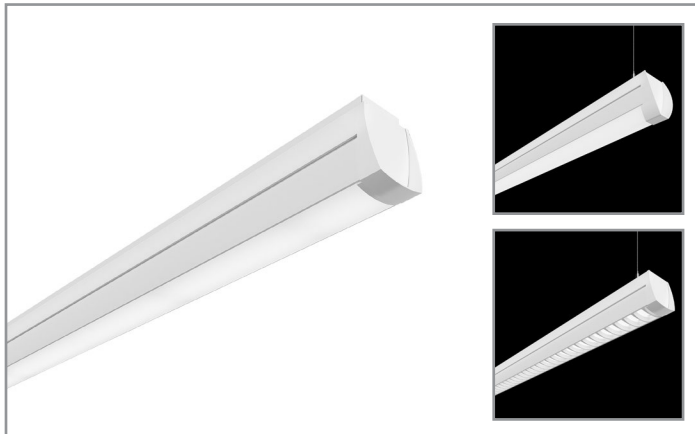


|             |  |           |  |      |  |
|-------------|--|-----------|--|------|--|
| Project     |  | Catalog # |  | Type |  |
| Prepared by |  | Notes     |  | Date |  |



# Corelite

## Hugo - HGL

LED  
Surface Mounted  
Direct / Semi-Direct

### Typical Applications

Office • Education • Healthcare • Hospitality • Retail • Industrial  
• Supermarket

### Interactive Menu

- Order Information [page 2](#)
- Product Specifications [page 2](#)
- Photometric Data [page 3](#)
- Energy and Performance Data [page 4](#)
- Control Systems [page 5](#)
- Product Warranty

### Product Certification



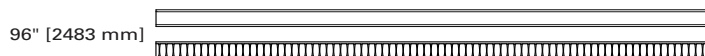
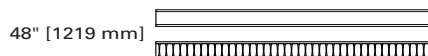
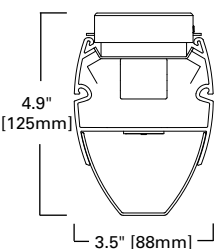
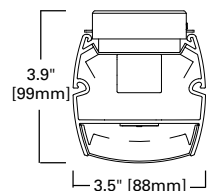
### Product Features



### Top Product Features

- Architectural styling in a small scale profile
- Durable extruded aluminum housing with powder coat paint finish
- Frosted flush and drop lens, baffle, and aisle lighter optic options
- 750 to 2,000 delivered lumens per foot
- Up to 145 Lumens per Watt
- Options to meet Buy American Act requirements

### Dimensions and Fixture Lengths



Order Information

SAMPLE ORDER NUMBER: HGL-S-BF-40L835-1D-UNV-STD-WAA-ILB12-W-SU-24

| Domestic Preference  | Series              | Size    | Shielding/Optics   | Lumen Package Nominal per 4' section   | CRI   | Color Temperature                | Circuiting   | Speciality Wiring  | Input Voltage   |
|--|---------------------|---------|--|--|---|----------------------------------|--|--|---|
| <b>[Blank]</b> =Standard<br><b>BAA</b> =Buy American Act   | HGL=Hugo Linear LED | S=Small | FR=Frosted Lens<br>BF=Baffle with Frosted Diffuser<br>BA=Baffle with Aisle/Stack Optic<br>UF=Frosted Drop lens (12% Uplight) | 30L=3,000 Lms (750 lms/ft)<br>40L=4,000 Lms (1,000 lms/ft)<br>50L=5,000 Lms (1,250 lms/ft)<br>60L=6,000 Lms (1,500 lms/ft)<br>80L=8,000 Lms (2,000 lms/ft) | 8=80 CRI<br>9=90 CRI  | 30=3000K<br>35=3500K<br>40=4000K | 1=1 Circuit  | D=None<br>E=Emergency Circuit<br>S=Secondary Circuit<br>N=Emergency + Secondary Circuit  | UNV=Universal (120V-277V)<br>347=347V   |
| <b>Notes</b><br>Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to <a href="#">DOMESTIC PREFERENCES</a> website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. |                     |         |  | <b>Notes</b><br>Refer to performance table on Page 4 for more detail.<br>80L lumen package not available with 347V "STD" driver.                           | <b>Notes</b><br>Additional lead-time may apply for 930, 935 and 940 configurations. |                                  | <b>Notes</b><br>Refers to wiring in cross section. | <b>Notes</b><br>Select "D" wiring for individual fixtures. Emergency and Secondary circuit section wiring are configured per unit (4ft, 8ft, or 12ft). Secondary circuit not available with integrated sensor options. | <b>Notes</b><br>Integral 347V driver with STD 0-10V option only. Factory supplied 347V remote transformer for all other driver options. |

| Driver/Dimming Options   | Integrated Sensor  | Integral Emergency  | Finish  | Mounting  | Run Length  |
|--|--|---|---|---|---|
| STD=Standard 0-10V (1%-100%)<br>5LT=Fifth Light DALI (1%-100%)<br>LH=Lutron HiLume 1% EcoSystems | WAA=WaveLinx Wireless Integrated Sensor<br>WAB=WaveLinx Lite Wireless Integrated Sensor<br>LWIPD1=Enlighted Wireless Integrated Sensor   | B06=6-watt, 120V-277V Emergency Battery Pack<br>B10=10-watt, 120V-277V Emergency Battery Pack | W=White<br>S=Silver<br>B=Black<br>CC=Custom Color | SU=Ceiling Surface Mount  | 4=4ft.<br>8=8ft.<br>XX=Specify Row Length   |
|  | <b>Notes</b><br>WAA and WAB sensors must be used with "STD" driver. Integrated sensor not available with UF shielding option. Consult factory for emergency circuit option integrated sensor option. SWPD1 has been renamed to WAA, but remains the same sensor. | <b>Notes</b><br>30°C max ambient temperature rating when integral battery selected.           |   | <b>Notes</b><br>Surface mount bracket is pre-installed on luminaire. Consult factory for grid ceiling mounting. | <b>Notes</b><br>12' unit not available for surface mounting. Standard row configurations over 8' consist of 4' and 8' luminaires. |

Product Specifications

Construction

- Compact extruded aluminum housing forming a 3.5" x 3.4" profile
- Gear tray is die-formed 20 gauge galvanized steel and provides access to drivers from above
- Removable top access plates located on both ends for ease of wiring/joining

End Caps

- Die-cast aluminum with decorative cover plate to conceal fasteners
- End cap adds 1" to each end

Lengths

- Available in 4-ft and 8-ft sections
- All sections are modular eliminating the need for starter, joiner and end sections
- Standard row configurations over 8-ft consist of 4-ft and 8-ft luminaires unless otherwise specified

Finish

- Electrostatically applied polyester powder coat paint

Mounting

- Surface mount fixture mounts directly to structure over a 2"x 4" standard electrical box
- All sections are continuously wired with snap quick connects for fast installation
- Refer to installation instructions for various ceiling interface details
- Suspended mount available - see suspended specification sheet

Shielding / Optics

- **FR:** High transmission 0.05" thick frosted acrylic snap-in lens
- **BF:** Continuous injection molded cross baffles with 1" opening for brightness management and frosted acrylic diffuser to shielding direct view of LEDs
- **BA:** Continuous injection molded cross baffles with 1" opening for brightness management and precision aisle/stack linear optic to deliver optimal vertical illumination in aisle applications
- **UF:** High transmission 0.05" thick frosted acrylic snap-in lens that drops below fixture housing for luminous sides and 12% uplight

LED and Light Engine

- LED's are available in 3000K, 3500K, 4000K
- Long-Life LED system coupled with integral electronic drivers to deliver optimal performance
- TM21 life at 60,000 hours up to L85 and calculated L70 exceeds 129,000 hrs
- Standard with 120-277V 0-10V dimming drivers (1% standard)
- Dimming wires come standard but can be capped in the field for standard switched operation
- A single power feed drop supplied as standard.

Integrated Controls

- WaveLink Wireless compatible for IoT capability
- Enlighted sensor compatible for IoT capability
- Fifth Light DALI driver
- WaveLinx Lite compatible for out-of-the-box functionality

Emergency Options

- Optional 120-277V emergency battery available in 12W
- 90-minute backup period for code compliance
- Test switch/indicator button located in side mount attachment
- Approximate delivered lumens multiply the lumens per watt of the desired fixture by the wattage of the emergency battery pack (100 lm/W x 12 = 1200 lumens)
- The combination of integrated sensor and emergency circuit options require an EPC UL924 bypass relay that disables sensor control of emergency fixtures when normal power is lost

Weight

- 4.0 lbs per foot

Compliance

- cULus listed for damp locations
- RoHS compliant
- Tested to IESNA LM-79 and LM-80
- Stated life per TM21 standards
- Can be used for State of California Title 24 high efficacy luminaire
- DesignLights Consortium™ Qualified and classified for DLC Standard and DLC Premium, refer to [www.designlights.org](http://www.designlights.org) for details.

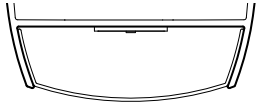
Warranty

- Five year warranty standard. [www.cooperlighting.com/legal](http://www.cooperlighting.com/legal)

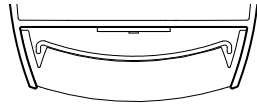
Shielding Options



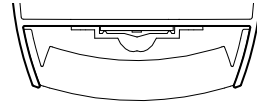
Frosted Lens (FR)



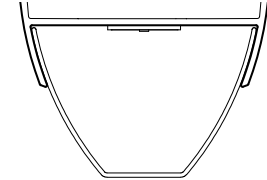
Baffle / Frosted Diffuser (BF)



Baffle / Aisle Optic (BA)



Frosted Drop Lens (UF)

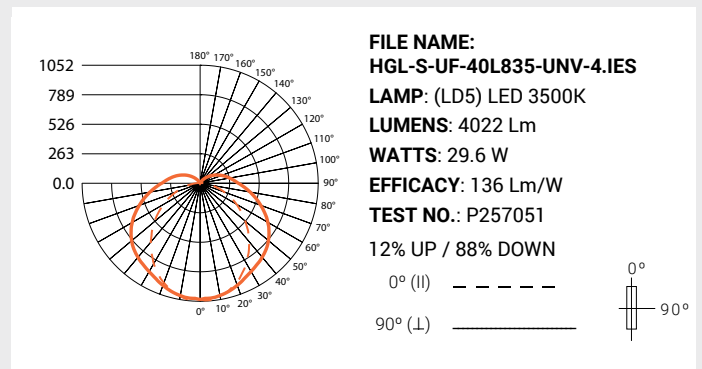
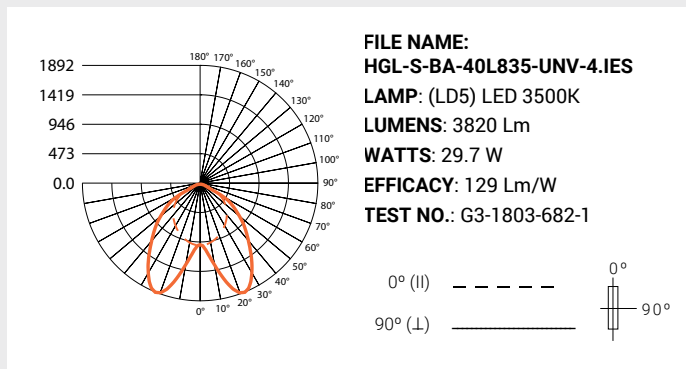
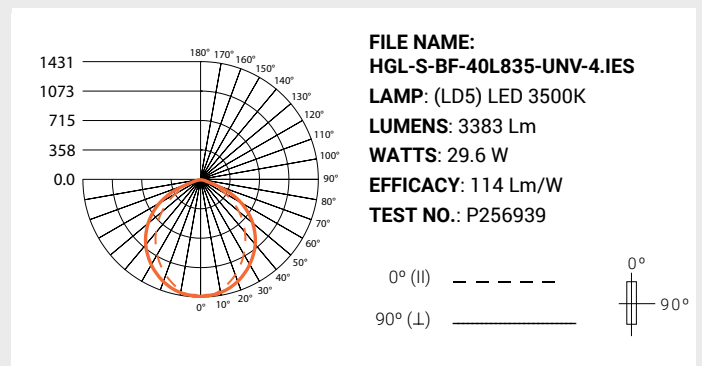
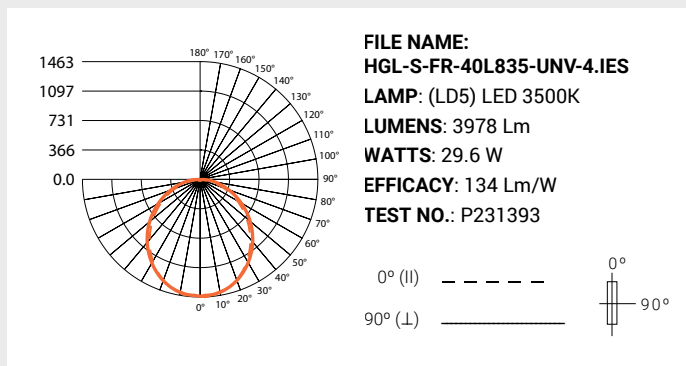


Joints (FR / UF Versions Only)

Powdercoat paint white spring steel joint snaps into housing between fixture sections to eliminate lens gaps and light leaks.

Photometric Data

[View IES files](#)



Note: Refer to IES files for more product data.

**Energy and Performance Data**

| Hugo HGL LED Performance (3500K/80CRI) |                  |                  |        | 4 ft.   |        |                 | 8 ft.*  |        |                 |
|--|------------------|------------------|--------|---------|--------|-----------------|---------|--------|-----------------|
| Series/<br>Distribution                | Lumen<br>Package | Delivered Lumens |        | Wattage |        | Efficacy<br>LPW | Wattage |        | Efficacy<br>LPW |
|  |                  | 4FT              | Per FT | 4FT     | Per FT |                 | 8FT     | Per FT |                 |
| HGL-FR                                 | 30L              | 3150             | 788    | 23      | 5.8    | 136             | 45      | 5.6    | 141             |
|  | 40L              | 3978             | 995    | 30      | 7.4    | 134             | 58      | 7.3    | 137             |
|  | 50L              | 4979             | 1245   | 39      | 9.6    | 129             | 75      | 9.3    | 133             |
|  | 60L              | 6016             | 1504   | 49      | 12.2   | 124             | 95      | 11.8   | 127             |
|  | 80L              | 8131             | 2033   | 71      | 17.7   | 115             | 141     | 17.6   | 115             |
| HGL-BF                                 | 30L              | 2679             | 670    | 23      | 5.8    | 115             | 45      | 5.6    | 120             |
|  | 40L              | 3383             | 846    | 30      | 7.4    | 114             | 58      | 7.3    | 117             |
|  | 50L              | 4234             | 1058   | 39      | 9.6    | 110             | 75      | 9.3    | 114             |
|  | 60L              | 5116             | 1279   | 49      | 12.2   | 105             | 95      | 11.8   | 108             |
|  | 80L              | 6914             | 1729   | 71      | 17.7   | 98              | 141     | 17.6   | 98              |
| HGL-BA                                 | 30L              | 3025             | 756    | 23      | 5.8    | 130             | 45      | 5.6    | 136             |
|  | 40L              | 3820             | 955    | 30      | 7.4    | 129             | 58      | 7.3    | 132             |
|  | 50L              | 4781             | 1195   | 39      | 9.6    | 124             | 75      | 9.3    | 128             |
|  | 60L              | 5777             | 1444   | 49      | 12.2   | 119             | 95      | 11.8   | 122             |
|  | 80L              | 7808             | 1952   | 71      | 17.7   | 110             | 141     | 17.6   | 111             |
| HGL-UF                                 | 30L              | 3185             | 796    | 23      | 5.8    | 137             | 45      | 5.6    | 143             |
|  | 40L              | 4022             | 1006   | 30      | 7.4    | 136             | 58      | 7.3    | 139             |
|  | 50L              | 5034             | 1258   | 39      | 9.6    | 131             | 75      | 9.3    | 135             |
|  | 60L              | 6082             | 1521   | 49      | 12.2   | 125             | 95      | 11.8   | 129             |
|  | 80L              | 8221             | 2055   | 71      | 17.7   | 116             | 141     | 17.6   | 117             |

**Lumen Maintenance**

| Ambient Temperature | TM-21 Lumen Maintenance (60,000 hours) | Theoretical L70 (Hours) |
|---------------------|--|-------------------------|
| 25°C                | >87%                                   | 129,000                 |
| 40°C                | 70%                                    | 60,000                  |

**Lumen Adjustment Factors**

| CCT   | 80 CRI | 90 CRI |
|-------|--------|--------|
| 3000K | 0.964  | 0.830  |
| 3500K | 1.000  | 0.861  |
| 4000K | 1.015  | 0.883  |

**Example Calculation:**

FR / 40L / 3500K / 80 CRI  
Lumen Output selected = 995 lms/ft

3500K / 90 CRI Desired  
Lumen Adjustment Factor = 0.861

Adjusted Lumen Output  
= 995 lms/ft x 0.861 = 857 lms/ft

\*Delivered lumens for 8ft units are multiples of 4ft values. Input wattages per foot vary per unit length.

**Color Data (3500K)**

|          |                | 80CRI |
|----------|----------------|-------|
| TM-30-15 | R <sub>f</sub> | 82.6  |
|          | R <sub>g</sub> | 94.9  |
| CRI/CIE  | R <sub>a</sub> | 83.8  |
|          | R <sub>9</sub> | 15.5  |

**Control Systems**

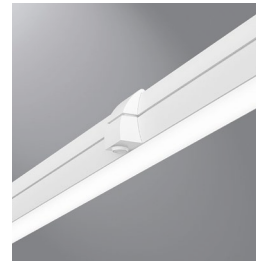
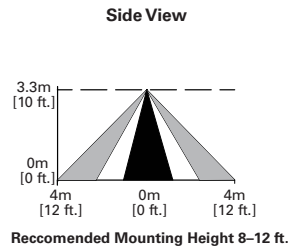
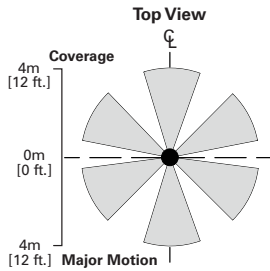
- WaveLinx Wireless
- WaveLinx Wired
- WaveLinx Lite
- Enlighted
- iLumin Plus
- VividTune



**Connected Systems**  
[CLICK HERE](#)

The Hugo with Integrated Sensor technology provides automatic energy savings without sacrificing performance. The Hugo delivers superior lighting with integrated occupancy and daylighting controls. For standalone and controlled applications, the WaveLinx Lite integral sensor provides out-of-the-box functionality with no gateways required and factory startup is not needed. When more connectivity is required, the WaveLinx Wireless sensor meets modern code and utility requirements, delivers energy and cost savings, while enabling buildings to become smart buildings. The WaveLinx Wireless Connected Lighting System combined with Trellix provides an open IoT platform and infrastructure that connects intelligent sensors leveraging the real-estate of the physical light fixture to solve higher complexity problems to deliver actionable insights through the aggregation of valuable data.

For additional information integrated sensors and connected lighting, please visit [Cooper Lighting Solutions' Connected Lighting Website.](#)



**Sensor Integration**

Integrated sensors are located in the middle of each section (4', 8', or 12') for individual and continuous runs. Minor field adjustments of the sensor location are possible along the length of the fixture. Each section can be individually controllable or grouped together with the integrated sensors.

**Systems comparison chart**

Cooper Lighting Solutions provides many lighting system solutions designed to satisfy code requirements and meet the unique needs of any project.



**Standalone**



**Controlled**  
WaveLinx Lite



**Connected**  
WaveLinx Wireless



**Enterprise**  
Trellix

|                          |     |                             |                     |                            |
|--------------------------|-----|-----------------------------|---------------------|----------------------------|
| <b>Occupancy</b>         | Yes | Yes                         | Yes                 | Yes                        |
| <b>Daylighting</b>       | Yes | Yes                         | Yes                 | Yes                        |
| <b>Gateways</b>          | -   | -                           | 1 WAC               | 300 WACs                   |
| <b>Devices</b>           | -   | 50 per Area (1400 per site) | 150 per WAC         | 45,000 per Core Enterprise |
| <b>Software</b>          | -   | WaveLinx Lite Mobile App    | WaveLinx Mobile App | Trellix Core               |
| <b>Areas</b>             | -   | 28 per Site                 | 16 per WAC          | up to 4,800                |
| <b>Zones</b>             | -   | 16 per Area                 | 16 per Area         | up to 76,800               |
| <b>Scheduling</b>        | -   | -                           | Local               | Global                     |
| <b>VividTune™</b>        | -   | -                           | Yes                 | Yes                        |
| <b>Plug-Load Control</b> | -   | -                           | Yes                 | Yes                        |
| <b>Integration</b>       | -   | -                           | -                   | BACnet, API                |
| <b>Dashboards</b>        | -   | -                           | -                   | Energy, Occupancy          |
| <b>Configuration</b>     | -   | Installer                   | Technician          | Technician / IT            |

**SCALABILITY**

