LED Dimming Option

For use with Cree Edge™ Series, LEDway® Series, 228 Series™, 304 Series™, OL Series™, XSP Series, XSP-HO Series, CPY Series, OSQ Series, OSQ-HO Series, RSW™ Series and VG Series Luminaires

Description:
Our 0-10V dimming option provides access to multiple drive currents and provides the flexibility to utilize combinations of these currents to optimize lumen output and energy savings needs. As the product is dimmed all LEDs are operated at the same current for longevity and lumen maintenance.

Unlike traditional source technologies, LED performance improves when dimmed in terms of efficacy, longevity and lumen maintenance. This powerful combination allows for the selection luminaires capable of delivering high levels of sustainable illumination performance when desired, but with the ability to be dimmed to deliver lower levels of illumination when appropriate with even greater energy savings.

If dimming leads remain open (factory shipped), luminaire will run at full power.

The 0-10V dimming control interface is compliant with the IEC EN 60929 Annex E which establishes controls for fluorescent products.

Dimming Availability

<table>
<thead>
<tr>
<th>LEDway® Luminaires – Requires DIM Option</th>
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<tbody>
<tr>
<td>Drive Current</td>
</tr>
<tr>
<td>---------------</td>
</tr>
<tr>
<td>350mA</td>
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<tr>
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<td>525mA</td>
</tr>
<tr>
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</tr>
<tr>
<td>700mA</td>
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<table>
<thead>
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<th>228 Series™ Luminaires – Requires DIM Option</th>
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<tr>
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<tr>
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<tr>
<td>700mA</td>
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<table>
<thead>
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<tr>
<td></td>
</tr>
<tr>
<td>350mA</td>
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*Marked spacing required
LED Dimming Option

### Cree Edge™ Series Luminaires – Requires DIM Option

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<th>Drive Current</th>
<th>Voltage</th>
<th>Area/Flood</th>
<th>High Output</th>
<th>Round Area/ Flood</th>
<th>Canopy</th>
<th>Parking</th>
<th>Security</th>
<th>Transportation</th>
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<td>Post Top Mounts</td>
<td>Side Arm Mount</td>
<td>All Mounts</td>
<td>All Mounts</td>
<td>All Mounts</td>
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<td>120-277</td>
<td>40-240 LED</td>
<td>40-240 LED</td>
<td>20-60 LED</td>
<td>N/A</td>
<td>40-120 LED</td>
<td>40-240 LED</td>
<td>40-100 LED</td>
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<tr>
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<td>347-480</td>
<td>20-240 LED</td>
<td>20-240 LED</td>
<td>20-60 LED</td>
<td>N/A</td>
<td>40-120 LED</td>
<td>20-240 LED</td>
<td>40-100 LED</td>
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<td>40-160 LED</td>
<td>20-60 LED</td>
<td>N/A</td>
<td>40-120 LED</td>
<td>40-160 LED</td>
<td>40-100 LED</td>
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<td>20-160 LED</td>
<td>40-160 LED</td>
<td>20-60 LED</td>
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<td>N/A</td>
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<td>120-240 LED</td>
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<td>N/A</td>
<td>N/A</td>
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1. P (Photocell) option not available on 480V
2. Not available with F (Fuse) option
3. P (Photocell) option not available

### OL Series™ Linear Flood – Requires DIM Option

<table>
<thead>
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<th>Voltage</th>
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<td>14-112 LED</td>
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<td>347-480</td>
<td>14-112 LED</td>
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<td>700mA</td>
<td>120-277</td>
<td>14-112 LED</td>
</tr>
<tr>
<td></td>
<td>347-480</td>
<td>14-112 LED</td>
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</table>

### 0-10V Dimming Multipliers – 350mA Drive Current

**Note:** For use with products when 350mA drive current is specified. Specified drive current represents the maximum drive current that will be available with dimming option. Specifying the maximum allowed drive current for your product will provide the greatest range of dimming. Multipliers are for estimating purposes only. Check actual spec sheet data where available.

<table>
<thead>
<tr>
<th>120-277V</th>
<th>Drive Current (mA)</th>
<th>System Watts Multiplier</th>
<th>Lumen Multiplier</th>
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<td>0-10V</td>
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<td></td>
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</tr>
<tr>
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<td>0.24</td>
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<td>0.28</td>
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<td>163</td>
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<td>175</td>
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<td>3</td>
<td>238</td>
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<td>0.85</td>
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<td>3.8</td>
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<table>
<thead>
<tr>
<th>347-480V</th>
<th>Drive Current (mA)</th>
<th>System Watts Multiplier</th>
<th>Lumen Multiplier</th>
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<tbody>
<tr>
<td>0-10V</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>/= 1.0</td>
<td>75</td>
<td>0.25</td>
<td>0.24</td>
</tr>
<tr>
<td>1.1</td>
<td>88</td>
<td>0.28</td>
<td>0.28</td>
</tr>
<tr>
<td>1.6</td>
<td>113</td>
<td>0.35</td>
<td>0.36</td>
</tr>
<tr>
<td>1.9</td>
<td>138</td>
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<td>0.43</td>
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<td>0.81</td>
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<td>0.91</td>
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LED Dimming Options

0-10V Dimming Multipliers – 525mA Drive Current

Note: For use with products when 525mA drive current is specified. Specified drive current represents the maximum drive current that will be available with dimming option. Specifying the maximum allowed drive current for your product will provide the greatest range of dimming. Multipliers are for estimating purposes only. Check actual spec sheet data where available.

<table>
<thead>
<tr>
<th>120-277V</th>
<th>347-480V</th>
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</thead>
<tbody>
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<td><strong>0-10V</strong></td>
<td><strong>0-10V</strong></td>
</tr>
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<td>Drive Current (mA)</td>
<td>System Watts Multiplier</td>
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<tr>
<td>7.4</td>
<td>475</td>
</tr>
<tr>
<td>&gt;= 8.2</td>
<td>525</td>
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</table>

0-10V Dimming Multipliers – 700mA Drive Current

Note: For use with products when 700mA drive current is specified. Specified drive current represents the maximum drive current that will be available with dimming option. Specifying the maximum allowed drive current for your product will provide the greatest range of dimming. Multipliers are for estimating purposes only. Check actual spec sheet data where available.

<table>
<thead>
<tr>
<th>120-277V</th>
<th>347-480V</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>0-10V</strong></td>
<td><strong>0-10V</strong></td>
</tr>
<tr>
<td>Drive Current (mA)</td>
<td>System Watts Multiplier</td>
</tr>
<tr>
<td>&lt;= 1.1</td>
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</tr>
<tr>
<td>1.7</td>
<td>125</td>
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<td>2.8</td>
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<tr>
<td>3.4</td>
<td>275</td>
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<td>3.9</td>
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<tr>
<td>4.2</td>
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<tr>
<td>5.1</td>
<td>425</td>
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<td>5.6</td>
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**0-10V Dimming Multipliers – 1000mA Drive Current**

Note: For use with products when 900mA or 1000mA drive current is specified. Specified drive current represents the maximum drive current that will be available with dimming option. Specifying the maximum allowed drive current for your product will provide the greatest range of dimming. Multipliers are for estimating purposes only. Check actual spec sheet data where available.

### 120-277V

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<th>System Watts Multiplier</th>
<th>Lumen Multiplier</th>
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</thead>
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<td>0.07</td>
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<td>2.9</td>
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<td>0.29</td>
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<tr>
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<tr>
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<tr>
<td>4.0</td>
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<td>0.42</td>
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### 347-480V

<table>
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<th>System Watts Multiplier</th>
<th>Lumen Multiplier</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;= 1.0</td>
<td>105</td>
<td>0.07</td>
</tr>
<tr>
<td>1.4</td>
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<td>175</td>
<td>0.13</td>
</tr>
<tr>
<td>1.7</td>
<td>200</td>
<td>0.15</td>
</tr>
<tr>
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<td>250</td>
<td>0.20</td>
</tr>
<tr>
<td>2.5</td>
<td>300</td>
<td>0.24</td>
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<tr>
<td>2.9</td>
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<tr>
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<td>400</td>
<td>0.33</td>
</tr>
<tr>
<td>3.6</td>
<td>450</td>
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</tr>
<tr>
<td>4.0</td>
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<td>0.42</td>
</tr>
<tr>
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<td>525</td>
<td>0.44</td>
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<tr>
<td>5.4</td>
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<tr>
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<tr>
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<td>800</td>
<td>0.69</td>
</tr>
<tr>
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<td>0.74</td>
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<tr>
<td>6.9</td>
<td>900</td>
<td>0.78</td>
</tr>
<tr>
<td>7.3</td>
<td>950</td>
<td>0.83</td>
</tr>
<tr>
<td>7.6</td>
<td>1000</td>
<td>0.87</td>
</tr>
<tr>
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**0-10V Dimming Multipliers**

Multipliers are for estimating purposes only.

### VG Version A – Requires DIM Option

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<thead>
<tr>
<th>Input Power Designator</th>
<th>Voltage</th>
<th>All Mounts</th>
</tr>
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<tbody>
<tr>
<td>A</td>
<td>120-277</td>
<td>Available</td>
</tr>
<tr>
<td></td>
<td>347-480</td>
<td>Available</td>
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<table>
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<th>0-10V</th>
<th>System Watts Multiplier</th>
<th>Lumen Multiplier</th>
</tr>
</thead>
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<td>0.23</td>
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<tr>
<td>2</td>
<td>0.27</td>
<td>0.27</td>
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LED Dimming Option

CPY250® 0-10V Dimming Multipliers

Multipliers are for estimating purposes only.

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**CPY250 Series – Input Power Designator A**

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LED Dimming Option

0-10V Dimming Multipliers
Multipliers are for estimating purposes only.

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0-10V Dimming Multipliers
Multipliers are for estimating purposes only.

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### XSP Series 0-10V Dimming Multipliers
Multipliers are for estimating purposes only.

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## LED Dimming Option

### XSP Series 0-10V Dimming Multipliers

Multipliers are for estimating purposes only.

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LED Dimming Option

0-10V Dimming Multipliers

Multipliers are for estimating purposes only.

### XSP High Output Series

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<th>Voltage</th>
<th>Availability</th>
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### XSP™ High Output Luminaires

#### 0-10V

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### XSP2™ High Output Luminaires

#### 0-10V

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### XSPR™ High Output Luminaires

#### 0-10V

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### Description:

Cree’s 0-10V dimming is included standard with each RSW streetlight through the NEMA 7-Pin receptacle (ANSI C136.41 compatible controls by others).

Unlike traditional source technologies, LED performance improves when dimmed in terms of efficacy, longevity and lumen maintenance. This powerful combination allows for the selection of luminaires capable of delivering high levels of sustainable illumination performance when desired, but with the ability to be dimmed to deliver lower levels of illumination when appropriate with even greater energy savings.

### Dimming Availability

#### RSW Small & Medium Series Luminaires

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#### XSP™ High Output Luminaires

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#### XSP2™ High Output Luminaires

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</thead>
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#### XSPR™ High Output Luminaires

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### 0-10V Dimming Multipliers

#### RSW™ Street Luminaires – 3L

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LED Dimming Option

**Description:**
Cree’s 0-10V dimming is included standard with each RSW streetlight through the NEMA 7-Pin receptacle (ANSI C136.41 compatible controls by others).
Unlike traditional source technologies, LED performance improves when dimmed in terms of efficacy, longevity and lumen maintenance. This powerful combination allows for the selection of luminaires capable of delivering high levels of sustainable illumination performance when desired, but with the ability to be dimmed to deliver lower levels of illumination when appropriate with even greater energy savings.

### RSW Large Series Luminaires

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### RSW Large Series Luminaires - 14L Dim Curves for Full Power and Q Settings

#### 30K7

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#### 40K7/50K7

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### RSWL - 14L Dim Curves for X Settings - 30K7

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### RSWL - 14L Dim Curves for X Settings - 40K7/50K7

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</tbody>
</table>
## LED Dimming Option

**Description:**
Cree’s 0-10V dimming is included standard with each OSQ-HO luminaire through the cord and through the NEMA 7-Pin receptacle (ANSI C136.41 compatible controls by others). Unlike traditional source technologies, LED performance improves when dimmed in terms of efficacy, longevity and lumen maintenance. This powerful combination allows for the selection of luminaries capable of delivering high levels of sustainable illumination performance when desired, but with the ability to be dimmed to deliver lower levels of illumination when appropriate with even greater energy savings.

### Dimming Availability

<table>
<thead>
<tr>
<th>OSQ-HO Series Luminaires</th>
<th>Lumen Package</th>
<th>Availability</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>40L</td>
<td>Standard</td>
</tr>
<tr>
<td></td>
<td>50L</td>
<td>Standard</td>
</tr>
<tr>
<td></td>
<td>65L</td>
<td>Standard</td>
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### 0-10V Dimming Multipliers

#### OSQ-HO Area Luminaires – 40L/50L

<table>
<thead>
<tr>
<th>0-10V</th>
<th>System Watts Multiplier</th>
<th>Lumen Multiplier</th>
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<tbody>
<tr>
<td>&lt;= 1.0</td>
<td>0.11</td>
<td>0.13</td>
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<tr>
<td>1.7</td>
<td>0.17</td>
<td>0.20</td>
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<tr>
<td>2.1</td>
<td>0.21</td>
<td>0.25</td>
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<tr>
<td>2.4</td>
<td>0.25</td>
<td>0.30</td>
</tr>
<tr>
<td>3.0</td>
<td>0.32</td>
<td>0.39</td>
</tr>
<tr>
<td>3.5</td>
<td>0.39</td>
<td>0.46</td>
</tr>
<tr>
<td>3.9</td>
<td>0.44</td>
<td>0.51</td>
</tr>
<tr>
<td>4.2</td>
<td>0.49</td>
<td>0.56</td>
</tr>
<tr>
<td>4.8</td>
<td>0.55</td>
<td>0.63</td>
</tr>
<tr>
<td>5.3</td>
<td>0.62</td>
<td>0.70</td>
</tr>
<tr>
<td>5.8</td>
<td>0.70</td>
<td>0.76</td>
</tr>
<tr>
<td>6.3</td>
<td>0.77</td>
<td>0.82</td>
</tr>
<tr>
<td>6.9</td>
<td>0.85</td>
<td>0.89</td>
</tr>
<tr>
<td>7.2</td>
<td>0.90</td>
<td>0.92</td>
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<tr>
<td>7.6</td>
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<td>&gt;= 8.0</td>
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#### OSQ-HO Area Luminaires – 65L

<table>
<thead>
<tr>
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<tbody>
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<tr>
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<td>0.20</td>
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<tr>
<td>2.1</td>
<td>0.21</td>
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<tr>
<td>2.5</td>
<td>0.25</td>
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<tr>
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<td>0.96</td>
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<tr>
<td>&gt;= 9.8</td>
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</tbody>
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CA RESIDENTS WARNING: Cancer and Reproductive Harm – www.p65warnings.ca.gov

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