Cooper Lighting
by EATON
LED Floodlighting – Problem Solved

**Superior Performance, Compelling Economics**
The UFLD luminaire from Eaton’s Cooper Lighting delivers the energy and maintenance savings of LED technology with the front-end economics of a basic floodlight. When you need an affordable LED solution for a large site or building facade, the UFLD luminaire is your answer.

**Simple yet Adaptable**
The UFLD luminaire is designed to meet a wide variety of floodlighting needs. With its 2-3/8" - 3" O.D. slipfitter, it can be bullhorn- or tenon-mounted for site lighting. Its trunnion mount is ideal for façade or billboard lighting, and can be suspended from a 7/8" threaded rod for ceiling or under-structure applications. A variety of accessories (10kV surge protection, vandal shields, visors and wire guards) allow customization for the most challenging environments.

**Mount. Aim. Done**
The UFLD luminaire is built with the installer in mind. At less than 25 pounds, it is easy to handle, and the slipfitter and trunnion allow for pole, ground and stem mounting. Both mounting options include cast-in angle increments for quick aiming.

**Rugged and Reliable**
The rugged, die-cast housing of the UFLD luminaire is IP66 and 3G vibration rated for exceptional durability, and with its outstanding lumen maintenance, the UFLD luminaire is built for years of maintenance-free service.

Backed by a five-year limited warranty, the UFLD luminaire is the LED answer to your floodlighting needs.
Design Excellence

Construction
- Heavy-duty, die-cast aluminum housing, driver compartment and door
- Separate driver compartment and external die-cast fins maximize heat dissipation
- One-piece silicone gasket seals the door to the fixture
- Housing, driver compartment and LED compartment are IP66 rated
- 3G vibration rated per ANSI C136.31
- UL/cUL listed for wet locations

Electrical
- 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation available
- Integral 6kV surge protection. Class C1 outdoor low compliant per IEEE C62.41
- Optional 10kV/10kA UL 1449 Surge Protector
- 3-PIN and 7-PIN NEMA twistlock photocontrol options
- -40°C to 40°C operating temperature range
- Optional 50°C high ambient available

Optics
- Clear glass tempered lens and full circumference gasket protect optics from damage
- Lumen packages of 9,400 and 14,600 nominal lumens
- 6H x 6V NEMA wide distribution
- Standard 4000K CCT, minimum 70 CRI
- Optional 5700K CCT and 3000K CCT minimum 70 CRI

Mounting
- Integral die-cast aluminum slipfitter - preset to a tilt of 45° (fits 2-3/8" - 3" O.D. tenon)
- 3/16" galvanized steel trunnion mount with a 16/3 SOW cord

Controls
- Optional integrated sensor for occupancy and dimming ensures compliance with new provisions of California Title 24

Finish
- Five-stage super TGIC paint resists extreme weather conditions while providing optimal color and gloss retention. Available in grey, bronze, black or white. RAL and custom colors matches available

Finish
- Five-year warranty

Options / Accessories

Optical Distribution
Optics are precisely designed to shape the 6H x 6V NEMA wide distribution, maximizing efficiency and application spacing.

NEMA 3-PIN Photocontrol Receptacle
Gasketed receptacle for mounting standard 3-PIN NEMA photocontrol.

NEMA 7-PIN Photocontrol Receptacle
ANSI C136.41 compliant. Enables wireless dimming when used with compatible photocontrol.

Optimal Thermal Management
A separate driver compartment and external fins provide optimal thermal management that results in longer fixture and LED life.

Finish
Five-stage super TGIC paint resists extreme weather conditions while providing optimal color and gloss retention. Available in grey, bronze, black or white. RAL and custom colors matches available.
**Fully Adjustable**

**Slipfitter:** Knuckle base supplied with a tooth-lock adjustment that can be adjusted in 5° increments to provide flexibility in aiming the fixture from a variety of surfaces. The slipfitter fits standard 2-3/8" - 3" O.D. tenons. **Trunnion:** 3/16" polyester powder coated galvanized steel trunnion with a 16/3 SOW cord utilizes an interlocking slide adjustment that is locked in place with a set screw.

**Integrated Sensor**
Integrated sensor option provides occupancy and dimming for additional energy savings.

**Top and Side Visors**
Heavy-duty steel top and side visors control glare and spill light.

**Wire Guard**
Heavy-gauge welded construction with corrosion resistant, polyester powder coat finish to protect glass lens from projected objects.

**Vandal Shield**
1/8" thick UV stabilized impact guard protects glass lens when mounted at low levels.
Application and Energy Comparison

Application Excellence
The optical distribution of the UFLD Utility Floodlight is designed to ensure that every lumen produced is distributed for optimal fixture spacing and forward light throw. The result is light distribution that meets and exceeds the HID equivalent fixture with energy savings greater than 75 percent.

Distribution Comparison (UFLD Utility Floodlight LED vs. Wide Distribution Metal Halide Flood) 1

<table>
<thead>
<tr>
<th>Fixture / Source</th>
<th>Mounting Height</th>
<th>Maximum Point (Footcandle)</th>
<th>Forward-Throw Distance (Feet)</th>
<th>Side-to-Side Distance (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>0.1 Fc</td>
<td>0.25 Fc</td>
<td>0.5 Fc</td>
</tr>
<tr>
<td>A25 UFLD LED Utility Floodlight</td>
<td>20'</td>
<td>5.81</td>
<td>95</td>
<td>71</td>
</tr>
<tr>
<td>250W Metal Halide Wide Floodlight</td>
<td>25'</td>
<td>10.19</td>
<td>81</td>
<td>67</td>
</tr>
<tr>
<td>A25 UFLD LED Utility Floodlight</td>
<td>30'</td>
<td>3.69</td>
<td>104</td>
<td>74</td>
</tr>
<tr>
<td>250W Metal Halide Wide Floodlight</td>
<td></td>
<td>6.39</td>
<td>95</td>
<td>72</td>
</tr>
<tr>
<td>A25 UFLD LED Utility Floodlight</td>
<td></td>
<td>2.57</td>
<td>110</td>
<td>76</td>
</tr>
<tr>
<td>250W Metal Halide Wide Floodlight</td>
<td></td>
<td>4.30</td>
<td>104</td>
<td>74</td>
</tr>
<tr>
<td>A40 UFLD LED Utility Floodlight</td>
<td>20'</td>
<td>8.99</td>
<td>107</td>
<td>80</td>
</tr>
<tr>
<td>400W Metal Halide Wide Floodlight</td>
<td></td>
<td>14.96</td>
<td>98</td>
<td>76</td>
</tr>
<tr>
<td>A40 UFLD LED Utility Floodlight</td>
<td></td>
<td>5.74</td>
<td>117</td>
<td>87</td>
</tr>
<tr>
<td>400W Metal Halide Wide Floodlight</td>
<td></td>
<td>9.07</td>
<td>108</td>
<td>85</td>
</tr>
<tr>
<td>A40 UFLD LED Utility Floodlight</td>
<td></td>
<td>3.97</td>
<td>126</td>
<td>91</td>
</tr>
<tr>
<td>400W Metal Halide Wide Floodlight</td>
<td></td>
<td>6.32</td>
<td>118</td>
<td>90</td>
</tr>
</tbody>
</table>

NOTE: 1 45° tilt.

Reduced Energy Consumption
Operating and maintenance costs of a lighting system are dramatically impacted by the specified lamp source and electrical system. Total system input watts and fixture operating life should be the driving considerations when addressing energy consumption and total cost of ownership. Energy savings increase when energy consumption is reduced and maintenance intervals are extended.

Annualized Energy Savings / Cost Comparison

<table>
<thead>
<tr>
<th>Fixture</th>
<th>Hours Day / Year</th>
<th>Fixture Watts</th>
<th>TM-21 Data / HID Life</th>
<th>Cost / Year 1</th>
<th>Annual Fixture Maintenance 2</th>
<th>Annual Fixture Cost</th>
<th>Annual Fixture Cost Savings</th>
<th>Annual Fixture Cost Savings (Percent)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A25 UFLD LED Utility Floodlight</td>
<td>9 / 3,285</td>
<td>85</td>
<td>50,000</td>
<td>$27.92</td>
<td>--</td>
<td>$27.92</td>
<td>$126.68</td>
<td>82%</td>
</tr>
<tr>
<td>250W Metal Halide Wide Floodlight</td>
<td>290</td>
<td>10,000</td>
<td>$36.27</td>
<td>$59.33</td>
<td>$154.60</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A40 UFLD LED Utility Floodlight</td>
<td>9 / 3,285</td>
<td>129</td>
<td>50,000</td>
<td>$42.38</td>
<td>--</td>
<td>$42.38</td>
<td>$137.91</td>
<td>76%</td>
</tr>
<tr>
<td>400W Metal Halide Wide Floodlight</td>
<td>458</td>
<td>20,000</td>
<td>$150.45</td>
<td>$29.83</td>
<td>$180.29</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NOTE: 1 Cost = (Watts x 9 Hours Per Day x 365 Days Per Year / 1000 = Daily Kilowatt hour (kWh). kWh x 0.10 cents/kWh = Cost / Year. 2 Maintenance = number of re-lamps over 48,000 hours (15 years) x lamp cost and replacement labor /15 years.

Energy Savings / Equivalency / Cross Reference Guide

<table>
<thead>
<tr>
<th>UFLD Utility Floodlight Series</th>
<th>HID Replacement Options</th>
<th>Lamp System</th>
<th>HID Wattage</th>
<th>HID Rated Average Life (Hours)</th>
<th>UFLD Utility Floodlight LED Wattage</th>
<th>UFLD Utility Floodlight LED Life (Hours) 1</th>
<th>Energy Savings (Percent)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UFLD-A25</td>
<td>200-250W HID</td>
<td>200W Metal Halide</td>
<td>232W</td>
<td>15,000</td>
<td>85W</td>
<td>&gt; L90 @ 50,000</td>
<td>63%</td>
</tr>
<tr>
<td></td>
<td>200W High Pressure Sodium</td>
<td>240W</td>
<td>24,000</td>
<td></td>
<td></td>
<td></td>
<td>65%</td>
</tr>
<tr>
<td></td>
<td>250W Metal Halide</td>
<td>290W</td>
<td>12,000</td>
<td></td>
<td></td>
<td></td>
<td>71%</td>
</tr>
<tr>
<td></td>
<td>250W High Pressure Sodium</td>
<td>295W</td>
<td>24,000</td>
<td></td>
<td></td>
<td></td>
<td>71%</td>
</tr>
<tr>
<td>UFLD-A40</td>
<td>320-400W HID</td>
<td>320W Metal Halide</td>
<td>377W</td>
<td>20,000</td>
<td>129W</td>
<td>&gt; L90 @ 50,000</td>
<td>66%</td>
</tr>
<tr>
<td></td>
<td>350W Metal Halide</td>
<td>397W</td>
<td>20,000</td>
<td></td>
<td></td>
<td></td>
<td>68%</td>
</tr>
<tr>
<td></td>
<td>400W Metal Halide</td>
<td>458W</td>
<td>20,000</td>
<td></td>
<td></td>
<td></td>
<td>72%</td>
</tr>
<tr>
<td></td>
<td>400W High Pressure Sodium</td>
<td>464W</td>
<td>24,000</td>
<td></td>
<td></td>
<td></td>
<td>72%</td>
</tr>
</tbody>
</table>

NOTE: 1 Lumen maintenance for LED at 40° ambient temperature. TM-21 hour data based on six times number of hours LED chip test time.
Ordering Information

Sample Number: UFLD-A40-D-U-66-S-AP-4N7

<table>
<thead>
<tr>
<th>Product Family</th>
<th>Light Engine</th>
<th>Driver</th>
<th>Voltage</th>
<th>Distribution</th>
<th>Mounting</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>UFLD-Utility LED Floodlight</td>
<td>A25–9,400 Nominal Lumens</td>
<td>E=Non-Dimming</td>
<td>U=120-277V</td>
<td>G-Slipfitter, 2-3/8” - 3” O.D.</td>
<td>AP-Grey (Standard)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(Leads through slipfitter)</td>
<td>BK-Black</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>T-Trunnion</td>
<td>WH-White</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Options (Add as Suffix)

4=NEMA 3-PIN Twistlock Photocontrol Receptacle
4N7=NEMA 7-PIN Twistlock Photocontrol Receptacle
7030=70-50/60Hz, 7060=70-50/60Hz,
10K=10Kv/10KA UL, 1449 Surge Protective Device
HA=50°C High Ambient Temperature
D10=10% Dimming

Accessories (Order Separately)*

FA63=3” O.D. Surface Mount Bracket
OA1223=10Kv/10KA UL, 1449 Surge Protective Device
OA/RA1014=NEMA Photocontrol - 120V
OA/RA1016=NEMA Photocontrol - Multi-Tap
OA/RA1027=NEMA Photocontrol - 480V
OA/RA1201=NEMA Photocontrol - 347V
RAB-XX=Right Angle Pipe Bracket for Slipfitter
SAB-XX=Steel Angle Bracket for Trunnion
TYS-XX=Slipfitter Adapter for 2-3/8”, 3” or 3-1/2” O.D. Tenon
TS2/UFLD-XX=Top and Side Visors
V5/UFLD-Vandal Shield
WG/UFLD=Wire Guard

NOTES:
2. Standard 4000K CCT and minimum 70 CRI. Consult IES file for actual lumen output.
3. Consult factory for driver surge protection values.
4. Must specify 4N7 option.
5. Not recommended for use with ungrounded, delta configured systems.
6. Must order with dimming driver.
7. Extended lead times apply. Use dedicated IES files for 3000K and 5700K when performing layouts. These files are published on the UFLD luminaire product page on the website. Replace XX with color designation. Additional brackets and adaptors available on the poles product page on the website.
8. Not available with tenon mount.
9. Not available with slipfitter mount.
10. Cannot combine TS2 (Top and Side Visor), VS (Vandal Shield) or WG (Wire Guard), limited to one external guard per fixture.

Dimensions

<table>
<thead>
<tr>
<th>Mounting</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slipfitter Mount</td>
<td>8-11/16” [221mm]</td>
</tr>
<tr>
<td></td>
<td>15-15/16” [405mm]</td>
</tr>
<tr>
<td></td>
<td>8-7/16” [215mm]</td>
</tr>
<tr>
<td>Trunnion Mount</td>
<td>8-7/16” [221mm]</td>
</tr>
<tr>
<td></td>
<td>15-15/16” [405mm]</td>
</tr>
<tr>
<td></td>
<td>15-5/16” [386mm]</td>
</tr>
<tr>
<td></td>
<td>12-1/16” [322mm]</td>
</tr>
</tbody>
</table>

Trunnion Mount Drill Pattern

- 3-3/4” [95mm] - 2” [51mm]
- 9-1/8” [232mm] - 7/8” [22mm]
- 1-1/6” [27mm] - 1-1/6” [27mm]
- 8-3/4” [222mm] - 8-3/4” [222mm]

Additional Information

Compliances

UL and cUL Wet Location Listed
LM79/LM80 Compliant
3G Vibration Rated
RoHS Compliant
ISO 9001
DesignLights Consortium® Qualified*

Technical Data (Electronic Driver)

- >0.9 Power Factor
- <20% Total Harmonic Distortion
- 120-277V 50/60Hz, 347V 50Hz and 480V 50Hz
- 40°C (104°F) Ambient Temperature Rating
- 40°C (104°F) Ambient Temperature Rating

EPA (Effective Projected Area - Square Feet)

- 1.25

Shipping Data (Approximate Net Weight)

- 20 lbs. (9.09 kgs.)
