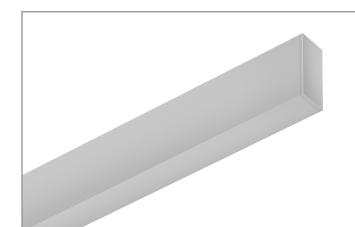
Project	Catalog #	Туре	
Prepared by	Notes	Date	



## Define 2

2" LED Wall Mount Indirect

**Typical Applications** Office • Education • Healthcare • Hospitality • Retail

## **Product Certification**



## Product Features

fifthligh







## **Top Product Features**

Interactive Menu

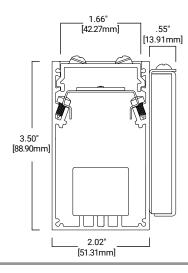
• VividTune page 6

Order Information page 2
 Product Specification page 3
 Photometric Data page 4

• Performance Data page 5

- 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
- Options to meet Buy American Act requirements

## **Dimensional and Mounting Details**







## 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	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	27=2700K 30=3000K 35=3500K 40=4000K 50=5000K 2765=2700K-6500K 3050=3000K-5000K	F0=Nominal Length	(blank)=12ft (std) /8=8ft	- 1=Single Circuit - S=Secondary Circuit
Notes	Notes	Notes	Notes		Notes	Notes	Notes	Notes
Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to <u>DOMESTIC PREFERENCES</u> , website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.		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.	3500K/80CRI/DIP/No Lens. Please refer to scaling data for other variables. For custom lumen output, please refer to additional information on page 3.1440 Lms/ft not valid with DALI or Lutron Drivers.	apply for configura	al lead-time and cost may 927, 930, 935 and 940 tions. 276/3030 VividTune tions require V light engine driver.	Minimum fixture length is 2ft. Specify to nearest foot in length.	Individual fixtures configured as 12ft max by default. Continuous runs configured as 8ft max (12ft not available).	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 W2A=White Tuning, 0-10V Dimming (VividTune only)	(blank)=No Lens or N/A -1=Satin White Diffuser -2=Satin Raised Diffuser
Notes	Notes	Notes	Notes
Battery available on fixture $\geq$ 4ft in length. B3 and T options not compatible with 347V. Standard battery 4ft battery section located in the beginning of the fixture, but can be relocated using the linear product configurator. Battery test switch located in knockout on top of fixture.	347V only available with DD driver option.	DD driver is standard. For non-dimming applications, the driver will default to full brightness if no connection is made to the capped dimming wires in the field.	No lens up standard, use satin white diffuser when dust cover desired of top of the fixture is viewable during normal use.

Finish	Integrated Sensor
	[Blank]=None <u>WaveLinx Wireless</u> -WPS = WaveLinx Pro Integrated Sensor (formerly WAA) -WLS = WaveLinx Lite Integrated Sensor (formerly WAB) <u>Other</u> -LWIPD1=Enlighted Integrated Sensor
Notes	Notes
Custom Colors (C and CM) are available as ETO. Performance is based off White (W) and may	WaveLinx Wireless Sensors are available with (DD) driver option only. Enlighted Sensor is available with (5L) driver option only.
vary with selected finish.	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

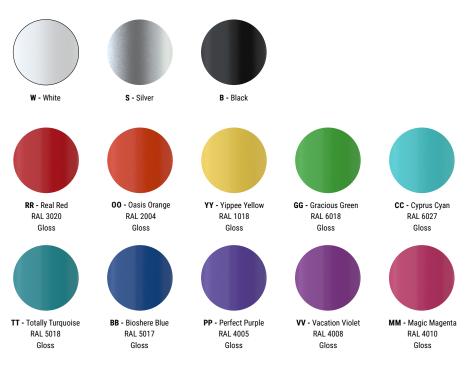
#### Approvals

- 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



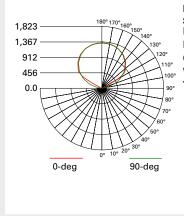
RAL & custom colors available as ETO



Photometric Data

## 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		rd High Performance		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

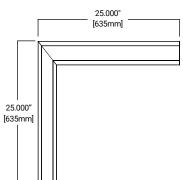
Total Light Output Range (Ims/ft)

ССТ	Lumen Adj 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>.

○ Standard Sensor with Luminaire Control

⊗ Auxiliary Sensor used for Sensor Coverage

(wireless systems only)

#### INTEGRAL SENSOR

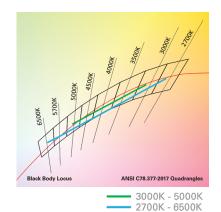
≤8ft Individual	0	
>8ft Individual	0	Ø
	Note: When 8ft max section length is used o sensor placement follows logic for continuou	
Beginning of Run (BOR)	0	
Intermediate Section (INT)	0	
End of Run (EOR) > 4ft	0	Ø
End of Run (EOR) ≤ 4ft		0



# 

## 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.



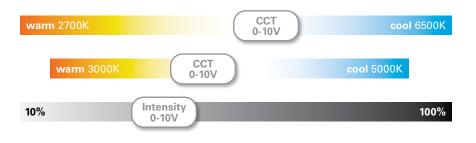
#### Performance Data\*

Tunable White - Lumen Adjustment Factors						
сст	3000K	-5000K	2700K-6500K			
CCI	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 Catalog #	
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.



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Specifications and dimensions subject to change without notice.