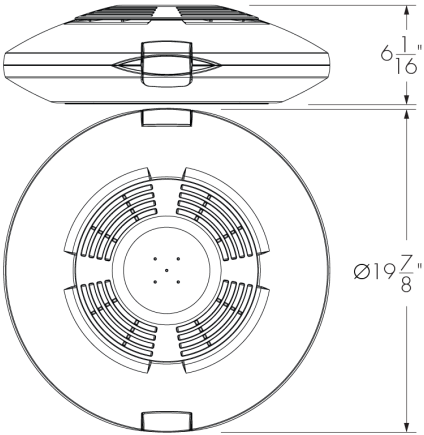


Project Name

Qty

Type

Catalog / Part Number



| | | | |
|---|--|--|--|
| <div>Distributions</div> <div><div><div>Type II</div><div>Type III</div><div>Type IV</div><div>Type V Square</div></div><div><div>Type II Backlight shield</div><div>Type III Backlight shield</div><div>Type IV Backlight shield</div><div>Type V Softsite</div></div></div> | | <div>Description</div> <div>Energy efficient and designed to limit up-light, the Pure100 is a versatile solution for a range of urban lighting applications, creating unique outdoor environments, while also protecting the night sky.</div> | |
| <div>Colors and Color Temperatures</div> <div><div>2200K</div><div>2700K</div><div>3000K</div><div>3500K</div><div>4000K</div><div>5700K</div></div> | | <div>Features</div> <div><div>Color and Color Temperature</div><div>2200K, 2700K, 3000K, 3500K, 4000K, 5700K</div></div> <div><div>Distributions</div><div>Type II, Type III or Type IV (with or without backlight shield), Type 5 square and Type V Softsite</div></div> <div><div>Options</div><div>Corrosion-resistant Coating for Hostile Environments, Surge Protector, 5-Pin Receptacle with or without shorting cap, 7-Pin Receptacle with or without shorting cap</div></div> <div><div>Warranty</div><div>5-year limited warranty</div></div> | |
| <div>Control</div> <div>ON/OFF 0-10V</div> | | <div>Performance</div> <div><div>Output (Nominal Lumens)</div><div>Minimum 3000lm / Maximum 20000lm</div></div> <div><div>Color Rendering</div><div>3 SDCM for CRI 70+ and 2 SDCM for CRI 80+</div></div> <div><div>Lumen Maintenance</div><div>TM-21 L70 527,000 hrs (projected, Ta 77 °F), 36,000 hrs (reported, Ta 77 °F)</div></div> <div><div>DarkSky</div><div>DarkSky Approved (2200K, 2700K and 3000K color temperatures, BUG rating of U0)</div></div> | |
| <div>Rating</div> <div>IP66 (optical chamber)</div> | | <div>Physical</div> <div><div>Housing Material</div><div>Die cast low copper 360 aluminum alloy</div></div> <div><div>Lens Material</div><div>Optical tempered clear glass (Clearsite lens), Optical tempered opal glass (Softsite lens)</div></div> <div><div>Weight</div><div>30 lbs luminaire head only</div></div> <div><div>EPA</div><div>0.43 ft² luminaire head only</div></div> | |
| <div>Certifications</div> <div><div><div>UL</div><div>5 YEARS</div></div></div> | | | |

| | |
|----------------|--|
| Surface Finish | Super durable resistant exterior polyester powder coating meets AAMA 2604-98 requirements (5-years Florida exposure). A corrosion resistant finish (CRC) pre-finish is available to meet ASTM B-117 & ASTM D-1654 (salt spray resistance) and ASTM D-2247 requirements (humidity resistance). |
|----------------|--|

Electrical and Control

| | |
|---------|--|
| Voltage | 120 volts, 208 volts, 240 volts, 277 volts, 347 volts, 480 volts |
| Control | On/Off Control, 0-10V Dimming |

Environmental

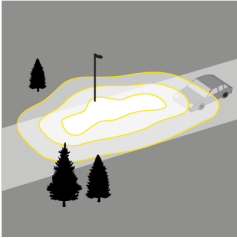
| | |
|---------------------------|---|
| Storage Temperature | -40 °F to 122 °F (device must reach start-up temperature value before operating) |
| Start-up Temperature | -40 °F to 104 °F (-13 °F to 104 °F for 120V combined with M80, L170, L30 Softsite, L50 Softsite or L70 Softsite output) |
| Operating Temperature | -40 °F to 104 °F (-13 °F to 104 °F for 120V combined with M80, L170, L30 Softsite, L50 Softsite or L70 Softsite output) |
| Ingress Protection Rating | IP66 (optical chamber) |
| Environment | Dry/damp/wet location |

Decorative arms (Order Separately, Consult Related Specification Sheets for Details)


| | |
|----------------------------|--|
| Compatible decorative arms | Side-Mount Decorative Arm: S12-Side Internal (2 3/8 in Tenon) Luminaire Mounting Option with PU2, PU4, PU5, PU8, CS12 and CS13 Arm Style. |
|----------------------------|--|

Photometric Information

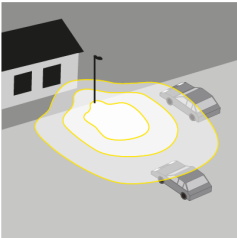
Type II, 4000K, CRI 70+

|  | Nominal output [lm] | Typical delivered output [lm] | Efficiency (lm/W) | BUG Rating | | | Typical maximum power 120/277V (W) |
|--|------------------------|----------------------------------|----------------------|------------|----|----|---------------------------------------|
| | | | | B | U | G | |
| S40 | | 3,744 | 121 | 1 | 0 | 1 | 31 |
| S60 | | 5,803 | 106 | 1 | 0 | 1 | 55 |
| M80 | | 7,675 | 120 | 2 | 0 | 2 | 64 |
| M110 | | 10,483 | 114 | 2 | 0 | 2 | 92 |
| M150 | | 13,852 | 105 | 3 | 0 | 3 | 132 |
| L170 | | 15,537 | 106 | 3 | 0 | 3 | 146 |
| L200 | | 18,664* | 101 | 3* | 0* | 3* | 185 |

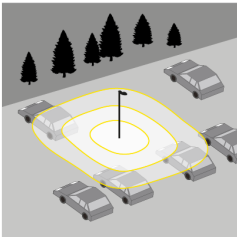
Type III, 4000K, CRI 70+

|  | Nominal output [lm] | Typical delivered output [lm] | Efficiency (lm/W) | BUG Rating | | | Typical maximum power 120/277V (W) |
|--|------------------------|----------------------------------|----------------------|------------|----|----|---------------------------------------|
| | | | | B | U | G | |
| S40 | | 4,229 | 136 | 1 | 0 | 1 | 31 |
| S60 | | 6,555 | 119 | 1 | 0 | 2 | 55 |
| M80 | | 8,669 | 136 | 2 | 0 | 2 | 64 |
| M110 | | 11,841 | 129 | 2 | 0 | 2 | 92 |
| M150 | | 15,647 | 119 | 3 | 0 | 3 | 132 |
| L170 | | 17,550 | 120 | 3 | 0 | 3 | 146 |
| L200 | | 21,078* | 114 | 3* | 0* | 3* | 185 |

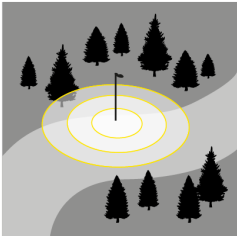
Type IV, 4000K, CRI 70+

|  | Nominal output [lm] | Typical delivered output [lm] | Efficiency (lm/W) | BUG Rating | | | Typical maximum power 120/277V (W) |
|---|------------------------|----------------------------------|----------------------|------------|----|----|---------------------------------------|
| | | | | B | U | G | |
| S40 | | 3,813 | 123 | 1 | 0 | 1 | 31 |
| S60 | | 5,910 | 108 | 2 | 0 | 2 | 55 |
| M80 | | 7,816 | 122 | 2 | 0 | 2 | 64 |
| M110 | | 10,676 | 116 | 3 | 0 | 3 | 92 |
| M150 | | 14,108 | 107 | 3 | 0 | 3 | 132 |
| L170 | | 15,824 | 108 | 3 | 0 | 3 | 146 |
| L200 | | 19,002* | 103 | 3* | 0* | 3* | 185 |

Type V square, 4000K, CRI 70+

|  | Nominal output [lm] | Typical delivered* output [lm] | Efficiency (lm/W) | BUG Rating* | | | Typical maximum power 120/277V (W) |
|--|------------------------|-----------------------------------|----------------------|-------------|---|---|---------------------------------------|
| | | | | B | U | G | |
| S40 | | 3,972 | 128 | 2 | 0 | 1 | 31 |
| S60 | | 6,230 | 113 | 3 | 0 | 1 | 55 |
| M80 | | 8,360 | 131 | 3 | 0 | 2 | 64 |
| M110 | | 11,474 | 125 | 4 | 0 | 2 | 92 |
| M150 | | 15,148 | 115 | 4 | 0 | 3 | 132 |
| L170 | | 16,829 | 115 | 4 | 0 | 3 | 146 |
| L200 | | 20,366 | 110 | 4 | 0 | 3 | 185 |

Type V Softsite, 4000K, CRI 70+

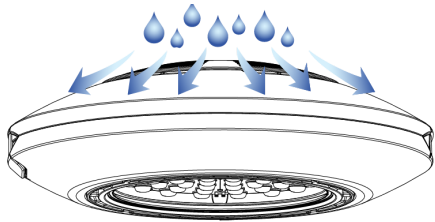
|  | Nominal output [lm] | Typical delivered* output [lm] | Efficiency (lm/W) | BUG Rating* | | | Typical maximum power 120/277V (W) |
|--|------------------------|-----------------------------------|----------------------|-------------|---|---|---------------------------------------|
| | | | | B | U | G | |
| L30 | | 2,876 | 63 | 1 | 0 | 1 | 46 |
| L50 | | 5,550 | 57 | 2 | 0 | 1 | 97 |
| L70 | | 7,616 | 52 | 2 | 0 | 1 | 146 |

*Photometric performance is measured in compliance with IESNA LM-79-08. Due to rapid and continuous advance in LED technology, photometric information is subject to change without notice.

Lumencool™ Technology

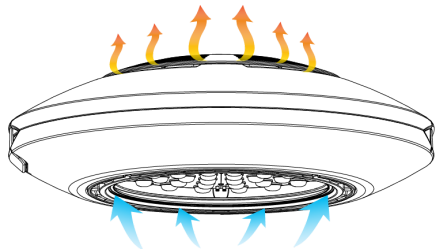
Lumencentro's innovative design uses Lumencool technology to regulate temperature and increase outputs. Lumencentro's allows air to flow between the driver and the LED board, maximising the surface area, increasing output and lifetime.

Water Management



Designed to run the rain off, keeping the interior bone dry, while simultaneously letting the heat out.

Heat Management

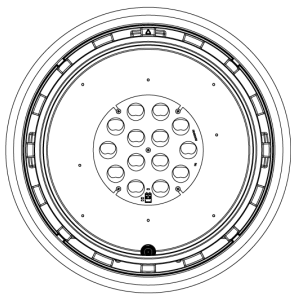


Lumencentro raises the bar on heat management to achieve higher lumen outputs, a longer life, and a better quality of light and efficiency.

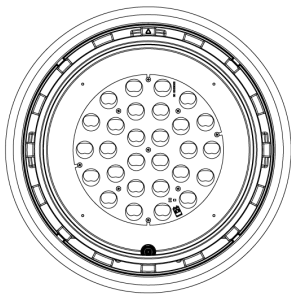
Optical System

LED board size

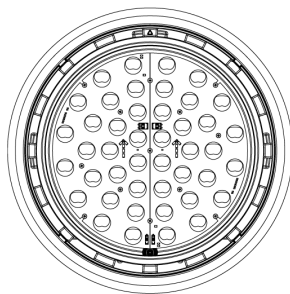
Small (4000lm to 6000lm)



Medium (8000lm to 15000lm)

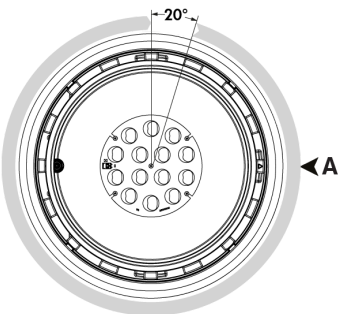


Large (17000lm to 20000lm)



Type V Softsite is available with large LED board only (3000lm to 7000lm).

Rotating Optical System



Increase flexibility and ease alignment with street side on-site with a rotating 20° increments Optical System.

- A - Street Dide
- B - LED Board
- C - (4X) 1/4-20 Bolt with 11/16 Flat Washers and Lock Washers
- D - (4X) Bracket

Backlight Shield*



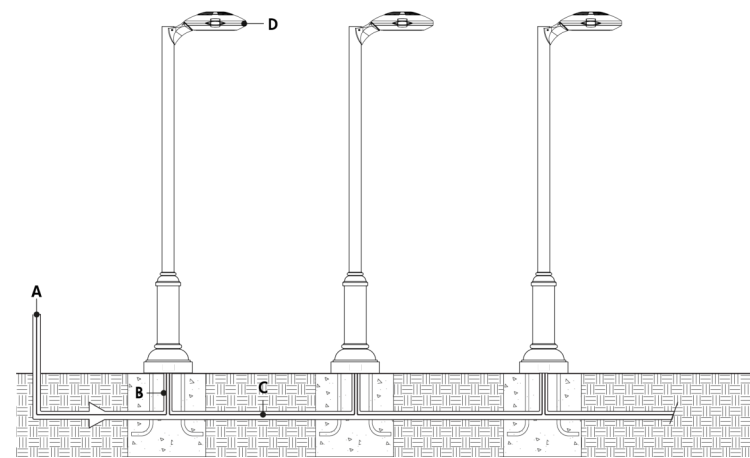
- *Small, medium and large LED boards size have the same full coverage backlight shield pieces.
- *Backlight sheild available with Type II, Type III and Type IV only.
- *Backlight shield is factory installed.

Typical Wiring Diagrams

Wiring Color Code

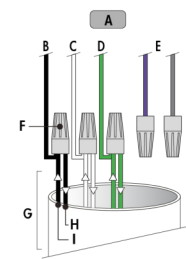
| Color | Black | White | Green | Purple | Gray |
|-------|-------|--------------|--------|---------|----------|
| Use | Line | Line/Neutral | Ground | 0 -10V+ | 0 -10V - |

On/Off Control (NO)



- A - Power input (120-480V, wiring by others)
- B - Conduit (by others)
- C - Power wiring (by others)
- D - Pure 100

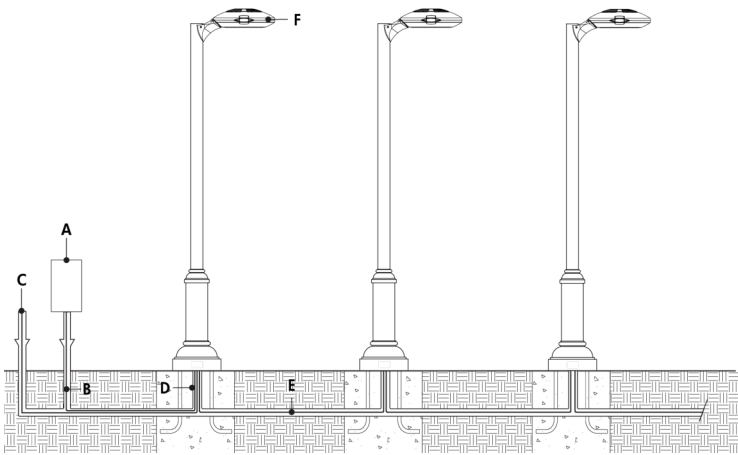
On/Off Control (NO) - Wiring Detail



- A - To fixture
- B - Line
- C - Line/Neutral
- D - Ground
- E - Not required
- F - Wire-nuts (by others)
- G - Conduit (by others)
- H - To next fixture
- I - Power input or from previous fixture

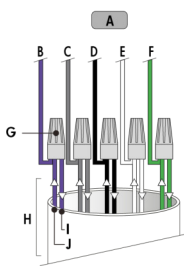
- Consult factory for specific applications and maximum fixture count/cable length recommendations.

0-10V Dimming (DIM)



- A - Dimmer (by others)
- B - Data wiring (by others)
- C - Power input (120-480V, wiring by others)
- D - Conduit (by others)
- E - Power and data wiring (by others)
- F - Pure 100

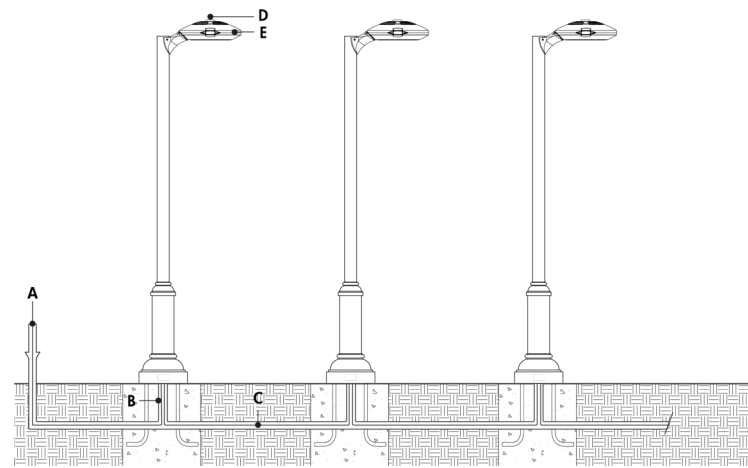
0-10V Dimming (DIM) - Wiring Detail



- A - To fixture
- B - 0-10V +
- C - 0-10V -
- D - Line
- E - Line/Neutral
- F - Ground
- G - Wire-nuts (by others)
- H - Conduit (by others)
- I - To next fixture
- J - Power input and from third party dimmer or from previous fixture

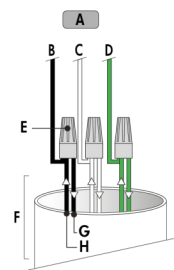
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- 0-10V mA ratings: passive dimmer (Current Sink): 3mA per fixture, active dimmer (Current Source): 0.5mA per fixture.
- 1% minimum dimming value.

5 Pins & 7Pins Receptacle Control (SPR5, SPR7)



- A - Power input (120-480V, wiring by others)
- B - Conduit (by others)
- C - Power wiring (by others)
- D - Photoelectric control
- E - Pure 100





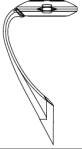

5 pins & 7pins Receptacle Control (SPR5, SPR7) - Wiring Detail



- A - To fixture
- B - Line
- C - Neutral
- D - Ground
- E - Wire-nuts (by others)
- F - Conduit (by others)
- G - To next fixture
- H - Power input or from previous fixture

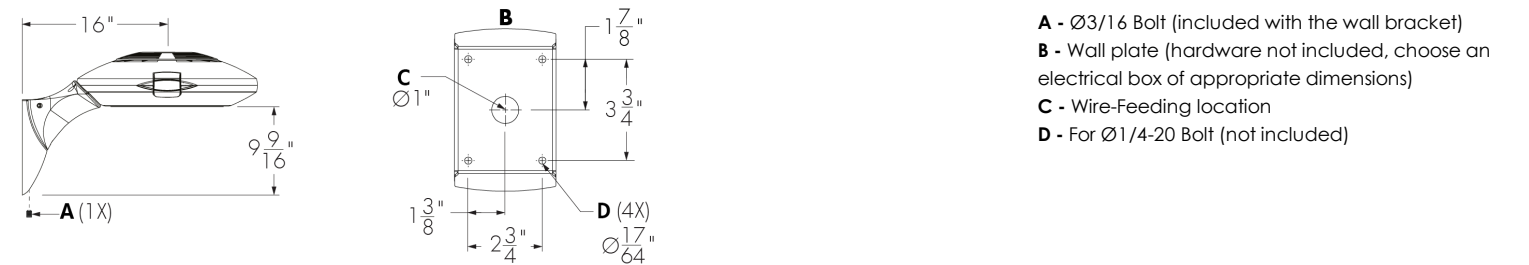
Mounting Options EPA

Values Include PUR100 Luminaire

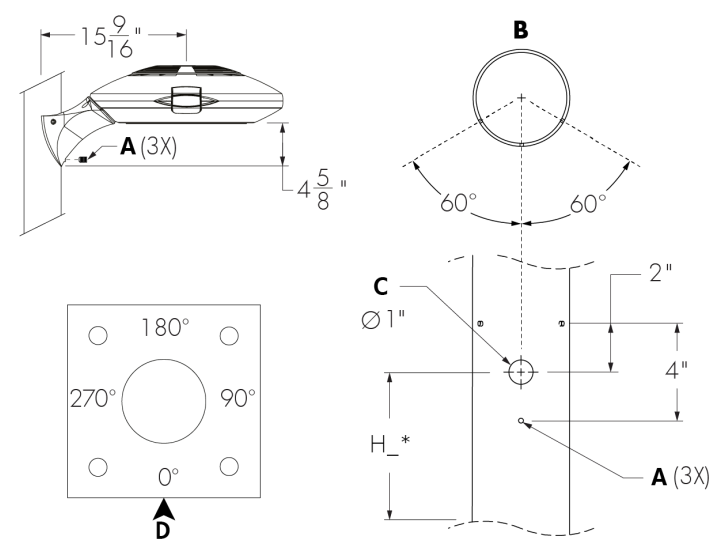
| | PU1-W1X | PU1-S1X/ PU1-S1X-5 | PU1-S1E/ PU1-S1E-5 | PU1-S2E/ PU1-S2E-5 | PU3-S1E | SI2 - Side internal (2 3/8 in tenon) |
|--------------|---|---|---|--|---|---|
| |  |  |  |  |  |  |
| Weight [lbs] | 36 | 33.5 | 37.3 | 71 | 43 | Consult Side-Mount Arm SI2-Side Internal Luminaire Mounting Option specification sheets for details. |
| EPA [sq.ft.] | 1.01 | 0.86 | 1.16 | 1.46 | 1.35 | |

Mounting Option Dimensions

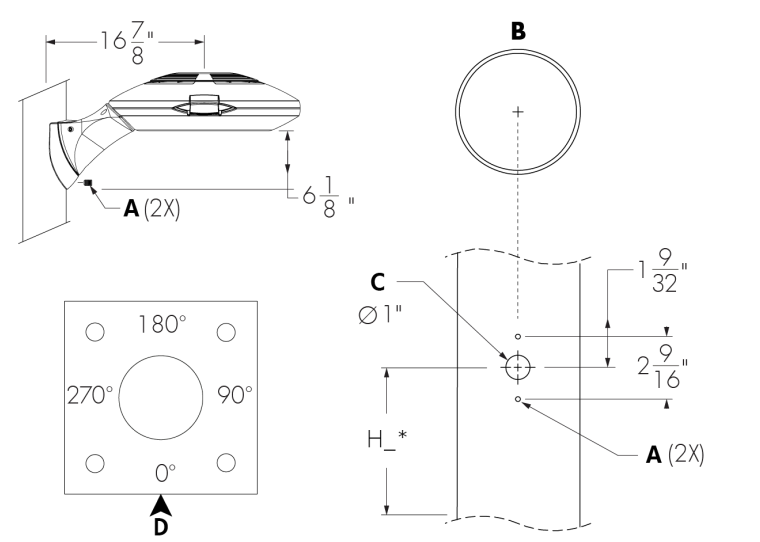
PU1-W1X - Wall Mounted



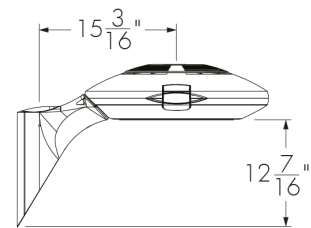
PU1-S1X - Variable Height Mounting For 4 in Pole



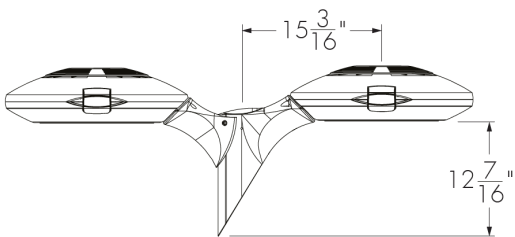
PU1-S1X-5 - Variable Height Mounting For 5 in Pole



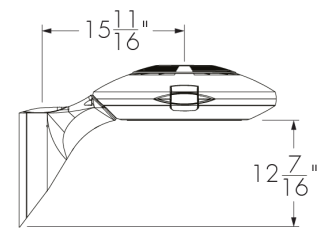
PU1-S1E - Single Pole-Top Mounting For 4 in Pole



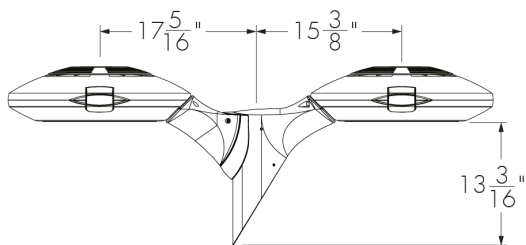
PU1-S2E - Double Pole-Top Mounting For 4 in Pole



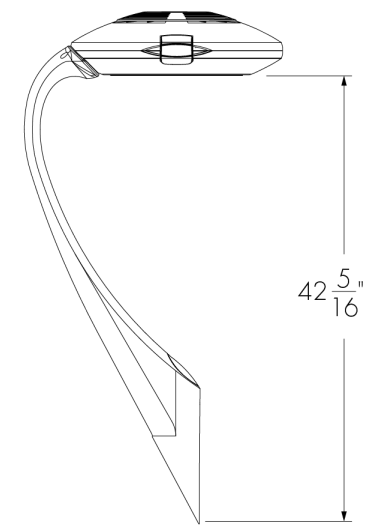
PU1-S1E-5 - Single Pole-Top Mounting For 5 in Pole



PU1-S2E-5 - Double Pole-Top Mounting For 5 in Pole

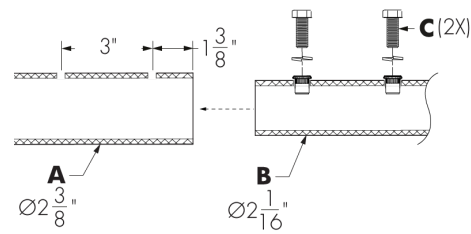


PU3-S1E - Vertical Curve Pole-Top Mounting For 4 in Pole



Luminaire Mounting Option Details -
Luminaire/Arm style Junction

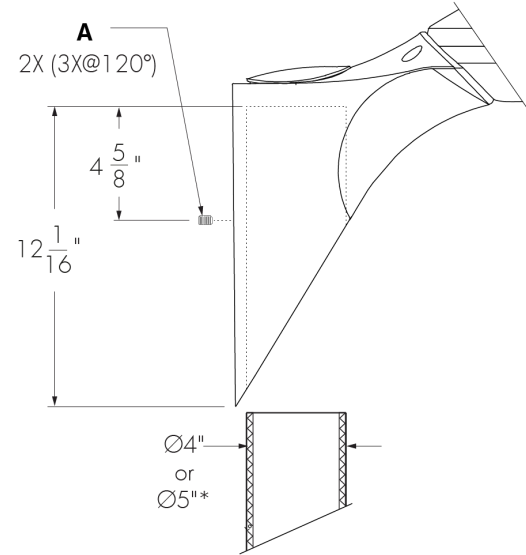
SI2 - Side Internal (2 3/8 in Tenon)



- A - Decorative Arm
- B - Luminaire Adaptor
- C - 1/4-20 Bolts and Lock Washers

Pole Top Options Details -
Arm Style/Decorative Pole Junction

PU1 And PU3 Mounting Option Details

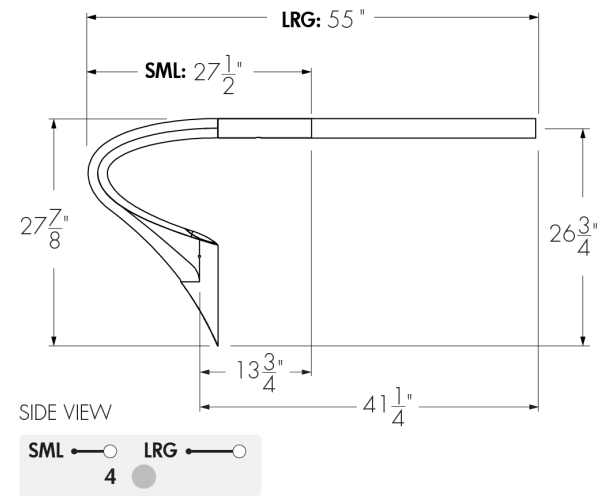


- A - Ø5/16 in Set Screw (included with Pole)

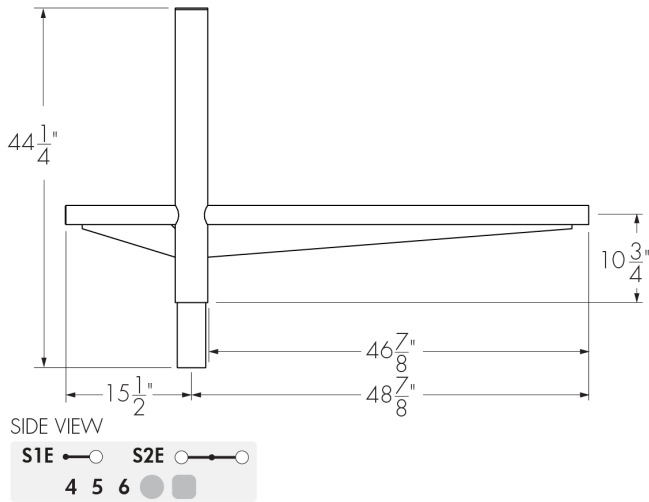
*For PU1 Arm only.

SI2 - Side Internal (2 3/8 in Tenon) Arm Style Dimensions

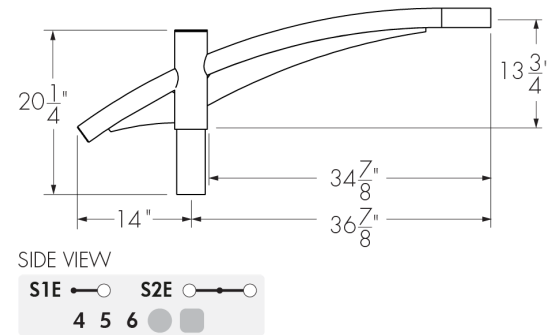
PU2 Arm Style



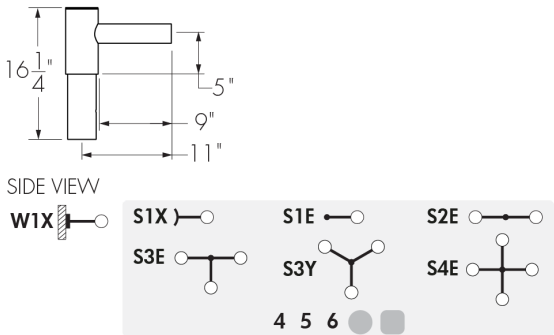
PU4 Arm Style



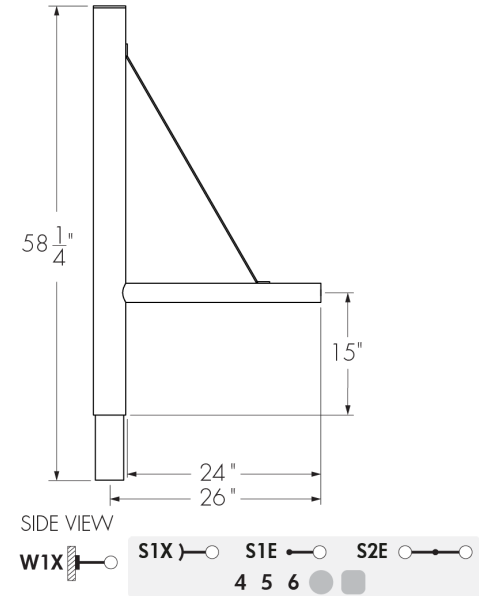
PU5 Arm Style



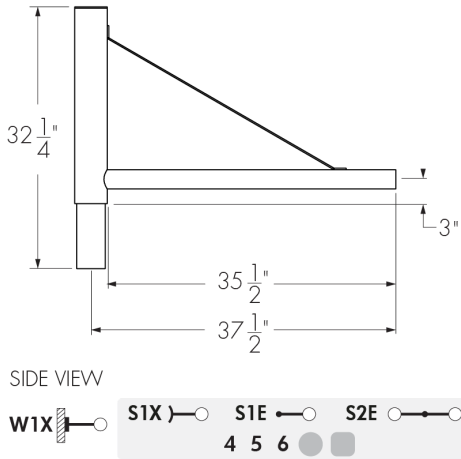
PU8 Arm Style



CS12 Arm Style



CS13 Arm Style



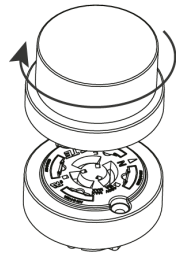
- Mid-pole/mid-luminaire distance is bases on 4 in pole (add 1/2 in for 5 in pole and 1 in for 6 in pole).

Options

SPR5 and SPR7 - 5-Pin and 7-Pin Receptacles



SPR5 SC and SPR7 SC - 5-Pin and 7-Pin Receptacles with Shorting Cap



- Dimming receptacle meets ANSI C136.41 Standard

How to Order

| Housing ⁽¹⁾ | Voltage | Lens | Output (Nominal Lumens) | Color and Color Temperature ⁽⁷⁾ | Color Rendering | Distributions | Finish | Control | Option | Mounting Options |
|------------------------|------------------|--|---------------------------------------|--|-----------------------------------|-------------------------------------|---|--------------------------------------|---|---|
| PUR100 Pure 100 | 120 120 Volts | CSL Clearsite Lens ^{(2) (3)} | S40 4000lm ⁽⁶⁾ | 22K 2200K ⁽⁸⁾ | CRI 70 CRI 70+ ⁽⁹⁾ | 2 Type II | BK Black Sandtex® | DIM 0-10V Dimming ⁽¹⁴⁾ | CRC Corrosion-resistant coating ^{(15) (16)} | PUI-W1X Wall mount |
| | 208 208 volts | SSL Softsite lens ^{(4) (5)} | S60 6000lm | 27K 2700K ⁽⁸⁾ | CRI 80 CRI 80+ ⁽¹⁰⁾ | 2BLS Type II Backlight Shield | BRZ Bronze Sandtex® | | SP Surge Protector | PUI-S1X PUI-S1X |
| | 240 240 volts | | M80 8000lm | 30K 3000K | | 3 Type III | SI Silver Sandtex® | | SPR5 5-Pin Receptacle ⁽¹⁷⁾ | PUI-S1X-5 Variable height mounting for 5 in pole |
| | 277 277 Volts | | M110 11 000lm | 35K 3500K | | 3BLS Type III Backlight Shield | BKTX Textured Black | | SPR5 SC 5-Pin Receptacle with Shorting Cap ⁽¹⁷⁾ | PUI-S1E Single pole-top mounting for 4 in pole |
| | 347 347 volts | | M150 15 000lm | 40K 4000K | | 4 Type IV | BRZTX Textured Bronze Non-Metallic | | SPR7 7-Pin Receptacle ⁽¹⁷⁾ | PUI-S1E-5 Single pole-top mounting for 5 in pole |
| | 480 480 volts | | L170 17 000lm | 57K 5700K | | 4BLS Type IV Backlight Shield | GRATX Textured Medium Gray | | SPR7 SC 7-Pin Receptacle with Shorting Cap ⁽¹⁷⁾ | PUI-S2E Double pole-top mounting for 4 in pole |
| | | | L200 20 000lm | | | 5S Type V Square | GRNTX Textured Green | | | PUI-S2E-5 Double pole-top mounting for 5 in pole |
| | | | L30 3000lm Softsite ⁽⁵⁾ | | | 5 Type V Softsite ⁽⁴⁾ | WHTX Textured White | | | PUI-S1E Vertical curve pole-top mounting for 4 in pole ⁽¹⁸⁾ |
| | | | L50 5000lm Softsite ⁽⁵⁾ | | | | CC Custom Color & Finish ^{(11) (12) (13)} | | | SI2 Side Internal (2 3/8 in Tenon) |
| | | | L70 7000lm Softsite ⁽⁵⁾ | | | | | | | |
| | | | | | | | | | | |

Notes:

1. Consult Related Products section on webpage for a selection of compatible decorative arms, decorative poles (sold separately).

2. Available with S40, S60, M80, M110, M150, L170 and L200 output options only.

3. Available with types 2, 2BLS, 3, 3BLS, 4, 4BLS and 5S distribution only.

4. Available with L30, L50 and L70 output options only.

5. Available with type 5 distribution only.

6. Available up to 277V.

7. Consult factory for more color temperature options.

8. Available for CRI 80 only.

9. Binning within a 3-step MacAdam ellipse, with the exception of 5700K.

10. Binning within a 2-step MacAdam ellipse, with the exception of 2200K and 5700K.
11. Specify RAL number followed by "TX" for textured finish (ex: RAL9007TX) or STX for Sandtex finish (ex: RAL9007STX). Textured or Sandtex finishes are recommended for the durability of all products. If a finish is not specified with the RAL number (ex: RAL9007), a glossy finish will be provided. Please consult factory for other RAL textures and glasses, or to match alternate color charts. Final color matching results may vary.

12. Setup charges apply for RAL colors. Consult factory for details.

13. Longer lead times can be expected for custom RAL color finishes.

14. DIM control can be used as NO (On/Off control) if no data is required.

15. Use only when exposed to salt spray. This option is not required for normal outdoor exposure.

16. Setup charges apply. Consult factory for details.

17. Only one receptacle can be specified per fixture.

18. Consult factory for availability.