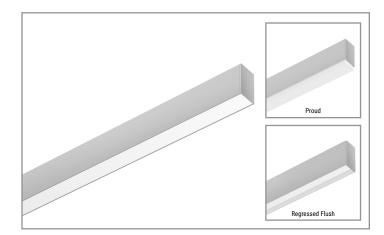
Project	Catalog #	Туре
Prepared by	Notes	Date



Interactive Menu

- Order Information page 2
- Product Specification page 3
- Photometric Data page 4
- Performance Data page 6
- VividTune page 7



Define 3

3" LED Wall Direct/Indirect

Typical Applications Office • Education • Healthcare • Hospitality • Retail

Product Certification



Product Features



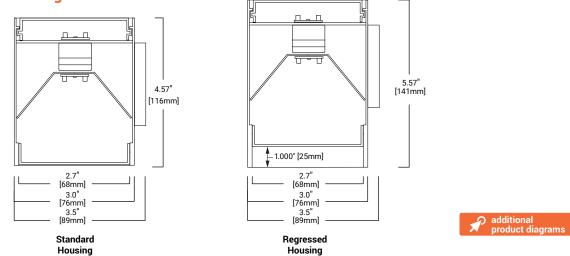




Top Product Features

- Wall Slot family in 2", 3", 4" and 5" housing sizes
- · Specifiable to the nearest foot
- · Satin, Asymmetric and Drop Direct Lensing available, Satin and Raised Indirect Lensing available
- · Independently specifiable Direct / Indirect 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





3" LED Wall Direct/Indirect

Order Information

SAMPLE ORDER NUMBER: S123RDIW-C775D1030U835-4F0-1T-UDD-D2-W

Icon Key: Grey bar denotes available with 10-Day Quick Spec Ø Consult factory for availability

Domestic Preference	Series	Light Engine	Lumen Package Down (Lms/ft)	Lumen Package Up (Lms/ft)	CRI	LED CCT	Luminaire Length (Ft)	Max section length	Circuiting
[Blank]=Standard BAA=Buy American Act	S123DIW=Define 3 Direct / Indirect Wall Quick Spec S123RDIW=Define 3 Regressed Direct / Indirect Wall	C=Core H=High Performance V=VividTune Ø	340D=340 Lms/ft (2.9W/ft) 560D=560 Lms/ft (4.8W/ft) 775D=775 Lms/ft (6.7W/ft) 1000D=1000 Lms/ft (8.8W/ft) 1165D=1165 Lms/ft (10.6W) D=Custom Lms/ft Ø	460U=460 Lms/ft (2.9W/ft) 755U=755 Lms/ft (4.8W/ft) 1030U=1030 Lms/ft (6.8W/ft) 1320U=1320 Lms/ft (9.0W/ft) 1535U=1535 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-5500K 3050=3000K-5000K	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	(blank)=12ft (std) /8=8ft	1=Single Circuit 2=Dual 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 <u>DOMESTIC PREFERENCES</u> website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.	Notes RDIW regress of 1* will add an additional 1* to fixture depth.	Notes See perfor- mance table for add'l details. Light engine must be consis- tent across run length. V option requires lumen package of 775 lms/ft or greater.	Notes 3500K/80CRI/DIP/F Lens. Please refer to scaling data for other variables. For custom lumen output, please refer to additional information on page 3.	Notes 3500K/80CRI/No Lens. Please refer to scaling data for other variables. For custom lumen output, please refer to additional information on page 3.1355 Lms/ft not valid with DALI or Lutron Drivers.	apply for configura	Notes al lead-time and cost may 927, 930, 935 and 940 tions. 276/5/3050 VividTune tions require V light engine driver.	Notes Minimum fixture length is 3ft. Specify to nearest foot in length. For 2ft fixture length, contact factory.	Notes Individual fixtures configured as 12ft max by default. Continuous runs configured as 8ft max (12ft not available).	Notes Dual circuit will provide separate Up/Down con- trol. Secondary circuit similar to A/B switching. Price adder applies for "S" configuration.

Additional Section Wiring	Voltage	Driver Type	Shielding Down	Shielding Up
E=Emergency Circuit B1=7W 120-277V EM battery pack B2=14W 120-277V EM battery pack 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)	F=Satin White Diffuser D=Satin Drop diffuser A=Asymmetric Diffuser C=Corrido Diffuser G=Graze Optic	(blank) =No Lens or N/A 1=Satin White Diffuser 2=Satin Raised Diffuser
Notes Battery available on fixture ≥ 4ft in length. B1-B2 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. When configured with dual or secondary circuit, battery test switch will be located in a plate on the direct side of the fixture.	Notes 347V only available with DD driver option.	Notes 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.	Notes All lensing options are snap-in lenses. "A" option is asymmetric toward the wall, "C" option is asymmetric away from the wall.	Notes 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
W = White S = Silver B = Black	[Blank]=None WaveLinx Wireless
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)	-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 vary with selected finish.	WaveLinx Wireless Sensors are available with (DD) driver option only. Enlighted Sensor is available with (5L) driver option only.
	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.



3" LED Wall Direct/Indirect

Product Specifications

Construction

- · Available in Flush and Regressed Housing
- 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 Neo-Ray light engines delivering industry leading efficacy and long-life
- LED's are available in 2700K, 3000K, 3500K, 4000K or 5000K
- CRI options of either \ge 80CRI or \ge 90CRI (Lumen output will be affected please refer to the lumen adjustment factor table)

LED Drivers

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

Controls and Integrated Sensors

Standard Finish Options

- 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 Enlighted wireless sensors as well as stand-alone sensors available

Mounting

• Wall

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

- Direct Snap-In lensing Options

 Satin Flush Flush, high diffusion glare-free lens
- Satin Drop 1" Drop, high diffusion glare-free lens
- Asymmetric Flush, low-glare Asymmetric lens
- Flush options ship with our patent-pending underlens solution, the proud lens ships with an injection molded end cap to eliminate light leak

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 Ultra high reflectivity used with High Performance

light engine

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

3.7 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

Warrantv

Optic Options

Five year warranty standard.

W - White S - Silver B - Black







Gloss



RAL 2004 Gloss



Gloss



- Perfect Purple

RAL 4005

Gloss





VV - Vacation Violet RAL 4008 Gloss





MM - Magic Magenta RAL 4010 Gloss



Regressed Flush Lens





Asymmetric Lens

RAL & custom colors available as ETO



3" LED Wall Direct/Indirect

Photometric Data View IES files FILE NAME: FILE NAME: S123DIW-S775D775U835-4F0-1E-S123RDIW-S775D775U835-4F0-1E-1,354 1,354 UDD-F UDD-F 1,016 1,016 LUMENS: 7043.1 Lms LUMENS: 7295.2 Lms 677 677 LPW: 133.9 LPW LPW: 138.7 LPW 339 339 : 3500K CCT: 3500K WATTS: 52.6 W 0.0 WATTS: 52.6 W 0.0 TEST NUMBER: P332166 TEST NUMBER: P332440 90-deg 0-deg [25.4MM] SATIN REGRESSED DIFFUSER SATIN FLUSH LENS FILE NAME: FILE NAME: S123DIW-S775D775U835-4F0-1E-S123DIW-S775D775U835-4F0-1E-80° 170° 1,354 2,273 UDD-A UDD-D LUMENS: 7387.8 Lms 1,016 LUMENS: 7356.6 Lms 1,705 LPW: 140.5 LPW LPW: 139.9 LPW 677 1,137 CCT: 3500K CCT: 3500K 339 568 00 WATTS: 52.6 W WATTS: 52.6 W 0.0 0.0 TEST NUMBER: P332162 TEST NUMBER: P332164 90-deg 0-deg 0-deg 90-deg [25.4MM] র্ম ASYMMETRIC FLUSH LENS SATIN DROP LENS FILE NAME: FILE NAME: S123DR-S775D835-X4F0-XX-UDD-S123RDR-S775D835-X4F0-XX-UDD-180° 170 2,847 2,885 G-W G-W 2,135 LUMENS: 3462.5 Lms 2,164 LUMENS: 3231.3 Lms LPW: 134.7 LPW LPW: 124.3 LPW 1,424 1,443 CCT: 3500K CCT: 3500K 712 721 WATTS: 25.7 W WATTS: 26 W 0.0 0.0 TEST NUMBER: P646650 TEST NUMBER: P646695 0-deg 90-deg 0-deg 90-deg [25.4MM] GRAZE OPTIC FLUSH GRAZE OPTIC REGRESSED



Photometric Overview and Performance Data

Direct Performance Per Linear Foot at 3500K/80CRI

Nominal Output			Vivid	Tune		
lms/ft	W/ft	lm/W	W/ft	lm/W	W/ft	lm/W
340	2.9	124	2.9	126	3	120
560	4.8	125	4.4	130	4.9	121
775	6.7	122	6.1	131	6.7	119
1000	8.8	120	8.1	128	8.9	116
1165	10.6	115	9.7	123	10.7	112

Indirect Performance Per Linear Foot at 3500K/80CRI

Nominal Output	1 Standard High Performance		Vivid	Tune		
lms/ft	W/ft	lm/W	W/ft	lm/W	W/ft	lm/W
460	2.9	163	2.9	165	3	159
755	4.8	161	4.4	175	4.9	157
1030	6.8	157	6.1	173	6.8	153
1320	9.0	151	8.1	165	9.1	147
1535	10.7	147	9.7	162	10.7	146

Lumen Adjustment Factors

Direct Optic	Adjustment Factor
Flush Frosted Lens (F)	1.000
Asymmetric (A)	1.029
Drop (D)	1.019
Regress Frosted (RD w/ F)	0.920
Wall Graze (G)	1.119

3" LED Wall Direct/Indirect

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 \div 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

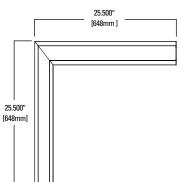
Total Light Output Range (Ims/ft)

ССТ	Lumen Ad		Direct Out	put Range	Indirect Output Range		
CUT	80CRI	90CRI	80CRI	90CRI	80CRI	90CRI	
2700K	N/A	0.792	N/A	269-923	N/A	364-1216	
3000K	0.943	0.815	321-1099	277-949	434-1448	375-1251	
3500K	1.000	0.861	340-1165	293-1003	460-1535	396-1322	
4000K	1.010	0.892	343-1177	303-1039	465-1550	410-1369	
5000K	1.010	0.892	343-1177	303-1039	465-1550	410-1369	

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 Pro	Yes	Integral to Fixture	Mounted in solid cover	WAA
WaveLinx Lite	Yes	Integral to Fixture	Mounted in solid cover	WAB
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 Enlighted 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>Cooper Lighting Solutions's Connected</u> <u>Lighting Website</u>.

O Standard Sensor with Luminaire Control

 Auxiliary Sensor used for Sensor Coverage (wireless systems only)

INTEGRAL SENSOR

≤8ft Individual	0
>8ft Individual	O Solution Set in the set of the
Beginning of Run (BOR)	0
Intermediate Section (INT)	0
End of Run (EOR) > 4ft	0 &
End of Run (EOR) ≤ 4ft	0

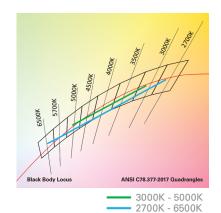






Define 3 Pendant LED with VividTune Tunable White

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.



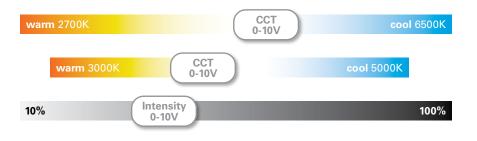
Performance Data*

Tunable White - Lumen Adjustment Factors						
COT	3000K	-5000K	2700K	6500K		
ССТ	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 #	Standard Catalog # VividTune 80 CRI Catalog #					
CCT Setting	S123DIW-C1000D1320U835-UDD-F-W	S123DIW-V1000D1320U83050-UW2A-F-W	S123DIW-V1000D1320U93050-UW2A-F-W				
3000K	-	8296	6830				
3500K	9280	8779	7461				
4000K	-	9215	8055				
4500K	-	9299	8194				
5000K	-	9299	8194				

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.



Example of Lumen Adjustment Calculation

S123DIW-V1000D1320U83050-UW2A-F-W at 80 CRI tuned to 3500K

Adjusted Lumen = published Im x adjusted Im factor

Adjusted Lumen = 9280 x 0.946

Adjusted Lumen = 8779 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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subject to change without notice.