Project	Catalog #	Туре	
Prepared by	Notes	Date	



LDS4B | EU4B | 4LBS

4" round, new construction shallow downlight

Typical Applications

Office • Education • Healthcare • Hospitality • Retail • Code-Compliance Areas • Sports Venues

powered by

fifthlight

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Product Certification

Product Features

D2W

🖌 Interactive Menu

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- Product Warranty

Top Product Features

- 500, 1000, 1500, 2000, 3000 lumens
- 2400K, 2700K, 3000K, 3500K, 4000K, 5000K color temperature
- · For standard or shallow plenum heights
- Dim-to-warm technology
- Tuneable white technology
- · Options to meet Buy American and other domestic preference requirements

Dimensional and Mounting Details







LDS4B | EU4B | 4LBS

Order Information

SAMPLE ORDER NUMBER: LDS4B10D010-EU4B102027-4LBS1MW

Domestic Preferences Domestic Preferences (11)	Housing Housing	Lumens		ver ver
[Blank] =Standard BAA =Buy American Act TAA =Trade Agreements Act	LDS4B = 4" Downlight 4" nominal aperture LDS4BCP = 4" Downlight 4" nominal aperture, Chicago Plenum	05= 500 Lumens ⁽¹⁰⁾ 10 = 1000 Lumens 15 = 1500 Lumens 20 = 2000 Lumens 30 = 3000 Lumens	D010 = 0-10V Dimming, 1% to 100%, 120V-277V D010TR = 0-10V or Line Voltage Dimming, 5% to 100%, 120V-277V DE010 = 0-10V Linear Dimming, 0% to 100%, 120V-277V(DSLT = Firth Light® DALI DT6 Logarithmic Dimming, 0% to 100%, 120V-277V(^{III}) DMX = D0MX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V ^{(IIII}) DMXC5 = DMX/RDM Logarithmic Dimming, 0% to 100%, 100%, 120V-277V, ^{(IIII}) DMXC5 = DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V, ^{(IIII}) DLX = DMX/RDM Logarithmic Dimming, 1% to 100%, 120V Only DLE = Lutron® Hi-Lume Forward Phase Dimming, 1% to 100%, 120V Only DLE = Lutron Ecosystem dimming 1% to 100%, 120V-277V ULV = Low voltage dimming driver (1-100%) for use with DLVP system ^(III)	Tunable white 1000-2000 Lumens (2)(5) 1DE010W2N2050 = 0-10V dimming, 0% to 100%, 120V, 2000K - 5000K 1DE010W2N2765 = 0-10V dimming, 0% to 100%, 120V, 2700K - 6500K 1DSLTW2N2050 = Fifth Light DALI DT6 Logarithmic Dimming, 0% to 100%, 120V, 2000K - 5000K 1DSLTW2N2765 = Fifth Light DALI DT6 Logarithmic Dimming, 0% to 100%, 120V, 2700K - 6500K 2DE010W2N2765 = 0-10V dimming, 0% to 100%, 277V, 2000K - 6500K 2DE010W2N2765 = 0-10V dimming, 0% to 100%, 277V, 2700K - 6500K 2D5LTW2N22050 = Fifth Light DALI DT6 Logarithmic Dimming, 0% to 100%, 277V, 2000K - 5000K 2DSLTW2N2050 = Fifth Light DALI DT6 Logarithmic Dimming, 0% to 100%, 277V, 2700K - 6500K

Domestic Preferences	Power Module	Lumen		CRI / C	ст	
Domestic Preferences (11)	Power Module	Lumen ⁽¹⁾		CRI / C	ст	
[Blank]=Standard BAA=Buy American Act TAA=Trade Agreements Act	EU4B = 4" Universal LED Module	1020 = 1000, 1500, 2000 Lumens 3040 = 3000 Lumens	80 CRI 27 = 2700K 30 = 3000K 35 = 3500K 40 = 4000K 50 = 5000K	90 CRI 24 = 2400K 27 = 2700K 30 = 3000K 35 = 3500K 40 = 4000K 50 = 5000K		97 CRI 27 = 2700K 30 = 3000K
			Dim 2 Warm 109030D2W = 1000 lumen, 90 CRI, D 159030D2W = 1500 lumen, 90 CRI, D 209030D2W = 2000 lumen, 90 CRI, D 309030D2W = 1000 lumen, 90 CRI, D	im 2 Warm, IC rated im 2 Warm	90 CRI, tunabl 1020W2N90	2 2050 = 1000, 1500, 2000 lumens, e white 2000K-5000K 2 650 = 1000, 1500, 2000 lumens, 90 hite 2700K-6500K

Reflector	Flange	Finish	
Reflector	Flange		Finish
4LBCS = 4" Shallow wide beam spun aluminum 4LBCS = 4" Shallow wide beam Die cast 4LBPS = 4" Shallow non-conductive, injection molded white (self flanged white only)	 0 = White polymer trim ring 1 = Self-flanged (finish is the same as the reflector) 2 = White painted self- flanged 	Spun reflectors LI = Specular Clear H = Semi-Specular Clear WMH = Warm Haze WH = Wheat GPH = Graphite Haze B = Specular Black	Die Cast reflectors MW = Matte White MB = Matte Black MMS = Matte Metallic Silver

Accessories

HSA4 = Slope Adapter for 4" Aperture Housings, Specify Slope in 5° increments TRM4 = Metal Trim Ring, Specify Color LGSKT4IP66 = IP66 Gasket Kit

PRR4 = Rimless Plaster Ring for Flush Mount (order reflector with polymer ring)

Bar Hangers HB26 = C-channel Bar Hanger, 26" Long, Pair TAA-HB26=Pair C-channel Bar hanger, 26" long¹¹ HB50 = C-channel Bar Hanger, 50" Long, Pair RMB22 = Wood Joist Bar Hanger, 22" Long, Pair

Connected Lighting Systems (7)

WTA = Field installed WaveLinx sensor Kit⁽⁸⁾ WTK = Field installed WaveLinx Lite Sensor Kit⁽⁹⁾ Notes

 Notes

 (1) Nominal lumens will vary depending on selected color, driver and reflector finish.
 (2) Non-C

 (2) Non-C
 (3) Atavailable with Chicago Plenum.
 (5) Requires above ceiling access.

 (6) DMX fixtures default to full on upon loss of DMX signal.
 (7) Refer to system specifications for additional information, features, and benefits. Order either factory installed option or accessory.

 (8) WTA = WaveLinx wireless sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with 0-10V only.
 (9) WTX = WaveLinx Lite tile mount sensor kit for daylight dimming, PIR motion sensing, use with D010 only (Refer to WaveLinx Lite system specifications)
 (10) Limited to D010 drivers

(11) 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. Offered with spun aluminum narrow, medium and wide trims. (12) Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.



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Product Specifications

Lower Shielding Reflector

- Painted die cast aluminum, spun aluminum or nonconductive injection molded lower reflector with a lensed upper optical chamber providing superior lumen output with minimal source brightness
- Spun reflectors are offered in all Portfolio Alzak[®] finishes
- Reflector is retained with two torsion springs holding the flange tight to the finished ceiling surface
- Plaster lathing ring accessory offered for flush reflector transition

Plaster Frame

- Galvanized steel plaster frame designed for ceiling thickness from ½ to 1-1/4-inch
- Universal mounting bracket accepts 1/2" EMT, C channel and bar

Junction box

- Listed for (8) #12 AWG (four in, four out) 90°C conductors and feed thru branch wiring
- (4) 1/2" and (2) 3/4" trade size pry outs positioned to allow straight conduit runs

Thermal

 Aluminum heat sink conducts heat away from the LED module for optimal performance and long life

LED

- Chip on board with a multitude of highly efficient white LED's, combined with a high reflectance upper reflector and convex transitional lens produce even distribution with no pixilation.
- Rated for 50,000 hours at 70% lumen maintenance. Auto resetting, thermally protected, LED's are turned off when safe operating temperatures are exceeded.
- Color variation within 2-step MacAdam ellipses.
 Flexible disconnect allows for tool-less replacement of LED engine from below ceiling

- · Available in 80, 90 or 97 CRI.
 - D2W[™] dim-to-warm shifts CCT from 3000K to 1850K as fixture dims mimicking halogen sources.
 - W2N Tunable white CCT range 2700K to 6500K or 2000K to 5000K, 90 CRI. Standard (requires above ceiling access)

Driver

- 120-277V 0-10V dimming driver provides flicker free dimming from 100% to 1%
- Optional 120V leading edge, <1% 0-10V, Fifth Light, DMX or Lutron[®] Ecosystem
- W2N, DMX, DE010, and D5LT require above ceiling access and all other drivers can be accessed from above or through the aperture
- Distributed low voltage power system combines power, lighting, and controls with ease of installation.

Connected Lighting System Options

Two WaveLinx connected systems to choose from. Refer to WaveLinx system specifications and application guides for details.

WaveLinx Wireless System Tilemount Sensor Kit

 WaveLinx Wireless WTA tile mount sensor kit offers daylight dimming, PIR motion sensing, scene and zone configuration, automatic commissioning; and optional RLTS - Real Time Location Services available.

WaveLinx Lite System Tilemount Sensor Kit

• WaveLinx Lite WTK tile mount sensor kit offers daylight dimming and PIR motion sensing, scene and grouping configuration.

WaveLinx Tilemount Kits Application

 The WTA and WTK tilemount kits include a control module mounted on the luminaire junction box via 1/2" knock-out, and a tilemount sensor on 54-inch whip; for ceiling installation by direct-mount spring clips or via mounting bracket in octagon ceiling boxes.

 The WTA and WTK tilemount kits may be ordered as factory installed on the luminaire, or ordered separately as a field installed accessory kit.

Code Compliance

- Thermally protected and cULus listed for protected wet locations
- IP66 rated when used with IP66 gasket kit accessory
- Optional City of Chicago environmental air (CCEA) marking for plenum applications
- EMI/RFI emissions per FCC 47CFR Part 18 Class B consumer limits
- IC rated up to 1500 lumens
- 2000 lumen and above are non-IC rated insulation must be kept 3" from top and sides of housing
- RoHS Compliant
- Photometric testing completed in accordance with IES LM 79 and TM-30 standards
- LED life testing completed in accordance with LM 80 standards

Warranty

Five year warranty



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Energy and Performance Data

Energy Data	
Sound Rating: Class A standards	
(Values at non-dimming line voltage)	
Minimum Starting Temperature: -30°C (-22°F)	
EMI/RFI: FCC Title 47 CFR, Part 15, Class B (Consumer)	
Input Voltage: UNV (120V - 277V)	
Power Factor: >0.90 (at nominal input 120-277 VAC & 100% of Rated Output Power)	
Input Frequency: 50/60Hz	

	120V		277V	
Lumens	Inrush (A)	Duration (ms)	Inrush (A)	Duration (ms)
1000 Lumen D010	1.02	0.041	2.18	0.021
1500 Lumen D010	1.02	0.042	2.24	0.064
2000 Lumen D010	1.02	0.077	2.43	0.027
3000 Lumen D010	1.15	0.067	3.26	0.027

1000 Lumen D010				
Input power: 11W	THD: <14%			
120V input current: 0.09A	277V Input Current: 0.04A			

1500 Lumen D010				
Input power: 15.5W	THD: <13%			
120V input current: 0.13A	277V Input Current: 0.06A			

2000 Lumen D010				
Input power: 21.2W	THD: <9%			
120V input current: 0.18A	277V Input Current: 0.08A			

3000 Lumen D010				
Input power: 27.6W	THD: <10%			
120V input current: 0.23A	277V Input Current: 0.10A			

Photometric Data



Test Report: P201210 Housing: LD4B15D010 Module: EU4B10208035 Trim: 4LBCS1MMS Lumens: 1497 Input Watts: 14.3W Efficacy: 104.7 Lm/W



🖌 View IES files

Test Report: P201204 Housing: LD4B15D010 Module: EU4B10208035

Trim: 4LBW1LI Lumens: 1518 Input Watts: 14.3W Efficacy: 106.2 Lm/W



Connected Systems



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Specifications and dimensions subject to change without notice.