



VILLAGE OF LINCOLNSHIRE

AGENDA COMMITTEE OF THE WHOLE Village Hall – Board Room Monday, April 27, 2020 Following Regular Village Board

RESIDENT REMOTE PARTICIPATION OPTIONS

- **View/Listen**

- Watch live on Cable Channel 10.
- Listen live via phone at 872-240-3212 (access code 154-595-365).
- Meeting videos posted to www.lincolnshireil.gov/government/about/agendas-minutes-packets-video the day after meeting.

- **Public Comment**

- Call 847-913-2312 to leave a voicemail message with your comment by 5:00 p.m. on Monday, April 27, 2020.
- Email your comment to VOLPublicComment@lincolnshireil.gov by 5:00 p.m. on Monday, April 27, 2020.
- Comments received before the meeting will be read concurrent with respective agenda item. Comments may be sent to the VOLPublicComment@lincolnshireil.gov email address during the meeting, but it is not guaranteed they will be read until the end of the meeting.

CALL TO ORDER

1.0 ROLL CALL

2.0 ITEMS OF GENERAL BUSINESS

2.1 Planning, Zoning and Land Use

- 2.11 Consideration of Approval of a Roof-Mounted Solar Panel Installation (301 Camberley Lane – Tesla, Inc.)

2.2 Finance and Administration

- 2.21 Discussion of 2020 Special Event Schedule and Consideration of Approval with Clowning Around Entertainment, Inc. / Celebration Authority for 2020 Special Event Rides and Attractions in the Amount of \$32,227 (Village of Lincolnshire)

2.3 Public Works

- 2.31 Discussion and Consideration of Direction to Proceed with Bidding for Various 2020 Capital Improvement Projects (Village of Lincolnshire)

2.4 Public Safety

2.5 Parks and Recreation

- 2.51 Consideration of Approval of a Contract with Graybar Inc., Arlington Heights, IL at a Cost not to Exceed \$86,941.06 for the North Park Lighting Replacement Project (Village of Lincolnshire)

2.52 Consideration of Approval of a Contract with Evans and Sons Blacktop, Inc. for Whytegate Athletic Court Resurfacing and Color Coating in an Amount not to Exceed \$105,000.00 (Village of Lincolnshire)

2.6 Judiciary and Personnel

3.0 **UNFINISHED BUSINESS**
4.0 **NEW BUSINESS**
5.0 **EXECUTIVE SESSION**
6.0 **ADJOURNMENT**

Reasonable accommodations / auxiliary aids will be provided to enable persons with disabilities to effectively participate in any public meetings of the Board. Please contact the Village Administrative Office (847-883-8600) 48 hours in advance if you need special accommodations to attend. The Committee of the Whole will not proceed past 10:30 p.m. unless there is a consensus of the majority of the Trustees to do so. Citizens wishing to address the Board on agenda items may speak when the agenda item is open, prior to Board discussion.



ITEM SUMMARY

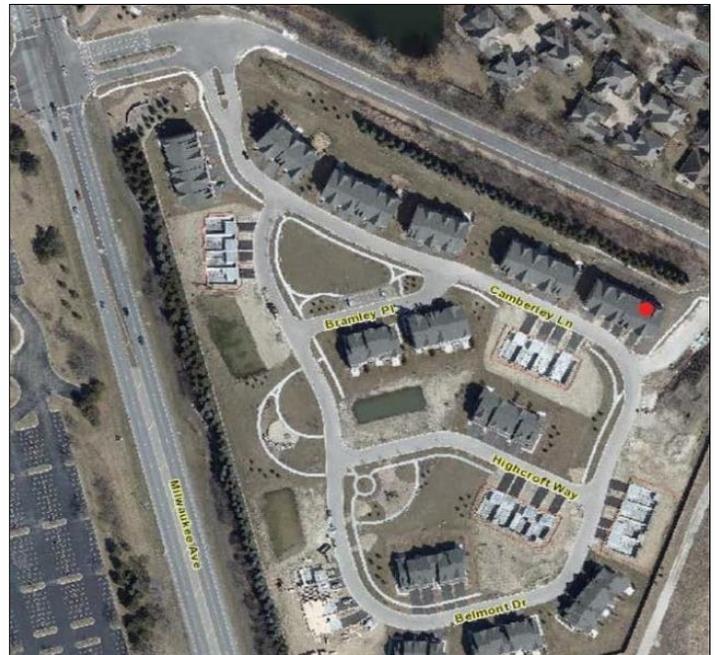
| | |
|---|--|
| Reviewing Body / Meeting Date: | Committee of the Whole – April 27, 2020 |
| Subject: | Solar Panel Installation |
| Action Requested (Address – Petitioner): | Approval of a Roof-Mounted Solar Panel Installation (301 Camberley Lane – Tesla, Inc) |
| Prepared By: | Tonya Zozulya - Planning & Development Manager Mike Jesse - Building Official |
| Staff Recommendation: | Approval of the Current Request and Direction to Staff regarding Code Amendments |
| Meeting History: | Architectural Review Board – April 20, 2020 |
| Tentative Meeting Schedule: | Regular Village Board – May 9, 2020 |
| Reports/Documents Attached: | 1) Location map 2) Petitioner’s presentation packet, submitted by Tesla, Inc., dated April 22, 2020 3) Unapproved April 21, 2020, ARB meeting minutes 4) Village code section 6-17-6 regarding solar energy systems |

Request Summary

Tesla, Inc., the petitioner, seeks to install roof-mounted solar panels at 301 Camberley Lane in the Camberley Club townhome subdivision. The property is marked with a red dot on Figure 1 and attached location map. The request is supported by Mr. Yassar Rivera, property owner, as well as the Camberley Club Homeowner’s Association.

In 2015, the Village Board granted a Special Use for a Planned Unit Development (PUD) to Pulte Homes for the development of an 86-unit townhome subdivision located on 20 acres along the east side of Milwaukee Avenue north of Sedgebrook (Ordinance No. 15-3378-105). In 2016, a Final Plat of Subdivision and Final Development Plan was approved (Ordinance No. 16-3391-118). In 2017, the Special Use was amended (Ordinance No. 17-3746-174) to revise the approved unit mix, resulting in a one-unit reduction for a total of 85 units. The subdivision construction was completed in 2019, with the majority of units occupied.

Figure 1: Location Map



Project Description

301 Camberley Lane is a corner unit within a 33’-tall, two-story, four-unit building in the northeast portion of the subdivision in the R4 Single-Family Attached zoning district. The proposal is to install 24 black, non-reflective thermally pre-stressed glass panels with anodized aluminum framing, covering approximately 24% of the front and back roof area (the code-permitted



maximum coverage is 50%). The proposed installation is designed to generate 7.56 kilowatts of solar power for the subject townhome only. Each panel is approximately 66" long and 40" wide. The existing asphalt roof color is dark gray. The panels are proposed to be installed flush to the roof surface and will be visible from the ground. In addition, there will be sufficient separation between the solar panels and the common wall as required by the International Residential Code.

This is the first R4-zoned solar proposal received by the Village (two recent solar applications were for Extra Space Storage and 444 Social Luxury Apartments which are both zoned B2 General Business). Solar panels on R4 properties require review/recommendation by the Architectural Review Board and final review/approval by the Village Board. Other residential requests received to date have been for single-family properties (these requests do not require Board reviews and approvals by [Village code section 6-17-6](#)).

In addition to R4, other zoning districts that require Board approval for solar panel installation include R5 Mixed-Use General Residence, B1 Retail Business, B2 General Business, E Small-Scale Office and O/I Office-Industrial. R6 Mixed-Use Estate district is also on the list; however, no properties currently have this designation.

In February 2020, staff submitted an application for SolSmart designation. SolSmart is a nationally-designated program funded by the U.S. Department of Energy, operating in partnership with the International City/County Management Association and the Solar Foundation. The SolSmart program awards ratings of bronze, silver, or gold to communities who demonstrate a commitment to be "open for solar business." Staff is confident a bronze rating is achievable with existing Village codes and processes. In light of the Village's participation in SolSmart, as well as broader trends and interest in solar energy, staff expects additional solar panel installation requests from residential and commercial properties.

[Village code section 6-17-6](#) regulates the approval process and installation of solar panels in the Village on properties zoned R4 Multi-Family Residential. Among other regulations, it states that "the installation method shall be compatible and harmonious with the aesthetic qualities of the structure to which the device is attached so as to not abruptly alter the architectural character of the structure." Staff has reviewed the proposal and determined it meets code requirements.

Should this request be approved and additional solar applications be received for this and other buildings in the subdivision, staff will encourage the property owners and the HOA to incorporate the same panel material, color, design and installation to ensure an aesthetically pleasing appearance throughout the residential development.

On April 21, 2020, the proposal was reviewed by the Architectural Review Board and received a unanimous favorable recommendation.

Approval Process

This proposal is subject to review and recommendation by the Architectural Review Board and final review and approval by the Village Board. No preliminary evaluation with the Village Board is required.

Staff Recommendation / Next Steps

Staff recommends approval of the 301 Camberley Lane solar installation request.

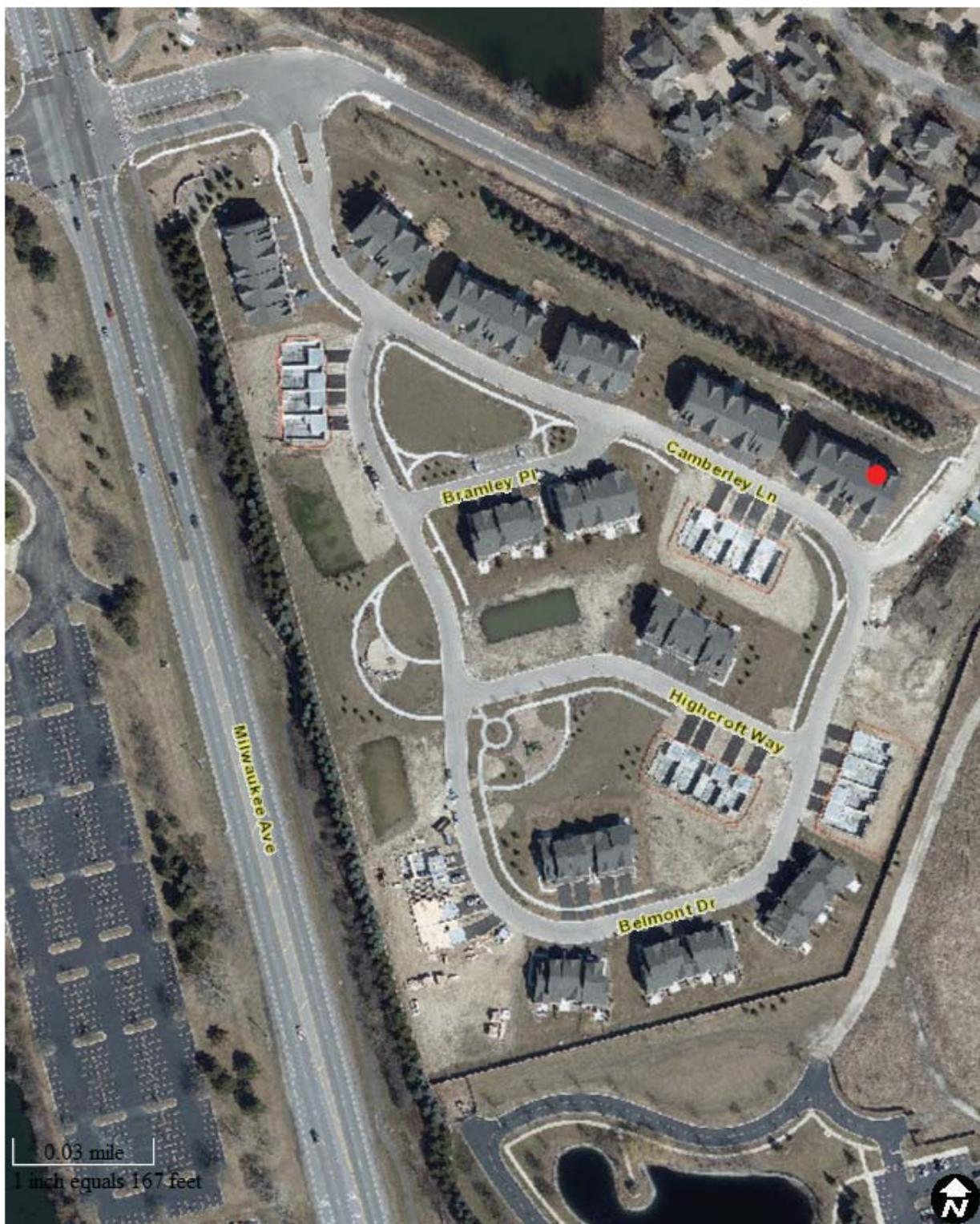
Additionally, given the increased frequency of residential and non-residential solar panel installation requests, and an increased desire for sustainable practices in the Village, staff seeks Village Board's direction regarding the following:



- 1) Should solar panel installations on R4 (attached residential), R5 (mixed-use residential), and all non-residential properties be reviewed/approved (note: HOA approvals will continue to be required regardless of the approval track):
 - By the ARB and the Village Board (this is the current process);
 - By the ARB only; or
 - Permitted by-right (i.e., staff can approve these requests so long as they meet code requirements)

- 2) Does the Board want to direct staff to undertake a comprehensive review of the Solar Code? Staff believes changes may be warranted regarding solar panel design and location, permit submittal requirements, and other regulations.

If the Board requests code changes, staff will prepare a draft code amendment for the Board's consideration and discussion before proceeding to the Zoning Board for a public hearing.



Map created on March 9, 2020.

© 2020 GIS Consortium and MGP Inc. All Rights Reserved.

The GIS Consortium and MGP Inc. are not liable for any use, misuse, modification or disclosure of any map provided under applicable law.

Disclaimer: This map is for general information purposes only. Although the information is believed to be generally accurate, errors may exist and the user should independently confirm for accuracy. The map does not constitute a regulatory determination and is not a base for engineering design. A Registered Land Surveyor should be consulted to determine precise location boundaries on the ground.



April 22, 2020

Mayor Elizabeth J. Brandt
Village Trustees
Village of Lincolnshire
1 Olde Half Day Rd
Lincolnshire, IL 60069

Re: Request for Approval from the Village Board for the installation of a solar PV array system on the roof of 301 Camberley Lane, Lincolnshire IL 60069 (the 'Project')

Dear Mayor Brandt & the Village Board:

We are delighted to present our request to add a solar PV array system on the roof of 301 Camberley Lane. We are proud to help this homeowner in their pursuit of creating a greener, more energy efficient and more socially and environmentally responsible home through the installation of a photovoltaic system. This system will help them offset their energy costs while moving towards a more sustainable future.

The proposal is to install 7.56 kilowatts of solar power. This equates to 24 solar panels. The panels are 66.3 in x 39.4 in x 1.57 in. The solar panels are black thermally pre-stressed glass with anti-reflection technology panels with black anodized aluminum framing (covering approximately 23.55% of the roof) to generate power that will help offset the homes energy cost.

The building roof color is a dark gray in color. The panels would be installed flush to the roofs surface. The panels will be visible from the ground, but with the dark color of the roof and panels as well as the flush mounting to the roof, it creates an aesthetically pleasing visual appearance that we hope that the ARB agrees with. Included in the packet is a photo shopped photo of what the panel array should look like after installation.

HOA approval was obtained for this home and a copy of it is included in this packet. We will also provide a material/color sample of the panel at the ARB meeting.

This project fits in with the current state sponsored dynamic of citizens and businesses creating their own clean energy onsite. The long term benefit will not only be to the environment but also create savings for local citizens and businesses through the reduction of energy costs.

All work will comply with local, state and federal jurisdiction building, electrical, fire codes, workplace safety codes, permits and any other applicable code or standard for the construction and operation of photovoltaic equipment. Any and all equipment

components specified are currently installed and in operation on thousands of sites across the United States.

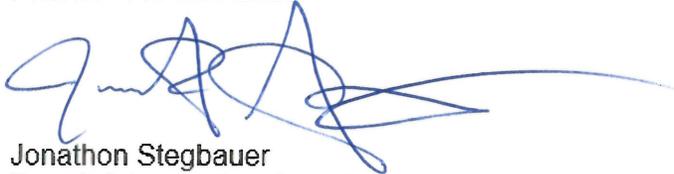
As of April 21, 2020, our project received a unanimous favorable recommendation from the Architectural Review Board post their review. Moreover, we look forward to presenting our project to the Village Board for your review, discussion, and hopefully approval to move forward with the permitting & installation of this project.

We greatly appreciate your time & consideration.

All the Best,



Les Gaynair
Permit Coordinator
Tesla, Inc. – ChicagoX
Email: LGaynair@tesla.com
Phone: 443-538-2958



Jonathon Stegbauer
Permit & Inspection Coordinator
Tesla, Inc. – ChicagoX
Email: JStegbauer@tesla.com
Phone: 630-427-5027



| ABBREVIATIONS | ELECTRICAL NOTES | JURISDICTION NOTES |
|---------------|------------------|--------------------|
|---------------|------------------|--------------------|

A AMPERE AC ALTERNATING CURRENT BLDG BUILDING CONC CONCRETE DC DIRECT CURRENT EGC EQUIPMENT GROUNDING CONDUCTOR (E) EXISTING EMT ELECTRICAL METALLIC TUBING FSB FIRE SET-BACK GALV GALVANIZED GEC GROUNDING ELECTRODE CONDUCTOR GND GROUND HDG HOT DIPPED GALVANIZED I CURRENT Imp CURRENT AT MAX POWER I_{sc} SHORT CIRCUIT CURRENT kVA KILOVOLT AMPERE kW KILOWATT LBW LOAD BEARING WALL MIN MINIMUM (N) NEW NEUT NEUTRAL NTS NOT TO SCALE OC ON CENTER PL PROPERTY LINE POI POINT OF INTERCONNECTION PV PHOTOVOLTAIC SCH SCHEDULE S STAINLESS STEEL STC STANDARD TESTING CONDITIONS TYP TYPICAL UPS UNINTERRUPTIBLE POWER SUPPLY V VOLT V_{mp} VOLTAGE AT MAX POWER V_{oc} VOLTAGE AT OPEN CIRCUIT W WATT 3R NEMA 3R, RAIN TIGHT

1. THIS SYSTEM IS GRID-INTERTIED VIA A UL-LISTED POWER-CONDITIONING INVERTER.
 2. THIS SYSTEM HAS NO BATTERIES, NO UPS.
 3. A NATIONALLY-RECOGNIZED TESTING LABORATORY SHALL LIST ALL EQUIPMENT IN COMPLIANCE WITH ART. 110.3.
 4. WHERE ALL TERMINALS OF THE DISCONNECTING MEANS MAY BE ENERGIZED IN THE OPEN POSITION, A SIGN WILL BE PROVIDED WARNING OF THE HAZARDS PER ART. 690.17.
 5. EACH UNGROUNDED CONDUCTOR OF THE MULTIWIRE BRANCH CIRCUIT WILL BE IDENTIFIED BY PHASE AND SYSTEM PER ART. 210.5.
 6. CIRCUITS OVER 250V TO GROUND SHALL COMPLY WITH ART. 250.97, 250.92(B).
 7. DC CONDUCTORS EITHER DO NOT ENTER BUILDING OR ARE RUN IN METALLIC RACEWAYS OR ENCLOSURES TO THE FIRST ACCESSIBLE DC DISCONNECTING MEANS PER ART. 690.31(E).
 8. ALL WIRES SHALL BE PROVIDED WITH STRAIN RELIEF AT ALL ENTRY INTO BOXES AS REQUIRED BY UL LISTING.
 9. MODULE FRAMES SHALL BE GROUNDED AT THE UL-LISTED LOCATION PROVIDED BY THE MANUFACTURER USING UL LISTED GROUNDING HARDWARE.
 10. MODULE FRAMES, RAIL, AND POSTS SHALL BE BONDED WITH EQUIPMENT GROUND CONDUCTORS.

JURISDICTION NOTES

LICENSE

GENERAL NOTES

MODULE GROUNDING METHOD: ZEP SOLAR
 AHJ: Lincolnshire village
 UTILITY: Commonwealth Edison Co (ComEd)

1. ALL WORK SHALL COMPLY WITH THE 2018 IBC AND 2018 IRC. 2. ALL ELECTRICAL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRIC CODE.

VICINITY MAP



INDEX

| | |
|--------------------|---------------------|
| Sheet 1 | COVER SHEET |
| Sheet 2 | PROPERTY PLAN |
| Sheet 3 | SITE PLAN |
| Sheet 4 | STRUCTURAL VIEWS |
| Sheet 5 | UPLIFT CALCULATIONS |
| Sheet 6 | THREE LINE DIAGRAM |
| Sheet 7 | ELECTRICAL PANELS |
| Sheet 8 | ELEVATION PHOTOS |
| Sheet 9 | EQUIPMENT ELEVATION |
| Cutsheets Attached | |

| REV | BY | DATE | COMMENTS |
|-------|------|------|----------|
| REV A | NAME | DATE | COMMENTS |
| * | * | * | * |
| * | * | * | * |
| * | * | * | * |
| * | * | * | * |

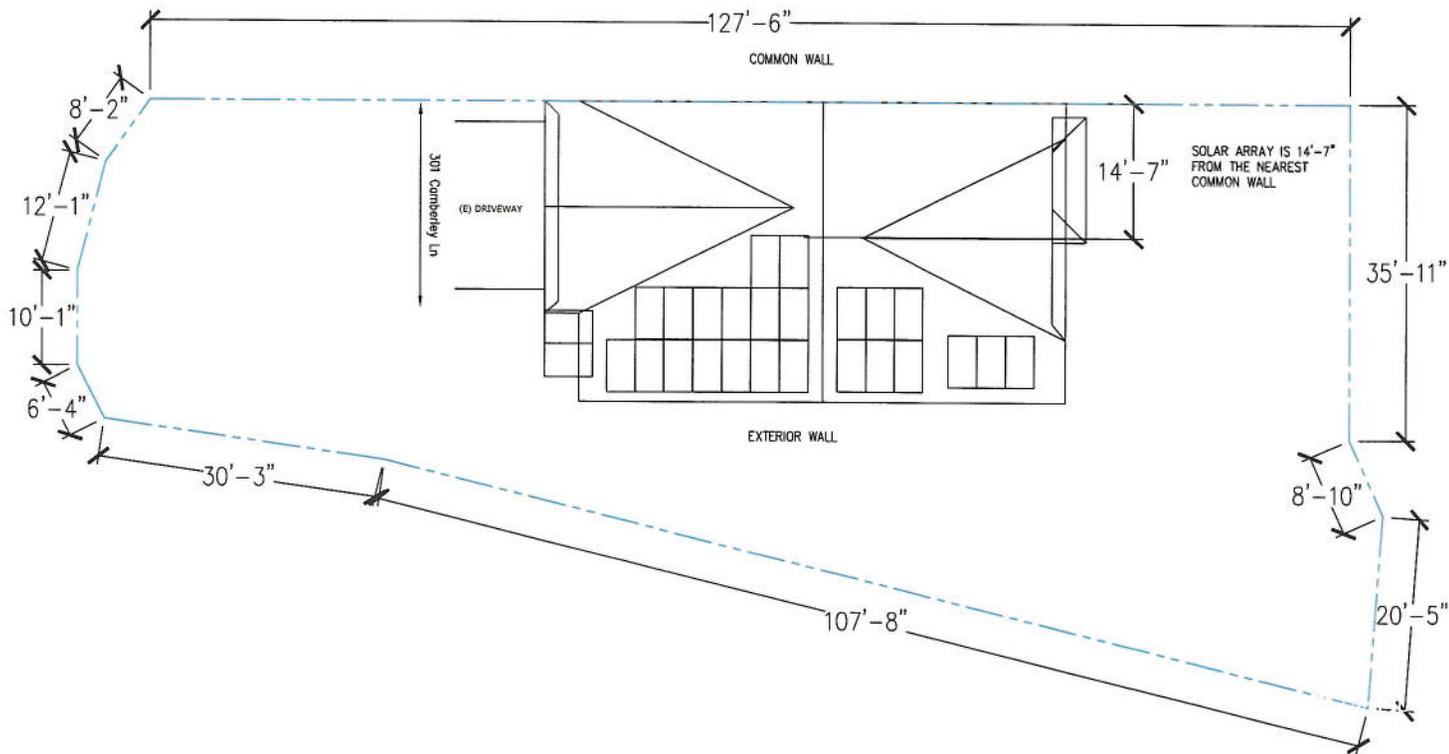
CONFIDENTIAL - THE INFORMATION HEREIN CONTAINED SHALL NOT BE USED FOR THE BENEFIT OF ANYONE EXCEPT TESLA INC., NOR SHALL IT BE DISCLOSED IN WHOLE OR IN PART TO OTHERS OUTSIDE THE RECIPIENT'S ORGANIZATION, EXCEPT IN CONNECTION WITH THE SALE AND USE OF THE RESPECTIVE TESLA EQUIPMENT, WITHOUT THE WRITTEN PERMISSION OF TESLA INC.

JOB NUMBER: JB-600552 00
 MOUNTING SYSTEM: ZS Comp V4 w Flashing-Insert
 MODULES: (24) Hanwha Q CELLS # Q.PEAK DUO BLK-G5/SC315
 INVERTER: SolarEdge Technologies Ltd. # SE7600H-US [240V]

CUSTOMER: Yasser Rivera
 301 Camberley Ln
 Lincolnshire, IL 60069
 (224)622-8886

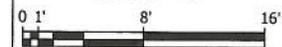
DESCRIPTION: 7.56 KW PV ARRAY
 PAGE NAME: COVER SHEET

DESIGN: Hendrik Van Veen
 SHEET: 1 REV: a DATE: 2/5/2020



SITE PLAN

Scale: 1/8" = 1'



CONFIDENTIAL - THE INFORMATION HEREIN CONTAINED SHALL NOT BE USED FOR THE BENEFIT OF ANYONE EXCEPT TESLA INC., NOR SHALL IT BE DISCLOSED IN WHOLE OR IN PART TO OTHERS OUTSIDE THE RECIPIENT'S ORGANIZATION, EXCEPT IN CONNECTION WITH THE SALE AND USE OF THE RESPECTIVE TESLA EQUIPMENT, WITHOUT THE WRITTEN PERMISSION OF TESLA INC.

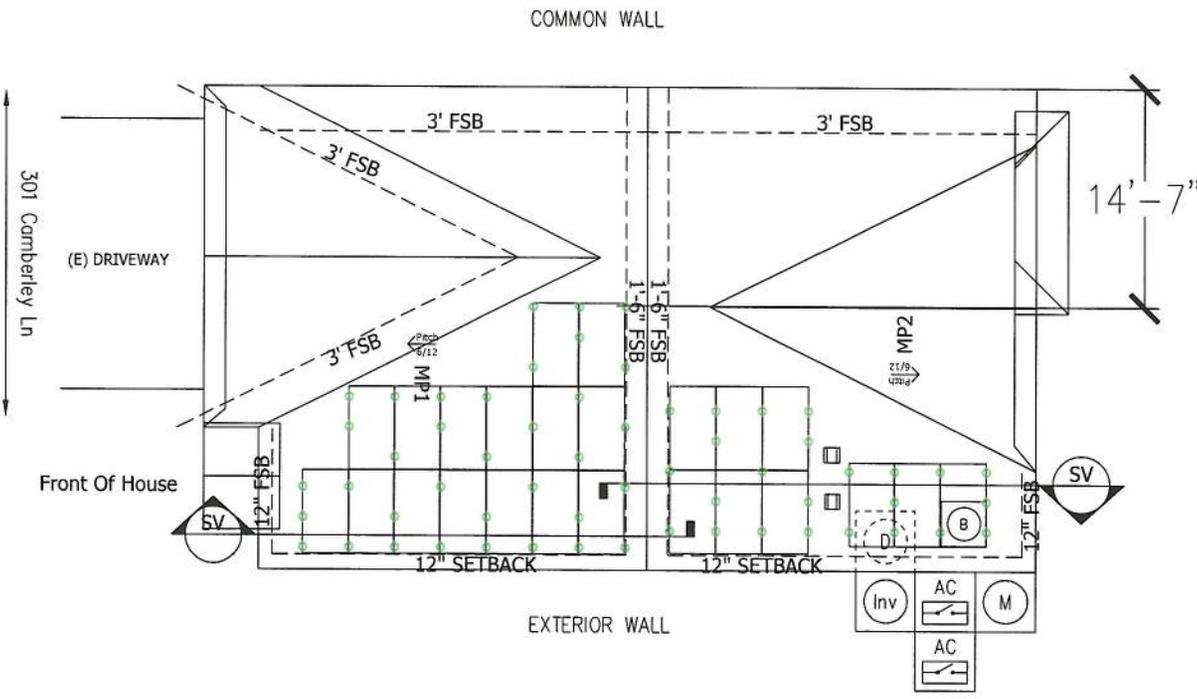
JOB NUMBER: JB-600552 00
 MOUNTING SYSTEM: ZS Comp V4 w Flashing-Insert
 MODULES: (24) Hanwha Q CELLS # Q.PEAK DUO BLK-G5/SC315
 INVERTER: SolarEdge Technologies Ltd. # SE7600H-US [240V]

CUSTOMER: Yasser Rivera
 301 Camberley Ln
 Lincolnshire, IL 60069
 (224)622-8886

DESCRIPTION: 7.56 KW PV ARRAY
 PAGE NAME: PROPERTY PLAN

DESIGNER: Hendrik Van Veen
 SHEET: 2 REV. DATE: a 2/5/2020

| | | |
|-----|---|---|
| MP1 | PITCH: 23 AZIMUTH: 206 MATERIAL: Comp Shingle | ARRAY PITCH: 23 ARRAY AZIMUTH: 206 STORY: 2 Stories |
| MP2 | PITCH: 23 AZIMUTH: 26 MATERIAL: Comp Shingle | ARRAY PITCH: 23 ARRAY AZIMUTH: 26 STORY: 2 Stories |



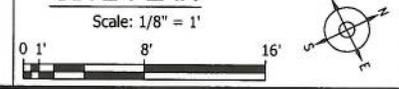
SOLAR ARRAY IS 14'-7"
FROM THE NEAREST
COMMON WALL

LEGEND

- (E) UTILITY METER & WARNING LABEL
- INVERTER W/ INTEGRATED DC DISCO & WARNING LABELS
- DC DISCONNECT & WARNING LABELS
- AC DISCONNECT & WARNING LABELS
- DC JUNCTION/COMBINER BOX & LABELS
- DISTRIBUTION PANEL & LABELS
- LOAD CENTER & WARNING LABELS
- DEDICATED PV SYSTEM METER
- RAPID SHUTDOWN
- STANDOFF LOCATIONS
- CONDUIT RUN ON EXTERIOR
- CONDUIT RUN ON INTERIOR
- GATE/FENCE
- HEAT PRODUCING VENTS ARE RED
- INTERIOR EQUIPMENT IS DASHED

SITE PLAN

TOTAL ARRAY AREA (SF): 444
TOTAL ROOF AREA (SF): 1886
TOTAL ARRAY AREA IS ≈ 23.55
PERCENT OF TOTAL ROOF AREA



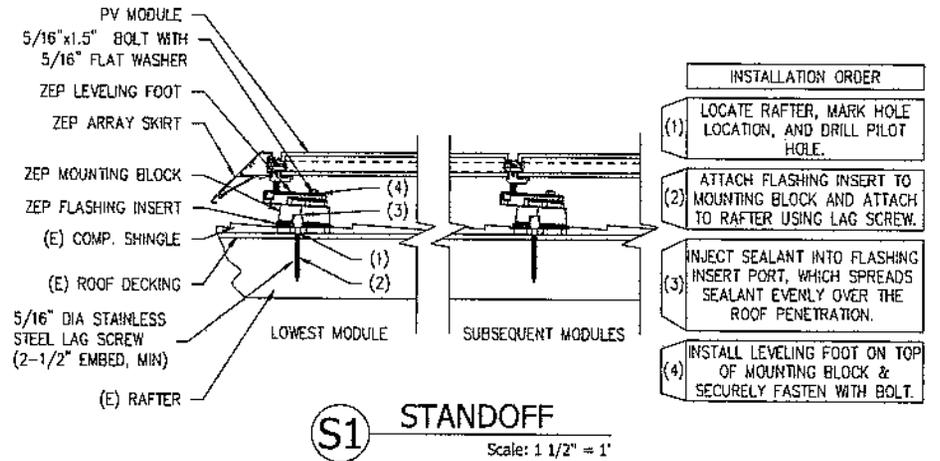
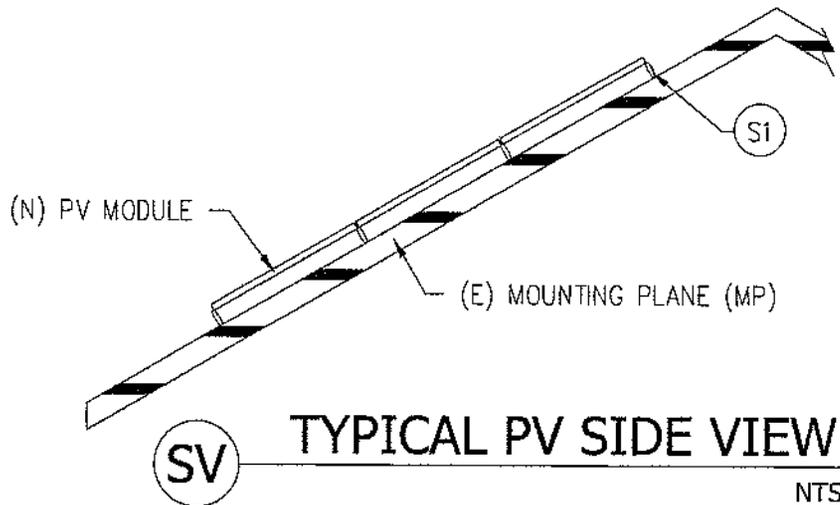
CONFIDENTIAL - THE INFORMATION HEREIN CONTAINED SHALL NOT BE USED FOR THE BENEFIT OF ANYONE EXCEPT TESLA INC., NOR SHALL IT BE DISCLOSED IN WHOLE OR IN PART TO OTHERS OUTSIDE THE RECIPIENT'S ORGANIZATION, EXCEPT IN CONNECTION WITH THE SALE AND USE OF THE RESPECTIVE TESLA EQUIPMENT, WITHOUT THE WRITTEN PERMISSION OF TESLA INC.

JOB NUMBER: JB-600552 00
MOUNTING SYSTEM:
ZS Comp V4 w Flashing-Insert
MODULES:
(24) Hanwha Q CELLS # Q.PEAK DUO BLK-G5/SC315
INVERTER:
SolarEdge Technologies Ltd. # SE7600H-US [240V]

CUSTOMER:
Yasser Rivera
301 Camberley Ln
Lincolnshire, IL 60069
(224)622-8886

DESCRIPTION:
7.56 KW PV ARRAY
PAGE NAME:
SITE PLAN

DESIGN:
Hendrik Van Veen
SHEET: 3
REV: a
DATE: 2/5/2020



01.06.2020
Version #80.6
Job# JB-600552-00

DESIGN SUMMARY

| Jobsite Specific Design Criteria | | | |
|----------------------------------|-------|-----------|--------------|
| Design Code | | ASCE 7-16 | |
| Ground Elevation Factor | | 1.0 | Table 26.5-1 |
| Ultimate Wind Speed | Ke | 107 mph | Fig. 26.5-1B |
| Exposure Category | V-Lit | C | Section 26.7 |
| Ground Snow Load | pg | 30.0 psf | Table 7-1 |

| MP Specific Design Information | | | |
|--------------------------------|----------------|--|--|
| MP Name | MP1 & MP2 | | |
| Roofing | Comp Roof | | |
| Standoff | Comp Mount SRV | | |
| Pitch | 23° | | |
| SL/RL: PV | 20.8 psf | | |
| SL/RL: Non-PV | 20.8 psf | | |

| Standoff Spacing and Layout | | | |
|-----------------------------|-----------|--|--|
| MP Name | MP1 & MP2 | | |
| X-Spacing | 48" | | |
| X-Cantilever | 22" | | |
| Y-Spacing | 38" | | |
| Y-Cantilever | NA | | |
| X-Spacing | 24" | | |
| X-Cantilever | 13" | | |
| Y-Spacing | 65" | | |
| Y-Cantilever | NA | | |
| Layout | Staggered | | |

X and Y are maximums that are always relative to the structure framing that supports the PV. X is across rafters and Y is along rafters.

CONFIDENTIAL - THE INFORMATION HEREIN CONTAINED SHALL NOT BE USED FOR THE BENEFIT OF ANYONE EXCEPT TESLA INC., NOR SHALL IT BE DISCLOSED IN WHOLE OR IN PART TO OTHERS OUTSIDE THE RECIPIENT'S ORGANIZATION, EXCEPT IN CONNECTION WITH THE SALE AND USE OF THE RESPECTIVE TESLA EQUIPMENT, WITHOUT THE WRITTEN PERMISSION OF TESLA INC.

JOB NUMBER: JB-600552 00
MOUNTING SYSTEM: ZS Comp V4 w Flashing-Insert
MODULES: (24) Hanwha Q CELLS # Q-PEAK DUO BLK-G5/SC315
INVERTER: SolarEdge Technologies Ltd. # SE7600H-US [240V]

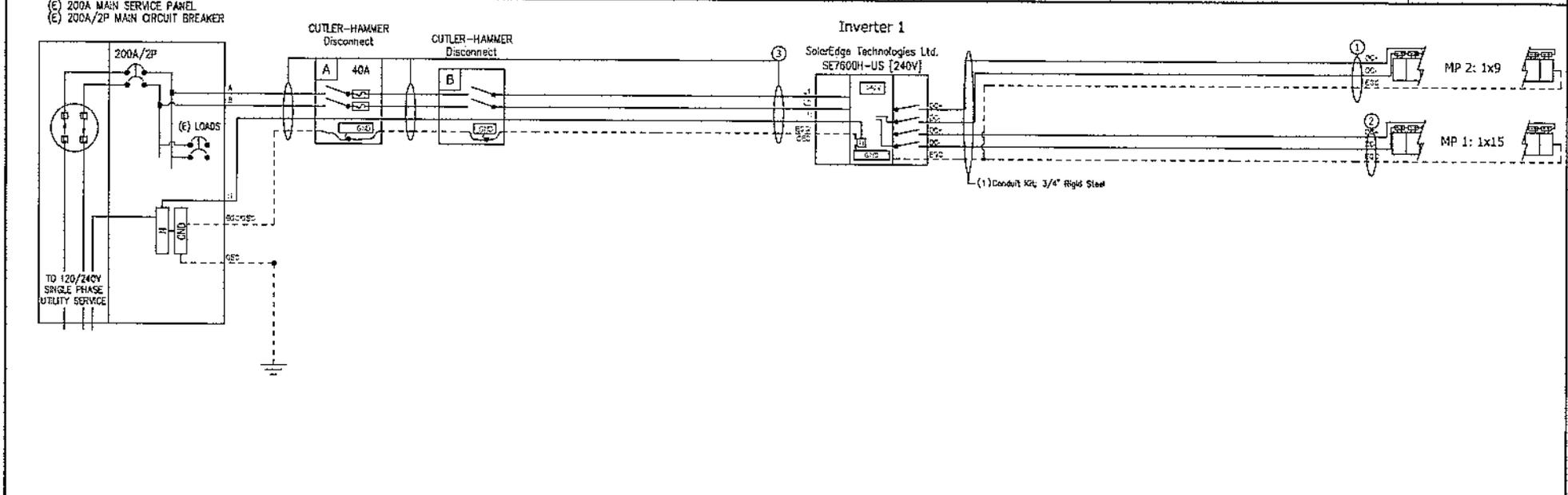
CUSTOMER: Yasser Rivera
301 Camberley Ln
Lincolnshire, IL 60069
(224)622-8886

DESCRIPTION: 7.56 KW PV ARRAY
DATE: 2/5/2020
SHEET: 4
REV: a

DESIGNER: Hendrik Van Veen
DATE: 2/5/2020

PROJECT NAME: STRUCTURAL VIEWS

| GROUND SPECS | MAIN PANEL SPECS | GENERAL NOTES | INVERTER SPECS | MODULE SPECS | LICENSE |
|--|--|---|-------------------------|--|---------|
| BOND (H) #5 GEC TO (H) GROUND ROD AT PANEL WITH IRREVERSIBLE CRIMP | Panel Number: NoMatch Meter Number: 273372843 Underground Service Entrance | Inv 1: DC Ungrounded Tie-In: Load Side Tap | INV 1 INV 2 INV 3 | (1) SolarEdge Technologies Ltd. # SE7600H-US [240V] Inverter: 7600W, 240V/208V, 95% Eff, 48mm, Unified Disc and 23, RDM, AFD Voc: 40.29 Vpmax: 33.46 Isc AND Imp ARE SHOWN IN THE DC STRINGS IDENTIFIER | |



| AC | DC |
|---|---|
| <p>POI (1) Ground Rod 5/8" x 6', Copper (2) 1/2" EGC #10, 1/2" - #5 Insulation: Flashing Connector: Main 1/2"-4, Top 5"-14</p> <p>LIST LOAD SIDE TAP, DISCONNECTING MEANS SHALL BE PER NEC.</p> <p>A (1) CUTLER-HAMMER # DC222R88 Disconnect: 60A, 240Vac, Fusible, NEMA 3R (1) CUTLER-HAMMER # DC180B8 Ground/Neutral Kit: 60-100A, General Duty (DG) (1) CUTLER-HAMMER # DS16X6 Class R Fuse Kit (2) FEDERAL SHAMMUT # TR490 PV Backfeed OCP Fuses: 40A, 250V, Class RK5</p> <p>B (1) CUTLER-HAMMER # DC222R88 Disconnect: 60A, 240Vac, Non-Fusible, NEMA 3R (1) CUTLER-HAMMER # DC180B8 Ground/Neutral Kit: 60-100A, General Duty (DG)</p> <p>3 (1) AWG #8, THWN-2, Black (1) AWG #8, THWN-2, Red (1) AWG #10, THWN-2, White NEUTRAL Vmp = 240 VAC Imp = 32 AAC (1) AWG #8, THWN-2, Green EGC/GEC - (1) Conduit Kit: 3/4" Rigid Steel</p> | <p>PV (2) SOLAREGE # P400-80W40M PowerBox Optimizer: 400W, 2P</p> <p>1 (2) AWG #10, PV Wire, 600V, Black Voc = 500 VDC Isc = 15 ADC (1) AWG #10, THHN/THWN-2, Green EGC Vmp = 350 VDC Imp = 7.99 ADC (1) Conduit Kit: 3/4" Rigid Steel</p> <p>2 (2) AWG #10, PV Wire, 600V, Black Voc = 500 VDC Isc = 15 ADC (1) AWG #10, THHN/THWN-2, Green EGC Vmp = 350 VDC Imp = 13.32 ADC (1) Conduit Kit: 3/4" Rigid Steel</p> |

| | | | | |
|---|---|--|---|---|
| <p>CONFIDENTIAL - THE INFORMATION HEREIN CONTAINED SHALL NOT BE USED FOR THE BENEFIT OF ANYONE EXCEPT TESLA INC. NOR SHALL IT BE DISCLOSED OR WHOLE OR IN PART TO OTHERS OUTSIDE THE REQUIREMENT'S ORGANIZATION, EXCEPT IN CONNECTION WITH THE SALE AND USE OF THE RESPECTIVE TESLA EQUIPMENT, WITHOUT THE WRITTEN PERMISSION OF TESLA INC.</p> | <p>JOB NUMBER: JB-600552 00</p> <p>WOUNDING SYSTEM: ZS Comp V4 w Flashing-Insert</p> <p>MODULES: (24) Hanwha Q CELLS # Q.PEAK DUO BLK-G5/SC315</p> <p>INVERTER: SolarEdge Technologies Ltd. # SE7600H-US [240V]</p> | <p>CUSTOMER: Yasser Rivera 301 Camberley Ln Lincolnshire, IL 60069 (224)622-8886</p> | <p>DESCRIPTION: 7.56 KW PV ARRAY</p> <p>PAGE NAME: THREE LINE DIAGRAM</p> | <p>DESIGNER: Hendrik Van Veen</p> <p>SHEET: 6 REV: a DATE: 2/5/2020</p> |
|---|---|--|---|---|



CONFIDENTIAL - THE INFORMATION HEREIN CONTAINED SHALL NOT BE USED FOR THE BENEFIT OF ANYONE EXCEPT TESLA INC., NOR SHALL IT BE DISCLOSED IN WHOLE OR IN PART TO OTHERS OUTSIDE THE RECIPIENT'S ORGANIZATION, EXCEPT IN CONNECTION WITH THE SALE AND USE OF THE RESPECTIVE TESLA EQUIPMENT, WITHOUT THE WRITTEN PERMISSION OF TESLA INC.

JOB NUMBER: JB-600552 00
 MOUNTING SYSTEM: ZS Comp V4 w Flashing-Insert
 MODULES: (24) Hanwha Q CELLS # Q.PEAK DUO BLK-G5/SC315
 INVERTER: SolarEdge Technologies Ltd. # SE7600H-US [240V]

CUSTOMER: Yasser Rivera
 301 Camberley Ln
 Lincolnshire, IL 60069
 (224)622-8886

DESCRIPTION: 7.56 KW PV ARRAY
 PAGE NAME: ELECTRICAL PANELS

DESIGN: Hendrik Van Veen
 SHEET: 7 REV: DATE: a 2/5/2020



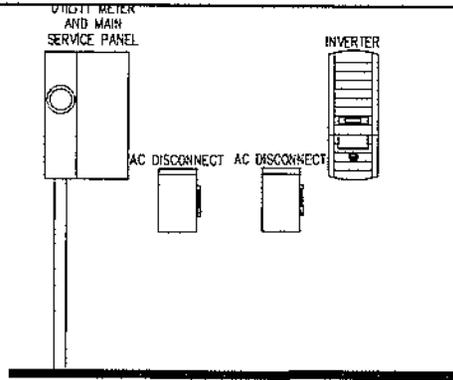
CONFIDENTIAL - THE INFORMATION HEREIN CONTAINED SHALL NOT BE USED FOR THE BENEFIT OF ANYONE EXCEPT TESLA INC., NOR SHALL IT BE DISCLOSED IN WHOLE OR IN PART TO OTHERS OUTSIDE THE RECIPIENT'S ORGANIZATION, EXCEPT IN CONNECTION WITH THE SALE AND USE OF THE RESPECTIVE TESLA EQUIPMENT, WITHOUT THE WRITTEN PERMISSION OF TESLA INC.

JOB NUMBER: JB-600552 00
 MOUNTING SYSTEM: ZS Comp V4 w Flashing-Insert
 MODULES: (24) Hanwha Q CELLS # Q.PEAK DUO BLK-G5/SC315
 INVERTER: SolarEdge Technologies Ltd. # SE7600H-US [240V]

CUSTOMER: Yasser Rivera
 301 Camberley Ln
 Lincolnshire, IL 60069
 (224)622-8886

DESCRIPTION: 7.56 KW PV ARRAY
 PAGE NAME: ELEVATION PHOTOS

DESIGN: Hendrik Van Veen
 SHEET: 8 REV. DATE: a 2/5/2020



E1 EXTERIOR EQUIPMENT ELEVATION NTS



E1 INTERIOR EQUIPMENT ELEVATION NTS

CONFIDENTIAL - THE INFORMATION HEREIN CONTAINED SHALL NOT BE USED FOR THE BENEFIT OF ANYONE EXCEPT TESLA INC., NOR SHALL IT BE DISCLOSED IN WHOLE OR IN PART TO OTHERS OUTSIDE THE RESPONDENT'S ORGANIZATION, EXCEPT IN CONNECTION WITH THE SALE AND USE OF THE RESPECTIVE TESLA EQUIPMENT, WITHOUT THE WRITTEN PERMISSION OF TESLA INC.

JOB NUMBER: JB-600552 00

Mounting System:
Z5 Comp V4 w Flashing-Insert

Modules:
(24) Hanwha Q CELLS # Q.PEAK DUO BLK-G5/SC315

INVERTER:
SolarEdge Technologies Ltd. # SE7600H-US [240V]

CUSTOMER:
Yasser Rivera
301 Camberley Ln
Lincolnshire, IL 60069

(224)622-8886

DESCRIPTION:
7.56 KW PV ARRAY

PAGE NAME:
EQUIPMENT ELEVATION

DESIGNER:
Hendrik Van Veen

SHEET: 9 REV: a DATE: 2/5/2020

WARNING PHOTOVOLTAIC POWER SOURCE

Label Location:
(C)(CB)(JB)
Per Code:
NEC 690.31.G.3

PHOTOVOLTAIC DC
DISCONNECT

Label Location:
(DC) (INV)
Per Code:
NEC 690.14.C.2

MAXIMUM POWER-
POINT CURRENT (Imp) A
MAXIMUM POWER-
POINT VOLTAGE (Vmp) V
MAXIMUM SYSTEM
VOLTAGE (Voc) V
SHORT-CIRCUIT
CURRENT (Isc) A

Label Location:
(DC) (INV)
Per Code:
NEC 690.53

WARNING

ELECTRIC SHOCK HAZARD
IF A GROUND FAULT IS INDICATED
NORMALLY GROUNDED
CONDUCTORS MAY BE
UNGROUND AND ENERGIZED

Label Location:
(DC) (INV)
Per Code:
NEC 690.5(C)

WARNING

ELECTRICAL SHOCK HAZARD
DO NOT TOUCH TERMINALS
TERMINALS ON BOTH LINE AND
LOAD SIDES MAY BE ENERGIZED
IN THE OPEN POSITION
DC VOLTAGE IS
ALWAYS PRESENT WHEN
SOLAR MODULES ARE
EXPOSED TO SUNLIGHT

Label Location:
(DC) (CB)
Per Code:
NEC 690.17(4)

PHOTOVOLTAIC AC
DISCONNECT

Label Location:
(AC) (POI)
Per Code:
NEC 690.14.C.2

MAXIMUM AC
OPERATING CURRENT A
MAXIMUM AC
OPERATING VOLTAGE V

Label Location:
(AC) (POI)
Per Code:
NEC 690.54

WARNING

ELECTRIC SHOCK HAZARD
DO NOT TOUCH TERMINALS
TERMINALS ON BOTH LINE AND
LOAD SIDES MAY BE ENERGIZED
IN THE OPEN POSITION

Label Location:
(AC)(POI)
Per Code:
690.13.B

WARNING

ELECTRIC SHOCK HAZARD
THE DC CONDUCTORS OF THIS
PHOTOVOLTAIC SYSTEM ARE
UNGROUND AND
MAY BE ENERGIZED

Label Location:
(DC) (INV)
Per Code:
NEC 690.35(F)
TO BE USED WHEN
INVERTER IS
UNGROUND

PHOTOVOLTAIC POINT OF
INTERCONNECTION
WARNING: ELECTRIC SHOCK
HAZARD. DO NOT TOUCH
TERMINALS. TERMINALS ON
BOTH THE LINE AND LOAD SIDE
MAY BE ENERGIZED IN THE OPEN
POSITION. FOR SERVICE
DE-ENERGIZE BOTH SOURCE
AND MAIN BREAKER
PV POWER SOURCE
MAXIMUM AC
OPERATING CURRENT A
MAXIMUM AC
OPERATING VOLTAGE V

Label Location:
(POI)
Per Code:
NEC 690.17.4; NEC 690.54

CAUTION

DUAL POWER SOURCE
SECOND SOURCE IS
PHOTOVOLTAIC SYSTEM

Label Location:
(POI)
Per Code:
NEC 690.64.B.4

CAUTION

PHOTOVOLTAIC SYSTEM
CIRCUIT IS BACKFED

Label Location:
(D) (POI)
Per Code:
NEC 690.64.B.4

WARNING

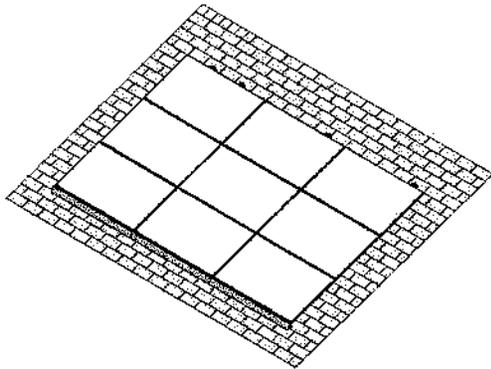
INVERTER OUTPUT
CONNECTION
DO NOT RELOCATE
THIS OVERCURRENT
DEVICE

Label Location:
(POI)
Per Code:
NEC 690.64.B.7

(AC): AC Disconnect
(C): Conduit
(CB): Combiner Box
(D): Distribution Panel
(DC): DC Disconnect
(IC): Interior Run Conduit
(INV): Inverter With Integrated DC Disconnect
(LC): Load Center
(M): Utility Meter
(POI): Point of Interconnection

Label Set

ZS Comp
for composition shingle roofs



Description

- PV mounting solution for composition shingle roofs
- Works with all Zep Compatible Modules
- Auto bonding UL-listed hardware creates structural and electrical bond
- ZS Comp has a UL 1703 Class "A" Fire Rating when installed using modules from any manufacturer certified as "Type 1" or "Type 2"

Specifications

- Designed for pitched roofs
- Installs in portrait and landscape orientations
- ZS Comp supports module wind uplift and snow load pressures to 50 psf per UL 2703
- Wind tunnel report to ASCE 7-05 and 7-10 standards
- ZS Comp grounding products are UL listed to UL 2703 and UL 487
- ZS Comp bonding products are UL listed to UL 2703
- Engineered for spans up to 72" and cantilevers up to 24"
- Zep wire management products listed to UL 1585 for wire positioning devices

zepsolar.com

This document does not create any express warranty by Zep Solar or about its products or services. Zep Solar's sole warranty is contained in the written product warranty for each product. The end-user documentation shipped with Zep Solar's products constitutes the sole specifications referred to in the product warranty. The customer is solely responsible for verifying the suitability of Zep Solar's products for each use. Specifications are subject to change without notice. Patents and Apps. zepsolar.com

Document # 800-1839-001 Rev. D

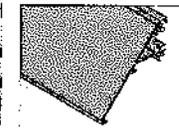
Date last updated: Apr 28, 2016 11:22 AM

Components



Mounting Block

Part No. 850-1633
Listed to UL 2703



Array Skirt

Part No. 850-1608 or 850-0113
Listed to UL 2703



Interlock

Part No. 850-1388 or 850-1613
Listed to UL 2703



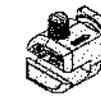
Flashing Insert

Part No. 850-1628
Listed to UL 2703



Grip

Part No. 850-1608 or 850-1421
Listed to UL 2703



Ground Zep V2

Part No. 850-1511
Listed to UL 467 and UL 2703



Captured Washer Lag

Part No. 850-1631-001
850-1631-002
850-1631-003
850-1631-004



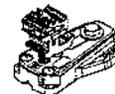
End Cap

Part No.
(L) 850-1588 or 850-1460
(R) 850-1589 or 850-1497



DC Wire Clip

Part No. 850-1509
Listed to UL 1585



Leveling Foot

Part No. 850-1397
Listed to UL 2703

zepsolar.com

This document does not create any express warranty by Zep Solar or about its products or services. Zep Solar's sole warranty is contained in the written product warranty for each product. The end-user documentation shipped with Zep Solar's products constitutes the sole specifications referred to in the product warranty. The customer is solely responsible for verifying the suitability of Zep Solar's products for each use. Specifications are subject to change without notice. Patents and Apps. zepsolar.com

Document # 800-1839-001 Rev. D

Date last updated: April 28, 2016 11:22 AM



SolarEdge Power Optimizer - Zep Compatible™ Module Add-On For North America P300-ZEP, P400-ZEP



POWER OPTIMIZER

Compatible with Zep Groove framed modules

- Certified Zep Compatible™ bracket
- Attaches to module frame without screws - reduces on-roof labor and mounting costs
- Power optimizer equipment grounded through the bracket
- Up to 25% more energy
- Superior efficiency (99.5%)
- Mitigates all types of module mismatch losses, from manufacturing tolerance to partial shading
- Flexible system design for maximum space utilization
- Next generation maintenance with module-level monitoring
- Module-level voltage shutdown for installer and firefighter safety

USA | CANADA | GERMANY | ITALY | FRANCE | JAPAN | CHINA | AUSTRALIA | THE NETHERLANDS | UK | ISRAEL | TURKEY | HUNGARY | BELGIUM | ROMANIA | BULGARIA

www.solar-edge.us



SolarEdge Power Optimizer - Zep Compatible™ Module Add-On For North America P400-ZEP

| | P300-ZEP (for 60-cell PV modules) | P400-ZEP (for 72 & 96-cell modules) | |
|---|--|-------------------------------------|---------|
| INPUT | | | |
| Rated Input DC power ^{II} | 300 | 400 | W |
| Absolute Maximum Input Voltage (Voc at lowest temperature) | 48 | 80 | Vdc |
| MPPT Operating Range | 8 - 48 | 8-80 | Vdc |
| Maximum Short Circuit Current (Isc) | 10 | 10.1 | Adc |
| Maximum DC Input Current | 12.5 | 12.63 | Adc |
| Maximum Efficiency | | 99.5 | % |
| Weighted Efficiency | | 98.8 | % |
| Overvoltage Category | II | | |
| OUTPUT DURING OPERATION (POWER OPTIMIZER CONNECTED TO OPERATING INVERTER) | | | |
| Maximum Output Current | | 15 | Adc |
| Maximum Output Voltage | | 60 | Vdc |
| OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM INVERTER OR INVERTER OFF) | | | |
| Safety Output Voltage per Power Optimizer | | 1 | Vdc |
| STANDARD COMPLIANCE | | | |
| EMC | FCC Part15 Class B, IEC61000-6-2, IEC61000-6-3 | | |
| Safety | IEC62109-1 (class II safety), UL1741 | | |
| RoHS | Yes | | |
| INSTALLATION SPECIFICATIONS | | | |
| Maximum Allowed System Voltage | 1000 | | Vdc |
| Dimensions including mounting bracket (WxLxH) | 128 x 196 x 27.5 / 5 x 7.71 x 1.08 | 128 x 196 x 35 / 5 x 7.71 x 1.37 | mm / in |
| Dimensions excluding mounting bracket (WxLxH) | 128 x 152 x 27.5 / 5 x 5.97 x 1.08 | 128 x 152 x 35 / 5 x 5.97 x 1.37 | mm / in |
| Weight (including cables and mounting bracket) | 720 / 1.6 | 840 / 1.9 | kg / lb |
| Input Connector | MC4 Compatible | | |
| Output Connector | Double Insulated; MC4 Compatible | | |
| Output Wire Length | 0.95 / 3.0 | 1.2 / 3.9 | m / ft |
| Operating Temperature Range | -40 - +85 / -40 - +185 | | °C / °F |
| Protection Rating | IP68 / NEMA 6P | | |
| Relative Humidity | 0 - 100 | | % |

^{II}Rated STC power of the module. Module of up to 41% power tolerance allowed.

| PV SYSTEM DESIGN USING A SOLAREEDGE INVERTER ²¹ | SINGLE PHASE HD-WAVE | SINGLE PHASE | THREE PHASE 208V | THREE PHASE 480V | |
|--|-----------------------------|--------------|------------------|------------------|---|
| Minimum String Length (Power Optimizers) | 8 | | 10 | 18 | |
| Maximum String Length (Power Optimizers) | 25 | | 25 | 50 | |
| Maximum Power per String | 5700 (6000 with SE7600H-US) | 5250 | 6000 | 12750 | W |
| Parallel Strings of Different Lengths or Orientations | Yes | | | | |

²¹ For detailed string length information refer to http://www.solar-edge.com/sites/default/files/string_length.pdf



© 2014 Solar Edge. All rights reserved. SOLAREEDGE, the Solar Edge logo, OPTIMIZED BY SOLAREEDGE, and Zep Compatible are registered trademarks of SolarEdge Technologies, Inc. All other trademarks mentioned herein are the property of their respective owners. Solar, the Solar logo, and SolarEdge are registered trademarks of SolarEdge Technologies, Inc.



SolarEdge Single Phase Inverters

for North America

SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US /
SE7600H-US / SE10000H-US / SE11400H-US



INVERTERS

Optimized installation with HD-Wave technology

- Specifically designed to work with power optimizers
- Record-breaking efficiency
- Fixed voltage inverter for longer strings
- Integrated arc fault protection and rapid shutdown for NEC 2014 and 2017, per article 690.11 and 690.12
- UL1741 SA certified, for CPUC Rule 21 grid compliance
- Extremely small
- High reliability without any electrolytic capacitors
- Built-in module-level monitoring
- Outdoor and indoor installation
- Optional: Revenue grade data, ANSI C12.20 Class 0.5 (0.5% accuracy)
- Simple configuration and commissioning with smartphone app and built in Wi-Fi (SE10000H-US, SE11400H-US)



USA-CANADA-GERMANY-ITALY-THE NETHERLANDS-JAPAN-CHINA-AUSTRALIA-ISRAEL-FRANCE-BELGIUM-TURKEY-INDIA-BULGARIA-ROMANIA-HUNGARY-SWEDEN-SOUTH AFRICA-POLAND-CZECH REPUBLIC

www.solaredge.us



Single Phase Inverters for North America

SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US / SE7600H-US /
SE10000H-US / SE11400H-US

| | SE3000H-US | SE3800H-US | SE5000H-US | SE6000H-US | SE7600H-US | SE10000H-US | SE11400H-US | |
|---|---|----------------------------|-------------|---------------------------------|--|-------------|-------------|-----|
| OUTPUT | | | | | | | | |
| Rated AC Power Output | 3000 | 3800 @ 240V 3300 @ 208V | 5000 | 6000 | 7600 | 10000 | 11400 | VA |
| Max. AC Power Output | 3000 | 3800 @ 240V 3300 @ 208V | 5000 | 6000 | 7600 | 10000 | 11400 | VA |
| AC Output Voltage Min.-Nom.-Max. (183 - 208 - 229) | - | ✓ | ✓ | - | - | - | - | Vac |
| AC Output Voltage Min.-Nom.-Max. (211 - 240 - 264) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | Vac |
| AC Frequency (Nominal) | - | - | - | 59.3 - 60 - 60.5 ⁽¹⁾ | - | - | - | Hz |
| Maximum Continuous Output Current 208V | - | 16 | 24 | - | - | - | - | A |
| Maximum Continuous Output Current 240V | 12.5 | 16 | 21 | 25 | 32 | 42 | 47.5 | A |
| GFDI Threshold | - | - | - | 1 | - | - | - | A |
| Utility Monitoring, Islanding Protection, Country Configurable Thresholds | - | - | - | Yes | - | - | - | |
| INPUT | | | | | | | | |
| Maximum DC Power | 4650 | 5900 | 7750 | 9300 | 11800 | 15500 | 17670 | W |
| Transformer-less, Ungrounded Maximum Input Voltage | - | - | - | 480 | - | - | - | Vdc |
| Nominal DC Input Voltage | - | 380 | - | - | - | 400 | - | Vdc |
| Maximum Input Current 208V | - | 9 | 13.5 | - | - | - | - | Adc |
| Maximum Input Current 240V | 8.5 | 10.5 | 13.5 | 16.5 | 20 | 27 | 30.5 | Adc |
| Max. Input Short Circuit Current | - | - | - | 45 | - | - | - | Adc |
| Reverse-Polarity Protection | - | - | - | Yes | - | - | - | |
| Ground-Fault Isolation Detection | - | - | - | 600k Ω Sensitivity | - | - | - | |
| Maximum Inverter Efficiency | 99 | - | - | 99 | 99.2 | - | - | % |
| CEC Weighted Efficiency | - | - | - | 99 | - | - | - | % |
| Nighttime Power Consumption | - | - | - | < 2.5 | - | - | - | W |
| ADDITIONAL FEATURES | | | | | | | | |
| Supported Communication Interfaces | RS485, Ethernet, ZigBee (optional), Cellular (optional) | | | | | | | |
| Revenue Grade Data, ANSI C12.20 | Optional ⁽²⁾ | | | | | | | |
| Rapid Shutdown - NEC 2014 and 2017 690.12 | Automatic Rapid Shutdown upon AC Grid Disconnect | | | | | | | |
| STANDARD COMPLIANCE | | | | | | | | |
| Safety | UL1741, UL1741 SA, UL1699B, CSA C22.2, Canadian AFCEI according to T.I.L. M-07 | | | | | | | |
| Grid Connection Standards | IEEE1547, Rule 21, Rule 14 (HI) | | | | | | | |
| Emissions | FCC Part 15 Class B | | | | | | | |
| INSTALLATION SPECIFICATIONS | | | | | | | | |
| AC Output Conduit Size / AWG | 3/4" minimum / 20-4 AWG | | | | | | | |
| Range | 3/4" minimum / 1-2 strings / 14-6 AWG | | | | | | | |
| DC Input Conduit Size / # of Strings / AWG Range | 3/4" minimum / 1-2 strings / 14-6 AWG | | | | 3/4" minimum / 1-3 strings / 14-6 AWG | | | |
| Dimensions with Safety Switch (HxWxD) | 17.7 x 14.6 x 6.8 / 450 x 370 x 174 | | | | 21.3 x 14.6 x 7.7 / 540 x 370 x 195 | | | |
| Weight with Safety Switch | 22 / 10 | | 25.1 / 11.4 | | 26.2 / 11.9 | | 37.0 x 185 | |
| Noise | < 25 | | | | 38.8 / 17.6 | | | |
| Cooling | Natural Convection | | | | Natural convection and internal fan (user replaceable) | | | |
| Operating Temperature Range | -13 to +140 / -25 to +60 ⁽³⁾ (-40 ⁽⁴⁾ / -40 ⁽⁵⁾ option) ⁽⁶⁾ | | | | | | | |
| Protection Rating | NEMA 3R (inverter with Safety Switch) | | | | | | | |

⁽¹⁾ For other regional settings please contact SolarEdge support

⁽²⁾ Revenue grade inverter (R/G) SE3000H-US/SE3800H-US

⁽³⁾ For power derating information refer to: <https://www.solaredge.com/sites/default/files/temperature-derating-note-us.pdf>

⁽⁴⁾ All version (R/G) SE3000H-US/SE3800H-US

⁽⁵⁾ All version (R/G) SE3000H-US/SE3800H-US



© 2018 SolarEdge Technologies, Inc. All rights reserved. SOLAREDGE, the SolarEdge logo, and other trademarks or registered trademarks of SolarEdge Technologies, Inc. All other trademarks contained herein are the trademarks of their respective owners. Date: 12/2017/011-091-NA0. Subject to change without notice.

powered by
Q.ANTUM DUO

Q.PEAK DUO BLK-G5/SC 310-320

Q.ANTUM SOLAR MODULE

The new **Q.PEAK DUO BLK-G5/SC** solar module from Q CELLS impresses thanks to innovative **Q.ANTUM DUO** Technology, which enables particularly high performance on a small surface, and a black Zep Compatible™ frame design for improved aesthetics, easy installation and increased safety. **Q.ANTUM**'s world-record-holding cell concept has now been combined with state-of-the-art circuitry half cells and a six-busbar design, thus achieving outstanding performance under real conditions - both with low-intensity solar radiation as well as on hot, clear summer days.



Q.ANTUM TECHNOLOGY: LOW LEVELIZED COST OF ELECTRICITY

Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 19.3%.



INNOVATIVE ALL-WEATHER TECHNOLOGY

Optimal yields, whatever the weather with excellent low-light and temperature behavior.



ENDURING HIGH PERFORMANCE

Long-term yield security with Anti LID and Anti PID Technology¹, Hot-Spot Protect and Traceable Quality Tra.Q™.



EXTREME WEATHER RATING

High-tech aluminum alloy frame, certified for high snow (5400 Pa) and wind loads (4000 Pa) regarding IEC.



A RELIABLE INVESTMENT

Inclusive 12-year product warranty and 25-year linear performance guarantee².



STATE OF THE ART MODULE TECHNOLOGY

Q.ANTUM DUO combines cutting edge cell separation and innovative wiring with Q.ANTUM Technology.

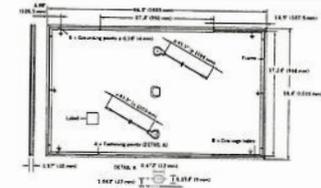
THE IDEAL SOLUTION FOR:



A¹T test conditions according to IEC/TS 62804-1:2015, module B (-1500W, 168 °C)
See data sheet on rear for further information.

MECHANICAL SPECIFICATION

| | |
|---------------------|---|
| Format | 66.3 in × 39.4 in × 1.57 in (including frame) (1685 mm × 1000 mm × 40 mm) |
| Weight | 44.5 lbs (20.2 kg) |
| Front Cover | 0.13 in (3.2 mm) thermally pre-stressed glass with anti-reflection technology |
| Back Cover | Composite film |
| Frame | Black anodized aluminum |
| Cell | 6 × 20 monocrystalline Q.ANTUM solar half-cells |
| Junction box | 2.76 × 3.25 in × 1.37-2.76 in × 0.51-0.83 in (70-85 mm × 50-70 mm × 13-21 mm), decentralized, IP67 |
| Cable | 4 mm ² Solar cable: (+) ≥ 43.3 in (1100 mm), (-) ≥ 45.3 in (1150 mm) |
| Connector | Multi-Contact MC4, IPE8 |

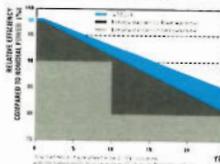


ELECTRICAL CHARACTERISTICS

| POWER CLASS | | 310 | 315 | 320 |
|---|----------------------------|--------|--------|--------|
| MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC¹ (POWER TOLERANCE +5W / -0W) | | | | |
| Power at MPP² | P_{MPP} [W] | 310 | 315 | 320 |
| Short Circuit Current | I_{sc} [A] | 9.83 | 9.89 | 9.94 |
| Open Circuit Voltage | V_{oc} [V] | 40.02 | 40.29 | 40.56 |
| Current at MPP | I_{MPP} [A] | 9.36 | 9.41 | 9.47 |
| Voltage at MPP² | V_{MPP} [V] | 33.12 | 33.46 | 33.80 |
| Efficiency³ | η [%] | ≥ 18.4 | ≥ 18.7 | ≥ 19.0 |
| MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NOCT⁴ | | | | |
| Power at MPP² | P_{MPP} [W] | 229.7 | 233.5 | 237.2 |
| Short Circuit Current | I_{sc} [A] | 7.93 | 7.97 | 8.02 |
| Open Circuit Voltage | V_{oc} [V] | 37.43 | 37.69 | 37.94 |
| Current at MPP | I_{MPP} [A] | 7.36 | 7.41 | 7.45 |
| Voltage at MPP² | V_{MPP} [V] | 31.20 | 31.52 | 31.84 |

1000W/m², 25 °C, spectrum AM 1.5G ¹ Measurement tolerances STC ± 3%, NOC ± 5% ² 800W/m², NOCT spectrum AM 1.5G ³ Typical values, actual values may differ

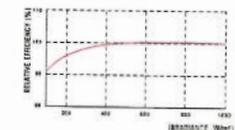
Q CELLS PERFORMANCE WARRANTY



At least 28% of nominal power during first year, thereafter max. 0.5% degradation per year.
At least 23.1% of nominal power up to 10 years.
At least 19.5% of nominal power up to 25 years.

All data within measurement tolerances. Full warranty as in accordance with the warranty terms of the Q CELLS sales agreement of your respective country.

PERFORMANCE AT LOW IRRADIANCE



Typical module performance is for the standard conditions in comparison to STC conditions (75 °C, 1000 W/m²).

TEMPERATURE COEFFICIENTS

| | | | | | |
|---|----------------|-------|--|------------------|-----------------------|
| Temperature Coefficient of I_{sc} | α [%/K] | +0.04 | Temperature Coefficient of V_{oc} | β [%/K] | -0.28 |
| Temperature Coefficient of P_{MPP} | γ [%/K] | -0.37 | Normal Operating Cell Temperature | NOCT [°F] | 113 ± 5.4 (45 ± 3 °C) |

PROPERTIES FOR SYSTEM DESIGN

| | | | | |
|--|------------------------|------------------------|--|--|
| Maximum System Voltage V_{MV} | [V] | 1000 (IEC) / 1000 (UL) | Safety Class | II |
| Maximum Series Fuse Rating | [A DC] | 20 | Fire Rating | C (IEC) / TYPE 1 (UL) |
| Design load, push [UL]² | [lbs/ft ²] | 50 (2400 Pa) | Permitted module temperature in continuous duty | -40 °F up to +185 °F (-40 °C up to +85 °C) |
| Design load, pull [UL]² | [lbs/ft ²] | 50 (2400 Pa) | ¹ see installation manual | |

QUALIFICATIONS AND CERTIFICATES

UL 1703, CE, compliance I, IEC 61215, IEC 61730 (d.d. 1), application class A



PACKAGING INFORMATION

| | |
|--|--|
| Number of Modules per Pallet | 26 |
| Number of Pallets per 53' Trailer | 32 |
| Number of Pallets per 40' High Cube Container | 26 |
| Pallet Dimensions (L x W x H) | 69.3 in × 45.3 in × 45.9 in (1760 mm × 1150 mm × 1190 mm) |
| Pallet Weight | 1268 lbs (575 kg) |

NOTE: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.

Hanwa Q CELLS America Inc.
300 Spectrum Center Drive, Suite 1250, Irvine, CA 92618, USA | TEL: +1 949 748 53 95 | EMAIL: inquiry@us.q-cells.com | WEB: www.q-cells.com

Engineered in Germany

Q CELLS

Manager for SpringHill Suites, was present. PDM Zozulya asked the ARB if they wanted to consider the request. Chair Kennerley asked Ms. Carvajal if she was comfortable representing the petitioner. Ms. Carvajal responded she was not comfortable and requested this item be continued to the next ARB meeting in May.

It was the consensus of the ARB to defer discussion until the next regularly-scheduled ARB meeting.

3.2 Consideration of a Roof-Mounted Solar Panel Installation (301 Camberley Lane – Tesla, Inc.)

PDM Zozulya gave an overview of the project, stating the four-unit townhome is located in the Camberley Club development in the R4 attached residential zoning district. The existing roof is dark gray and the proposed panels are black, occupying 24% of the roof area. She noted the proposal meets all code requirements and staff recommends approval. PDM Zozulya said following the ARB's review, the project will proceed to the Village Board for final review and approval.

Mr. Les Gaynair and Mr. Jonathon Stegbauer with Tesla, Inc., the petitioner, provided project details and stated the panels will have a flush design and will not be visually obtrusive to neighbors.

Member McCall requested clarification regarding the solar panel orientation. Mr. Les Gaynair responded it is on the east side of the house facing northeast and southeast and will receive a significant amount of sunlight.

Member Santosuosso inquired whether the panels are being placed on the existing roof or if a new roof is being installed. Mr. Stegbauer stated the roof is less than five years old and is capable of withholding the mounting system. The solar panel warranty offered by Tesla to the homeowner is for 20 years.

Member Baskin expressed his support for the project.

Member Orzeske inquired about the roof warranty and who will be responsible for addressing any future issues. Mr. Stegbauer stated it would be Tesla's responsibility, and they had not seen failures over last two years after 400 installs.

Chair Kennerley inquired whether the previous installs have included a combination of older and newer roofs. Mr. Stegbauer stated different roofs have been used; however, Tesla reserves the right to reject roofs older than 15 years old as they would not be able to guarantee proper seals for solar projects.

Chair Kennerley asked whether Tesla will become Camberley Club HOA's preferred solar vendor for additional panel installations for other townhomes. Mr. Stegbauer stated there will be open competition and the HOA will not have to retain Tesla for future projects, unless homeowners choose to contract with Tesla.

Member McCall moved, seconded by Member Baskin, to recommend approval to the Village Board the roof-mounted solar panels for 301 Camberley Lane as presented in the petitioner’s presentation packet, with the cover letter dated March 9, 2020.

AYES: McCall, Santosuosso, Baskin, Orzeske and Kennerley

NAYS: None

ABSENT: Killedar, Tapia

ABSTAIN: None

Chair Kennerley declared the motion carried.

3.3 Consideration of Site and Building Design, Landscaping, and Lighting for a 106,400-Square-Foot Building Addition (1-3 Stevenson Drive – Adlai E. Stevenson High School District 125)

Assistant Village Manager/Community & Economic Development Director Gilbertson (“AVM/CEDD Gilbertson”) stated Adlai E. Stevenson High School District 125 (“D125”) seeks review of site and building design, landscaping, and lighting for a 106,400-square-foot building addition requiring a major amendment to a special use.

AVM/CEDD Gilbertson summarized previous additions to the school campus. He added the Village Board was receptive of the proposal during the January 13, 2020, Committee of the Whole meeting; however, the Village Board requested D125 focus on enhanced landscaping and balance of green space. AVM/CEDD Gilbertson stated the Zoning Board provided a unanimous favorable recommendation during their March 10, 2020, meeting for the major amendment to the special use along with several variances. The Zoning Board also requested D125 provide additional information to the Village Board on parking circulation improvements throughout the campus.

AVM/CEDD Gilbertson also summarized the utility improvements related to the addition, indicating the use of solar panels will be part of the addition. He noted the architectural elements of the Phase II addition will complement the existing building. AVM/CEDD Gilbertson indicated staff believes D125 has met the Village Board’s request to incorporate a proper balance of landscaping and green space concurrent with the building addition. He also summarized the proposed and existing lighting. In closing, AVM/CEDD Gilbertson stated depending on the ARB’s recommendation, the matter will be referred to the Village Board in late April for final approvals, with construction anticipated to begin in May 2020.

Sean Carney, Assistant Superintendent of Business, Adlai E. Stevenson High School District 125, presented an overview of the addition, stating D125 anticipates student enrollment growth in the next several years as a result of multiple residential developments within the district as well as the current student enrollment in the feeder schools. Mr. Carney stated D125 officials are constantly updating their demographics, but did not anticipate the growth to occur as early as is projected. As a result of these projections, staff has begun the process to add more non-traditional classroom space to include additional physical education, social and emotional space for students, and multi-use co-curricular space. He noted as part of this addition and renovation, utility

b. A wildlife study shall be conducted by a qualified professional not in the employ of the Applicant, such as an ornithologist or wildlife biologist, to determine if there is any potential impact the SWES may present to migratory birds and wildlife species. In cases where the wildlife study indicates that a protected natural resource will be adversely affected by an SWES, the Village shall consult with the Illinois Department of Natural Resources (IDNR), in accordance with Title 17 of the Illinois Administrative Code Part 1075, to determine whether the protective measures outlined in the study are deemed acceptable. A final decision on the application shall not be made until such consultation with IDNR is resolved.

G. **COMPLIANCE:** Every SWES must maintain compliance with the plans and specifications approved by the Village Board of Trustees. If a SWES becomes non-compliant with approved plans and specifications due to, but not limited to: discoloration, cracking, missing components, rusting, settling, damage or general disrepair; then the owner/operator of the SWES and the owner of the building or lot on which the SWES is located will be jointly and severally responsible for remedying the specific non-conformities. These non-conformities must be remedied within forty-five (45) days after receipt of written notice sent by the Village to the owner/operator of the SWES and the owner of the building or lot. Failure to remedy all of the cited non-conformities, within the forty-five (45) day time period, shall be punishable by a fine not exceeding the amount described per day that the violation continues, pursuant to Chapter 4 of Title 1 of the Village Code.

H. **ENGINEERING CERTIFICATION:** No SWES may be located within the Village unless the Applicant has provided to the Village the written certification of a professional engineer licensed by the State of Illinois that the structure upon which the facility is located is sufficient from a structure engineering standpoint to bear the load. In instances of free-standing structures, this shall include a certificate that the foundation on which the structure is built, is constructed and engineered to take into account the existing soil conditions. A licensed professional engineer shall also certify that in the event of a fall or collapse, that the facility is designed and manufactured to fall entirely within the boundary lines of the lot on which it is located, and that installation meets or exceeds the maximum construction and installation standards set forth by the manufacturer.

6-17-6: SOLAR ENERGY SYSTEMS (SES)

- A. GENERAL REGULATIONS: A Solar Energy System (SES), as referenced in Section 6-17-2, may be erected or installed only in accordance with this Title 6, Chapter 17 of the Village Code. Any SES shall conform to all Federal laws and regulations concerning its use and operation, and may be installed only in the following zoning districts and standards:
1. Shall be permitted in the R1, R2, R2A, and R3 Zoning Districts. Any attached single-family residential development and mixed-use development which contains residential housing units shall require review by the Architectural Review Board prior to being approved or denied by the Village Board.
 2. Shall be permitted in the R4, R5, R6, B1, B2, E, and O/I Zoning Districts, subject to review by the Architectural Review Board prior to being approved or denied by the Village Board.
- B. PERMITS: No such Solar Energy System (SES), as referenced in Section 6-17-2, shall be erected, constructed, altered or relocated without first obtaining a building permit from the Department of Community Development. An application for a building permit shall be made upon forms provided by the Department of Community Development, signed by the Applicant, and contain or have attached thereto the following information:
1. Name of person, firm, corporation or association constructing and erecting the solar energy system.
 2. Site plan showing the location of the solar energy system upon the lot and copies of the manufacturer's specification for the solar energy system.
 3. Name, address, and telephone number of the applicant, and the name of a responsible party in the case of corporate applications.
 4. Written consent of the owner of the building structure or land on which the solar energy system is to be erected.
 5. Elevation(s) of the existing structural improvements and the proposed solar energy system showing the size and design details.
 6. Four (4) sets of plans and specifications showing the method of construction, location, support, and attachment to the structure.
 7. If required by the Department of Community Development, a copy of stress sheets and calculations prepared by a licensed professional

engineer showing that the solar energy system is designed for the deadload, in the amount required by the manufacturer and all other laws and ordinances of the Village.

8. A line drawing of the electrical components, as supplied by the manufacturer, in sufficient detail to allow for a determination that the manner of installation conforms to the Village Code.
9. Such other information that the Department of Community Development shall require to show full compliance with this and all other ordinances of the Village.

C. PLACEMENT OF SES:

1. Shall be limited to roof-mounted installations on a permitted structure, provided that the installation method shall be compatible and harmonious with the aesthetic qualities of the structure to which the device is attached so as to not abruptly alter the architectural character of the structure.
 - a. Shall be attached directly to the exterior of the roof structure to ensure the lowest profile permissible. All components of the SES shall not extend above the maximum building height permitted by the zoning district and beyond the existing limits of the roof.
 - c. No component of the SES, including mounting racks, shall be permitted to tilt or rotate at a slope greater or less than the roof to which the device is attached.
 - d. Shall be designed and installed to prohibit Sun Reflection towards vehicular traffic and any habitable portion of an adjacent structure. Sun Reflection onto an adjacent roof shall be acceptable.
 - e. Shall occupy not more than fifty-percent (50%) of the outside roof area to which the device is attached. If an SES is installed on multiple roofs on a single structure, the SES shall occupy not more than thirty-percent (30%) of each outside roof area to which the device is attached.
 - f. With the exception of Solar Panels, mounting racks, pipe runs, and electrical wire connections, no portion of an SES shall be installed on the outside of the roof.

- g. No trees or vegetation shall be removed or pruned to reduce or eliminate shading from the sun, unless warranted for good forestry practices, as determined by the Village Forester.

6-17-7: DECOMMISSIONING AND RESTORATION PLAN:

- A. **MICRO WIND ENERGY SYSTEMS (MWES) AND SOLAR ENERGY SYSTEMS (SES):** When a MWES or SES is not operated for a continuous period of at least nine (9) months, such Alternative Energy Collection System and all related equipment shall be deemed abandoned by the Village. The owner of such Alternative Energy Collection System shall remove all items within forty-five (45) days following receipt of written notification that removal is required. Such notice shall be sent by registered or certified mail, return receipt requested, by the Village to such owner at the last known address of such owner. A principal structure or lot for sale, lease, or in foreclosure may be exempt, provided that the MWES and/or SES are maintained pursuant to this Title 6, Chapter 17 of the Village Code.
- B. **SMALL WIND ENERGY SYSTEM (SWES)**
 - 1. Prior to receiving a Special Use Permit for the installation of a SWES, the owner and/or operator must include a Decommissioning and Restoration Plan with the application request to ensure such Alternative Energy Collection System and all related equipment is properly decommissioned. The owner of the SWES and the underlying property owner(s) shall be jointly liable for the removal of all equipment associated with the SWES at the end of the Special Use permit period, if any, the useful life of the facility, or when the facility is abandoned or otherwise out of operation for continuous period of at least nine (9) months. The Decommissioning and Restoration Plan shall state how the facility will be decommissioned and how the site will be restored, and shall further provide:
 - a. Provisions for removal of the SWES and all related equipment, including those below the soil surface.
 - b. Provisions for the restoration of the property and improvements upon completion of the decommissioning of the Alternative Energy Collection System and all related equipment.



ITEM SUMMARY

| | |
|---|---|
| Reviewing Body / Meeting Date: | Committee of the Whole – April 27, 2020 |
| Subject: | Special Events Rides and Attractions Contract |
| Action Requested (Address – Petitioner): | Discussion of 2020 Special Events Schedule and Approval of a Contract with Clowning Around Entertainment, Inc. / Celebration Authority for 2020 Special Event Rides and Attractions in the Amount of \$32,227 (Village of Lincolnshire) |
| Prepared By: | Ben Gilbertson – Assistant Village Manager/Community & Economic Development Director |
| Staff Recommendation: | Direction to staff regarding 2020 special event planning. Potential approval of the contract. |
| Budgeted Amount: | \$39,500 |
| Actual Amount: | \$32,227 |
| Level of Service Impact: | N/A |
| Meeting History: | N/A |
| Tentative Meeting Schedule: | Regular Village Board – May 11, 2020 |
| Reports / Documents Attached: | 1) Draft contract 2) 2020 special event schedule |

Request Summary

Staff began planning for the 2020 special events schedule in January of this year, with an emphasis on assessing and procuring equipment and vendors across all events simultaneously, rather than at different times throughout the year. This approach allows for improved communication with fewer vendors, reduced staff planning time, as well as competitive pricing. This is particularly important for rides and attractions (e.g., inflatables, carnival games), as multiple communities and organizations compete with one another for select equipment at various times throughout the year.

Staff worked with Clowning Around Entertainment, Inc. / Celebration Authority (“Clowning Around”) over the last two months to develop a rides and attractions package comparable to prior years. The Village has used Clowning Around for all of its major special events throughout the year (Red, White, & BOOM!, Heroes Night, and Boo Bash), but only for certain items. In 2020, Clowning Around will provide the majority of rides and attractions (additional contracts with other vendors may be executed on a case-by-case basis).

Staff has also discussed with Clowning Around the potential of needing to cancel one or more special events this year, in light of the uncertainty associated with COVID-19 and being able to assemble large groups of people. Should an event be canceled, Clowning Around has committed to crediting the Village’s account for future events, and these funds could be used at events later in 2020 or in 2021. Additionally, the cost of these contracts accounts for staffing of all rides and attractions which limits liability for the Village. Therefore, approval of the contract at this time poses little to no risk for the Village.

Staff also requests a discussion with the Village Board regarding special event planning for 2020. Many of the planning activities that typically take place at this time of year are on-hold as we await further direction from the Governor’s Office and public health agencies regarding large gatherings and summer



festivals. This delay impacts staff's ability to develop communication campaigns (e.g., summer newsletter). Staff understands the financial cost of executing on these events, including staff time and vendor contracts. For the Fiscal Year 2020 Budget, the Board approved an expense budget of \$107,000 for all special events (excluding staff time planning the events, overtime costs, and \$30,000 for 4th of July fireworks) compared to a revenue budget of \$53,800. Staff anticipate revenues will be down for all events this year due to a reduction in sponsorship related to the economy, as well as challenges securing food vendors (and corresponding shared revenue from those sales).

Staff also anticipates a reduction in public attendance due to the hesitancy to meet in large group settings. Neighboring communities have also announced event cancellations for financial reasons and/or uncertainty with the Stay-at-Home Order. Lastly, given the financial impact of the Stay-at-Home Order on various Village revenue streams, as well as indication from Governor Pritzker on April 9 regarding summer event cancellations, staff suggests Board consideration of possible postponement or cancellation of events for 2020.

Project Description

Not applicable.

Budget Impact

Clowning Around proposes a contract not to exceed \$32,227 in 2020. This is a savings of nearly \$7,300 over all rides and attractions contracts in 2019. Further budget impacts would be dictated by the Board's decision to cancel one or more special events this year.

Level of Service Impact

Not applicable.

Approval Process

The Village Board has complete authority to review and approve this contract.

Staff Recommendation / Next Steps

Staff requests direction from the Village Board regarding 2020 special event planning. Given the option to credit any funds to future events in the event of cancellations or postponements, staff recommends approval of the contract regardless of the Board's direction regarding special event planning for 2020.

**A CONTRACT BETWEEN THE VILLAGE OF LINCOLNSHIRE AND
CLOWNING AROUND ENTERTAINMENT, INC. / CELEBRATION AUTHORITY FOR A
2020 RIDES AND ATTRACTIONS PACKAGE**

Payment and Holdback

1. Payment Amount

- a. The Village of Lincolnshire ("Village") agrees to pay Clowning Around Entertainment, Inc. / Celebration Authority ("Clowning Around") an amount not to exceed \$32,227 to provide selected rides and attractions for the Village's special events including Red, White, & BOOM!, Heroes Night, and Boo Bash for 2020 (see attached).

2. Timing of Payments

- a. The Village pays invoices during the second and fourth weeks of each month following Village Board approval of bills. All invoices must be submitted for payment one week prior to each board meeting which generally fall on the second and fourth Mondays of each month. Invoices will be submitted for approval by the Village Board at each respective board meeting and payment will be made the following business day once approved.

General Contract Terms

1. Indemnification:

- a. To the fullest extent permitted by law, Clowning Around shall indemnify and hold harmless the Village and its officers, and agents and employees from and against claims, damages, losses, and expenses, including but not limited to attorney's fees, arising out of or resulting from performance of the work, provided that such claim, damages, losses and expenses, including but not limited to attorney's fees, arising out of or resulting from performance of the work, provided that such claim, damage, loss or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the work itself) including loss of use resulting therefrom, but only to the extent caused in whole or in part by negligent acts or omissions of Clowning Around, a subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, regardless of whether or not such claim, damage, loss or expense is caused in part by a party indemnified hereunder. Such obligation shall not be construed to negate, abridge or reduce other rights or obligations of indemnity which would otherwise exist as to party or person described in this paragraph 10.
- b. In claims against any person or entity indemnified under this paragraph by an employee of Clowning Around, a subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, the indemnification obligation under this paragraph shall not be limited by a limitation or amount or type of damages, compensation or benefits payable by or for Clowning Around or a subcontractor under worker's or workman's compensation acts, disability benefit acts or other employee benefit acts.

2. **Tax Exempt:** The Village of Lincolnshire is a tax exempt body. All purchases of materials subject to a sales or use tax shall be coordinated with the Village of Lincolnshire in order to claim this tax exempt status.

3. **Delays, Extensions of Time, and Event Cancellations:** The Village and Clowning Around desire flexibility in the event of a potential cancellation or postponement of an event as a result of public health crises that may preclude the Village from executing on an event on the pre-scheduled date/time. Should an event be cancelled, the dollar

amount allocated for that event shall be credited to the Village's account to be used at a future event.

4. **Subcontractor:** If Clowning Around proposes to perform contract with subcontractor(s), then all qualifications, insurance requirements, and other applicable terms and conditions shall apply to each and every subcontractor. The proposal shall include such documentation for each subcontractor. Prior to any work being performed by the subcontractor, Clowning Around shall submit all the necessary information to the Village regarding subcontractors including company name, company address, certificate of insurance, licenses, years in business, bid certification, name of project, contact person; and the Village, at its sole discretion, may require additional insurance, bonds, or deposits to assure faithful performance. Any and all subcontractors shall be fully covered by Clowning Around.
5. **Clean Up:** Clowning Around shall at all times keep the premises free from accumulation of waste materials and rubbish caused by his work. Tools, equipment and surplus materials shall be removed upon completion of the work. If Clowning Around fails to clean up as provided in the Contract Documents, the Village may do so and the cost thereof shall be charged to Clowning Around or subtracted from any holdback amount.

6. Site Visits

- a. If Clowning Around or any subcontractors wish to arrange a site visit and/or a final pre-event walk-through with Village and Fire Protection District staff, they should contact Ben Gilbertson, Assistant Village Manager/Community & Economic Development Director (bgilbertson@lincolnshireil.gov; 847-913-2312).

7. Requirements

- a. Clowning Around understands that it will not charge for any rides or games during the special event. All rides/games are tickets only, unless otherwise specified by the Assistant Village Manager/Community & Economic Development Director. Tickets will be sold from a Village-operated ticket booth. Clowning Around's rides/games attendants shall collect all tickets, tear them in half, place them in a Village-provided container, and submit the container to on-site Village staff at the conclusion of the rides/games.
- b. At least 30 days prior to the start of the special event, Clowning Around shall present a diagram showing the layout of all attractions of any kind.
- c. Client will provide all electricity and electrical cables. Electrical cables shall be placed in such a manner as to provide safe passage of the public. Electrical cables shall not cross any public roadways or walkways.
- d. Clowning Around shall:
 - i. Make safety its number one concern. At all times during the contract period, care shall be used that is reasonable and prudent to ensure safety of all concerned. Clowning Around shall ensure that his actions cannot be judged negligent in any way.
 - ii. Assume all liability for safety set-up, operation, and take-down of rides and attractions staffed by Clowning Around.
 - iii. Conform to any and all state, county, Village, and Lincolnshire-Riverwoods Fire Protection District codes, regulations, permits and licenses that may be required regarding the equipment and games set-up/take-down throughout the event.
 - iv. Not operate games of chance.
 - v. Sell beer, wine, alcohol in any form, or energy drinks containing

- stimulants.
- vi. Not offer cash prizes in any game.
- vii. Not offer as prizes live animals, knives firearms, any items which could be used as a weapon or any family objectionable material.
- e. Rides and games to be provided shall be clean, well maintained, and painted as required. The Village reserves the right to refuse a ride which does not meet these standards.
- f. Clowning Around will ensure that the use of the assigned area for amusement operations is arranged to protect the public from dangerous conditions, equipment and maintenance operations.
- g. All amusement ride and games operators and staff shall be clean, provided with a staff shirt (by Clowning Around), and maintain positive customer interactions.
- h. Smoking, alcohol, or drugs of any kind is prohibited at all time by amusement staff is not permitted during the event operating hours within the amusement area.
- i. Clowning Around shall operate and maintain all such rides and games in such a manner as to avoid the creation of a nuisance, protect the health, safety and general welfare of its employees, persons in attendance or who use the rides at the special event, and those who reside in the area where the special event will be held.
- j. Clowning Around shall demonstrate a high degree of experience and performance during the term of the contract period.
 - i. All rides and games shall open on time.
 - ii. A clean and exceptional appearance of operation shall be maintained.
 - iii. Clowning Around shall continuously maintain the area around each ride and game in a clean, neat, and safe condition.
 - iv. After the event, Clowning Around shall clean up all areas used by Clowning Around to the satisfaction of the Village.
- k. During all special event operating hours, experienced and adequate personnel must be on duty. A minimum of one attendant per each ride/inflatable at all times during scheduled hours of operation.
- 8. The Village shall at all times have access to all attractions operated under the agreement, and shall have the authority to immediately close any ride or game that the Village in its discretion deems objectionable or unsafe.
- 9. Clowning Around must maintain one representative on-site throughout the event who is authorized to take immediate action upon any request of Village management at all times that Contactor is on Village property. This person must be identified to the Village as Clowning Around's authorized representative and their contact information (including the cell phone number) provided to the Village at least 7 days before the start of the event.

Red, White, & BOOM! Contract Terms and Details

1. Hours of Operation

- a. Red, White and Boom 4th of July is a two (2) day event scheduled on July 3rd and July 4th. The typical hours of operation for the amusement rides and games are as follows:
 - i. July 3 - 5:00 p.m. to 9:00 p.m.
 - ii. July 4 - 12:00 p.m. to 4:00 p.m.
- b. The opening and closing times may be changed, having the start times later and end times earlier, in the interest of public safety and health..
- c. Clowning Around can start set-up at 8:00 a.m. on the day preceding opening day for the event. Clowning Around will not be permitted to open and start any

operation until approval is given by the Assistant Village Manager/Community & Economic Development Director or his/her designee.

- d. Take-down will begin promptly at 4:00 p.m. on July 4 and, if not concluded by 6:00 p.m. in anticipation for the fireworks show, will conclude following fireworks show.

2. Village Facility Set-Up

- a. The event will be held at the following location:
Spring Lake Park
49 Oxford Drive
Lincolnshire, Illinois 60069
- b. Facility set-up by Village shall include the following:
 - i. A suitable location for the operation of rides and games.
 - ii. Properly prepare park grounds for the event and to arrange for water access, trash receptacles, and hauling.
 - iii. To provide access to restrooms for Clowning Around's personnel.

3. Facility Breakdown / Clean Up

- a. Facility breakdown and clean up by Clowning Around shall include:
 - i. Within 48 hours after the final time for operation of the rides, Clowning Around shall remove all equipment from Village's property and repair any damage to the ride area caused by the ride, beyond reasonable wear and tear. Trash shall be placed in receptacles provided by the Village.

Heroes Night Contract Terms and Details

1. Hours of Operation

- a. Heroes Night is scheduled August 28 from 5-8 p.m.
- b. The opening and closing times may be changed, having the start times later and end times earlier.
- c. Clowning Around can start set-up at 8:00 a.m. on the day preceding the event. Clowning Around will not be permitted to open and start any operation until approval is given by the Assistant Village Manager/Community & Economic Development Director or his/her designee.
- d. Take down may not begin until conclusion of the event. All rides and games shall be removed within 24 hours of the conclusion of the special event, unless approval is given by the Assistant Village Manager/Community & Economic Development Director or his/her designee.

2. Village Facility Set-Up

- a. The event will be held at the following location:
North Park
1025 Riverwoods Road
Lincolnshire, Illinois 60069
- b. Facility set-up by Village shall include the following:
 - i. A suitable location for the operation of rides and games.
 - ii. Properly prepare park grounds for the event and to arrange for water access, trash receptacles, and hauling.
 - iii. To provide access to restrooms for Clowning Around's personnel.

3. Facility Breakdown / Clean Up

- a. Facility breakdown and clean up by Clowning Around shall include:
 - i. Within 24 hours after the final time for operation of the rides, Clowning Around shall remove all equipment from Village's property and repair any

damage to the ride area caused by the ride, beyond reasonable wear and tear. Trash shall be placed in receptacles provided by the Village.

Boo Bash Contract Terms and Details

1. Hours of Operation

- a. Boo Bash is scheduled October 23 from 5-8 p.m.
- b. The opening and closing times may be changed, having the start times later and end times earlier.
- c. Clowning Around can start set-up at 8:00 a.m. on the day of the event. Clowning Around will not be permitted to open and start any operation until approval is given by the Assistant Village Manager/Community & Economic Development Director or his/her designee.
- d. Take down may not begin until conclusion of the event. All rides and games shall be removed within 24 hours of the conclusion of the special event, unless approval is given by the Assistant Village Manager/Community & Economic Development Director or his/her designee.

2. Village Facility Set-Up

- a. The event will be held at the following location:
North Park
1025 Riverwoods Road
Lincolnshire, Illinois 60069
- b. Facility set-up by Village shall include the following:
 - i. A suitable location for the operation of rides and games.
 - ii. Properly prepare park grounds for the event and to arrange for water access, trash receptacles, and hauling.
 - iii. To provide access to restrooms for Clowning Around’s personnel.

3. Facility Breakdown / Clean Up

- a. Facility breakdown and clean up by Clowning Around shall include:
 - i. Within 24 hours after the final time for operation of the rides, Clowning Around shall remove all equipment from Village’s property and repair any damage to the ride area caused by the ride, beyond reasonable wear and tear. Trash shall be placed in receptacles provided by the Village.

Village of Lincolnshire

Date

Clowning Around
Entertainment, Inc. /
Celebration Authority

Date



A Celebration Authority

220 South Shaddle Av., Mundelein, IL 60060

Phone: 847-566-3006 Fax: 847-566-1766

Website: www.celebrationauthority.com Email: events@celebrationauthority.com

Village of Lincolnshire

Ben Gilbertson

Billing Address

One Olde Half Day Road

Lincolnshire, IL 60069

Phone: (847)913-2312

Email: bgilbertson@lincolnshireil.gov

Shipping Address

49 Oxford Drive

Spring Lake Park

Lincolnshire, IL 60069

Order No: 37470

Order Date: April 6, 2020

Written by: Becky Vivero

Verified on: April 22, 2020

Verified by: Becky Vivero

| InvNo | Name | Qty | Total |
|----------|------------------------------|-----|-------------|
| EQCMBX | Combo Express | 1 | \$0.00 |
| INXFUN | Xtreme Fun Run | 1 | \$0.00 |
| INRO | Rocky Mountain Climbing Wall | 1 | \$0.00 |
| INOBS5 | Obstacle Course-2 #5 | 1 | \$0.00 |
| INBU | Bungee Run | 1 | \$0.00 |
| INWIS | Wind Tunnel Safari Train | 1 | \$0.00 |
| INSU | Superbouncer Looney Bin | 1 | \$0.00 |
| MIPCKPR | Package Price | 1 | \$15,600.00 |
| MIGSRG | Gas Surcharge | 1 | \$9.00 |
| MIDAMWA | Damage Protection Declined | 1 | \$0.00 |
| MISCA | Misc. A | 1 | \$0.00 |
| EQWTRBTL | Water Battle | 1 | \$0.00 |

| | | |
|----------------|--------|-------------|
| Order subtotal | | \$15,609.00 |
| Discount | 0.00 % | \$0.00 |
| Taxable Amount | | \$0.00 |
| Sales Tax | 0.00 % | \$0.00 |
| Delivery | | \$0.00 |
| Total | | \$15,609.00 |
| Amount Paid | | \$0.00 |
| Balance Due | | \$15,609.00 |

Start Date & Time: Fri, Jul 3, 2020 12:00 am

End Date & Time: Sat, Jul 4, 2020 11:59 pm

Delivery method: On Site

Surface type: Grass

Additional Notes:

Event Schedule:

July 3rd, 2020/ 5:00pm- 9:00pm

July 4th, 2020/ 12:00pm- 4:00pm

CA will provide ten staff:

1 - Combo Express

1 - Twin Spin (Misc. A)

1 - Water Battle

1 - Xtreme Fun Run

2 - Rocky Mountain Climbing Wall

1 - Obstacle Course

1 - Bungee Run

1 - Safari Train Wind Tunnel

1 - Superbouncer Looney Bin

Client will provide a water spigot for Water Battle.

Client will provide power; 11 - 20 amp circuits.

On-site contact name & cell TBA.

Deposit of 50% and Signed Confirmation due by May 14, 2020.

TERMS AND CONDITIONS

1. CLIENT MUST RETURN THIS SIGNED AGREEMENT, DEPOSIT IF INDICATED, AND DIRECTIONS TO THE SITE FROM THE NEAREST MAIN INTERSECTION WITHIN 7 DAYS OF CONTRACT RECEIPT, BUT BEFORE THE EVENT DATE, TO RESERVE EQUIPMENT AND ENTERTAINMENT. DEPOSITS ARE NON-REFUNDABLE OR TRANSFERABLE, CLIENT MAY PAY BALANCE ONLY VIA CORPORATE CHECK, CASH, CASHIER'S CHECK OR MONEY ORDER. PERSONAL CHECKS MAY NOT BE USED FOR FINAL PAYMENTS. BALANCE MUST BE PAID AT ARRIVAL UNLESS CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY STATES DIFFERENTLY ON THIS AGREEMENT FORM. CLOWNING AROUND ENTERTAINMENT, INC./ A CELEBRATION AUTHORITY RESERVES THE RIGHT, WITHOUT NOTICE, TO WITHHOLD SERVICES FOR NON-PAYMENT OF OUTSTANDING INVOICES OR BALANCE DUE.
THIS CONTRACT IS NON-CANCELLABLE. THE BALANCE OF THIS FULL CONTRACT PRICE IS DUE AND PAYABLE TO CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY NOT LATER THAN THE DATE FOR THE DELIVERY OF THE EQUIPMENT AND/OR SERVICES TO BE RENDERED, WHETHER OR NOT CUSTOMER ACCEPTS DELIVERY.
2. ALL CHANGES MUST BE MADE 7 BUSINESS DAYS PRIOR TO EVENT.
3. BY ACCEPTING DELIVERY OF ITEMS, CUSTOMER AGREES TO ALL TERMS AND CONDITIONS SHOWN ON THIS CONTRACT.
4. CUSTOMER SHALL PROVIDE ADEQUATE AND LEGAL PARKING AND UNLOADING AREAS FOR PERFORMER(S) AND DELIVERY VEHICLE(S). CUSTOMER AGREES TO REIMBURSE CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY FOR ANY PARKING FEES INCURRED.
5. CUSTOMER ASSUMES FULL RESPONSIBILITY FOR ALL ITEMS, INCLUDING THEIR SAFE AND PROPER USE, OPERATION, MAINTENANCE AND RETURN TO CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY. CUSTOMER IS RESPONSIBLE FOR ALL LOSS, DAMAGE, OR REPAIR.
6. IN THE EVENT OF MECHANICAL FAILURE CUSTOMER WILL BE GIVEN EXTRA RUNNING TIME OR CREDIT FOR ACTUAL DOWN TIME.
7. CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY MAKES NO WARRANTIES OF MERCHANT ABILITY OR FITNESS FOR PARTICULAR PURPOSE, OR ANY WARRANTIES , EXPRESSED OR IMPLIED.
8. THIS CONTRACT FORMS THE SOLE AGREEMENT BETWEEN THE CUSTOMER AND CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY. THE CUSTOMER AGREES TO INDEMNIFY AND HOLD CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY HARMLESS FOR ANY CLAIMS FROM CUSTOMERS USE OR MISUSE, INCLUDING ANY THIRD PARTIES FOR LOSS, INJURY, AND DAMAGE TO PERSONS OR PROPERTY ARISING OUT OF THE CUSTOMER'S NEGLIGENCE OR OPERATION INCLUDING LEGAL COSTS INCURRED IN DEFENSE OF SUCH CLAIMS.
9. OPERATORS SHOULD READ ALL WARNINGS AND INSTRUCTIONS (SAFETY INSTRUCTIONS).
10. RETAKING OF EQUIPMENT: IF CUSTOMER FAILS TO RETURN ALL RETURNED ITEMS UPON AGREED TIME, CUSTOMER AGREES TO PAY FOR ALL ADDITIONAL CHARGES. IF CUSTOMER REFUSES TO RETURN ITEMS, THE CUSTOMER AGREES THAT CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY AND ITS AGENTS MAY TAKE ALL ACTIONS REASONABLE NECESSARY TO RECOVER ITEMS WITHOUT PRIOR NOTICE OR LEGAL PROCESS.
11. CUSTOMER ACKNOWLEDGES THE POSSIBILITY OF INJURY AND WILL PROVIDE ADULT SUPERVISION AT ALL TIMES ACCORDING TO THE RULES GIVEN TO PARTY HOST/CLIENT PRIOR TO EVENT, WRITTEN INSTRUCTION, OR VERBAL.
12. ATTORNEY FEES: CUSTOMER AGREES TO PAY ALL REASONABLE ATTORNEY FEES AND COURT COSTS INCURRED BY CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY IN ENFORCING THESE TERMS AND CONDITIONS.
13. CLOWNING AROUND ENTERTAINMENT, INC./CELEBRATION AUTHORITY, ITS OFFICERS, AGENTS, ASSIGNS, EMPLOYEES, CONTRACTORS, SUPPLIERS AND/OR VENDORS SHALL NOT BE RESPONSIBLE FOR ANY CLAIMS OF DAMAGES, INCLUDING BUT NOT LIMITED TO PERSONAL INJURY AND/OR PROPERTY DAMAGE, OCCURRING TO CUSTOMERS OR ANY USING PARTY ARISING FROM THE USE OF THE EQUIPMENT. CUSTOMER AGREES TO INDEMNIFY AND HOLD HARMLESS CLOWNING AROUND ENTERTAINMENT, INC./CELEBRATION AUTHORITY, IT'S OFFICERS, AGENTS ASSIGNS, EMPLOYEES, CONTRACTORS, SUPPLIERS AND/OR VENDORS FROM ANY AND ALL CLAIMS FOR DAMAGES TO PERSON OR TO PROPERTY AND CLAIMS FOR LOSS, DAMAGE AND/OR THEFT ARISING OUT OF THE USE OF THE EQUIPMENT, AND AT ITS/HIS/HER OWN EXPENSE TO DEFEND ANY SUIT OR ACTION BROUGHT AGAINST CLOWNING AROUND ENTERTAINMENT, INC./CELEBRATION AUTHORITY, IT'S OFFICERS, AGENTS, ASSIGNS, EMPLOYEES, CONTRACTORS, SUPPLIERS AND/OR VENDORS FOUNDED UPON THE CLAIM OF SUCH DAMAGE OR LOSS OR THEFT.
14. CLIENT STATES AND AGREES THAT EVENT IS A CLOSED EVENT AND NOT OPEN TO THE PUBLIC UNLESS DOCUMENTED DIFFERENTLY ON CONTRACT.
15. CLIENT WILL COOPERATE AND ALLOW CLOWNING AROUND ENTERTAINMENT, INC./CELEBRATION AUTHORITY TO REQUIRE ON SITE WAIVERS FROM PARTICIPANTS IF DETERMINED IT IS NEEDED BY CLOWNING AROUND ENTERTAINMENT, INC./CELEBRATION AUTHORITY.
16. ANY CHANGES AFTER THE CONTRACT HAS BEEN WRITTEN WILL RESULT IN A \$25.00 PROCESSING FEE.
17. DAMAGE PROTECTION: IF YOU PAY THE DAMAGE WAIVER CHARGE (DWC) AS SPECIFIED, SUBJECT TO THE LIMITATIONS AND EXCLUSIONS BELOW, CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY AGREES TO MODIFY THE TERMS OF THIS CONTRACT AND RELIEVE YOU OF LIABILITY FOR ACCIDENTAL DAMAGE TO THE ITEM(S) ON THIS CONTRACT, AND FOR LOSS DUE TO FIRE, COLLISION, WINDSTORM, UPSET, AND RIOT. WE EXCLUDE FROM THIS WAIVER, HOWEVER, ANY LOSS OR DAMAGE DUE TO THEFT, BURGLARY, MISUSE OR ABUSE, THEFT BY CONVERSION, INTENTIONAL DAMAGE, MYSTERIOUS DISAPPEARANCE OR ANY LOSS DUE TO YOUR FAILURE TO CARE FOR THE ITEM(S) AS A PRUDENT PERSON WOULD HIS/HER OWN PROPERTY. IN ADDITION, THIS WAIVER DOES NOT INCLUDE AND/OR COVER PERSONAL INJURY OR DEATH. IF ANY LOSS TENDS TO INDICATE A CRIME MAY HAVE BEEN COMMITTED, A FURTHER CONDITION OF THIS WAIVER IS THAT YOU MUST FILE A REPORT TO THE PROPER LAW ENFORCEMENT AUTHORITIES AND FURNISH US A COPY. IN ADDITION, IF YOU HAVE INSURANCE FOR THE LOSS OR DAMAGE, YOU SHALL EXERCISE, AND SHALL EMPOWER US TO EXERCISE, ALL YOUR RIGHTS TO OBTAIN RECOVERY UNDER INSURANCE. SHALL COOPERATE WITH CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY TO OBTAIN RECOVERY AND ALL INSURANCE PROCEEDS SHALL BE GIVEN OR ASSIGNED TO CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY.
18. ALL CREDIT CARD TRANSACTIONS WILL HAVE A 3.90% and ZELLE 2.5% CONVENIENCE FEE ADDED.

SIGNED _____ DATE _____



A Celebration Authority

220 South Shaddle Av., Mundelein, IL 60060

Phone: 847-566-3006 Fax: 847-566-1766

Website: www.celebrationauthority.com Email: events@celebrationauthority.com

Village of Lincolnshire

Ben Gilbertson

Billing Address

One Olde Half Day Road

Lincolnshire, IL 60069

Phone: (847)913-2312

Email: bgilbertson@lincolnshireil.gov

Shipping Address

49 Oxford Drive

Spring Lake Park

Lincolnshire, IL 60069

Order No: 37471

Order Date: April 6, 2020

Written by: Becky Vivero

Verified on: April 22, 2020

Verified by: Becky Vivero

Start Date & Time: Sat, Jul 4, 2020 12:00 pm

End Date & Time: Sat, Jul 4, 2020 4:00 pm

Delivery method: On Site

| InvNo | Name | Qty | Total |
|----------------|---------------------------------|--------|------------|
| ENPOR5 | Pony Rides In A Ring Five Hours | 1 | \$0.00 |
| ENPET5 | Petting Zoo Five Hours | 1 | \$0.00 |
| MIPCKPR | Package Price | 1 | \$2,750.00 |
| MIGSRG | Gas Surcharge | 1 | \$0.00 |
| MIDAMWA | Damage Protection Declined | 1 | \$0.00 |
| CARFDMNk | Feed the Monkey | 1 | \$0.00 |
| CARALIN | Alien Invasion | 1 | \$0.00 |
| EQBMBLA | Boom Blaster | 1 | \$0.00 |
| CASTRKSP | Striker Sparky | 1 | \$0.00 |
| CARBTLBL | Battle Blaze | 1 | \$0.00 |
| CARCWMLH | Cow Milking | 1 | \$0.00 |
| Order subtotal | | | \$2,750.00 |
| Discount | | 0.00 % | \$0.00 |
| Taxable Amount | | | \$0.00 |
| Sales Tax | | 0.00 % | \$0.00 |
| Delivery | | | \$0.00 |
| Total | | | \$2,750.00 |
| Amount Paid | | | \$0.00 |
| Balance Due | | | \$2,750.00 |

Additional Notes:

CA will provide Handlers/Staff for the Petting Zoo & Pony Rides.

Client will provide staff for the games.

On-site contact TBA.

Client will have a fresh water supply, adjacent, at-level parking for truck or trailer and garbage receptacles for waste. In extremely hot weather, set up must be in the shade. Pavement or grass surface required. Gravel surfaces are unusable.

Package priced with order #37470.

Deposit of 50% and Signed Confirmation due by May 14, 2020.

TERMS AND CONDITIONS

1. CLIENT MUST RETURN THIS SIGNED AGREEMENT, DEPOSIT IF INDICATED, AND DIRECTIONS TO THE SITE FROM THE NEAREST MAIN INTERSECTION WITHIN 7 DAYS OF CONTRACT RECEIPT, BUT BEFORE THE EVENT DATE, TO RESERVE EQUIPMENT AND ENTERTAINMENT. DEPOSITS ARE NON-REFUNDABLE OR TRANSFERABLE, CLIENT MAY PAY BALANCE ONLY VIA CORPORATE CHECK, CASH, CASHIER'S CHECK OR MONEY ORDER. PERSONAL CHECKS MAY NOT BE USED FOR FINAL PAYMENTS. BALANCE MUST BE PAID AT ARRIVAL UNLESS CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY STATES DIFFERENTLY ON THIS AGREEMENT FORM. CLOWNING AROUND ENTERTAINMENT, INC./ A CELEBRATION AUTHORITY RESERVES THE RIGHT, WITHOUT NOTICE, TO WITHHOLD SERVICES FOR NON-PAYMENT OF OUTSTANDING INVOICES OR BALANCE DUE.
THIS CONTRACT IS NON-CANCELLABLE. THE BALANCE OF THIS FULL CONTRACT PRICE IS DUE AND PAYABLE TO CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY NOT LATER THAN THE DATE FOR THE DELIVERY OF THE EQUIPMENT AND/OR SERVICES TO BE RENDERED, WHETHER OR NOT CUSTOMER ACCEPTS DELIVERY.
2. ALL CHANGES MUST BE MADE 7 BUSINESS DAYS PRIOR TO EVENT.
3. BY ACCEPTING DELIVERY OF ITEMS, CUSTOMER AGREES TO ALL TERMS AND CONDITIONS SHOWN ON THIS CONTRACT.
4. CUSTOMER SHALL PROVIDE ADEQUATE AND LEGAL PARKING AND UNLOADING AREAS FOR PERFORMER(S) AND DELIVERY VEHICLE(S). CUSTOMER AGREES TO REIMBURSE CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY FOR ANY PARKING FEES INCURRED.
5. CUSTOMER ASSUMES FULL RESPONSIBILITY FOR ALL ITEMS, INCLUDING THEIR SAFE AND PROPER USE, OPERATION, MAINTENANCE AND RETURN TO CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY. CUSTOMER IS RESPONSIBLE FOR ALL LOSS, DAMAGE, OR REPAIR.
6. IN THE EVENT OF MECHANICAL FAILURE CUSTOMER WILL BE GIVEN EXTRA RUNNING TIME OR CREDIT FOR ACTUAL DOWN TIME.
7. CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY MAKES NO WARRANTIES OF MERCHANT ABILITY OR FITNESS FOR PARTICULAR PURPOSE, OR ANY WARRANTIES , EXPRESSED OR IMPLIED.
8. THIS CONTRACT FORMS THE SOLE AGREEMENT BETWEEN THE CUSTOMER AND CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY. THE CUSTOMER AGREES TO INDEMNIFY AND HOLD CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY HARMLESS FOR ANY CLAIMS FROM CUSTOMERS USE OR MISUSE, INCLUDING ANY THIRD PARTIES FOR LOSS, INJURY, AND DAMAGE TO PERSONS OR PROPERTY ARISING OUT OF THE CUSTOMER'S NEGLIGENCE OR OPERATION INCLUDING LEGAL COSTS INCURRED IN DEFENSE OF SUCH CLAIMS.
9. OPERATORS SHOULD READ ALL WARNINGS AND INSTRUCTIONS (SAFETY INSTRUCTIONS).
10. RETAKING OF EQUIPMENT: IF CUSTOMER FAILS TO RETURN ALL RETURNED ITEMS UPON AGREED TIME, CUSTOMER AGREES TO PAY FOR ALL ADDITIONAL CHARGES. IF CUSTOMER REFUSES TO RETURN ITEMS, THE CUSTOMER AGREES THAT CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY AND ITS AGENTS MAY TAKE ALL ACTIONS REASONABLE NECESSARY TO RECOVER ITEMS WITHOUT PRIOR NOTICE OR LEGAL PROCESS.
11. CUSTOMER ACKNOWLEDGES THE POSSIBILITY OF INJURY AND WILL PROVIDE ADULT SUPERVISION AT ALL TIMES ACCORDING TO THE RULES GIVEN TO PARTY HOST/CLIENT PRIOR TO EVENT, WRITTEN INSTRUCTION, OR VERBAL.
12. ATTORNEY FEES: CUSTOMER AGREES TO PAY ALL REASONABLE ATTORNEY FEES AND COURT COSTS INCURRED BY CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY IN ENFORCING THESE TERMS AND CONDITIONS.
13. CLOWNING AROUND ENTERTAINMENT, INC./CELEBRATION AUTHORITY, ITS OFFICERS, AGENTS, ASSIGNS, EMPLOYEES, CONTRACTORS, SUPPLIERS AND/OR VENDORS SHALL NOT BE RESPONSIBLE FOR ANY CLAIMS OF DAMAGES, INCLUDING BUT NOT LIMITED TO PERSONAL INJURY AND/OR PROPERTY DAMAGE, OCCURRING TO CUSTOMERS OR ANY USING PARTY ARISING FROM THE USE OF THE EQUIPMENT. CUSTOMER AGREES TO INDEMNIFY AND HOLD HARMLESS CLOWNING AROUND ENTERTAINMENT, INC./CELEBRATION AUTHORITY, IT'S OFFICERS, AGENTS ASSIGNS, EMPLOYEES, CONTRACTORS, SUPPLIERS AND/OR VENDORS FROM ANY AND ALL CLAIMS FOR DAMAGES TO PERSON OR TO PROPERTY AND CLAIMS FOR LOSS, DAMAGE AND/OR THEFT ARISING OUT OF THE USE OF THE EQUIPMENT, AND AT ITS/HIS/HER OWN EXPENSE TO DEFEND ANY SUIT OR ACTION BROUGHT AGAINST CLOWNING AROUND ENTERTAINMENT, INC./CELEBRATION AUTHORITY, IT'S OFFICERS, AGENTS, ASSIGNS, EMPLOYEES, CONTRACTORS, SUPPLIERS AND/OR VENDORS FOUNDED UPON THE CLAIM OF SUCH DAMAGE OR LOSS OR THEFT.
14. CLIENT STATES AND AGREES THAT EVENT IS A CLOSED EVENT AND NOT OPEN TO THE PUBLIC UNLESS DOCUMENTED DIFFERENTLY ON CONTRACT.
15. CLIENT WILL COOPERATE AND ALLOW CLOWNING AROUND ENTERTAINMENT, INC./CELEBRATION AUTHORITY TO REQUIRE ON SITE WAIVERS FROM PARTICIPANTS IF DETERMINED IT IS NEEDED BY CLOWNING AROUND ENTERTAINMENT, INC./CELEBRATION AUTHORITY.
16. ANY CHANGES AFTER THE CONTRACT HAS BEEN WRITTEN WILL RESULT IN A \$25.00 PROCESSING FEE.
17. DAMAGE PROTECTION: IF YOU PAY THE DAMAGE WAIVER CHARGE (DWC) AS SPECIFIED, SUBJECT TO THE LIMITATIONS AND EXCLUSIONS BELOW, CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY AGREES TO MODIFY THE TERMS OF THIS CONTRACT AND RELIEVE YOU OF LIABILITY FOR ACCIDENTAL DAMAGE TO THE ITEM(S) ON THIS CONTRACT, AND FOR LOSS DUE TO FIRE, COLLISION, WINDSTORM, UPSET, AND RIOT. WE EXCLUDE FROM THIS WAIVER, HOWEVER, ANY LOSS OR DAMAGE DUE TO THEFT, BURGLARY, MISUSE OR ABUSE, THEFT BY CONVERSION, INTENTIONAL DAMAGE, MYSTERIOUS DISAPPEARANCE OR ANY LOSS DUE TO YOUR FAILURE TO CARE FOR THE ITEM(S) AS A PRUDENT PERSON WOULD HIS/HER OWN PROPERTY. IN ADDITION, THIS WAIVER DOES NOT INCLUDE AND/OR COVER PERSONAL INJURY OR DEATH. IF ANY LOSS TENDS TO INDICATE A CRIME MAY HAVE BEEN COMMITTED, A FURTHER CONDITION OF THIS WAIVER IS THAT YOU MUST FILE A REPORT TO THE PROPER LAW ENFORCEMENT AUTHORITIES AND FURNISH US A COPY. IN ADDITION, IF YOU HAVE INSURANCE FOR THE LOSS OR DAMAGE, YOU SHALL EXERCISE, AND SHALL EMPOWER US TO EXERCISE, ALL YOUR RIGHTS TO OBTAIN RECOVERY UNDER INSURANCE. SHALL COOPERATE WITH CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY TO OBTAIN RECOVERY AND ALL INSURANCE PROCEEDS SHALL BE GIVEN OR ASSIGNED TO CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY.
18. ALL CREDIT CARD TRANSACTIONS WILL HAVE A 3.90% and ZELLE 2.5% CONVENIENCE FEE ADDED.

SIGNED _____ DATE _____



A Celebration Authority

220 South Shaddle Av., Mundelein, IL 60060

Phone: 847-566-3006 Fax: 847-566-1766

Website: www.celebrationauthority.com Email: events@celebrationauthority.com

Village of Lincolnshire

Ben Gilbertson

Billing Address

One Olde Half Day Road

Lincolnshire, IL 60069

Phone: (847)913-2312

Email: bgilbertson@lincolnshireil.gov

Shipping Address

1025 Riverwoods Rd.

North Park

Lincolnshire, IL 60069

Order No: 37472

Order Date: April 6, 2020

Written by: Becky Vivero

Verified on: April 22, 2020

Verified by: Becky Vivero

| InvNo | Name | Qty | Total |
|-----------|--------------------------------|-----|------------|
| INMCBSR | Mechanical Bull/Surf/Arm Chair | 1 | \$0.00 |
| INHIPCHW | Hippo Chow Down | 1 | \$0.00 |
| INCMPIR | Moonwalk Pirate Ship | 1 | \$0.00 |
| INSLM | Slide Mini | 1 | \$0.00 |
| MISCWAX | Wax Hands | 1 | \$0.00 |
| EQVREXP | VR Experience | 1 | \$0.00 |
| CARBTLBL | Battle Blaze | 1 | \$0.00 |
| CARREXTS | T-Rex Toss | 1 | \$0.00 |
| CARDWNC | Down a Clown | 1 | \$0.00 |
| CARRT | Ring Toss | 1 | \$0.00 |
| CARPINBL | Pinball Monkey | 1 | \$0.00 |
| CARFRGFLI | Frog Flinger | 1 | \$0.00 |
| CARPLKO | Plinko | 1 | \$0.00 |
| CARXTO | X Tac O | 1 | \$0.00 |
| CARMBK | Milk Bottle Knock Down | 1 | \$0.00 |
| CARHLON | Hole in One | 1 | \$0.00 |
| MICARRDF | Carni Red Front | 6 | \$0.00 |
| EQTAB6 | Table 6' Banquet | 5 | \$0.00 |
| MIPCKPR | Package Price | 1 | \$9,200.00 |
| MIGSRG | Gas Surcharge | 1 | \$9.00 |
| MIDAMWA | Damage Protection Declined | 1 | \$0.00 |
| INSL | Slip N' Dip | 1 | \$0.00 |
| INDBLLDR | Double Ladder Climb | 1 | \$0.00 |
| INBOBO | Bouncy Boxing | 1 | \$0.00 |
| GOSM | Golf Swing Master | 1 | \$0.00 |
| EQBLSBALI | Blaster Ball | 1 | \$0.00 |

Start Date & Time: Fri, Aug 28, 2020 5:00 pm

End Date & Time: Fri, Aug 28, 2020 8:00 pm

Delivery method: On Site

Surface type: Grass

Additional Notes:

Heroes Night.

CA will provide eleven staff:

1 - Mechanical Surf

1 - Hippo Chow Down

1 - Slip N' Dip

1 - Double Ladder Climb

1 - Pirate Ship Combo

1 - Bouncy Boxing

1 - 13' Slide

1 - Blaster Ball

1 - Wax Hands

1 - VR Experience

1 - Golf Swing Master

Client will provide volunteers for the games.

Client will provide power; 15 - 20 amp circuits.

8' Table will be used at Wax Hands Station.

6' Tables will be used for games/carnival fronts.

On-site contact TBA.

Deposit of 50% and Signed Confirmation due by May 14, 2020.

DOCUMENT 1

| | | |
|----------------|--------|------------|
| Order subtotal | | \$9,209.00 |
| Discount | 0.00 % | \$0.00 |
| Taxable Amount | | \$0.00 |
| Sales Tax | 0.00 % | \$0.00 |
| Delivery | | \$0.00 |
| Total | | \$9,209.00 |
| Amount Paid | | \$0.00 |
| Balance Due | | \$9,209.00 |

TERMS AND CONDITIONS

1. CLIENT MUST RETURN THIS SIGNED AGREEMENT, DEPOSIT IF INDICATED, AND DIRECTIONS TO THE SITE FROM THE NEAREST MAIN INTERSECTION WITHIN 7 DAYS OF CONTRACT RECEIPT, BUT BEFORE THE EVENT DATE, TO RESERVE EQUIPMENT AND ENTERTAINMENT. DEPOSITS ARE NON-REFUNDABLE OR TRANSFERABLE. CLIENT MAY PAY BALANCE ONLY VIA CORPORATE CHECK, CASH, CASHIER'S CHECK OR MONEY ORDER. PERSONAL CHECKS MAY NOT BE USED FOR FINAL PAYMENTS. BALANCE MUST BE PAID AT ARRIVAL UNLESS CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY STATES DIFFERENTLY ON THIS AGREEMENT FORM. CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY RESERVES THE RIGHT, WITHOUT NOTICE, TO WITHHOLD SERVICES FOR NON-PAYMENT OF OUTSTANDING INVOICES OR BALANCE DUE. THIS CONTRACT IS NON-CANCELLABLE. THE BALANCE OF THIS FULL CONTRACT PRICE IS DUE AND PAYABLE TO CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY NOT LATER THAN THE DATE FOR THE DELIVERY OF THE EQUIPMENT AND/OR SERVICES TO BE RENDERED, WHETHER OR NOT CUSTOMER ACCEPTS DELIVERY.
2. ALL CHANGES MUST BE MADE 7 BUSINESS DAYS PRIOR TO EVENT.
3. BY ACCEPTING DELIVERY OF ITEMS, CUSTOMER AGREES TO ALL TERMS AND CONDITIONS SHOWN ON THIS CONTRACT.
4. CUSTOMER SHALL PROVIDE ADEQUATE AND LEGAL PARKING AND UNLOADING AREAS FOR PERFORMER(S) AND DELIVERY VEHICLE(S). CUSTOMER AGREES TO REIMBURSE CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY FOR ANY PARKING FEES INCURRED.
5. CUSTOMER ASSUMES FULL RESPONSIBILITY FOR ALL ITEMS, INCLUDING THEIR SAFE AND PROPER USE, OPERATION, MAINTENANCE AND RETURN TO CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY. CUSTOMER IS RESPONSIBLE FOR ALL LOSS, DAMAGE, OR REPAIR.
6. IN THE EVENT OF MECHANICAL FAILURE CUSTOMER WILL BE GIVEN EXTRA RUNNING TIME OR CREDIT FOR ACTUAL DOWN TIME.
7. CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY MAKES NO WARRANTIES OF MERCHANT ABILITY OR FITNESS FOR PARTICULAR PURPOSE, OR ANY WARRANTIES , EXPRESSED OR IMPLIED.
8. THIS CONTRACT FORMS THE SOLE AGREEMENT BETWEEN THE CUSTOMER AND CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY. THE CUSTOMER AGREES TO INDEMNIFY AND HOLD CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY HARMLESS FOR ANY CLAIMS FROM CUSTOMERS USE OR MISUSE, INCLUDING ANY THIRD PARTIES FOR LOSS, INJURY, AND DAMAGE TO PERSONS OR PROPERTY ARISING OUT OF THE CUSTOMER'S NEGLIGENCE OR OPERATION INCLUDING LEGAL COSTS INCURRED IN DEFENSE OF SUCH CLAIMS.
9. OPERATORS SHOULD READ ALL WARNINGS AND INSTRUCTIONS (SAFETY INSTRUCTIONS).
10. RETAKING OF EQUIPMENT: IF CUSTOMER FAILS TO RETURN ALL RETURNED ITEMS UPON AGREED TIME, CUSTOMER AGREES TO PAY FOR ALL ADDITIONAL CHARGES. IF CUSTOMER REFUSES TO RETURN ITEMS, THE CUSTOMER AGREES THAT CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY AND ITS AGENTS MAY TAKE ALL ACTIONS REASONABLE NECESSARY TO RECOVER ITEMS WITHOUT PRIOR NOTICE OR LEGAL PROCESS.
11. CUSTOMER ACKNOWLEDGES THE POSSIBILITY OF INJURY AND WILL PROVIDE ADULT SUPERVISION AT ALL TIMES ACCORDING TO THE RULES GIVEN TO PARTY HOST/CLIENT PRIOR TO EVENT, WRITTEN INSTRUCTION, OR VERBAL.
12. ATTORNEY FEES: CUSTOMER AGREES TO PAY ALL REASONABLE ATTORNEY FEES AND COURT COSTS INCURRED BY CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY IN ENFORCING THESE TERMS AND CONDITIONS.
13. CLOWNING AROUND ENTERTAINMENT, INC./CELEBRATION AUTHORITY, ITS OFFICERS, AGENTS, ASSIGNS, EMPLOYEES, CONTRACTORS, SUPPLIERS AND/OR VENDORS SHALL NOT BE RESPONSIBLE FOR ANY CLAIMS OF DAMAGES, INCLUDING BUT NOT LIMITED TO PERSONAL INJURY AND/OR PROPERTY DAMAGE, OCCURRING TO CUSTOMERS OR ANY USING PARTY ARISING FROM THE USE OF THE EQUIPMENT. CUSTOMER AGREES TO INDEMNIFY AND HOLD HARMLESS CLOWNING AROUND ENTERTAINMENT, INC./CELEBRATION AUTHORITY, IT'S OFFICERS, AGENTS ASSIGNS, EMPLOYEES, CONTRACTORS, SUPPLIERS AND/OR VENDORS FROM ANY AND ALL CLAIMS FOR DAMAGES TO PERSON OR TO PROPERTY AND CLAIMS FOR LOSS, DAMAGE AND/OR THEFT ARISING OUT OF THE USE OF THE EQUIPMENT, AND AT ITS/HIS/HER OWN EXPENSE TO DEFEND ANY SUIT OR ACTION BROUGHT AGAINST CLOWNING AROUND ENTERTAINMENT, INC./CELEBRATION AUTHORITY, IT'S OFFICERS, AGENTS, ASSIGNS, EMPLOYEES, CONTRACTORS, SUPPLIERS AND/OR VENDORS FOUNDED UPON THE CLAIM OF SUCH DAMAGE OR LOSS OR THEFT.
14. CLIENT STATES AND AGREES THAT EVENT IS A CLOSED EVENT AND NOT OPEN TO THE PUBLIC UNLESS DOCUMENTED DIFFERENTLY ON CONTRACT.
15. CLIENT WILL COOPERATE AND ALLOW CLOWNING AROUND ENTERTAINMENT, INC./CELEBRATION AUTHORITY TO REQUIRE ON SITE WAIVERS FROM PARTICIPANTS IF DETERMINED IT IS NEEDED BY CLOWNING AROUND ENTERTAINMENT, INC./CELEBRATION AUTHORITY.
16. ANY CHANGES AFTER THE CONTRACT HAS BEEN WRITTEN WILL RESULT IN A \$25.00 PROCESSING FEE.
17. DAMAGE PROTECTION: IF YOU PAY THE DAMAGE WAIVER CHARGE (DWC) AS SPECIFIED, SUBJECT TO THE LIMITATIONS AND EXCLUSIONS BELOW, CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY AGREES TO MODIFY THE TERMS OF THIS CONTRACT AND RELIEVE YOU OF LIABILITY FOR ACCIDENTAL DAMAGE TO THE ITEM(S) ON THIS CONTRACT, AND FOR LOSS DUE TO FIRE, COLLISION, WINDSTORM, UPSET, AND RIOT. WE EXCLUDE FROM THIS WAIVER, HOWEVER, ANY LOSS OR DAMAGE DUE TO THEFT, BURGLARY, MISUSE OR ABUSE, THEFT BY CONVERSION, INTENTIONAL DAMAGE, MYSTERIOUS DISAPPEARANCE OR ANY LOSS DUE TO YOUR FAILURE TO CARE FOR THE ITEM(S) AS A PRUDENT PERSON WOULD HIS/HER OWN PROPERTY. IN ADDITION, THIS WAIVER DOES NOT INCLUDE AND/OR COVER PERSONAL INJURY OR DEATH. IF ANY LOSS TENDS TO INDICATE A CRIME MAY HAVE BEEN COMMITTED, A FURTHER CONDITION OF THIS WAIVER IS THAT YOU MUST FILE A REPORT TO THE PROPER LAW ENFORCEMENT AUTHORITIES AND FURNISH US A COPY. IN ADDITION, IF YOU HAVE INSURANCE FOR THE LOSS OR DAMAGE, YOU SHALL EXERCISE, AND SHALL EMPOWER US TO EXERCISE, ALL YOUR RIGHTS TO OBTAIN RECOVERY UNDER INSURANCE, SHALL COOPERATE WITH CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY TO OBTAIN RECOVERY AND ALL INSURANCE PROCEEDS SHALL BE GIVEN OR ASSIGNED TO CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY.
18. ALL CREDIT CARD TRANSACTIONS WILL HAVE A 3.90% and ZELLE 2.5% CONVENIENCE FEE ADDED.

SIGNED _____ DATE _____



A Celebration Authority

220 South Shaddle Av., Mundelein, IL 60060

Phone: 847-566-3006 Fax: 847-566-1766

Website: www.celebrationauthority.com Email: events@celebrationauthority.com

Village of Lincolnshire

Ben Gilbertson

Billing Address

One Olde Half Day Road

Lincolnshire, IL 60069

Phone: (847)913-2312

Email: bgilbertson@lincolnshireil.gov

Shipping Address

1025 Riverwoods Rd.

North Park

Lincolnshire, IL 60069

Order No: 37473

Order Date: April 6, 2020

Written by: Becky Vivero

Verified on: April 22, 2020

Verified by: Becky Vivero

| InvNo | Name | Qty | Total |
|----------------|-------------------------------|--------|------------|
| INSLDNK | Slam Dunk Basketball | 1 | \$0.00 |
| INTCLASL | Rock Climb and Slide | 1 | \$0.00 |
| MISSTRKP | Strike a Pose | 1 | \$0.00 |
| MIPCKPR | Package Price | 1 | \$4,650.00 |
| MIGSRG | Gas Surcharge | 1 | \$9.00 |
| MIDAMWA | Damage Protection Declined | 1 | \$0.00 |
| INCRSBB | Criss-Cross Bungee Basketball | 1 | \$0.00 |
| SPSP | Speed Pitch | 1 | \$0.00 |
| CRSAAR | Sand Art | 300 | \$0.00 |
| Order subtotal | | | \$4,659.00 |
| Discount | | 0.00 % | \$0.00 |
| Taxable Amount | | | \$0.00 |
| Sales Tax | | 0.00 % | \$0.00 |
| Delivery | | | \$0.00 |
| Total | | | \$4,659.00 |
| Amount Paid | | | \$0.00 |
| Balance Due | | | \$4,659.00 |

Start Date & Time: Fri, Oct 23, 2020 5:00 pm

End Date & Time: Fri, Oct 23, 2020 8:00 pm

Delivery method: On Site

Surface type: Grass

Additional Notes:

Boo Bash Event.

CA will provide six staff:

1 - Slam Dunk Basketball

1 - Rock Climb N' Slide

1 - Speed Pitch

1 - Criss Cross Bungee Basketball

2 - Sand Art

Client will provide a table:

1 - Strike a Pose (props)

Client will provide power; 8 - 20 amp circuits.

On-site contact TBA.

Deposit of 50% and Signed Confirmation due by May 14, 2020.

TERMS AND CONDITIONS

1. CLIENT MUST RETURN THIS SIGNED AGREEMENT, DEPOSIT IF INDICATED, AND DIRECTIONS TO THE SITE FROM THE NEAREST MAIN INTERSECTION WITHIN 7 DAYS OF CONTRACT RECEIPT, BUT BEFORE THE EVENT DATE, TO RESERVE EQUIPMENT AND ENTERTAINMENT. DEPOSITS ARE NON-REFUNDABLE OR TRANSFERABLE, CLIENT MAY PAY BALANCE ONLY VIA CORPORATE CHECK, CASH, CASHIER'S CHECK OR MONEY ORDER. PERSONAL CHECKS MAY NOT BE USED FOR FINAL PAYMENTS. BALANCE MUST BE PAID AT ARRIVAL UNLESS CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY STATES DIFFERENTLY ON THIS AGREEMENT FORM. CLOWNING AROUND ENTERTAINMENT, INC./ A CELEBRATION AUTHORITY RESERVES THE RIGHT, WITHOUT NOTICE, TO WITHHOLD SERVICES FOR NON-PAYMENT OF OUTSTANDING INVOICES OR BALANCE DUE.
THIS CONTRACT IS NON-CANCELLABLE. THE BALANCE OF THIS FULL CONTRACT PRICE IS DUE AND PAYABLE TO CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY NOT LATER THAN THE DATE FOR THE DELIVERY OF THE EQUIPMENT AND/OR SERVICES TO BE RENDERED, WHETHER OR NOT CUSTOMER ACCEPTS DELIVERY.
2. ALL CHANGES MUST BE MADE 7 BUSINESS DAYS PRIOR TO EVENT.
3. BY ACCEPTING DELIVERY OF ITEMS, CUSTOMER AGREES TO ALL TERMS AND CONDITIONS SHOWN ON THIS CONTRACT.
4. CUSTOMER SHALL PROVIDE ADEQUATE AND LEGAL PARKING AND UNLOADING AREAS FOR PERFORMER(S) AND DELIVERY VEHICLE(S). CUSTOMER AGREES TO REIMBURSE CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY FOR ANY PARKING FEES INCURRED.
5. CUSTOMER ASSUMES FULL RESPONSIBILITY FOR ALL ITEMS, INCLUDING THEIR SAFE AND PROPER USE, OPERATION, MAINTENANCE AND RETURN TO CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY. CUSTOMER IS RESPONSIBLE FOR ALL LOSS, DAMAGE, OR REPAIR.
6. IN THE EVENT OF MECHANICAL FAILURE CUSTOMER WILL BE GIVEN EXTRA RUNNING TIME OR CREDIT FOR ACTUAL DOWN TIME.
7. CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY MAKES NO WARRANTIES OF MERCHANT ABILITY OR FITNESS FOR PARTICULAR PURPOSE, OR ANY WARRANTIES , EXPRESSED OR IMPLIED.
8. THIS CONTRACT FORMS THE SOLE AGREEMENT BETWEEN THE CUSTOMER AND CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY. THE CUSTOMER AGREES TO INDEMNIFY AND HOLD CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY HARMLESS FOR ANY CLAIMS FROM CUSTOMERS USE OR MISUSE, INCLUDING ANY THIRD PARTIES FOR LOSS, INJURY, AND DAMAGE TO PERSONS OR PROPERTY ARISING OUT OF THE CUSTOMER'S NEGLIGENCE OR OPERATION INCLUDING LEGAL COSTS INCURRED IN DEFENSE OF SUCH CLAIMS.
9. OPERATORS SHOULD READ ALL WARNINGS AND INSTRUCTIONS (SAFETY INSTRUCTIONS).
10. RETAKING OF EQUIPMENT: IF CUSTOMER FAILS TO RETURN ALL RETURNED ITEMS UPON AGREED TIME, CUSTOMER AGREES TO PAY FOR ALL ADDITIONAL CHARGES. IF CUSTOMER REFUSES TO RETURN ITEMS, THE CUSTOMER AGREES THAT CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY AND ITS AGENTS MAY TAKE ALL ACTIONS REASONABLE NECESSARY TO RECOVER ITEMS WITHOUT PRIOR NOTICE OR LEGAL PROCESS.
11. CUSTOMER ACKNOWLEDGES THE POSSIBILITY OF INJURY AND WILL PROVIDE ADULT SUPERVISION AT ALL TIMES ACCORDING TO THE RULES GIVEN TO PARTY HOST/CLIENT PRIOR TO EVENT, WRITTEN INSTRUCTION, OR VERBAL.
12. ATTORNEY FEES: CUSTOMER AGREES TO PAY ALL REASONABLE ATTORNEY FEES AND COURT COSTS INCURRED BY CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY IN ENFORCING THESE TERMS AND CONDITIONS.
13. CLOWNING AROUND ENTERTAINMENT, INC./CELEBRATION AUTHORITY, ITS OFFICERS, AGENTS, ASSIGNS, EMPLOYEES, CONTRACTORS, SUPPLIERS AND/OR VENDORS SHALL NOT BE RESPONSIBLE FOR ANY CLAIMS OF DAMAGES, INCLUDING BUT NOT LIMITED TO PERSONAL INJURY AND/OR PROPERTY DAMAGE, OCCURRING TO CUSTOMERS OR ANY USING PARTY ARISING FROM THE USE OF THE EQUIPMENT. CUSTOMER AGREES TO INDEMNIFY AND HOLD HARMLESS CLOWNING AROUND ENTERTAINMENT, INC./CELEBRATION AUTHORITY, IT'S OFFICERS, AGENTS ASSIGNS, EMPLOYEES, CONTRACTORS, SUPPLIERS AND/OR VENDORS FROM ANY AND ALL CLAIMS FOR DAMAGES TO PERSON OR TO PROPERTY AND CLAIMS FOR LOSS, DAMAGE AND/OR THEFT ARISING OUT OF THE USE OF THE EQUIPMENT, AND AT ITS/HIS/HER OWN EXPENSE TO DEFEND ANY SUIT OR ACTION BROUGHT AGAINST CLOWNING AROUND ENTERTAINMENT, INC./CELEBRATION AUTHORITY, IT'S OFFICERS, AGENTS, ASSIGNS, EMPLOYEES, CONTRACTORS, SUPPLIERS AND/OR VENDORS FOUNDED UPON THE CLAIM OF SUCH DAMAGE OR LOSS OR THEFT.
14. CLIENT STATES AND AGREES THAT EVENT IS A CLOSED EVENT AND NOT OPEN TO THE PUBLIC UNLESS DOCUMENTED DIFFERENTLY ON CONTRACT.
15. CLIENT WILL COOPERATE AND ALLOW CLOWNING AROUND ENTERTAINMENT, INC./CELEBRATION AUTHORITY TO REQUIRE ON SITE WAIVERS FROM PARTICIPANTS IF DETERMINED IT IS NEEDED BY CLOWNING AROUND ENTERTAINMENT, INC./CELEBRATION AUTHORITY.
16. ANY CHANGES AFTER THE CONTRACT HAS BEEN WRITTEN WILL RESULT IN A \$25.00 PROCESSING FEE.
17. DAMAGE PROTECTION: IF YOU PAY THE DAMAGE WAIVER CHARGE (DWC) AS SPECIFIED, SUBJECT TO THE LIMITATIONS AND EXCLUSIONS BELOW, CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY AGREES TO MODIFY THE TERMS OF THIS CONTRACT AND RELIEVE YOU OF LIABILITY FOR ACCIDENTAL DAMAGE TO THE ITEM(S) ON THIS CONTRACT, AND FOR LOSS DUE TO FIRE, COLLISION, WINDSTORM, UPSET, AND RIOT. WE EXCLUDE FROM THIS WAIVER, HOWEVER, ANY LOSS OR DAMAGE DUE TO THEFT, BURGLARY, MISUSE OR ABUSE, THEFT BY CONVERSION, INTENTIONAL DAMAGE, MYSTERIOUS DISAPPEARANCE OR ANY LOSS DUE TO YOUR FAILURE TO CARE FOR THE ITEM(S) AS A PRUDENT PERSON WOULD HIS/HER OWN PROPERTY. IN ADDITION, THIS WAIVER DOES NOT INCLUDE AND/OR COVER PERSONAL INJURY OR DEATH. IF ANY LOSS TENDS TO INDICATE A CRIME MAY HAVE BEEN COMMITTED, A FURTHER CONDITION OF THIS WAIVER IS THAT YOU MUST FILE A REPORT TO THE PROPER LAW ENFORCEMENT AUTHORITIES AND FURNISH US A COPY. IN ADDITION, IF YOU HAVE INSURANCE FOR THE LOSS OR DAMAGE, YOU SHALL EXERCISE, AND SHALL EMPOWER US TO EXERCISE, ALL YOUR RIGHTS TO OBTAIN RECOVERY UNDER INSURANCE. SHALL COOPERATE WITH CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY TO OBTAIN RECOVERY AND ALL INSURANCE PROCEEDS SHALL BE GIVEN OR ASSIGNED TO CLOWNING AROUND ENTERTAINMENT, INC./A CELEBRATION AUTHORITY.
18. ALL CREDIT CARD TRANSACTIONS WILL HAVE A 3.90% and ZELLE 2.5% CONVENIENCE FEE ADDED.

SIGNED _____ DATE _____

Village of Lincolnshire Special Event Schedule

| Event | Date(s) | Time | Location |
|-----------------------|--------------------|----------------------------------|---------------------------|
| Memorial Day | Monday, May 25 | 10:30 a.m. | Spring Lake Park |
| Food Truck Fridays | May 29 - August 21 | 11 a.m.-2 p.m. | 300 Knightsbridge Parkway |
| Red, White, & BOOM! | Friday, July 3 | 3 rd : 4-10 p.m. | Spring Lake Park |
| | Saturday, July 4 | 4 th : 8 a.m.-10 p.m. | |
| Heroes Night | Friday, August 28 | 4-7 p.m. | North Park |
| Boo Bash | Friday, October 23 | 5-8 p.m. | North Park |
| Holiday Tree Lighting | Friday, December 4 | 5:30 p.m. | Village Green Center |



ITEM SUMMARY

| | |
|---------------------------------------|---|
| Reviewing Body / Meeting Date: | Committee of the Whole |
| Subject: | 2020 Capital Improvement Project Status |
| Action Requested | Discussion and Consideration of Direction to Proceed with Bidding for Various 2020 Capital Improvement Projects (Village of Lincolnshire) |
| Prepared By: | Wally Dittrich – Assistant Public Works Director/Village Engineer |
| Staff Recommendation: | Proceed with Bidding Specified Projects |
| Budgeted Amount: | N/A |
| Actual Amount: | N/A |
| Level of Service Impact: | TBD |
| Meeting History: | N/A |
| Tentative Meeting Schedule: | April 27, 2020 Committee of the Whole |
| Reports / Documents Attached: | N/A |

Request Summary

Given the current awareness of implementing certain capital improvement projects and the anticipated impacts to the Village’s revenues due to COVID-19, staff seeks the Village Board’s concurrence to proceed/delay certain projects.

Project Description

The 2020 Budget includes funds allocated for the following projects where decisions on bidding need to be made if they are to be delivered in the 2020 fiscal year:

Facility Improvements:

- Security System Improvements at Village Hall and Public Works - \$120,000
- Flooring Replacements at Village Hall - \$120,000
- Brick/Capstone Repairs at Village Hall - \$95,000

Stormwater Improvements:

- Lincolnshire Drive Drainage Improvements - \$175,000
- Misc Stormwater Improvements - \$260,000

At this time, staff recommends proceeding with soliciting bids for the Brick/Capstone Repair Project and the Lincolnshire Drive Drainage Improvement Project. The Security System Improvements, Flooring Replacements, and Misc. Stormwater Improvements are recommended to be put on hold at this time. These projects could be bid out later in the year or deferred to the 2021 budget as additional information regarding COVID-19’s impacts to the Villages budget becomes better understood. The Miscellaneous Storm Water Improvement project is not tied to a specific scope of work at this time. Funds were budgeted contemplating a possible project that may result from the final release of the Village-Wide Drainage Study. Once the study is complete and presented to the Village Board for consideration, there will be another opportunity for the Village Board to consider providing direction on a possible storm water improvement project at that time.



Budget Impact

Approximately \$500,000 in spending would be deferred from the 2020 budget.

Level of Service Impact

N/A

Approval Process

Consensus from the Board requested at this time.

Staff Recommendation / Next Steps

Staff will prepare the Brick/Capstone Repair Project and the Lincolnshire Drive Drainage Improvement Projects for bidding and bring back the results for the board's approval.



ITEM SUMMARY

| | |
|--|---|
| Reviewing Body: | Committee of the Whole |
| Meeting Date: | April 27, 2020 |
| Subject: | Consideration of Approval of a Contract with Graybar, Inc., Arlington Heights, IL at a Cost not to Exceed \$86,941.06 for the North Park Lighting Replacement Project |
| Prepared By: | Bradford H. Woodbury – Public Works Director |
| Staff Recommendation: | Consideration and discussion |
| Budgeted Amount: | \$100,000.00 |
| Actual Amount: | \$86,941.06 |
| Level of Service Impact: | Not applicable |
| Tentative Meeting Schedule: | April 27, 2020 May 13, 2020 |
| Reports and Documents Attached: | 1) Graybar Inc. North Park Lighting Proposal 2) G.E. (LED) Evolve Specifications 3) ComEd Powering Safe Communities Grant |

Request Summary

Approval of a proposal with Graybar Inc. of Arlington Heights, Illinois to replace ninety-one (91) light fixtures throughout the North Park athletic facility. This project would consist of converting all of the existing parks lighting to energy efficient LED lighting.

Project Description

The actual project would consist of replacement of the light heads in the following areas at North Park: (1) parking lot areas (2) playground areas (3) walkways (4) concession building area (5) picnic areas (6) building soffit lighting (7) internal bathroom lighting (8) external/internal maintenance building lighting. The majority of these lights are approximately seventeen (17) year old high-pressure sodium bulbs which burn/project an orange color hue.

Over the past several years, maintenance of these lights have become costly in terms of staff time repairing and troubleshooting. Given the age of these light systems, the units are no longer energy efficient. Some of the frequent repairs made to these lights include bulbs, ballast, photocells and failing seals. Yet another issue are the deterioration of the plastic pieces encasing the fixtures on light poles as a result of the high operating temperatures. The larger plastic egg-shaped enclosures have discolored and become brittle. Many of the current heads are cracked leaving the inside of the light and its components exposed to the elements which could fill with snow and rain.

While researching various purchase options, staff reviewed the Omnia Partners Contract #EV2370 awarded to Graybar under Electrical, Lighting, Data/Communication, Networking,



Wireless, Security & Related MRO Supplies. Labor required for the light repair/replacement work has also been bid separately by Graybar, and All-Tech Electric was the lowest responsible bidder. The Village of Lincolnshire may utilize the Omnia Partners (*formerly U.S. Communities*) contract as this is competitively bid, and the Village Board previously authorized participating in this joint purchasing program in November of 2016.

Below are photos which detail the types of lights scheduled for replacement as part of this project:



Figure 1: Parks Lighting



Figure 2: Parking Lot Lighting



Figure 3: External Building Lighting



Figure 4: External Building Lighting



Figure 5: Internal Building Lighting

Staff does not plan to replace the actual light poles as part of this project.

Budget Impact

The 2020 budget includes \$100,000 in Parks General Capital account #51-22-86-1402 towards this project. The proposal from Graybar Inc. is \$86,941.06. Staff has also applied for a ComEd "Powering Safe Communities" grant through the Metropolitan Mayors Caucus which could reduce the total project cost by an additional \$10,000.

Level of Service Impact

Converting the current light structures to LED lights would reduce the staff time spent maintaining (troubleshooting/repairing/replacing) and also save an estimated roughly \$2,400 annually in operating costs.

Approval Process

An initial review by the Committee of the Whole on April 27, 2020, with a recommendation to be placed on the Consent Agenda for final approval on May 11, 2020.



Staff Recommendation / Next Steps

Staff's recommends approval of the replacement of ninety-one (91) light fixtures at North Park in an amount not to exceed \$86,941.06.



900 REGENCY DR
 GLENDALE HEIGHTS IL 60139-2287
 Phone: 630-671-6000
 Fax: 630-671-6953

To: VILLAGE OF LINCOLNSHIRE
 1 OLDE DAY HALF ROAD
 LINCOLNSHIRE IL 60069
 Attn: TIMOTHY BAYNON
 Phone: 847-883-8600
 Fax:
 Email: JMARKHAM@LINCOLNSHIREIL.GOV

Date: 03/24/2020
Proj Name: NORTH PARK LED UPGRADE
GB Quote #: 0235013810
 Release Nbr:
 Purchase Order Nbr:
 Additional Ref#
 Valid From: 03/20/2020
 Valid To: 04/19/2020
 Contact: ALDO MALDONADO
 Email: aldo.maldonado@graybar.com

Proposal

We Appreciate Your Request and Take Pleasure in Responding As Follows

| Item | Item/Type | Quantity | Supplier | Catalog Nbr | Description | Price | Unit | Ext.Price |
|---|-----------|----------|------------------|---|--|------------|------|-------------|
| 100 | | 15 EA | GENERAL ELECEALS | O3H3AW74 ONDD1BLCK | | \$920.78 | 1 | \$13,811.70 |
| 200 | | 20 EA | SENTRY ELEC | SWW LXFP LEDV29B-1.05A 4000K KHT5-VFBK | | \$1,806.76 | 1 | \$36,135.20 |
| 300 | | 20 EA | | INBOUND FREIGHT FOR FIXTURES | | \$45.00 | 1 | \$900.00 |
| 500 | | 34 EA | LITHONIA LTG | BLWP4 48L ADP LP840 | LED LOW PROFILE 4FT WRAP 4800LM 3500K | \$101.43 | 1 | \$3,448.62 |
| GB Part #: 26391667 UPC #: | | | | | | | | |
| 600 | | 4 EA | LITHONIA LTG | KAXW LED P1 40K R3 MVOLT DDBXD | LED WALL PACK 4000K SURFACE MNT DRK BRNZ | \$344.16 | 1 | \$1,376.64 |
| GB Part #: 25872092 UPC #: 19088720957 | | | | | | | | |

This equipment and associated installation charges may be financed for a low monthly payment through Graybar Financial Services (subject to credit approval). For more information call 1-800-241-7408 to speak with a leasing specialist.

To learn more about Graybar, visit our website at www.graybar.com

24-Hour Emergency Phone#: 1-800-GRAYBAR

This Graybar quote is based on the terms of sale in the EV2370 Master Agreement which can be found by clicking the link found at https://www.omniapartners.com/hubfs/PUBLIC%20SECTOR/Supplier%20Information/Graybar/EV2370_Graybar_MAD_2017_12_20.pdf

To: VILLAGE OF LINCOLNSHIRE
1 OLDE DAY HALF ROAD
LINCOLNSHIRE IL 60069
Attn: TIMOTHY BAYNON

Date:
Proj Name:
GB Quote #:

03/24/2020
NORTH PARK LED UPGRADE
0235013810

Proposal

We Appreciate Your Request and Take Pleasure in Responding As Follows

| | | | | | | | |
|---|-------|----------------------|---|--|-------------|---|--------------------|
| 800 | 14 EA | LITHONIA LTG | LDN8RV 40/60 LR8AR LSS MVOLT GZ10 | | \$334.68 | 1 | \$4,685.52 |
| 900 | 4 EA | LITHONIA LTG | CNY LED P2 40K MVOLT DDB M4 | CNY LED CANOPY 6600LM 4000K DRK BRNZ | \$123.38 | 1 | \$493.52 |
| GB Part #: 26069503 UPC #: 19184809334 | | | | | | | |
| 1000 | 1 EA | ALL TECH ELECTRIC | LABOR | | \$26,089.86 | 1 | \$26,089.86 |
| Total in USD (Tax not included): | | | | | | | \$86,941.06 |

This equipment and associated installation charges may be financed for a low monthly payment through Graybar Financial Services (subject to credit approval). For more information call 1-800-241-7408 to speak with a leasing specialist.

To learn more about Graybar, visit our website at www.graybar.com

24-Hour Emergency Phone#: 1-800-GRAYBAR

This Graybar quote is based on the terms of sale in the EV2370 Master Agreement which can be found by clicking the link found at https://www.omniapartners.com/hubfs/PUBLIC%20SECTOR/Supplier%20Information/Graybar/EV2370_Graybar_MAD_2017_12_20.pdf

To: VILLAGE OF LINCOLNSHIRE
1 OLDE DAY HALF ROAD
LINCOLNSHIRE IL 60069
Attn: TIMOTHY BAYNON

Date:
Proj Name:
GB Quote #:

03/24/2020
NORTH PARK LED UPGRADE
0235013810

Proposal

We Appreciate Your Request and Take Pleasure in Responding As Follows

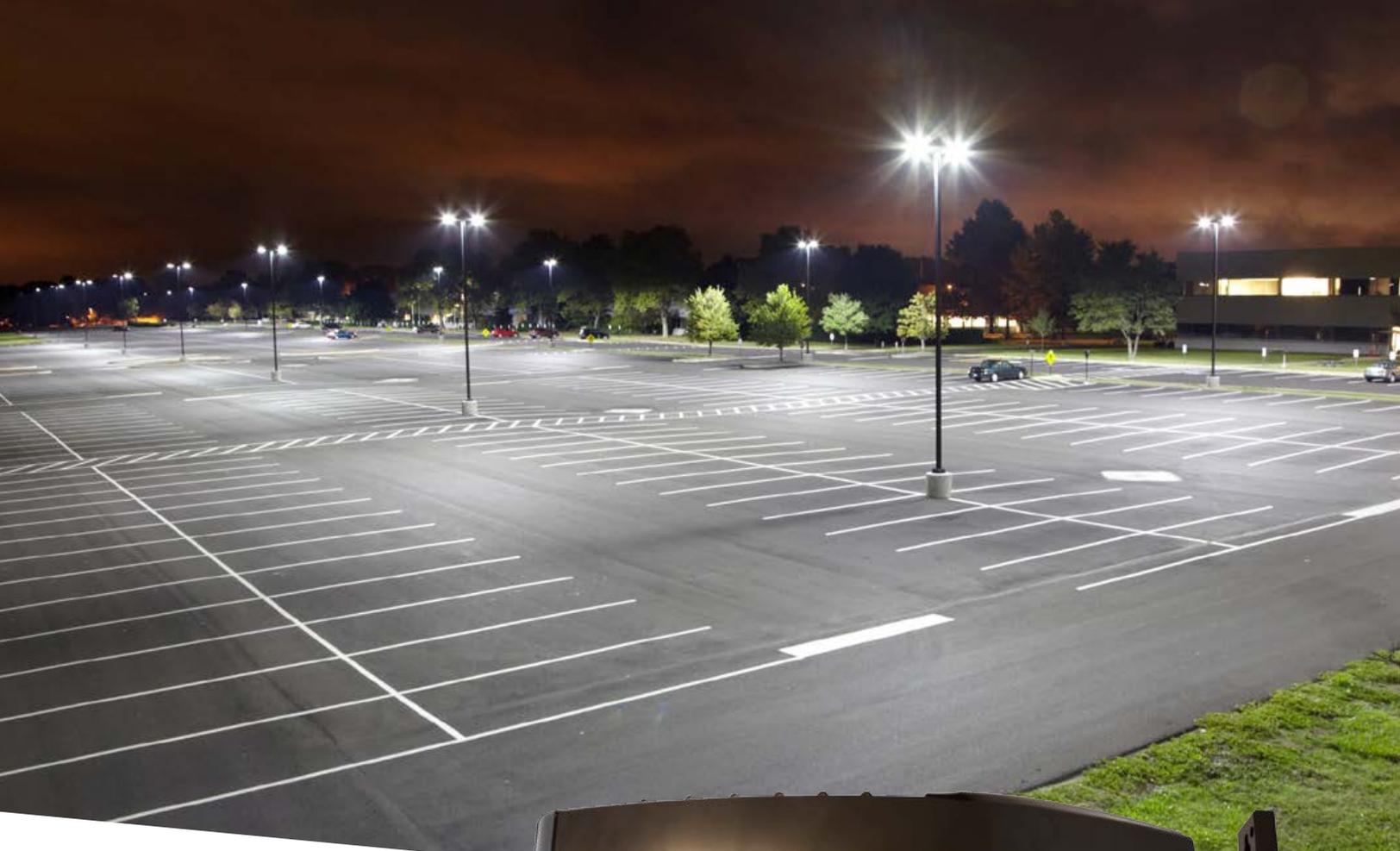
Signed: _____

This equipment and associated installation charges may be financed for a low monthly payment through Graybar Financial Services (subject to credit approval). For more information call 1-800-241-7408 to speak with a leasing specialist.

To learn more about Graybar, visit our website at www.graybar.com

24-Hour Emergency Phone#: 1-800-GRAYBAR

This Graybar quote is based on the terms of sale in the EV2370 Master Agreement which can be found by clicking the link found at https://www.omniapartners.com/hubfs/PUBLIC%20SECTOR/Supplier%20Information/Graybar/EV2370_Graybar_MAD_2017_12_20.pdf



GE Evolve™
LED Area Lighting
EALS-03 & EALP-03

current
powered by GE



Product Features

The **EAL Area Light** luminaires offer a wide range of optical patterns, color temperatures, lumen packages, and mounting configurations to optimize area light applications, as well as provide versatility in lighting design within the same form-factor. They are ideal for commercial property site-lighting applications such as retail and commercial exteriors. The EALS (standard) area light has a lumen range from 7,500-30,000 lumens. The EALP (premium) offers a similar lumen range of 25,000 to 70,000 lumens but with higher LPW and better lumen maintenance.

Both the **EALS-03** and **EALP-03** feature our innovative, highly flexible Universal Mounting Arm option, which provides installers the ability to mount the EAL fixtures on both round and square poles of multiple sizes. In addition, it features both in-line and offset bolt patterns which enable it to easily be affixed to the majority of the bolt patterns one would encounter in the field.

Applications

- Site and area light applications such as parking lots, retail exteriors, commercial exteriors, roadways and other general lighting applications

Housing

- Slim architectural design incorporates an integral heat sink and light engine, ensuring maximum heat transfer, and long LED life.
- Die cast aluminum housing
- 3G vibration per ANSI C136.31-2010

LED & Optical Assembly

- LM-79 tests and reports in accordance with IESNA standards
- Upward Light Output Ratio (ULOR) = 0 (horizontal orientation)
- 70CRI at 3000K, 4000K and 5000K
- Distributions: II, III, IV, V



Lumen Maintenance

- Projected Lxx per IES TM-21 at 25 °C for reference:

| EALS03 Optical code | Lxx (10k) @ Hours | | |
|--------------------------------|-------------------|-----------|------------|
| | 25,000 hr | 50,000 hr | 100,000 hr |
| C2, C3, C4, C5, D2, D3, D4, D5 | L95 | L92 | L86 |
| F5, H2, H3, H4, H5 | L95 | L92 | L86 |
| F2, F3, F4, J2, J3, J4, J5 | L94 | L89 | L81 |
| K2, K3, K4, K5 | L94 | L89 | L81 |

| EALP03 Optical code | Lxx (10k) @ Hours | | |
|--------------------------------|-------------------|-----------|------------|
| | 25,000 hr | 50,000 hr | 100,000 hr |
| J5, K2, K3, K4, K5 | L97 | L96 | L94 |
| L2, L3, L4, L5, M2, M3, M4, M5 | L97 | L96 | L94 |
| J2, J3, J4, N2, N3, N4, N5 | L94 | L91 | L84 |
| P2, P3, P4, P5, Q2, Q3, Q4, Q5 | L94 | L91 | L84 |

Note: 1) Projected Lxx based on LM80 (10,000 hour testing). 2) DOE Lighting Facts Verification Testing Tolerances apply to initial luminous flux and lumen maintenance measurements

Lumen Ambient Temperature Factors:

| Ambient Temp (°C) | Initial Flux Factor |
|-------------------|---------------------|
| 10 | 1.02 |
| 20 | 1.01 |
| 25 | 1.00 |
| 30 | 0.99 |
| 40 | 0.98 |



DLC Standard qualified models available. Please refer to <http://www.designlights.org/QPL> for complete information.



DLC Premium qualified models available. Please refer to <http://www.designlights.org/QPL> for complete information.

Ratings

- eUL cUL Listed
- UL 1598 Listed Suitable for Wet Locations
- IP65 optical enclosure per ANSI C136.25-2013
- Operating Temperature -40°C to +40°C (maximum of +35°C for 570W)
- California Title 24 compliant (w/ "H" motion sensor option)

Mounting

Option C1: Integral Slipfitter for 1.25"-2" Pipe (1.66 in. OD-2.378 in. OD) supplied with leads. +/- 5 deg adjustment for leveling.

Option D1: Universal Mounting Arm, fitted for round or square pole mounting supplied with 16/3 3ft cable.

Option K1: Knuckle Slipfitter for 1.9 in.-2.3 in. OD Tenon with leads. Restricted aiming angle 0° to +45°.

Option S1: Knuckle Slipfitter for 2.3 in.- 3.0 in OD Tenon with leads. Restricted aiming angle 0° to +45°.

Option V1: Knuckle Wall Mount with leads. Restricted aiming angle 0° to +45°.

Finish

- Corrosion resistant polyester powder paint, minimum thickness 2.0 mil.
- Standard colors: Black, Dark Bronze, Aluminum, Gray & White.
- RAL & custom colors available.
- Optional coastal finish available.

Electrical

- 120-277 VAC and 347-480 VAC available.
- System power factor is >90% and THD <20%.
- ANSI C136.41 7-pin dimming receptacle, standard.
- ANSI photo electric sensors (PE) available for all voltages.
- LightGrid™ compatible.
- Dimming/Occupancy:
 - Standard: 0-10V; Optional: DALI (120-277V, excluding 400 watts and above)
 - Externally wired 0-10V dimming (optional)
 - DALI digital dimming. Contact manufacturer for availability.
 - Standalone dimming occupancy sensor with ambient light sensor, option code "H".
 - Daintree occupancy sensor available.
- Surge Protection tested per ANSI C136.2-2015.
 - 6kV/3kA "Basic" surge protection, standard.
 - 10kV/5kA "Enhanced" surge protection optional.

Warranty

- 5 Year Standard

Accessories

- Photoelectric Controls (see page 10)
- Light Shields (see Data Sheet OLP 3120 Shielding for EAL Area Light Fixtures)

Ordering Number Logic

Evolve™ LED Area Light (EALS-03)



E ALS 03 7

| PROD. ID | GENERATION | VOLTAGE | OPTICAL DISTRIBUTION CODE | CRI | CCT | DIMMING | CONTROLS | MOUNTING ARM | COLOR | OPTIONS |
|----------|------------|---------|---------------------------|-----|-----|---------|----------|--------------|-------|---------|
|----------|------------|---------|---------------------------|-----|-----|---------|----------|--------------|-------|---------|

E = Evolve
AL = Area Light
S = Standard

03 = 3rd Generation

0 = 120-277*
1 = 120
2 = 208
3 = 240
4 = 277
5 = 480
D = 347
H = 347-480*
 *Not available with Fusing.
 Must choose a decrest voltage with F Option

SM = Symmetric Medium
SW = Symmetric Wide
SH = Symmetric High Angle
AF = Asymmetric Forward
AH = Asymmetric High Angle
AW = Asymmetric Wide
AN = Asymmetric Narrow/Auto

7 = 70 (min)

30 = 3000K
40 = 4000K
50 = 5000K
 ◊Select 3000K CCT for IDA Approved units

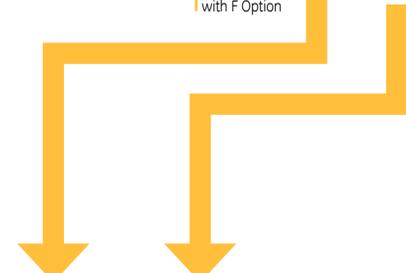
N = Dimming thru PE receptacle
D = External Dimming 18/2-3ft cable
X = Non-dimmable*
 All constructions supplied with ANSI C136.41 7-pin Receptacle
 *Required for Cx Optical Codes. Not available for other optical codes.
Note: Standard dimming 0-10V

A = ANSI 7-pin PE receptacle (no control)
D = ANSI 7-pin PE receptacle with shorting cap provided
Note: See accessories section on page 10 for PE Control ordering

C1 = Integral Slipfitter for 1.25" - 2" Pipe (1.66in. OD - 2.378in. OD)*
D1 = Universal Mounting Arm, fitted for round or square pole mounting**
K1 = Knuckle Slipfitter for 1.9 in - 2.3in. OD Tenon***
S1 = Knuckle Slipfitter for 2.3in. - 3.0in OD Tenon***
V1 = Knuckle Wall Mount***
 * Supplied with 3FT leads
 ** Supplied with 3FT #14/3 power cable
 *** Restricted Aiming Angle 0° to +45°

GRAY = Gray
BLCK = Black
DKBZ = Dark Bronze
WHITE = White

F = Fusing
H = Motion Sensor (Sensor Switch)
H2 = Motion Sensor (Daintree)
J = cUL/Canada
L = Tool-Less Entry
R = Enhanced Surge Protection (10kV/5kA)
S1 = Rotated Left †
S2 = Rotated Right †
T = Elevated Surge Protection (20kV/10kA)
U = DALI dimming ^+
V = 3-Position Terminal Block Y = Coastal Finish
XXX = Special Options



* Contact Manufacturer for availability
 + Compatible with LightGrid 2.0 nodes
 ^ Not compatible at 347-480V or with motion sensor control
 † For aimed left or right light distribution orientation, as assembled in manufacturing. Not applicable for Symmetric Distributions.
Note: H2 option not available at 370V-480V

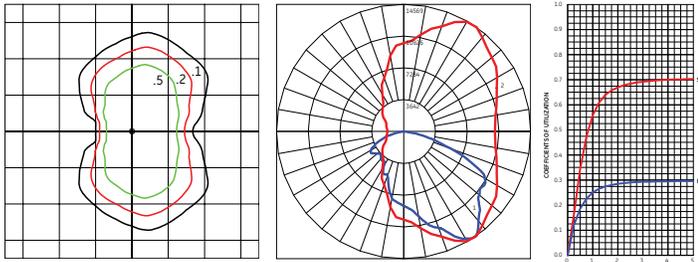


| TYPE | OPTICAL CODE | DISTRIBUTION | TYPICAL INITIAL LUMENS | | TYPICAL SYSTEM WATTAGE | BUG RATING | | IES FILE NUMBER | | |
|----------|-----------------------------|-----------------------------|------------------------|---------------|------------------------|-------------|--------------------|-----------------------|-----------------------|-----------------------|
| | | | 3000K | 4000K & 5000K | 120-277V & 347-480V | 3000K B-U-G | 4000 & 5000K B-U-G | IES FILE NUMBER 3000K | IES FILE NUMBER 4000K | IES FILE NUMBER 5000K |
| Type V | C5 | Symmetric Medium (SM) | 7300 | 7500 | 46 | B3-U0-G1 | B3-U0-G1 | EALS03_C5SM730_IES | EALS03_C5SM740_IES | EALS03_C5SM750_IES |
| | D5 | Symmetric Medium (SM) | 9800 | 10000 | 64 | B3-U0-G1 | B3-U0-G1 | EALS03_D5SM730_IES | EALS03_D5SM740_IES | EALS03_D5SM750_IES |
| | F5 | Symmetric Medium (SM) | 14700 | 15000 | 101 | B4-U0-G2 | B4-U0-G2 | EALS03_F5SM730_IES | EALS03_F5SM740_IES | EALS03_F5SM750_IES |
| | H5 | Symmetric Medium (SM) | 19600 | 20000 | 140 | B4-U0-G2 | B4-U0-G2 | EALS03_H5SM730_IES | EALS03_H5SM740_IES | EALS03_H5SM750_IES |
| | J5 | Symmetric Medium (SM) | 24500 | 25000 | 186 | B4-U0-G2 | B4-U0-G2 | EALS03_J5SM730_IES | EALS03_J5SM740_IES | EALS03_J5SM750_IES |
| | K5 | Symmetric Medium (SM) | 29400 | 30000 | 239 | B5-U0-G3 | B5-U0-G3 | EALS03_K5SM730_IES | EALS03_K5SM740_IES | EALS03_K5SM750_IES |
| | C5 | Symmetric Wide (SW) | 7300 | 7500 | 46 | B2-U0-G1 | B2-U0-G1 | EALS03_C5SW730_IES | EALS03_C5SW740_IES | EALS03_C5SW750_IES |
| | D5 | Symmetric Wide (SW) | 9800 | 10100 | 64 | B3-U0-G1 | B3-U0-G1 | EALS03_D5SW730_IES | EALS03_D5SW740_IES | EALS03_D5SW750_IES |
| | F5 | Symmetric Wide (SW) | 14700 | 15100 | 101 | B3-U0-G2 | B3-U0-G2 | EALS03_F5SW730_IES | EALS03_F5SW740_IES | EALS03_F5SW750_IES |
| | H5 | Symmetric Wide (SW) | 19700 | 20200 | 140 | B4-U0-G2 | B4-U0-G2 | EALS03_H5SW730_IES | EALS03_H5SW740_IES | EALS03_H5SW750_IES |
| | J5 | Symmetric Wide (SW) | 24600 | 25200 | 186 | B4-U0-G2 | B4-U0-G2 | EALS03_J5SW730_IES | EALS03_J5SW740_IES | EALS03_J5SW750_IES |
| | K5 | Symmetric Wide (SW) | 29600 | 30300 | 239 | B5-U0-G2 | B5-U0-G2 | EALS03_K5SW730_IES | EALS03_K5SW740_IES | EALS03_K5SW750_IES |
| | C5 | Symmetric High Angle (SH) | 7000 | 7200 | 46 | B3-U0-G1 | B3-U0-G1 | EALS03_C5SH730_IES | EALS03_C5SH740_IES | EALS03_C5SH750_IES |
| | D5 | Symmetric High Angle (SH) | 9400 | 9600 | 64 | B3-U0-G2 | B3-U0-G2 | EALS03_D5SH730_IES | EALS03_D5SH740_IES | EALS03_D5SH750_IES |
| | F5 | Symmetric High Angle (SH) | 14200 | 14500 | 101 | B4-U0-G2 | B4-U0-G2 | EALS03_F5SH730_IES | EALS03_F5SH740_IES | EALS03_F5SH750_IES |
| H5 | Symmetric High Angle (SH) | 18900 | 19300 | 140 | B4-U0-G2 | B4-U0-G2 | EALS03_H5SH730_IES | EALS03_H5SH740_IES | EALS03_H5SH750_IES | |
| J5 | Symmetric High Angle (SH) | 23600 | 24100 | 186 | B5-U0-G3 | B5-U0-G3 | EALS03_J5SH730_IES | EALS03_J5SH740_IES | EALS03_J5SH750_IES | |
| K5 | Symmetric High Angle (SH) | 28400 | 29000 | 239 | B5-U0-G3 | B5-U0-G3 | EALS03_K5SH730_IES | EALS03_K5SH740_IES | EALS03_K5SH750_IES | |
| Type IV | C4 | Asymmetric Forward (AF) | 7300 | 7500 | 50 | B1-U0-G2 | B1-U0-G2 | EALS03_C4AF730_IES | EALS03_C4AF740_IES | EALS03_C4AF750_IES |
| | D4 | Asymmetric Forward (AF) | 9800 | 10000 | 70 | B2-U0-G2 | B2-U0-G2 | EALS03_D4AF730_IES | EALS03_D4AF740_IES | EALS03_D4AF750_IES |
| | F4 | Asymmetric Forward (AF) | 14700 | 15000 | 116 | B2-U0-G2 | B2-U0-G2 | EALS03_F4AF730_IES | EALS03_F4AF740_IES | EALS03_F4AF750_IES |
| | H4 | Asymmetric Forward (AF) | 19600 | 20000 | 140 | B3-U0-G3 | B3-U0-G3 | EALS03_H4AF730_IES | EALS03_H4AF740_IES | EALS03_H4AF750_IES |
| | J4 | Asymmetric Forward (AF) | 24500 | 25000 | 186 | B3-U0-G3 | B3-U0-G3 | EALS03_J4AF730_IES | EALS03_J4AF740_IES | EALS03_J4AF750_IES |
| | K4 | Asymmetric Forward (AF) | 29400 | 30000 | 239 | B3-U0-G4 | B3-U0-G4 | EALS03_K4AF730_IES | EALS03_K4AF740_IES | EALS03_K4AF750_IES |
| | C4 | Asymmetric High Angle (AH) | 7000 | 7200 | 50 | B2-U0-G2 | B2-U0-G2 | EALS03_C4AH730_IES | EALS03_C4AH740_IES | EALS03_C4AH750_IES |
| | D4 | Asymmetric High Angle (AH) | 9400 | 9600 | 70 | B2-U0-G2 | B2-U0-G2 | EALS03_D4AH730_IES | EALS03_D4AH740_IES | EALS03_D4AH750_IES |
| | F4 | Asymmetric High Angle (AH) | 14200 | 14500 | 116 | B3-U0-G3 | B3-U0-G3 | EALS03_F4AH730_IES | EALS03_F4AH740_IES | EALS03_F4AH750_IES |
| | H4 | Asymmetric High Angle (AH) | 18900 | 19300 | 140 | B3-U0-G3 | B3-U0-G4 | EALS03_H4AH730_IES | EALS03_H4AH740_IES | EALS03_H4AH750_IES |
| J4 | Asymmetric High Angle (AH) | 23600 | 24100 | 186 | B3-U0-G4 | B3-U0-G4 | EALS03_J4AH730_IES | EALS03_J4AH740_IES | EALS03_J4AH750_IES | |
| K4 | Asymmetric High Angle (AH) | 28400 | 29000 | 239 | B3-U0-G4 | B3-U0-G4 | EALS03_K4AH730_IES | EALS03_K4AH740_IES | EALS03_K4AH750_IES | |
| Type III | C3 | Asymmetric Wide (AW) | 7300 | 7500 | 50 | B2-U0-G1 | B2-U0-G1 | EALS03_C3AW730_IES | EALS03_C3AW740_IES | EALS03_C3AW750_IES |
| | D3 | Asymmetric Wide (AW) | 9800 | 10100 | 70 | B2-U0-G2 | B2-U0-G2 | EALS03_D3AW730_IES | EALS03_D3AW740_IES | EALS03_D3AW750_IES |
| | F3 | Asymmetric Wide (AW) | 14700 | 15100 | 116 | B2-U0-G2 | B2-U0-G2 | EALS03_F3AW730_IES | EALS03_F3AW740_IES | EALS03_F3AW750_IES |
| | H3 | Asymmetric Wide (AW) | 19700 | 20200 | 140 | B3-U0-G2 | B3-U0-G3 | EALS03_H3AW730_IES | EALS03_H3AW740_IES | EALS03_H3AW750_IES |
| | J3 | Asymmetric Wide (AW) | 24600 | 25200 | 186 | B3-U0-G3 | B3-U0-G3 | EALS03_J3AW730_IES | EALS03_J3AW740_IES | EALS03_J3AW750_IES |
| K3 | Asymmetric Wide (AW) | 29600 | 30300 | 239 | B3-U0-G3 | B3-U0-G3 | EALS03_K3AW730_IES | EALS03_K3AW740_IES | EALS03_K3AW750_IES | |
| Type II | C2 | Asymmetric Narrow/Auto (AN) | 7300 | 7500 | 50 | B2-U0-G2 | B2-U0-G2 | EALS03_C2AN730_IES | EALS03_C2AN740_IES | EALS03_C2AN750_IES |
| | D2 | Asymmetric Narrow/Auto (AN) | 9800 | 10100 | 70 | B2-U0-G2 | B2-U0-G2 | EALS03_D2AN730_IES | EALS03_D2AN740_IES | EALS03_D2AN750_IES |
| | F2 | Asymmetric Narrow/Auto (AN) | 14700 | 15100 | 116 | B3-U0-G3 | B3-U0-G3 | EALS03_F2AN730_IES | EALS03_F2AN740_IES | EALS03_F2AN750_IES |
| | H2 | Asymmetric Narrow/Auto (AN) | 19700 | 20200 | 140 | B3-U0-G3 | B3-U0-G3 | EALS03_H2AN730_IES | EALS03_H2AN740_IES | EALS03_H2AN750_IES |
| | J2 | Asymmetric Narrow/Auto (AN) | 24600 | 25200 | 186 | B3-U0-G3 | B3-U0-G3 | EALS03_J2AN730_IES | EALS03_J2AN740_IES | EALS03_J2AN750_IES |
| K2 | Asymmetric Narrow/Auto (AN) | 29600 | 30300 | 239 | B3-U0-G3 | B3-U0-G3 | EALS03_K2AN730_IES | EALS03_K2AN740_IES | EALS03_K2AN750_IES | |

Photometrics

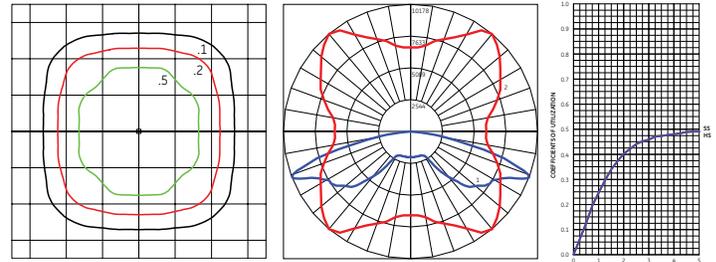
Evolve™ LED Area Light (EALS-03)

EALS Type II - Asymmetric Narrow/Auto
30,300 Lumens, 5000K (EALS03_K2AN750__IES)



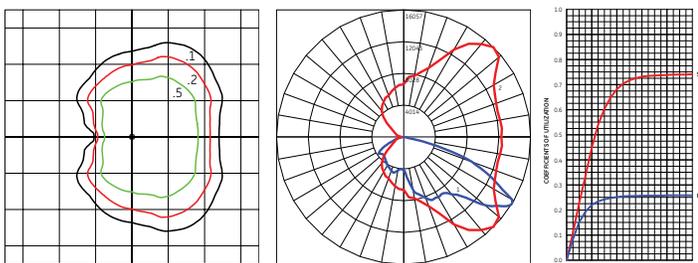
Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade
 — Vertical plane through horizontal angle of maximum candlepower at 55°
 — Vertical plane through horizontal angle of 34°

EALS Type VS - Symmetric High Angle
29,000 Lumens, 5000K (EALS03_K5SH750__IES)



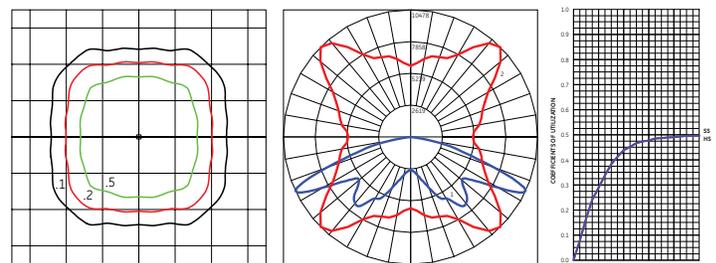
Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade
 — Vertical plane through horizontal angle of maximum candlepower at 50°
 — Vertical plane through horizontal angle of 69°

EALS Type III - Asymmetric Wide
30,300 Lumens, 5000K (EALS03_K3AW750__IES)



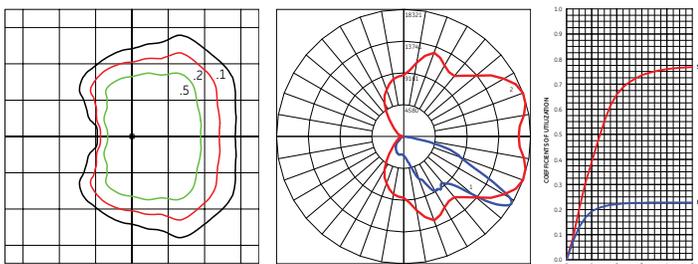
Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade
 — Vertical plane through horizontal angle of maximum candlepower at 45°
 — Vertical plane through horizontal angle of 58°

EALS Type VS - Symmetric Medium
30,000 Lumens, 5000K (EALS03_K5SM750__IES)



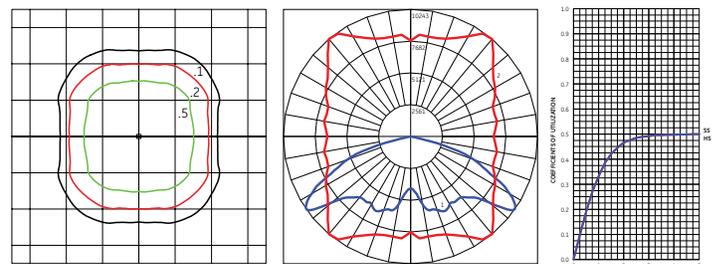
Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade
 — Vertical plane through horizontal angle of maximum candlepower at 45°
 — Vertical plane through horizontal angle of 65°

EALS Type IV - Asymmetric Forward
30,000 Lumens, 5000K (EALS03_K4AF750__IES)



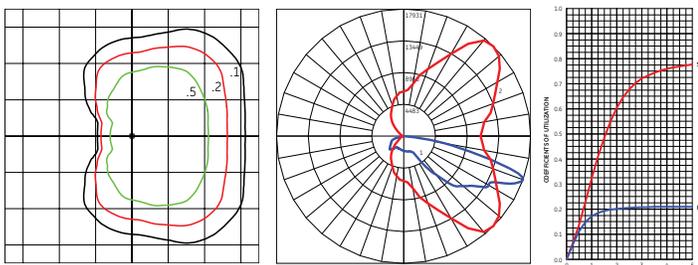
Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade
 — Vertical plane through horizontal angle of maximum candlepower at 20°
 — Vertical plane through horizontal angle of 58°

EALS Type VS - Symmetric Wide
30,300 Lumens, 5000K (EALS03_K5SW750__IES)



Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade
 — Vertical plane through horizontal angle of maximum candlepower at 50°
 — Vertical plane through horizontal angle of 55°

EALS Type IV - Asymmetric High Angle
29,000 Lumens, 5000K (EALS03_K4AH750__IES)

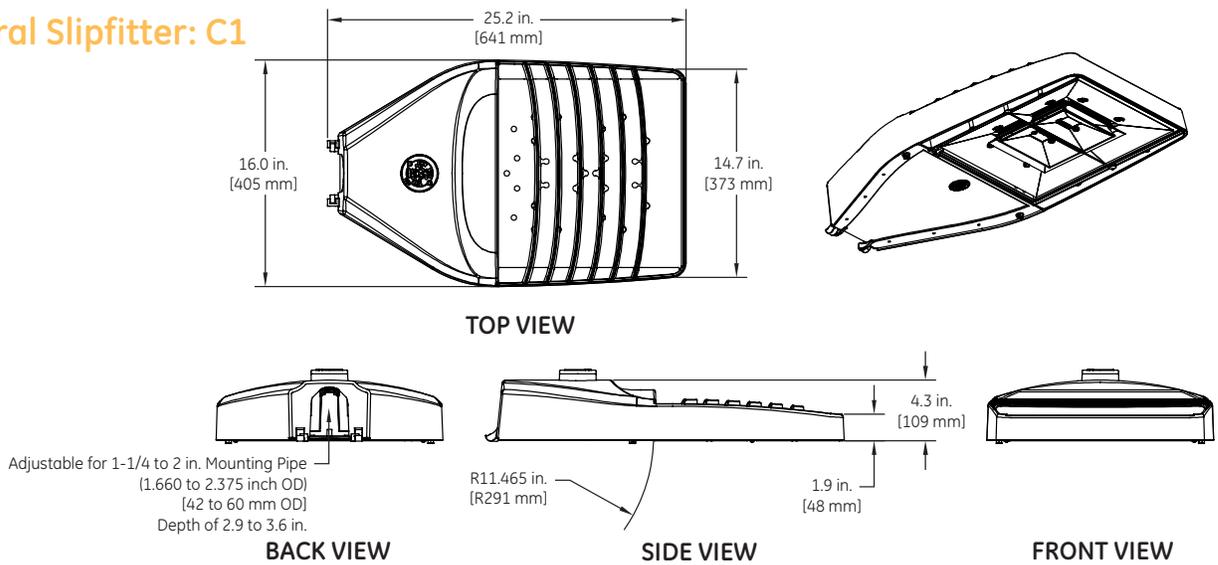


Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade
 — Vertical plane through horizontal angle of maximum candlepower at 45°
 — Vertical plane through horizontal angle of 70°

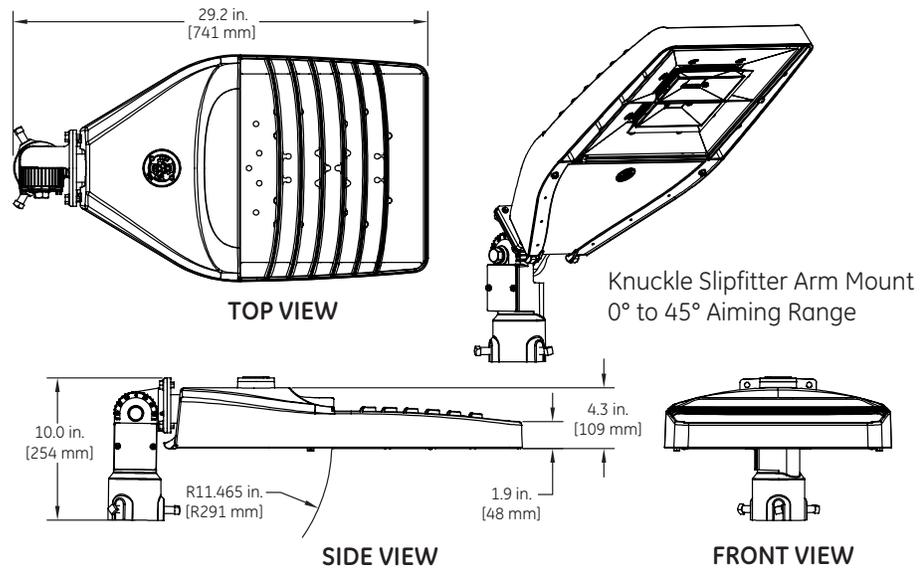
Product Dimensions

Evolve™ LED Area Light (EALS-03 & EALP-03)

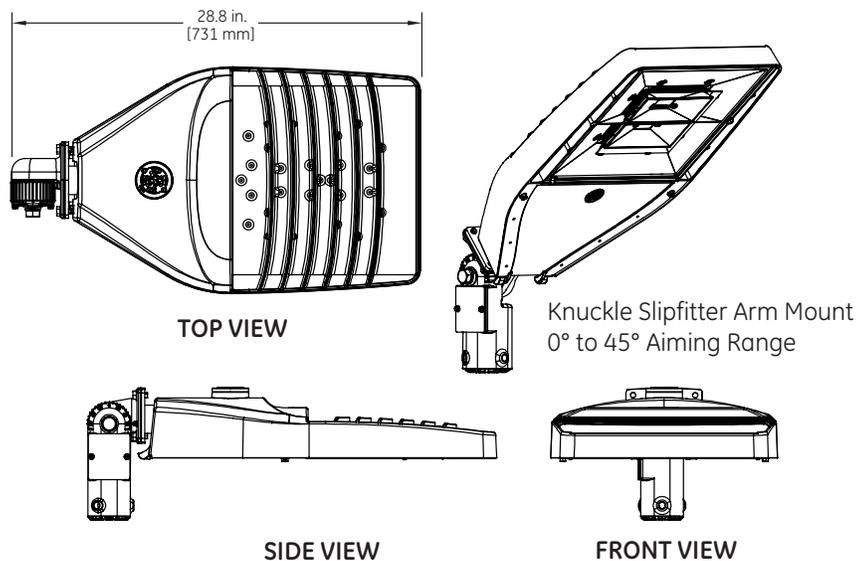
Integral Slipfitter: C1



Knuckle Slipfitter: S1



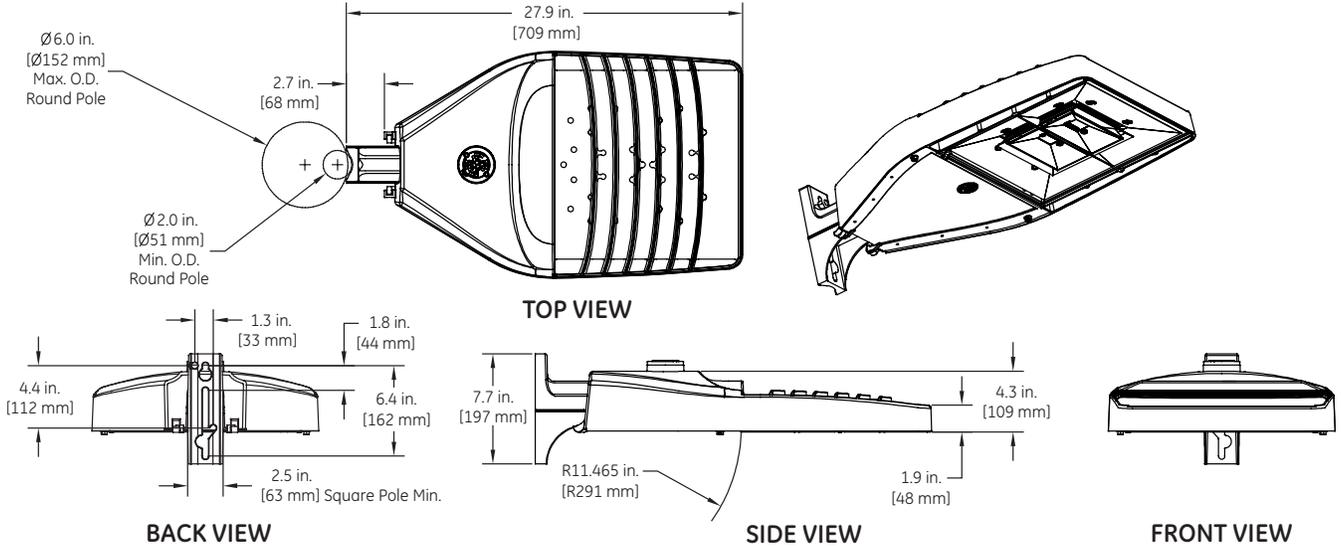
Knuckle Slipfitter: K1



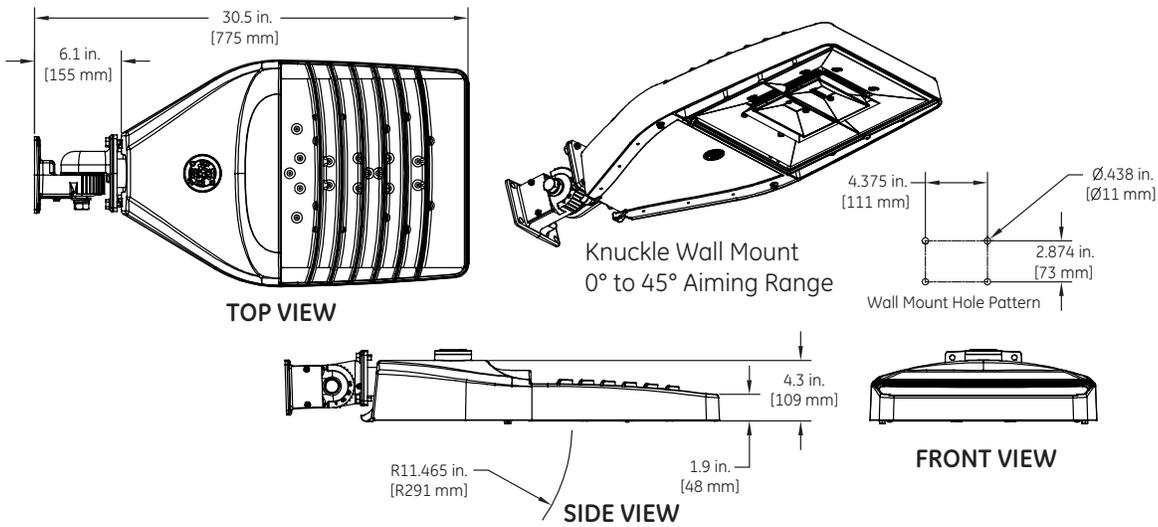
Product Dimensions

Evolve™ LED Area Light (EALS-03 & EALP-03)

Universal Mounting Arm: D1



Knuckle Wall Mount: V1



DATA

- Approximate Net Weight: 27 lbs (12.2 kg)
- Effective Projected Area:
 - Knuckle Slipfitter S1, K1 45° aim, EPA = 2.45
 - Knuckle Slipfitter S1, K1 downward aim, EPA = 0.73
 - Universal Arm Mount D1, EPA = 0.54 - Knuckle Wall Mount V1, 45° aim, EPA = 0.77 sq ft min and 1.43 sq ft max
 - Integral Slipfitter C1, EPA = 0.63

Accessories

Evolve™ LED Area Light (EALS-03 & EALP-03)

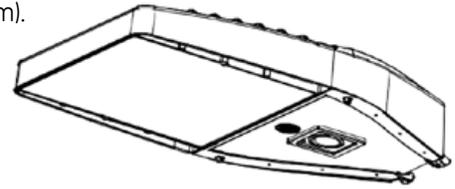
PE Accessories (to be ordered separately)

| SAP Number | Part Number | Description |
|------------|---------------|-----------------------------------|
| 93029237 | PED-MV-LED-7 | ANSI C136.41 Dimming PE, 120-277V |
| 93029238 | PED-347-LED-7 | ANSI C136.41 Dimming PE, 347V |
| 93029239 | PED-480-LED-7 | ANSI C136.41 Dimming PE, 480V |

| SAP Number | Part Number | Description |
|------------|-------------|-------------------|
| 28299 | PEC0TL | STANDARD 120-277V |
| 28294 | PEC5TL | STANDARD 480V |
| 80436 | PECDTL | STANDARD 347V |
| 73251 | SCCL-PECTL | Shorting cap |

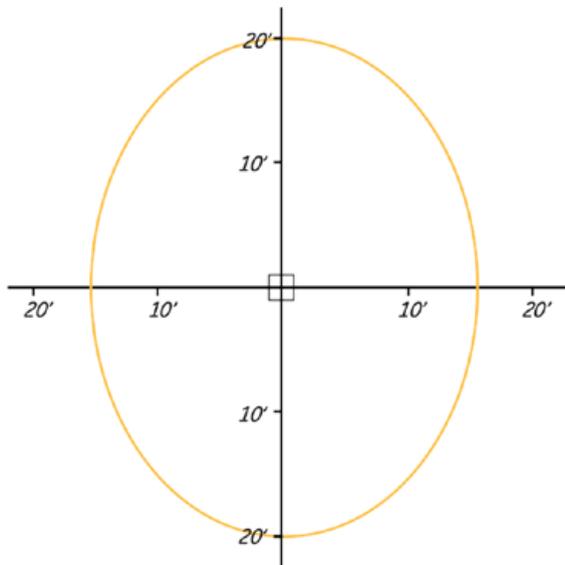
H-Motion Sensing Option

- Intended for applications, between 15-30 ft. mounting height. (4.57-9.14m). For mounting heights exceeding 30 ft., pole mounted sensors are recommended.
- Provides a coverage area radius for walking motion of 15-20 ft. (4.57-6.10m).
- Provides 270° of coverage (~90° is blocked by the pole).
- Standard factory settings:
 - 50% output when unoccupied, 100% output occupied.
 - Integral PE Sensor.
 - 5 minute post-occupancy time delay, 5 minute dimming ramp-down.
- Fixture power increase of 1W expected with sensor use.



Note: Standard options may be reprogrammed in the field. Reprogramming instructions included in product shipment.

Sensor Pattern



**Sensing Pattern Area Fixture
Up to 30 ft. Mounting Height**

Mounting Information

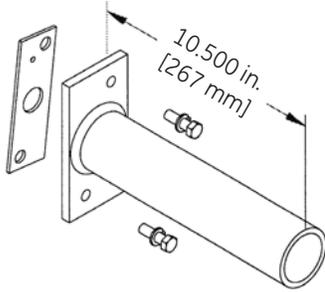
Evolve™ LED Area Light (EALS-03 & EALP-03)

Mounting Options for Integral Slipfitter - (Mounting Arm C1)

Order separately

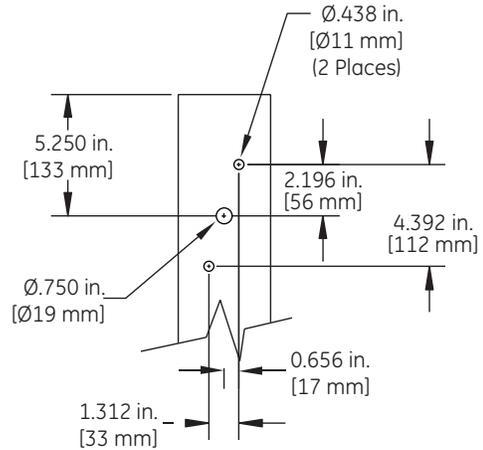
SQUARE POLE MOUNTING ARM

3.5 TO 4.5-inch (89 to 114mm) SQUARE
(WILL ALLOW 4 FIXTURES PER POLE @ 90 DEGREES.)



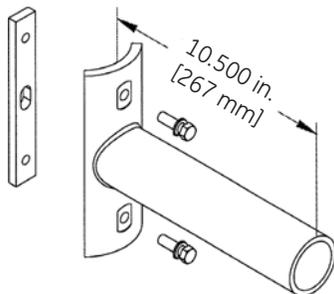
ORDER SEPARATELY FROM FIXTURE AS CATALOG NUMBER
SPA-EAMT10BLCK "Black"
SPA-EAMT10DKBZ "Dark Bronze"
SPA-EAMT10WHTE "White"
SPA-EAMT10GRAY "Gray"

SQUARE POLE MOUNTING DRILLING TEMPLATE



ROUND POLE MOUNTING ARM DRILLING TEMPLATE

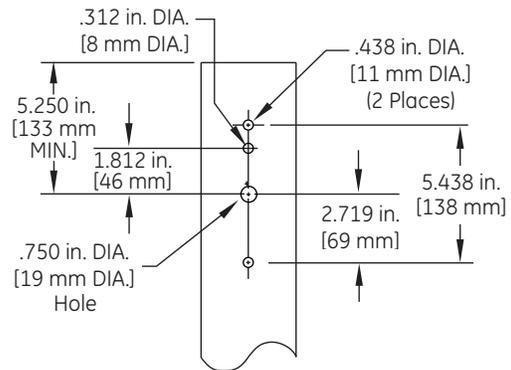
3.5 TO 4.5-inch (89 to 114mm) OD
(WILL ALLOW 4 FIXTURES PER POLE @ 90 DEGREES.)



ORDER SEPARATELY FROM FIXTURE AS CATALOG NUMBER
RPA-EAMT10BLCK "Black"
RPA-EAMT10DKBZ "Dark Bronze"
RPA-EAMT10WHTE "White"
RPA-EAMT10GRAY "Gray"

ROUND POLE MOUNTING DRILLING TEMPLATE

3.5 TO 4.5-inch (89 to 114mm) OD
round pole mounting arm



Wall Mounting Bracket Adapter Plate

ORDER SEPARATELY FROM FIXTURE AS CATALOG NUMBER
WMB-EAMT06

***NOTE:** For Wall Mounting, order luminaire with mounting arm: C1 = Slipfitter 2" Pipe (2.378 in. OD) supplied with leads.

Other mounting patterns are available for retrofit installations.
 Contact manufacturing for other available mounting patterns.



All trademarks are the property of their respective owners. Information provided is subject to change without notice. All values are design or typical values when measured under laboratory conditions. Current, powered by GE is a business of the General Electric Company.
 © 2019 GE.



Product Bulletin

SWW-LXFP-LED Washington Luminaire

The SWW-LXFP-LED Washington luminaire evokes the traditional decorative post-top theme of many North American landmark parks and cities while delivering the benefits associated with solid state lighting technology. Most notably, users will realize a reduction in energy consumption, maintenance, down time, and various costs associated with today's sustainable initiatives.

The prismatic optics of the SWW-LXFP-LED work in tandem with the LED module to provide comfortable, pleasing, diffuse light. Several light distribution choices, system wattages and color temperatures satisfy a multitude of application needs.



Features

- Choices of lumen output, color temperature, and light distributions to suit multiple applications.
- Driver and light engine are backed by 5-year system warranty.
- Built-In Category C3 surge protection to help ensure long-term reliability.
- High gloss Super Durable polyester powder coat paint enhances the aesthetic appearance and provides a long-lasting, protective finish.
- Lightweight, impact-resistant globe for ease of installation, reduced shipping costs, and repelling of would-be vandals.
- Corrosion resistant stainless steel mounting hardware.
- Made in USA.

| | |
|---|---|
| Ambient Temperature | -40° C minimum to 35° C maximum (Luminaire not to operate at maximum temperature for a period of time longer than 15% of total operating hours.) |
| CRI | 80 |
| Color Temperature | 2700K, 3000K, 3500K, 4000K |
| Rated Life (L70B50) @ 25° C Ambient Temperature | 50,000 Hours at 70% lumen maintenance |
| Surge Protection | Surge current rating of 20 kA using standard 8/20 μ Sec wave. Protected line-neutral, line-ground, and neutral-ground in accordance with ANSI/IEEE 62.41, Category C3. |
| Driver Specifications | <ul style="list-style-type: none">• 120-277V power supply• Compatible with 0-10V lighting control systems• Complies with the requirements of UL and CSA |
| Optics | Polycarbonate dimpled globe with internal optics. |
| Mounting | Mounts to a \varnothing 3" by 3" tall tenon. Three (3) 3/8"-16 UNC stainless steel allen head cup point set screws secure luminaire to post top tenon. |

Sentry
ELECTRIC

SWW-LXFP-LED

Sentry Electric LLC

185 Buffalo Avenue, Freeport, New York 11520
Telephone: 516.379.4660 Fax: 516.378.0624

www.sentrylighting.com

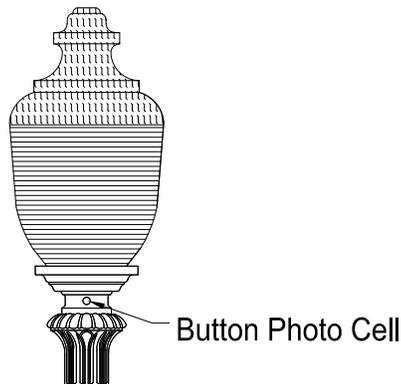
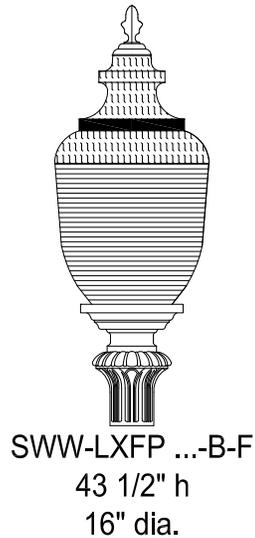
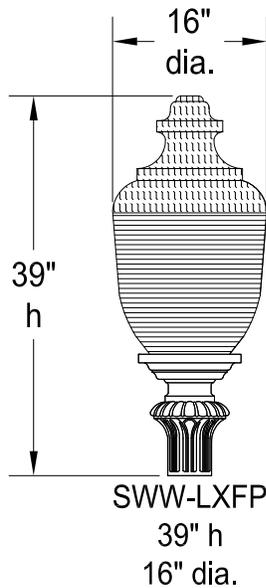
info@sentrylighting.com

Ordering Information

Choose the **boldface** catalog references that best suit your needs.

Example: **SWW-LXFP - LEDV29B-0.7A - 830 - ACR - KHT3-III - F - BPC - 120V - BK**

| Model | Light Source & Wattage | CRI & Color Temperature | Globe Material | Options | Finish |
|----------|--|--|--|--|---|
| SWW-LXFP | LEDV29B-1.05A 58 watts | 827 80 CRI, 2700K | (blank) Polycarbonate | BPC Button Photo Cell | BK Black (Standard) BZ Bronze FG Federal Green |
| | LEDV29B-0.7A 38 watts | 830 80 CRI, 3000K | ACR Acrylic | F Finial B Solid Band | |
| | LEDV18C-0.7A 26 watts | 835 80 CRI, 3500K 840 80 CRI, 4000K | | | |
| | Consult factory for additional light source and color temperature options. | | Distribution | Voltage | Consult factory for custom finish. |
| | | | KHT5-V Type V KHT3-III Type III | (blank) 120V thru 277V (Standard) 120V 120V (With BPC Only) 208-277V 208V thru 277V (With BPC Only) | |



FEATURES & SPECIFICATIONS

INTENDED USE — The BLWP LED Wrap/ Wall bracket expands the BLT family with the features and aesthetics of the popular BLT and BLTR center basket design with a clean, versatile style and volumetric distribution. High efficacy LED light engines deliver energy savings and low maintenance compared to traditional sources. An extensive selection of configurations and options make the BLWP the perfect choice for many lighting applications including schools, offices, stairwells and other commercial spaces. With multiple mounting options, easy installation, and controls configurations, the BLWP is an excellent choice for renovation and new construction.

CONSTRUCTION — BLWP enclosure components are die-formed for dimensional consistency. For 2' and 4' product, hinged door frame allows easy access to electrical components and mounting locations without having to remove additional parts. For 8' product, suspension aircraft cables allow easy access to electrical components and mounting locations without having to remove additional parts. Available in three paint finishes: white (pre-paint), painted after fabrication white, and natural aluminum. Diffusers are extruded from impact modified acrylic for increased durability. Optional polycarbonate lens available for additional impact resistance, as well as Tamper Proof screws.

OPTICS — Volumetric illumination is achieved by creating an optimal mix of light to walls, partitions and vertical and horizontal work surfaces – rendering the interior space, objects and occupants in a more balanced, complimentary luminous environment. High performance extruded acrylic diffusers conceal LEDs and efficiently deliver light in a volumetric distribution. Five diffuser choices available – curved and square designs with ribbed, a smooth frosted finish, and a smooth polycarbonate finish.

ELECTRICAL — Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. 80% LED lumen maintenance at 60,000 hours (L80/60,000). Replaces 2 lamp fluorescent.

Configurable BLWP: Available in High Efficiency (HE) versions for applications where a lower wattage (over the standard product) is required. The High Efficiency versions deliver >130 LPW and can be specified via the Lumen Package designations in the Ordering Information on page 2.

eldoLED driver options deliver choice of dimming range, and choices for control, while assuring flicker-free, low-current inrush, 89% efficiency and low EMI.

Optional integrated nLight® controls make each luminaire addressable - allowing it to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors and photocontrols. Connection to nLight is simple. It can be accomplished with integrated nLight AIR wireless or through standard Cat-5 cabling. nLight offers unique plug-and-play convenience as devices and luminaires automatically discover each other and self-commission, while nLight AIR is commissioned easily through an intuitive mobile app.

Lumen Management: Unique lumen management system (option N80) provides on board intelligence that actively manages the LED light source so that constant lumen output is maintained over the system life, preventing the energy waste created by the traditional practice of over-lighting.

Driver disconnect provided where required to comply with US and Canadian codes.

CONTROLS — **Integrated sensor (individual control):** Sensor Switch MSD7ADXCX (Passive infrared (PIR)) or MSDPDT7ADXCX (PIR/Microphonics Dual Tech (PDT)) integrated occupancy sensor/automatic dimming photocell allows the luminaire to power off when the space is unoccupied or enough ambient light is entering the space.

Integrated Sensor (nLight Wired Networking): This sensor is nLight-enabled, meaning it has the ability to communicate over an nLight network. When wired, using CAT-5 cabling, with other nLight-enabled sensors, power packs, or WallPods, an nLight control zone is created. Once linked to a Gateway, directly or via a Bridge, the zone becomes capable of remote status monitoring and control via SensorView software. See page 5 for the nLight sensor options.

Integrated Smart Sensor (nLight AIR Wireless Platform): The rES7 sensor is nLight AIR enabled, meaning it has the ability to communicate over the wireless nLight control platform. It is available with an automatic dimming photocell, and either a digital PIR or dual technology occupancy sensor. It pairs to other luminaires and wall switches through our mobile app, CLAIRITY PRO, which allows for simple sensor adjustment. See page 5 for more details on the Integrated Smart Sensor.

INSTALLATION — Intended for surface or suspend mounting. For row mounting and quick mounting to junction boxes see accessories section. Suitable for damp location.

LISTINGS — CSA Certified to meet U.S. and Canadian standards.

DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

WARRANTY — 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

| |
|----------------|
| Catalog Number |
| Notes |
| Type |

Low Profile LED Wraparound

BLWP

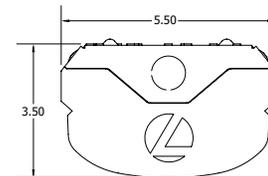
2', 4' and 8' Lengths



Specifications

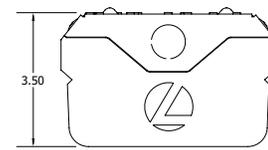
2' Dimensions

Length: 24 (60.96)
Width: 5.50 (13.97)
Depth: 3.50 (8.89)



4' Dimensions

Length: 48 (121.92)
Width: 5.50 (13.97)
Depth: 3.50 (8.89)



8' Dimensions

Length: 96 (243.84)
Width: 5.50 (13.97)
Depth: 3.50 (8.89)

All dimensions are inches (centimeters) unless otherwise specified.

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® or control networks marked by a shaded background*
- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background*

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

BLWP Low Profile LED Wraparound



A+ Capable options indicated by this color background.

ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: BLWP4 40L ADP GZ10 LP840

| Series | Lumens ¹ | Lens/Diffuser | Driver | Driver | Color Temperature | |
|-------------------------|--------------------------------|---|---|-----------------------|--|--------------------|
| BLWP2 2' LED Wraparound | Standard Efficiency (>100 LPW) | High Efficiency (>130 LPW) ¹ | ADP Curved, ribbed | (blank) MVOLT | EZ1 eLdoLED dims to 1% (0-10v dimming) GZ1 Generic dims to 1% (0-10v dimming) ⁴ GZ10 Generic dims to 10% (0-10v dimming) ^{4,25} SLD Step-level dimming ^{4,25} TD Triac Dimming ⁵ | |
| | 8L 800 Lumens | 8LHE 800 Lumens | ADSM Curved, smooth | 120 120V | | LP830 82CRI, 3000K |
| | 20L 2000 Lumens | 20LHE 2000 Lumens | SDP Square, ribbed | 277 277V | | LP835 82CRI, 3500K |
| | 33L 3300 Lumens | 33LHE 3300 Lumens | SDSM Square, smooth | 347 347V ³ | | LP840 82CRI, 4000K |
| | 40L 4000 Lumens | 40LHE 4000 Lumens | PDSM Curved, smooth polycarbonate ² | | | LP850 82CRI, 5000K |
| | 48L 4800 Lumens | 48LHE 4800 Lumens | Diffusers w/ trim rings | | | LP930 90CRI, 3000K |
| BLWP4 4' LED Wraparound | 15L 1500 Lumens | 15LHE 1500 Lumens | ADPT Curved, ribbed | | LP935 90CRI, 3500K | |
| | 20L 2000 Lumens | 20LHE 2000 Lumens | ADSMT Curved, smooth | | LP940 90CRI, 4000K | |
| | 30L 3000 Lumens | 30LHE 3000 Lumens | SDPT Square, ribbed | | LP950 90CRI, 5000K | |
| | 40L 4000 Lumens | 40LHE 4000 Lumens | SDSMT Square, smooth | | | |
| | 48L 4800 Lumens | 48LHE 4800 Lumens | PDSMT Curved, smooth polycarbonate ² | | | |
| | 60L 6000 Lumens | 60LHE 6000 Lumens | | | | |
| | 72L 7200 Lumens | 72LHE 7200 Lumens | | | | |
| | 85L 8500 Lumens | 85LHE 8500 Lumens | | | | |
| | 100L 10000 Lumens | 100LHE 10000 Lumens | | | | |
| | BLWP8 8' LED Wraparound | 40L 4000 Lumens | 40LHE 4000 Lumens | | | |
| 60L 6000 Lumens | | 60LHE 6000 Lumens | | | | |
| 80L 8000 Lumens | | 80LHE 8000 Lumens | | | | |
| 100L 10000 Lumens | | 100LHE 10000 Lumens | | | | |
| 140L 14000 Lumens | | 140LHE 14000 Lumens | | | | |
| 180L 18000 Lumens | | 180LHE 18000 Lumens | | | | |
| 200L 20000 Lumens | | 200LHE 20000 Lumens | | | | |

| nLight Interface ⁶ | Control ⁶ | Individual Control |
|---|---|---|
| nLight Wired (blank) no nLight [®] interface N80 nLight with 80% lumen management N80EMG nLight with 80% lumen management ⁷ For use with generator supply EM power N100 nLight without lumen management N100EMG nLight without lumen management ⁷ For use with generator supply EM power nLight Wireless (blank) no nLight [®] interface NLTAIR2 nLight AIR Generation 2 enabled ⁸ | nLight Wired (blank) no nLight control NES7 nLight™ nES 7 PIR integral occupancy sensor ^{9,10} NESPDT7 nLight™ nES PDT 7 dual technology integral occupancy control ^{9,10} NES7ADCX nLight™ nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell ^{9,10} NESPDT7ADCX nLight™ nES PDT 7 dual technology integral occupancy sensor with automatic dimming photocell ^{9,10} nLight Wireless (blank) no nLight control RES7 nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control ^{9,13} RES7PDT nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Zone Control ^{9,13} RIO nLight AIR radio module without sensor ^{9,13} RES7EM nLight AIR PIR integral occupancy sensor with automatic dimming photocell and UL924 Emergency Operation, via power interrupt detection ^{9,13} RES7PDTEM nLight AIR microphonics dual technology occupancy sensor with automatic dimming photocell & UL924 Emergency Operation, via power interrupt detection ^{9,13} RIOEM nLight AIR radio module less sensor, with UL924 Emergency Operation, via power interrupt detection ^{9,13} | MS7ADCX PIR integral occupancy sensor with automatic dimming control photocell ^{9,11,12} MS7PDT7ADCX PDT integral occupancy sensor with with automatic dimming control photocell ^{9,11,12} |

| Standby mode ⁶ | Options | Finish |
|--|--|--|
| (blank) Fixture turns off when unoccupied | E10WLCP EM Self-Diagnostic battery pack, 10W Constant Power, Certified in CA Title 20 MAEDBS | (blank) Standard pre-paint white |
| DIM10 Fixture dims to approximately 10% light output when unoccupied ¹⁴ | EL7L 700 nominal lumens battery pack ¹⁶ | PAF Paint After Fabrication White |
| DIM50 Fixture dims to approximately 50% light output when unoccupied ¹⁴ | EL14L 1400 nominal lumens battery pack ¹⁶ | DNA Paint After Fabrication Natural Aluminum |
| NOC Occupancy sensor disabled ¹⁵ | BGTD Bodine Generator Transfer Device ¹⁷ | |
| | USPOM US Point of Manufacture | |
| | QMB Quick Mount Bracket ¹⁸ | |
| | TRS Tamper Resistant Screw ¹⁹ | |
| | GLR Fast-blowing fuse ²⁰ | |
| | GMF Slow-blowing fuse ²⁰ | |
| | FAO Field Adjustable Output ^{21,25} | |
| | PLR Plug-in wiring, see page 8 for ordering information ²² | |
| | PLR1LVG Plug-in wiring, low voltage dimming ^{22,23} | |

See Stock configurations, Accessories and footnotes on next page.

BLWP Low Profile LED Wraparound

Non-Configurable BLWP:

| Stock/MTO | CI code | Catalog Description | UPC | Lumens | Wattage | LPW | Color Temperature | Voltage | Pallet QTY |
|-----------|---------|----------------------|--------------|--------|---------|-----|-------------------|---------|------------|
| MTO | *264V2M | BLWP2 20L SDSM LP835 | 191848282045 | 2000 | 16 | 125 | 3500 K | 120-277 | 80 |
| | *264V2L | BLWP2 20L SDSM LP840 | 191848282038 | 2000 | 16 | 125 | 4000 K | 120-277 | 80 |
| | *264CH0 | BLWP2 33L ADP LP835 | 191848080825 | 3300 | 30 | 110 | 3500 K | 120-277 | 80 |
| | *264CH1 | BLWP2 33L ADP LP840 | 191848080832 | 3300 | 30 | 110 | 4000 K | 120-277 | 80 |
| | *264CH2 | BLWP2 40L ADP LP835 | 191848080849 | 4000 | 37 | 108 | 3500 K | 120-277 | 80 |
| | *264CH4 | BLWP2 40L ADP LP840 | 191848080856 | 4000 | 37 | 108 | 4000 K | 120-277 | 80 |
| STOCK | *264V2K | BLWP4 30L ADP LP835 | 191848282021 | 3000 | 25 | 120 | 3500 K | 120-277 | 70 |
| | *264V2H | BLWP4 30L ADP LP840 | 191848281994 | 3000 | 25 | 120 | 4000 K | 120-277 | 70 |
| | *264CH5 | BLWP4 40L ADP LP835 | 191848080863 | 4000 | 35 | 114 | 3500 K | 120-277 | 70 |
| | *264CH6 | BLWP4 40L ADP LP840 | 191848080870 | 4000 | 35 | 114 | 4000 K | 120-277 | 70 |
| | *264CH7 | BLWP4 48L ADP LP835 | 191848080900 | 4800 | 39 | 123 | 3500 K | 120-277 | 70 |
| | *264CH8 | BLWP4 48L ADP LP840 | 191848080917 | 4800 | 39 | 123 | 4000 K | 120-277 | 70 |

| Accessories: Order as separate catalog number. | | | | |
|--|---------|-----|----------------------------------|---|
| PART number | CI CODE | QTY | Description | Application |
| BLWPCR | *250A0S | 1 | CONTINUOUS ROW MOUNT BRACKET WHT | FOR USE ON BLWP4 ONLY, FOR STD FINISH AND PAF ²⁶ |
| BLWPCRDNA | *250A1S | 1 | CONTINUOUS ROW MOUNT BRACKET DNA | FOR USE ON BLWP4 ONLY, FOR DNA FINISH ²⁶ |
| BLWP8CR | *2543C6 | 1 | CONTINUOUS ROW MOUNT BRACKET WHT | FOR USE ON BLWP8 ONLY, FOR STD FINISH AND PAF ²⁶ |
| BLWP8CRDNA | *2543CA | 1 | CONTINUOUS ROW MOUNT BRACKET DNA | FOR USE ON BLWP8 ONLY, FOR DNA FINISH ²⁶ |
| BLWPCG36 F1 | *264R3P | 1 | BLWPCG36 F1 | ADJUSTABLE AIRCRAFT CABLE GRIPPER KIT, 36 INCH F1 CEILING TYPE |
| BLWPCG36 F2 | *264R4G | 1 | BLWPCG36 F2 | CABLE GRIPPER KIT, 36 INCH F2 CEILING TYPE |
| BLWPCG72 F1 | *264R4H | 1 | BLWPCG72 F1 | CABLE GRIPPER KIT, 72 INCH F1 CEILING TYPE |
| BLWPCG72 F2 | *264R4M | 1 | BLWPCG72 F2 | CABLE GRIPPER KIT, 72 INCH F2 CEILING TYPE |
| BLWPCGF36 F1 | *264R4R | 1 | BLWPCGF36 F1 | KIT WITH POWER FEED 36 INCH F1 CEILING TYPE |
| BLWPCGF36 F2 | *264R4U | 1 | BLWPCGF36 F2 | KIT WITH POWER FEED 36 INCH F2 CEILING TYPE |
| BLWPCGF72 F1 | *264R4V | 1 | BLWPCGF72 F1 | KIT WITH POWER FEED 72 INCH F1 CEILING TYPE |
| BLWPCGF72 F2 | *264R4X | 1 | BLWPCGF72 F2 | KIT WITH POWER FEED 72 INCH F2 CEILING TYPE |
| BLWPCGE36 F1 | *264R50 | 1 | BLWPCGE36 F1 | KIT WITH EMERGENCY POWER FEED 36 INCH F1 CEILING TYPE |
| BLWPCGE36 F2 | *264R5T | 1 | BLWPCGE36 F2 | KIT WITH EMERGENCY POWER FEED 36 INCH F2 CEILING TYPE |
| BLWPCGE72 F1 | *264R5V | 1 | BLWPCGE72 F1 | KIT WITH EMERGENCY POWER FEED 72 INCH F1 CEILING TYPE |
| BLWPCGE72 F2 | *264R53 | 1 | BLWPCGE72 F2 | KIT WITH EMERGENCY POWER FEED 72 INCH F2 CEILING TYPE |
| BLWP TRS T15 BIT | *2516KU | 1 | BLWP TRS T15 BIT | T15 WITH PIN, TORX BIT FOR TRS OPTION |
| BLWPQMB | *250A2S | 1 | BLWP Quick Mount Bracket | QUICK MOUNT BRACKET FOR INSTALLATION TO JUNCTION BOXES WITHOUT HAVING TO REMOVE ANY PARTS IN THE FIXTURE, 4FT FIXTURE ONLY. |

Notes

- 1 Approximate lumen output. All versions may not achieve 130+ LPW including 90CRI and versions with integral sensor trim. Refer to photometry on www.acuitybrands.com. See QPL for latest DLC listings.
- 2 Not available with HE (high efficiency) performance package on BLWP2 and BLWP4 only. If ordered on BLWP2 with TD, must select 33L or 40L. If ordered on BLWP4 with TD, must select 30L, 40L, 48L, 85L, or 100L.
- 3 Not available with TD, E10W/LCP, EL7L, EL14L, BGTD or BLWP4 > 85L/ 85LHE.
- 4 Not available with nLight Interface or Controls.
- 5 On BLWP2, not available with 8L, 20L, 48L, 8LHE, or 20LHE. On BLWP4, not available with 15L, 20L, 60L, 72L, 15LHE, 20LHE, 60LHE, or 72LHE.
- 6 Not available with TD.
- 7 Requires a connection to existing nLight network. Power is provided from a separate nLIGHT enabled fixture or external power pack.
- 8 Must select nLight wireless control
- 9 Must select Lens/Diffuser type with Trim Rings.
- 10 Requires EZ1 and nLight interface wired option to be specified.
- 11 Not available with nLight interface.
- 12 0-10V wires are not accessible via access plate.
- 13 Requires EZ1 and NLTAIR2 to be specified. Only available with 60L or lower lumen packages on the BLWP4. Only available with 100LHE/80L lumen packages or lower on the BLWP8.
- 14 Requires occupancy control. Must be ordered with nLight Wired or Individual Control sensor option. Not available with NLTAIR2 sensor option.
- 15 Can only be ordered in conjunction with EZ1, NLTAIR2, RES7/RES7PDT. Occupancy sensor disabled at factory but can be re-enabled upon commissioning.
- 16 Only available on BLWP8, 8ft length version of this fixture, in lumen packages 140L or less. Not available with TD.
- 17 Not available with TD or emergency battery options. Must specify voltage. Requires BSE labeling, voltage specific. Consult factory for options. Example: BGTD BSE10.
- 18 Only available with BLWP4 (4') fixture.
- 19 Accessory BLWP TRS T15 BIT available to be ordered with this option. See Accessories section page 3. Order as separate item.
- 20 Must specify voltage. 120 or 277, with GLR and GMF fusing.
- 21 Must specify EZ1 driver. Not available with lumen packages > 6000LM. FAO restricts use of external dimming controls. See chart on page 3 for additional details.
- 22 Not available with BLWP2 or TD.
- 23 Not available with Controls options or nLight interface.
- 24 For ADP lens only, for additional lens options refer to photometry on www.acuitybrands.com.
- 25 Cannot be used with PLRLVIG.
- 26 Cannot be used to continuous row mount 4' fixtures with 8' fixtures.

BLWP Low Profile LED Wraparound

| nLight® Wired Control Accessories: <i>Order as separate catalog number. Visit www.acuitybrands.com/products/controls/nlight.</i> | | | |
|---|---------------------|--|----------------------------|
| WallPod stations | Model number | Occupancy sensors | Model number |
| On/Off | nPODM [color] | Small motion 360°, ceiling (PIR / dual tech) | nCM 9 RJB / nCM PDT 9 RJB |
| On/Off & raise/lower | nPODM DX [color] | Large motion 360°, ceiling (PIR / dual tech) | nCM10 RJB / nCM PDT 10 RJB |
| Graphic touchscreen | nPOD GFX [color] | Wall switch with raise/lower | nWSX PDT LV DX [color] |
| Photocell controls | Model number | Cat-5 cable (plenum rated) | Model number |
| Full range dimming | nCM ADCX RJB | 10' cable | CAT5 10FT J1 |
| | | 30' cable | CAT5 30FT J1 |

| nLight® AIR Control Accessories: <i>Order as separate catalog number. Visit www.acuitybrands.com/products/controls/nlightair.</i> | |
|---|------------------------|
| Wall switches | Model number |
| On/Off single pole | rPODB [color] G2 |
| On/Off two pole | rPODB 2P [color] G2 |
| On/Off & raise/lower single pole | rPODB DX [color] G2 |
| On/Off & raise/lower two pole | rPODB 2P DX [color] G2 |
| On/Off & raise/lower single pole | rPODBZ DX WH G2 |

| Replacement Parts: Order as separate catalog number. | | | | | |
|---|---------------|------------------------------------|---------------|------------------------------------|---------------|
| 2' Version Replacement Lens | | 4' Version Replacement Lens | | 8' Version Replacement Lens | |
| *264F5E | DBLWP24 ADP | *264F69 | DBLWP48 ADP | *2543CE | DBLWP96 ADP |
| *264F5F | DBLWP24 SDP | *264F6E | DBLWP48 SDP | *2543CG | DBLWP96 SDP |
| *264F5H | DBLWP24 ADSM | *264F6F | DBLWP48 ADSM | *2543CJ | DBLWP96 ADSM |
| *264F5J | DBLWP24 SDSM | *264F6G | DBLWP48 SDSM | *2543CM | DBLWP96 SDSM |
| *264F5L | DBLWP24 ADPT | *264F6H | DBLWP48 ADPT | *2543CN | DBLWP96 ADPT |
| *264F5P | DBLWP24 SDPT | *264F6K | DBLWP48 SDPT | *2543CP | DBLWP96 SDPT |
| *264F5U | DBLWP24 ADSMT | *264F6L | DBLWP48 ADSMT | *2543CR | DBLWP96 ADSMT |
| *264F5W | DBLWP24 SDSMT | *264F6N | DBLWP48 SDSMT | *2543CS | DBLWP96 SDSMT |
| *264F66 | DBLWP24 PDSM | *264F6W | DBLWP48 PDSM | *2543CW | DBLWP96 PDSM |
| *264F67 | DBLWP24 PDSMT | *264F6X | DBLWP48 PDSMT | *2543CX | DBLWP96 PDSMT |

FAO SETTINGS (Field Adjustable Output)

| | 0-10 Voltage Dimmer | % Lumen Output (approximate) | % Wattage (approximate) |
|--------|----------------------------|-------------------------------------|--------------------------------|
| Step 8 | Full Output | 100% | 100% |
| Step 7 | 9.0 VDC | 98% | 100% |
| Step 6 | 8.0 VDC | 88% | 86% |
| Step 5 | 7.0 VDC | 86% | 82% |
| Step 4 | 6.0 VDC | 82% | 80% |
| Step 3 | 5.0 VDC | 76% | 75% |
| Step 2 | 4.0 VDC | 71% | 72% |
| Step 1 | 3.0 VDC | 67% | 71% |



Simple adjustment of output through the use of a flat head screwdriver.

BLWP Low Profile LED Wraparound

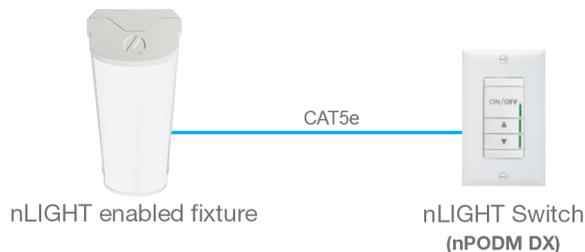
| Sensor Options | | | | | |
|----------------|-----------------------------|-------------------|-----|-------------------------|-----------------------|
| Option | Automatic Dimming Photocell | Occupancy Sensing | | nLight Wired Networking | nLight AIR Networking |
| | | PIR | PDT | | |
| MSD7ADCX | X | X | | | |
| MSDPDT7ADCX | X | | X | | |
| NES7 | | X | | X | |
| NES7ADCX | X | X | | X | |
| NESPD7 | | | X | X | |
| NESPD7ADCX | X | | X | X | |
| RES7 | X | X | | | X |
| RES7PDT | X | X | X | | X |

Integrated Sensor with Individual Control

The MSD7ADCX PIR occupancy sensor/automatic dimming photocell is ideal for areas without obstructions and where daylight harvesting may be desired. Suggested applications include, but not limited to, hallways, corridors, storage rooms, and breakrooms or other areas where people are typically moving.

The MSDPDT7ADCX PIR/Microphonics Dual Tech occupancy sensor/automatic dimming photocell is ideal for areas with obstructions and where daylight harvesting is desired. Suggested applications include, but not limited to, open offices, private offices, classrooms, public restrooms, and conference rooms.

Basic nLight Zone

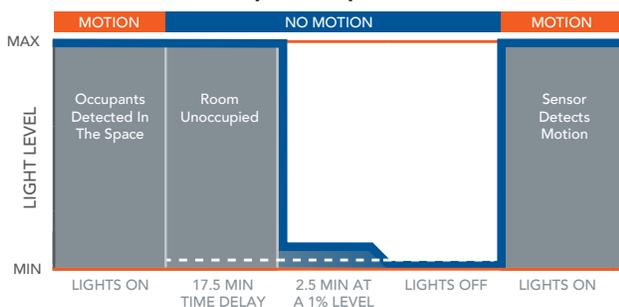


nLight Wired Networking

The nES 7 is ideal for small rooms without obstructions or areas with primarily walking motion. Ideal areas include hallways, corridors, storage rooms, and breakrooms. Additionally, the NES7ADCX includes an integrated photocell, which enables daylight harvesting controls.

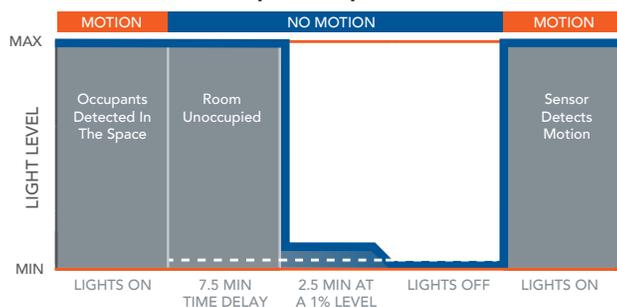
For areas like restrooms, private offices, open offices, conference rooms or any space with obstructions, the nES PDT 7 dual technology sensor is recommended. The nES PDT 7 utilizes both PIR (passive infrared) and Microphonics technologies to detect occupancy. Additionally, the NESPD7ADCX includes an integrated photocell, which enables daylight harvesting controls which is ideal for areas where windows are present.

Sequence of Operation



*The presetting on the automatic dimming photocell is 5fc.

Sequence of Operation

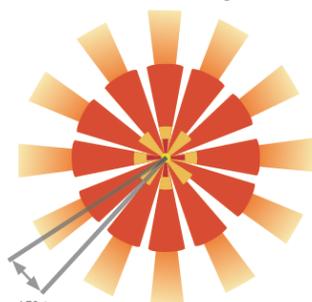


*The presetting on the automatic dimming photocell is 5fc.

Sensor Coverage Pattern Mini 360° Lens

- Recommended for walking motion detection from mounting heights between 8 ft (2.44 m) and 20 ft (6.10 m)
- Initial detection of walking motion along sensor axes at distances of 2x the mounting height up to 15 ft (4.57 m) and 1.75x up to 20 ft (6.10 m).
- Provides 12 ft (3.66 m) radial detection of small motion when mounted at 9 ft (2.74 m)
- Initial detection will occur earlier when walking across sensor's field of view than when walking directly at sensor

9 FT Mounting



| | |
|-----|-----|
| 5.5 | 18 |
| 4.6 | 15 |
| 3.7 | 12 |
| 2.7 | 9 |
| 1.8 | 6 |
| 0.9 | 3 |
| 0m | 0ft |
| 0.9 | 3 |
| 1.8 | 6 |
| 2.7 | 9 |
| 3.7 | 12 |
| 4.6 | 15 |
| 5.5 | 18 |

nLight AIR Wireless

nLight AIR is the ideal solution for retrofit or new construction spaces where adding additional wiring can be labor intensive and costly. nLight AIR is available with or without an integral sensor. The integrated rES 7 or rES7 PDT smart sensor is part of each luminaire in the nLight AIR network, which can be grouped to control multiple luminaires. The granularity of control with the digital PIR occupancy detection and daylight sensing makes a great solution for any application.



Simple as 1,2,3

1. Install the nLight® AIR fixtures with embedded smart sensor
2. Install the wireless battery-powered wall switch
3. With CLAIRITY PROapp, pair the fixtures with the wall switch and if desired, customize the sensor settings for the desired outcome

MOUNTING INFORMATION

For unit or row installation; surface or suspend mounting.

Suspension Methods:

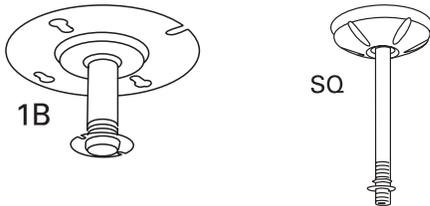
Aircraft Cable Suspension

Order one BLWPCG_, BLWPCGF_, or BLWPCGE_ required for each suspension point.
 F1 for use with most T-bar and screw slot grid ceiling applications. Designed for on-grid and off-grid installations.
 F2 for use with recessed or surface-mount horizontal J-box applications.
 See Accessories page on page 3 for part numbers configurations.



Stem Suspension

Individual installation — Two single-stem hangers required.

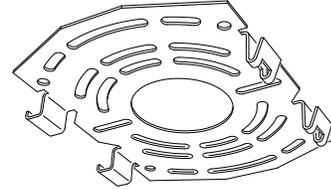


Note: 2' configurations with emergency option cannot be stem mounted.

Accessory Images

(QMB) Quick Mount Bracket

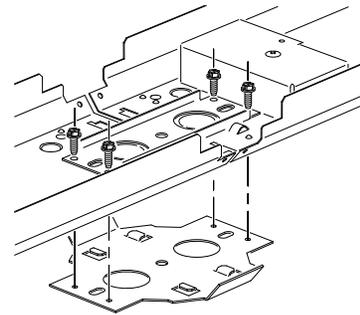
Quick Mount Bracket allows easy installation to junction boxes without having to remove any parts in the fixture.



Note: 2' and 8' configurations not available with QMB accessory.

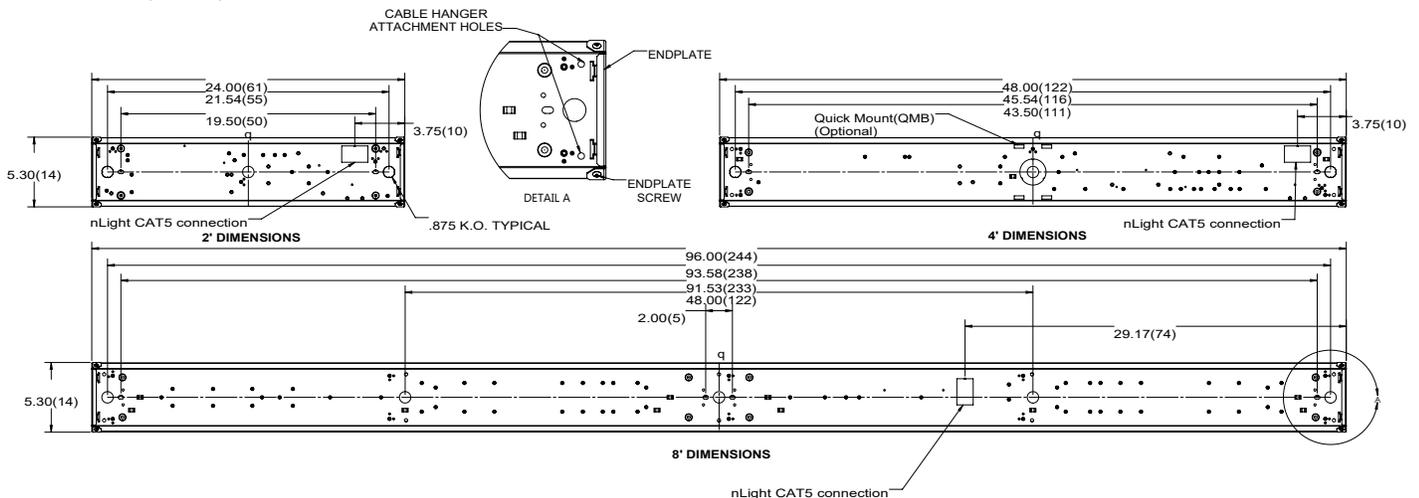
BLWPCR - continuous row mount bracket

Order one (1) BLWPCR bracket per fixture for continuous row applications. Order one hanger(Aircraft Cable Suspension Kit or Stem Suspension Kit) per fixture plus one per joiner required.



DIMENSIONS

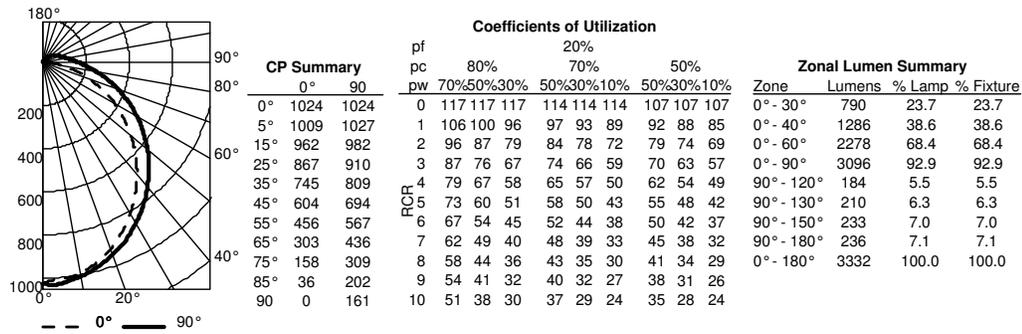
All dimensions are inches (centimeters) unless otherwise noted.



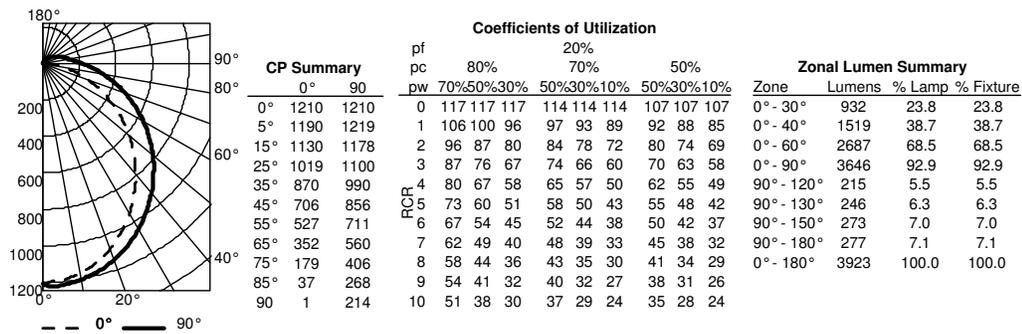
BLWP Low Profile LED Wraparound

PHOTOMETRICS

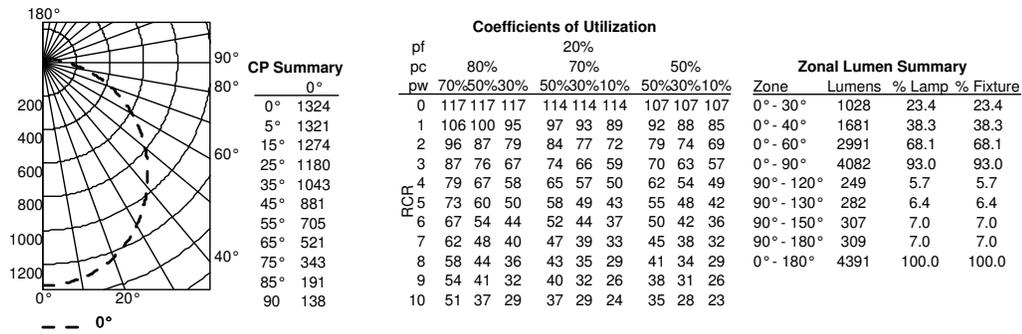
BLWP2 33L ADP LP835, 3332 delivered lumens, test no. ISF 37666, tested in accordance to IESNA LM-79.



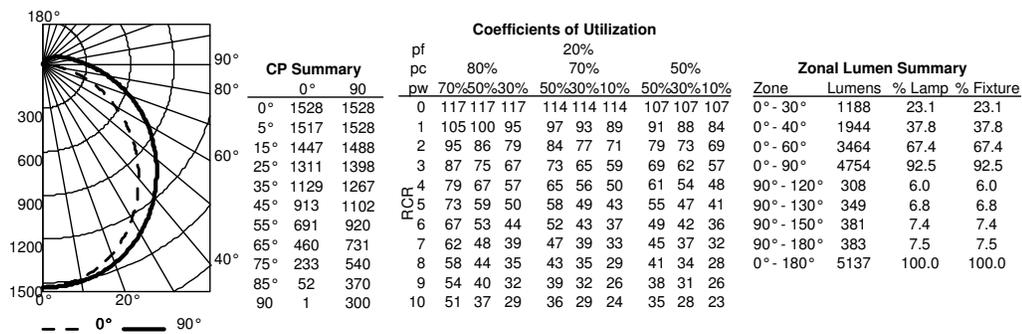
BLWP2 40L ADP LP835, 3923 delivered lumens, test no. ISF 37668, tested in accordance to IESNA LM-79.



BLWP4 40L ADP LP835, 4391 delivered lumens, test no. ISF 37596, tested in accordance to IESNA LM-79.



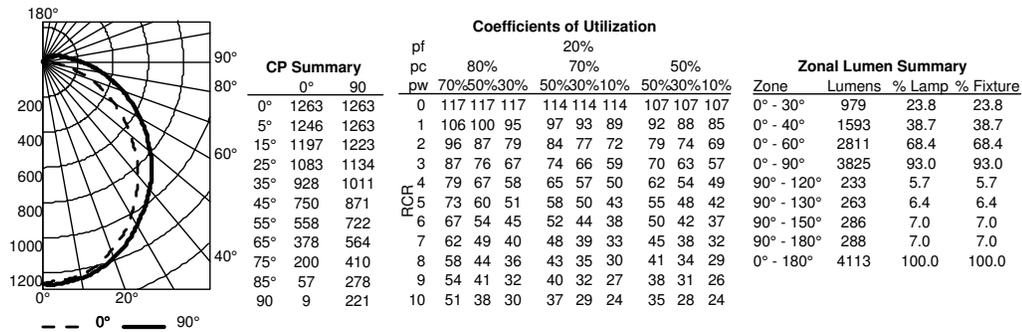
BLWP4 48L ADP LP835, 5137 delivered lumens, test no. ISF 37597, tested in accordance to IESNA LM-79.



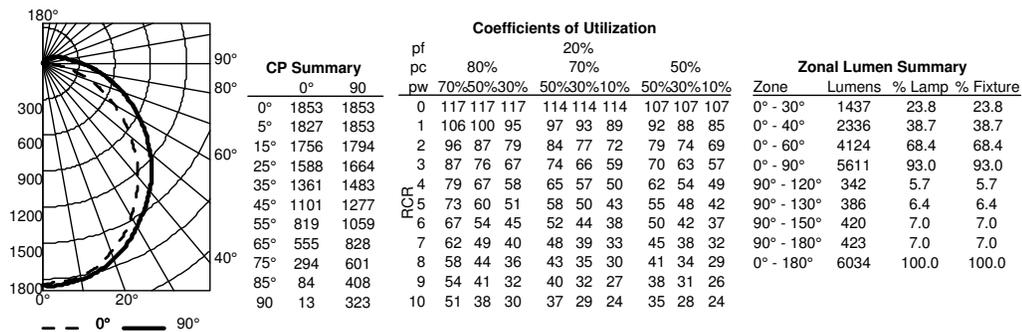
BLWP Low Profile LED Wraparound

PHOTOMETRICS

BLWP8 40L ADP LP835, 4113 delivered lumens, test no. ISF 37290P226.



BLWP8 60L ADP LP835, 6033 delivered lumens, test no. ISF 37290P386.



PRODUCT INFORMATION

Advanced plug-in system with three-circuit capability. Available on industrial and strip products and a variety of architectural products mounted in continuous rows. 1, 2, 3 and 4-lamp fixtures. PLR22 (2-circuit) and PLR33 (3-circuit) crossover harness switches hot circuit serving next fixture in row. Reduces fixture types on job for alternating circuit applications (see example below.)

Easy one-step installation, saves up to 35% on labor costs. Expanded switching flexibility helps save energy.

Rows can be 50% longer with two-circuit systems. Polarized, lock-together nylon connectors prevent miswiring in the field. #12 THHN conductor, rated 600V, 90°C. White neutral wire included. Grounding accomplished by fixture in-row connectors.

CSA certified systems available with up to 2 circuits. G ground required.

Note: Specifications subject to change without notice.



PLR

Advanced 3-Circuit Plug-In

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative.

| Series | Number of hot wires | Branch circuits | Dimming | Ground |
|--------|--|--|------------------------|------------------------------|
| PLR | (blank) Not required for 22 or 33 | <u>Circuits to which ballast is connected</u> | LV Low-voltage dimming | (blank) No ground in PLR |
| PLR22 | 1 Black | (blank) Not required for 22 or 33 | | G Ground. Maximum 2 circuits |
| PLR33 | 2 Black and red 3 Black, red and blue | A Black wire B Red wire C Blue wire | | |
| | | <u>Emergency circuit connected</u> (blank) No emergency circuit ELA Emergency circuit wired to black wire ELB Emergency circuit wired to red wire ELC Emergency circuit wired to blue wire | | |

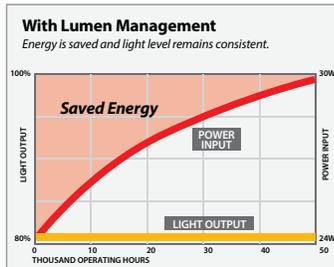
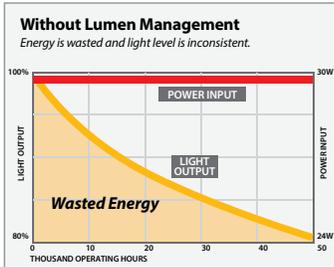
Typical Applications

- Multiple-circuit and single-circuit for longer continuous rows
- Multiple-circuit with alternating fixtures on separate circuits, 2-circuit (PLR 22) and 3-circuit (PLR 33)
- Multiple circuit with night-lights located along row as desired

| TYPICAL APPLICATIONS | | | | | | | | | | |
|----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| PLR 3 C | PLR 3 C | PLR 3 C | PLR 3 C | PLR 2 B | PLR 2 B | PLR 2 B | PLR 2 B | PLR 1 | PLR 1 | PLR 1 |
| (All PLR22) | | | | | | | | | | |
| Circuit A | Circuit B | Circuit A | Circuit B | Circuit A | Circuit B | Circuit A | Circuit B | Circuit A | Circuit B | Circuit A |
| (All PLR33) | | | | | | | | | | |
| Circuit A | Circuit B | Circuit C | Circuit A | Circuit B | Circuit C | Circuit A | Circuit B | Circuit C | Circuit A | Circuit B |
| PLR 3 A | PLR 3 A | PLR 3 A | PLR 3 C | PLR 3 B | PLR 3 B | PLR 3 B | PLR 3 C | PLR 3 A | PLR 3 A | PLR 3 A |

Constant Lumen Management

Enabled by the embedded nLight control, the BLT actively tracks its run-time and manages its light source such that constant lumen output is maintained over the system life. Referred to as lumen management, this feature eliminates the energy waste created by the traditional practice of over-lighting.



How to Estimate Lumens in Emergency Mode

Use the formula below to estimate the delivered lumens in emergency mode

$$\text{Estimated Lumens} = 1.25 \times P \times \text{LPW}$$

P = Output power of emergency driver. P = 10W for E10WLCP option.

LPW = Lumen per watt rating of the luminaire. LPW information available in Performance Data section.

BLWP PERFORMANCE DATA ²⁴

| Lumen Package | Lumens | Input Watts | LPW |
|----------------------|--------|-------------|-----|
| BLWP2 8L ADP LP830 | 825 | 7 | 113 |
| BLWP2 8L ADP LP835 | 855 | 7 | 117 |
| BLWP2 8L ADP LP840 | 868 | 7 | 119 |
| BLWP2 8L ADP LP850 | 893 | 7 | 123 |
| BLWP2 20L ADP LP830 | 1876 | 17 | 113 |
| BLWP2 20L ADP LP835 | 1942 | 17 | 117 |
| BLWP2 20L ADP LP840 | 1973 | 17 | 119 |
| BLWP2 20L ADP LP850 | 2029 | 17 | 123 |
| BLWP2 33L ADP LP830 | 3180 | 30 | 107 |
| BLWP2 33L ADP LP835 | 3332 | 30 | 112 |
| BLWP2 33L ADP LP840 | 3345 | 30 | 112 |
| BLWP2 33L ADP LP850 | 3440 | 30 | 115 |
| BLWP2 40L ADP LP830 | 3914 | 37 | 105 |
| BLWP2 40L ADP LP835 | 3923 | 37 | 105 |
| BLWP2 40L ADP LP840 | 4117 | 37 | 110 |
| BLWP2 40L ADP LP850 | 4234 | 37 | 113 |
| BLWP2 48L ADP LP830 | 4772 | 44 | 109 |
| BLWP2 48L ADP LP835 | 4940 | 44 | 112 |
| BLWP2 48L ADP LP840 | 5019 | 44 | 114 |
| BLWP2 48L ADP LP850 | 5162 | 44 | 118 |
| BLWP4 15L ADP LP830 | 1372 | 11 | 126 |
| BLWP4 15L ADP LP835 | 1420 | 11 | 131 |
| BLWP4 15L ADP LP840 | 1443 | 11 | 133 |
| BLWP4 15L ADP LP850 | 1484 | 11 | 137 |
| BLWP4 20L ADP LP830 | 1985 | 16 | 127 |
| BLWP4 20L ADP LP835 | 2055 | 16 | 131 |
| BLWP4 20L ADP LP840 | 2088 | 16 | 133 |
| BLWP4 20L ADP LP850 | 2147 | 16 | 137 |
| BLWP4 30L ADP LP830 | 2960 | 25 | 118 |
| BLWP4 30L ADP LP835 | 3065 | 25 | 123 |
| BLWP4 30L ADP LP840 | 3114 | 25 | 125 |
| BLWP4 30L ADP LP850 | 3203 | 25 | 128 |
| BLWP4 40L ADP LP830 | 4027 | 35 | 117 |
| BLWP4 40L ADP LP835 | 4391 | 35 | 127 |
| BLWP4 40L ADP LP840 | 4236 | 35 | 123 |
| BLWP4 40L ADP LP850 | 4357 | 35 | 126 |
| BLWP4 48L ADP LP830 | 4948 | 40 | 124 |
| BLWP4 48L ADP LP835 | 5137 | 40 | 129 |
| BLWP4 48L ADP LP840 | 5205 | 40 | 131 |
| BLWP4 48L ADP LP850 | 5353 | 40 | 134 |
| BLWP4 60L ADP LP830 | 6059 | 49 | 123 |
| BLWP4 60L ADP LP835 | 6273 | 49 | 127 |
| BLWP4 60L ADP LP840 | 6373 | 49 | 129 |
| BLWP4 60L ADP LP850 | 6555 | 49 | 133 |
| BLWP4 72L ADP LP830 | 7088 | 59 | 121 |
| BLWP4 72L ADP LP835 | 7338 | 59 | 125 |
| BLWP4 72L ADP LP840 | 7455 | 59 | 127 |
| BLWP4 72L ADP LP850 | 7668 | 59 | 131 |
| BLWP4 85L ADP LP830 | 7972 | 68 | 117 |
| BLWP4 85L ADP LP835 | 8253 | 68 | 121 |
| BLWP4 85L ADP LP840 | 8385 | 68 | 123 |
| BLWP4 85L ADP LP850 | 8624 | 68 | 127 |
| BLWP4 100L ADP LP830 | 9316 | 85 | 110 |
| BLWP4 100L ADP LP835 | 9645 | 85 | 114 |
| BLWP4 100L ADP LP840 | 9799 | 85 | 116 |
| BLWP4 100L ADP LP850 | 10079 | 85 | 119 |

BLWP PERFORMANCE DATA (continued)

| Lumen Package | Lumens | Input Watts | LPW |
|------------------------|--------|-------------|-----|
| BLWP2 8LHE ADP LP830 | 851 | 8 | 113 |
| BLWP2 8LHE ADP LP835 | 881 | 8 | 117 |
| BLWP2 8LHE ADP LP840 | 895 | 8 | 119 |
| BLWP2 8LHE ADP LP850 | 921 | 8 | 122 |
| BLWP2 20LHE ADP LP830 | 1932 | 16 | 120 |
| BLWP2 20LHE ADP LP835 | 2000 | 16 | 125 |
| BLWP2 20LHE ADP LP840 | 2032 | 16 | 127 |
| BLWP2 20LHE ADP LP850 | 2090 | 16 | 130 |
| BLWP2 33LHE ADP LP830 | 3272 | 26 | 127 |
| BLWP2 33LHE ADP LP835 | 3388 | 26 | 131 |
| BLWP2 33LHE ADP LP840 | 3442 | 26 | 133 |
| BLWP2 33LHE ADP LP850 | 3540 | 26 | 137 |
| BLWP2 40LHE ADP LP830 | 3991 | 32 | 126 |
| BLWP2 40LHE ADP LP835 | 4132 | 32 | 130 |
| BLWP2 40LHE ADP LP840 | 4198 | 32 | 133 |
| BLWP2 40LHE ADP LP850 | 4318 | 32 | 136 |
| BLWP2 48LHE ADP LP830 | 4881 | 39 | 126 |
| BLWP2 48LHE ADP LP835 | 5053 | 39 | 130 |
| BLWP2 48LHE ADP LP840 | 5134 | 39 | 132 |
| BLWP2 48LHE ADP LP850 | 5280 | 39 | 136 |
| BLWP4 15LHE ADP LP830 | 1375 | 11 | 127 |
| BLWP4 15LHE ADP LP835 | 1424 | 11 | 131 |
| BLWP4 15LHE ADP LP840 | 1447 | 11 | 134 |
| BLWP4 15LHE ADP LP850 | 1488 | 11 | 137 |
| BLWP4 20LHE ADP LP830 | 1985 | 16 | 127 |
| BLWP4 20LHE ADP LP835 | 2055 | 16 | 131 |
| BLWP4 20LHE ADP LP840 | 2088 | 16 | 133 |
| BLWP4 20LHE ADP LP850 | 2147 | 16 | 137 |
| BLWP4 30LHE ADP LP830 | 3012 | 24 | 127 |
| BLWP4 30LHE ADP LP835 | 3118 | 24 | 131 |
| BLWP4 30LHE ADP LP840 | 3168 | 24 | 133 |
| BLWP4 30LHE ADP LP850 | 3258 | 24 | 137 |
| BLWP4 40LHE ADP LP830 | 4181 | 33 | 127 |
| BLWP4 40LHE ADP LP835 | 4329 | 33 | 132 |
| BLWP4 40LHE ADP LP840 | 4398 | 33 | 134 |
| BLWP4 40LHE ADP LP850 | 4524 | 33 | 137 |
| BLWP4 48LHE ADP LP830 | 5033 | 39 | 130 |
| BLWP4 48LHE ADP LP835 | 5211 | 39 | 135 |
| BLWP4 48LHE ADP LP840 | 5294 | 39 | 137 |
| BLWP4 48LHE ADP LP850 | 5445 | 39 | 141 |
| BLWP4 60LHE ADP LP830 | 6280 | 47 | 133 |
| BLWP4 60LHE ADP LP835 | 6502 | 47 | 137 |
| BLWP4 60LHE ADP LP840 | 6606 | 47 | 140 |
| BLWP4 60LHE ADP LP850 | 6795 | 47 | 144 |
| BLWP4 72LHE ADP LP830 | 7303 | 56 | 129 |
| BLWP4 72LHE ADP LP835 | 7561 | 56 | 134 |
| BLWP4 72LHE ADP LP840 | 7682 | 56 | 136 |
| BLWP4 72LHE ADP LP850 | 7901 | 56 | 140 |
| BLWP4 85LHE ADP LP830 | 8567 | 69 | 124 |
| BLWP4 85LHE ADP LP835 | 8869 | 69 | 129 |
| BLWP4 85LHE ADP LP840 | 9011 | 69 | 131 |
| BLWP4 85LHE ADP LP850 | 9268 | 69 | 134 |
| BLWP4 100LHE ADP LP830 | 9898 | 80 | 124 |
| BLWP4 100LHE ADP LP835 | 10247 | 80 | 128 |
| BLWP4 100LHE ADP LP840 | 10411 | 80 | 130 |
| BLWP4 100LHE ADP LP850 | 10708 | 80 | 134 |

Notes

24 For ADP lens only, for additional lens options refer to photometry on www.acuitybrands.com.

BLWP Low Profile LED Wraparound

BLWP8 PERFORMANCE DATA

| Lumen Package | Lumens | Input Watts | LPW |
|----------------------|--------|-------------|-----|
| BLWP8 40L ADP LP830 | 3953 | 30 | 131 |
| BLWP8 40L ADP LP835 | 4113 | 30 | 136 |
| BLWP8 40L ADP LP840 | 4107 | 30 | 136 |
| BLWP8 40L ADP LP850 | 4246 | 30 | 141 |
| BLWP8 60L ADP LP830 | 5799 | 47 | 122 |
| BLWP8 60L ADP LP835 | 6034 | 47 | 127 |
| BLWP8 60L ADP LP840 | 6107 | 47 | 130 |
| BLWP8 60L ADP LP850 | 6229 | 47 | 132 |
| BLWP8 80L ADP LP830 | 7643 | 63 | 121 |
| BLWP8 80L ADP LP835 | 7952 | 63 | 126 |
| BLWP8 80L ADP LP840 | 8035 | 63 | 127 |
| BLWP8 80L ADP LP850 | 8210 | 63 | 130 |
| BLWP8 100L ADP LP830 | 9628 | 82 | 118 |
| BLWP8 100L ADP LP835 | 10017 | 82 | 123 |
| BLWP8 100L ADP LP840 | 10133 | 82 | 124 |
| BLWP8 100L ADP LP850 | 10342 | 82 | 127 |
| BLWP8 140L ADP LP830 | 13265 | 120 | 111 |
| BLWP8 140L ADP LP835 | 13802 | 120 | 115 |
| BLWP8 140L ADP LP840 | 13961 | 120 | 116 |
| BLWP8 140L ADP LP850 | 14249 | 120 | 119 |
| BLWP8 180L ADP LP830 | 17781 | 147 | 121 |
| BLWP8 180L ADP LP835 | 18501 | 147 | 126 |
| BLWP8 180L ADP LP840 | 18714 | 147 | 127 |
| BLWP8 180L ADP LP850 | 19101 | 147 | 130 |
| BLWP8 200L ADP LP830 | 18563 | 156 | 119 |
| BLWP8 200L ADP LP835 | 19314 | 156 | 124 |
| BLWP8 200L ADP LP840 | 19537 | 156 | 125 |
| BLWP8 200L ADP LP850 | 19941 | 156 | 128 |

Notes

24 For ADP lens only, for additional lens options refer to photometry on www.acuitybrands.com.

BLWP8 HE PERFORMANCE DATA

| Lumen Package | Lumens | Input Watts | LPW |
|------------------------|--------|-------------|-----|
| BLWP8 40LHE ADP LP830 | 3953 | 30 | 133 |
| BLWP8 40LHE ADP LP835 | 4113 | 30 | 139 |
| BLWP8 40LHE ADP LP840 | 4160 | 30 | 140 |
| BLWP8 40LHE ADP LP850 | 4246 | 30 | 143 |
| BLWP8 60LHE ADP LP830 | 5942 | 46 | 128 |
| BLWP8 60LHE ADP LP835 | 6183 | 46 | 133 |
| BLWP8 60LHE ADP LP840 | 6254 | 46 | 135 |
| BLWP8 60LHE ADP LP850 | 6383 | 46 | 137 |
| BLWP8 80LHE ADP LP830 | 7820 | 59 | 132 |
| BLWP8 80LHE ADP LP835 | 8136 | 59 | 137 |
| BLWP8 80LHE ADP LP840 | 8230 | 59 | 139 |
| BLWP8 80LHE ADP LP850 | 8400 | 59 | 142 |
| BLWP8 100LHE ADP LP830 | 9723 | 74 | 132 |
| BLWP8 100LHE ADP LP835 | 10117 | 74 | 138 |
| BLWP8 100LHE ADP LP840 | 10233 | 74 | 139 |
| BLWP8 100LHE ADP LP850 | 10445 | 74 | 142 |
| BLWP8 140LHE ADP LP830 | 13491 | 104 | 129 |
| BLWP8 140LHE ADP LP835 | 14037 | 104 | 135 |
| BLWP8 140LHE ADP LP840 | 14198 | 104 | 136 |
| BLWP8 140LHE ADP LP850 | 14492 | 104 | 139 |
| BLWP8 180LHE ADP LP830 | 17245 | 130 | 133 |
| BLWP8 180LHE ADP LP835 | 17943 | 130 | 138 |
| BLWP8 180LHE ADP LP840 | 18150 | 130 | 140 |
| BLWP8 180LHE ADP LP850 | 18525 | 130 | 143 |
| BLWP8 200LHE ADP LP830 | 19587 | 144 | 136 |
| BLWP8 200LHE ADP LP835 | 20380 | 144 | 141 |
| BLWP8 200LHE ADP LP840 | 20615 | 144 | 143 |
| BLWP8 200LHE ADP LP850 | 21041 | 144 | 146 |



KAXW LED Wall Luminaire



| |
|----------------|
| Catalog Number |
| Notes |
| Type |

Hit the Tab key or mouse over the page to see all interactive elements.

Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

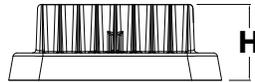
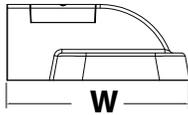
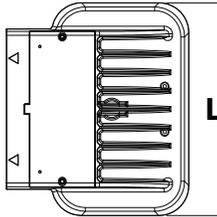
- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a shaded background. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability¹
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a shaded background¹

To learn more about A+, visit www.acuitybrands.com/aplus.

- See ordering tree for details.

Specifications

- Length:** 14"
(35.6 cm)
- Width:** 12"
(30.5 cm)
- Height:** 5"
(12.7 cm)
- Weight (max):** 19.7 lbs
(8.9 kg)



A+ Capable options indicated by this color background.

Ordering Information

EXAMPLE: KAXW LED P3 40K R3 MVOLT DDBXD

| Series | Performance package | Color temperature | Distribution | Voltage | Mounting | Control options | Other options | Finish (required) | |
|----------|---------------------|-------------------|--------------|--|--|--|--|---|--|
| KAXW LED | P1 | 30K 3000 K | R3 Type 3 | MVOLT ¹ | Shipped included (blank) Surface mounting bracket | Shipped installed PER NEMA twist-lock receptacle only (controls ordered separate) ^{3,4} PER5 Five-wire receptacle only (controls ordered separate) ^{4,5} PER7 Seven-wire receptacle only (controls ordered separate) ^{4,5} PIR 180° motion/ambient light sensor, <15' mtg ht ⁶ FAO Field adjustable output ⁷ PIRH Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc ⁶ PIR1FC3V Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc ⁶ PIRH1FC3V Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc ⁶ | Shipped installed SF Single fuse (120, 277 or 347V) ⁸ DF Double fuse (208, 240 or 480V) ⁹ HS House-side shield ¹⁰ LCE Left Conduit Entry ¹¹ RCE Right Conduit Entry ¹¹ | DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DSSXD Sandstone DDBTXD Textured dark bronze DBL BXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white DSSTXD Textured sandstone | |
| | P2 | 40K 4000 K | R4 Type 4 | 120 ¹ 208 ¹ 240 ¹ 277 ¹ 347 ² 480 ² | | | | | Shipped separately BSW Bird-deterrent spikes ¹⁰ EGS External glare shield ¹⁰ |
| | P3 | 50K 5000 K | | | | | | | |

NOTES

- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- Not available in the P1 performance package.
- Not available with ROAM®. See PER5 or PER7 option.
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See Accessories information.
- If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls.
- Specifies the Sensor Switch MSOD-7-ODP control; see [Outdoor Control Technical Guide](#) for details. Dimming driver standard. Not available with PER5 or PER7. Must specify 120V or 277V. Requires PER or separate on/off.

- Not available with PER5 or PER7 options.
- Must specify 120, 277, or 347V option.
- Must specify 208, 240, or 480V option.
- Also available as a separate accessory; see Accessories information.
- Requires a contractor supplied ½" EMT raintight fitting.
- Requires luminaire to be specified with PER, PER5 or PER7 option. Ordered and shipped as a separate line item from Acuity Brands Controls.

Accessories

Ordered and shipped separately.

| | |
|--------------------|---|
| DLL127F 1.5 JU | Photocell - SSL twist-lock (120-277V) ¹² |
| DLL347F 1.5 CUL JU | Photocell - SSL twist-lock (347V) ¹² |
| DLL480F 1.5 CUL JU | Photocell - SSL twist-lock (480V) ¹² |
| DSHORT SBK U | Shorting cap |
| KAXWHS U | House-side shield |
| KAXWBSW U | Bird-deterrent spikes |
| KAXWEGS U | External glare shield |



Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

| Performance Package | System Watts | Dist. Type | 30K (3000 K, 70 CRI) | | | | | 40K (4000 K, 70 CRI) | | | | | 50K (5000 K, 70 CRI) | | | | |
|---------------------|--------------|------------|-------------------------|---|---|---|-----|-------------------------|---|---|---|-----|-------------------------|---|---|---|-----|
| | | | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW |
| P1 | 29W | R3 | 3,322 | 1 | 0 | 1 | 115 | 3,545 | 1 | 0 | 1 | 122 | 3,607 | 1 | 0 | 1 | 124 |
| | | R4 | 3,415 | 1 | 0 | 1 | 118 | 3,643 | 1 | 0 | 1 | 126 | 3,707 | 1 | 0 | 1 | 128 |
| P2 | 49W | R3 | 5,731 | 1 | 0 | 1 | 117 | 6,115 | 1 | 0 | 1 | 125 | 6,222 | 1 | 0 | 1 | 127 |
| | | R4 | 5,891 | 1 | 0 | 1 | 120 | 6,285 | 1 | 0 | 1 | 128 | 6,396 | 1 | 0 | 1 | 131 |
| P3 | 79W | R3 | 8,852 | 1 | 0 | 1 | 112 | 9,445 | 2 | 0 | 2 | 120 | 9,611 | 2 | 0 | 2 | 122 |
| | | R4 | 9,099 | 2 | 0 | 2 | 115 | 9,708 | 2 | 0 | 2 | 123 | 9,879 | 2 | 0 | 2 | 125 |

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-50°C (32-122°F).

* Shaded cells include active dynamic temperature sensing.

| Ambient | Lumen Multiplier | | |
|---------|------------------|------|------|
| | P1 | P2 | P3 |
| 0°C | 1.05 | 1.05 | 1.05 |
| 10°C | 1.03 | 1.03 | 1.03 |
| 20°C | 1.01 | 1.01 | 1.01 |
| 25°C | 1 | 1 | 1 |
| 30°C | 0.99 | 0.99 | 0.99 |
| 40°C | 0.97 | 0.97 | 0.93 |
| 45°C | 0.96 | 0.96 | 0.84 |
| 50°C | 0.95 | 0.95 | 0.74 |

Electrical Load

| Package | | 120V | 208V | 240V | 277V | 347V | 480V |
|---------|--------------|-------|-------|-------|-------|-------|-------|
| P1 | Current (A) | 0.24A | 0.14A | 0.13A | 0.11A | | |
| | System Watts | 29W | 29W | 29W | 29W | | |
| P2 | Current (A) | 0.41A | 0.24A | 0.21A | 0.18A | 0.14A | 0.11A |
| | System Watts | 49W | 48W | 48W | 48W | 47W | 47W |
| P3 | Current (A) | 0.66A | 0.38A | 0.33A | 0.29A | 0.23A | 0.17A |
| | System Watts | 79W | 78W | 78W | 78W | 77W | 76W |

Projected LED Lumen Maintenance

| Operating Hours | 25,000 | 50,000 | 100,000 |
|--------------------------|--------|--------|---------|
| Lumen Maintenance Factor | >0.94 | >0.89 | >0.80 |

Values calculated according to IESNA TM-21-11 methodology and valid up to 40°C.

| Control | PER Table | | | | |
|--|-----------------|---------------|--------------|---------------|--------------|
| | PER (3 wire) | PER5 (5 wire) | | PER7 (7 wire) | |
| | | Wire 4/Wire5 | Wire 4/Wire5 | Wire 6/Wire7 | Wire 6/Wire7 |
| Photocontrol Only (On/Off) | ✓ | ⚠ | ⚠ | ⚠ | ⚠ |
| ROAM | ⊘ | ✓ | ⚠ | ⚠ | ⚠ |
| ROAM with Motion (ROAM on/off only) | ⊘ | ⚠ | ⚠ | ⚠ | ⚠ |
| Future-proof* | ⊘ | ⚠ | ✓ | ✓ | ⚠ |
| Future-proof* with Motion | ⊘ | ⚠ | ✓ | ✓ | ⚠ |

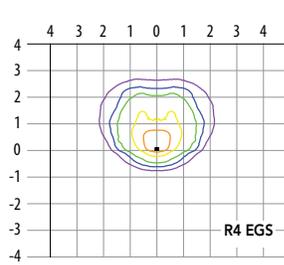
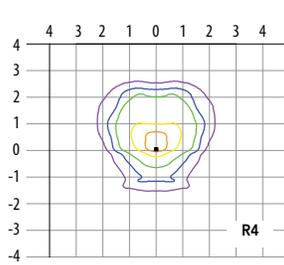
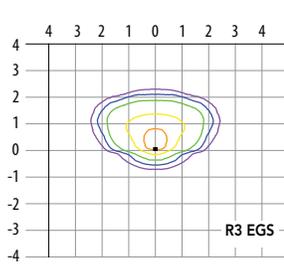
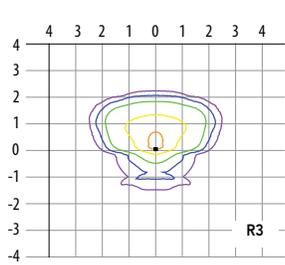
| |
|-----------------|
| ✓ Recommended |
| ⊘ Will not work |
| ⚠ Alternate |

*Future-proof means: Ability to change controls in the future.

Isofootcandle plots for the KAXW LED P3 40K. Distances are in units of mounting height (20').

LEGEND

- 0.1 fc
- 0.5 fc
- 1.0 fc
- 2.0 fc
- 5.0 fc



FEATURES & SPECIFICATIONS

INTENDED USE

This feature-rich luminaire embodies the highest level of functionality with extraordinary efficacy which maximizes your application efficiency providing high levels of light for minimal cost specifically for building-mounted doorway and pathway illumination on nearly any type of facility.

CONSTRUCTION

The die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. This modular design allows for ease of maintenance and future light engine upgrades. The LED driver is installed in a separate compartment to thermally isolate it from the light engines for low operating temperature and long life. The housing is completely sealed against moisture and environmental contaminants (IP65).

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS

Individually formed acrylic lenses are engineered for superior application efficiency which maximizes the light in the areas where it is most needed. Light engines are available in 3000 K, 4000 K or 5000 K (minimum 70 CRI) configurations. The KAXW has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine(s) configurations consist of high-efficiency LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to >L80/100,000 hours). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours.

INSTALLATION

Included wall mount plate facilitates a quick and easy installation. Mounting bolts feature a 1000-hour salt fog finish. Optional bi-level motion sensor and NEMA 3, 5 or 7 pin twist lock photocontrol receptacle are also available.

LISTINGS

CSA Listed for wet locations. Light engines and electrical compartment are IP66 rated. Rated for temperatures as low as -40°C minimum ambient.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

WARRANTY

5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

FEATURES & SPECIFICATIONS

INTENDED USE — LED downlight for retrofit of installed commercial mounting frames with incandescent, compact fluorescent (CFL), or high intensity discharge (HID) sources.

CONSTRUCTION — Innovative housing design that simultaneously retains and centers the fixture in the existing mounting frame.

See table for compatible ceiling opening and thickness ranges.

All installation can be performed from the room side without removing the existing mounting frame.

OPTICS — LEDs are binned to a 3-step SDCM; 80 CRI minimum. 90 CRI optional.

LED light source concealed with diffusing optical lens.

General illumination lighting with 1.0 S/MH and 55° cutoff to source and source image.

Multiple lumen packages to replace the installed base of CFL or HID sources with energy savings of 50%-80%. See Lumen Equivalency Chart.

Self-flanged anodized reflectors in specular, semi-specular, or matte diffuse finishes. Also available in white and black painted reflectors.

ELECTRICAL — Multi-volt (120-277V, 50/60Hz) eldoLED 0-10V dimming drivers available in 10% or 1% minimum dimming levels. Line voltage dimming driver available.

70% lumen maintenance at 60,000 hours.

LISTINGS — Certified to US and Canadian safety standards. Wet location standard (covered ceiling). IP55 rated. ENERGY STAR® certified product.

WARRANTY — 5-year limited warranty. Complete warranty terms located at:

www.acuitybrands.com/support/customer-support/terms-and-conditions

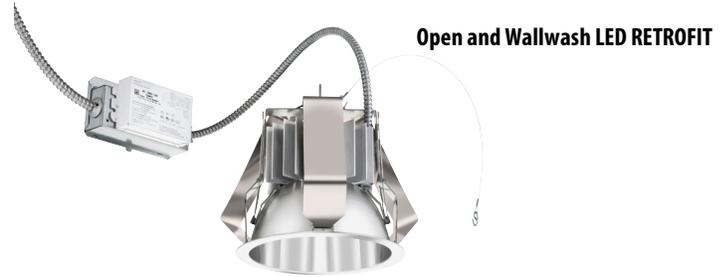
Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

| |
|----------------|
| Catalog Number |
| Notes |
| Type |

LDNRV



A+ Capable options indicated by this color background.

ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: LDN6RV 35/30 LR6AR LSS MVOLT EZ10

| Series | Color temperature | Lumens ¹ | | | | Aperture/Trim Color | | | | | |
|----------------------|-------------------|---------------------|-------------|-----|--------------|---------------------|-----------|----|---------------|-----------------|-------|
| LDN4RV 4-5" retrofit | 27/ 2700K | 05 | 500 lumens | 40 | 4000 lumens | LR | Downlight | 4 | 4-5" aperture | AR | Clear |
| LDN6RV 6" retrofit | 30/ 3000K | 10 | 1000 lumens | 50 | 5000 lumens | LRW | Wallwash | 6 | 6" aperture | WR ² | White |
| LDN7RV 7" retrofit | 35/ 3500K | 15 | 1500 lumens | 60 | 6000 lumens | | | 7 | 7" aperture | BR ² | Black |
| LDN8RV 8" retrofit | 40/ 4000K | 20 | 2000 lumens | 80 | 8000 lumens | | | 8 | 8" aperture | | |
| LDN9RV 9" retrofit | | 25 | 2500 lumens | 100 | 10000 lumens | | | 9 | 9" aperture | | |
| LDN10RV 10" retrofit | | 30 | 3000 lumens | 120 | 12000 lumens | | | 10 | 10" aperture | | |

| Finish | Voltage | Driver | Options |
|-------------------|------------------|---|---|
| LSS Semi-specular | MVOLT Multi-volt | GZ10 0-10V driver dims to 10% | SF ⁴ Single Fuse |
| LD Matte diffuse | 120 120V | GZ1 0-10V driver dims to 1% | TRW ⁵ White painted flange |
| LS Specular | 277 277V | EZ10 eldoLED 10% 0-10V | TRBL ⁵ Black painted flange |
| | | EZ1 eldoLED 1% 0-10V | |
| | | ELV ³ Electronic line voltage / Forward phase / Triac dimming, 120V Only | |
| | | | LH ⁶ Lower overall height |
| | | | NLTAIR2 ^{7,8,9} nLight® Air enabled |
| | | | NLTAIRER2 ^{7,8,9} nLight® AIR Dimming Pack |
| | | | Wireless Controls. Controls fixtures on emergency circuit |
| | | | 90CRI High CRI (90+) |

| Accessories: Order as separate catalog number. | |
|--|--|
| PS1055CP FMC | Power Sentry battery pack, T20 compliant, field installable, 10w constant power |
| EAC ISSM 375 | Compact interruptible emergency AC power system |
| EAC ISSM 125 | Compact interruptible emergency AC power system |
| RK2 SDT 347/120 75VA U | 347V step-down transformer mounted in box installed by others up to 5000lm |
| RK2 SDT 347277120 395VA AD U | 347V step down transformer mounted in box installed by others 6000-12,000lm |
| LDN_RVRGIN | Rough-in frame. Fill in blank with appropriate aperture size (example: LDN6RVRGIN). Refer to pg. 6 |
| nPP16 D EFP ⁴ | nLight network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1). |
| nPP16 D ER EFP ⁴ | nLight network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1). ER controls fixtures on emergency circuit. |
| NPS80EZ | nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ10). |
| NPS80EZER | nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1). ER controls fixtures on emergency |

Notes

- Refer to Available Lumen Package Table for lumen range available per aperture size. 8"-10" trims utilize different trims based on lumen package selected. 5000lm and below supplied with low lumen ("LL") trim; 6000lm and above with high lumen ("HL") trim.
- Not available with finishes.
- 5000 lumen max. Must specify 120V.
- Must specify voltage 120V or 277V.
- Available with clear (AR) trim color only.
- Select LH option for lower overall height. Consult table on Page 2 and dimensional drawings.
- Not available with CP, NPS80EZ, NPS80EZER, NPP16D, NPP16DER or N80 options.
- NLTAIR2 and NLTAIRER2 not recommended for metal ceiling installations.
- NLTAIR2 and NLTAIRER2 refer to nLight AIR Max Lumens Table.

Available Lumen Package Table

| Series | 500 | 1000 | 1500 | 2000 | 2500 | 3000 | 4000 | 5000 | 6000 | 8000 | 10000 | 12000 |
|-------------------------|----------|--------------|----------|----------------|----------------|--------------|-------|-------|------|------|-------|-------|
| LDN4RV | | | | | | | | | | | | |
| LDN6RV | | | | | | | | | | | | |
| LDN7RV | | | | | | | | | | | | |
| LDN8RV | | | | | | | | | | | | |
| LDN9RV | | | | | | | | | | | | |
| LDN10RV | | | | | | | | | | | | |
| Approx. LED Wattage | 8.5W | 13W | 20W | 23W | 30W | 35W | 44W | 55W | 68W | 98W | 117W | 146W |
| Comparable Fluorescent | 18W | 26W | 32W | 1/42W 2/26W | 2/32W 1/57W | >2/32W | 2/42W | 2/57W | | | | |
| Comparable HID | | | | | 50W | 70W | | | 100W | 150W | >175W | 250W |
| Comparable Incandescent | 65W BR30 | 120W BR40 | 150W A21 | 200W A21 | | 300W BR40 | | | | | | |
| Comparable Halogen PAR | 50W | 75W | 90W | 100W | | | | | | | | |

Dimensions*

| Series | Standard Height Max Lumens | Standard Height | LH Height Max Lumens | LH Height | Min Ceiling Opening | Ceiling Thickness at Min Opening | Max Ceiling Opening | Ceiling Thickness at Max Opening | Reflector Aperture | Reflector Flange Diameter |
|---------|----------------------------|-----------------|----------------------|-----------|---------------------|----------------------------------|---------------------|----------------------------------|--------------------|---------------------------|
| LDN4RV | 2000LM | 7-1/4" | N/A | N/A | 4-7/8" | 1/2"-1-1/2" | 5-1/8" | 1/2"-1-1/2" | 4-5/8" | 5-3/8" |
| LDN6RV | 3000LM | 8-1/4" | 1500LM | 6-1/2" | 6" | 1/2" - 2" | 6-7/8" | 1"-2" | 5-1/4" | 7-3/16" |
| LDN7RV | 5000LM | 8-7/8" | N/A | N/A | 6-7/8" | 1/2" - 2" | 7-3/4" | 1"-2" | 6-1/4" | 8-1/16" |
| LDN8RV | 12,000LM | 13 11/16" | 5000LM | 8-5/8" + | 7-7/8" | 1/2" - 2" | 8-3/4" | 3/4"-2" | 7" | 9-3/16" |
| LDN9RV | 12,000LM | 13 11/16" | 4000LM | 9-1/2" | 8-7/8" | 1/2" - 2" | 9-7/8" | 3/4"-2" | 8-1/4" | 11-7/16" |
| LDN10RV | 12,000LM | 13 11/16" | 4000LM | 9-1/2" | 9-3/4" | 3/4"-2" | 10-3/4" | 1"-2" | 8-1/4" | 11-7/16" |

* All dimensions are inches + LH height 9-7/8" for 5000LM +Max ceiling thickness with NLTAIR2 option is 1.5"

ELV COMPATIBLE DIMMER LIST

| ELV Dimmer List | | Light Dimming Range |
|-----------------|-----------|---------------------|
| Mfg. | Model | Min. |
| Lutron | S-603PG | 4% |
| Leviton | IPI06-1LZ | 0% |
| Leviton | 6631-2 | 3% |
| Lutron | DVCL-153P | 3% |
| Lutron | DV600P | 5% |
| Lutron | TGCL-153P | 5% |
| Lutron | S600P | 2% |
| Leviton | VPE06 | 10% |
| Lutron | DVELV303P | 7% |
| Lutron | SELV300P | 7% |
| Leviton | 6683-IW | 0% |
| Leviton | 6161 | 15% |

ELV COMPATIBLE DIMMER LIST

| ELV Dimmer List | | Light Dimming Range |
|-----------------|----------|---------------------|
| Mfg. | Model | Min. |
| Leviton | 6633-P | 1% |
| Lutron | TG-600P | 11% |
| Cooper | DLC03P | 2% |
| Lutron | LG600P | 5% |
| Lutron | CT103P | 8% |
| Cooper | SLC03P | 1% |
| Leviton | IPE04 | 6% |
| Lutron | MAELV600 | 12% |
| Lutron | FAELV500 | 12% |
| Lightolier | ZP260QEW | 8% |
| Cooper | DAL06P | 0% |

NLIGHT AIR MAX LUMENS TABLE

| | Without LH Option | With LH Option |
|---------|-------------------|----------------|
| LDN4RV | 2000lm | N/A |
| LDN6RV | 3000lm | 1500lm |
| LDN7RV | 5000lm | N/A |
| LDN8RV | 5000lm | 5000lm |
| LDN9RV | 5000lm | 4000lm |
| LDN10RV | 5000lm | 4000lm |

PHOTOMETRY

| Distribution Curve | Distribution Data | Output Data | Coefficient of Utilization | Illuminance Data at 30" Above Floor for a Single Luminaire |
|--------------------|-------------------|-------------|----------------------------|--|
|--------------------|-------------------|-------------|----------------------------|--|

LDN4RV 35/10 LR4AR LS, input watts: 10.58, delivered lumens: 1085.2, LM/W=102.57, Spacing criterion at 0=1.04. ISF 30712P544

| Distribution Curve | Ave Lumens | Zone Lumens % Lamp | pf pc pw | 80% | | | 20% | | | 50% | | | 50% beam - 55.6° | 10% beam - 78.0° |
|--------------------|------------|--------------------|---------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------------|------------------|
| | | | | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | | |
| | | | | 0° | 30° | 60° | 0° | 30° | 60° | 0° | 30° | 60° | | |
| | 0 | 1353 | 0° - 30° 1064.0 73.7 | 0 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 | |
| | 5 | 1382 | 134 0° - 40° 1372.4 95.1 | 1 | 111 | 108 | 106 | 109 | 107 | 105 | 105 | 103 | 101 | |
| | 15 | 1442 | 405 0° - 60° 1443.1 100.0 | 2 | 103 | 99 | 96 | 102 | 98 | 95 | 98 | 95 | 93 | |
| | 25 | 1191 | 525 0° - 90° 1443.8 100.0 | 3 | 96 | 92 | 88 | 95 | 91 | 87 | 92 | 89 | 86 | |
| | 35 | 491 | 308 90° - 120° 0.0 0.0 | 4 | 90 | 85 | 81 | 89 | 84 | 80 | 87 | 83 | 79 | |
| | 45 | 69 | 68 90° - 130° 0.0 0.0 | 5 | 85 | 79 | 75 | 84 | 78 | 74 | 82 | 77 | 74 | |
| | 55 | 1 | 2 90° - 150° 0.0 0.0 | 6 | 79 | 73 | 69 | 79 | 73 | 69 | 77 | 72 | 68 | |
| | 65 | 1 | 1 90° - 180° 0.0 0.0 | 7 | 75 | 69 | 64 | 74 | 68 | 64 | 73 | 68 | 64 | |
| | 75 | 0 | 0 0° - 180° 1443.8 *100.0 | 8 | 70 | 64 | 60 | 70 | 64 | 60 | 69 | 63 | 60 | |
| | 85 | 0 | 0 *Efficiency | 9 | 66 | 60 | 56 | 66 | 60 | 56 | 65 | 60 | 56 | |
| 90 | 0 | | 10 | 63 | 57 | 53 | 62 | 57 | 53 | 61 | 56 | 53 | | |

LDN7RV 35/15 LR7AR LS, input watts: 17.52, delivered lumens: 1521.9, LM/W=86.86, Spacing criterion at 0=0.96. ISF 33918P308

| Distribution Curve | Ave Lumens | Zone Lumens % Lamp | pf pc pw | 80% | | | 20% | | | 50% | | | 50% beam - 54.5° | 10% beam - 82.2° |
|--------------------|------------|--------------------|---------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------------|------------------|
| | | | | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | | |
| | | | | 0° | 30° | 60° | 0° | 30° | 60° | 0° | 30° | 60° | | |
| | 0 | 2693 | 0° - 30° 2092.2 69.0 | 0 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 | |
| | 5 | 2782 | 274 0° - 40° 2751.0 90.7 | 1 | 111 | 108 | 106 | 109 | 106 | 104 | 104 | 103 | 101 | |
| | 15 | 2984 | 827 0° - 60° 3030.8 99.9 | 2 | 103 | 99 | 95 | 101 | 97 | 94 | 98 | 95 | 92 | |
| | 25 | 2212 | 991 0° - 90° 3033.9 100.0 | 3 | 96 | 91 | 87 | 94 | 90 | 86 | 92 | 88 | 85 | |
| | 35 | 1014 | 659 90° - 120° 0.0 0.0 | 4 | 89 | 84 | 79 | 88 | 83 | 79 | 86 | 81 | 78 | |
| | 45 | 339 | 268 90° - 130° 0.0 0.0 | 5 | 83 | 77 | 73 | 82 | 77 | 73 | 81 | 76 | 72 | |
| | 55 | 4 | 12 90° - 150° 0.0 0.0 | 6 | 78 | 72 | 68 | 77 | 72 | 67 | 76 | 71 | 67 | |
| | 65 | 2 | 2 90° - 180° 0.0 0.0 | 7 | 73 | 67 | 63 | 73 | 67 | 63 | 71 | 66 | 62 | |
| | 75 | 1 | 1 0° - 180° 3033.9 *100.0 | 8 | 69 | 63 | 59 | 68 | 62 | 58 | 67 | 62 | 58 | |
| | 85 | 0 | 0 *Efficiency | 9 | 65 | 59 | 55 | 64 | 59 | 55 | 63 | 58 | 54 | |
| 90 | 0 | | 10 | 61 | 55 | 51 | 61 | 55 | 51 | 60 | 55 | 51 | | |

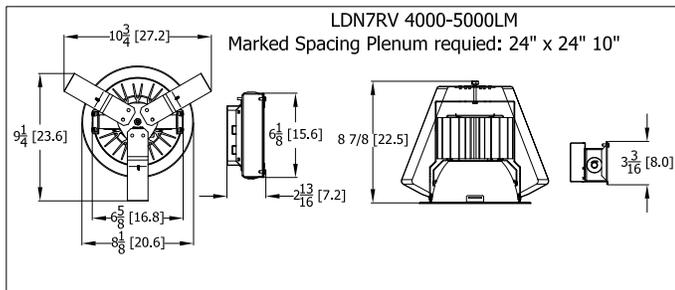
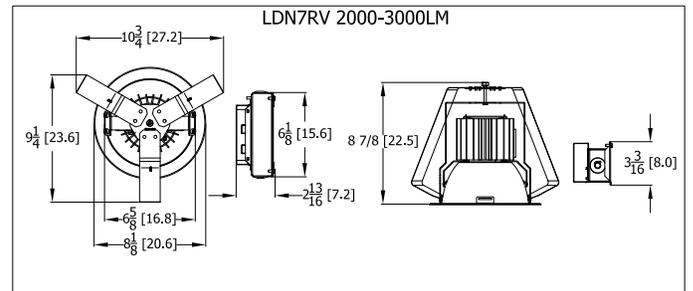
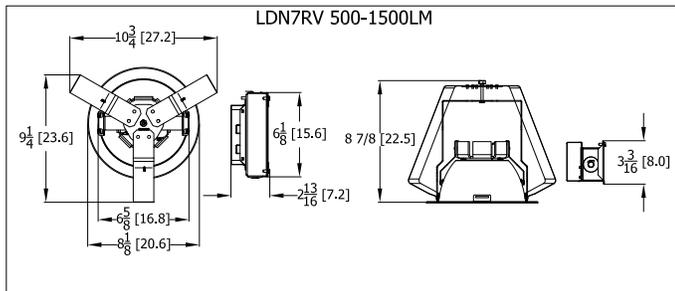
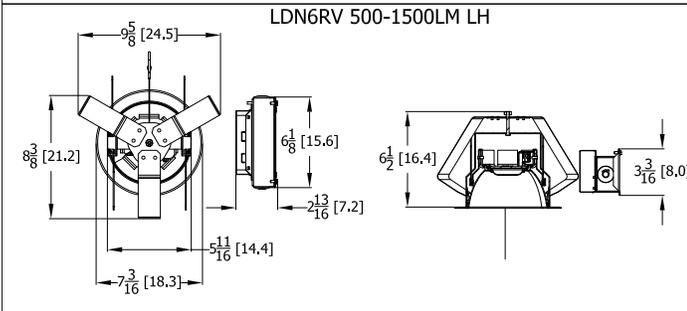
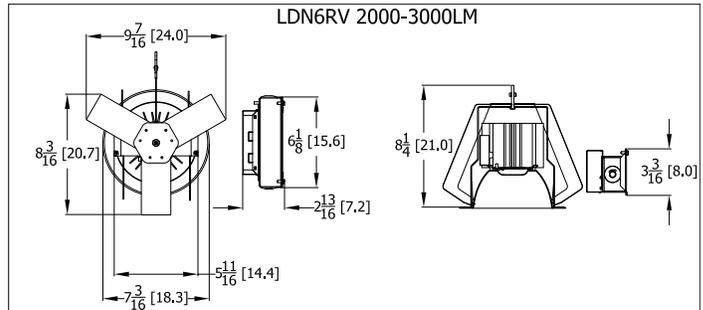
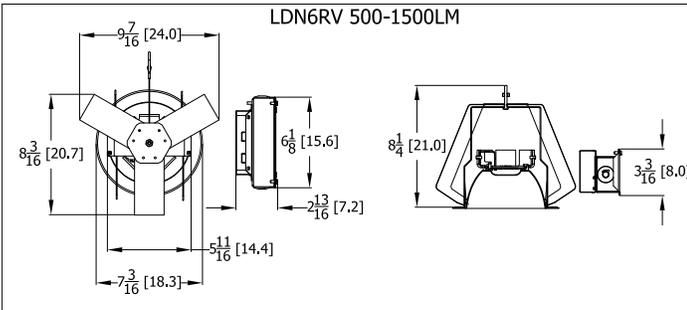
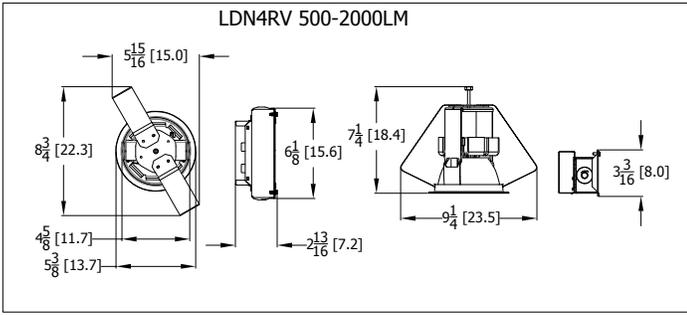
LDN8RV 35/30 LR8AR LS, input watts: 34.75, delivered lumens: 2641, LM/W=67.36, Spacing criterion at 0=1.18. ISF 192189P104

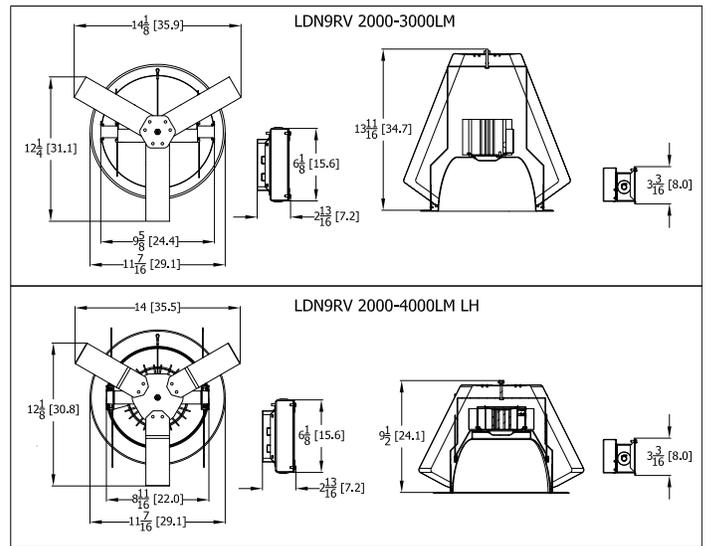
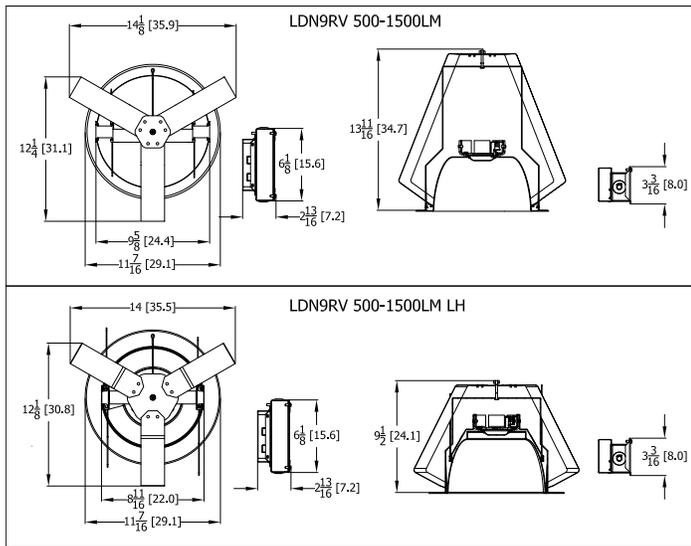
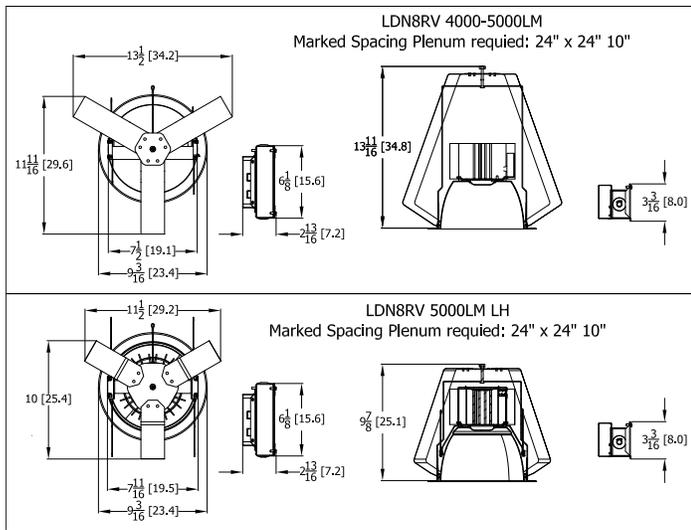
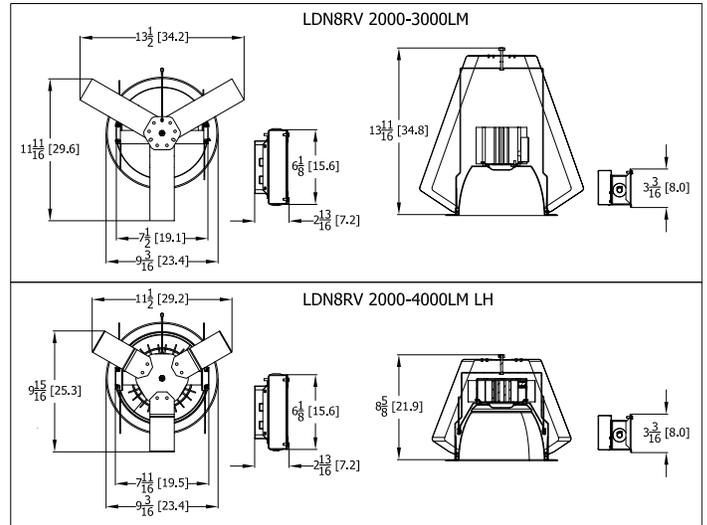
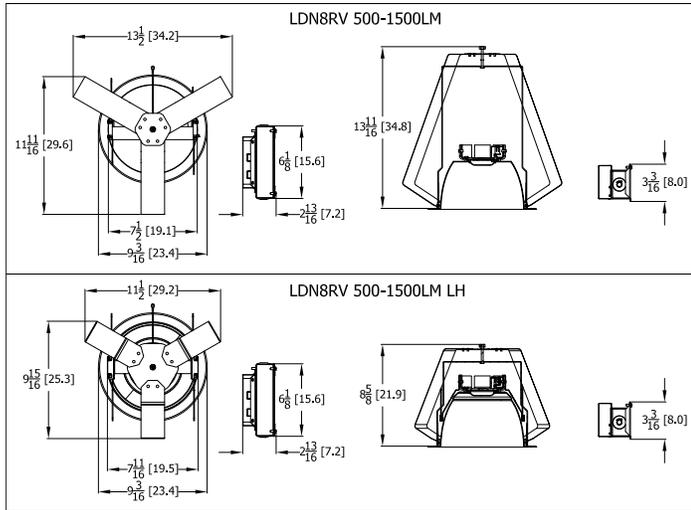
| Distribution Curve | Ave Lumens | Zone Lumens % Lamp | pf pc pw | 80% | | | 20% | | | 50% | | | 50% beam - 61.8° | 10% beam - 76.6° |
|--------------------|------------|--------------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------------|------------------|
| | | | | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | | |
| | | | | 0° | 30° | 60° | 0° | 30° | 60° | 0° | 30° | 60° | | |
| | 0 | 2111 | 0° - 30° 1965.5 74.4 | 0 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 | |
| | 5 | 2223 | 221 0° - 40° 2555.6 96.8 | 1 | 111 | 108 | 106 | 109 | 107 | 105 | 105 | 103 | 101 | |
| | 15 | 2701 | 738 0° - 60° 2637.1 99.9 | 2 | 103 | 99 | 96 | 102 | 98 | 95 | 98 | 95 | 93 | |
| | 25 | 2208 | 1006 0° - 90° 2640.7 100.0 | 3 | 96 | 92 | 88 | 95 | 91 | 87 | 92 | 89 | 86 | |
| | 35 | 927 | 590 90° - 120° 0.0 0.0 | 4 | 90 | 85 | 81 | 89 | 84 | 80 | 87 | 83 | 79 | |
| | 45 | 58 | 67 90° - 130° 0.0 0.0 | 5 | 84 | 79 | 74 | 84 | 78 | 74 | 82 | 77 | 73 | |
| | 55 | 17 | 15 90° - 150° 0.0 0.0 | 6 | 79 | 73 | 69 | 78 | 73 | 69 | 77 | 72 | 68 | |
| | 65 | 2 | 2 90° - 180° 0.3 0.0 | 7 | 74 | 69 | 64 | 74 | 68 | 64 | 73 | 68 | 64 | |
| | 75 | 1 | 1 0° - 180° 2641.0 *100.0 | 8 | 70 | 64 | 60 | 70 | 64 | 60 | 68 | 63 | 60 | |
| | 85 | 0 | 0 *Efficiency | 9 | 66 | 60 | 56 | 66 | 60 | 56 | 65 | 60 | 56 | |
| 90 | 0 | | 10 | 62 | 57 | 53 | 62 | 56 | 53 | 61 | 56 | 53 | | |

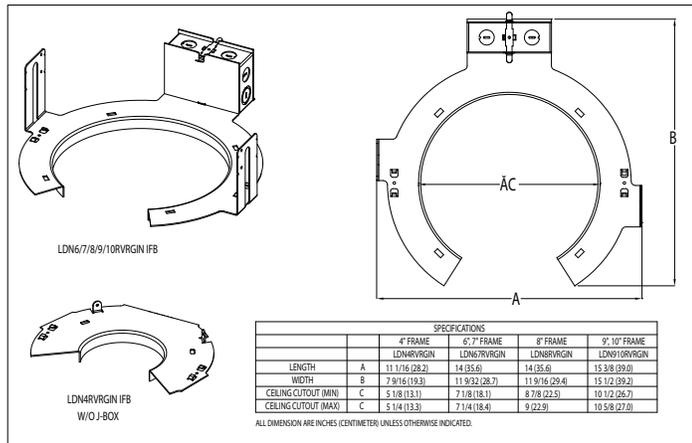
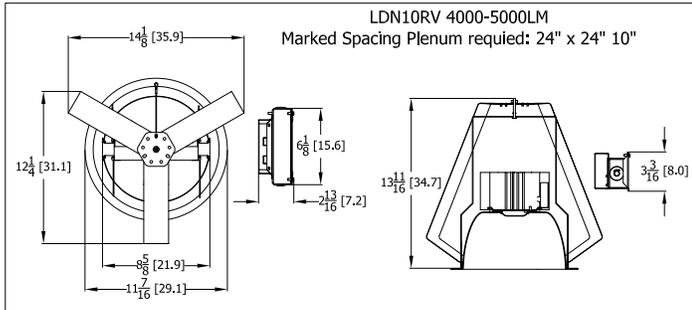
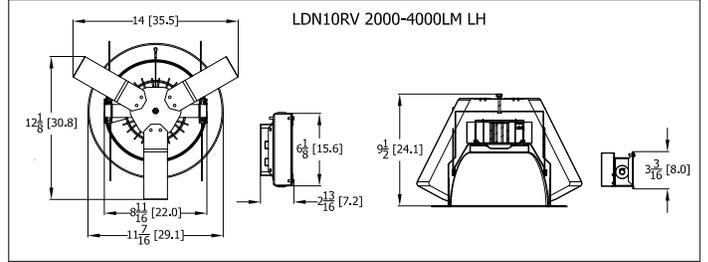
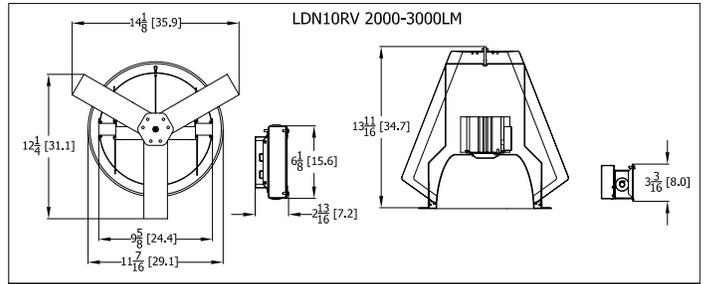
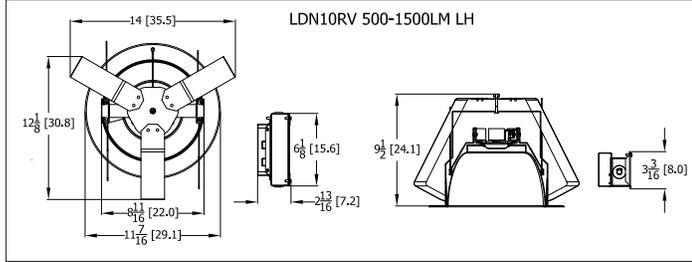
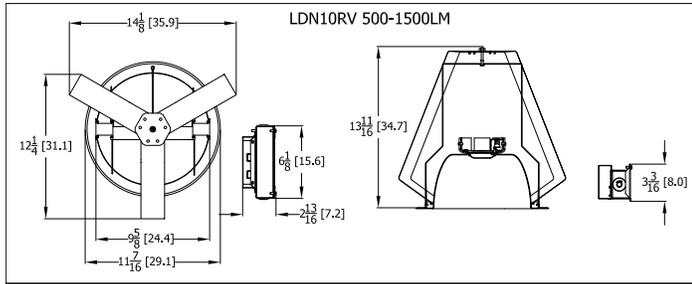
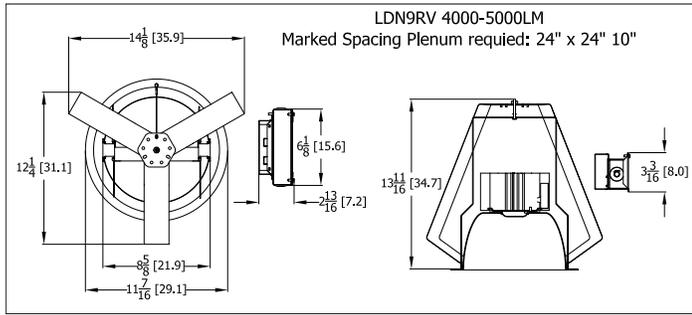
| LUMEN OUTPUT MULTIPLIERS - FINISH | | | |
|-----------------------------------|------------|------------|------------|
| | Clear (AR) | White (WR) | Black (BR) |
| Specular (LS) | 1.0 | N/A | N/A |
| Semi-specular (LSS) | 0.950 | N/A | N/A |
| Matte diffuse (LD) | 0.85 | N/A | N/A |
| Painted | N/A | 0.87 | 0.73 |

| LUMEN OUTPUT MULTIPLIERS - CCT | | | | |
|--------------------------------|-------|-------|-------|-------|
| | 2700K | 3000K | 3500K | 4000K |
| 80CRI | 0.950 | 0.966 | 1.000 | 1.025 |

LDN4RV







Choose Wall Controls.

nLIGHT offers multiple styles of wall controls – each with varying features and user experience.



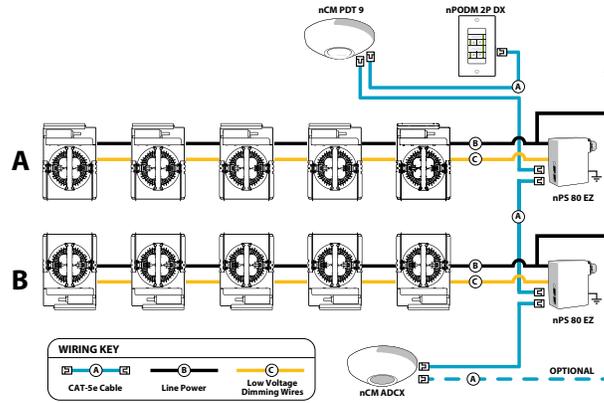
Push-Button WallPod
Traditional tactile buttons and LED user feedback



Touch WallPod
Contemporary capacitive touch style buttons with audible clicker for user feedback



Graphic WallPod
Full color touch screen provides a sophisticated look and feel



EXAMPLE

Group Fixture Control*

*Application diagram applies for fixtures with eldoLED drivers only.

- nPS 80 EZ** Dimming/Control Pack (qty 2 required)
- nPDDM 2P DX** Dual On/Off/Dim Push-Button WallPod
- nCM ADCX** Daylight Sensor with Automatic Dimming Control
- nCM PDT 9** Dual Technology Occupancy Sensor

Description: This design provides a dual on/off/dim wall station that enables manual control of the fixtures in Row A and Row B separately. Additionally, a daylight harvesting sensor is provided so the lights in row B can be configured to dim automatically when daylight is available. An occupancy sensor turns off all lights when the space is vacant.

nLight® AIR Control Accessories:

Order as separate catalog number. Visit www.acuitybrands.com/products/controls/nlightair.

| Wall switches | Model number |
|----------------------------------|---------------------------|
| On/Off single pole | rPODB [color] |
| On/Off two pole | rPODB 2P [color] |
| On/Off & raise/lower single pole | rPODB DX [color] |
| On/Off & raise/lower two pole | rPODB 2P DX [color] |
| On/Off & raise/lower single pole | rPODBZ DX WH ¹ |

Notes

- Can only be ordered with the RES7Z zone control sensor version.

nLight AIR

nLight AIR is the ideal solution for retrofit or new construction spaces where adding communication is cost prohibitive. The integrated nLight AIR rPP20 Power Pack is part of each Indy L-Series Luminaire. These individually addressable controls offer the ultimate in flexibility during initial setup and for space repurposing.



Simple as 1,2,3

- Install the nLight® AIR fixtures with embedded smart sensor
- Install the wireless battery-powered wall switch
- With CLAIRITY app, pair the fixtures with the wall switch and if desired, customize the sensor settings for the desired outcome



A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a shaded background*
- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background*

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details



CNY LED

LED Canopy/Ceiling Luminaire



Catalog
Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

| | CNY LED P0/P1/P2 | CNY LED P3/P4 |
|----------------|------------------|---------------|
| Width: | 10" | 14" |
| Height: | 4.5" | 6" |
| Depth: | 10" | 14" |
| Weight: | 6.5lbs | 13lbs |

Introduction

The CNY LED canopy luminaires are energy efficient and budget friendly, perfect for replacing up to 400W metal halide luminaires while saving up to 80% energy costs. Quick mount mechanism significantly reduces the installation time. An LED array and translucent lens create uniform and visually comfortable illumination. CNY LED luminaires are DLC Premium listed and deliver quick payback!

Ordering Information

EXAMPLE: CNY LED P1 50K MVOLT DDB

| Series | Performance Package | Color Temperature ² | Voltage | Finish |
|---------|--|--------------------------------|-----------------------------|--|
| CNY LED | P0 3,500 lumens ¹ P1 4,500 lumens P2 6,600 lumens P3 11,100 lumens P4 14,000 lumens | 40K 4000K 50K 5000K | MVOLT ³ 120-277V | DDB Dark bronze WH ⁴ White |

Accessories

Ordered and shipped separately.

CNYBCP 14 Inch x 14 Inch Beauty Cover Plate

NOTES

1. The combination of P0 50K WH is not available.
2. Correlated color temperature (CCT) shown is nominal per ANSI C78, 377-2008.
3. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
4. Available with P0 or P1 only.

FEATURES & SPECIFICATIONS

INTENDED USE

CNY LED luminaires are ideal, energy-efficient replacements for up to 400W MH canopy or ceiling luminaires. The CNY LED provides years of maintenance-free illumination for schools, malls, offices, parking areas, covered walkways and loading docks.

CONSTRUCTION

Cast-aluminum, corrosion-resistant housing with polyester powder paint for lasting durability. Castings are sealed with a one-piece gasket. Rated for outdoor installations, -40°C minimum ambient. Frosted lens is designed for uniform light distribution.

ELECTRICAL

Includes an MVOLT (120-277V) driver. LEDs maintain 70% of light output at 50,000 or more hours of service life (L70/50,000 hours).

INSTALLATION

Mounts to a recessed junction box or surface mount with three conduit entry points. Can be pendant mounted with ¾ NPT pendant stem provided by others. Quick mount mechanism significantly reduces installation time - no need to open the luminaire for installation.

LISTINGS

UL Listed to U.S. and Canadian safety standards for wet locations. Tested in accordance with IESNA LM-79 and LM-80 standards.

DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified. Can be used to comply with California Title 24 Part 6 High Efficacy LED light Source Requirements.

WARRANTY

Five-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



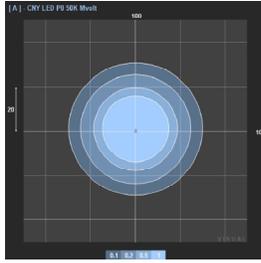
Photometric Diagrams

Full photometric data report available within 2 weeks from request. Contact [Acuity Tech Support](#).

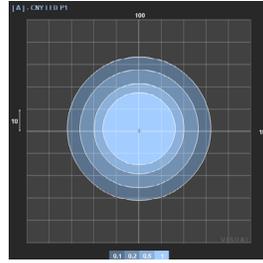
CNY LED - Mounting height = 10

LEGEND

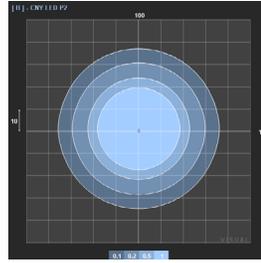
- 0.1 fc
- 0.2 fc
- 0.5 fc
- 1.0 fc



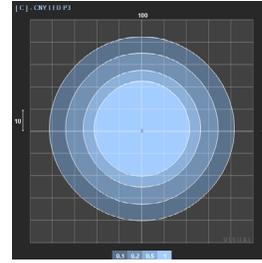
CNY LED P0



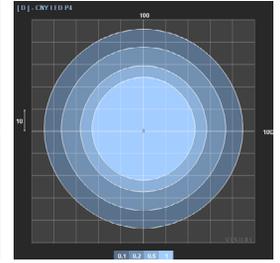
CNY LED P1



CNY LED P2



CNY LED P3

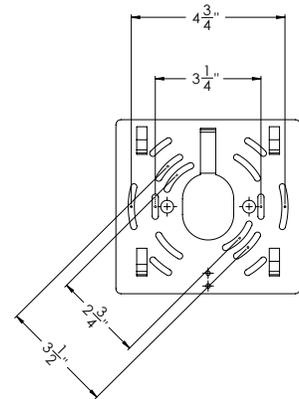
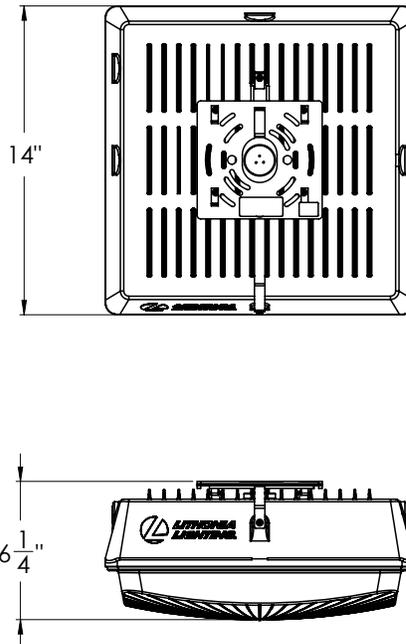
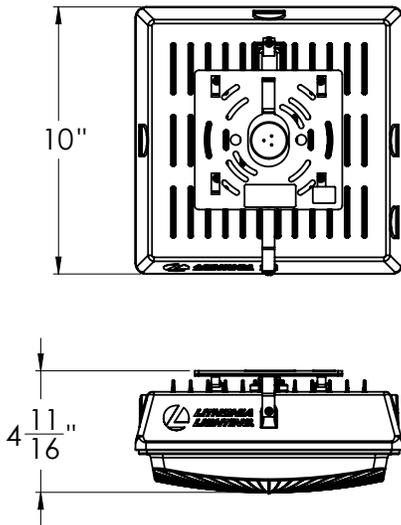


CNY LED P4

Performance Data

| Performance Package | Lumens | Input Power | Lumens Per Watt |
|---------------------|--------|-------------|-----------------|
| CNY LED P0 | 3,500 | 27W | 130 |
| CNY LED P1 | 4,500 | 35W | 127 |
| CNY LED P2 | 6,600 | 52W | 128 |
| CNY LED P3 | 11,000 | 86W | 128 |
| CNY LED P4 | 13,900 | 109W | 128 |

Line Art



The Powering Safe Communities Program

2020 Program Guidelines



The Metropolitan Mayors Caucus is proud to partner with ComEd to administer the Powering Safe Communities program. The Powering Safe Communities program will continue to provide grants of up to \$10,000 for local public safety projects. Recognizing that electrification can reduce carbon emissions, improve public health outcomes, and advance community resiliency, there will be a special focus on electrification projects this year.

Key Dates

Grant Cycle Opens: January 17, 2020, 9:00 a.m. Central Time

Grant application deadline: March 13, 2020, 5:00 p.m. Central Time

A. Goals

The *Powering Safe Communities* grant program seeks to:

1. Enhance the quality of life in cities, villages, and towns in the ComEd region and among Metropolitan Mayors Caucus member communities;
2. Enable local governments to provide for the health and safety of their residents and visitors;
3. Address unmet public safety needs;
4. Advance local sustainability;
5. Leverage additional resources to efficiently deliver public safety programs and services;
6. Enable the use of technology to improve public safety and emergency response;
7. Provide for the safety of the greatest number of people and vulnerable populations;
8. Foster collaboration and cooperation in the community to create a culture of safety and wellness as referenced in the Metropolitan Mayors Caucus' Greenest Region Compact 2;
9. Demonstrate innovation, professionalism and cost-effective strategies;
10. Support leadership in public safety and activities that lead to recognition and accreditation;
11. Build community resiliency and enhance preparedness;
12. Improve public health outcomes;
13. Improve public safety relative to the use and distribution of electricity.

B. Eligibility

Municipalities, townships, counties, and other local governments that provide for the safety of the public within ComEd's service territory ([see map](#)) in the following counties are eligible to apply: *Boone, Bureau, Carroll, Cook, DeKalb, DuPage, Ford, Grundy, Henry, Iroquois, Jo Daviess, Kane, Kankakee, Kendall, Lake, LaSalle, Lee, Livingston, Marshall, McHenry, Ogle, Rock Island,*

Stephenson, Whiteside, Will, Winnebago and Woodford. Not-for-profit organizations are eligible to apply if they partner with at least one municipality.

Previous recipients of a *Powering Safe Communities* grant are ineligible. Applicants must be in good standing with ComEd related to provision of utilities.

C. Eligible Activities

The purchase of goods or services that enhances the applicant's ability to achieve the Goals in section A described above, are eligible costs. These include:

1. Public Safety Equipment

Equipment that enhances the safety of the general public including traffic safety, communications, monitoring, protective and other equipment.

2. Emergency Response Equipment and Supplies

Equipment that enhances the ability of first-responders to provide for the safety and welfare of the general or targeted populations including specialized emergency response, emergency transport, communications, and other essential emergency equipment; and specialty emergency response supplies not otherwise available.

3. Disaster Preparedness and Resiliency

Equipment and supplies that improve the ability of the community to prevent and respond to disasters, and mitigate resulting threats.

4. Public Safety Programs and Plans

Public education and engagement programs that prepare residents for disaster, reduce threats to vulnerable populations, and foster cooperation and collaboration to improve the long-term safety of the community; training resources and programs for government officials that improve skills, and other programs that meet the *Powering Safe Communities* grant program goals; and public safety plans that optimize a local government's ability to deliver services.

5. Electrification Projects (Special Focus area)

Electrification is the use of electric energy efficient technologies as alternatives to fossil fuels or non-energized processes. Electrification projects that improve public health outcomes, provide for cleaner transportation options, and conserve the usage of energy are eligible. Examples of electrification projects include, but are not be limited to, projects that:

- Electric vehicle charging station(s)
- Electric vehicle purchase

If you have any questions, please contact Brian Tomkins at 312-201-4508 or btomkins@mayorscaucus.org.

D. Ineligible Expenses

Grant funds may not be used for lobbying activities; activities that are required in connection with regulatory compliance; capital costs; or to pay staff salaries*. Grant funds cannot be used

to pay private vendors for training or services otherwise offered through professional associations and public agencies, or to purchase routine supplies.

*the cost of staff time needed to complete the project is eligible as a matching contribution towards the required 50% match.

D. Grant Matching and Reimbursement

Match Required

Recipients should match grant funds awarded with a direct equal expenditure of the organization's own funds, and/ or through in-kind contribution of goods and services of equal or greater value. *Therefore, 50% of the total project costs are paid for by the Powering Safe Communities grant award and 50% of the costs are paid by the grant recipient.*

The source of matching contributions must be identified at the time of application. Direct and matching expenditures must be documented and documents must be submitted to the Caucus to receive grant reimbursement. Details will be provided at the time of award. In-kind matching contributions must be documented with employee time and work records. Contribution of volunteer labor can be applied to matching requirement with adequate documentation.

Matching contributions in excess of grant award (over-match) with proper documentation is encouraged. Applicants unable to make matching contributions may request a reduction or waiver at the time of application.

Reimbursement

All grants are awarded on a reimbursement basis. Successful completion of the project or procurement; documentation of expenditures and expenses; and a submission of a reimbursement request and report are required for grant recipients to receive payment.

Successful applicants will be notified of a grant award and will enter into a grant agreement with the Metropolitan Mayor Caucus. Recipients must submit semi-annual progress reports. Grant recipients must complete their projects at any time prior to March 31, 2021.

Reimbursement payments will be made promptly by the Metropolitan Mayors Caucus.

Retroactive reimbursement for costs accrued between the application deadline and the grant award may be allowed on a case-by-case basis. All requests for such reimbursement must be made in writing to Brian Tomkins at btomkins@mayorscaucus.org.

Awards are made based on the project presented in the application. Any major changes to the scope of a project must first be approved to avoid forfeiting the grant award. Contact Brian Tomkins at btomkins@mayorscaucus.org if you anticipate there will be a major change to your project scope.

E. Application information

The administrator of the Powering Safe Communities program is the Metropolitan Mayors Caucus.

Applications are accepted online at <https://metropolitanmayorscaucus.submittable.com/submit>. Create a free profile to begin the submission process.

- Decisions on grant awards will be announced by *early July 2020*. All communication regarding your application, including grant decision, will be directed to the contact person listed on your application.
- Partial funding is possible for your project.
- Support letters are strongly encouraged.
- Applications will be reviewed by a team comprised of professionals in the fields of public safety, transportation, urban planning, and public health. Final decisions on award recipients and amounts are at the discretion of ComEd.
- Applications must be received by 5:00 p.m. Central Time on March 13, 2020.

F. Grant Conditions

- Grants will be for amounts up to \$10,000.
- Failure to submit a final grant report with all of the required attachments by the posted deadline may prohibit applicants from participating in any future grant cycles. If you have questions about the final grant report and its attachments, please reach out to Brian Tomkins at btomkins@mayorscaucus.org.
- During the grant period, award recipients will agree to participate in the events or media inquiries and to identify ComEd as a funder in any materials produced to explain or promote the funded project.

G. Budget Instructions

Use this guide to develop your project Budget. Then submit the completed Budget form in the Application, (*Application Section C*). Cost must relate to the grant project, be allowable, and align with your Work Plan (*Application Section D*). (No need to submit the Sample Budget.)

Costs are to be divided between those eligible for reimbursement from the grant and those to be paid by your organization as your matching share. Therefore, only budget items in *Section I. Purchased Goods and Services, Column B*, are to be charged to the grant request. You may propose to spend more on these items than the maximum grant allowed (\$10,000) if you contribute your own agency funds for that purpose. *See sample budget.*

The proposed Match, Column C, must be 50% or more of the proposed Total Project Cost, Column D.

Download the [Budget Form and Instructions](#). Complete the Budget Form in Microsoft Excel then upload it to your online application. Sample budget below.

| Project Title: <i>Automatic External Defibrillators for Anytown Public Buildings</i> | | | |
|--|---------------|--------------|--------------------|
| A | B | C | D |
| Expense | Grant Share | Match | Total Project Cost |
| Purchased Goods & Services | | | |
| AED purchase | 10,000 | 5,000 | |
| <i>I. Sub Total Purchase</i> | <i>10,000</i> | <i>5,000</i> | <i>15,000</i> |

| Matching In-House Services | | | |
|---|-----------------|---------------|-----------------|
| AED installation by facility manager | | 500 | |
| Staff training by Chief | | 3,500 | |
| <i>II. Sub Total In-House</i> | | <i>4,000</i> | <i>4,000</i> |
| Matching Donated Services | | | |
| Training Assistance from Community Hospital | | 1,000 | |
| <i>III. Sub Total Donated</i> | | <i>1,000</i> | <i>1,000</i> |
| Total I, II, III | \$10,000 | 10,000 | \$20,000 |

Prepare Budget:

- a. Assemble cost estimates for all eligible costs related to the grant project
- b. Itemize estimated payment for each good and/or service. Enter probable vendor, if known. *(i.e., total cost of AED purchase – ACME Medical Supplies: \$15,000).*
- c. Enter the amount of the goods or services that you would like to pay using grant funds in *Column B, Section I.* to a maximum of \$10,000. *(i.e. AEDs, \$10,000)*
- d. Enter the amount of the goods or services (in excess of a \$10,000 grant) that you will contribute as your match in *Column C Section I.* *(i.e., AED purchase \$5,000.).*
- e. Enter the amount of in-kind services your agency will contribute as match in *Column C Section II.* *(i.e. AED installation; \$500; staff training provided by officers \$3,500).*
- f. Enter the amount of any volunteer services from partners in *Column C Section III.* *(i.e. Training Assistance from Community Hospital \$1,000).*
- g. Briefly describe each item in the Budget Form.
- h. Total All Columns. **The Total of Section I. Column B is your grant request. The Total of Column C is your agency’s Match. The total in Column D should be your total expenditure for all purchases related to your project.**
- i. Explain your Budget in the Workplan Narrative

Contact:

Brian Tomkins
Metropolitan Mayors Caucus
312-201-4508
btomkins@mayorscaucus.org



ITEM SUMMARY

| | |
|---------------------------------------|--|
| Reviewing Body / Meeting Date: | Committee of the Whole |
| Subject: | Whytegate Park Athletic Court Resurfacing Project |
| Action Requested | Consideration of Approval of Contract with Evans and Sons Blacktop, Inc. for Whytegate Athletic Court Resurfacing and Color Coating in an Amount not to Exceed \$105,000 (Village of Lincolnshire) |
| Prepared By: | Marc Facchini – Public Works Management Analyst |
| Staff Recommendation: | Consideration and approval |
| Budgeted Amount: | \$125,000.00 |
| Actual Amount: | \$105,000.00 |
| Level of Service Impact: | Resurface of Whytegate Park Tennis and Basketball Courts |
| Meeting History: | N/A |
| Tentative Meeting Schedule: | <u>April 27, COW</u> <u>May 11, Village Board</u> |
| Reports / Documents Attached: | 1) Whytegate Park Athletic Court Resurfacing Bid Specifications 2) March 17, 2020 Whytegate Park Athletic Court Resurfacing Bid Tabulation |

Request Summary

Approval of Professional Service Agreement with Evans & Son Blacktop for the resurfacing of Whytegate Park tennis and basketball court.

Project Description

On Tuesday, March 17, 2020, bids were opened for the Whytegate Park Tennis Court and Basketball Court Resurfacing project. The Village received one bid proposal for the project from Evan’s & Son Blacktop Inc. As directed by the Park Board, the specifications for the project call for posts, straps, and nets for a pickleball court. Currently, there are two tennis courts and one basketball court at Whytegate Park. Upon completion of the project, there will be one basketball court, one tennis court, and one pickleball court.

The specifications call for a complete resurface and color coat of one basketball court, one tennis court and the replacement of one tennis court for a pickleball court. Pickleball is a combination of tennis, badminton, and table tennis. The village received feedback from the community by way of surveys and direction from the Park Board in favor of a pickleball court. The timing of this project comes as an opportunity to fulfill the feedback from the community and Park Board through transitioning one tennis court into a pickleball court.

Budget Impact

The Village budgeted \$125,000.00 for the Whytegate Park Tennis and Basketball Court Resurfacing Project. The base bid including allowances total \$105,000.00. An alternative bid including the complete excavation and replacement of the original base layer with a new 6” aggregate base would be a total of \$156,000.00.



Level of Service Impact

Due to the current condition of the athletic courts, the resurfacing of the existing tennis and basketball courts are necessary for the safety of residents who frequent Whytegate Park.

Approval Process

An initial review by the Committee of the Whole on April 27, 2020, with a recommendation to be placed on the Consent Agenda for final approval on May 11, 2020.

Staff Recommendation / Next Steps

Staff recommends approval of a professional service contract with Evans & Son for the Whytegate Park Tennis and Basketball Court Resurfacing Project.

**VILLAGE OF LINCOLNSHIRE
2020 WHYTEGATE PARK
TENNIS/BASKETBALL COURT RESURFACING PROJECT**

TO: Mayor and Board of Trustees
Village of Lincolnshire
One Olde Half Day Road
Lincolnshire, Illinois 60069

FROM: EVANS & SON BLACKTOP, INC.
Company
3N775 POWERS ROAD
Address
WEST CHICAGO, IL 60185
City State Zip
(630) 377-1212
Telephone

Dear Mayor and Trustees:

We, the undersigned, hereby propose to furnish all labor, materials, tools and services required to conduct the **Whytegate Park Tennis/Basketball Court Resurfacing Project** for the Village of Lincolnshire, Illinois in accordance with the Plans and Specifications, Notice to Bidders, Instructions to Bidders, and forms of Contract and bid bond.

The undersigned declares that we have examined said Plans and Specifications and acknowledges that the same are accurate and complete and are approved by the undersigned.

The undersigned agrees that the contract shall be for a one year period, but shall provide that it can be extended, on an annual basis, at the option of the Village of Lincolnshire in its sole and absolute discretion, for up to two additional years, on the terms in the bid document submitted in response to the request for proposal.

The undersigned agrees to commence work not later than 10 calendar days of the notice to proceed from the Village, and to complete the project within the time frame specified in the Terms and Conditions.

RETURN WITH BID

The Contractor understands that a contract to purchase products and/or work shall be formed based upon the terms of the RFP upon acceptance of Contractor's proposal by the Village and that the Village will not execute any form of contract submitted by the Contractor. No substitutes will be permitted unless specified by the Contractor in the proposal and approved by the Village.

The undersigned submits the following Schedule of Unit Prices for the work to be performed as shown on the Plans and Specifications, and agrees that the items of work not specifically mentioned in the Schedule which are necessary and required to complete the work intended shall be done incidental to and as part of the items of work for which a unit price is given, and understands that no additional payment will be made for such incidental work.

The undersigned has received and considered in this proposal the following:

Addendum # _____
Addendum # _____
Addendum # _____

If no addenda were received, mark not applicable.

The undersigned agrees to submit a performance bond equal to 110% of the value of the contract amount at the time of execution of the contract with the successful bidder.

The prices stated in this proposal are guaranteed for 45 days from the date hereof, and if awarded the work within that period, we agree to complete the work covered by this Proposal at said prices.

Dated this 2 day of MAR 2020.

Respectfully submitted,

EVANS & SON BLACKTOP, INC.

Company

By [Signature]
Title

VICE PRESIDENT

RETURN WITH BID

VILLAGE OF LINCOLNSHIRE

2020 WHYTEGATE PARK TENNIS/BASKETBALL COURT RESURFACING

BID FORM

CONTRACTOR'S NAME: Eugene J. San Benettop
ADDRESS: 3N775 POWIS RD
West Chicago IL 60185
TELEPHONE NUMBER: 630-377-1212
PRINTED NAME: Alexander Sandoz
SIGNATURE: [Signature]
DATE: 3/16/20

COST OF WORK:

The undersigned, having familiarized [himself/herself] with conditions affecting the cost of the work and its performance and having carefully examined and fully understood the INSTRUCTION TO BIDDERS, hereby affirms and agrees to enter into a contract with the Village of Lincolnshire, Illinois;

The undersigned hereby also certifies that in accordance with 710 ILCS 7/33E-11 that the Bidder is not barred from submitting a bid for this contract as a result of a violation of either Section 33E-3 or Section 33E-4 concerning bid rigging, bid rotating, kickbacks, bribery and other interference with public contracts;

To PROVIDE all supervision, labor, material, equipment, and all other expense items to perform completely the entire work covered by all specifications for the entire work;

LOCATION: WHYTEGATE PARK , 299 WHYTEGATE COURT, LINCOLNSHIRE, IL 60069

| | | |
|-----------------------|----------------------------------|--------------------------------|
| BASE BID SUM OF | <u>NINETY THOUSAND</u> | Dollars (\$ <u>90 000</u>) |
| ALLOWANCE SUM OF | <u>Fifteen Thousand</u> | Dollars (\$ <u>15,000.00</u>) |
| FOR TOTAL LUMP SUM OF | <u>ONE HUNDRED FIVE THOUSAND</u> | Dollars (\$ <u>105 000</u>) |
| *ALTERNATE BID 1 | <u>FIFTY-ONE THOUSAND</u> | Dollars (\$ <u>51 000</u>) |
| *ALTERNATE BID 2 | <u>ONE HUNDRED THOUSAND</u> | Dollars (\$ <u>100 000</u>) |

RETURN WITH BID

Alternate Bid Descriptions

Alternate Bid 1: If after milling, existing subgrade is found to be in poor condition, contractor would then excavate and remove the entire original base and replace all sport court areas with a new 6" aggregate base.

Alternate Bid 2: If after milling, existing subgrade is found to be in poor condition, contractor would then excavate and remove the entire original base and replace all sport court areas with a new 12" aggregate base.

***Note:** The Village would make the final determination on whether or not to proceed with one of the alternate bids listed above.

RETURN WITH BID

Unit Prices

The undersigned submits the following UNIT PRICING LIST to be performed as described in the specifications, and agrees that items of work not specifically mentioned which are necessary and required to complete the work intended shall be done incidental to and as part of the work for which a unit price is given, and understands that no additional payment will be made for such incidental work from the estimated quantities shown below. Unit prices for individual line items shall be used for the project's schedule of values, pay applications and will also be used to determine the amount to ADD TO or DEDUCT FROM the contract LUMP SUM PRICE for properly authorized additional or deducted work. **Include the total cost of each unit price item in the Lump Sum Base Bid Amount above.**

| Item | Description | Unit | Base Bid Quantity | Unit Price* |
|------|---|--------|-------------------|-------------|
| 1 | Remove and replace 10' high chain link fence fabric | FOOT | 100 | \$ |
| 2 | Remove and replace line post and footing (10' exposed height) | EA | 10 | \$ |
| 3 | Crack Repair | FOOT | 600 | \$ 15 |
| 4 | Edwards 40LS Tennis Net | EA | 1 | \$ 370 |
| 5 | Edwards 2-7/8" Classic Round Tennis Net Posts (Green) | EA | 2 | \$ 370 |
| 6 | Collins Tennis Net Center Strap | EA | 1 | \$ 70 |
| 7 | Edwards PickleBall Net 36" H X 22' Long | EA | 1 | \$ 250 |
| 8 | Edwards Pickleball Post 3" Round Net 36" (Green) | EA | 2 | \$ 2300 |
| 9 | Collins Pickelball Net Center Strap | EA | 1 | \$ 370 |
| 10 | Gared Heavy Duty 5-9/16" O.D. Gooseneck Basketball Package PK6025 | EA | 2 | \$ 3500 |
| 12 | Landscape Restoration | LUMP | 1 | \$ 5000 |
| 13 | Color Coat | Sq Ft. | 20,000 | \$ 0.84 |

* Costs to be provided by Bidder

RETURN WITH BID

CONTRACTOR'S CERTIFICATION

EVANS & SON BLACKTOP, INC., of WEST CHICAGO
Illinois, as part of its bid on a contract for
SPORT COURTS for the Village of Lincolnshire,
hereby certifies that said contractor is not barred from bidding on the
aforementioned contract as a result of a violation of either Section 5/33E-3 or
5/33E-4 of Article 33E of Chapter 720 of the Illinois Compiled Statutes, 1994.

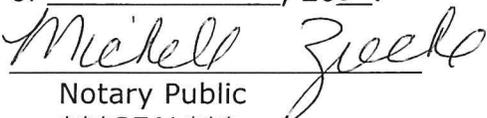
EVANS & SON BLACKTOP, INC., having submitted a bid/proposal
for **Whytegate Park Tennis/Basketball Court Resurfacing** to the Village of
Lincolnshire, hereby certifies that said contractor has a written sexual harassment
policy in place in full compliance with Chapter 775 ILCS 5/2-105(A), 1994.

I, HOWARD A. JONES duly authorized agent for
EVANS & SON BLACKTOP, INC., having been first duly sworn depose and state as
follows:

1. The above-named company is not delinquent in payment of any tax
administered by the Illinois Department of Revenue or if it is:
2.
 - a. It has previously filed the appropriate document contesting its liability for
the tax or the amount of tax in accordance with procedures established by
the appropriate revenue Act; or
 - b. It has entered into an agreement with the Department of Revenue for
payment of all its taxes due and is in compliance with that agreement.

By: 
Signature
HOWARD A. JONES
Name, printed
Authorized Agent of Contractor

Subscribed and sworn to
before me this 2 day
of MAR, 2020.


Notary Public
SEAL



RETURN WITH BID

PREVAILING WAGE ACT NOTIFICATION TO CONTRACTORS

Pursuant to P.A. 96-0437, effective January 1, 2010, a public body that fails to provide written notice to its public works contractors that a project is subject to Illinois prevailing wage requirements is, itself, liable for interest, penalties and fines as stated under Section 4(a-3) of the Act. Failure by the public body to provide written notice does not relieve the contractor of the duty to comply with the prevailing wage rate, nor of the obligation to pay any back wages, to the extent applicable under the Act. This notice is being provided for the mutual benefit of you and the Village.

This contract may call for the performance or delivery of a "public work," within the meaning of the Illinois Prevailing Wage Act, 820 ILCS 130/.01 et seq. ("the Act"). The Act requires contractors and subcontractors, to the extent that the Act applies, to pay laborers, workers and mechanics performing services on public works projects no less than the "prevailing rate of wages" (hourly cash wages plus fringe benefits) in the county where the work is performed. Related to the Act, the Substance Abuse Prevention on Public Works Projects Act, 820 ILCS 265/1, et seq., requires contractors and subcontractors performing services on public works to have in place a written substance abuse program, which meets or exceeds the program requirements in this Act, on file with the Village.

As the prevailing rate of wages are revised by the Department of Labor and are available on the Department's official website, the revised prevailing rate of wages shall apply to this contract and the cost therefore shall be borne solely by the contractor.

To the extent that the Act applies, all contractors and subcontractors rendering services under this contract must comply with all requirements of the Act, including but not limited to, all wage, notice and record keeping and submittal duties, including the Substance Abuse Prevention on Public Works Act. If the contractor determines that the Act does not apply to it, contractor shall—in lieu of certified payrolls—submit a letter stating that the Act does not apply to it and setting forth the reasons therefore.

RETURN WITH BID

CONTRACTOR REFERENCES

Please list below four (4) references for which your firm has performed similar work for municipalities as identified in Bidder Qualifications.

Municipality: _____
Address: _____
City, State, Zip Code: _____
Contact Person/ Telephone Number: _____
Dates of Service/ Award Amount: _____

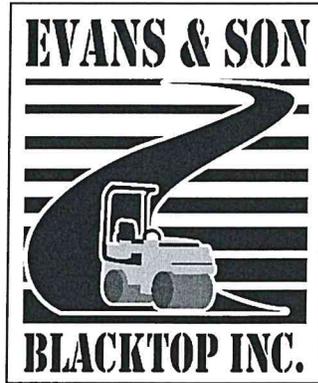
See ATTACHED

Municipality: _____
Address: _____
City, State, Zip Code: _____

Contact Person/Telephone Number: _____
Dates of Service/ Award Amount: _____

Agency: _____
Address: _____
City, State, Zip Code: _____
Contact Person/ Telephone Number: _____
Dates of Service/ Award Amount: _____

Agency: _____
Address: _____
City, State, Zip Code: _____
Contact Person/ Telephone Number: _____
Dates of Service/ Award Amount: _____



| | |
|---|----------------------|
| Fox River Regional Bike Path Batavia Park District 327 W Wilson St. Batavia, IL | 2017 \$40,847.00 |
| Brickyards Basketball Deerfield Park District 375 Elm Street, Deerfield, IL | 2017 \$79,992.00 |
| Various Park Locations Fox Valley Park District Aurora, IL | 2017 \$201,708.00 |
| Elmhurst 2017 Paving Project Elmhurst Park District Elmhurst, IL | 2017 \$229,190.24 |
| Various Pathway Work Forest View Park District Forest View, IL | 2017 \$87,205.00 |
| Camera Park & Gladstone Path Village of Glendale Heights Glendale Heights, IL | 2017 \$144,879.20 |
| Grealish Park Salt Creek Rural Park District Palatine, IL | 2017 \$88,180.00 |
| Milestone Park Tennis Sandwich Park District Sandwich, IL | 2017 \$83,204.60 |
| Schaumburg Paving Projects Schaumburg Park District Schaumburg, IL | 2017 \$117,505.00 |

| | |
|--|----------------------|
| Twin City Park Foss Park District North Chicago, IL | 2017 \$103,500.00 |
| Trumbull & Gouin Parks Veterans Park District Northlake, IL | 2017 \$202,144.93 |
| Tennis Courts Streator High School Streator, IL | 2018 \$231,000 |
| Tennis Courts and Parking Lot Lincoln Way East High School Frankfort, IL | 2018 \$1,083,000 |
| Tennis Courts Crystal Lake School District Crystal Lake, IL | 2018 \$1,256,764 |
| Fabyan Parking Lot Kane County Forest Preserve Batavia, IL | 2018 \$47,868 |
| Pathway Oswegoland Park District Oswego, IL | 2018 \$58,000 |
| Knolls Park Pathway York Center Park District Lombard, IL | 2018 \$151,000 |
| Salt Creek Rural Park District Twin Lakes Park Pathway | 2018 \$41,000 |
| Fox Valley Park District Copley Park Pathway / Basketball Court | 2018 \$22,000 |
| Village of Lake in the Hills Leroy Guy Park / Sunset Park Tennis Courts / Basketball Court | 2018 \$155,500 |

| | |
|---|------|
| Palos Heights Park District \$2370,000 Tennis Courts | 2018 |
| Lake Bluff Park District \$44,000 Pathway | 2018 |
| Lemont Park District Mayfair Park- \$74,000 Pathway / Parking Lot | 2018 |
| St Charles Park District Sportsplex- \$221,000 Parking Lot | 2018 |
| Wauconda Park District \$27,000 Pathway / Parking Lot | 2018 |
| Minooka School District \$382,000 Tennis Courts | 2018 |
| White Eagle HOA \$149,000 Tennis Courts | 2018 |
| Valley Lo Club \$71,000 Roadway | 2018 |
| Schaumburg Park District \$19,000 Parking Lot | 2018 |

Whytegate Park Tennis Court Bid Tabulation

Companies:

Evan's & Son Asphalt

| | | |
|-----------------|----|------------|
| BASE BID SUM | \$ | 90,000.00 |
| ALLOWANCE SUM | \$ | 15,000.00 |
| TOTAL LUMP SUM | \$ | 105,000.00 |
| | | |
| ALTERNATE BID 1 | \$ | 51,000.00 |
| ALTERNATE BID 2 | \$ | 100,000.00 |