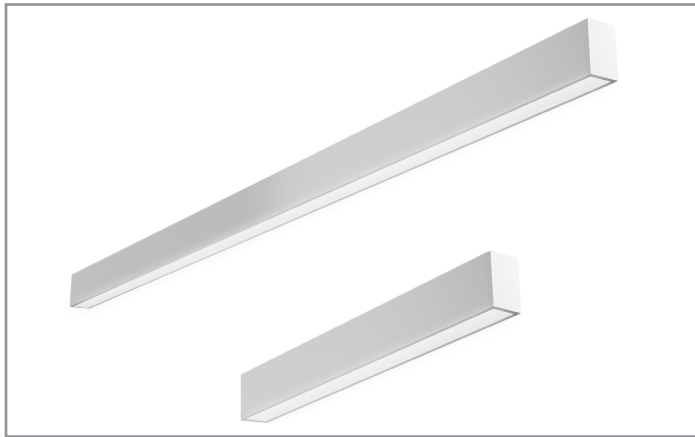| Project		Catalog #		Type	
Prepared by		Notes		Date	

Corelite

Bryx

Linear LED
Suspended Pendant
Direct, Direct/Indirect

Typical Applications

Office • Education • Healthcare • Hospitality • Retail

Interactive Menu

Product Certification

UL CERTIFIED SAFETY   RoHS COMPLIANT   **Efficiency Standards** T24 California Title 24 Non-Residential Compliant *

*Self-tested by Cooper Lighting - not a third-party certification.

Product Features

Connected Systems   powered by fifthlight technology   damp location   WaveLinx PRO   WaveLinx LITE
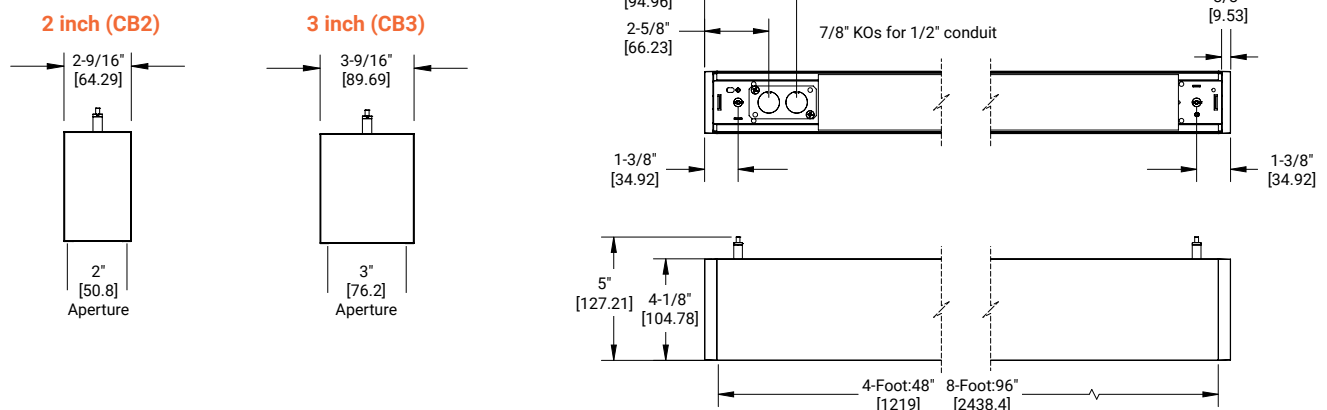
Top Product Features

- Suspended Mounting (Recessed and Surface mount options also available. See details on separate spec sheets)
- 2" and 3" apertures with high transmission lift and shift lay in lens
- 4' and 8' modular sections, continuous runs in 4' increments
- Designed to minimize light leaks between fixtures in continuous runs for a clean architectural appearance
- Serviceable from below with hinged reflector tray for easy serviceability
- Linearly adjustable mounting points available to accommodate installation challenges
- Independent up/down circuiting available
- Available Indirect batwing optic for maximizing ceiling uniformity and on-center spacing
- Up to 138 lumens per watt in the 3" aperture
- Integrated controls and emergency options

Dimensions

2 inch (CB2)

2-9/16"
[64.29]

2"
[50.8]
Aperture

3 inch (CB3)

3-9/16"
[89.69]

3"
[76.2]
Aperture

3-3/4"
[94.96]

2-5/8"
[66.23]

7/8" KOs for 1/2" conduit

3/8"
[9.53]

1-3/8"
[34.92]

1-3/8"
[34.92]

5"
[127.21]

4-1/8"
[104.78]

4-Foot:48"
[1219]

8-Foot:96"
[2438.4]

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Order Information

SAMPLE ORDER NUMBER: **CB3-D-085U-085D-835-2D-UNV-STD-B10-S -AC48-T1-48**

Series	Uplight Diffuser	Lumen package Up (Lms/ft)	Lumen Package Down (Lms/ft)	CRI/CCT	Circuiting (In Cross Section)	Additional Section Wiring
CB2=Corelite Bryx 2" Suspended **CB3**=Corelite Bryx 3" Suspended	**[Blank]**=None **D**=Diffuser Dust Cover **B**=Batwing Lens	**0U**=No Uplight **030U**=300 Lumens/ft Up **055U**=550 Lumens/ft Up **085U**=850 Lumens/ft Up **125U**=1250 Lumens/ft Up	**030D**=300 Lumens/ft Down **055D**=550 Lumens/ft Down **085D**=850 Lumens/ft Down **120D**=1200 Lumens/ft Down	**830**=3000K, 80 CRI **835**=3500K, 80 CRI **840**=4000K, 80 CRI	**1**=Single Circuit **2**=Dual Circuit (Ind. Up/Down Circuits ø	**D**=None (Default Dimming) **E**=Emergency Circuit **S**=Secondary Circuit **N**=Secondary + Emergency Circuit
Notes	Notes	Notes Custom lumen output available. Up (Indirect): CB2 max = 1800 lms CB3 max = 1800 lms Consult factory to specify custom lumen package See Driver Availability tables for more details.	Notes Custom lumen output available. Down (Direct): CB2 direct max = 1600 lms/ft CB3 direct max = 1800 lms/ft Consult factory to specify custom lumen package	Notes	Notes Refers to wiring in cross section. ø Dual circuit not available with secondary circuit or integrated sensor.	Notes These circuit options operate entire downlight portion of a specified unit. Secondary is not available with sensor

Voltage	Driver/Dimming	Integrated Sensor Options	Integrated Emergency Device Options	Finish
UNV=Univeral (120V-277V) **347**=347V	**STD**=Standard 0-10V (1%-100%) **5LT**=Fifth Light DALI (1%-100%) **LH**=Lutron HiLume 1% EcoSystems (LDE1)	**[Blank]**=No Sensor **WPS**=WaveLinx Pro Wireless Integrated Sensor ø, (A) **WLS**=WaveLinx LITE Wireless Integrated Sensor ø, (B)	**[Blank]**=No emergency device **B06**=6-watt, 120V-277V Emergency Battery Pack **EPC**=LVS Controls EPC UL924 Bypass Relay Device **B10**=10-watt, 120V-277V Emergency Battery Pack	**W**=White **B**=Black **S**=Silver
Notes Integrated 347V driver with STD 0-10V option only.	Notes Not all driver options are available for every configuration.	Notes (ø) Integrated options must be used in conjunction with the associated system and may not be compatible with other options or accessories. (A) Consult WaveLinx PRO 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.	Notes Battery and EPC operates entire downlight portion of 4ft fixtures. Battery operates specified 4ft sections of 8ft fixtures. Battery not available with uplight output above 085U EPC option used to bypass local control during outage. Must be used in conjunction with UL 1008 device (provided by others). 4ft Fixture with uplight not available with integrated battery.	Notes Consult factory for custom finishes.

Suspension Type	Ceiling Type	Run Length
AC48=48" Aircraft cable **AC120**=120" Aircraft cable **AC360**=360" Aircraft cable **AM48** = Linearly adjustable 48" aircraft cable **AM120** = Linearly adjustable 120" aircraft cable **AM360** = Linearly adjustable 360" aircraft cable	**T1**=15/16" Flat T-Grid **T9**=9/16" Flat T-Grid **TS**=Dimensional T-Grid (Tegular, Slotted, Interlude, etc.) **JB**=Junction Box / Structure **__S**=Swivel at Canopy (__ = T1, T9, TS or JB)	**4**=4 ft **8**=8 ft **XX**=Specify Run Length
Notes	Notes White mounting hardware standard. Add "-B" after ceiling type for black mounting hardware.	Notes See 'Standard Row Configurations' table on Page 3 for continuous row length breakdowns.

Product Specifications

Construction
- Precision formed 20 gauge cold rolled steel powder coated housing
- Die-formed 22 gauge cold rolled steel powder coated white reflector
- Die-Cast, polished and powder coated aluminum endcaps
- Extruded 6061 aluminum side walls
- Hinged tray provides easy access to driver

Lengths
- 4 ft and 8 ft fully illuminated sections for individual and continuous runs
- See table below for run configuration details

Finish
- Electrostatically applied polyester powder coat paint

Mounting
- Aircraft cable mount centers are 1 3/8" from ends of fixture/run
- Can be adjusted along the length of the fixture to match existing mounting points with available adjustable mounting bracket. See Installation Instructions for more details
- Minimum suspension height from ceiling to top of fixture is 5"
- All sections are continuously wired with push-in connectors for fast installation
- Refer to installation instructions for various ceiling interface details
- Fixtures can be joined for straight continuous runs
- Specifically designed with rigid alignment features and offset internal housing to optimize consistent alignment and eliminate light leak in straight continuous runs

Shielding
- Direct Shielding: Lift and shift .118" thick high diffusion, pixilation-free acrylic lens
- InDirect Shielding Option: Diffuse Dustcover **(D)** – Lay-in diffuse acrylic .118" dustcover
- InDirect Shielding Option: Batwing Uplight Lens **(B)** – Lay-in extruded acrylic batwing lens

Light Engine
- LED CCTs are available in 3000K, 3500K, 4000K
- CRI of ≥80CRI
- L70 > 72,000 hours and L90 = 44,000 hours
- Lumen output can be affected by CCT choice - please refer to the lumen adjustment factor tables on page 7
- TM21 life at 60,000 hours up to L86 and calculated L70 exceeds 145,0000 hours
- 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
- DALI 2.0 and Lutron driver options available

Emergency Options
- UL 924 emergency/generator transfer options available
- Default emergency circuit section (E) For emergency, UL924, and (S) secondary circuit, controls the full length of fixture
- Optional 120-277V emergency battery provided internal to fixture with pre-wired external test switch 90-minute backup period for code compliance. (emergency battery circuit section (B) is 4 ft. in length and located at the beginning of the fixture unless designated elsewhere)
- Estimated lumen output = battery wattage x min efficacy - see performance table (e.g. 100 lm/W x 6 = 600 lumens)

Weight
- 2.5 lbs. per foot

Compliance
- cULus listed for damp locations
- Tested to IESNA LM-79 and LM-80
- Stated life per TM21 standards
- ROHS compliant
- Can be used for State of California Title 24 high efficacy luminaire

Warranty
- Five year limited warranty standard www.cooperlighting.com/legal

Run Configuration Details

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

NOTE: Run configurations will consist of beginning of run (BOR), end of run (EOR) and intermediate fixtures. BOR and EOR fixtures are supplied with end caps pre-installed to simplify installation. Intermediate fixtures are shipped ready to join.
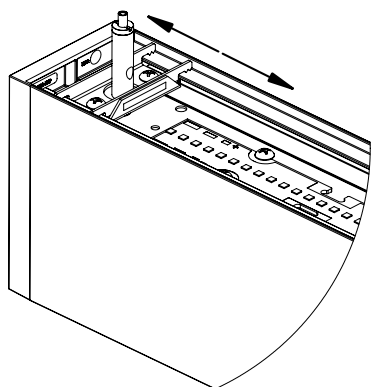
## Mounting Locations for Suspended Fixtures

Mounting Locations
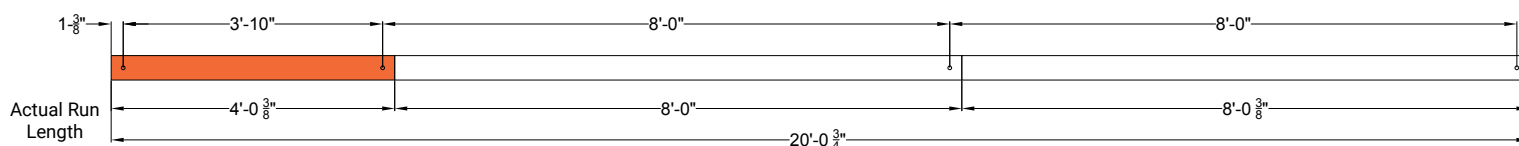
Note: In continuous runs requiring a 4ft fixture, the 4ft fixture is placed at the beginning of the run.

Adjustable Mounting

To assist with installation, an optional adjustable mount allows 1-12" of linear adjustability to avoid ceiling interferences such as ducts or to match existing mounting points.
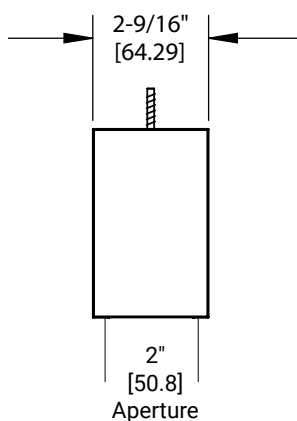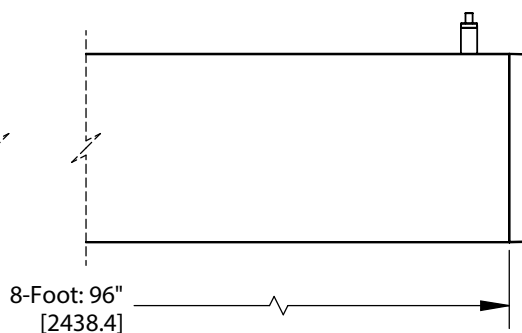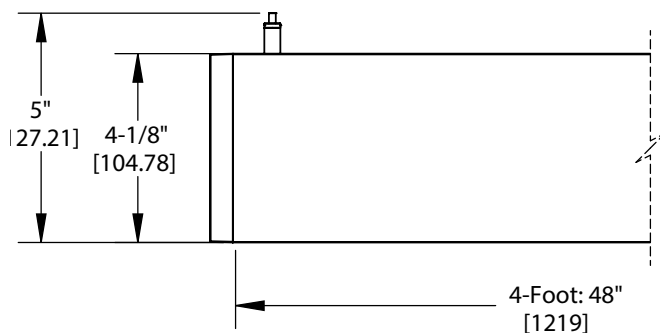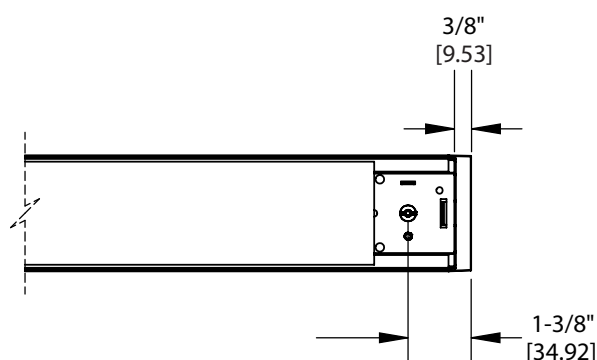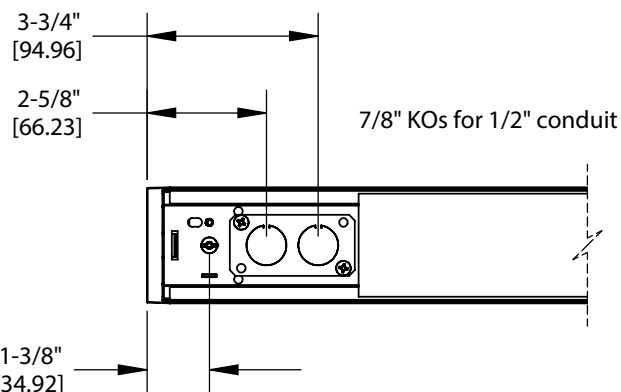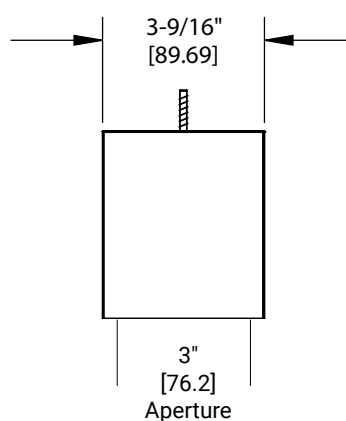
Driver Accessibility
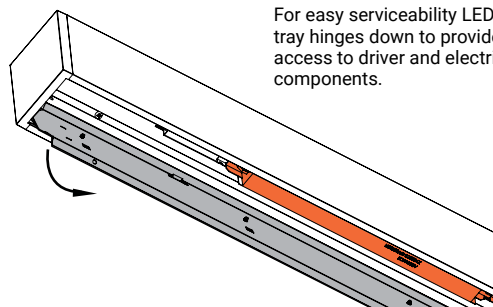
For easy serviceability LED reflector tray hinges down to provide quick access to driver and electrical components.

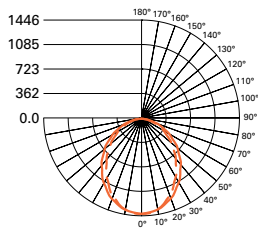## Suspended Mounting Details and Dimensions

2 inch (CB2)

2-9/16"
[64.29]

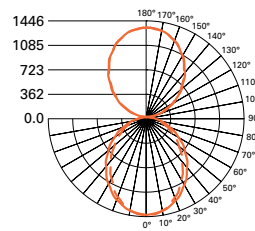2"
[50.8]
Aperture

3 inch (CB3)

3-9/16"
[89.69]

3"
[76.2]
Aperture

3-3/4"
[94.96]

2-5/8"
[66.23]

7/8" KOs for 1/2" conduit

3/8"
[9.53]

1-3/8"
[34.92]

1-3/8"
[34.92]

5"
[27.21]

4-1/8"
[104.78]

4-Foot: 48"
[1219]

8-Foot: 96"
[2438.4]

Photometric Data

FILE NAME:
CB2-0U-085D-835-1D-UNV-STD-W-4.ies
CCT/CRI: 3500K / 80 CRI
LUMENS: 3371.2 Lm
WATTS: 28.9 W
EFFICACY: 116.7 Lm/W
TEST NO.: P824227
0% UP / 100% DOWN

0° (∥) ― ― ―
90° (⊥) ――――

FILE NAME:
CB2-085U-085D-835-1D-UNV-STD-W-4.ies
CCT/CRI: 3500K / 80 CRI
LUMENS: 6732.9 Lm
WATTS: 53.3 W
EFFICACY: 126.3 Lm/W
TEST NO.: P824212
50% UP / 50% DOWN

0° (∥) ― ― ―
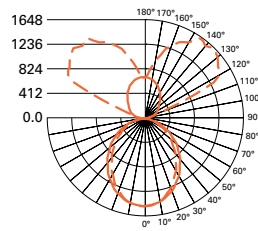90° (⊥) ――――
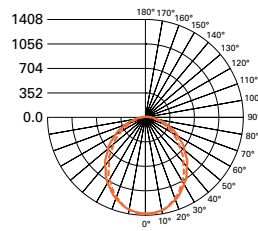
FILE NAME:
CB3-0U-085D-835-1D-UNV-STD-W-4.ies
CCT/CRI: 3500K / 80 CRI
LUMENS: 3371 Lm
WATTS: 25.9 W
EFFICACY: 130.2 Lm/W
TEST NO.: P824323
0% UP / 100% DOWN

0° (∥) ― ― ―
90° (⊥) ――――
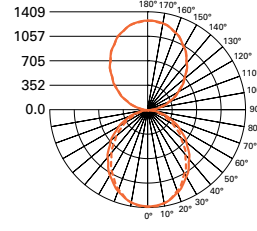
FILE NAME:
CB3-085U-085D-835-1D-UNV-STD-W-4.ies
CCT/CRI: 3500K / 80 CRI
LUMENS: 6732.7 Lm
WATTS: 49.5 W
EFFICACY: 136 Lm/W
TEST NO.: P824308
50% UP / 50% DOWN

0° (∥) ― ― ―
90° (⊥) ――――

FILE NAME:
CB2-B-085U-085D-835-1D-UNV-STD-W-4.ies
CCT/CRI: 3500K / 80 CRI
LUMENS: 7872 Lm
WATTS: 53.3 W
EFFICACY: 147.7 Lm/W
TEST NO.: P958986
57% UP / 43% DOWN

0° (∥) ― ― ―
90° (⊥) ――――
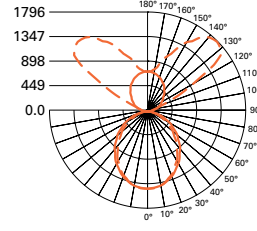
FILE NAME:
CB3-B-085U-085D-835-1D-UNV-STD-W-4.ies
CCT/CRI: 3500K / 80 CRI
LUMENS: 7614.3 Lm
WATTS: 49.5 W
EFFICACY: 153.8 Lm/W
TEST NO.: P959034
56% UP / 44% DOWN

0° (∥) ― ― ―
90° (⊥) ――――

Note: Refer to IES files for more product data.

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Photometric Data

Lumen Maintenance

Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours) [1]	Calculated L70 (Hours) [2]
25°C	86%	>145,000

Notes: (1) Supported by IES TM-21 standards. (2) Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, that explains proper use of IES TM-21 and LM-80.

Color Data (3000K)

		80CRI
TM-30-15	R_f	85.3
	R_g	97.6
CRI/CIE	R_a	83.9
	R_9	12.3

80CRI
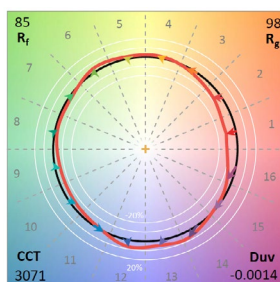
Color Data (3500K)

		80CRI
TM-30-15	R_f	85.1
	R_g	96.5
CRI/CIE	R_a	84.5
	R_9	14.2

80CRI
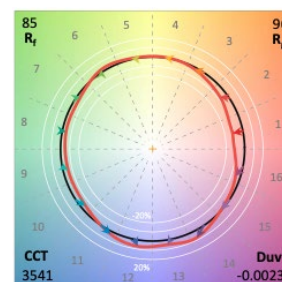
Color Data (4000K)

		80CRI
TM-30-15	R_f	84.1
	R_g	94.8
CRI/CIE	R_a	84.1
	R_9	12.5

80CRI
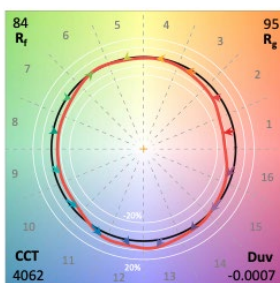
Default Integral Sensor Placement

Individual

2 Fixture Run

More than 2 Fixture Run

○ Standard Sensor with Luminaire Control

Note: 8' sensor spacing for continuous runs using 8' max units.
4' and 8' units at the ends of runs will utilize sensor end caps.

Energy and Performance Data

	Bryx Recessed / Surface Performance (3500K)						Glare	
Lumen Package	Lumens/ft	Lumens/ft	Lumens/ft	W/ft	Lm/W	Distribution	UGR	MAX LUMINANCE
	Up	Down	Total	Total		(up% / down%)	(1-2)(4-6)	(3-6)
CB2								
	0U-030D	0	289	289	2.4	119	0% / 100%	22.3	7003
	0U-055D	0	552	552	4.7	119	0% / 100%	24.6	13380
	0U-085D	0	843	843	7.2	117	0% / 100%	26	20422
	0U-120D	0	1200	1200	10.9	111	0% / 100%	27.3	29073
	030U-030D	289	289	578	4.5	129	50% / 50%	18.2	7003
	030U-055D	289	552	841	6.7	125	34% / 66%	21.9	13380
	030U-085D	289	843	1131	9.3	122	26% / 74%	24.1	20422
	030U-120D	289	1200	1488	12.9	115	19% / 81%	25.8	29073
	055U-030D	557	289	846	6.4	132	66% / 34%	16.5	7003
	055U-055D	557	552	1109	8.7	128	50% / 50%	20.5	13380
	055U-085D	557	843	1400	11.2	125	40% / 60%	22.9	20422
	055U-120D	557	1200	1757	14.9	118	32% / 68%	24.8	29073
	085U-030D	840	289	1129	8.5	132	74% / 26%	15.3	7003
	085U-055D	840	552	1393	10.8	130	60% / 40%	19.4	13380
	085U-085D	840	843	1683	13.3	126	50% / 50%	22	20422
	085U-120D	840	1200	2040	17	120	41% / 59%	24	29073
	125U-030D	1262	289	1551	12.2	128	81% / 19%	14.1	7003
	125U-055D	1262	552	1814	14.4	126	70% / 30%	18.3	13380
	125U-085D	1262	843	2105	17	124	60% / 40%	20.9	20422
	125U-120D	1262	1200	2462	20.6	120	51% / 49%	23.1	29073
CB3								
	0U-030D	0	289	289	2.2	131	0% / 100%	20.9	4522
	0U-055D	0	552	552	4.2	131	0% / 100%	23.1	8637
	0U-085D	0	843	843	6.5	130	0% / 100%	24.6	13185
	0U-120D	0	1200	1200	9.6	125	0% / 100%	25.8	18769
	030U-030D	288	289	578	4.2	138	50% / 50%	16.8	4522
	030U-055D	288	552	841	6.2	136	34% / 66%	20.4	8637
	030U-085D	288	843	1131	8.5	134	26% / 74%	22.6	13185
	030U-120D	288	1200	1488	11.6	129	19% / 81%	24.3	18769
	055U-030D	557	289	846	6.1	138	66% / 34%	15.1	4522
	055U-055D	557	552	1109	8.1	137	50% / 50%	19	8637
	055U-085D	557	843	1400	10.4	135	40% / 60%	21.4	13185
	055U-120D	557	1200	1757	13.5	130	32% / 68%	23.3	18769
	085U-030D	840	289	1129	8.1	139	74% / 26%	13.9	4522
	085U-055D	840	552	1393	10.1	138	60% / 40%	18	8637
	085U-085D	840	843	1683	12.4	136	50% / 50%	20.5	13185
	085U-120D	840	1200	2040	15.5	132	41% / 59%	22.5	18769
	125U-030D	1262	289	1551	11.5	135	81% / 19%	12.6	4522
	125U-055D	1262	552	1814	13.5	135	70% / 30%	16.8	8637
	125U-085D	1262	843	2105	15.7	134	60% / 40%	19.5	13185
	125U-120D	1262	1200	2462	18.9	131	51% / 49%	21.6	18769

Note: Refer to IES files for more product data.

Notes:

(1) UGR values per CIE 190:2010 with 4H, 8H, Reflectance: 70% Ceiling, 50% Wall, 20% Ref. Plane

(2) For other UGR data for room or reflective ceiling plans please see technical data on website.

(3) Luminance measured at 45-90 degrees from nadir.

(4) UGR and Luminance values that meet WELL v2 L04 requirements for Managing Glare are shown with green highlighted cell. (UGR < 16, Luminance < 6,000, Indirect-only)

(5) UGR and Luminance values that meet LEED v4.1 requirements for Glare Control are shown with green text. (UGR < 19, Luminance < 7,000, Indirect-only)

(6) For technical data of other configurations please see photometric section on website or click link at top-right

Lumen Adjustment Table

CCT	3000K	3500K	4000K
CRI	80+	80+	80+
Lumen Multiplier	0.917	1	0.987

Example Calculation:

085D / 3500K / 80 CRI
Lumen Output selected = 843 lms/ft

3000K / 80 CRI Desired
Lumen Adjustment Factor = 0.917

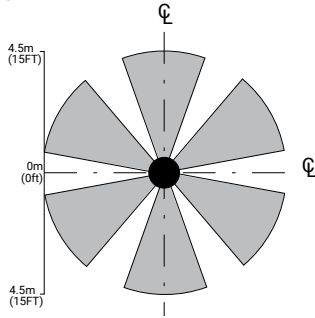Adjusted Lumen Output = 843 lms/ft x 0.917 = 773 lms/ft

Control Solutions

- WaveLinx LITE wireless
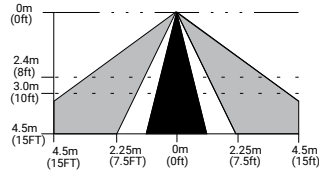- WaveLinx PRO wireless
- WaveLinx CAT wired
- WaveLinx Wired

WaveLinx
Digital Lighting
Control
Solutions

The Bryx with WaveLinx offers no-hassle lighting control with multiple luminaire level control solutions.

WaveLinx PRO is a wireless lighting control solution, for connected spaces, that significantly reduces a building's energy consumption. From a single floor to an entire campus, WaveLinx PRO connects more than lighting assets; it shares aggregated sensor data with the WaveLinx CORE platform and other building systems, so building owners can improve operations, spaces environment, and tenants' experience. WaveLinx PRO offers a rich portfolio of wireless devices, WaveLinx PRO-enabled luminaires, and an intuitive WaveLinx mobile app for office, education, warehouse, and parking garage applications.

WaveLinx LITE is a cost effective, wireless digital lighting control solution, with out-of-the-box functionality, that saves energy and meets code. It's designed for applications that require occupancy-based, daylighting, or manual light control. Customize installations for office, education, warehouse and parking garages using the secure, simple mobile app.

Integrated Sensor Coverage Pattern

TOP VIEW:

SIDE VIEW:

Note: Installation of integrated sensors within 3-ft (1m) of HVAC air vents is not recommended. The pattern shown is intended solely as a general guide and is not to scale.

With Integrated WaveLinx Sensor

Add a hidden WaveLinx sensor node (WPN, WLN) to your space lighting design!

Allows to:

- Keeps luminaire aesthetics
- Connect fixtures without the realestate to include sensor option such as downlights
- Connect sealed fixtures without a standard sensor option such as products for clinical space.

Integrated Controls Options

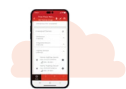| Option	Out of the Box Functionality	Luminaire Level Lighting Control (LLLC)	Automatic Dimming Photocell	Occupancy Sensing	CCT Control
WLS	X	X	X	X	
WLN		X			
WPS		X	X	X	X
WPN		X			X

Note: WaveLinx utilizes scenes to allow users to change an area's fixtures Correlated Color Temperature (CCT) and intensity using commissioned manual wireless wallstation scene control. To enable CCT adjustments through WaveLinx, include WPS or WPN devices in addition to VividTune or BioUp technologies for integrated fixture control.

Systems comparison chart

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

	Luminaire with standalone sensor	Standalone Spaces WaveLinx LITE	Standalone Spaces WaveLinx CAT	Networked Spaces WaveLinx PRO	Enterprise WaveLinx CORE
Occupancy	Yes	Yes	Yes	Yes	Yes
Daylighting	Yes	Yes	Yes	Yes	Yes
Wallstations	–	Yes	Yes	Yes	Yes
Gateways	–	–	–	1 WAC	300 WACs
Devices (MAX)	–	40 per Area (1120 per space)	40 per Area	200 per WAC2	32,500 per CORE Enterprise
Software	–	WaveLinx LITE Mobile App	WaveLinx CAT Mobile App	WaveLinx Mobile App	CORE
Areas	–	28 per Space	Unlimited	50 per WAC2	up to 3,000
Zones	–	16 per Area	16 per Area	16 per Area	up to 9,000
Scheduling	–	–	–	Local	Global
VividTune™	–	–	–	Yes	Yes
Plug-Load Control	–	Yes	Yes	Yes	Yes
Low-Voltage Power	–	–	Yes	Yes	Yes
Integration	–	–	–	–	BACnet, API
Dashboards	–	–	–	–	Energy, Occupancy
Configuration	–	Installer	Installer	Technician	Technician / IT

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