Project	Catalog #	Туре	
Prepared by	Notes	Date	



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Top Product Features

- Wall Mount Slot family in 2", 3", 4" and 5" housing sizes
- Specifiable to the nearest foot
- Flush satin lens
- Multiple lumen packages
- 0-10V dimming standard; DALI dimming available
- · 2700K, 3000K, 3500K, 4000K, and 5000K correlated color temperatures available
- Available in VividTune and BioUp Technology
- · Options to meet Buy American Act requirements

Dimensional and Mounting Details







Neo-Ray

Define 2

2" LED Wall Mount Indirect

Typical Applications

Office • Education • Healthcare • Hospitality • Retail







2" LED Wall Indirect

Icon Key: Ø Consult factory for availability

Order Information

SAMPLE ORDER NUMBER: S122IW-V970U92765-16F0-1-UW2A-2-B

Domestic Preference	Series	Light Engine	Lumen Package Up (Lms/ft)	CRI	LED CCT	Luminaire Length (Ft)	Max section length	Circuiting
[Blank]=Standard BAA=Buy American Act	S122IW=Define 2 Indirect Wall	-C=Core -H=High Performance -V=VividTune Ø -B=BioUp	435U=435 Lms/ft (2.9W/ft) 710U=710 Lms/ft (4.8W/ft) 970U=970 Lms/ft (6.8W/ft) 1240U=1240 Lms/ft (9.0W/ft) 1440U=1440 Lms/ft (10.7W/ft) U=Custom Lms/ft Ø	8 =80 9 =90 B= BioUp	27=2700K 30=3000K 35=3500K 40=4000K 50=5000K 2765=2700K-6500K 3050=3000K-5000K 2750=2700K-5000K	F0=Nominal Length	(blank)=12ft (std) /8=8ft	-1=Single Circuit -S=Secondary Circuit
Notes Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.	Notes	Notes See performance table for add'I details. Light engine must be consistent across run length. V option requires lumen package of 970 lms/ft or greater.	Notes 3500K/80CRI/DIP/No Lens. Please refer to scaling data for other variables. For custom lumen output, please refer to additional information on page 4.1440 Lms/ft not valid with DALI or Lutron Drivers. Refer to BioUp Driver Tables on page 7 for light level availability.	apply for configura VividTun light eng B40, B50 tions req CRI rang BioUp Te	Notes al lead-time and cost may 927, 930, 935 and 940 tions. 92765 and 940 e configurations require V ine and W2A driver. B355, 82750 Bioloy configura- uire B light engine. es from >80CRI to 96CRI in chnology and is correlated Temperature.	Notes Minimum fixture length is 2ft. Specify to nearest foot in length. Refer to BioUp Driver Tables on page 7 for minimum allowable lengths.	Notes Individual fixtures configured as 12ft max by default. Continuous runs configured as 8ft max (12ft not available).	Notes Secondary circuit similar to A/B switching. Price adder applies for "S" configuration.

Additional Section Wiring	Voltage	Driver Type	Shielding Up
E=Emergency Circuit B3=6W UNV Integral T=UL924 EPC Emergency Bypass Relay	-U=Universal (120V-277V) -1=120V -2=277V -3=347V	DD=Standard 0-10V Dimming (1%-100%) SL=Fifth Light DALI (1%-100%) LH=Lutron HiLume (LDE1 series) 1%-100% EcoSystem WZA=2-Channel 0-10V (VividTune and Dynamic BioUp Only) WZD=2-Channel DALI (Dynamic BioUp Only)	(blank)=No Lens or N/A -1=Satin White Diffuser -2=Satin Raised Diffuser
Notes	Notes	Notes	Notes
Battery available on fixture ≥ 4ft in length. B3 and T options not compatible with 347V. Standard battery 4ft battery section located in the beginning of the fixture, but	347V only available with DD driver option.	Use standard 0-10V (DD) for Static BioUP (B35 B40 B50).	No lens up standard, use satin white diffuser when dust cover desired of top of the fixture is
sa /v. standard battery at battery section located in the beginning of the lixture, but can be relocated using the linear product configurator. Battery test switch located in knockout on top of fixture.		2-Channel 0-10V (W2A) available with VividTune (V) and Dynamic BioUp (B2750) only.	viewable during normal use.
B1 and B2 battery options not available with W2D driver in BioUp Technology		2-Channel DALI (W2D) available with Dynamic BioUp (B2750) only	

Finish	Integrated Sensor		
	[Blank]=None WaveLinx Wireless -WLS (formerly WAB) = WaveLinx LITE Wireless Sensor, Occupancy w/ photocell, Independent & Networked -WPS (formerly WAA) = WaveLinx PRO Wireless Sensor Occupancy w/ photocell, Networked -WLN = WaveLinx LITE Wireless Control Node, without Sensor -WPN = WaveLinx PRO Wireless Control Node, without Sensor Other -LWIPD1=Enlighted Integrated Sensor		
Notes	Notes		
Custom Colors (C and CM) are available as ETO. Performance is based off White (W) and may	All sensor options are available with (DD) driver options only.		
vary with selected finish.	WPS and WLS sensor options are also available with W2A BioUp Dynamic Option.		
	Refer to Sensor Placement section for additional details.		
	Integrated Sensors are available with Single Circuit (1) option only.		
	Integrated Sensors combined with Emergency Circuit (E) require one UL924 Bypass Relay (T) per emergency fixture.		
	Integrated Sensors combined with a Battery (B) are available with individual Direct/Indirect (DI) luminaires >4ft in length.		
	Integrated Sensor options with Regressed or Drop lenses available as ETO. Tilemount Sensor is recommended.		



2" LED Wall Indirect

Product Specifications

Construction

- Precision cut housing extruded from 6063 aluminum Precision cut & welded end-caps ensure a robust and clean construction
- Nominal 2' -12' illuminated sections used in individual fixtures and 2'-8' illuminated sections used in continuous runs

Finish

· Electrostatically applied polyester powder coat paint

LED Module

Modular LED tray assembly comprising reflector and light engine with quick disconnect wire-harness for ease of installation and maintenance over the life of the luminaire

Light Engine

- Offered with two next generation NeoRay light engines delivering industry leading efficacy and longlife
- LED's are available in 2700K, 3000K, 3500K, 4000K or 5000K
- CRI options of either ≥80CRI or ≥90CRI (Lumen output will be affected please refer to the lumen adjustment factor table)

LED Drivers

Mounting Wall

- · LED system coupled with electrical driver
- · Traditional electronic drivers are available for 120-277V and 347V applications

Controls and Integrated Sensors

- Equipped standard with a 0-10V continuous dimming driver. Compatible with most standard dimming devices
- Additional control types are available (DALI & Lutron) at an additional cost WaveLinx and LumaWatt Pro wireless sensors as well
- as stand-alone sensors available

Lenaths

- Available in any length (2ft min) with a resolution of 1 foot. Max section length of 12ft (8ft max used on continuous runs and available for individual fixtures)
- Additional fixture lengths are available please consult factory. All lengths are nominal and do not include end caps.

Corners and Transition Pieces

- Corners and other transition pieces are fully luminous Constructed using precision mitered housing and lens
- components Extrusions are welded to ensure a precise and robust
- assembly Standard 90° horizontal corners as well as custom corners are available
- Consult online linear configurator or the factory for precise corner locations and for ordering
- Alternative transition pieces such as T's, Y's, X's, etc. are also available Ø

Indirect Snap-In lensing Options

Satin Flush - Flush, high diffusion glare-free lens No Lens - No lens option provides the lowest cost solution with the highest efficacy

Reflectors

· Precision formed cold-rolled steel reflectors with high reflectivity

Lumen Maintenance

- 90% (L90) of initial light output at 61,000+ hrs
- 70% (L70) of initial light output at 237,000+ hrs Derived from TM-21 standard @25°C for worst case operating conditions

Custom Lumen Output

Custom lumen output expressed option in Lumens per foot (e.g. -725D for 725 Lms/ft down). Refer to additional detail on page 4.

Electrical

- Dimming provided as standard Dimming wires capped with wire-nuts for non-dimming applications
- Optional battery backup options provided
- Default battery location is internal to fixture
- Default emergency section is 4ft in length and located at the beginning of the fixture unless designated elsewhere
- Estimated lumen output = battery wattage * min
- efficacy (see performance table) The EPC option will bypass local controls and dimming upon loss of normal power. This option is required when the fixture has both integrated sensors and emergency circuiting

Integrated Sensors

Please reference page 5 for details

Weight

· 2.6 lbs per foot

Approvals

- cULus listed for damp locations
- Meets NYC requirements
- Meets CCEC requirements
- Tested to IESNA LM-79 and LM-80 Can be used for State of California Title 24 high efficacy luminaire

Warranty

Five year warranty standard.

Standard Finish Options



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Photometric Data - Static White LED Technology

2" LED Wall Indirect

🌮 View IES files



FILE NAME: S122IW-S675U835-4F0-1E-UDD LUMENS: 6803.6 Lms LPW: 129.3 LPW CCT: 3500K WATTS: 52.6 W TEST NUMBER: P331537

Photometric Overview and Performance Data

Nominal Output	Standard		High Per	formance	Vivid	Tune
lms/ft	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

Indirect Performance Per Linear Foot at 3500K/80CRI

LUMEN ADJUSTMENT CALCULATIONS

Example 1 - Adjusted Lumen Output Nominal Lumen Output selected = 1025 lms/ft (based on standard of 3500K/80CRI) Lumen Adjustment Factor = 0.801 (2700K/90CRI desired)

Adjusted Lumen Output = Nominal Lumen Output x Lumen Adjustment Factor Adjusted Lumen Output = 1025 lms/ft x 0.801 = 821 lms/ft

Example 2 - Custom Lumen Output based on Required Lumens Per Foot Total light output (4ft) requirement of 2800 lms, desired CCT and CRI of 4000K/80CRI

Total required lumens per foot @ 4000K= 2800 lms / 4 ft = 700 lms/ft Lumen Adjustment Factor = 1.018 (Requirement based on 4000K / 80CRI)

Total required lumens per foot @ 3500K / 80CRI = 700 lms/ft ÷ 1.018 = 688 lms/ft

Estimated efficacy = 121 LPW (find nearest value using table above) Estimated power consumption = 688 lms/ft \div 121 lm/W = 5.69 W/ft

Custom Lumen Output

Total Light Output Range (Ims/ft)

CCT Lumen A		dj Factors	Indirect Output Range		
CCT	80CRI	90CRI	80CRI	90CRI	
2700K	N/A	0.792	N/A	345-1140	
3000K	0.943	0.815	410-1358	355-1174	
3500K	1.000	0.861	435-1440	375-1240	
4000K	1.010	0.892	439-1454	388-1284	
5000K	1.010	0.892	439-1454	388-1284	

If your requirement is expressed in power consumption (W/ft) rather than light output, you can use the power to lumen output curves to convert power consumption to light output for specification. Efficacy for custom lumen outputs can be estimated using lumen output curves or with the use of our online custom lumen output tool.



Corner Transitions



Integrated Sensor Details and Placement

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

Optional standalone and wireless connected integrated sensors require use of the DD (0-10V) driver. WaveLinx and LumaWatt Pro sensors require additional system hardware (not provided) for full functionality.

Standard sensor layout is shown below. Please refer to sensor coverage pattern diagrams to ensure proper coverage for the application. Standard configurations are available in both individual fixtures and in continuous runs. Default spacing is based on the maximum fixture length of 12ft and can be changed to 8ft sensor spacing for additional coverage by selecting the 8ft max fixture length option when ordering.

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

O Standard Sensor with Luminaire Control

 \otimes Auxiliary Sensor used for Sensor Coverage

(wireless systems only)

INTEGRAL SENSOR

≤8ft Individual	0	
>8ft Individual	0	Ø
	Note: When 8ft max section length is used on individual fixture sensor placement follows logic for continuous run.	es > 8ft
Beginning of Run (BOR)	0	
Intermediate Section (INT)	0	
End of Run (EOR) > 4ft	0	Ø
End of Run (EOR) ≤ 4ft		0



Vivid Tune color tuning solutions

Define 2 Pendant LED 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*

Tur	Tunable White - Lumen Adjustment Factors					
сст	3000K	3000K-5000K		-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		

Example of Approximate Lumen Calculation					
	Standard Catalog # VividTune 80 CRI Catalog # VividTune 90 CRI C				
CCT Setting	S122IW-C1240U835-UDD-W	S122IW-V1240U83050-UW2A-W	S122IW-V1240U93050-UW2A-W		
3000K	-	4434	3651		
3500K	4960	4692	3988		
4000K	-	4925	4305		
4500K	-	4970	4380		
5000K	-	4970	4380		

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.eaton.com/lighting for tunable white application guides.



Example of Lumen Adjustment Calculation

s122IW-V1240U83050-UW2A-W at 80 CRI tuned to 3500K

Adjusted Lumen = published Im x adjusted Im factor

Adjusted Lumen = 4960 x 0.946

Adjusted Lumen = 4692 lm

* Lumen adjustment factors are for reference and may be different for each product selected. Refer to IES files for actual performance data on each.



2" LED Wall Indirect

BioUp Photometry

Legend:	 Available
-	- Unavailable

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

0-10V								
Availability								
Lumens/ft		435	710	970	1240	1440		
Fixture Length	2	-	-	•	•	•		
	3	-	•	•	•	•		
	4	-	•	•	•	•		
	5	-	•	•	•	•		
	6	-	•	•	•	•		
	7	-	•	•	•	•		
	8	-	•	•	•	•		
	9	-	•	•	•	•		
	10	-	•	•	•	•		
	11	-	•	•	•	•		
	12	-	•	•	•	•		

DALI								
Availability								
Lumens/ft		435	710	970	1240	1440		
Fixture Length	2	-	•	•	•	-		
	3	-	•	•	•	-		
	4	-	•	•	•	-		
	5	-	•	•	•	-		
	6	-	•	•	•	-		
	7	-	•	•	•	-		
	8	-	•	•	•	-		
	9	-	•	•	•	-		
	10	-	•	•	•	-		
	11	-	•	•	•	-		
	12	-	•	•	•	-		



2" LED Wall Indirect

Proven Research. Industry Recognized.

BioUn Melanopic Lighting







See BioUp brochure for more details



RECOMMENDED PRACTICE: SUPPORTING THE PHYSIOLOGICAL AND BEHAVIORAL EFFECTS OF LIGHTING IN INTERIOR DAYTIME ENVIRONMENTS

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):



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 nonvisual performance of indoor lighting systems.



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

Standard 4000K LED MDER = .62





Lamp Data — Melanopic

30% boost Biological impact

compared to traditional LED sources

	LED MDER	BioUp Static		BioUp Dynamic	
ССТ	~83 CRI	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 cvan 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.

Arrow in graph shows Static (non-tunable) Dynamic - (Tunable) BioUp spectrum boost is Static BioUp is used when simple Melanopic Lighting Dynamic BioUp is used when Melanopic Lighting is desired at 475nm where nonvisual biological response is desired at all times. to adjust during the day. is enhanced. Evening Daytime MDER = 0.84 MDER = 0.98 MDER = 0.43 MDER = 0.98 MDER = 0.71 40 560 580 600 620 640 660 680 20 540 560 580 600 620 640 660 540 560 580 600 620 640 660 680 0 560 580 600 620 640 660 40 560 580 600 620 640 660 680 Cooler Light With Warmer CCT Without 3500K 4000K 5000K or or Cvan content Cvan content Cyan light component always present 2700K - 5000K сст Dimming ССТ Control 0% Intensity 100% Control Dimming > no CCT control needed Intensity Control

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



Cooper Lighting Solutions 18001 East Colfax Avenue Aurora, CO 80011 P: 303-393-1522 www.eaton.com/lighting

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