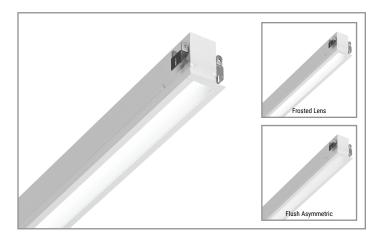
| Project     | Catalog # | Туре |  |
|-------------|-----------|------|--|
| Prepared by | Notes     | Date |  |



# **Corelite**

CL<sub>2</sub>

LED Recessed Direct

**Typical Applications** 

• Office • Education • Healthcare • Hospitality • Retail

# Interactive Menu

- Order Information page 2
- Photometric Data page 3
- Run Configurations page 3
- Integrated Sensor Details page 4
- Product Warranty

# **Product Certification**









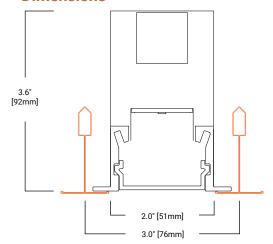
# **Product Features**



# **Top Product Features**

- 2" and 4" linear aperture sizes
- · 4 ft. and 8 ft. lengths for individual or continuous runs
- · High performance efficacy up to 122 lumens per watt
- · Fits a variety of different architectural ceiling types
- · Integrated wireless sensor control available
- · Options to meet Buy American Act requirements

## **Dimensions**







Corelite CL2 - Recessed

## Order Information

Icon Key: Grey bar denotes available with 10-Day Quick Ship

SAMPLE ORDER NUMBER: CL2DR-F-70D835-1B3-UNV-STD-SWPD1-CP-W-T1-20

| Domestic<br>Preferences   | Light Distribution  | Shielding Down                                       | Lumen Package<br>Down   | CCT & Min CRI  | Circuiting   | Emergency  | Voltage  |
|---|---|--|---|--|--|--|--|
| Domestic<br>Preferences   | Light Distribution  | Shielding Down                                       | Lumen Package Down  | CCT & Min CRI  | Circuiting   | Emergency  | Voltage  |
| [Blank]=Standard<br>BAA=Buy American Act  | CL2DR=Corelite CL Series<br>2" Aperture Direct Recessed<br>QS-CL2DR=Corelite CL<br>Series 2" Aperture Direct<br>Recessed Quick Ship | F=Frosted Flush Diffuser<br>A=Asymmetric Flush Optic | 30D=300 lumens/ft<br>50D=500 lumens/ft<br>70D=700 lumens/ft<br>90D=900 lumens/ft<br>100D=1000 lumens/ft | 830=3000K, 80+ CRI<br>835=3500K, 80+ CRI<br>840=4000K, 80+ CRI<br>930=3000K, 90+ CRI<br>935=3500K, 90+ CRI<br>940=4000K, 90+ CRI | 1=Single Circuit<br>S=Secondary Circuit  | E=Emergency Circuit B3=lota 5-watt 120V-277V Integral EM Battery EPC=EPC UL924 Device  | <b>UNV</b> =Universal (120-277V)<br><b>347</b> =347V |
| Notes  Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA), Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately analyzed under domestic preference requirements. | Notes   | <b>Notes</b> All lensing options are snap-in lenses  | Notes  Nominal lumen output. Refer to performance table on Page 3 for more detail.                      | Notes Additional lead-time may apply for 930, 935 and 940 configurations.  | Notes Secondary circuit similar to A/B switching. Secondary circuit not available with sensor options. | Notes<br>Fixture Non-IC-Rated for<br>internal battery and lumen<br>output ≥1000 Lms/ft. External<br>battery standard with chicago<br>plenum. | Notes<br>347V only available with STD<br>driver.     |

| Integral LED Driver   | Integrated Sensor   | Options                          | Finish          | Ceiling Type  | Length   |
|---|---|----------------------------------|-----------------|---|--|
| Integral LED Driver   | Integrated Sensor   | Options                          | Finish          | Ceiling Type  | Length   |
| STD=Standard 0-10V (1%-100%) 5LT=Fifth Light DALI (5%-100%) LH=Lutron HiLume 1% EcoSystems (LDE1) L5=Lutron 5-Series 5% EcoSystems (LDE5) | SWPD1=WaveLinx Wireless Integral Sensor LWIPD1=LumaWatt Pro Wireless Integrated Sensor SVPD1=0-10V Stand-alone Integrated Sensor  | CP=Chicago Plenum                | <b>W</b> =White | T1=15/16" T-Grid, 9/16" T-Grid<br>T2=9/16" Slot T-Grid, 9/16" Tegular T-Grid<br>FG=Flanged (Gypsum Board) | 4=4' Individual<br>8=8' Individual<br>XX=4' Incremental Run (e.g. 40=40')  |
| Notes Additional lead-time may apply for SLT, LH, and L5 configurations.  | Notes Sensor options must be used with 'STD' driver. Please refer to page 4 for additional detail. Integral sensor not available with asymmetric lens option. Additional lead-time may apply for LWIPDI and SVPDI configurations. | Notes<br>Meets CCEC requirements | Notes           | Notes Please refer to ceiling interface diagrams for additional detail and dimensions.                    | Notes Standard row configurations over 8' consist of 4' and 8' luminaires. |

# **Product Specifications**

#### Construction

- · Formed housing with precision cut housing trim extruded from 6063 aluminum.
- · Laser-cut formed cold rolled steel endcaps
- Die-formed 22 gauge cold rolled steel pre-paint white reflector
- · Driver accessible from below
- These fixtures may have MWS (Modular Wiring System) added. Consult factory for details.

#### Lengths

- · 4 ft and 8 ft fully illuminated sections for individual and continuous runs
- See table on page 3 for continuous row length breakdowns

### **Finish**

· Electrostatically applied polyester powder coat paint

- Recessed lay-in for T-grid installation or direct into gypsum with ½" flange
- All sections are continuously wired with plug-in connectors for fast installation
- · Fixtures can be joined for straight continuous runs using rigid alignment features

### **Shielding**

- · Frosted (F) Flush, high diffusion pixilation-free
- Asymmetric (A) Flush, internal prismatic design for asymmetric distribution
- · Patent-pending under-lens solution eliminates light leak

- LED's are available in 3000K, 3500K, 4000K
- . CRI options of either ≥80CRI or ≥90CRI
- Lumen output will be affected please refer to the lumen adjustment factor tables
- TM21 life at 60,000 hours up to L94 and calculated L70 exceeds 400,000 hrs
- · Drivers available in 120-277V and 347V

## **Integrated Controls**

- · 0-10V dimming to 1% standard
- · WaveLinx sensor compatible for IoT capability
- LumaWatt Pro sensor compatible for IoT capability
- SVPD sensor compatible for out of the box functionality
- DALI 2.0 and Lutron dimming available

### **Emergency Options**

- · Default emergency circuit section (E) is 4 ft. in length and located at the beginning of the fixture unless designated elsewhere
- Optional 120-277V emergency battery provided internal to fixture with pre-wired external test switch
- 90-minute backup period for code compliance
- Estimated lumen output = battery wattage x min efficacy - see performance table (e.g. 100 lm/W x 5 = 500 lumens)
- UL 924 emergency/generator transfer options available

#### Weight

· 2.5 lbs. per foot

- · cULus listed for damp locations
- Meets NYC requirements
- IC Rated for insulation contact (except where noted)
- 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, refer to www.designlights.org for details

#### Warranty

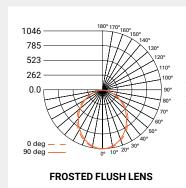
· Five year warranty standard.



**Corelite CL2 - Recessed** 

# **Photometric Data**



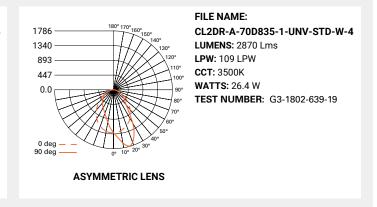


FILE NAME:

CL2DR-F-70D835-1-UNV-STD-W-4

LUMENS: 2646 Lms **LPW**: 101 LPW **CCT**: 3500K **WATTS:** 26.3 W

TEST NUMBER: G3-1802-639-10



Note: Refer to IES files for more product data.

# **Photometric Overview and Performance Data**

| CL2DR LED Light Level Outputs (3500K, 80 CRI) |                  |                     |         |                 |  |  |  |  |  |  |
|---|------------------|---------------------|---------|-----------------|--|--|--|--|--|--|
| Series  | Lumen<br>Package | Delivered<br>Lumens | Wattage | Efficacy<br>LPW |  |  |  |  |  |  |
|   | Package          | Per FT              | Per FT  | LPW             |  |  |  |  |  |  |
|   | 30D              | 290                 | 2.9     | 100             |  |  |  |  |  |  |
|   | 50D              | 475                 | 4.7     | 101             |  |  |  |  |  |  |
| CL2DR   | 70D              | 662                 | 6.6     | 101             |  |  |  |  |  |  |
|   | 90D              | 844                 | 8.7     | 97              |  |  |  |  |  |  |
|   | 100D             | 980                 | 10.3    | 95              |  |  |  |  |  |  |

#### **LUMEN ADJUSTMENT FACTORS**

| ССТ   | 80CRI | 90CRI |  |  |  |  |
|-------|-------|-------|--|--|--|--|
| 3000K | 0.943 | 0.815 |  |  |  |  |
| 3500K | 1.000 | 0.861 |  |  |  |  |
| 4000K | 1.010 | 0.892 |  |  |  |  |

#### **LUMEN ADJUSTMENT CALCULATIONS**

Example - Adjusted Lumen Output

Nominal Lumen Output selected = 50D = 485 lms/ft (based on standard of 3500K/80CRI)

Lumen Adjustment Factor = 0.861 (3500K/90CRI desired)

Adjusted Lumen Output = Nominal Lumen Output x Lumen Adjustment Factor Adjusted Lumen Output = 485 lms/ft x 0.861 = 418 lms/ft

# **Run Configurations**

| Standard<br>Length | 4ft | 8ft | 12ft | 16ft | 20ft | 24ft | 28ft | 32ft | 36ft | 40ft | 44ft | 48ft | 52ft | 56ft | 60ft | 64ft | 68ft | 72ft | 76ft | 80ft | 84ft | 88ft | 92ft | 96ft |
|--------------------|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 4ft                | 1   |     | 1    |      | 1    |      | 1    |      | 1    |      | 1    |      | 1    |      | 1    |      | 1    |      | 1    |      | 1    |      | 1    |      |
| 8ft                |     | 1   | 1    | 2    | 2    | 3    | 3    | 4    | 4    | 5    | 5    | 6    | 6    | 7    | 7    | 8    | 8    | 9    | 9    | 10   | 10   | 11   | 11   | 12   |

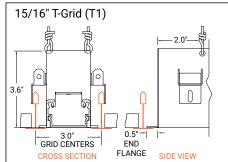


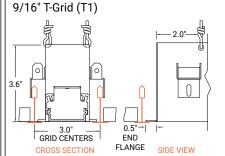
Corelite CL2 - Recessed

# **Ceiling Type**

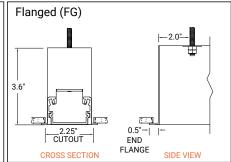
Extruded Trim Flange Details - Refer to submittal drawings for detailed flange information - for additional options consult factory.

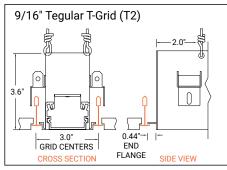
# **Grid Ceiling Systems**

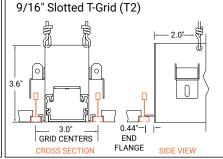




# Drywall Ceiling







Drywall ceiling note: actual length of 'fg' fixures will be 1" shorter in length than total requested run length for all recessed fixtures

Overall run length = 'fixture order length' - 1"

e.g. - overall run length of 47" will ship when ordering a '4ft' fixture

Ceiling cutout = 'overall run length' + 0.25"

Or ceiling cutout = 'fixture order length' - 0.75"

e.g. - ceiling cutout when ordering a '4ft' length fixture will be 47.25"

e.g. - ceiling cutout when ordering a '20ft' length fixture will be 239.25"

# **Integrated Sensor Details and Placement**

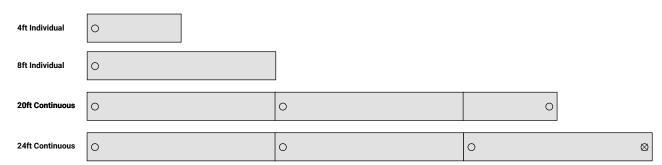
| Sensor Type                 | Wireless | Sensor Integration  | Sensor Mounting             | Ordering Code |
|-----------------------------|----------|---------------------|-----------------------------|---------------|
| WaveLinx                    | Yes      | Integral to Fixture | Mounted in solid cover      | SWPD1         |
| LumaWatt Pro<br>(enlighted) | Yes      | Integral to Fixture | Mounted in illuminated lens | LWIPD1        |
| Stand-Alone<br>SVPD1        | No       | Integral to Fixture | Mounted in solid cover      | SVPD1         |

Optional standalone and wireless connnected integrated sensors require use of the STD (0-10V) driver. WaveLinx and LumaWatt Pro sensors require additional system hardware (not provided) for full functionality. Tilemount sensor recommended for optimal sensor coverage on perimeter applications. Tilemount sensor not available with Chicago plenum option.

Standard sensor layout is shown below. Please refer to sensor coverage pattern diagrams to ensure proper coverage for the application. Standard configurations are available in both individual fixtures and in continuous runs.

For additional information integrated sensors and connected lighting, please visit Eaton's Connected Lighting Website.

#### INTEGRAL SENSOR LAYOUT EXAMPLES



Cooper Lighting Solutions 18001 East Colfax Avenue Aurora, CO 80011

www.eaton.com/lighting

P: 303-393-1522



O Standard Sensor with Luminaire Control

Auxiliary Sensor used for Sensor Coverge (wireless systems only)