### FEATURES
- Integral Battery Backup Option
- 360° Light Distribution
- RGBW or Static White Luminous Front Option
- IES Type I, II, III & IV Distributions
- Wall Graze, Spot and Pencil Distributions
- Multiple Fascia Options and Finishes
- 0-10V dimming
- IP-66 Housing & Optical System
- 120-277, 347 and 480V
- Programmable Occupancy Sensor & Wireless Control Options

### JACKETS
- Premium Colors
- Standard Colors
- Dark Bronze
- Graphite
- Matte Aluminum
- Metallic Bronze
- Medium Grey
- Titanium
- Verde Blue
- Weathered Bronze
- Arctic White

### BASE HOUSING FINISH
- Antique Green
- Black
- Matte Black
- Corten
- Dark Bronze
- Dark Green
- Graphite
- Light Grey
- Matte Aluminum
- Premium Colors
- Seafoam
- Shamrock
- Salt and Pepper
- Weathered Copper
- RAL
- Provide a RAL 4 digit color number
- CUSTOM
- Please provide color chip for
- COLOR

### FASCIA FORM
- Flat
- Radius/Curved
- Triangle/Wedge
- Rounded Edge
- Circle/Curved
- Cylinder Balanced
- Cylinder Tall
- Custom Building Material Mount

### CONTROL OPTIONS
- Universal Button Photocell
- Programmable Occupancy Sensor
- SiteSync Wireless

### OPTIONS
- Battery Backup Unit -20°C
- Single Fuse (120, 277, 347)
- Double Fuse (208, 240, 480)

### LIGHTING SERIES – CY2

#### ORDERING CODE

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
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<tbody>
<tr>
<td>Series-Output</td>
<td>CCT/CRI</td>
<td>Model</td>
<td>Main Distribution</td>
<td>Secondary Distribution</td>
<td>Voltage</td>
<td>Housing Finish</td>
<td>Fascia Form</td>
<td>Luminous Front</td>
<td>Fascia Panel</td>
<td>Control Options</td>
<td>Options</td>
</tr>
</tbody>
</table>

**SECONsARY DISTRIBUTION (Up, Sides)**
- 2D: Type 2 Diffused
- 3D: Type 3 Diffused
- 4D: Type 4 Diffused

* PB distribution is available for 90/10 and 70/10/10/10 models only. Not all combinations are recommended. See Distribution Matrix on page 2 for restrictions.

**VOLTAGE**
- UNV: 120-277V
- 347: 347V
- 480: 480V

**BASE HOUSING FINISH**
- AGN: Antique Green
- BL: Black
- BLT: Matte Black
- CRT: Corten
- DB: Dark Bronze
- DGN: Dark Green
- GT: Graphite
- LG: Light Grey
- MAL: Matte Aluminum
- MDB: Metallic Bronze
- MG: Medium Grey
- TT: Titanium
- VBU: Verde Blue
- WDB: Weathered Bronze
- WH: Arctic White

**Premium Colors**
- SPM: Seafoam
- SHK: Shamrock
- SPP: Salt and Pepper
- WCP: Weathered Copper

**FASCIA FORM**
- F: Flat
- R: Radius/Curved
- T: Triangle/Wedge
- E: Rounded Edge
- C: Circle/Curved
- CB: Cylinder Balanced
- CT: Cylinder Tall
- CBM: Custom Building Material Mount

**LUMINOUS FRONT**
- BLANK: Standard None
- RGBW: RGBW Luminous Front
- LFSW: Static White Luminous Front
- RGBW and LFSW luminous fronts are only available with open, four square and perforated fascia panels

**FASCIA PANEL**
- FPP: Full Panel Painted
- FPS: Full Panel Stainless Steel
- FPC: Full Panel Copper
- OPP: Open Panel Painted
- OPS: Open Panel Stainless Steel
- OPC: Open Panel Copper

### MAIN DISTRIBUTION (Down)
- 1: IES Type I
- 2: IES Type II
- 3: IES Type III
- 4: IES Type IV
- SP: 15° Spot/Column
- WG: 60° Wall Graze
- 1D: Type 1 Diffused
- 2D: Type 2 Diffused
- 3D: Type 3 Diffused
- 4D: Type 4 Diffused

### SECONDARY DISTRIBUTION (Up, Sides)
- 1: IES Type I
- 2: IES Type II
- 3: IES Type III
- 4: IES Type IV
- SP: 15° Spot/Column
- WG: 60° Wall Graze
- PB*: Pencil Beam
- 1D: Type 1 Diffused

* PB distribution is available for 90/10 and 70/10/10/10 models only. Not all combinations are recommended. See Distribution Matrix on page 2 for restrictions.
Cypher™ – CY2 Pedestrian Scale

Distribution Matrix

<table>
<thead>
<tr>
<th>FASCIA</th>
<th>DISTRIBUTION</th>
<th>TYPE</th>
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<tbody>
<tr>
<td></td>
<td>Down Only</td>
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<tr>
<td></td>
<td>50 Down 50 Up</td>
<td>2</td>
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<tr>
<td></td>
<td>90 Down 10 Up</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>25/25/25/25 Split</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>70 Down 10/10/10 Split</td>
<td>5</td>
</tr>
</tbody>
</table>

- Window/Options
- Flat*
- Radius Curve R
- Cylinder Balanced CB
- Cylinder Tall CT
- Triangle Wedge T
- Rounded Edge*
- Circle/ Curved C
- Ghost

- ADA compliant for use in low mounting height applications (80 inches or less)
- 2 Down/Up distributions must match
- 4 Down/Up/Side distributions must match
- 5 Top/Side distributions must match

Contact factory for custom distributions
<table>
<thead>
<tr>
<th>LUMINAIRE PERFORMANCE</th>
<th>Bright White (5000K)</th>
<th>Neutral White (4000K)</th>
<th>Warm White (3000K)</th>
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<tbody>
<tr>
<td>Nominal Output (Lm)</td>
<td>Delivered Lumens</td>
<td>Efficacy (Lm/W)</td>
<td>BUG Rating</td>
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<tr>
<td>Average System Wattage</td>
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</tr>
<tr>
<td>Distribution</td>
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<td>Type 3</td>
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<td>Type 4</td>
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<td>Wall Graze</td>
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<td>107 2 0 0</td>
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<td>Spot/Column</td>
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<td>91 2 0 0</td>
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<td>Spot/Column</td>
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<td>Wall Graze</td>
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<td>Spot/Column</td>
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</tr>
</tbody>
</table>

ISOLINE TEMPLATES  15' Mounting Height, 15' Grid Spacing

ARCHITECTURAL AREA LIGHTING
17760 Rowland Street | City of Industry | CA 91748
P 626.968.5666 | F 626.369.2695 | www.aal.net
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### ELECTRICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Lumen Package</th>
<th>System Wattage (W)</th>
<th>Line Voltage</th>
<th>Input</th>
<th>Min. Power Factor</th>
<th>Max THD (%)</th>
<th>Dimming Range</th>
<th>Source/Sink Current (mA)</th>
<th>Absolute voltage range on 0-10v (+) Purple</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>VAC</td>
<td>Hz</td>
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<td>277</td>
<td>347</td>
<td>480</td>
<td>Min.</td>
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<td>0.1</td>
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<td>&gt;0.9</td>
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<td>0.1</td>
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<td>0.2</td>
<td>0.1</td>
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### TM-21 LIFETIME CALCULATION (500mA)

<table>
<thead>
<tr>
<th>Lumen Package</th>
<th>Ambient Environment °C</th>
<th>Projected Lumen Maintenance (Khrs)</th>
<th>Reported L70</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>15 25 50 60 (TM-21) 100</td>
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<tr>
<td>4,500</td>
<td>25</td>
<td>95% 94% 90% 89% 83% &gt;60Khrs.</td>
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</tr>
<tr>
<td></td>
<td>40</td>
<td>99% 91% 84% 82% 73%</td>
<td></td>
</tr>
</tbody>
</table>
HOUSING
- Main housing shroud shall be of fabricated 5052-H32 aluminum alloy
- Housing mounting interface shall have a stamped silicone gasket.
- Luminaire housing shall be free of any visible heat fins, hardware or fasteners.
- Bracketry and hardware shall be stainless steel.

OPTICAL ARRAY
- LEDs shall be mounted to a metal printed circuit board assembly (MCPCB) with a uniform conformal coating over the panel surface and electrical features.
- Optic lenses shall be clear injection molded PMMA acrylic.
- Optical array shall be recessed in order to shield each LED optic across the length of the aperture.
- Optical array shall be sealed for IP66 rating.
- Secondary lens is impact resistant 5/32”
- Luminaire housing shall be free of any visible LED module and electronic components.
- Drivers shall have greater than a 0.9 power factor, less than 20% harmonic distortion, and be suitable for operation in -40°C to 40°C ambient environments.
- Luminaires shall have integral surge protection that shall be UL recognized and have a surge current rating of 10,000 Amps using the industry standard 8/20uSec wave and surge rating of 3721. Surge protection device shall be wired in series.
- Drivers shall be UL recognized.
- Drivers shall not be compatible with current sourcing dimmers, consult factory for current list of known compatible dimming systems approved dimmers include Lutron Diva AVTV, Lutron Nova NFTV and NTFTV.
- Integral battery backup provides emergency path of egress lighting for the required 90 minutes for -20°C ambient environments.

SPECIFICATIONS
- Luminaire shall be capable of operating at 100% brightness in a 40°C environment. Both driver and optical array shall have integral thermal protection that will dim the luminaire upon detection of temperatures in excess of 85°C.
- Luminaires not configured with a control system shall be provided with 0-10 purple and gray dimming leads.
- Drivers shall not be compatible with current sourcing dimmers, consult factory for current list of known compatible dimming systems approved dimmers include Lutron Diva AVTV, Lutron Nova NFTV and NTFTV.
- Photocell is supplied with a photocell to operate the others.
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- Optical array shall be sealed for IP66 rating.
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- Integral battery backup provides emergency path of egress lighting for the required 90 minutes for -20°C ambient environments.
FINISH

• Luminaire finish shall consist of a five stage pretreatment regimen with a polymer primer sealer, oven dry off, and top coated with a thermoset super TGIC polyester powder coat finish.

• Luminaire finish shall meet the AAMA 605.2 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance.

CERTIFICATION

• Luminaire shall be listed with UL for outdoor, wet location use, UL1598, UL 8750 and Canadian CSA Std. C22.2 no.250.

• IP66 rated assembly

• IDA approved, 3000K and warmer CCTs only.


• ANSI C136.31-2010 4G Vibration tested and compliant.

• Complies with “Americans with Disabilities Act” or “ADA” on select versions for low mounting height applications (fixtures extend maximum of 4 inches from wall for mounting heights of 80 inches or less).

WARRANTY / TERMS AND CONDITIONS OF SALE

Download:

Five year limited warranty (for more information visit: http://www.hubbellighting.com/resources/warranty/)

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