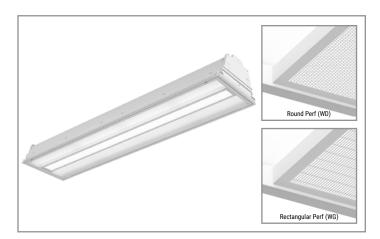
Project	Catalog #	Туре	
Prepared by	Notes	Date	



Corelite

Class D3X LED

1' x 4' Recessed $5^{-11}/_{16}$ " 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
- VividTuneTM Color Tuning Solutions page 5
- Product Warranty

Product Certification













Product Features







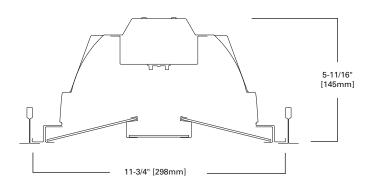


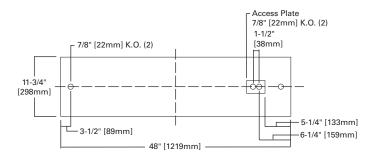


Top Product Features

- · Subtle, clean geometry in a fully luminous door-frame design
- · 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 - 1x4

Order Information

SAMPLE ORDER NUMBER: D3X-WO-31L835-LD5-UNV-14-T1-STD-SWPD1

Driver Type

Domestic Preferences	Series	Shielding	Light Level (1x4)	CRI	Color Temperature	LED Revision	Input Voltage
Domestic Preferences	Series	Shielding	Light Level (1x4)	CRI	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	23L=2300 Lumen, 22 W 26L=2600 Lumen, 25 W 31L=3100 Lumen, 31 W 35L=3500 Lumen, 36 W 40L=4000 Lumen, 42 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 500K (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) 100 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
14 =1'x4'	T1=Grid/Lay-in (Flush), Concealed T, and Slot Grid	STD=Standard 0-10V (1%-100%) SR=Sensor-ready for LWIPD1 (1%-100%) SLT=Fifth Light DALI (5%-100%) SLT=Sifth Lyde dimming driver (0-100%) STP=Step Dimming (Bi-Level, 50%) LH=Lutron Hillume 1% EcoSystems (LDE1) LS_Lutron S-Series SK_ECOSystems (LDE5)	[Blank]=No Sensor WAA=WaveLinx 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 EL7M=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/ 4/18GDIM

Integrated Sensing Systems

W2A=White Tuning, 2 ch, Intensity and CCT control Notes Notes Notes Notes Notes Notes 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 system pages for additional details and compatibility. (B) Wave-Linx Lite devices are not currently compatible with the WaveLinx EQ Grid Clips are recommended for all 9/16" ceiling systems. Four required per fixture. See Accessories for ordering details. 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 STP or 5LT driver options not available in 23L, 26L, and 31L lumen packages. See specification features for flexible metal conduit details. when ordering 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

Product Specifications

Ceiling Type

Construction

Size

- 5-11/16" 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 finish
- Safety-lock T-hinges allow hinging and latching either
- 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
- 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 Light 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 L92 and calculated L70 exceeds 265,000 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
- 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)

Options

- UL 924 emergency/generator transfer options available
- 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 UL-listed jacketed 0-10V +/- control wires
- Not all options may be combined and installation rating vary by type

Weight

16.0 lbs.

Compliance

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

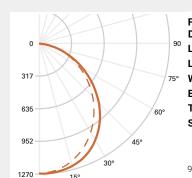
Warranty

Five year warranty standard. Optional ten year warranty available.



Photometric Data





FILE NAME:

D3X-W0-31L835-LD5-UNV-14.IES

LAMP: (LD5) LED 3500K

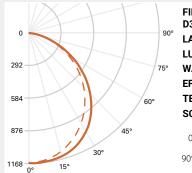
LUMENS: 3273 Lm **WATTS:** 30.6 W

EFFICACY: 107 Lm/W **TEST NO.:** P257564

SC: (II) 1.22, (L) 1.26

0° (II) ______

90° (⊥) -----



FILE NAME:

D3X-WG-31L835-LD5-UNV-14.IES

LAMP: (LD5) LED 3500K

LUMENS: 3102 Lm **WATTS: 30.6 W**

EFFICACY: 101 Lm/W **TEST NO.:** P257441

SC: (II) 1.24, (L) 1.30

0° (II) _ _ _ _ _ _

90° (L) -----

Note: Refer to IES files for more product data.

Energy and Performance Data

1x4 - D3X Light Level Outputs (3500K, 80 CRI)						
Series	Lumen Delivered Package Lumens		Wattage	Efficacy (LPW)		
	23L	2457	22.2	111		
	26L	2741	24.7	111		
D3X-WO	31L	3273	30.6	107		
	35L	3713	35.6	104		
	40L	4215	41.9	101		

Lumen Maintenance

Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours)	Theoretical L70 (Hours)
25°C	>92%	267,500

Color Data (3500K)

		80CRI	90CRI
TM-30-15	R_f	82.6	92.8
1 IVI-3U-15	R_g	94.9	100.7
CRI/CIE	R _a	83.8	96.2
	R ₉	15.5	69.3

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:

31L / 3500K / 80 CRI

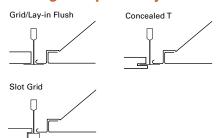
Lumen Output selected = 3273 lms

3500K / 90 CRI Desired

Lumen Adjustment Factor = 0.861

Adjusted Lumen Output = 3273 lms x 0.861 = 2818 lms

Ceiling Compatability



Accessories (Ordered Separately)

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

DF-14-W = 1' x 4' Drywall Frame Kit

SK-24-WT = 1' x 4' Field Install Surface Mount Kit, Tall

Shielding Options







Rectangular Perf (WG)



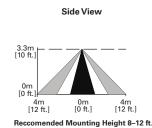
Class D3X - 1x4 **Corelite**



- · WaveLinx Wireless
- · WaveLinx Wired
- · WaveLinx Lite
- DVLP
- Vividtune



Top View 4m [12 ft.] 0m [0 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.



Systems comparison chart

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









	Standalone	Controlled WaveLinx Lite	Connected WaveLinx Wireless	Enterprise Trellix
Occupancy	Yes	Yes	Yes	Yes
Daylighting	Yes	Yes	Yes	Yes
Gateways	-	-	1 WAC	300 WACs
Devices	-	50 per Area (1400 per site)	150 per WAC	45,000 per Core Enterprise
Software	-	WaveLinx Lite Mobile App	WaveLinx Mobile App	Trellix Core
Areas	-	28 per Site	16 per WAC	up to 4,800
Zones	-	16 per Area	16 per Area	up to 76,800
Scheduling	ling – –		Local	Global
VividTune™	-	-	Yes	Yes
Plug-Load Contro	Plug-Load Control –		Yes	Yes
Integration	tegration – –		-	BACnet, API
Dashboards	nboards		-	Energy, Occupancy
Configuration	_	Installer	Technician	Technician / IT

SCALABILIT



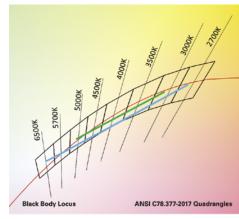


Corelite Class D3X - 1x4



Class D3X with VividTune Tunable White

VividTune tunable white luminaires from Cooper Light 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

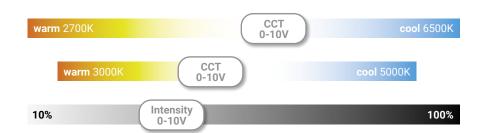
Energy and Performance Data

Tunable White - Lumen Adjustment Factors						
ССТ	3000K-	-5000K	2700K-6500K			
CCI	80 CRI	90 CRI	80 CRI	90 CRI		
2700K	-	-	0.922	0.787		
3000K	0.949	0.781	0.948	0.818		
3500K	1.004	0.853	0.981	0.859		
4000K	1.054	0.922	1.002	0.887		
4500K	1.064	0.938	1.020	0.910		
5000K	1.064	0.938	1.034	0.928		
6500K	-	-	1.049	0.953		

1'x 4' Class D3X LED - Example of Approximate Lumen Calculation							
	Standard Catalog #	Standard Catalog # VividTune 80 CRI Catalog #					
CCT Setting	D3X-WO-35L835-LD5-UNV- 14-T1-STD	D3X-W0-35L83050-LD5-UNV- 14-T1- W2A	D3X-WO-35L93050-LD5-UNV- 14-T1- W2A				
3000K	-	3524	2900				
3500K	3713	3728	3167				
4000K	-	3914	3423				
4500K	-	3951	3483				
5000K	-	3951	3483				

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.



Cooper Lighting Solutions 1121 Highway 74 South Peachtree City, GA 30269

www.cooperlighting.com

P: 770-486-4800

Example of Lumen Adjustment Calculation

D3X-W0-35L83050-LD5-UNV-14-T1-W2A

Adjusted Lumen = published Im x adjusted Im factor

Adjusted Lumen = 3713 x 1.004

Adjusted Lumen = 3728 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.

