

PZ22-12000041

12/20/2023

Project

Catalog #

Type

Prepared By

Notes

Date



## Invue

### ClearCurve Pedestrian

Pedestrian Luminaire

#### Product Features



#### Interactive Menu

- Ordering Information [page 2](#)
- Product Specifications [page 3](#)
- Energy and Performance Data [page 3](#)
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#### Product Certifications



#### Quick Facts

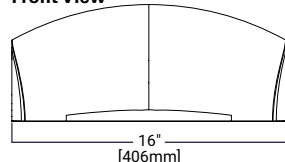
- Available with Visual Comfort or Discrete optics configurations
- Lumen packages range from 1,600 up to 12,000 lumens (18W - 110W)
- Efficacy up to 149 lumens per watt
- Standard quick mount arm with universal drill pattern

#### Connected Systems

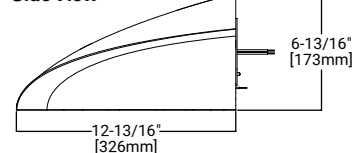
- WaveLinx

#### Dimensional Details

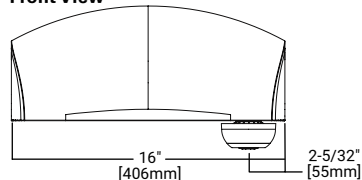
Front View



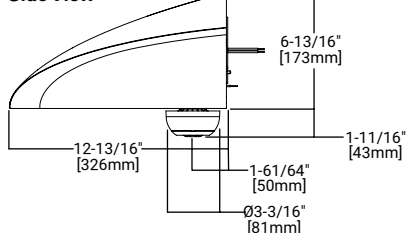
Side View



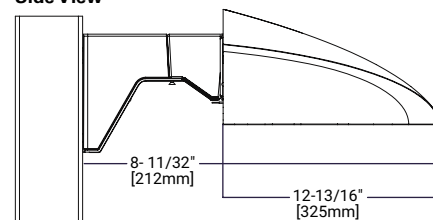
Front View



Side View



Side View



#### NOTES:

1. Visit <https://www.designlights.org/search/> to confirm qualification. Not all product variations are UL qualified.

Ordering Information

PZ22-12000041-CCP-VA4-740-U-T4W-GM

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| Product Family <sup>1</sup>   | Light Engine  |   | Color Temperature   | Voltage  | Distribution  | Finish   |
|---|---|---|---|--|---|--|
|   | Visual Comfort Configurations   |   |   |  |   |  |
| CCP=ClearCurve Pedestrian<br>BAA-CCP=ClearCurve Pedestrian Buy American Act Compliant <sup>28</sup><br>TAA-CCP=ClearCurve Pedestrian Trade Agreements Act Compliant <sup>28</sup> | VA1=Wavestream, 2,800 lumens<br>VA2=Wavestream, 3,800 lumens<br>VA3=Wavestream, 4,500 lumens<br>VA4=Wavestream, 6,000 lumens<br>VA5=Wavestream, 8,000 lumens <sup>2</sup><br>VA6=Wavestream, 10,000 lumens <sup>2</sup> |   | 727=70CRI, 2700K<br>730=70CRI, 3000K<br>735=70CRI, 3500K<br>740=70CRI, 4000K<br>750=70CRI, 5000K<br>760=70CRI, 6000K<br>827=80CRI, 2700K<br>830=80CRI, 3000K<br>835=80CRI, 3500K<br>840=80CRI, 4000K<br>850=80CRI, 5000K<br>AMB=Amber 590nm <sup>25</sup> | U=Universal, 120-277V<br>1=120V<br>2=208V<br>3=240V<br>4=277V<br>8=480V <sup>4</sup><br>9=347V | T1=Type I <sup>5</sup><br>T2=Type II<br>T3=Type III<br>T4FT=Type IV Forward Throw<br>T4W=Type IV Wide<br>SL2=Type II w/Spill Control <sup>5</sup><br>SL3=Type III w/Spill Control <sup>5</sup><br>SL4=Type IV w/Spill Control <sup>5</sup><br>SLL=90° Spill Light Eliminator Left <sup>5</sup><br>SLR=90° Spill Light Eliminator Right <sup>5</sup> | AP=Grey<br>BZ=Bronze<br>BK=Black<br>DP=Dark Platinum<br>GM=Graphite Metallic<br>WH=White |
|   | Discrete Configurations   | Drive Current   |   |  |   |  |
|   | SA1=1 Light Square<br>SA2=2 Light Squares   | A=350mA<br>B=450mA<br>C=615mA<br>D=800mA<br>E=1050mA<br>F=1200mA <sup>3</sup> |   |  |   |  |

| Options (Add as Suffix)   | Accessories (Order Separately)   |
|---|--|
| F = Single Fuse (120V, 277V or 347V. Must Specify Voltage)<br>FF = Double Fuse (208, 240, or 480V. Must Specify Voltage)<br>10MSP = 10kV MOV Surge Protective Device<br>20MSP = 20kV MOV Surge Protective Device<br>20K = 20kV UL 1449 Fused Surge Protective Device<br>2L = Two Circuits <sup>5,6</sup><br>L90 = Optics Rotated 90° Left <sup>5</sup><br>R90 = Optics Rotated 90° Right <sup>5</sup><br>HSS = House Side Shield (Factory Installed) <sup>5,9</sup><br>HA = 50°C High Ambient Temperature <sup>10</sup><br>TR = Tamper Resistant Hardware<br>CC = Coastal Construction <sup>11</sup><br>DALI = DALI Driver<br>BPC = Button Type Photocontrol <sup>12</sup><br>PR = NEMA 3-PIN Twistlock Photocontrol Receptacle <sup>14</sup><br>PR7 = NEMA 7-PIN Twistlock Photocontrol Receptacle <sup>14</sup><br>AHD145 = After Hours Dim, 5 Hours <sup>15</sup><br>AHD245 = After Hours Dim, 6 Hours <sup>15</sup><br>AHD255 = After Hours Dim, 7 Hours <sup>15</sup><br>AHD355 = After Hours Dim, 8 Hours <sup>15</sup><br>MS/DIM-L08 = Motion Sensor for Dimming Operation, Up to 8' Mounting Height <sup>12,16</sup><br>MS/DIM-L20 = Motion Sensor for Dimming Operation, 9' - 20' Mounting Height <sup>12,16</sup><br>SPB1 = Motion Sensor for Dimming Operation, BLE Interface, Up to 8' Mounting Height <sup>12,17</sup><br>SPB2 = Motion Sensor for Dimming Operation, BLE Interface, 8' - 20' Mounting Height <sup>12,17</sup><br>ZD = DALI-enabled 4-PIN Zhaga Receptacle <sup>12,18,19</sup><br>ZW = Wavelinx-enabled 4-PIN Zhaga Receptacle <sup>12,18,19</sup><br>SWPD4XX = Wavelinx Wireless Sensor, 7' - 15' Mounting Height <sup>12,18,19,20</sup> ; replace XX with sensor color (WH, BX or BK)<br>SWPD5XX = Wavelinx Wireless Sensor, 15' - 40' Mounting Height <sup>12,18,19,20,21</sup> ; replace XX with sensor color (WH, BX or BK)<br>FADC = Field Adjustable Dimming Control <sup>26</sup><br>X = No surge protector<br><br>EMERGENCY OPTIONS (choose only one)<br>EBP = Emergency Battery Pack (Ambient Temp, 0° to 40°C) <sup>7,8,13,27</sup><br>CBP = Cold Weather Emergency Battery Pack (Ambient Temp, -20° to 40°C) <sup>7,8,13,27</sup><br>CBP-CEC = Cold Weather Emergency Battery Pack, CEC Compliant (Ambient Temp, -20° to 40°C) <sup>7,8,13,27</sup><br>ITS = Internal Transfer Switch, UL Recognized Component <sup>7,13</sup> | OA/RA1013 = Photocontrol Shorting Cap<br>OA/RA1014 = NEMA Photocontrol - 120V<br>OA/RA1016 = NEMA Photocontrol - Multi-Tap 105-285V<br>OA/RA1201 = NEMA Photocontrol - 347V<br>OA/RA1027 = NEMA Photocontrol - 480V<br>WRGX = Wireguard for qty "X" Lightsquares <sup>5</sup><br>BB/CCXX = Back Box with 3/4 NPT (replace XX with color selection)<br>BB-BPC/CCXX = Back Box with 3/4 NPT and button PC (replace XX with color selection) <sup>12,26</sup><br>LS/HSS = House Side Shield <sup>5,22</sup><br>FSIR-100 = Wireless Configuration Tool for Motion Sensor <sup>23</sup><br>SWPD4-XX = Wavelinx Wireless Sensor, 7' - 15' Mounting Height <sup>12,18,19,21</sup> ; replace XX with sensor color (WH, BX or BK)<br>SWPD5-XX = Wavelinx Wireless Sensor, 15' - 40' Mounting Height <sup>12,18,19,21</sup> ; replace XX with sensor color (WH, BX or BK)<br>WOLC-7P-10A = WaveLinX Outdoor Control Module (7-PIN) <sup>24</sup><br>BB-ZW/CCXX = Back Box with 3/4" NPT and Wavelinx enabled 4-PIN Twistlock Receptacle (replace XX with color selection) <sup>26</sup><br>BB-FADC/CCXX = Field Adjustable Dimming Control (replace XX with color selection) <sup>26</sup><br>POLE-MT-kit-XX = Pole Mount Arm (replace XX with color selection to match fixture) |

NOTES:

- DesignLights Consortium® Qualified. Refer to [www.designlights.org](http://www.designlights.org) Qualified Products List under Family Models for details.
- Only available with Type IV Wide (T4W) distribution.
- Not available with 2 Light Squares (SA2x).
- Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
- Not available with Visual Comfort Light Engines (VAX)
- Not available with 1 Light Square (SA1x).
- Not available with other emergency options (EBP, CBP, CBP-CEC, or ITS).
- 120V or 277V only. Must specify voltage.
- Light Square trim plate will be painted Black when HSS option is selected.
- Not available with VA6 or SA2E Light Engine. Not available with emergency options (EBP, CBP, or CBP-CEC). Not available with AMB (amber leds)
- Light Square configuration only. The finish is tested per ASTM B117. Scribe rating of 7 per ASTM D1654.
- For voltages above 277V, must specify voltage. Cannot select voltage ranges H or C.
- Not available with VA6 or SA2E Light Engines.
- If 347-480V (H) or 277-480V (C) voltage is specified, use a photocontrol that matches the input voltage used (either 277V, 347V, or 480V).
- Requires the use of photocontrol (BPC). See After Hours Dim supplemental guide for additional information.
- Utilizes the Wattstopper sensor FSP-211. Sensor color white unless specified otherwise via PDR.
- Utilizes the Wattstopper sensor FSP-3x1. Sensor color determined by product finish. See reference table.
- Sensor passive infrared (PIR) may be overly sensitive when operating below -20°C (-4°F).
- In order for the device to be field-configurable, requires WAC Gateway components WAC-PoE and WPOE-120 in appropriate quantities. Only compatible with WaveLinX system and software and requires system components to be installed for operation. See website for more Wavelinx application information.
- Not available with Back Box.
- Requires 4-PIN twistlock receptacle option (ZD or ZW) option.
- Must order one per Light Square when ordering as a field-installable accessory (1 or 2).
- This tool enables adjustment to Motion Sensor (MS) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative for more information.
- Requires 7-PIN NEMA twistlock photocontrol receptacle (PR7) option. The WOLC-7 cannot be used in conjunction with other controls systems (MS, ZD, or ZW). Only for use at 120-347V.
- Use for wildlife and observatory (Narrow-band 590nm +/- 5nm). Choose drive current B for SA1 or SA2. Choose lumen package VA2 for T2, T3, and T4FT, choose VA5 for T4W. Not available with 2L option.
- Not available with DALI, PR7, MS/DIM, SPB1, SPB2, ZD, ZW, SWPD (any sensors or network dimming control devices).
- Battery systems are UL924 Listed
- Product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC PREFERENCE for more information. Components shipped separately may be separately analyzed under domestic preference requirements.

## Product Specifications

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**Construction**

Low copper content, die-cast aluminum housing provides a clean smooth aesthetic

- Patent pending housing design
- IP66 rated
- 3G vibration rated

**Optics**

- Visual Comfort WaveStream™ technology or high-efficiency injection-molded AccuLED
- Comprehensive range of Color Temperature choices
- Visual Comfort - Four optical distributions utilizing patented visual comfort WaveStream™ technology
- Visual Comfort - 6 lumen packages, ranging from 2,800 to 10,000 lumens
- AccuLED – 18 distributions including HSS shielding
- AccuLED – 11 lumen packages, ranging from 1,600 to 12,000 lumens
- AccuLED - Patented, high-efficiency injection molded AccuLED Optics technology

**Electrical**

- Approx. 90% lumen maintenance at 60,000 hours
- 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation
- 10kV surge module standard
- 10MSP, 20MSP, 20kv and X are optional
- Standard with 0-10V dimming
- Suitable for operation in -40°C to 40°C ambient environment
- Optional 50°C high ambient (HA) configuration available

**Mounting**

- Versatile, patented standard quick mount arm accommodates drill patterns ranging from 1-1/2" to 4-7/8" (Type M drilling recommended for new installations)

**Finish**

- Finishes include white, black, bronze, gray, dark platinum and graphite metallic
- RAL and custom color matches available
- Super housing durable TGIC polyester powder coat paint, 2.5 mil nominal thickness
- Coastal Construction (CC) option available, providing 5,000 hour salt spray rating per ASTM B117, with a scribe rating of 9 per ASTM D1654

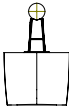
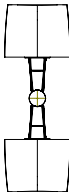
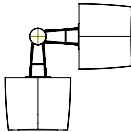
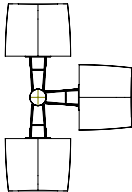
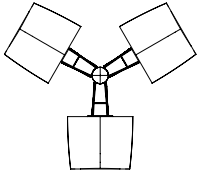
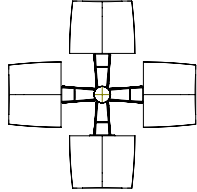
**Warranty**

- Five year warranty

## Approximate Fixture Weight

23.0 lbs

## Mounting Data

| Effective Projected Area (EPA - Sq. Ft.) |  |  |  |  |  |  |
|--|---|--|--|---|--|--|
| Configuration                            | Single  | 2 @ 180°   | 2 @ 90°  | 3 @ 90°   | 3 @ 120°   | 4 @ 90°  |
| EPA (Sq. Ft.)                            | 0.92  | 1.92   | 1.62   | 2.39  | 2.13   | 2.39   |

## Energy and Performance Data

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VA Performance

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[Supplemental Performance Guide](#)

| Lumen Package            | VA1   | VA2 | VA3   | VA4   | VA5 | VA6  |
|--------------------------|-------|-----|-------|-------|-----|------|
| Power Wattage (Watts)*   | 28.5W | 41W | 49W   | 58.6W | 78W | 106W |
| Input Current (mA) @120V | 240   | 340 | 406   | 493   | 676 | 933  |
| Input Current (mA) @277V | 105   | 148 | 175   | 221   | 285 | 388  |
| Power Wattage (Watts)*   | 31.5W | 44W | 53.5W | 65W   | 83W | 115W |
| Input Current (mA) @347V | 93    | 125 | 155   | 188   | 237 | 321  |
| Input Current (mA) @480V | 67    | 92  | 114   | 138   | 175 | 243  |

## SA Performance

[Supplemental Performance Guide](#)

| Lumen Package            | SA1A<br>(350mA) | SA1B<br>(450mA) | SA1C<br>(615mA) | SA1D<br>(800mA) | SA1E<br>(1050mA) | SA1F<br>(1200mA) | SA2A<br>(350mA) | SA2B<br>(450mA) | SA2C<br>(615mA) | SA2D<br>(800mA) | SA2E<br>(1050mA) |
|--------------------------|-----------------|-----------------|-----------------|-----------------|------------------|------------------|-----------------|-----------------|-----------------|-----------------|------------------|
| Power Wattage (Watts)*   | 18W             | 24W             | 32W             | 44W             | 59W              | 67W              | 37W             | 47W             | 64W             | 84W             | 111W             |
| Input Current (mA) @120V | 150             | 200             | 270             | 370             | 490              | 564              | 320             | 400             | 538             | 700             | 925              |
| Input Current (mA) @277V | 72              | 90              | 120             | 162             | 210              | 251              | 150             | 184             | 236             | 303             | 397              |
| Power Wattage (Watts)*   | 21W             | 26.5W           | 35W             | 47W             | 61.5W            | 72W              | 42W             | 53W             | 70W             | 89W             | 116W             |
| Input Current (mA) @347V | 63              | 78              | 100             | 135             | 180              | 210              | 123             | 154             | 201             | 257             | 335              |
| Input Current (mA) @480V | 45              | 57              | 75              | 99              | 131              | 153              | 90              | 113             | 147             | 188             | 245              |

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VA Performance

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Supplemental Performance Guide

| Footcandle | Optics                       |                 | VA1      | VA2      | VA3      | VA4      | VA5      | VA6      |
|------------|------------------------------|-----------------|----------|----------|----------|----------|----------|----------|
| 730        | T2 (Type II)                 | Lumens          | 2,709    | 3,627    | 4,290    | 5,519    | --       | --       |
|            |                              | Lumens per Watt | 90.9     | 90       | 89       | 85       | --       | --       |
|            |                              | BUG Rating      | B2-U0-G2 | B2-U0-G2 | B2-U0-G2 | B2-U0-G3 | --       | --       |
|            | T3 (Type III)                | Lumens          | 2,765    | 3,701    | 4,377    | 5,631    | --       | --       |
|            |                              | Lumens per Watt | 92       | 90       | 90       | 87.2     | --       | --       |
|            |                              | BUG Rating      | B2-U0-G2 | B2-U0-G2 | B2-U0-G2 | B2-U0-G3 | --       | --       |
|            | T4FT (Type IV Forward Throw) | Lumens          | 3,230    | 4,368    | 5,116    | 6,257    | --       | --       |
|            |                              | Lumens per Watt | 107      | 107      | 104      | 97       | --       | --       |
|            |                              | BUG Rating      | B1-U0-G1 | B1-U0-G2 | B1-U0-G2 | B2-U0-G2 | --       | --       |
|            | T4W (Type IV Wide)           | Lumens          | 3,122    | 4,254    | 5,049    | 6,140    | 7,720    | 9,785    |
|            |                              | Lumens per Watt | 108      | 109      | 108      | 107      | 104      | 96.8     |
|            |                              | BUG Rating      | B1-U0-G1 | B2-U0-G2 | B2-U0-G2 | B2-U0-G2 | B2-U0-G3 | B2-U0-G3 |
| 740        | T2 (Type II)                 | Lumens          | 2,794    | 3,741    | 4,424    | 5,692    | --       | --       |
|            |                              | Lumens per Watt | 93.8     | 92       | 92       | 88       | --       | --       |
|            |                              | BUG Rating      | B2-U0-G2 | B2-U0-G2 | B2-U0-G2 | B2-U0-G3 | --       | --       |
|            | T3 (Type III)                | Lumens          | 2,851    | 3,817    | 4,514    | 5,807    | --       | --       |
|            |                              | Lumens per Watt | 95       | 93       | 92       | 89.9     | --       | --       |
|            |                              | BUG Rating      | B2-U0-G2 | B2-U0-G2 | B2-U0-G2 | B2-U0-G3 | --       | --       |
|            | T4FT (Type IV Forward Throw) | Lumens          | 3,332    | 4,505    | 5,276    | 6,453    | --       | --       |
|            |                              | Lumens per Watt | 110      | 111      | 108      | 99.9     | --       | --       |
|            |                              | BUG Rating      | B1-U0-G1 | B1-U0-G2 | B2-U0-G2 | B2-U0-G2 | --       | --       |
|            | T4W (Type IV Wide)           | Lumens          | 3,220    | 4,388    | 5,207    | 6,332    | 7,961    | 10,091   |
|            |                              | Lumens per Watt | 111      | 112      | 111      | 110      | 107      | 99.8     |
|            |                              | BUG Rating      | B1-U0-G1 | B2-U0-G2 | B2-U0-G2 | B2-U0-G2 | B2-U0-G3 | B2-U0-G3 |
| 827        | T2 (Type II)                 | Lumens          | 2,452    | 3,282    | 3,882    | 4,995    | --       | --       |
|            |                              | Lumens per Watt | 82.3     | 81       | 80       | 77       | --       | --       |
|            |                              | BUG Rating      | B1-U0-G1 | B2-U0-G2 | B2-U0-G2 | B2-U0-G2 | --       | --       |
|            | T3 (Type III)                | Lumens          | 2,502    | 3,349    | 3,961    | 5,096    | --       | --       |
|            |                              | Lumens per Watt | 83       | 82       | 81       | 78.9     | --       | --       |
|            |                              | BUG Rating      | B1-U0-G1 | B2-U0-G2 | B2-U0-G2 | B2-U0-G2 | --       | --       |
|            | T4FT (Type IV Forward Throw) | Lumens          | 2,924    | 3,954    | 4,630    | 5,662    | --       | --       |
|            |                              | Lumens per Watt | 97       | 97       | 94       | 87.7     | --       | --       |
|            |                              | BUG Rating      | B1-U0-G1 | B1-U0-G1 | B1-U0-G2 | B2-U0-G2 | --       | --       |
|            | T4W (Type IV Wide)           | Lumens          | 2,826    | 3,850    | 4,569    | 5,557    | 6,986    | 8,856    |
|            |                              | Lumens per Watt | 97       | 98       | 98       | 97       | 94       | 87.6     |
|            |                              | BUG Rating      | B1-U0-G1 | B2-U0-G2 | B2-U0-G2 | B2-U0-G2 | B2-U0-G2 | B2-U0-G3 |
| 830        | T2 (Type II)                 | Lumens          | 2,542    | 3,404    | 4,026    | 5,179    | --       | --       |
|            |                              | Lumens per Watt | 85       | 84       | 83       | 80       | --       | --       |
|            |                              | BUG Rating      | B1-U0-G1 | B2-U0-G2 | B2-U0-G2 | B2-U0-G3 | --       | --       |
|            | T3 (Type III)                | Lumens          | 2,595    | 3,473    | 4,108    | 5,284    | --       | --       |
|            |                              | Lumens per Watt | 86       | 85       | 84       | 81.8     | --       | --       |
|            |                              | BUG Rating      | B1-U0-G1 | B2-U0-G2 | B2-U0-G2 | B2-U0-G2 | --       | --       |
|            | T4FT (Type IV Forward Throw) | Lumens          | 3,031    | 4,099    | 4,801    | 5,871    | --       | --       |
|            |                              | Lumens per Watt | 100      | 101      | 98       | 90.9     | --       | --       |
|            |                              | BUG Rating      | B1-U0-G1 | B1-U0-G1 | B1-U0-G2 | B2-U0-G2 | --       | --       |
|            | T4W (Type IV Wide)           | Lumens          | 2,930    | 3,992    | 4,738    | 5,762    | 7,244    | 9,182    |
|            |                              | Lumens per Watt | 101      | 102      | 101      | 100      | 98       | 90.8     |
|            |                              | BUG Rating      | B1-U0-G1 | B2-U0-G2 | B2-U0-G2 | B2-U0-G2 | B2-U0-G3 | B2-U0-G3 |

## Energy and Performance Data

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| CCT | Optics                       |                 | VA1      | VA2      | VA3      | VA4      | VA5      | VA6      |
|-----|------------------------------|-----------------|----------|----------|----------|----------|----------|----------|
| 835 | T2 (Type II)                 | Lumens          | 2,588    | 3,464    | 4,097    | 5,271    | --       | --       |
|     |                              | Lumens per Watt | 86.8     | 86       | 85       | 82       | --       | --       |
|     |                              | BUG Rating      | B2-U0-G2 | B2-U0-G2 | B2-U0-G2 | B2-U0-G3 | --       | --       |
|     | T3 (Type III)                | Lumens          | 2,641    | 3,535    | 4,181    | 5,378    | --       | --       |
|     |                              | Lumens per Watt | 88       | 86       | 86       | 83.3     | --       | --       |
|     |                              | BUG Rating      | B1-U0-G1 | B2-U0-G2 | B2-U0-G2 | B2-U0-G2 | --       | --       |
|     | T4FT (Type IV Forward Throw) | Lumens          | 3,085    | 4,172    | 4,886    | 5,976    | --       | --       |
|     |                              | Lumens per Watt | 102      | 103      | 100      | 92.5     | --       | --       |
|     |                              | BUG Rating      | B1-U0-G1 | B1-U0-G1 | B1-U0-G2 | B2-U0-G2 | --       | --       |
|     | T4W (Type IV Wide)           | Lumens          | 2,982    | 4,064    | 4,822    | 5,864    | 7,373    | 9,346    |
|     |                              | Lumens per Watt | 103      | 104      | 103      | 102      | 99       | 92.4     |
|     |                              | BUG Rating      | B1-U0-G1 | B2-U0-G2 | B2-U0-G2 | B2-U0-G2 | B2-U0-G2 | B2-U0-G3 |

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| CCT | Optics   |                 | 1A<br>(350mA) | 1B<br>(450mA) | 1C<br>(600mA) | 1D<br>(800mA) | 1E<br>(1050mA) | 1F<br>(1200mA) | 2A<br>(350mA) | 2B<br>(450mA) | 2C<br>(600mA) | 2D<br>(800mA) | 2E<br>(1050mA) |
|-----|--|-----------------|---------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|
| 730 | T1 (Type I)  | Lumens          | 2,208         | 2,768         | 3,546         | 4,618         | 5,651          | 5,906          | 5,132         | 6,435         | 8,243         | 10,357        | 11,252         |
|     |  | Lumens per Watt | 121           | 118           | 111           | 106           | 98             | 94             | 141           | 137           | 129           | 124           | 103            |
|     |  | BUG Rating      | B1-U0-G1      | B2-U0-G2      | B2-U0-G2      | B2-U0-G2      | B3-U0-G3       | B3-U0-G3       | B2-U0-G2      | B3-U0-G3      | B3-U0-G3      | B3-U0-G3      | B3-U0-G3       |
|     | T2 (Type II)                                       | Lumens          | 2,220         | 2,784         | 3,566         | 4,644         | 5,683          | 5,939          | 5,161         | 6,471         | 8,289         | 10,415        | 11,316         |
|     |  | Lumens per Watt | 122           | 119           | 111.4         | 106.3         | 98.8           | 95             | 141.8         | 138.3         | 129.5         | 125           | 103.5          |
|     |  | BUG Rating      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1       | B1-U0-G2       | B1-U0-G1      | B1-U0-G2      | B2-U0-G2      | B2-U0-G2      | B2-U0-G2       |
|     | T2-HSS (Type II House Side Shield)                 | Lumens          | 1,609         | 2,018         | 2,585         | 3,366         | 4,120          | 4,305          | 3,741         | 4,691         | 6,009         | 7,550         | 8,203          |
|     |  | Lumens per Watt | 88.4          | 86.2          | 80.8          | 77            | 71.6           | 68.9           | 102.8         | 100.2         | 93.9          | 90.6          | 75             |
|     |  | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1       | B1-U0-G1       | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2       |
|     | T3 (Type III)                                      | Lumens          | 2,249         | 2,820         | 3,612         | 4,704         | 5,756          | 6,016          | 5,227         | 6,554         | 8,396         | 10,549        | 11,462         |
|     |  | Lumens per Watt | 123.6         | 120.5         | 112.9         | 107.6         | 100.1          | 96.3           | 143.6         | 140           | 131.2         | 126.6         | 104.9          |
|     |  | BUG Rating      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2       | B1-U0-G2       | B1-U0-G1      | B1-U0-G2      | B2-U0-G2      | B2-U0-G2      | B2-U0-G2       |
|     | T3-HSS (Type III House Side Shield)                | Lumens          | 1,622         | 2,034         | 2,606         | 3,393         | 4,153          | 4,340          | 3,771         | 4,728         | 6,057         | 7,610         | 8,268          |
|     |  | Lumens per Watt | 89.1          | 86.9          | 81.4          | 77.6          | 72.2           | 69.4           | 103.6         | 101           | 94.6          | 91.4          | 75.6           |
|     |  | BUG Rating      | B0-U0-G0      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1       | B1-U0-G1       | B1-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       |
|     | T4FT (Type IV Forward Throw)                       | Lumens          | 2,224         | 2,789         | 3,572         | 4,652         | 5,693          | 5,950          | 5,170         | 6,482         | 8,304         | 10,434        | 11,336         |
|     |  | Lumens per Watt | 122.2         | 119.2         | 111.6         | 106.5         | 99             | 95.2           | 142           | 138.5         | 129.8         | 125.3         | 103.7          |
|     |  | BUG Rating      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       | B1-U0-G2       | B1-U0-G2      | B1-U0-G2      | B2-U0-G3      | B2-U0-G3      | B2-U0-G3       |
|     | T4FT-HSS (Type IV Forward Throw House Side Shield) | Lumens          | 1,613         | 2,023         | 2,591         | 3,374         | 4,129          | 4,315          | 3,750         | 4,702         | 6,023         | 7,568         | 8,222          |
|     |  | Lumens per Watt | 88.6          | 86.4          | 81            | 77.2          | 71.8           | 69             | 103           | 100.5         | 94.6          | 90.8          | 75.2           |
|     |  | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1      | B1-U0-G2       | B1-U0-G2       | B1-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       |

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| CCT | Optics  |                 | 1A<br>(350mA) | 1B<br>(450mA) | 1C<br>(600mA) | 1D<br>(800mA) | 1E<br>(1050mA) | 1F<br>(1200mA) | 2A<br>(350mA) | 2B<br>(450mA) | 2C<br>(600mA) | 2D<br>(800mA) | 2E<br>(1050mA) |
|-----|---|-----------------|---------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|
| 730 | T4W (Type IV Wide)  | Lumens          | 2,242         | 2,810         | 3,600         | 4,688         | 5,737          | 5,996          | 5,210         | 6,533         | 8,369         | 10,515        | 11,424         |
|     |   | Lumens per Watt | 123.2         | 120.1         | 112.5         | 107.3         | 99.8           | 95.9           | 143.1         | 139.6         | 130.8         | 126.2         | 104.5          |
|     |   | BUG Rating      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2       | B1-U0-G2       | B1-U0-G2      | B1-U0-G2      | B2-U0-G2      | B2-U0-G3      | B2-U0-G3       |
|     | T4W-HSS (Type IV Wide House Side Shield)                      | Lumens          | 1,624         | 2,037         | 2,609         | 3,397         | 4,158          | 4,345          | 3,776         | 4,734         | 6,065         | 7,620         | 8,279          |
|     |   | Lumens per Watt | 89.2          | 87            | 81.5          | 77.7          | 72.3           | 69.5           | 103.7         | 101.2         | 94.8          | 91.5          | 75.7           |
|     |   | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B1-U0-G2       | B1-U0-G2       | B0-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       |
|     | SL2 (Type II w/ Spill Control)                                | Lumens          | 2,203         | 2,762         | 3,538         | 4,608         | 5,639          | 5,893          | 5,121         | 6,421         | 8,226         | 10,335        | 11,229         |
|     |   | Lumens per Watt | 121           | 118           | 110.6         | 105.4         | 98.1           | 94.3           | 140.7         | 137.2         | 128.5         | 124.1         | 102.7          |
|     |   | BUG Rating      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       | B1-U0-G2       | B1-U0-G2      | B1-U0-G2      | B2-U0-G3      | B2-U0-G3      | B2-U0-G3       |
|     | SL2-HSS (Type II w/ Spill Control, House Side Shield)         | Lumens          | 1,785         | 2,238         | 2,867         | 3,734         | 4,570          | 4,776          | 4,150         | 5,203         | 6,665         | 8,375         | 9,099          |
|     |   | Lumens per Watt | 98.1          | 95.7          | 89.6          | 85.4          | 79.5           | 76.4           | 114           | 111.2         | 104.1         | 100.5         | 83.2           |
|     |   | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1       | B1-U0-G1       | B1-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       |
|     | SL3 (Type III w/ Spill Control)                               | Lumens          | 2,200         | 2,759         | 3,534         | 4,602         | 5,632          | 5,886          | 5,115         | 6,413         | 8,216         | 10,322        | 11,215         |
|     |   | Lumens per Watt | 120.9         | 117.9         | 110.4         | 105.3         | 98             | 94.2           | 140.5         | 137           | 128.4         | 123.9         | 102.6          |
|     |   | BUG Rating      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       | B1-U0-G2       | B1-U0-G2      | B1-U0-G2      | B1-U0-G3      | B2-U0-G3      | B2-U0-G3       |
|     | SL3-HSS (Type III w/ Spill Control, House Side Shield)        | Lumens          | 1,835         | 2,300         | 2,947         | 3,838         | 4,696          | 4,908          | 4,265         | 5,348         | 6,850         | 8,607         | 9,351          |
|     |   | Lumens per Watt | 100.8         | 98.3          | 92.1          | 87.8          | 81.7           | 78.5           | 117.2         | 114.3         | 107           | 103.3         | 85.6           |
|     |   | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1       | B1-U0-G2       | B1-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       |
|     | SL4 (Type III w/ Spill Control)                               | Lumens          | 2,164         | 2,714         | 3,476         | 4,527         | 5,540          | 5,789          | 5,031         | 6,308         | 8,080         | 10,153        | 11,031         |
|     |   | Lumens per Watt | 118.9         | 116           | 108.6         | 103.6         | 96.3           | 92.6           | 138.2         | 134.8         | 126.3         | 121.9         | 100.9          |
|     |   | BUG Rating      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2       | B1-U0-G2       | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G3      | B1-U0-G3       |
|     | SL4-HSS (Type III w/ Spill Control, House Side Shield)        | Lumens          | 1,834         | 2,299         | 2,945         | 3,836         | 4,694          | 4,906          | 4,263         | 5,345         | 6,847         | 8,603         | 9,347          |
|     |   | Lumens per Watt | 100.8         | 98.3          | 92            | 87.8          | 81.6           | 78.5           | 117.1         | 114.2         | 107           | 103.3         | 85.5           |
|     |   | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1      | B1-U0-G2       | B1-U0-G2       | B1-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       |
|     | SLR (90° Spill Light Eliminator Right)                        | Lumens          | 1,925         | 2,413         | 3,091         | 4,026         | 4,927          | 5,149          | 4,474         | 5,610         | 7,186         | 9,029         | 9,810          |
|     |   | Lumens per Watt | 105.8         | 103.1         | 96.6          | 92.1          | 85.7           | 82.4           | 122.9         | 119.9         | 112.3         | 108.4         | 89.7           |
|     |   | BUG Rating      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2       | B1-U0-G2       | B1-U0-G2      | B1-U0-G2      | B1-U0-G3      | B1-U0-G3      | B2-U0-G3       |
|     | SLR-HSS (90° Spill Light Eliminator Right, House Side Shield) | Lumens          | 1,596         | 2,001         | 2,563         | 3,337         | 4,084          | 4,268          | 3,709         | 4,651         | 5,958         | 7,485         | 8,133          |
|     |   | Lumens per Watt | 87.7          | 85.5          | 80.1          | 76.4          | 71             | 68.3           | 101.9         | 99.4          | 93.1          | 89.9          | 74.4           |
|     |   | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1       | B1-U0-G1       | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       |
|     | SLL (90° Spill Light Eliminator Left)                         | Lumens          | 1,925         | 2,413         | 3,091         | 4,026         | 4,927          | 5,149          | 4,474         | 5,610         | 7,186         | 9,029         | 9,810          |
|     |   | Lumens per Watt | 105.8         | 103.1         | 96.6          | 92.1          | 85.7           | 82.4           | 122.9         | 119.9         | 112.3         | 108.4         | 89.7           |
|     |   | BUG Rating      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2       | B1-U0-G2       | B1-U0-G2      | B1-U0-G2      | B1-U0-G3      | B1-U0-G3      | B2-U0-G3       |
|     | SLL-HSS (90° Spill Light Eliminator Left, House Side Shield)  | Lumens          | 1,596         | 2,001         | 2,563         | 3,337         | 4,084          | 4,268          | 3,709         | 4,651         | 5,958         | 7,485         | 8,133          |
|     |   | Lumens per Watt | 87.7          | 85.5          | 80.1          | 76.4          | 71             | 68.3           | 101.9         | 99.4          | 93.1          | 89.9          | 74.4           |
|     |   | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1       | B1-U0-G1       | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       |

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| CCT | Optics   |                 | 1A<br>(350mA) | 1B<br>(450mA) | 1C<br>(600mA) | 1D<br>(800mA) | 1E<br>(1050mA) | 1F<br>(1200mA) | 2A<br>(350mA) | 2B<br>(450mA) | 2C<br>(600mA) | 2D<br>(800mA) | 2E<br>(1050mA) |
|-----|--|-----------------|---------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|
| 740 | T1 (Type I)  | Lumens          | 2,292         | 2,874         | 3,681         | 4,794         | 5,867          | 6,132          | 5,328         | 6,680         | 8,558         | 10,752        | 11,682         |
|     |  | Lumens per Watt | 126           | 123           | 115           | 110           | 102            | 98             | 146           | 143           | 134           | 129           | 107            |
|     |  | BUG Rating      | B1-U0-G1      | B2-U0-G2      | B2-U0-G2      | B2-U0-G2      | B3-U0-G3       | B3-U0-G3       | B3-U0-G3      | B3-U0-G3      | B3-U0-G3      | B3-U0-G3      | B3-U0-G3       |
|     | T2 (Type II)   | Lumens          | 2,305         | 2,890         | 3,702         | 4,821         | 5,900          | 6,166          | 5,358         | 6,718         | 8,606         | 10,813        | 11,748         |
|     |  | Lumens per Watt | 126.6         | 123.5         | 115.7         | 110.3         | 102.6          | 98.7           | 147.2         | 143.5         | 134.5         | 129.8         | 107.5          |
|     |  | BUG Rating      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2       | B1-U0-G2       | B1-U0-G1      | B1-U0-G2      | B2-U0-G2      | B2-U0-G2      | B2-U0-G2       |
|     | T2-HSS (Type II House Side Shield)                     | Lumens          | 1,671         | 2,095         | 2,684         | 3,495         | 4,277          | 4,470          | 3,884         | 4,870         | 6,239         | 7,838         | 8,516          |
|     |  | Lumens per Watt | 91.8          | 89.5          | 83.9          | 80            | 74.4           | 71.5           | 106.7         | 104.1         | 97.5          | 94.1          | 77.9           |
|     |  | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1       | B1-U0-G1       | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       |
|     | T3 (Type III)  | Lumens          | 2,335         | 2,927         | 3,750         | 4,883         | 5,976          | 6,246          | 5,427         | 6,805         | 8,717         | 10,953        | 11,900         |
|     |  | Lumens per Watt | 128.3         | 125.1         | 117.2         | 111.7         | 103.9          | 99.9           | 149.1         | 145.4         | 136.2         | 131.5         | 108.9          |
|     |  | BUG Rating      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2       | B1-U0-G2       | B1-U0-G2      | B1-U0-G2      | B2-U0-G2      | B2-U0-G2      | B2-U0-G2       |
|     | T3-HSS (Type III House Side Shield)                    | Lumens          | 1,684         | 2,112         | 2,705         | 3,523         | 4,311          | 4,506          | 3,915         | 4,909         | 6,288         | 7,901         | 8,584          |
|     |  | Lumens per Watt | 92.5          | 90.2          | 84.5          | 80.6          | 75             | 72.1           | 107.6         | 104.9         | 98.3          | 94.9          | 78.5           |
|     |  | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1       | B1-U0-G1       | B1-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       |
|     | T4FT (Type IV Forward Throw)                           | Lumens          | 2,309         | 2,895         | 3,709         | 4,830         | 5,911          | 6,177          | 5,368         | 6,730         | 8,622         | 10,833        | 11,769         |
|     |  | Lumens per Watt | 126.9         | 123.7         | 115.9         | 110.5         | 102.8          | 98.8           | 147.5         | 143.8         | 134.7         | 130           | 107.7          |
|     |  | BUG Rating      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       | B1-U0-G2       | B1-U0-G2      | B1-U0-G2      | B2-U0-G3      | B2-U0-G3      | B2-U0-G3       |
|     | T4FT-HSS (Type IV Forward Throw House Side Shield)     | Lumens          | 1,675         | 2,100         | 2,690         | 3,503         | 4,287          | 4,480          | 3,893         | 4,881         | 6,253         | 7,857         | 8,536          |
|     |  | Lumens per Watt | 92            | 89.7          | 84.1          | 80.2          | 74.6           | 71.7           | 107           | 104.3         | 97.7          | 94.3          | 78.1           |
|     |  | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1      | B1-U0-G2       | B1-U0-G2       | B1-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       |
|     | T4W (Type IV Wide)                                     | Lumens          | 2,327         | 2,918         | 3,738         | 4,867         | 5,957          | 6,225          | 5,409         | 6,783         | 8,689         | 10,917        | 11,861         |
|     |  | Lumens per Watt | 127.9         | 124.7         | 116.8         | 111.4         | 103.6          | 99.6           | 148.6         | 144.9         | 135.8         | 131.1         | 108.5          |
|     |  | BUG Rating      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2       | B1-U0-G2       | B1-U0-G2      | B1-U0-G2      | B2-U0-G2      | B2-U0-G3      | B2-U0-G3       |
|     | T4W-HSS (Type IV Wide House Side Shield)               | Lumens          | 1,686         | 2,114         | 2,708         | 3,527         | 4,316          | 4,511          | 3,920         | 4,915         | 6,296         | 7,911         | 8,595          |
|     |  | Lumens per Watt | 92.7          | 90.4          | 84.6          | 80.7          | 75.1           | 72.2           | 107.7         | 105           | 98.4          | 95            | 78.6           |
|     |  | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B1-U0-G2       | B1-U0-G2       | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       |
|     | SL2 (Type II w/ Spill Control)                         | Lumens          | 2,287         | 2,868         | 3,674         | 4,784         | 5,855          | 6,119          | 5,317         | 6,666         | 8,540         | 10,730        | 11,658         |
|     |  | Lumens per Watt | 125.7         | 122.6         | 114.8         | 109.5         | 101.8          | 97.9           | 146.1         | 142.4         | 133.4         | 128.8         | 106.7          |
|     |  | BUG Rating      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       | B1-U0-G2       | B1-U0-G2      | B1-U0-G2      | B2-U0-G3      | B2-U0-G3      | B2-U0-G3       |
|     | SL2-HSS (Type II w/ Spill Control, House Side Shield)  | Lumens          | 1,854         | 2,324         | 2,977         | 3,877         | 4,744          | 4,958          | 4,308         | 5,402         | 6,920         | 8,695         | 9,447          |
|     |  | Lumens per Watt | 101.8         | 99.3          | 93            | 88.7          | 82.5           | 79.3           | 118.4         | 115.4         | 108.1         | 104.4         | 86.4           |
|     |  | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1       | B1-U0-G1       | B1-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       |
|     | SL3 (Type III w/ Spill Control)                        | Lumens          | 2,285         | 2,864         | 3,669         | 4,778         | 5,848          | 6,111          | 5,310         | 6,658         | 8,529         | 10,717        | 11,643         |
|     |  | Lumens per Watt | 125.5         | 122.4         | 114.7         | 109.3         | 101.7          | 97.8           | 145.9         | 142.3         | 133.3         | 128.7         | 106.5          |
|     |  | BUG Rating      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       | B1-U0-G2       | B1-U0-G2      | B1-U0-G2      | B1-U0-G3      | B2-U0-G3      | B2-U0-G3       |
|     | SL3-HSS (Type III w/ Spill Control, House Side Shield) | Lumens          | 1,905         | 2,388         | 3,059         | 3,984         | 4,876          | 5,096          | 4,428         | 5,552         | 7,112         | 8,936         | 9,709          |
|     |  | Lumens per Watt | 104.7         | 102.1         | 95.6          | 91.2          | 84.8           | 81.5           | 121.6         | 118.6         | 111.1         | 107.3         | 88.8           |
|     |  | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2       | B1-U0-G2       | B1-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       |
|     | SL4 (Type III w/ Spill Control)                        | Lumens          | 2,247         | 2,817         | 3,609         | 4,700         | 5,751          | 6,011          | 5,223         | 6,549         | 8,389         | 10,541        | 11,452         |
|     |  | Lumens per Watt | 123.5         | 120.4         | 112.8         | 107.5         | 100            | 96.2           | 143.5         | 139.9         | 131.1         | 126.1         | 103.5          |
|     |  | BUG Rating      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2       | B1-U0-G2       | B1-U0-G2      | B1-U0-G2      | B1-U0-G3      | B1-U0-G3      | B1-U0-G3       |

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| CCT | Optics  |                 | 1A<br>(350mA) | 1B<br>(450mA) | 1C<br>(600mA) | 1D<br>(800mA) | 1E<br>(1050mA) | 1F<br>(1200mA) | 2A<br>(350mA) | 2B<br>(450mA) | 2C<br>(600mA) | 2D<br>(800mA) | 2E<br>(1050mA) |
|-----|---|-----------------|---------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|
| 740 | SL4-HSS (Type III w/ Spill Control, House Side Shield)        | Lumens          | 1,904         | 2,387         | 3,058         | 3,982         | 4,873          | 5,093          | 4,426         | 5,549         | 7,109         | 8,932         | 9,704          |
|     |   | Lumens per Watt | 104.6         | 102           | 95.6          | 91.1          | 84.8           | 81.5           | 121.6         | 118.6         | 111.1         | 107.2         | 88.8           |
|     |   | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1      | B1-U0-G2       | B1-U0-G2       | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       |
|     | SLR (90° Spill Light Eliminator Right)                        | Lumens          | 1,998         | 2,505         | 3,209         | 4,179         | 5,115          | 5,345          | 4,645         | 5,824         | 7,461         | 9,374         | 10,184         |
|     |   | Lumens per Watt | 109.8         | 107.1         | 100.3         | 95.6          | 89             | 85.5           | 127.6         | 124.4         | 116.6         | 112.5         | 93.2           |
|     |   | BUG Rating      | B0-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       | B1-U0-G2       | B1-U0-G2      | B1-U0-G2      | B1-U0-G3      | B2-U0-G3      | B2-U0-G3       |
|     | SLR-HSS (90° Spill Light Eliminator Right, House Side Shield) | Lumens          | 1,657         | 2,077         | 2,661         | 3,465         | 4,240          | 4,432          | 3,851         | 4,828         | 6,185         | 7,771         | 8,443          |
|     |   | Lumens per Watt | 91            | 88.8          | 83.1          | 79.3          | 73.7           | 70.9           | 105.8         | 103.2         | 96.6          | 93.3          | 77.2           |
|     |   | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1       | B1-U0-G1       | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       |
|     | SLL (90° Spill Light Eliminator Left)                         | Lumens          | 1,998         | 2,505         | 3,209         | 4,179         | 5,115          | 5,345          | 4,645         | 5,824         | 7,461         | 9,374         | 10,184         |
|     |   | Lumens per Watt | 109.8         | 107.1         | 100.3         | 95.6          | 89             | 85.5           | 127.6         | 124.4         | 116.6         | 112.5         | 93.2           |
|     |   | BUG Rating      | B0-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       | B1-U0-G2       | B1-U0-G2      | B1-U0-G2      | B1-U0-G3      | B2-U0-G3      | B2-U0-G3       |
|     | SLL-HSS (90° Spill Light Eliminator Left, House Side Shield)  | Lumens          | 1,657         | 2,077         | 2,661         | 3,465         | 4,240          | 4,432          | 3,851         | 4,828         | 6,185         | 7,771         | 8,443          |
|     |   | Lumens per Watt | 91            | 88.8          | 83.1          | 79.3          | 73.7           | 70.9           | 105.8         | 103.2         | 96.6          | 93.3          | 77.2           |
|     |   | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1       | B1-U0-G1       | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       |
| 827 | T1 (Type I)   | Lumens          | 1,685         | 2,113         | 2,706         | 3,524         | 4,313          | 4,507          | 3,917         | 4,911         | 6,291         | 7,904         | 8,588          |
|     |   | Lumens per Watt | 93            | 90            | 85            | 81            | 75             | 72             | 108           | 105           | 98            | 95            | 79             |
|     |   | BUG Rating      | B1-U0-G1      | B1-U0-G1      | B2-U0-G2      | B2-U0-G2      | B2-U0-G2       | B2-U0-G2       | B2-U0-G2      | B2-U0-G2      | B3-U0-G3      | B3-U0-G3      | B3-U0-G3       |
|     | T2 (Type II)  | Lumens          | 1,694         | 2,124         | 2,721         | 3,544         | 4,337          | 4,533          | 3,939         | 4,938         | 6,326         | 7,949         | 8,636          |
|     |   | Lumens per Watt | 93.1          | 90.8          | 85            | 81.1          | 75.4           | 72.5           | 108.2         | 105.5         | 98.8          | 95.4          | 79             |
|     |   | BUG Rating      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1       | B1-U0-G1       | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B2-U0-G2      | B2-U0-G2       |
|     | T2-HSS (Type II House Side Shield)                            | Lumens          | 1,228         | 1,540         | 1,973         | 2,569         | 3,144          | 3,286          | 2,855         | 3,580         | 4,586         | 5,762         | 6,260          |
|     |   | Lumens per Watt | 67.5          | 65.8          | 61.6          | 58.8          | 54.7           | 52.6           | 78.4          | 76.5          | 71.7          | 69.2          | 57.3           |
|     |   | BUG Rating      | B0-U0-G0      | B0-U0-G0      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1       | B1-U0-G1       | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2       |
|     | T3 (Type III)   | Lumens          | 1,716         | 2,152         | 2,756         | 3,590         | 4,393          | 4,591          | 3,990         | 5,002         | 6,408         | 8,051         | 8,747          |
|     |   | Lumens per Watt | 94.3          | 92            | 86.1          | 82.1          | 76.4           | 73.5           | 109.6         | 106.9         | 100.1         | 96.7          | 80             |
|     |   | BUG Rating      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1       | B1-U0-G1       | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B2-U0-G2      | B2-U0-G2       |

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| CCT | Optics  |                 | 1A<br>(350mA) | 1B<br>(450mA) | 1C<br>(600mA) | 1D<br>(800mA) | 1E<br>(1050mA) | 1F<br>(1200mA) | 2A<br>(350mA) | 2B<br>(450mA) | 2C<br>(600mA) | 2D<br>(800mA) | 2E<br>(1050mA) |
|-----|---|-----------------|---------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|
| 827 | T3-HSS (Type III House Side Shield)                           | Lumens          | 1,238         | 1,552         | 1,989         | 2,590         | 3,169          | 3,312          | 2,878         | 3,609         | 4,623         | 5,808         | 6,310          |
|     |   | Lumens per Watt | 68            | 66.3          | 62.1          | 59.3          | 55.1           | 53             | 79.1          | 77.1          | 72.2          | 69.7          | 57.7           |
|     |   | BUG Rating      | B0-U0-G0      | B0-U0-G0      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1       | B1-U0-G1       | B0-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2       |
|     | T4FT (Type IV Forward Throw)                                  | Lumens          | 1,698         | 2,128         | 2,726         | 3,550         | 4,345          | 4,541          | 3,946         | 4,947         | 6,338         | 7,963         | 8,652          |
|     |   | Lumens per Watt | 93.3          | 91            | 85.2          | 81.2          | 75.6           | 72.7           | 108.4         | 105.7         | 99            | 95.6          | 79.2           |
|     |   | BUG Rating      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2       | B1-U0-G2       | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G3      | B2-U0-G3       |
|     | T4FT-HSS (Type IV Forward Throw House Side Shield)            | Lumens          | 1,231         | 1,544         | 1,977         | 2,575         | 3,151          | 3,293          | 2,862         | 3,588         | 4,597         | 5,776         | 6,275          |
|     |   | Lumens per Watt | 67.6          | 66            | 61.8          | 58.9          | 54.8           | 52.7           | 78.6          | 76.7          | 71.8          | 69.3          | 57.4           |
|     |   | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1       | B1-U0-G1       | B0-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       |
|     | T4W (Type IV Wide)  | Lumens          | 1,711         | 2,145         | 2,748         | 3,578         | 4,379          | 4,576          | 3,977         | 4,986         | 6,387         | 8,025         | 8,719          |
|     |   | Lumens per Watt | 94            | 91.7          | 85.9          | 81.9          | 76.2           | 73.2           | 109.2         | 106.5         | 99.8          | 96.3          | 79.8           |
|     |   | BUG Rating      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2       | B1-U0-G2       | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B2-U0-G2      | B2-U0-G2       |
|     | T4W-HSS (Type IV Wide House Side Shield)                      | Lumens          | 1,240         | 1,554         | 1,991         | 2,593         | 3,173          | 3,316          | 2,882         | 3,613         | 4,628         | 5,815         | 6,318          |
|     |   | Lumens per Watt | 68.1          | 66.4          | 62.2          | 59.3          | 55.2           | 53.1           | 79.2          | 77.2          | 72.3          | 69.8          | 57.8           |
|     |   | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1       | B0-U0-G1       | B0-U0-G1      | B0-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       |
|     | SL2 (Type II w/ Spill Control)                                | Lumens          | 1,681         | 2,108         | 2,700         | 3,517         | 4,304          | 4,498          | 3,908         | 4,900         | 6,278         | 7,887         | 8,570          |
|     |   | Lumens per Watt | 92.4          | 90.1          | 84.4          | 80.5          | 74.8           | 72             | 107.4         | 104.7         | 98.1          | 94.7          | 78.4           |
|     |   | BUG Rating      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2       | B1-U0-G2       | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B2-U0-G3      | B2-U0-G3       |
|     | SL2-HSS (Type II w/ Spill Control, House Side Shield)         | Lumens          | 1,363         | 1,708         | 2,188         | 2,850         | 3,488          | 3,645          | 3,167         | 3,971         | 5,087         | 6,392         | 6,944          |
|     |   | Lumens per Watt | 74.9          | 73            | 68.4          | 65.2          | 60.7           | 58.3           | 87            | 84.9          | 79.5          | 76.7          | 63.5           |
|     |   | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1       | B1-U0-G1       | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2       |
|     | SL3 (Type III w/ Spill Control)                               | Lumens          | 1,679         | 2,106         | 2,697         | 3,512         | 4,299          | 4,492          | 3,904         | 4,895         | 6,270         | 7,878         | 8,559          |
|     |   | Lumens per Watt | 92.3          | 90            | 84.3          | 80.4          | 74.8           | 71.9           | 107.2         | 104.6         | 98            | 94.6          | 78.3           |
|     |   | BUG Rating      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2       | B1-U0-G2       | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G3      | B1-U0-G3       |
|     | SL3-HSS (Type III w/ Spill Control, House Side Shield)        | Lumens          | 1,400         | 1,756         | 2,249         | 2,929         | 3,584          | 3,746          | 3,255         | 4,081         | 5,228         | 6,569         | 7,137          |
|     |   | Lumens per Watt | 76.9          | 75            | 70.3          | 67            | 62.3           | 59.9           | 89.4          | 87.2          | 81.7          | 78.9          | 65.3           |
|     |   | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1       | B1-U0-G1       | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       |
|     | SL4 (Type III w/ Spill Control)                               | Lumens          | 1,652         | 2,071         | 2,653         | 3,455         | 4,228          | 4,418          | 3,839         | 4,814         | 6,167         | 7,748         | 8,418          |
|     |   | Lumens per Watt | 90.8          | 88.5          | 82.9          | 79.1          | 73.5           | 70.7           | 105.5         | 102.9         | 96.4          | 93            | 77             |
|     |   | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1      | B1-U0-G2       | B1-U0-G2       | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G3       |
|     | SL4-HSS (Type III w/ Spill Control, House Side Shield)        | Lumens          | 1,400         | 1,755         | 2,248         | 2,927         | 3,582          | 3,744          | 3,253         | 4,079         | 5,226         | 6,566         | 7,133          |
|     |   | Lumens per Watt | 76.9          | 75            | 70.2          | 67            | 62.3           | 59.9           | 89.4          | 87.2          | 81.6          | 78.8          | 65.3           |
|     |   | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1       | B1-U0-G1       | B0-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       |
|     | SLR (90° Spill Light Eliminator Right)                        | Lumens          | 1,469         | 1,842         | 2,359         | 3,072         | 3,760          | 3,929          | 3,414         | 4,281         | 5,484         | 6,891         | 7,487          |
|     |   | Lumens per Watt | 80.7          | 78.7          | 73.7          | 70.3          | 65.4           | 62.9           | 93.8          | 91.5          | 85.7          | 82.7          | 68.5           |
|     |   | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2       | B1-U0-G2       | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G3       |
|     | SLR-HSS (90° Spill Light Eliminator Right, House Side Shield) | Lumens          | 1,218         | 1,527         | 1,956         | 2,547         | 3,117          | 3,258          | 2,831         | 3,549         | 4,547         | 5,713         | 6,207          |
|     |   | Lumens per Watt | 66.9          | 65.2          | 61.1          | 58.3          | 54.2           | 52.1           | 77.8          | 75.8          | 71.8          | 69.3          | 57.4           |
|     |   | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1       | B1-U0-G1       | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2       |

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| CCT | Optics   |                 | 1A<br>(350mA) | 1B<br>(450mA) | 1C<br>(600mA) | 1D<br>(800mA) | 1E<br>(1050mA) | 1F<br>(1200mA) | 2A<br>(350mA) | 2B<br>(450mA) | 2C<br>(600mA) | 2D<br>(800mA) | 2E<br>(1050mA) |
|-----|--|-----------------|---------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|
| 827 | SLL (90° Spill<br>Light Elimina-<br>tor Left)                            | Lumens          | 1,469         | 1,842         | 2,359         | 3,072         | 3,760          | 3,929          | 3,414         | 4,281         | 5,484         | 6,891         | 7,487          |
|     |  | Lumens per Watt | 80.7          | 78.7          | 73.7          | 70.3          | 65.4           | 62.9           | 93.8          | 91.5          | 85.7          | 82.7          | 68.5           |
|     |  | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2       | B1-U0-G2       | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G3       |
|     | SLL-HSS (90°<br>Spill Light<br>Eliminator Left,<br>House Side<br>Shield) | Lumens          | 1,218         | 1,527         | 1,956         | 2,547         | 3,117          | 3,258          | 2,831         | 3,549         | 4,547         | 5,713         | 6,207          |
|     |  | Lumens per Watt | 66.9          | 65.2          | 61.1          | 58.3          | 54.2           | 52.1           | 77.8          | 75.8          | 71            | 68.6          | 56.8           |
|     |  | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1       | B1-U0-G1       | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2       |
| 830 | T1 (Type I)  | Lumens          | 1,821         | 2,284         | 2,925         | 3,809         | 4,662          | 4,872          | 4,234         | 5,308         | 6,800         | 8,544         | 9,283          |
|     |  | Lumens per Watt | 100           | 98            | 91            | 87            | 81             | 78             | 116           | 113           | 106           | 103           | 85             |
|     |  | BUG Rating      | B1-U0-G1      | B1-U0-G1      | B2-U0-G2      | B2-U0-G2      | B2-U0-G2       | B2-U0-G2       | B2-U0-G2      | B2-U0-G2      | B3-U0-G3      | B3-U0-G3      | B3-U0-G3       |
|     | T2 (Type II)   | Lumens          | 1,832         | 2,296         | 2,942         | 3,831         | 4,688          | 4,900          | 4,258         | 5,338         | 6,838         | 8,592         | 9,335          |
|     |  | Lumens per Watt | 100.6         | 98.1          | 91.9          | 87.7          | 81.5           | 78.4           | 117           | 114.1         | 106.8         | 103.1         | 85.4           |
|     |  | BUG Rating      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1       | B1-U0-G1       | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B2-U0-G2      | B2-U0-G2       |
|     | T2-HSS (Type<br>II House Side<br>Shield)                                 | Lumens          | 1,328         | 1,665         | 2,132         | 2,777         | 3,398          | 3,552          | 3,086         | 3,870         | 4,957         | 6,228         | 6,767          |
|     |  | Lumens per Watt | 73            | 71.1          | 66.6          | 63.5          | 59.1           | 56.8           | 84.8          | 82.7          | 77.5          | 74.8          | 61.9           |
|     |  | BUG Rating      | B0-U0-G0      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1       | B1-U0-G1       | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2       |
|     | T3 (Type III)  | Lumens          | 1,855         | 2,326         | 2,980         | 3,880         | 4,749          | 4,963          | 4,312         | 5,407         | 6,927         | 8,703         | 9,455          |
|     |  | Lumens per Watt | 101.9         | 99.4          | 93.1          | 88.8          | 82.6           | 79.4           | 118.5         | 115.5         | 108.2         | 104.5         | 86.5           |
|     |  | BUG Rating      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1       | B1-U0-G1       | B1-U0-G1      | B1-U0-G2      | B1-U0-G2      | B2-U0-G2      | B2-U0-G2       |
|     | T3-HSS (Type<br>III House Side<br>Shield)                                | Lumens          | 1,338         | 1,678         | 2,149         | 2,799         | 3,426          | 3,580          | 3,111         | 3,901         | 4,997         | 6,278         | 6,821          |
|     |  | Lumens per Watt | 73.5          | 71.7          | 67.2          | 64.1          | 59.6           | 57.3           | 85.5          | 83.3          | 78.1          | 75.4          | 62.4           |
|     |  | BUG Rating      | B0-U0-G0      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1       | B1-U0-G1       | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       |
|     | T4FT (Type<br>IV Forward<br>Throw)                                       | Lumens          | 1,835         | 2,301         | 2,947         | 3,838         | 4,697          | 4,908          | 4,265         | 5,348         | 6,851         | 8,608         | 9,352          |
|     |  | Lumens per Watt | 100.8         | 98.3          | 92.1          | 87.8          | 81.7           | 78.5           | 117.2         | 114.3         | 107           | 103.3         | 85.6           |
|     |  | BUG Rating      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2       | B1-U0-G2       | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B2-U0-G3      | B2-U0-G3       |
|     | T4FT-HSS<br>(Type IV<br>Forward Throw<br>House Side<br>Shield)           | Lumens          | 1,331         | 1,669         | 2,137         | 2,783         | 3,406          | 3,560          | 3,094         | 3,879         | 4,969         | 6,243         | 6,783          |
|     |  | Lumens per Watt | 73.1          | 71.3          | 66.8          | 63.7          | 59.2           | 57             | 85            | 82.9          | 77.6          | 74.9          | 62.1           |
|     |  | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1       | B1-U0-G1       | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       |
|     | T4W (Type IV<br>Wide)  | Lumens          | 1,849         | 2,318         | 2,970         | 3,868         | 4,733          | 4,947          | 4,298         | 5,389         | 6,904         | 8,675         | 9,425          |
|     |  | Lumens per Watt | 101.6         | 99.1          | 92.8          | 88.5          | 82.3           | 79.1           | 118.1         | 115.2         | 107.9         | 104.1         | 86.2           |
|     |  | BUG Rating      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2       | B1-U0-G2       | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B2-U0-G2      | B2-U0-G3       |
|     | T4W-HSS<br>(Type IV Wide<br>House Side<br>Shield)                        | Lumens          | 1,340         | 1,680         | 2,152         | 2,803         | 3,430          | 3,585          | 3,115         | 3,905         | 5,003         | 6,286         | 6,830          |
|     |  | Lumens per Watt | 73.6          | 71.8          | 67.3          | 64.1          | 59.6           | 57.4           | 85.6          | 83.4          | 78.2          | 75.5          | 62.5           |
|     |  | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1       | B0-U0-G1       | B0-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       |
|     | SL2 (Type II w/<br>Spill Control)  | Lumens          | 1,818         | 2,279         | 2,919         | 3,801         | 4,652          | 4,862          | 4,225         | 5,297         | 6,786         | 8,526         | 9,263          |
|     |  | Lumens per Watt | 99.9          | 97.4          | 91.2          | 87            | 80.9           | 77.8           | 116.1         | 113.2         | 106           | 102.4         | 84.7           |
|     |  | BUG Rating      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2       | B1-U0-G2       | B1-U0-G2      | B1-U0-G2      | B2-U0-G2      | B2-U0-G3      | B2-U0-G3       |
|     | SL2-HSS (Type<br>II w/ Spill<br>Control, House<br>Side Shield)           | Lumens          | 1,473         | 1,847         | 2,365         | 3,080         | 3,770          | 3,940          | 3,423         | 4,292         | 5,499         | 6,909         | 7,506          |
|     |  | Lumens per Watt | 80.9          | 78.9          | 73.9          | 70.5          | 65.6           | 63             | 94            | 91.7          | 85.9          | 82.9          | 68.7           |
|     |  | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1       | B1-U0-G1       | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       |
|     | SL3 (Type<br>III w/ Spill<br>Control)                                    | Lumens          | 1,815         | 2,276         | 2,915         | 3,797         | 4,646          | 4,856          | 4,220         | 5,291         | 6,778         | 8,516         | 9,252          |
|     |  | Lumens per Watt | 99.7          | 97.3          | 91.1          | 86.9          | 80.8           | 77.7           | 115.9         | 113           | 105.9         | 102.2         | 84.6           |
|     |  | BUG Rating      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2       | B1-U0-G2       | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G3      | B2-U0-G3       |

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| CCT | Optics  |                 | 1A<br>(350mA) | 1B<br>(450mA) | 1C<br>(600mA) | 1D<br>(800mA) | 1E<br>(1050mA) | 1F<br>(1200mA) | 2A<br>(350mA) | 2B<br>(450mA) | 2C<br>(600mA) | 2D<br>(800mA) | 2E<br>(1050mA) |
|-----|---|-----------------|---------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|
| 830 | SL3-HSS (Type III w/ Spill Control, House Side Shield)        | Lumens          | 1,514         | 1,898         | 2,431         | 3,166         | 3,874          | 4,049          | 3,518         | 4,411         | 5,651         | 7,100         | 7,714          |
|     |   | Lumens per Watt | 83.2          | 81.1          | 76            | 72.4          | 67.4           | 64.8           | 96.7          | 94.3          | 88.3          | 85.2          | 70.6           |
|     |   | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1       | B1-U0-G1       | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2       |
|     | SL4 (Type III w/ Spill Control)                               | Lumens          | 1,785         | 2,239         | 2,868         | 3,734         | 4,570          | 4,776          | 4,150         | 5,204         | 6,666         | 8,376         | 9,100          |
|     |   | Lumens per Watt | 98.1          | 95.7          | 89.6          | 85.5          | 79.5           | 76.4           | 114           | 111.2         | 104.2         | 100.5         | 83.3           |
|     |   | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2       | B1-U0-G2       | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G3       |
|     | SL4-HSS (Type III w/ Spill Control, House Side Shield)        | Lumens          | 1,513         | 1,897         | 2,430         | 3,164         | 3,872          | 4,047          | 3,517         | 4,409         | 5,649         | 7,097         | 7,711          |
|     |   | Lumens per Watt | 83.1          | 81.1          | 75.9          | 72.4          | 67.3           | 64.8           | 96.6          | 94.2          | 88.3          | 85.2          | 70.5           |
|     |   | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1       | B1-U0-G1       | B0-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       |
|     | SLR (90° Spill Light Eliminator Right)                        | Lumens          | 1,588         | 1,991         | 2,550         | 3,321         | 4,064          | 4,247          | 3,691         | 4,628         | 5,928         | 7,448         | 8,093          |
|     |   | Lumens per Watt | 87.2          | 85.1          | 79.7          | 76            | 70.7           | 68             | 101.4         | 98.9          | 92.6          | 89.4          | 74             |
|     |   | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2       | B1-U0-G2       | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G3       |
|     | SLR-HSS (90° Spill Light Eliminator Right, House Side Shield) | Lumens          | 1,316         | 1,650         | 2,114         | 2,753         | 3,369          | 3,521          | 3,060         | 3,837         | 4,915         | 6,175         | 6,709          |
|     |   | Lumens per Watt | 72.3          | 70.5          | 66.1          | 63            | 58.6           | 56.3           | 84.1          | 82            | 76.8          | 74.1          | 61.4           |
|     |   | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1       | B1-U0-G1       | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       |
|     | SLL (90° Spill Light Eliminator Left)                         | Lumens          | 1,588         | 1,991         | 2,550         | 3,321         | 4,064          | 4,247          | 3,691         | 4,628         | 5,928         | 7,448         | 8,093          |
|     |   | Lumens per Watt | 87.2          | 85.1          | 79.7          | 76            | 70.7           | 68             | 101.4         | 98.9          | 92.6          | 89.4          | 74             |
|     |   | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2       | B1-U0-G2       | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G3       |
|     | SLL-HSS (90° Spill Light Eliminator Left, House Side Shield)  | Lumens          | 1,316         | 1,650         | 2,114         | 2,753         | 3,369          | 3,521          | 3,060         | 3,837         | 4,915         | 6,175         | 6,709          |
|     |   | Lumens per Watt | 72.3          | 70.5          | 66.1          | 63            | 58.6           | 56.3           | 84.1          | 82            | 76.8          | 74.1          | 61.4           |
|     |   | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1       | B1-U0-G1       | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       |
| 835 | T1 (Type I)   | Lumens          | 1,889         | 2,368         | 3,033         | 3,950         | 4,834          | 5,052          | 4,390         | 5,505         | 7,052         | 8,860         | 9,626          |
|     |   | Lumens per Watt | 104           | 101           | 95            | 90            | 84             | 81             | 121           | 118           | 110           | 106           | 88             |
|     |   | BUG Rating      | B1-U0-G1      | B1-U0-G1      | B2-U0-G2      | B2-U0-G2      | B2-U0-G2       | B2-U0-G2       | B2-U0-G2      | B3-U0-G3      | B3-U0-G3      | B3-U0-G3      | B3-U0-G3       |
|     | T2 (Type II)  | Lumens          | 1,899         | 2,381         | 3,050         | 3,973         | 4,862          | 5,081          | 4,415         | 5,536         | 7,091         | 8,910         | 9,680          |
|     |   | Lumens per Watt | 104.4         | 101.8         | 95.3          | 90.9          | 84.5           | 81.3           | 121.3         | 118.3         | 110.8         | 107           | 88.6           |
|     |   | BUG Rating      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1       | B1-U0-G1       | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B2-U0-G2      | B2-U0-G2       |
|     | T2-HSS (Type II House Side Shield)                            | Lumens          | 1,377         | 1,726         | 2,211         | 2,880         | 3,524          | 3,683          | 3,200         | 4,013         | 5,141         | 6,459         | 7,017          |
|     |   | Lumens per Watt | 75.6          | 73.8          | 69.1          | 65.9          | 61.3           | 58.9           | 87.9          | 85.7          | 80.3          | 77.5          | 64.2           |
|     |   | BUG Rating      | B0-U0-G0      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1       | B1-U0-G1       | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2       |
|     | T3 (Type III)   | Lumens          | 1,924         | 2,412         | 3,090         | 4,024         | 4,924          | 5,146          | 4,472         | 5,607         | 7,183         | 9,025         | 9,805          |
|     |   | Lumens per Watt | 105.7         | 103.1         | 96.6          | 92.1          | 85.6           | 82.3           | 122.9         | 119.8         | 112.2         | 109.9         | 89.7           |
|     |   | BUG Rating      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1       | B1-U0-G1       | B1-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       |

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|-----|--|-----------------|---------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|
| 835 | T3-HSS (Type III House Side Shield)                    | Lumens          | 1,388         | 1,740         | 2,229         | 2,903         | 3,552          | 3,713          | 3,226         | 4,045         | 5,182         | 6,511         | 7,073          |
|     |  | Lumens per Watt | 76.3          | 74.4          | 69.7          | 66.4          | 61.8           | 59.4           | 88.6          | 86.4          | 81            | 78.2          | 64.7           |
|     |  | BUG Rating      | B0-U0-G0      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1       | B1-U0-G1       | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       |
|     | T4FT (Type IV Forward Throw)                           | Lumens          | 1,903         | 2,386         | 3,056         | 3,980         | 4,870          | 5,090          | 4,423         | 5,546         | 7,104         | 8,926         | 9,698          |
|     |  | Lumens per Watt | 104.5         | 101.9         | 95.5          | 91.1          | 84.7           | 81.4           | 121.5         | 118.5         | 111           | 107.2         | 88.7           |
|     |  | BUG Rating      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2       | B1-U0-G2       | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B2-U0-G3      | B2-U0-G3       |
|     | T4FT-HSS (Type IV Forward Throw House Side Shield)     | Lumens          | 1,380         | 1,730         | 2,217         | 2,886         | 3,532          | 3,692          | 3,208         | 4,022         | 5,153         | 6,474         | 7,034          |
|     |  | Lumens per Watt | 75.8          | 73.9          | 69.3          | 66.1          | 61.4           | 59.1           | 88.1          | 85.9          | 80.5          | 77.7          | 64.4           |
|     |  | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1       | B1-U0-G1       | B1-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       |
|     | T4W (Type IV Wide)                                     | Lumens          | 1,918         | 2,404         | 3,080         | 4,011         | 4,908          | 5,130          | 4,457         | 5,589         | 7,159         | 8,995         | 9,773          |
|     |  | Lumens per Watt | 105.4         | 102.7         | 96.2          | 91.8          | 85.4           | 82.1           | 122.5         | 119.4         | 111.9         | 108           | 89.4           |
|     |  | BUG Rating      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2       | B1-U0-G2       | B1-U0-G2      | B1-U0-G2      | B2-U0-G2      | B2-U0-G3      | B2-U0-G3       |
|     | T4W-HSS (Type IV Wide House Side Shield)               | Lumens          | 1,390         | 1,742         | 2,232         | 2,906         | 3,557          | 3,717          | 3,230         | 4,050         | 5,188         | 6,519         | 7,082          |
|     |  | Lumens per Watt | 76.3          | 74.5          | 69.7          | 66.5          | 61.9           | 59.5           | 88.7          | 86.5          | 81.1          | 78.3          | 64.8           |
|     |  | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1       | B0-U0-G1       | B0-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       |
|     | SL2 (Type II w/ Spill Control)                         | Lumens          | 1,885         | 2,363         | 3,027         | 3,942         | 4,824          | 5,042          | 4,381         | 5,493         | 7,037         | 8,841         | 9,606          |
|     |  | Lumens per Watt | 103.6         | 101           | 94.6          | 90.2          | 83.9           | 80.7           | 120.4         | 117.4         | 109.9         | 106.1         | 87.9           |
|     |  | BUG Rating      | B1-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2       | B1-U0-G2       | B1-U0-G2      | B1-U0-G2      | B2-U0-G2      | B2-U0-G3      | B2-U0-G3       |
|     | SL2-HSS (Type II w/ Spill Control, House Side Shield)  | Lumens          | 1,527         | 1,915         | 2,453         | 3,194         | 3,909          | 4,086          | 3,550         | 4,451         | 5,702         | 7,165         | 7,784          |
|     |  | Lumens per Watt | 83.9          | 81.8          | 76.7          | 73.1          | 68             | 65.4           | 97.5          | 95.1          | 89.1          | 86            | 71.2           |
|     |  | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1       | B1-U0-G1       | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       |
|     | SL3 (Type III w/ Spill Control)                        | Lumens          | 1,882         | 2,360         | 3,023         | 3,937         | 4,818          | 5,036          | 4,376         | 5,486         | 7,028         | 8,831         | 9,594          |
|     |  | Lumens per Watt | 103.4         | 100.9         | 94.5          | 90.1          | 83.8           | 80.6           | 120.2         | 117.2         | 109.8         | 106           | 87.8           |
|     |  | BUG Rating      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2       | B1-U0-G2       | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G3      | B2-U0-G3       |
|     | SL3-HSS (Type III w/ Spill Control, House Side Shield) | Lumens          | 1,570         | 1,968         | 2,521         | 3,283         | 4,018          | 4,199          | 3,649         | 4,575         | 5,860         | 7,363         | 8,000          |
|     |  | Lumens per Watt | 86.2          | 84.1          | 78.8          | 75.1          | 69.9           | 67.2           | 100.2         | 97.7          | 91.6          | 88.4          | 73.2           |
|     |  | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1       | B1-U0-G1       | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       |
|     | SL4 (Type III w/ Spill Control)                        | Lumens          | 1,852         | 2,321         | 2,974         | 3,872         | 4,739          | 4,953          | 4,304         | 5,396         | 6,913         | 8,685         | 9,436          |
|     |  | Lumens per Watt | 101.7         | 99.2          | 92.9          | 88.6          | 82.4           | 79.2           | 118.2         | 115.3         | 108           | 104.3         | 86.3           |
|     |  | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2       | B1-U0-G2       | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G3      | B1-U0-G3       |
|     | SL4-HSS (Type III w/ Spill Control, House Side Shield) | Lumens          | 1,569         | 1,967         | 2,520         | 3,281         | 4,016          | 4,197          | 3,647         | 4,572         | 5,858         | 7,360         | 7,996          |
|     |  | Lumens per Watt | 86.2          | 84.1          | 78.7          | 75.1          | 69.8           | 67.1           | 100.2         | 97.7          | 91.5          | 88.4          | 73.2           |
|     |  | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1       | B1-U0-G1       | B0-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       |

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| CCT | Optics  |                 | 1A<br>(350mA) | 1B<br>(450mA) | 1C<br>(600mA) | 1D<br>(800mA) | 1E<br>(1050mA) | 1F<br>(1200mA) | 2A<br>(350mA) | 2B<br>(450mA) | 2C<br>(600mA) | 2D<br>(800mA) | 2E<br>(1050mA) |
|-----|---|-----------------|---------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|
| 835 | SLR (90° Spill Light Eliminator Right)                        | Lumens          | 1,647         | 2,064         | 2,644         | 3,444         | 4,215          | 4,405          | 3,827         | 4,799         | 6,148         | 7,724         | 8,392          |
|     |   | Lumens per Watt | 90.5          | 88.2          | 82.6          | 78.8          | 73.3           | 70.5           | 105.1         | 102.5         | 96.1          | 92.7          | 76.8           |
|     |   | BUG Rating      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2       | B1-U0-G2       | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G3      | B1-U0-G3       |
|     | SLR-HSS (90° Spill Light Eliminator Right, House Side Shield) | Lumens          | 1,365         | 1,712         | 2,192         | 2,855         | 3,494          | 3,652          | 3,173         | 3,979         | 5,097         | 6,404         | 6,957          |
|     |   | Lumens per Watt | 75            | 73.1          | 68.5          | 65.3          | 60.8           | 58.4           | 87.2          | 85            | 79.6          | 76.9          | 63.7           |
|     |   | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1       | B1-U0-G1       | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       |
|     | SLL (90° Spill Light Eliminator Left)                         | Lumens          | 1,647         | 2,064         | 2,644         | 3,444         | 4,215          | 4,405          | 3,827         | 4,799         | 6,148         | 7,724         | 8,392          |
|     |   | Lumens per Watt | 90.5          | 88.2          | 82.6          | 78.8          | 73.3           | 70.5           | 105.1         | 102.5         | 96.1          | 92.7          | 76.8           |
|     |   | BUG Rating      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2       | B1-U0-G2       | B1-U0-G2      | B1-U0-G2      | B1-U0-G2      | B1-U0-G3      | B1-U0-G3       |
|     | SLL-HSS (90° Spill Light Eliminator Left, House Side Shield)  | Lumens          | 1,365         | 1,712         | 2,192         | 2,855         | 3,494          | 3,652          | 3,173         | 3,979         | 5,097         | 6,404         | 6,957          |
|     |   | Lumens per Watt | 75            | 73.1          | 68.5          | 65.3          | 60.8           | 58.4           | 87.2          | 85            | 79.6          | 76.9          | 63.7           |
|     |   | BUG Rating      | B0-U0-G1      | B0-U0-G1      | B0-U0-G1      | B1-U0-G1      | B1-U0-G1       | B1-U0-G1       | B1-U0-G1      | B1-U0-G1      | B1-U0-G2      | B1-U0-G2      | B1-U0-G2       |

## SA Performance

| CCT   | Optics                             |                 | 1 Square | 2 Square |
|-------|------------------------------------|-----------------|----------|----------|
| Amber | T1 (TYPE I)                        | Lumens          | 747      | 1,736    |
|       |                                    | Lumens per Watt | 37       | 43       |
|       |                                    | BUG Rating      | B1-U0-G1 | B1-U0-G1 |
|       | T2 (TYPE II)                       | Lumens          | 749      | 1,741    |
|       |                                    | Lumens per Watt | 37       | 43       |
|       |                                    | BUG Rating      | B0-U0-G0 | B0-U0-G1 |
|       | T2-HSS (TYPE II HOUSE SIDE SHIELD) | Lumens          | 552      | 1,284    |
|       |                                    | Lumens per Watt | 28       | 32       |
|       |                                    | BUG Rating      | B0-U0-G0 | B0-U0-G0 |
|       | T3 (TYPE III)                      | Lumens          | 781      | 1,817    |
|       |                                    | Lumens per Watt | 39       | 45       |
|       |                                    | BUG Rating      | B0-U0-G0 | B1-U0-G1 |

| CCT   | Optics   |                 | 1 Square | 2 Square |
|-------|--|-----------------|----------|----------|
| Amber | T3-HSS (TYPE III HOUSE SIDE SHIELD)                | Lumens          | 564      | 1,312    |
|       |  | Lumens per Watt | 28       | 33       |
|       |  | BUG Rating      | B0-U0-G0 | B0-U0-G0 |
|       | T4FT (TYPE IV FORWARD THROW)                       | Lumens          | 760      | 1,768    |
|       |  | Lumens per Watt | 38       | 44       |
|       |  | BUG Rating      | B0-U0-G1 | B0-U0-G1 |
|       | T4FT-HSS (TYPE IV FORWARD THROW HOUSE SIDE SHIELD) | Lumens          | 563      | 1,308    |
|       |  | Lumens per Watt | 28       | 33       |
|       |  | BUG Rating      | B0-U0-G0 | B0-U0-G1 |
|       | T4W (TYPE IV WIDE)                                 | Lumens          | 776      | 1,804    |
|       |  | Lumens per Watt | 39       | 45       |
|       |  | BUG Rating      | B0-U0-G1 | B1-U0-G1 |

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| CCT   | Optics  |                 | 1 Square | 2 Square |
|-------|---|-----------------|----------|----------|
| Amber | T4W-HSS<br>(TYPE IV WIDE<br>HOUSE SIDE<br>SHIELD)                   | Lumens          | 559      | 1,299    |
|       |   | Lumens per Watt | 28       | 32       |
|       |   | BUG Rating      | B0-U0-G0 | B0-U0-G1 |
|       | SL2 (TYPE<br>II W/ SPILL<br>CONTROL)                                | Lumens          | 773      | 1,797    |
|       |   | Lumens per Watt | 38       | 45       |
|       |   | BUG Rating      | B0-U0-G1 | B1-U0-G1 |
|       | SL2-HSS<br>(TYPE II W/<br>SPILL CON-<br>TROL, HOUSE<br>SIDE SHIELD) | Lumens          | 606      | 1,408    |
|       |   | Lumens per Watt | 30       | 35       |
|       |   | BUG Rating      | B0-U0-G0 | B0-U0-G1 |
|       | SL3 (TYPE<br>III W/ SPILL<br>CONTROL)                               | Lumens          | 758      | 1,762    |
|       |   | Lumens per Watt | 38       | 44       |
|       |   | BUG Rating      | B0-U0-G1 | B0-U0-G1 |

| CCT   | Optics   |                 | 1 Square | 2 Square |
|-------|--|-----------------|----------|----------|
| Amber | SL3-HSS<br>(TYPE III W/<br>SPILL CON-<br>TROL, HOUSE<br>SIDE SHIELD) | Lumens          | 636      | 1,480    |
|       |  | Lumens per Watt | 32       | 37       |
|       |  | BUG Rating      | B0-U0-G0 | B0-U0-G1 |
|       | SL4 (TYPE<br>III W/ SPILL<br>CONTROL)                                | Lumens          | 748      | 1,740    |
|       |  | Lumens per Watt | 37       | 43       |
|       |  | BUG Rating      | B0-U0-G1 | B0-U0-G1 |
|       | SL4-HSS<br>(TYPE III W/<br>SPILL CON-<br>TROL, HOUSE<br>SIDE SHIELD) | Lumens          | 629      | 1,463    |
|       |  | Lumens per Watt | 31       | 36       |
|       |  | BUG Rating      | B0-U0-G1 | B0-U0-G1 |

## Energy and Performance Data

## Lumen Multiplier

| Ambient Temperature | Lumen Multiplier |
|---------------------|------------------|
| 0°C                 | 1.02             |
| 10°C                | 1.01             |
| 25°C                | 1.00             |
| 40°C                | 0.99             |
| 50°C                | 0.97             |

## Lumen Maintenance (TM-21)

| Ambient Temperature | 25,000 hours* | 50,000 hours* | 60,000 hours* | 100,000 hours** | Theoretical L70 (Hours)** |
|---------------------|---------------|---------------|---------------|-----------------|---------------------------|
| 25°C                | 94.4%         | 90.4%         | 89.0%         | 83.0%           | >199,000                  |
| 40°C                | 94.6%         | 90.9%         | 89.4%         | 83.9%           | >212,000                  |
| 50°C                | 91.8%         | 87.0%         | 85.2%         | 78.2%           | >151,000                  |

## NOTES:

\* Supported by IESTM-21 standards

\*\* Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, that explains proper use of IES TM-21 and LM-80.

Control Options

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This feature is offered standard with 0-10V dimming driver(s).

Photocontrol Options

Optional button-type photocontrol (BPC) and photocontrol receptacles (PR and PR7) provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PR7 receptacle.

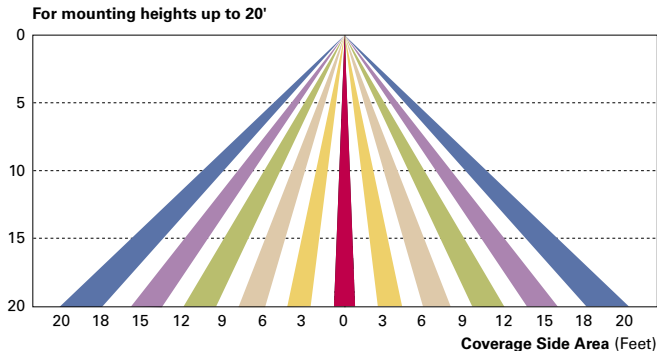
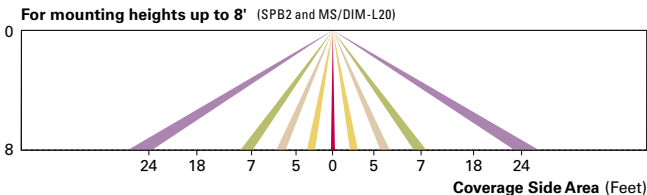
After Hours Dim (AHD)

This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

Dimming Occupancy Sensor (SPB and MS/DIM)

These sensors are factory installed in the luminaire to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

| SPB sensor finish matched to luminaire finish |                   |                   |
|---|-------------------|-------------------|
| Luminaire Finish                              |                   | SPB Sensor Finish |
| WH  | White             | White             |
| BK  | Black             | Black             |
| GM  | Graphite Metallic | Black             |
| BZ  | Bronze            | Bronze            |
| AP  | Gray              | Gray              |
| DP  | Dark Platinum     | Gray              |



WaveLinX Wireless Control and Monitoring System (ZD, ZW)

Operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. WaveLinX and WaveLinX Lite sensors utilize the Zhaga Book 18 compliant 4-PIN receptacle (ZD or ZW), while the WOLC control module utilizes a 7-PIN receptacle. ZW option provides 4-PIN receptacle and control module to enable future installation of WaveLinX sensors. ZD option provides 4-PIN receptacle and sensor-ready (SR) driver to enable future installation of WaveLinX sensors, power monitoring, and advanced functionality. WaveLinX (SWPD4 to SWPD5) outdoor wireless sensors offer passive infrared (PIR) occupancy and photocell for closed loop daylight harvesting, and can be factory or field-installed. Sensors are factory preset to dim down to 50% after 15 minutes of no motion detected. Two lens options are available for mounting heights of 7' to 40'. Use the WaveLinX mobile application for set-up and configuration. At least one Wireless Area Controller (WAC) is required for full functionality and remote communication (including adjustment of any factory pre-sets).

WaveLinX Wireless Outdoor Lighting Control Module (WOLC-7P-10A)

The 7-pin wireless outdoor lighting control module enables WaveLinX to control outdoor area, site and flood lighting. WaveLinX controls outdoor lighting using schedules to provide ON, OFF and dimming controls based on astronomic or time schedules based on a 7 day week