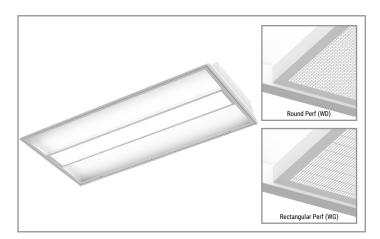
Project	Catalog #	Туре	
Prepared by	Notes	Date	



Corelite

Class D3X LED

2' x 4' Recessed 3-1/4" Depth

Typical Applications

· Commerical Office Spaces · Schools · Hospitals · Retail Merchandising Areas

Interactive Menu

- Order Information page 2
- Photometric Data page 3
- Energy and Performance Data page 3
- Control Systems page 4
- VividTune™ Color Tuning Solutions page 5
- Product Warranty

Product Certification



















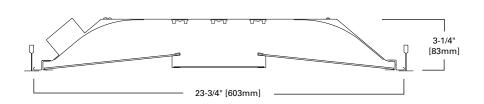
CLICK HERE

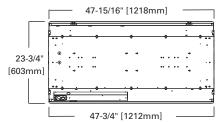




- · Multiple lumen packages with efficacies up to 111 lumens per watt
- Three CCT options: 3000K, 3500K and 4000K at 80 or 90CRI
- VividTune CCT tuning options from 3000K-5000K or 2700K-6500K
- Drywall flange and surface mount kit available
- · Options to meet Buy American and other domestic preference requirements

Dimensional and Mounting Details









Corelite Class D3X - 2x4

Order Information

SAMPLE ORDER NUMBER: D3X-WO-31L835-LD5-UNV-24-T1-STD-SWPD1

Driver Type

Domestic Preferences Domestic Preferences	Series Series	Shielding Shielding	Light Level (2x4)	CRI	Color Temperature Color Temperature	LED Revision	Input Voltage
[Blank]=Standard BAA=Buy American Act TAA=Trade Agreements Act	D3X=Class D3X LED Recessed	WO=Opal Lens WD=Round Perf WG=Rectangular Perf	31L=3100 Lumen, 22 W 36L=3600 Lumen, 27 W 42L=4200 Lumen, 31 W 45L=4500 Lumen, 38 W 50L=5000 Lumen, 38 W 55L=5500 Lumen, 48 W 60L=6700 Lumen, 54 W 74L=7400 Lumen, 54 W 80L=8000 Lumen, 68 W	8=80+ CRI 9=90+ CRI	30=3000K 35=3500K 40=4000K 3050=Tunable White 3000K-5000K 2765=Tunable White 2700K-6500K	LD5=LED 5.0	UNV=Universal (120V-277V) 347=347V 48V=48V Low-voltage (Class 2)
Notes Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.	Notes DesignLights Consortium® Qualified and classified for both DLC Standard and DLC Premium, refer to www. designlights.org for details.	Notes	Notes Refer to performance table on Page 3 for more detail.	Notes White tuning provides correlated color temperatures (CCT) between 3000K (warm) to 5000K (cool) or 2700K (warm) to 6500K (cool). May be combined with Wavelinx (WAA) sensor control systems only. Must be used in conjunction with W2A driver only. Must be used with two (2) 10V dimming control channels, 1 color, 1 intensity. Vivid Tune is not DLC Qualified.		Notes	Notes 347V versions are not available with emergency or sensor options.

Size	Ceiling Type	Driver Type	Integrated Sensing Systems	Emergency Options	Options
24 =2'x4'	T1=Grid/Lay-in (Flush), Concealed T, and Slot Grid	STD=Standard 0-10V (1%-100%) SLT=DALI (1%-100%) LV1=Low-voltage dimming driver (0-100%) STP=Step Dimming (Bi-Level, 50%) LH=Lutron HiLume 1% EcoSystems (LDE1) W2A=White Tuning, 2 ch, Intensity and CCT control	[Blank]=No Sensor WAA=WaveLinx Pro Wireless Integrated Sensor (A) WAB=WaveLinx Lite Wireless Integrated Sensor (B) WLA=Low-voltage Integrated Sensor (C) SVPD1=0-10V Stand-alone Integrated Sensor (D)	[Blank]=No Emergency EL7W=7-watt 120V-277V Integral EM Battery EL14W=14-watt 120V-277V Integral EM Battery ETRD=lota Emergency Transfer Relay with dimming control	[Blank]=None CP=Chicago Plenum W6=6' Whip Flex Installed, A3/8- 4/18GDIM
Notes	Notes	Notes	Notes	Notes	Notes
	EQ Grid Clips are recommended for all 9/16" ceilling systems. Four required per fixture. See Accessories for ordering details.	STP or SLT driver options not available in 31L and 36L lumen packages.	Integrated options must be used in conjunction with the asso- ciated system and may not be compatible with other options or accessories. Please refer to the following: (A) Consult WaveLinx Pro system pages for additional details and compatibility. (B) WaveLinx Lite devices are not currently compatible with the WaveLinx Wireless Area Controller. Consult WaveLinx Lite system pages for additional details and compatibility. (C) Consult DLVP system pages for additional details and compatibility. (D) Consult SVPD series system pages for additional details and compatibility.	ETRD used to bypass local control during outage. Must be used in conjunction with UL 1008 device (provided by others). Must specify voltage as 120V or 277V when ordering.	See specification features for flexible metal conduit details.

Integrated Sensing Systems

Product Specifications

Ceiling Type

Construction

Size

- 3-1/4" housing depth constructed of die-formed, code gauge cold rolled steel
- Full length die-formed stiffeners and unibody endplate for added strength
- Endplates provided with Grid-Lock feature for safety
- High reflectance sheet metal internal reflectors

Hinging / Latching

- Positive cam action steel latches with baked white enamel
- Safety-lock T-hinges allow hinging and latching either side
- Door assembly hinges down for easy access from below without tools

Frame / Shielding

- Die formed, heavy gauge, flat steel door with reinforced mitered corners painted after fabrication
- Baked matte white enamel finish
- Positive light seals
- Angled frosted side lenses with smooth flat center lens
- Round perf and Rectangular perf patterns are available as additional aesthetic options

Mounting

- Universal flange design works with most lay-in ceiling types
- Consult local code for appropriate tie-wire recommendations
- See Accessories section for drywall frame kit and surface mount kit options

LED and Light Engine

- LED's are available in 3000K, 3500K, 4000K
- Tuning white options available with Cooper Lighting Solutions' Vividtune
- CRI options of either ≥80CRI or ≥90CRI
- Lumen output will be affected please refer to the lumen adjustment factor tables
- TM21 life at 60,000 hours up to L93 and calculated L70 exceeds 351,000 hrs
- Drivers available in 120-277V and 347V

Integrated Controls

- 0-10V dimming to 1% standard
- WaveLinx wireless sensor compatible for standalone, controlled, connected, and IoT capability
- SVPD sensor compatible for standalone functionality
- Low-voltage sensor and driver compatible for DLVP applications
- DALI 2.0, Lutron, and step-dimming available

Emergency Options

- Optional 120-277V emergency battery available in 7W or
- 90-minute backup period for code compliance
- Test switch with laser pointer and testing from floor feature for ease of use
- EZ Key feature prevents accidental discharge during construction
- For approximate delivered lumens multiply the lumens per watt of the desired fixture by the wattage of the emergency

battery pack (100 lm/W x 14 = 1400 lumens)

UL 924 emergency/generator transfer options available

Options

Flexible Metal Conduit Options

Emergency Options

- Flex options available for 0-10V dimming control, DALI dimming control, emergency and night light functions
- 72-inch factory-installed and pre-wired to driver, fitted to luminaire housing access plate with 90° enclosed FMC connector
- Default flex option is A3/8-4/18GDIM; 3/8" flexible metal conduit with 2-#18 power and ground wires and 2-#18 ULlisted jacketed 0-10V +/- control wires
- Not all options may be combined and installation rating vary by type

Weight

18.0 lbs.

Compliance

- IC rated for insulation contact
- cULus listed for damp locations
- RoHS compliant
- Tested to IESNA I M-79 and I M-80
- Stated life per TM21 standards
- Can be used for State of California Title 24 high efficacy luminaire

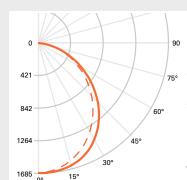
Warranty

Five year warranty standard. Optional ten year warranty available.



Photometric Data





FILE NAME:

D3X-W0-45L835-LD5-UNV-24.IES

LAMP: (LD5) LED 3500K

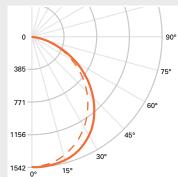
LUMENS: 4422 Lm **WATTS:** 34.0 W

EFFICACY: 130 Lm/W **TEST NO.:** P258495

SC: (II) 1.22, (L) 1.26

0° (II) _____

90° (L) -----



FILE NAME:

D3X-WG-45L835-LD5-UNV-24.IES

LAMP: (LD5) LED 3500K **LUMENS:** 4159 Lm

WATTS: 34.0 W EFFICACY: 122 Lm/W

TEST NO.: P258436 SC: (II) 1.24, (L) 1.32

0° (II) _____

90° (L) -----

Note: Refer to IES files for more product data.

Energy and Performance Data

2x4 – D3X Light Level Outputs (3500K, 80 CRI)							
Series	Lumen Package	Delivered Lumens	Wattage	Efficacy (LPW)			
	31L	3092	22.2	139			
	36L	3551	26.5	134			
	42L	4093	31.2	131			
	45L	4422	34.0	130			
D3X-WO	50L	4863	37.8	129			
D3X-WU	55L	5402	42.7	127			
	60L	5835	47.7	122			
	67L	6570	53.9	122			
	74L	7230	61.6	117			
	80L	7837	67.5	116			

Lumen Maintenance

Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours)	Theoretical L70 (Hours)
25°C	>93%	351,000

Color Data (3500K)

		80CRI	90CRI
TM-30-15	R_f	82.6	92.8
1141-30-13	R _g	94.9	100.7
CDL/CIE	R _a	83.8	96.2
CRI/CIE	R ₉	15.5	69.3

Shielding Options



Opal Lens (WO)



Round Perf (WD)

Lumen Adjustment Factors

CCT	80 CRI	90 CRI
3000K	0.960	0.830
3500K	1.000	0.861
4000K	1.000	0.883

Example Calculation:

50L / 3500K / 80 CRI

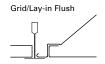
Lumen Output selected = 4863 lms

3500K / 90 CRI Desired

Lumen Adjustment Factor = 0.861

Adjusted Lumen Output = 4863 lms x 0.861 = 4187 lms

Ceiling Compatability







Accessories (Ordered Separately)

EQ-CLIP-U = T-BAR Safety Earthquake Clips

DF-24-W = 2' x 4' Drywall Frame Kit

SK-24-WS = 2' x 4' Field Install Surface Mount Kit, Shallow



Rectangular Perf (WG)



Corelite Class D3X - 2x4



- · WaveLinx Pro Wireless
- · WaveLinx Lite Wireless
- WaveLinx Wired
- DVLP



Top View Side View [12 ft.] 3.3m [10 ft.] 0m [0 ft.] 4m [12 ft.] 4m – [12 ft.] **Major Motion**

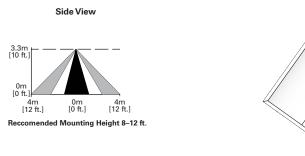
The Class D3X with Integrated Sensor technology provides automatic energy savings without sacrificing performance. The Class D3X delivers superior lighting with integrated occupancy and daylighting controls.

For standalone and controlled applications, the WaveLinx Lite integral sensor provides out-of-the-box functionality with no gateways required and factory startup is not needed. When more connectivity is required, the WaveLinx Wireless sensor meets modern code and utility requirements, delivers energyand cost savings, while enabling buildings to become smartbuildings.

The WaveLinx Wireless Connected Lighting System combined with Trellix provides an open IoT platform and infrastructure that connects intelligent sensors leveraging the real-estate of the physical light fixture to solve higher complexity problems to deliver actionable insights through the aggregation of valuable data.

buildings

floors



Systems comparison chart

Cooper Lighting Solutions provides many lighting system solutions designed to satisfy code requirements and meet the unique needs of any project.

devices



areas

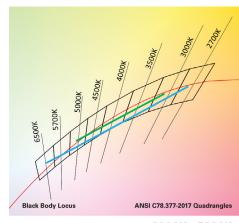


Corelite Class D3X - 2x4



Class D3X with VividTune Tunable White

VividTune tunable white luminaires from Cooper Lighting Solutions 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.



3000K - 5000K 2700K - 6500K

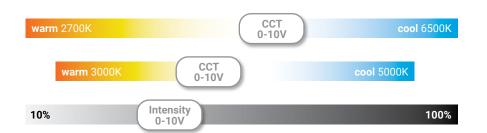
Energy and Performance Data

Tunable White - Lumen Adjustment Factors						
ССТ	3000K-	-5000K	2700K-6500K			
CCI	80 CRI	90 CRI	80 CRI	90 CRI		
2700K	-	-	0.923	0.789		
3000K	0.950	0.783	0.949	0.820		
3500K	1.006	0.855	0.983	0.861		
4000K	1.056	0.923	1.004	0.888		
4500K	1.066	0.939	1.022	0.911		
5000K	1.066	0.939	1.036	0.929		
6500K	-	-	1.051	0.955		

	2'x 4' Class D3X LED - Example of Approximate Lumen Calculation						
	Standard Catalog #	VividTune 80 CRI Catalog #	VividTune 90 CRI Catalog #				
CCT Setting	D3X-WO-55L835-LD5-UNV- 24-T1-STD	D3X-W0-55L83050-LD5-UNV- 24-T1- W2A	D3X-W0-55L93050-LD5-UNV- 24-T1- W2A				
3000K	-	5132	4230				
3500K	5402	5434	4619				
4000K	-	5705	4986				
4500K	-	5759	5072				
5000K	-	5759	5072				

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.



Example of Lumen Adjustment Calculation

D3X-W0-55L83050-LD5-UNV-24-T1-W2A

at 80 CRI tuned to 3500K

Adjusted Lumen = published Im x adjusted Im factor

Adjusted Lumen = 5402 x 1.006

Adjusted Lumen = 5434 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.

