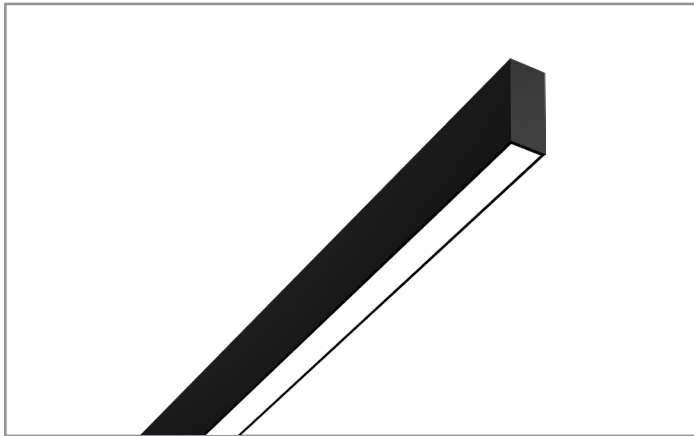


<b>Project</b>		<b>Catalog #</b>		<b>Type</b>	
<b>Prepared by</b>		<b>Notes</b>		<b>Date</b>	



**Neoray**

## Define | Wall | 2in

Direct Only  
Direct + Indirect  
Indirect Only

### Typical Applications

Education • Healthcare • Hospitality • Office • Retail • Transit

### Interactive Menu

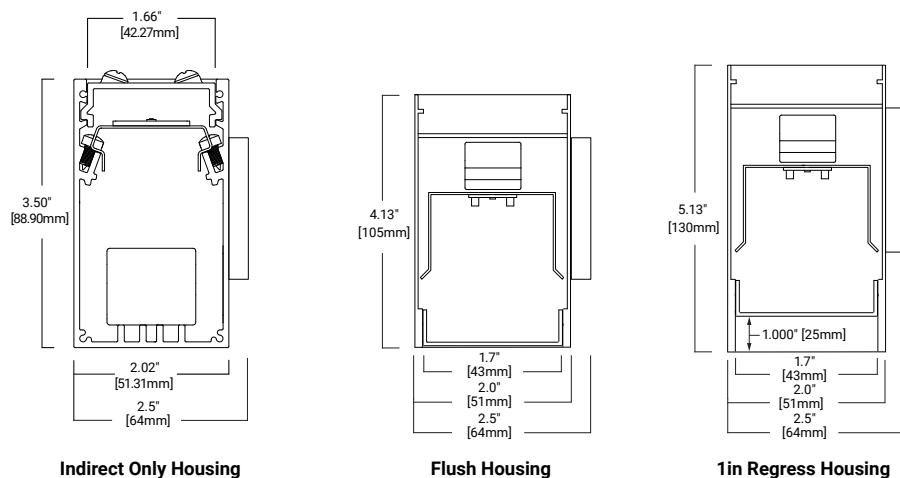
- Order Information [page 2](#)
- Photometric Data [page 6](#)
- Energy and Performance Data [page 7](#)
- Control Solutions [page 11](#)
- Product Limited Warranty



### Top Product Features

- Define Wall mount family available in 2in, 3in, 4in, and 5in
- Multiple Optic options
- Independently specifiable Direct and Indirect Outputs
- Continuously illuminated straight runs, corners, intersections, and patterns
- Wired and wireless controls
- VividTune and BioUp Technology

### Dimensions



Order Information

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

SAMPLE ORDER NUMBER: **S122DIW-C500D500U935-24F0-1-UDD-F1-BM-P**

Domestic Preference‡	Delivery	Body			Output Performance
		Series	Optic Compatibility	Direction & Location	
[Blank] = Standard BAA = Buy American Act BABA = Build America Buy American Act	[Blank] = None QS = Quick Spec	S122 = Define 2	[Blank] = Flush Housing R = 1in Regress Housing	DW = Direct Only Wall DIW = Direct & Indirect Wall IW = Indirect Only Wall	C = Standard H = High Performance V = VividTune B = BioUp
<b>Notes</b> ‡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.	<b>Notes</b> Grey bar denotes option available with 10-Day Quick Spec	<b>Notes</b>	<b>Notes</b> Use 1in Regress compatible body for 1in Regress optic with Frosted Lens (F) and Louvers (VL) only. Available with Direct Only (D) and Direct + Indirect (DI) luminaires only.	<b>Notes</b>	<b>Notes</b> VividTune (V) available by request*

Output (Cont'd)				Pattern Length		
Direct Output	Indirect Output	CRI	CCT		Length	Max Section Length
[Blank] = None 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	[Blank] = None 435U = 435 Lm/ft Indirect 710U = 710 Lm/ft Indirect 970U = 970 Lm/ft Indirect 1240U = 1240 Lm/ft Indirect 1440U = 1440 Lm/ft Indirect _U = Custom Lm/ft Indirect	8 = 80 CRI 9 = 90 CRI B = BioUp	<b>Static</b> 27 = 2700K 30 = 3000K 35 = 3500K 40 = 4000K 50 = 5000K	<b>VividTune</b> 2765 = 2600-6500K 3050 = 3000-5000K <b>BioUp Dynamic</b> 2750 = 2700-5000K	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
<b>Notes</b> Use [Blank] with Indirect Only (I) luminaire. Specify Lumen Output to the nearest 10Lm/ft: Min = 290Lm/ft   Max = 1,000Lm/ft 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.	<b>Notes</b> Use [Blank] with Direct Only (D) luminaire. Specify Lumen Output to the nearest 10Lm/ft: Min = 435Lm/ft   Max = 1,440Lm/ft Performance is based on 3500K 80CRI with No Lens and White housing. Reference Lumen Adjustment Factors table for more detail. Reference BioUp (B) section for output availability.	<b>Notes</b> 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.	<b>Notes</b>		<b>Notes</b> 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 3ft. Nominal lengths. Reference drawings for total length (including end caps). Reference BioUp section for minimum length available with BioUp (B).	<b>Notes</b> 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	
Circuiting	Emergency Options	Voltage	Wired Controls
1 = Single Circuit 2 = Dual Circuit S = Secondary Circuit	[Blank] = None E = Emergency Circuit B3 = 6W Internal Battery T = UL924 Bypass Relay Device	U = Universal (120V-277V) 1 = 120V 2 = 277V 3 = 347V	DD = Standard 0-10V (1%-100%)  <b>Other</b> 5L = Fifth Light DALI (5%-100%) LH = Lutron EcoSystem DALI (1%-100%)  <b>For use with VividTune</b> W2A = 2-Channel 0-10V  <b>For use with Dynamic BioUp</b> W2A = 2-Channel 0-10V W2D = 2-Channel DALI
<b>Notes</b> Dual Circuit (2) allows for independent Direct and Indirect Circuits. Secondary Circuit (S) allows A/B switching within a run or Pattern (P).	<b>Notes</b> Battery and UL924 Bypass Relay Device are available with 120V-277V (U, 1, or 2) only. Battery in a 4ft Direct + Indirect (DI) luminaire is available with Standard 0-10V (DD) Controls option only. Reference Emergency Options product specification notes and Battery Location tables for additional details.	<b>Notes</b> 347V (3) available with Standard 0-10V (DD) Controls option only	<b>Notes</b> 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.*

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

Order Information

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

SAMPLE ORDER NUMBER: **S122DIW-C500D500U935-24F0-1-UDD-F1-BM-P**

Optics		Options	Wireless Controls
Direct Optics	Indirect Optics	Body Finish	
<p><b>[Blank]</b> = N/A  <b>F</b> = Frosted Lens (Diffuse)  <b>D</b> = Frosted Tin Drop Lens (Diffuse)  <b>A</b> = Asymmetric Wall  <b>C</b> = Corridor  <b>WVL</b> = White Louver w/ Frosted Lens  <b>SVL</b> = Silver Louver w/ Frosted Lens  <b>BVL</b> = Black Louver w/ Frosted Lens</p>	<p><b>[Blank]</b> = Open No Lens (or N/A)  <b>1</b> = Frosted Lens (Diffuse)  <b>HOB</b> = Half Batwing</p>	<p><b>W</b> = White  <b>S</b> = Silver  <b>B</b> = Black (Semi-Gloss)  <b>BM</b> = Black (Matte)</p> <p><b>RR</b> = Real Red  <b>OO</b> = Oasis Orange  <b>YY</b> = Yippee Yellow  <b>GG</b> = Gracious Green  <b>CC</b> = Cyprus Cyan  <b>TT</b> = Totally Turquoise  <b>BB</b> = Biosphere Blue  <b>PP</b> = Perfect Purple  <b>VV</b> = Vacation Violet  <b>MM</b> = Magic Magenta</p> <p><b>C</b> = Custom Color (RAL)  <b>CM</b> = Custom Color (Match)</p>	<p><b>[Blank]</b> = None</p> <p><b>Wavelinx Wireless</b>  <b>WPS</b> = WaveLinX PRO Integrated Sensor  <b>WLS</b> = WaveLinX LITE Integrated Sensor</p>
<p><b>Notes</b></p> <p>Use [Blank] with Indirect Only luminaire</p> <p>Louvers (VL) available with 1in Regress (R) compatible housing in 1ft increments only. Louvers (VL) available in &lt;1ft increments and custom Pattern (P) by request.*</p> <p>Asymmetric (A) and Corridor (C) available with VividTune upon request.*</p> <p>Performance is based on 3500K 80CRI with Flush Frosted Lens and White housing. Reference Lumen Adjustment Factors table for more detail.</p>	<p><b>Notes</b></p> <p>Use [Blank] with Direct Only (D) luminaire.</p> <p>Use [Blank] for No Lens (open top) with Direct + Indirect (DI) or Indirect Only (I) luminaire.</p> <p>Performance is based on 3500K 80CRI with No Lens and White housing. Reference Lumen Adjustment Factors table for more detail.</p>	<p><b>Notes</b></p> <p>Custom Colors (C and CM) are available by request.*</p> <p>Performance is based off White (W) and may vary with selected finish.</p>	<p><b>Notes</b></p> <p>WaveLinX is available with (DD) and Single Circuit (1) only.</p> <p>Integrated Sensors with Louvers, Regressed, or Drop lenses available by request.*</p> <p>Integrated Sensors combined with Emergency Circuit (E) require one UL924 Bypass Relay (T) per emergency fixture.</p> <p>Integrated Sensors combined with a Battery (B) in Direct + Indirect (DI) are available in luminaire lengths &gt;4ft only.</p>

Pattern Type	Special Options*
<p><b>[Blank]</b> = Individual or Straight Run  <b>P</b> = Pattern</p>	<p><b>[Blank]</b> = None</p>
<p><b>Notes</b></p> <p>Please include the angle for each illuminated corner and intersection when providing sketch/drawing (ex. A045 = 45°) for a custom Pattern (P).</p>	<p><b>Notes</b></p> <p>*All special options available by request.*</p> <p>Multiple Special Option Codes may be specified with a "*" to separate. (ex. XX-YY-ZZ)</p>

\*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

### Construction

- Precision cut housing extruded from 6063 aluminum
- Welded end-caps ensure a robust and clean construction
- Flush and 1in 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
- Extrusions are 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 2ft; minimum fixture length is 3ft for Direct + Indirect luminaire
- All lengths are nominal lengths and do not include end caps; reference drawings for total lengths.
- 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
- Indirect Optics
  - Open No Lens: Open top with Lambertian distribution provides lowest cost and highest efficacy option
  - 1: Frosted lens (Diffuse) with Lambertian distribution provides dust cover option when top of the luminaire is viewable during normal use
  - HOB: Shielded batwing optic with ultra wide half batwing distribution

### 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

- Adjustable aircraft cables for balancing
- 0.5in Rigid Stem Pendant options available
- 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

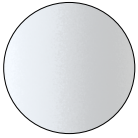
### Compliance

- 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

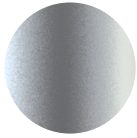
### Warranty

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

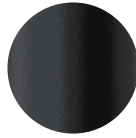
Finish Options



**W** - White



**S** - Silver



**B** - Black  
Semi-Gloss



**BM** - Black  
Matte



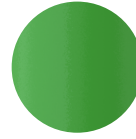
**RR** - Real Red  
RAL 3020  
Gloss



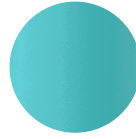
**OO** - Oasis Orange  
RAL 2004  
Gloss



**YY** - Yippee Yellow  
RAL 1018  
Gloss



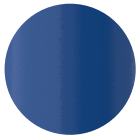
**GG** - Gracious Green  
RAL 6018  
Gloss



**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

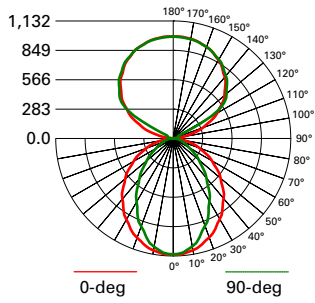


**MM** - Magic Magenta  
RAL 4010  
Gloss

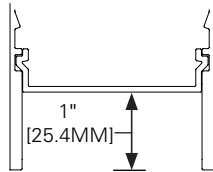
RAL Colors & Custom Match Colors available by request\*



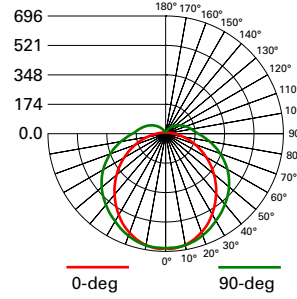
Photometric Data - Static White LED Technology



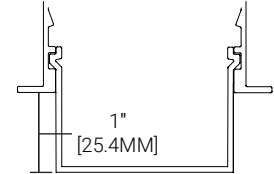
**FILE NAME:**  
**S122RDIP-S675D675U835-4F0-1E-UDD-F**  
 LUMENS: 5219.6 Lms  
 LPW: 113.7 LPW  
 CCT: 3500K  
 WATTS: 45.9 W  
**TEST NUMBER: P331690**



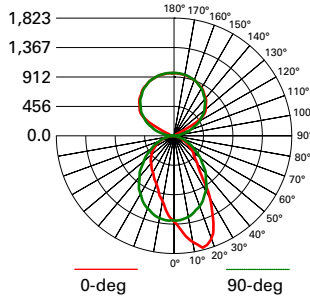
Open No Lens (Blank)  
 1in Regress Frosted Lens (RD+F)



**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**



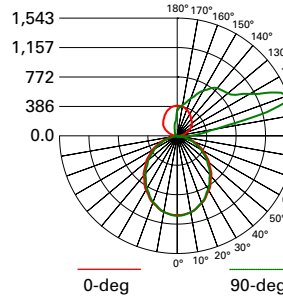
Frosted 1in Drop Lens (D)



**FILE NAME:**  
**S122DIP-S675D675U835-4F0-1E-UDD-A**  
 LUMENS: 5830 Lms  
 LPW: 127 LPW  
 CCT: 3500K  
 WATTS: 45.9 W  
**TEST NUMBER: P331348**



Open No Lens (Blank)  
 Flush Asymmetric (A)  
 Flush Corridor (C)



**FILE NAME:**  
**S122DIP-S675D725U835-4F0-1E-UDD-FHOB**  
 LUMENS: 4467 Lms  
 LPW: 96.1 LPW  
 CCT: 3500K  
 WATTS: 46.5 W  
**TEST NUMBER: P1217122**



Half Batwing (HOB)  
 Flush Frosted Lens (F)

## Photometric Overview and Performance Data

Direct Performance Per Linear Foot at 3500K/80CRI

Nominal Output	Standard		High Performance		VividTune	
	W/ft	lm/W	W/ft	lm/W	W/ft	lm/W
290	2.9	105	2.9	108	3	102
485	4.8	106	4.4	111	4.9	103
675	6.7	104	6.1	111	6.7	102
865	8.8	102	8.1	109	8.9	99
1005	10.6	98	9.7	105	10.7	96

Indirect Performance Per Linear Foot at 3500K/80CRI

Nominal Output	Standard		High Performance		VividTune	
	W/ft	lm/W	W/ft	lm/W	W/ft	lm/W
435	2.9	153	2.9	155	3	149
710.0	4.8	151	4.4	165	4.9	148
970	6.8	147	6.1	163	6.8	144
1240	9.0	142	8.1	155	9.1	138
1440	10.7	138	9.7	152	10.7	137

### Lumen Adjustment Factors

Body Finish	Direct Optics		Indirect Optics	
White (W)	Flush Frosted Lens (F)	1.000	Open No Lens (Blank)	1.000
	Asymmetric (A)	1.085	Flush Frosted Lens (1)	0.894
	Corridor (C)	1.085	Half Batwing (HOB)	0.606
	Drop (D)	0.995		
	1in Regress Frosted (RD w/ F)	0.859		
	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)	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)	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

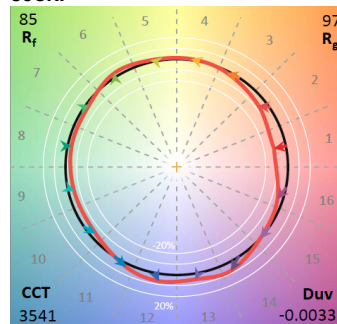
Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours) <sup>(1)</sup>	Theoretical L70 (Hours) <sup>(2)</sup>
25°C	>90%	>100,000

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.

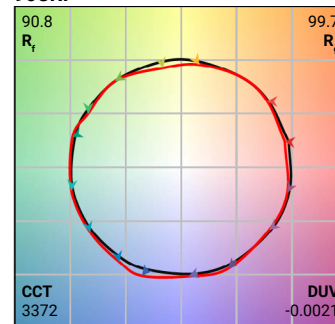
### Color Data (3500K)

		80CRI	90CRI
TM-30-15	R <sub>f</sub>	85.3	90.8
	R <sub>g</sub>	97.3	99.7
CRI/CIE	R <sub>a</sub>	85.2	94.8
	R <sub>9</sub>	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

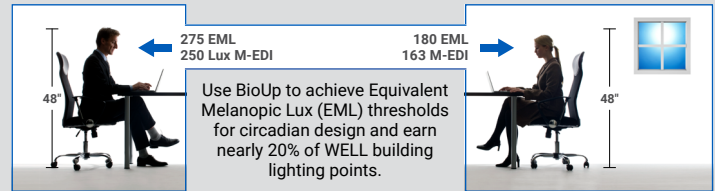


ANSI/IES RP-46-23 / TM18 published March 2024 based on over 40 years of research.

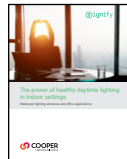
"...circadian clock synchronization is paramount to the body's efficient and appropriate functioning." – TM18



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



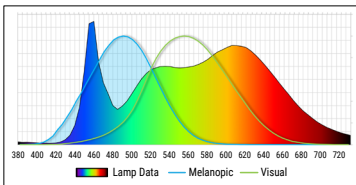
**MDER, M-EDI** and **EML** are key metrics used to quantify non-visual performance of indoor lighting systems.



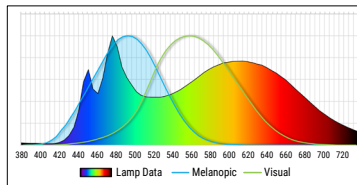
See [BioUp white paper](#) for more details

**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

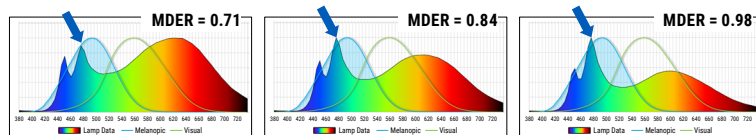
CCT	LED MDER ~83 CRI	BioUp Static		BioUp Dynamic	
		MDER	CRI	MDER	CRI
2700K	0.44	-	-	0.43	95
3000K	0.49	-	-	0.54	94
3500K	0.56	0.71	90	0.71	90
4000K	0.64	0.84	87	0.82	87
5000K	0.77	0.98	84	0.98	84

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**

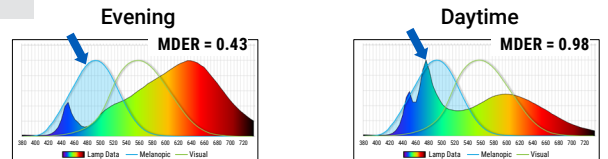
Cyan light component always present



no CCT control needed

### Dynamic - (Tunable)

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



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	-	•	•	•	•

2in		INDIRECT SUSPENDED		
Nominal Output		BioUp Light Engine		B35 efficacy
lm/ft		W/ft		lm/W
435		-		-
710		5.5		129.1
970		7.6		127.6
1240		10		124.0
1440		12		120.0

0-10V						
Availability						
Lumens/ft		330	530	725	925	1080
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	-	•	•	•	-

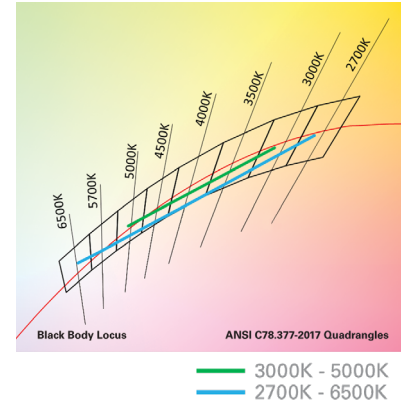
DALI						
Availability						
Lumens/ft		330	530	725	925	1080
Fixture Length	2	-	-	-	-	-
	3	-	-	-	-	-
	4	-	•	•	•	-
	5	-	•	•	•	-
	6	-	•	•	•	-
	7	-	•	•	•	-
	8	-	•	•	•	-
	9	-	•	•	•	-
	10	-	•	•	•	-
	11	-	•	•	•	-
	12	-	•	•	•	-

# 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.

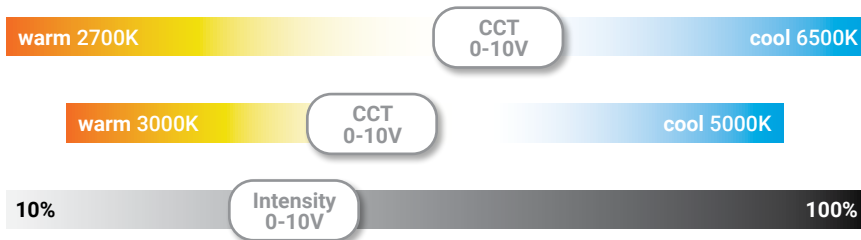


## Performance Data

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](http://www.cooperlightingsolutions.com) for tunable white application guides.



**Control Solutions**

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



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



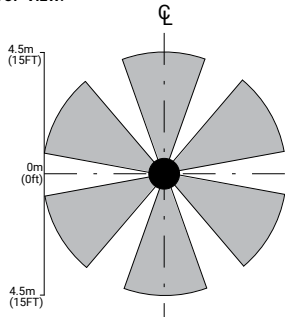
**WaveLinx PRO** is a wireless lighting control solution, for connected spaces, that significantly reduces a building's energy consumption. From a single floor to an entire campus, WaveLinx PRO connects more than lighting assets; it shares aggregated sensor data with the WaveLinx CORE platform and other 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.



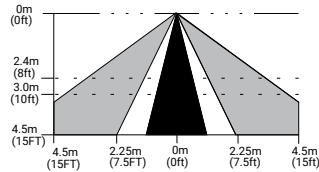
**WaveLinx LITE** is a cost effective, wireless digital lighting control solution, with out-of-the-box functionality, that saves energy and meets code. It's designed for applications that require occupancy-based, daylighting, or manual light control. Customize installations for office, education, warehouse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

**Integrated Sensor Coverage Pattern**

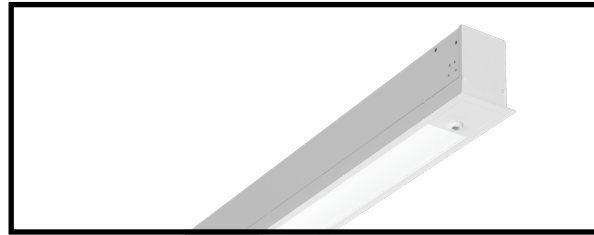
TOP VIEW:



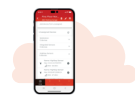
SIDE VIEW:



**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**

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

**SCALABILITY**



**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

	< 4ft	≥ 4ft
Define 2	Consult Factory	Internal (B3)
Define 3	Consult Factory	Internal (B1, B2, B3)
Define 4	Consult Factory	Internal (B1, B2, B3)
Define 5	Consult Factory	Internal (B1, B2, B3)

## Luminaire Weight (lbs/ft)

	Indirect Only	Direct Only	Direct + Indirect
Define 2	2.3	3.0	3.1
Define 3	3.1	3.6	3.7
Define 4	3.7	4.0	4.2
Define 5	4.3	5.2	5.4