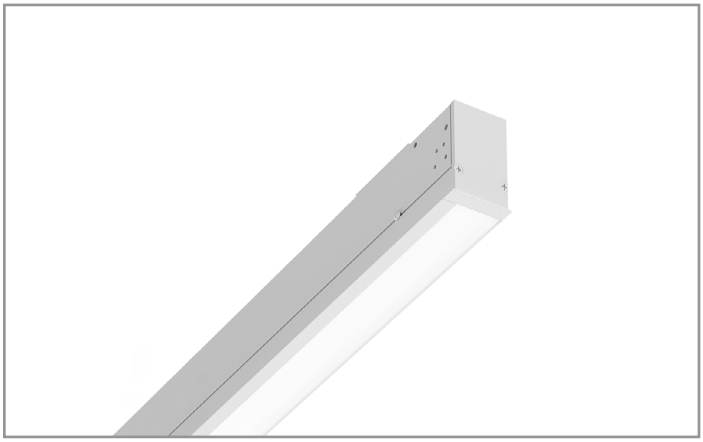
Project		**Catalog #**		**Type**	
Prepared by		**Notes**		**Date**	



NeoRay

Define | Perimeter | 2in

Direct Only

Typical Applications

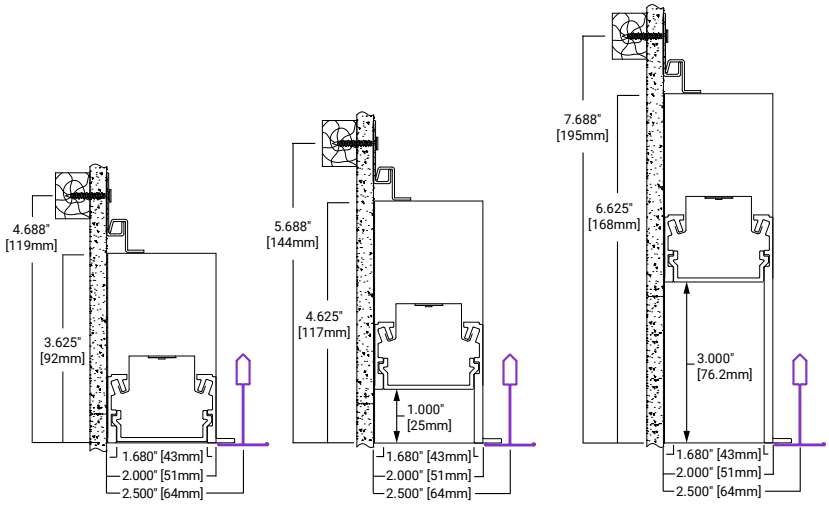
Education • Healthcare • Hospitality • Office • Retail • Transit

Interactive Menu

Top Product Features

- Define Recessed Perimeter family available in 2in, 3in, 4in, and 5in
- Multiple Optic options
- Continuously illuminated straight runs, corners, intersections, and patterns
- Wired and wireless controls
- VividTune and BioUp Technology
- Declare compliant

Dimensions



Flush Housing **1in Regress Housing** **3in Deep Regress Housing**

Order Information

SAMPLE ORDER NUMBER: **S122DRP-S500D935-FES24F0-1-UDD-F-BM-P**

Domestic Preference‡	Body			Output
	Series	Optic Compatibility	Direction & Location	Performance
[Blank] = Standard **BAA** = Buy American Act‡ **BABA** = Build America Buy American Act‡	**S122** = Define 2	**[Blank]** = Flush Housing **R** = 1in Regress Housing **R3** = 3in Deep Regress Housing	**DRP** = Direct Only Recessed Perimeter	**S** = Standard **H** = High Performance **V** = VividTune **B** = BioUp
Notes ‡Only product configurations with these prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or the Build America Buy America Act (BABA). BABA is the minimum Government compliance requirement for the Build America Buy America standards which is part of the Infrastructure and Investment Jobs Act (IIJA). Individual Government Agencies may have more stringent compliance standards. Please refer to the DOMESTIC PREFERENCES website or consult the CLS Domestic Preferences team for more information. Components shipped separately may be separately analyzed under domestic preference requirements.	**Notes**	**Notes** Use 1in Regress (R) or 3in Deep Regress (R3) compatible housing for regressed optic with Frosted Lens (F), Asymmetric Wall (A), Corridor (C), and Louvers (VL) only.	**Notes**	

Output (Cont'd)				Mounting		Pattern Length	
Direct Output	CRI	CCT		Ceiling Type	End Caps	Length	Max Section Length
290D = 290 Lm/ft Direct **485D** = 485 Lm/ft Direct **675D** = 675 Lm/ft Direct **865D** = 865 Lm/ft Direct **1005D** = 1005 Lm/ft Direct **_D** = Custom Lm/ft Direct	**8** = 80 CRI **9** = 90 CRI **B** = BioUp	**Static** **27** = 2700K **30** = 3000K **35** = 3500K **40** = 4000K **50** = 5000K	**VividTune** **2765** = 2600-6500K **3050** = 3000-5000K **BioUp Dynamic** **2750 =** 2700-5000K	**Grid Ceiling** **ETG** = 15/16in Flat T-Grid **ETT** = 15/16in Flat T-Grid with Tegular Tiles **FTG** = 9/16in Flat T-Grid **FTT** = 9/16in Flat T-Grid with Tegular Tiles **STG** = 9/16in Slotted Dimensional T-Grid **ITG** = 9/16in Interlude Dimensional T-Grid **Hard Ceiling** **GYP** = Visible Flange **FSR** = Flangeless (Mud-in) **Other Ceiling Systems** **FES** = Finished Extruded Side (Wood Slat, Wood Panel, Fabric, Metal, etc)	**[Blank]** = Standard End Caps **NF** = Flangeless End Caps **NB** = Flangeless End Cap at the Beginning **NE** = Flangeless End Cap at the End	**2F0** = 2ft **3F0** = 3ft **4F0** = 4ft **5F0** = 5ft **6F0** = 6ft **7F0** = 7ft **8F0** = 8ft **9F0** = 9ft **10F0** = 10ft **11F0** = 11ft **12F0** = 12ft **_F_**= Specify Length	**[Blank]** = Standard **/8** = 8ft Max Section Length
Notes Specify Lumen Output to the nearest 10Lm/ft: Min = 290Lm/ft | Max = 1,005Lm/ft 3in Deep Regress (R3) is available with Lumen Output ≤ 865Lm/ft only. Performance is based on 3500K 80CRI with Flush Frosted Lens and White housing. Reference Lumen Adjustment Factors table for more detail. Reference BioUp (B) section for output availability.	**Notes** VividTune (V) available with 90CRI 2600-6500K (92765) and 3000-5000K (93050) only. BioUp Static available with 3500K (B35), 4000K (B40), and 5000K (B50) only. BioUp Dynamic available with 2700-5000K (B2750) only. Reference BioUp (B) section for correlated CRI values.			**Notes**	**Notes** Use [Blank] to allow standard end caps that match selected Ceiling Type. Reference Ceiling Type section for additional details.	**Notes** Specify individual luminaire, linear run, or total custom pattern lengths in xft/xin increments (ex. 37F10 = 37ft 10in). Please include the angle for each illuminated corner and intersection when providing sketch/drawing (ex. A045 = 45°). Min fixture length is 2ft. Nominal lengths. Reference drawings for total length (including end caps and flanges). Reference BioUp section for minimum length available with BioUp (B).	**Notes** Use [Blank] to allow for up to 12ft Individual luminaires. Use 8ft Max Section Length (/8) to limit max individual, run, and pattern section lengths to 8ft.

Electrical Wiring		Electrical		Optics
Circuiting	Emergency Options	Voltage	Wired Controls	Direct Optics
1 = Single Circuit **S** = Secondary Circuit	**[Blank]** = None **E** = Emergency Circuit **B1** = 7W External Battery **B2** = 14W 7W External Battery **B3** = 6W External Battery **T** = UL924 Bypass Relay Device	**U** = Universal (120V-277V) **1** = 120V **2** = 277V **3** = 347V	**DD** = Standard 0-10V (1%-100%) **Other** **5L** = Fifth Light DALI (5%-100%) **LH** = Lutron EcoSystem DALI (1%-100%) **For use with VividTune** **W2A** = 2-Channel 0-10V **For use with Dynamic BioUp** **W2A** = 2-Channel 0-10V **W2D** = 2-Channel DALI	**F** = Frosted Lens (Diffuse) **D** = Frosted 1in Drop Lens (Diffuse) **A** = Asymmetric Wall **C** = Corridor **WVL** = White Louver w/ Frosted Lens **SVL** = Silver Louver w/ Frosted Lens **BVL** = Black Louver w/ Frosted Lens
Notes Secondary Circuit (S) allows A/B switching within a run or Pattern (P).	**Notes** Battery and UL924 Bypass Relay Device are available with 120V-277V (U, 1, or 2) only. Battery (B1 and B2) options available with 0-10V (DD or W2A) and single channel DALI (5L or LH) Controls options only. Reference Emergency Options product specification notes and Battery Location tables for additional details.	**Notes** 347V (3) available with Standard 0-10V (DD) Controls option only	**Notes** Use Standard 0-10V (DD) for Static BioUp (B). 2-Channel 0-10V (W2A) available with VividTune (V) and Dynamic BioUp (B2750) only. 2-Channel DALI (W2D) available with Dynamic BioUp (B2750) only. Fifth Light DALI (5L) available with 1% dimming upon request.*	**Notes** Use [Blank] with Indirect Only luminaire Louvers (VL) available with 1in Regress (R) or 3in Deep Regress (R3) compatible housing in 1ft increments only. Louvers (VL) available in <1ft increments and custom Pattern (P) by request.* Asymmetric (A) and Corridor (C) available with VividTune upon request.* Performance is based on 3500K 80CRI with Flush Frosted Lens and White housing. Reference Lumen Adjustment Factors table for more detail.

*Note: Options listed as "available by request" require review and may impact pricing and leadtime.

Order Information

SAMPLE ORDER NUMBER: **S122DRP-S500D935-FES24F0-1-UDD-F-BM-P**

-	Electrical Options	-	Options Body Finish	-	Wireless Controls	-	Pattern Type	-	Special Options*
-	**[Blank]** = None **CP** = Chicago Plenum	-	**W** = White **S** = Silver **B** = Black (Semi-Gloss) **BM** = Black (Matte) **RR** = Real Red **OO** = Oasis Orange **YY** = Yippee Yellow **GG** = Gracious Green **CC** = Cyprus Cyan **TT** = Totally Turquoise **BB** = Biosphere Blue **PP** = Perfect Purple **VV** = Vacation Violet **MM** = Magic Magenta **C** = Custom Color (RAL) **CM** = Custom Color (Match)	-	**[Blank]** = None **Wavelinx Wireless** **WPS** = WaveLinx PRO Integrated Sensor **WLS** = WaveLinx LITE Integrated Sensor **WPST** = WaveLinx PRO Tilemount Sensor **WLST** = WaveLinx LITE Tilemount Sensor	-	**[Blank]** = Individual or Straight Run **P** = Pattern	-	**[Blank]** = None **FC** = Field Cuttable End* **FE** = Field Extendable End* **SHRD** = Shallow Housing w/ Remote Driver* **MRI** = MRI Room w/ Remote Driver*
-	**Notes** Reference Battery Location tables for Chicago Plenum (CP) with Battery.	-	**Notes** Custom Colors (C and CM) are available by request.* Performance is based off White (W) and may vary with selected finish.	-	**Notes** WaveLinx is available with (DD) and Single Circuit (1) only. Integrated Sensors with Louvers, Regress, Deep Regress, or Drop Lenses available by request.* Integrated Sensors combined with Emergency Circuit (E) require one UL924 Bypass Relay (T) per emergency fixture.	-	**Notes** Please include the angle for each illuminated corner and intersection when providing sketch/drawing (ex. A045 = 45°) for a custom Pattern (P).	-	**Notes** **All special options available by request.** Multiple Special Option Codes may be specified with a "-" to separate. (ex. XX-YY-ZZ) Field Cuttable End (FC) extends the end-of-run housing 4in beyond the requested length providing an unlit field cuttable section. Field Extendable End (FE) allows for extension of the end-of-run housing 4in beyond the requested length with an extendable rear housing cover. Shallow Housing with Remote Driver (SHRD) reduces the housing height by including a remote driver housing solution. MRI Room with Remote Driver (MRI) provides a non-ferrous housing solution and includes a remote driver housing solution.

*Note: Options listed as "available by request" require review and may impact pricing and leadtime.

Product Specifications

Domestic Preference‡

- ‡Only product configurations with these prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or the Build America Buy America Act (BABA). BABA is the minimum Government compliance requirement for the Build America Buy America standards which is part of the Infrastructure and Investment Jobs Act (IIJA). Individual Government Agencies may have more stringent compliance standards. Please refer to the DOMESTIC PREFERENCES website or consult the CLS Domestic Preferences team for more information. Components shipped separately may be separately analyzed under domestic preference requirements.

Serviceability

- Snap-in lens allows easy access to optical cavity and light engine.
- Removable modular light engine tray with quick disconnect wire-harness for ease of installation and maintenance over the life of the luminaire
- Declare. End of Life Options:
  Salvageable/Reusable in its Entirety, >90% Recyclable

Construction

- Precision cut housing trim extruded from 6063 aluminum with aluminum frame
- Flush, 1in Regress, and 3in Deep Regress Housing options available

Individuals, Runs, Patterns

- Fully luminous individual luminaires, straight runs, or custom patterns
- Patterns constructed using precision mitered housing and lens components
- The frame is welded to ensure a precise and robust housing
- Specify individual luminaire, linear run, or total custom pattern lengths in xft/xin increments
- Minimum fixture length is 23in
- All lengths are nominal lengths and do not include end flanges; reference drawings for total lengths.
- Actual sizes are 1in shorter than nominal to account for easy on-center Grid Ceiling installation (ex. 4F0 for 47in length).
- Add 1in to overall fixture length for Hard Ceiling installation (ex. 4F1 for 48in length)
- 8ft Max Section Length used on straight runs and patterns; use 8ft Max Section Length to limit max individual, run, and pattern section lengths to 8ft

Output

- Specify Custom Lumen Output to the nearest 10Lm/ft
- Available in Static 2700K, 3000K, 3500K, 4000K, 5000K
- CRI ≥80CRI or ≥90CRI
- Nominal performance is based on 3500K 80CRI with Flush Frosted Lens and White Housing; reference Lumen Adjustment Factors table for more detail.
- Extrapolated LED lifetime per TM-21:
  Greater than L90 at 61,000 hrs
  L70 exceeding 100,000 hrs
- Available in 120-277V, 347V
- VividTune Tunable White available in Dynamic 2600K-6500K or 3000K-5000K; reference VividTune section for additional details.
- BioUp Melanopic Lighting available in Static 3500K, 4000K, 5000K or Dynamic 2700K-5000K
- BioUp CRI ranges from >80CRI to 96CRI
- Reference BioUp section for additional details including Melanopic Daylight Efficacy Ratio (MDER)

Optics

- Patented solution provides consistent illumination with no pixelation at the ends of individual luminaires, straight runs, and patterns.
- Direct Optics
  F (or FLL): Frosted lens (Diffuse) with Lambertian distribution
  D: Frosted 1in Drop Lens with Wide Lambertian distribution
  A: Frosted lens with Asymmetric distribution directed toward the wall
  C: Frosted lens with Asymmetric distribution directed away from the wall for a Corridor fill
  VL: Premium straight blade Louver with metal construction and Frosted lens. 1in regress with 1in spacing provides superior low glare 45° cutoff

Emergency Options

- Battery operates entire downlight portion of individual luminaires < 7ft
- Battery operates 4ft sections of longer luminaires, runs, and patterns
- Reference Battery Location section for additional details
- UL924 Bypass Relay Device available as emergency generator transfer option
- Emergency Circuit combined with Integrated Sensors require one UL924 Bypass Relay per emergency fixture

Integrated Controls

- 0-10V dimming to 1% standard
- Fifth Light DALI dimming to 5% standard; Fifth Light DALI dimming to 1% available by request*
- Lutron EcoSystem DALI dimming to 1% standard
- Additional control types may be available by request*
- Reference Sensor Placement section for default integrated sensor locations of individual luminaires and straight runs
- Please include preferred integrated sensor locations when providing sketch/drawing for a custom Pattern (P)

Mounting

- Compatible with Multiple Grid Ceiling, Drywall Ceiling, and Other Ceiling Systems
- Reference Mounting section and installation instructions for additional details

Finish

- Electrostatically applied polyester powder coat paint
- See Finish Options section for additional details
- RAL Colors and Custom Match Colors available by request*

Special Options*

- *All special options available by request*
- *Any options listed as 'available by request' require review and may impact pricing and leadtime
- Consult factory to request any options not listed
- Reference the Mods Collection for common special option requests

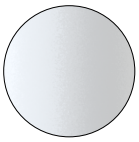
Compliance

- UL listed for damp locations
- IC Rated for insulation contact (except where noted)
- RoHS
- Tested to IESNA LM-79 and LM-80
- Can be used for State of California Title 24 high efficacy luminaire
- DLC qualified options available
- Declare Compliant

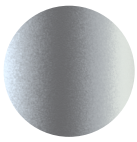
Warranty

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

Finish Options



W - White



S - Silver

B - Black
Semi-Gloss

BM - Black
Matte

RR - Real Red
RAL 3020
Gloss

OO - Oasis Orange
RAL 2004
Gloss

YY - Yippee Yellow
RAL 1018
Gloss

GG - Gracious Green
RAL 6018
Gloss

CC - Cyprus Cyan
RAL 6027
Gloss

TT - Totally Turquoise
RAL 5018
Gloss

BB - Bioshere Blue
RAL 5017
Gloss

PP - Perfect Purple
RAL 4005
Gloss

VV - Vacation Violet
RAL 4008
Gloss

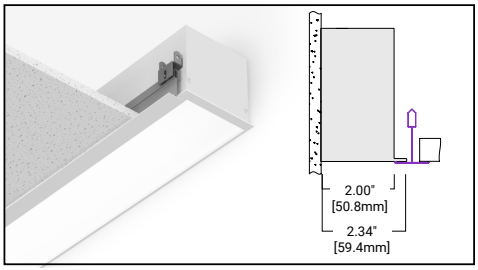
MM - Magic Magenta
RAL 4010
Gloss

*RAL Colors & Custom Match Colors available by request**

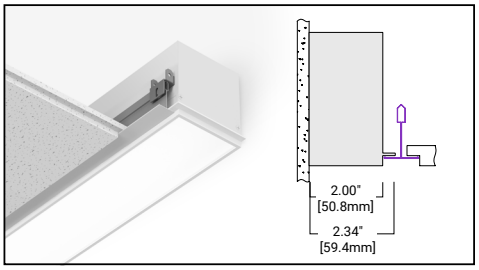
Ceiling Type

Grid Ceiling

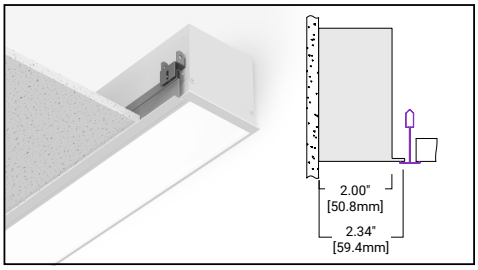
15/16in Flat T-Grid (ETG)



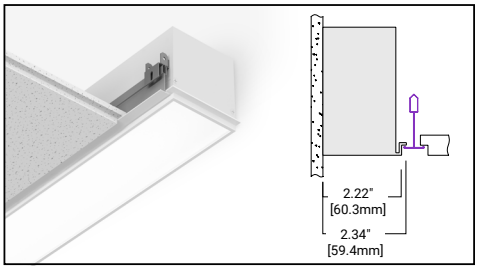
15/16in Flat T-Grid w/ Tegular Tiles (ETT)



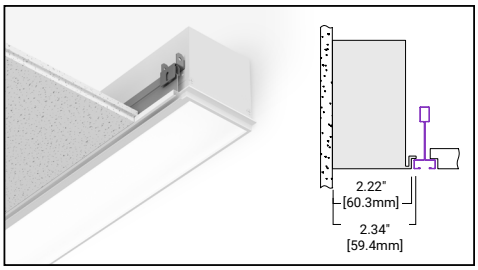
9/16in Flat T-Grid (FTG)



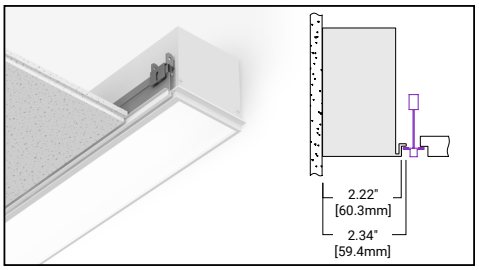
9/16in Flat T-Grid w/ Tegular Tiles (FTT)



9/16in Slotted Dimensional T-Grid (STG)

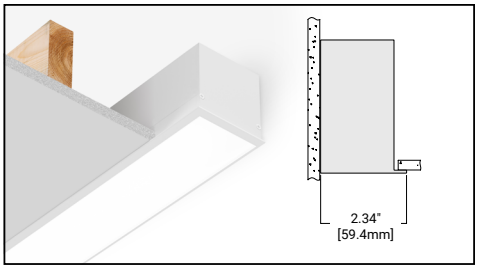


9/16in Interlude Dimensional T-Grid (ITG)

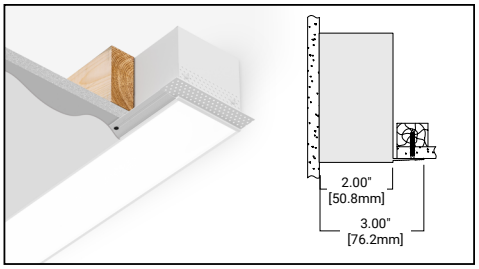


Hard Ceiling

Visible Flange (GYP)

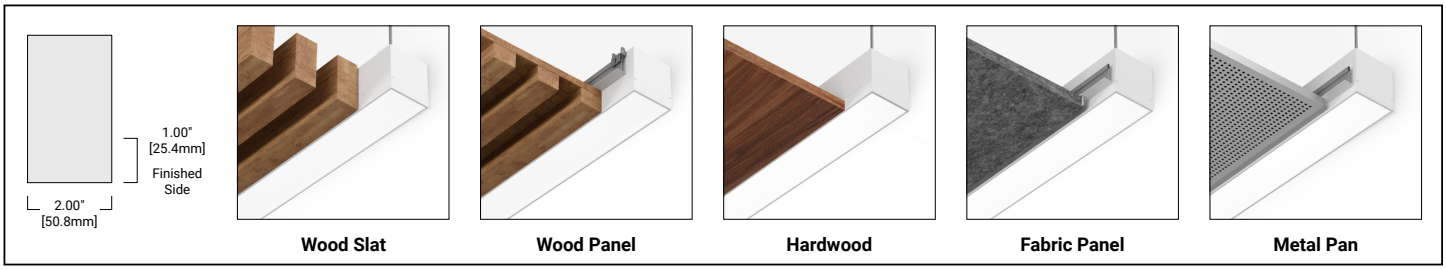


Flangeless Mud-In (FSR)

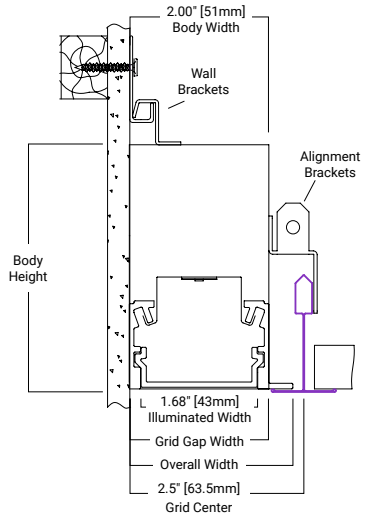


Other Ceiling Systems

Finished Extruded Side (FES)

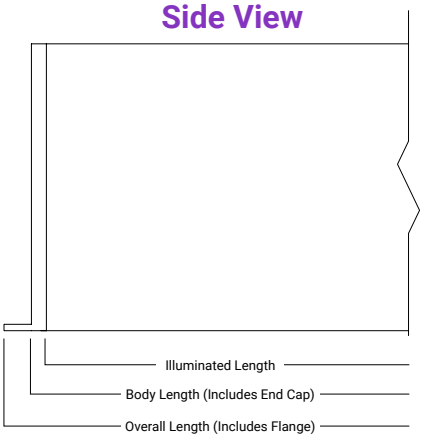


Cross Section



Body Optic Compatibility	Body Height
Flush Housing	3.625in [92mm]
1in Regressed Housing (R)	4.625in [117mm]
3in Deep Regressed Housing (R3)	6.625in [168mm]

Side View



Note: All lengths are nominal. Reference submittal drawings for exact lengths.

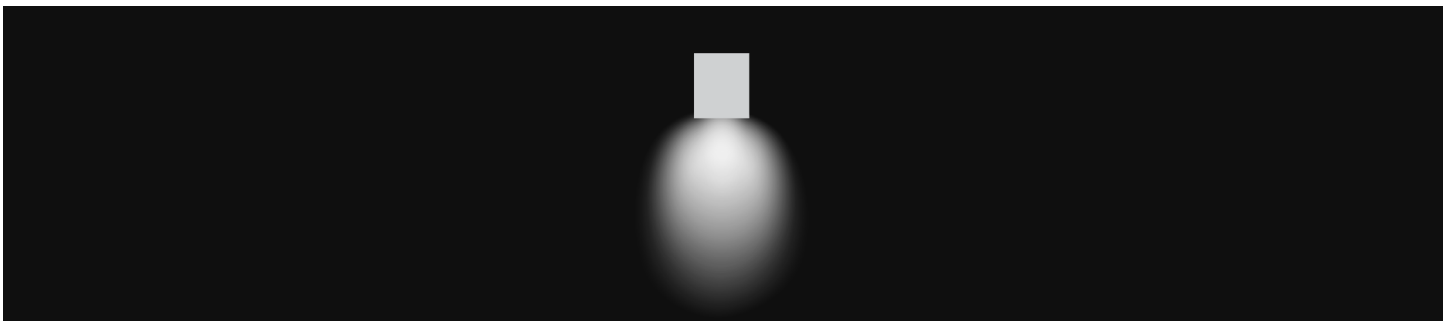
Ordered length is the Body Length which includes the end cap and does not include the length of the flange on Ceiling Types with a flange. Flangeless End Cap options (NF, NB, NE) will keep the Body Length the same while reducing the Overall Length by excluding the Flange.

Actual length is 1in shorter than nominal ordered length to account for easy on-center Grid Ceiling installation.

For example, an ordered length of 4F0 will have a Body Length of 47in with an Overall Length of 47.75in inclusive of the flange. All end flanges are the same length as their corresponding side flanges.

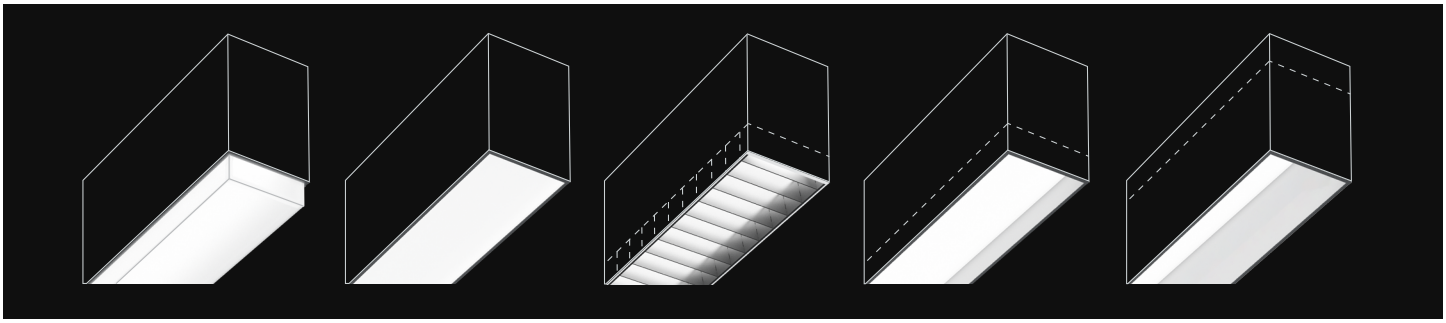
Add 1in to ordered length for Hard Ceiling installation (ex. 4F1 for 48in Body Length)

Direction



Direct Only (D)

Optic Types



Drop Lens (D)
1in Drop

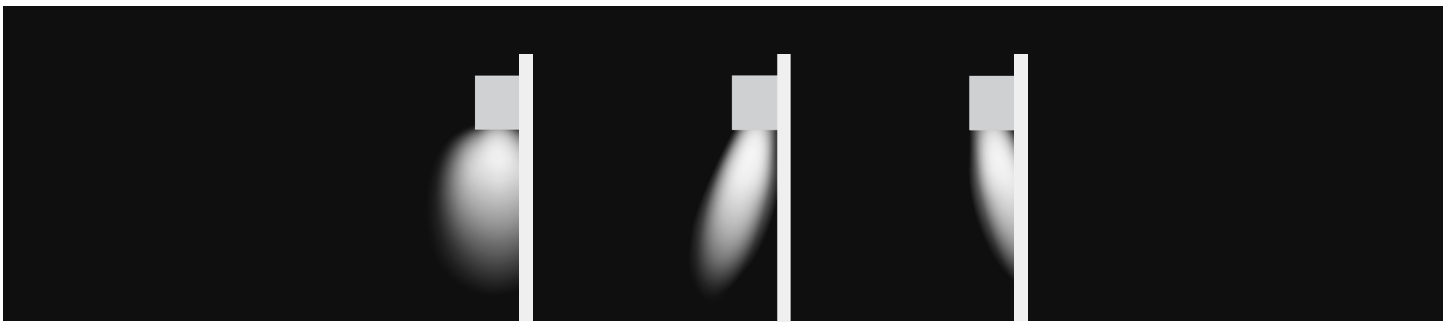
Flush Lens (F)

Louver (VL)

Regress (R)
1in Regress

Deep Regress (R3)
3in Regress

Optic Distributions

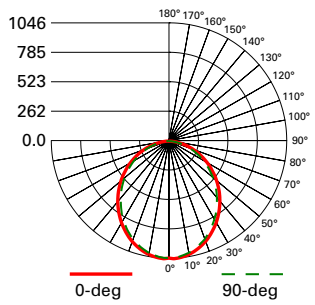


Lambertian

Corridor (C)

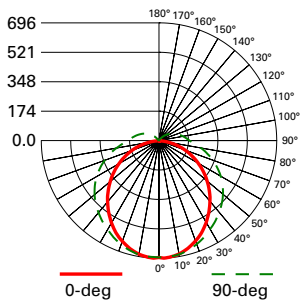
Asymmetric Wall (A)

Photometric Data - Static White LED Technology



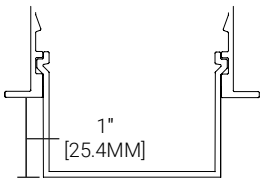
Flush Frosted Lens (F)

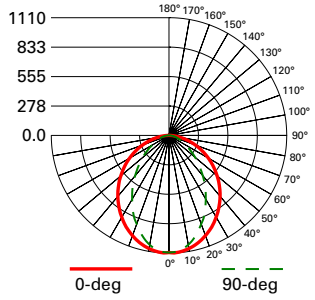
FILE NAME:
S122DR-S675D835-GYP4F0-1-UDD-F-W
LUMENS: 2646 Lms
LPW: 100.6 LPW
CCT: 3500K
WATTS: 26.3 W
TEST NUMBER: G3-1802-639-10



Frosted 1in Drop Lens (D)

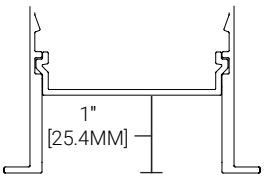
FILE NAME:
S122DR-S675D835-GYP4F0-1-UDD-D-W
LUMENS: 2633 Lms
LPW: 99.7 LPW
CCT: 3500K
WATTS: 26.4 W
TEST NUMBER: G3-1802-639-14

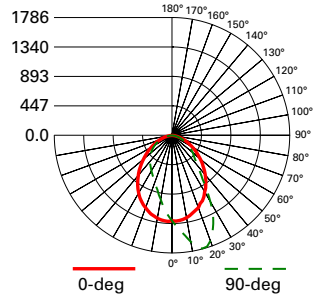




1in Regress Frosted Lens (RD + F)

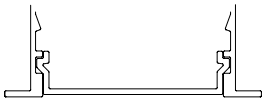
FILE NAME:
S122RDR-S675D835-GYP4F0-1-UDD-F-W
LUMENS: 2273 Lms
LPW: 86.4 LPW
CCT: 3500K
WATTS: 26.3 W
TEST NUMBER: G3-1802-639-24





Flush Asymmetric (A)
Flush Corridor (C)

FILE NAME:
S122DR-S675D835-GYP4F0-1-UDD-A-W
LUMENS: 2870 Lms
LPW: 108.7 LPW
CCT: 3500K
WATTS: 26.4 W
TEST NUMBER: G3-1802-639-19



Photometric Overview and Performance Data

Direct Performance Per Linear Foot at 3500K/80CRI

Nominal Output	Standard		High Performance		VividTune	
lms/ft	W/ft	lm/W	W/ft	lm/W	W/ft	lm/W
290	3.0	99	2.9	102	3.0	99
485	4.8	101	4.4	108	4.8	101
675	6.8	100	6.1	108	6.8	100
865	8.9	97	8.1	106	8.9	97
1005	10.6	95	9.7	103	10.6	95

Lumen Adjustment Factors

Body Finish	Direct Optics	
White (W)	Flush Frosted Lens (F)	1.000
	Asymmetric Wall (A)	1.085
	Corridor (C)	1.085
	Drop (D)	0.995
	1in Regress Frosted (RD + F)	0.859
	1in Regress Asymmetric Wall (RD+A)	1.085
	1in Regress Corridor (RD+C)	1.085
	3in Deep Regress Frosted (R3D + F)	0.671
	White Louver w/ Frosted Lens (WVL)	0.562
	Silver Louver w/ Frosted Lens (SVL)	0.303
	Black Louver w/ Frosted Lens (BVL)	0.252
Silver (S)	3in Deep Regress Frosted (R3D + F)	0.347
	White Louver w/ Frosted Lens (WVL)	0.416
	Silver Louver w/ Frosted Lens (SVL)	0.242
	Black Louver w/ Frosted Lens (BVL)	0.209
Black (B)	3in Deep Regress Frosted (R3D + F)	0.293
	White Louver w/ Frosted Lens (WVL)	0.353
	Silver Louver w/ Frosted Lens (SVL)	0.199
	Black Louver w/ Frosted Lens (BVL)	0.165

CCT	80CRI	90CRI
2700K	N/A	0.792
3000K	0.943	0.815
3500K	1.000	0.861
4000K	1.010	0.892
5000K	1.010	0.892

Lumen Maintenance

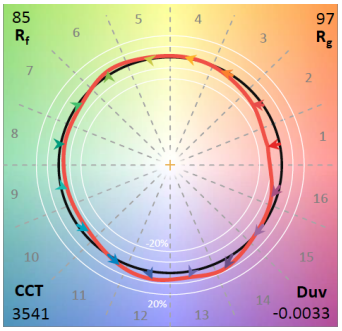
Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours) (1)	Theoretical L70 (Hours) (2)
25°C	>90%	>100,000

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.

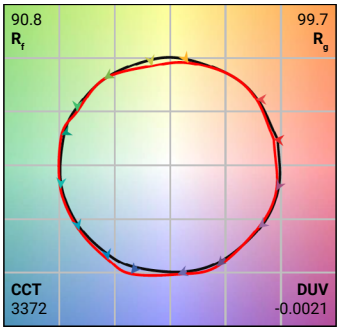
Color Data (3500K)

		80CRI	90CRI
TM-30-15	R_f	85.3	90.8
	R_g	97.3	99.7
CRI/CIE	R_a	85.2	94.8
	R_9	17.2	70.7

80CRI



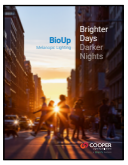
90CRI



Proven Research. Industry Recognized.

BioUp
Melanopic Lighting

See better | Feel better | Function better



See BioUp brochure for more details

ANSI/IES RP-46-23

Illuminating Engineering Society

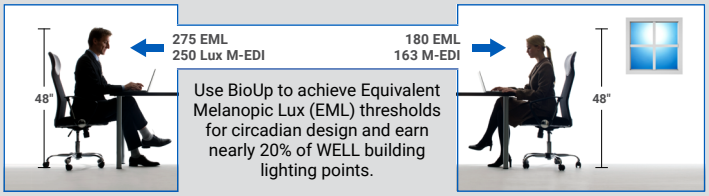
RECOMMENDED PRACTICE:
SUPPORTING THE PHYSIOLOGICAL AND BEHAVIORAL EFFECTS OF LIGHTING IN INTERIOR DAYTIME ENVIRONMENTS
AN AMERICAN NATIONAL STANDARD

ANSI/IES RP-46-23 / TM18 published March 2024 based on over 40 years of research.

"…circadian clock synchronization is paramount to the body's efficient and appropriate functioning." – TM18

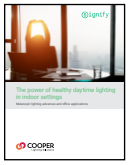
INTERNATIONAL WELL BUILDING INSTITUTE™

BioUp solutions maximize WELL points for Circadian Lighting Design (L03):



Use BioUp to achieve Equivalent Melanopic Lux (EML) thresholds for circadian design and earn nearly 20% of WELL building lighting points.

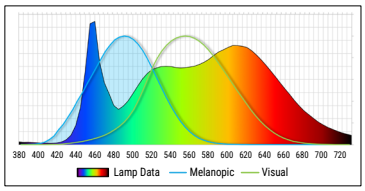
MDER, M-EDI and **EML** are key metrics used to quantify non-visual performance of indoor lighting systems.



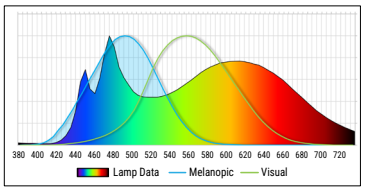
See BioUp white paper for more details

MDER - Melanopic Daylight Efficacy Ratio (MDER) measures the amount of light stimulating to the melanopsin receptors.

Standard 4000K LED
MDER = .62



BioUp 4000K LED
MDER = .82



30% boost Biological impact
compared to traditional LED sources

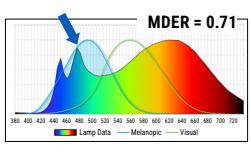
CCT	LED MDER ~83 CRI	BioUp Static		BioUp Dynamic	
		MDER	CRI	MDER	CRI
2700K	0.44	–	–	0.43	95
3000K	0.49	–	–	0.54	94
3500K	0.56	0.71	90	0.71	90
4000K	0.64	0.84	87	0.82	87
5000K	0.77	0.98	84	0.98	84

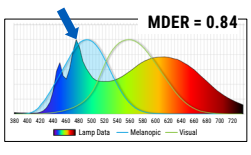
BioUp enhances the LED spectrum with cyan light at 475nm increasing the biological impact of the light to enhance our circadian rhythm which regulates our sleep/wake cycle, daytime engagement, and mood – ***all without distorting visual color impression.***

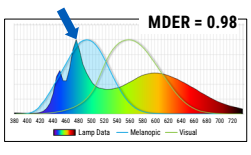
Static (non-tunable)

Static BioUp is used when simple Melanopic Lighting is desired at all times.

Arrow in graph shows BioUp spectrum boost is at 475nm where non-visual biological response is enhanced.







3500K or 4000K or 5000K

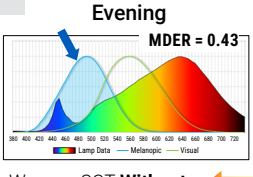
Cyan light component always present

› no CCT control needed

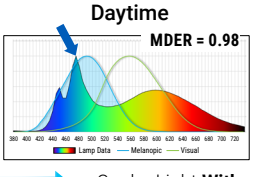
Dynamic - (Tunable)

Dynamic BioUp is used when Melanopic Lighting is desired to adjust during the day.

Evening



Daytime



Warmer CCT **Without** Cyan content ⟷ Cooler Light **With** Cyan content

2700K – 5000K

› Control with Wavelinx, 2ch 0-10V, or DALI

BioUp Photometry

Legend: • Available
- Unavailable

2in	DIRECT	
Nominal Output	BioUp Light Engine	B35 efficacy
lm/ft	W/ft	lm/W
290	-	-
485	5.9	82.2
675	8.6	78.5
865	11.1	77.9
1005	15.0	67.0

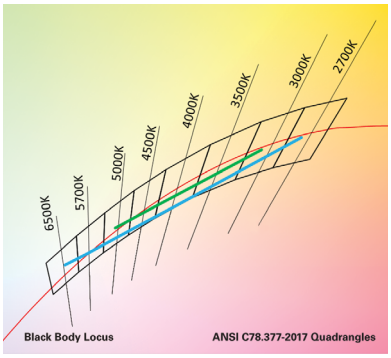
0-10V						
Availability						
Lumens/ft		290	485	675	865	1005
Fixture Length	2	-	-	-	-	-
	3	-	-	-	-	-
	4	-	•	•	•	•
	5	-	•	•	•	•
	6	-	•	•	•	•
	7	-	•	•	•	•
	8	-	•	•	•	•
	9	-	•	•	•	•
	10	-	•	•	•	•
	11	-	•	•	•	•
	12	-	•	•	•	•

DALI						
Availability						
Lumens/ft		290	485	675	865	1005
Fixture Length	2	-	-	-	-	-
	3	-	-	-	-	-
	4	-	•	•	•	-
	5	-	•	•	•	-
	6	-	•	•	•	-
	7	-	•	•	•	-
	8	-	•	•	•	-
	9	-	•	•	•	-
	10	-	•	•	•	-
	11	-	•	•	•	-
	12	-	•	•	•	-

VividTune™
color tuning solutions

Define with VividTune Tunable White

VividTune tunable white luminaires deliver high-quality light in a broad range of continuously variable color temperatures and intensities. Create a dynamic environment by adjusting the ambient light warmer or cooler to influence mood, support the task at hand, or create a dramatic ambience. The ability to control correlated color temperature and intensity separately using simple controls is the next evolution of LED lighting for the commercial, educational, healthcare and hospitality space. The unparalleled flexibility and number of available lighting environments enable users to find the right light with tunable white.

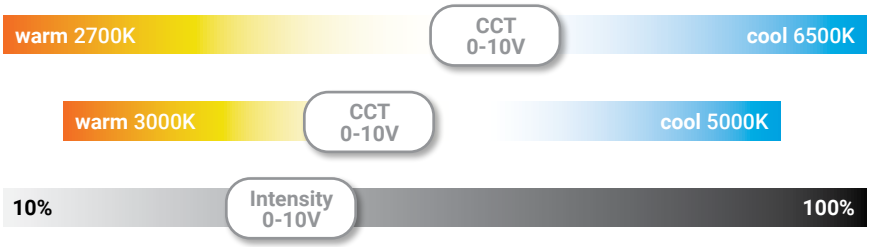


Performance Data

Tunable White - Lumen Adjustment Factors				
CCT	3000K-5000K		2700K-6500K	
	80 CRI	90 CRI	80 CRI	90 CRI
2700K	-	-	0.868	0.741
3000K	0.894	0.736	0.893	0.771
3500K	0.946	0.804	0.924	0.809
4000K	0.993	0.868	0.944	0.835
4500K	1.002	0.883	0.961	0.857
5000K	1.002	0.883	0.974	0.874
6500K	-	-	0.988	0.897

Controlling VividTune Tunable White

VividTune luminaires make tunable white more accessible by using simple and familiar controls. From wall dimmers to wireless controls, VividTune tunable white luminaires are compatible with industry standard 0-10V dimming controls. A single 0-10V dimming input is used to control intensity (brightness) while a second 0-10V dimming input is used to adjust CCT. For suggested control configurations, go to www.cooperlightingsolutions.com for tunable white application guides.



Control Solutions

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

WaveLinx Digital Lighting Control Solutions

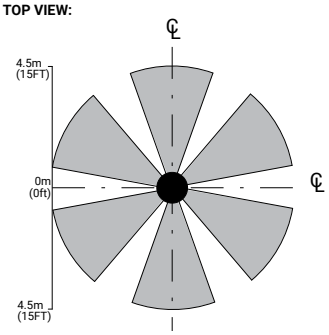
Define with WaveLinx offers no-hassle lighting control with multiple luminaire level control solutions.

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.

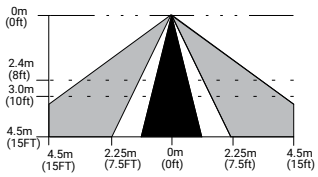
WaveLinx LITE is a cost effective, wireless digital lighting control solution, with out-of-the-box functionality, that saves energy and meets code. It's designed for applications that require occupancy-based, daylighting, or manual light control. Customize installations for office, education, warehouse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

Integrated Sensor Coverage Pattern

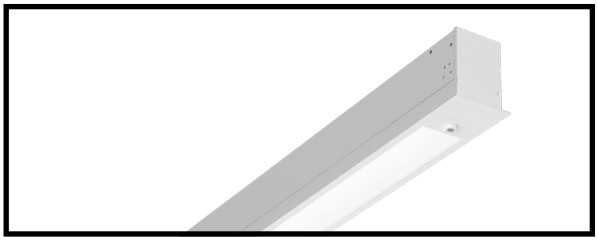
TOP VIEW:



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.*



Luminaire with standalone sensor

Standalone Spaces WaveLinx LITE

Standalone Spaces WaveLinx CAT

Networked Spaces WaveLinx PRO

Enterprise WaveLinx CORE

	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

SCALABILITY

devices → areas → floors → buildings

WaveLinx expands from a single standalone device up to Enterprise with 32,500 devices

**Note: WaveLinx LITE devices can be upgraded to WaveLinx PRO via an OTA firmware update. The OTA and system configuration can only be performed by Cooper Lighting Solutions specialists. WaveLinx Area Controller(s) would also need to be added to complete the solution.*

Integrated Sensors

Refer to default sensor details below for integrated sensor locations of individual and straight runs. Please include preferred integrated sensor locations when providing sketch/drawing for a custom pattern.

○ Standard Sensor with Luminaire Control
⊗ Auxiliary Sensor used for Sensor Coverage

Individual Luminaire Default Sensor Placement

≤8ft Individual ○

>8ft Individual ○ ⊗

Straight Run Default Sensor Placement

Beginning of Run (BOR) ○

Intermediate Section (INT) ○

⊗

End of Run (EOR) > 4ft ○

○

End of Run (EOR) ≤ 4ft

Battery Location Details

Battery Location

	< 4ft	≥ 4ft
Define 2	External (B1 or B2)	External (B1 or B2) or Internal (B3) IC Rated < 865Lm/ft
Define 3	External (B1 or B2)	Internal (B1, B2, B3) IC Rated < 1000Lm/ft
Define 4	External (B1 or B2)	Internal (B1, B2, B3) IC Rated < 1020Lm/ft
Define 5	External (B1 or B2)	Internal (B1, B2, B3) IC Rated < 1090Lm/ft

Chicago Plenum Battery Location

	< 4ft	≥ 4ft
Define 2	Consult Factory	Internal (B3) IC Rated < 865Lm/ft
Define 3	Consult Factory	Internal (B1, B2, B3) IC Rated < 1000Lm/ft
Define 4	Consult Factory	Internal (B1, B2, B3) IC Rated < 1020Lm/ft
Define 5	Consult Factory	Internal (B1, B2, B3) IC Rated < 1090Lm/ft

Luminaire Weight (lbs/ft)

2.65