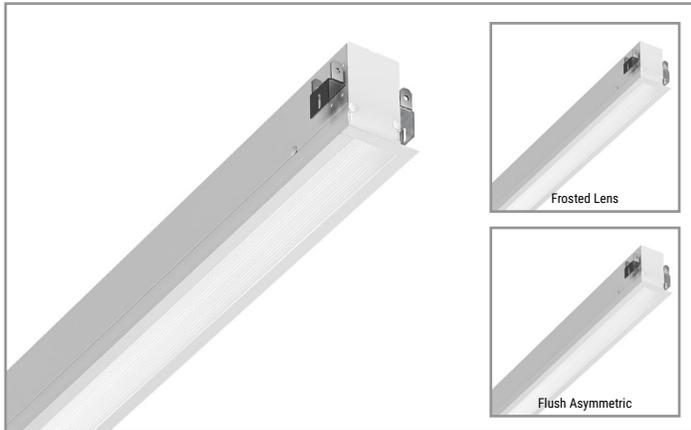


Project		Catalog #		Type	
Prepared by		Notes		Date	



Corelite

CL2

LED
Recessed
Direct

Typical Applications

• Commerical Office Spaces • Schools • Hospitals • Retail Merchandising Areas

Interactive Menu

- Order Information [page 2](#)
- Photometric Data [page 3](#)
- Run Configurations [page 3](#)
- Integrated Sensor Details [page 4](#)
- Product Warranty

Product Certification



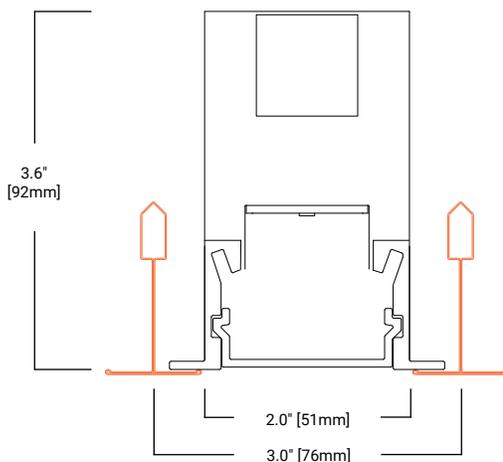
Product Features



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

Dimensions



[additional product diagrams](#)

Order Information

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

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

Light Distribution	Shielding Down	Lumen Package Down	CCT & Min CRI	Circuiting	Emergency	Voltage
CL2DR =Corelite CL Series 2" Aperture Direct Recessed QS-CL2DR =Corelite CL Series 2" Aperture Direct Recessed Quick Spec	F =Frosted Flush Diffuser A =Asymmetric Flush Optic	30D =300 lumens/ft 50D =500 lumens/ft 70D =700 lumens/ft 90D =900 lumens/ft 100D =1000 lumens/ft	830 =3000K, 80+ CRI 835 =3500K, 80+ CRI 840 =4000K, 80+ CRI 930 =3000K, 90+ CRI 935 =3500K, 90+ CRI 940 =4000K, 90+ CRI	1 =Single Circuit S =Secondary Circuit	[Blank] =No Emergency E =Emergency Circuit B3 =6-watt 120V-277V Integral EM Battery EPC =EPC UL924 Device	UNV =Universal (120-277V) 347 =347V
Notes	Notes 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 Fixture Non-IC-Rated for internal battery and lumen output ≥1000 Lms/ft. External battery standard with chicago plenum.	Notes 347V only available with STD driver.

Integral LED Driver	Integrated Sensor	Options	Finish	Ceiling Type	Length
STD =Standard 0-10V (1%-100%) 5LT =Fifth Light DALI (1%-100%) LH =Lutron HiLume 1% EcoSystems (LDE1)	[Blank] =No Sensor WAA =WaveLinx Wireless Integrated Sensor ^(A) WAB =WaveLinx Lite Wireless Integrated Sensor ^(B) SVPD1 =0-10V Stand-alone Integrated Sensor ^(D)	[Blank] =None CP =Chicago Plenum	W =White	T1 =15/16" T-Grid, 9/16" T-Grid T2 =9/16" Slot T-Grid, 9/16" Tegular T-Grid FG =Flanged (Gypsum Board)	4' Individual 8' Individual XX =4' Incremental Run (e.g. 40=40')
Notes Additional lead-time may apply for 5LT and LH 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. Integrated options must be used in conjunction with the associated system and may not be compatible with other options or accessories. Please refer to the following: (A) Consult WaveLinx system pages for additional details and compatibility. (B) WaveLinx Lite devices are not currently compatible with the WaveLinx Wireless Area Controller. Consult WaveLinx Lite system pages for additional details and compatibility. (D) Consult SVPD series system pages for additional details and compatibility.	Notes 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

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

Mounting

- Recessed lay-in for T-grid installation or direct into gypsum with 1/2" 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 lens
- Asymmetric (A) – Flush, internal prismatic design for asymmetric distribution
- Patent-pending under-lens solution eliminates light leak

Light Engine

- 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 wireless sensor compatible for standalone, controlled, connected, and IoT capability
- SVPD sensor compatible for standalone functionality
- Low-voltage sensor and driver compatible for DLVP applications
- DALI 2.0, Lutron, and step-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

Compliance

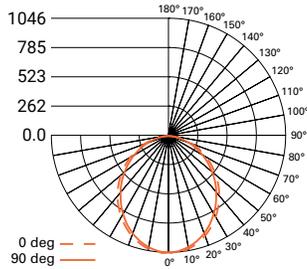
- cULus listed for damp locations
- Meets NYC requirements
- IC Rated for insulation contact (except where noted)
- Tested to IESNA LM-79 and LM-80
- Stated life per TM21 standards
- Can be used for State of California Title 24 high efficacy luminaire
- DesignLights Consortium® Qualified and classified for DLC Standard, refer to www.designlights.org for details

Warranty

- Five year warranty standard. Optional ten year warranty available

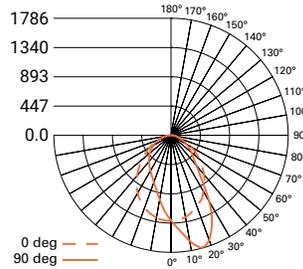
Photometric Data

[View IES files](#)



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

FROSTED FLUSH LENS



FILE NAME:
CL2DR-A-70D835-1-UNV-STD-W-4
LUMENS: 2870 Lms
LPW: 109 LPW
CCT: 3500K
WATTS: 26.4 W
TEST NUMBER: G3-1802-639-19

ASYMMETRIC LENS

Note: Refer to IES files for more product data.

Photometric Overview and Performance Data

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

LUMEN ADJUSTMENT FACTORS

CCT	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 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

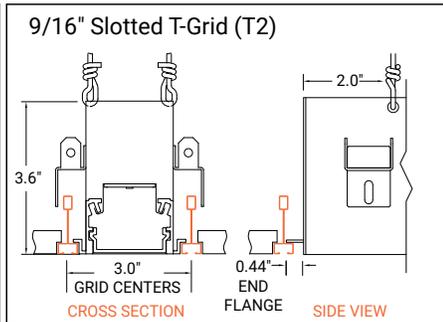
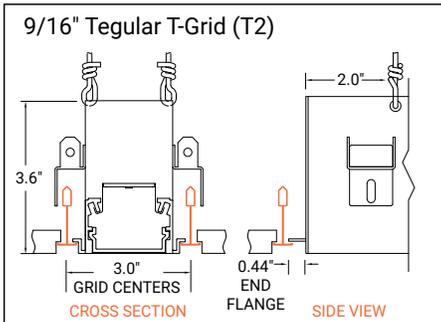
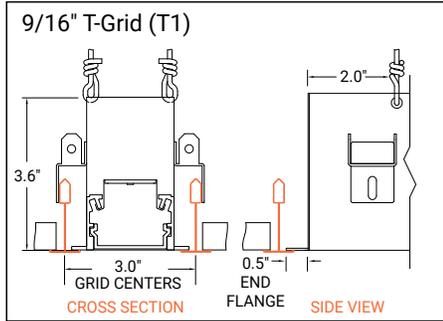
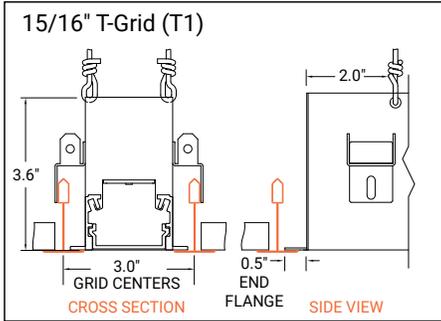
Lumen Maintenance

Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours)	Theoretical L70 (Hours)
25°C	>94%	>400,000

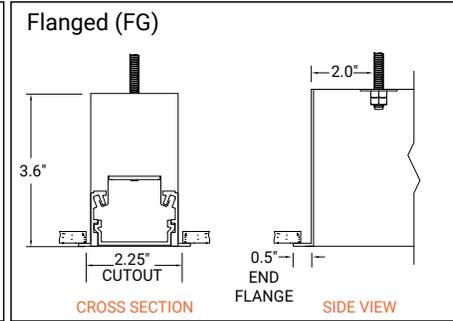
Ceiling Type

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' fixtures 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

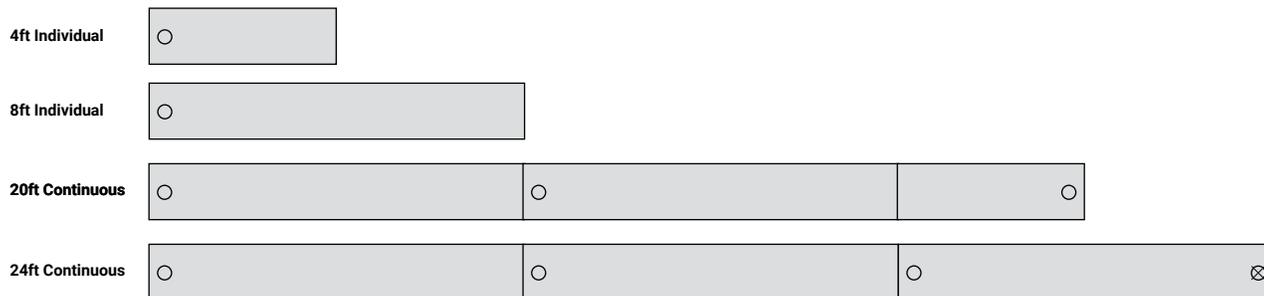
Ceiling cutout = 'overall run length' + 0.25"
Or ceiling cutout = 'fixture order length' - 0.75"
e.g. - ceiling cutout when ordering a '4ft' length fixture will be 47.25"
e.g. - ceiling cutout when ordering a '20ft' length fixture will be 239.25"

Integrated Sensor Details and Placement

Sensor Type	Wireless	Sensor Integration	Sensor Mounting	Ordering Code
WaveLinx	Yes	Integral to Fixture	Mounted in solid cover	WAA/WAB
Stand-Alone SVPD1	No	Integral to Fixture	Mounted in solid cover	SVPD1

- Standard Sensor with Luminaire Control
- Auxiliary Sensor used for Sensor Coverage (wireless systems only)

INTEGRAL SENSOR LAYOUT EXAMPLES



Control Systems

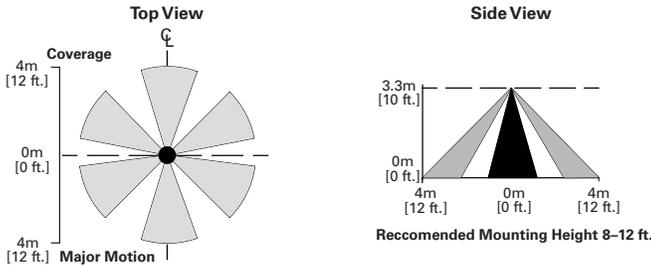
- WaveLinx Wireless
- WaveLinx Wired
- WaveLinx Lite



The CL2 with Integrated Sensor technology provides automatic energy savings without sacrificing performance. The CL2 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.



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

SCALABILITY

