



RECESSED LED

FDC320 (2X2) SERIES (2X4 AVAILABLE)

TRIM FLANGED DIRECT ILLUMINATED CENTER LENSED LUMINAIRE

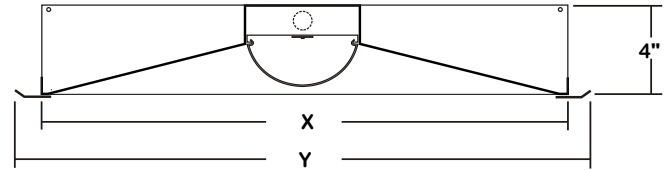


DATE	
JOB	

WWW.LALIGHTING.COM
626-454-8300

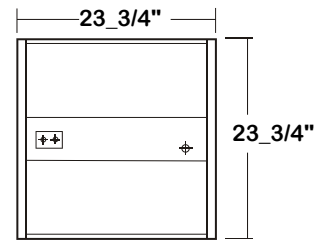
RECESSED MOUNTED LED LUMINAIRE

DIMENSIONS



Ceiling Opening X - 24_1/2" x 24_1/2"
Overall Width By Length Y - 26" x 26"

ACCESS PLATE
 7/8" K.O.



APPLICATIONS

- Commercial, Office, Classroom

FEATURES

- 0-10V dimming driver standard (See *DRIVER OPTIONS* for other dimming types)
- Supports California Title 24 compliance

OPTIONS

- Continuous row mounting available upon request
- Full customization available upon request
- Additional lumen packages and color temperatures available
- Wireless control options available (See *SENSOR OPTIONS* for wireless controls)
- Emergency battery pack available (See *BATTERY PACK OPTIONS* for battery pack options)
- Hanger yokes available (See *ACCESSORIES* for details)
- Swing-out jacks available (See *ACCESSORIES* for details)

SPECIFICATIONS

CONSTRUCTION

- 22 ga. cold rolled steel housing and reflector
- 18 ga. trim flange

FINISH

- High reflectance low gloss matte white finish
- Trim flange: painted after fabrication
- Door frame: painted after fabrication

OPTICAL

- Frosted radial lens to maximize lumen output while cutting glare

ELECTRICAL

- High efficiency drivers coupled with long-life LEDs
- Service life tested at 50,000-148,000 hours (L70)
- Universal voltage 120V through 277V (347V / 480V available)
- Power Factor (PF) ≥ 0.9
- Total Harmonic Distortion (THD) ≤ 20%

LISTING

- UL USA and Canada listed / suitable for damp locations

WARRANTY

- 5-year limited warranty



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Headquarters
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El Monte, CA 91731
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Revised 10-16-18

WARNING

ORDERING INFORMATION EXAMPLE: FDC320-4-2L-BPL10-1DRDM-UNV-1/840

SERIES	LED LUMEN PACKAGE	EFFICACY	NOMINAL LENGTH	ELECTRICAL	DRIVER	VOLTAGE	# OF LED ROW	CRI / CCT
FDC320			2L		1DRDM	UNV	1	
FDC320 Trim Flanged Direct Illuminated Center Lensed LED Luminaire	1 Nom. 1000 Lumens 2 Nom. 2000 Lumens 3 Nom. 3000 Lumens 4 Nom. 4000 Lumens 6 Nom. 6000 Lumens *Additional Lumen Packages Available	(Blank) Standard (Only 1000 / 2000 / 3000 / 4000 lumens Systems) HE High Efficacy	2L 2' x 2'	BPL10 Emergency Battery Pack, Constant 10W Nom. 1500 lm <i>See BATTERY PACK OPTIONS for Options</i> WLC(XXXX) Wireless Control <i>See SENSOR OPTIONS for Options</i> *Leave Blank if Not Specified <i>Additional Electrical Options</i>	1DRDM 0-10V One Dimming Driver <i>See DRIVER OPTIONS for Options</i>	UNV 120V-277V <i>See DRIVER OPTIONS for Options</i>	1 One LED Row	830 80+CRI / 3000K Color Temp. 835 80+CRI / 3500K Color Temp. 840 80+CRI / 4000K Color Temp. 850 80+CRI / 5000K Color Temp. *Additional Color Temp. Available

SYSTEM DATA

THESE ARE THE MOST POPULAR LUMEN PACKAGES. PLEASE CONSULT FACTORY FOR ADDITIONAL SYSTEM DATA.

LED LUMEN PACKAGE	NORMAL AMBIENT TEMPERATURE PRODUCT CODE	DELIVERED LUMENS	SYSTEM WATTS	LUMINAIRE EFFICACY	AMBIENT TEMP.	FLUORESCENT / HID / CFL EQUIVALENT	IES FILES
1000 Lumens (Nominal)	FDC320-1-2L-1DRDM-UNV-1/840	1006 lm	7.9 W	128.0 lm/W	-20°C / 35°C	1-F17T8	*
2000 Lumens (Nominal)	FDC320-2-2L-1DRDM-UNV-1/840	1923 lm	16.7 W	115.4 lm/W	-20°C / 35°C	2-F17T8, 1-F24T5HO, 1-BX40	*
3000 Lumens (Nominal)	FDC320-3-2L-1DRDM-UNV-1/835 *	2589 lm	26.2 W	98.7 lm/W	-20°C / 35°C	3-F17T8, 1-BX55	LA-T3252-1
	FDC320-3-2L-1DRDM-UNV-1/840 *	2833 lm	26.2 W	99 lm/W			*
4000 Lumens (Nominal)	3-FDC320-4K-2L-1DRDM-UNV-1/835 *	3434 lm	34.61 W	99 lm/W	-20°C / 35°C	4-F17T8, 2-F24T5HO, 2-BX40	*
	3-FDC320-4K-2L-1DRDM-UNV-1/840 *	3465 lm	35 W	99 lm/W			*
	FDC320-4-2L-1DRDM-UNV-1/840	3587.5 lm	26.4 W	135.9 lm/W			LA-T3251-1
	3-FDC320-4K-2L-1DRDM-UNV-1/850 *	3485 lm	35.2 W	99 lm/W			*

LED LUMEN PACKAGE	NORMAL AMBIENT TEMPERATURE (HIGH EFFICACY) PRODUCT CODE	DELIVERED LUMENS	SYSTEM WATTS	LUMINAIRE EFFICACY	AMBIENT TEMP.	FLUORESCENT / HID / CFL EQUIVALENT	IES FILES
1000 Lumens (Nominal)	FDC320-1HE-2L-1DRDM-UNV-1/840	969 lm	6.2 W	155.4 lm/W	-20°C / 35°C	1-F17T8	*
2000 Lumens (Nominal)	FDC320-2HE-2L-1DRDM-UNV-1/840	1909 lm	12.9 W	148.4 lm/W	-20°C / 35°C	2-F17T8, 1-F24T5HO, 1-BX40	*
3000 Lumens (Nominal)	FDC320-3HE-2L-1DRDM-UNV-1/840	2782 lm	19.6 W	141.7 lm/W	-20°C / 35°C	3-F17T8, 1-BX55	*
4000 Lumens (Nominal)	FDC320-4HE-2L-1DRDM-UNV-1/840	3704 lm	25.7 W	144.1 lm/W	-20°C / 35°C	4-F17T8, 2-F24T5HO, 2-BX40	LA-T3291-1
6000 Lumens (Nominal)	FDC320-6HE-2L-1DRDM-UNV-1/840	5866 lm	41.4 W	141.8 lm/W	-20°C / 35°C	6-F17T8, 3-F24T5HO, 2-BX55	LA-T3364-1

NOTE:
System data is based on 120V input voltage. DLC system data* based on DLC testing parameters. Actual performance may differ as a result of end-user environment and application.

This fixture has been tested and listed in accordance with UL Standards. L.A. Lighting certifies that it will operate safely when installed properly, and within an ambient temperature range noted in the system data table.

Additional lumen packages and color temperatures available.

Due to constant updates on this product, please visit the [DLC QPL Website](#) for the most accurate system data and information.



PERFORMANCE DATA

[VIEW PHOTOMETRICS](#)



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WARNING

SENSOR OPTIONS

LUTRON CONTROLS AND SENSORS

WLC(FCJS0) - Lutron® Vive PowPak® 0-10V Wireless Fixture Control

- One per fixture (external mount)
- Controls 1A of load or up to 3 drivers
- Universal Voltage (120V-277V)

WLC(FCJSE) - Lutron® Vive PowPak® EcoSystem Wireless Fixture Control

- One per fixture (external mount)
- Controls 1A of load or up to 3 drivers
- Universal Voltage (120V-277V)

**Must specify Lutron® Vive compatible driver*

WLC(VDO) - Lutron® Wireless Fixture Sensor

- Need Dexal driver
- One per fixture
- Turn light on/off based on motion
- 15 minutes time delay default
- Daylight sensor provide linear response to changes in light level.
- Up to 300 sq.ft major motion coverage and 150 sq.ft. minor motion coverage based on 9' mounting height.
- Work standalone or with Vive wireless control system
- Work with driver has integrated self-powered DALI link or Lutron EcoSystem driver (additional Lutron® digital link interface required)

WLC(VRF) - Lutron® Wireless Fixture Control

- Need Dexal driver
- One per fixture
- Wireless control module
- Work with Vive wireless control system
- Work with driver has integrated self-powered DaLI link or Lutron EcoSystem driver (additional Lutron® digital link interface required)

PJ2-2BRL - Lutron® Pico® 2-Button Wireless Remote

- Works with Wireless Fixture Controls
- Controls ON/OFF and dimming UP/DOWN

FC-SENSOR - Lutron® PowPak® Occupancy/Daylight Sensor

- Turns light ON/OFF based on motion
- Recommended mounting height of 8-12'
- For dry and damp locations
- Universal Voltage (120V-277V)

FC-VSENSOR - Lutron® PowPak® Vacancy/Daylight Sensor

- Turns light OFF when area is vacant
- Recommended mounting height of 8-12'
- For dry and damp locations
- Universal Voltage (120V-277V)



CONTROLS AND SENSORS

WLC(LEDRLU) - EnOcean® LED Relay Zone Controller

- Supports a single LED fixture or multiple daisy chained LED fixtures
- Module installed inside lighting fixture

ESRPU-W-EO - EnOcean® Rocker Switch – Single – Surface Mount

- Wireless single rocker switch with mounting plate
- No batteries needed

EDRPU-W-EO - EnOcean® Rocker Switch – Double – Surface Mount

- Wireless double rocker switch with mounting plate
- No batteries needed

S3054-N300 - EnOcean® Navigan NWC 300U – Commissioning Tool

- Navigan Wireless Commissioner is used to configure EnOcean controllers & sensors
- It can be used to define link tables, change parameters/settings, and to edit & store projects
- Configuration settings can be saved and cloned to enable quick configuration
- Connectivity is through the NWC 300U USB Stick

EOSWU-W-EO - EnOcean® Occupancy Sensor – Wall Mount

- Wireless wall mounted occupancy sensor
- Solar powered - no batteries needed (coin battery operated in low light conditions)
- PIR motion sensor with both wide angle (50') and long range (100') options
- Mounting height: 6-8 feet

EOSCU-W-EO - EnOcean® Occupancy Sensor – Ceiling Mount

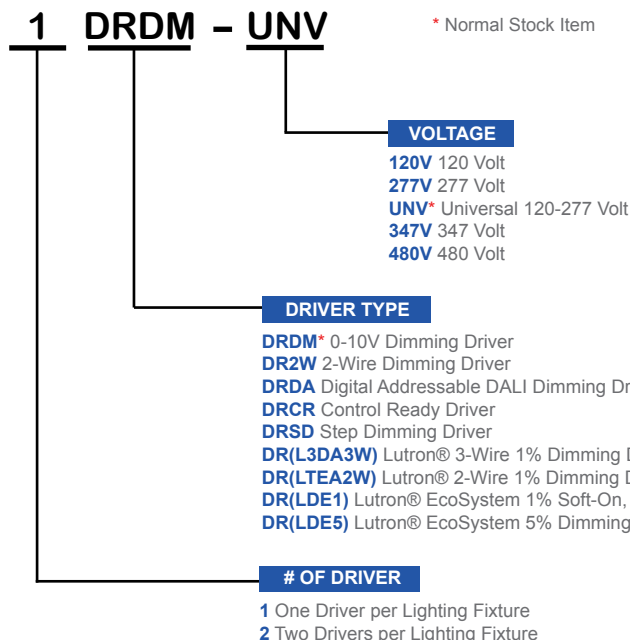
- Wireless ceiling mounted occupancy sensor
- Solar powered - no batteries needed (coin battery operated in low light conditions)
- PIR motion sensor with 360 degree viewing angle lens (34' diameter)
- Mounting height: 7-10 feet

ELLSU-W-EO - EnOcean® Light Level Sensor – Ceiling Mount

- Light Level sensor that measures and reports the level of available natural light
- Solar powered - no batteries needed (coin battery operated in low light conditions)
- Enables implementation of daylight harvesting control systems
- Mounting position: At the ceiling, close to ambient light source

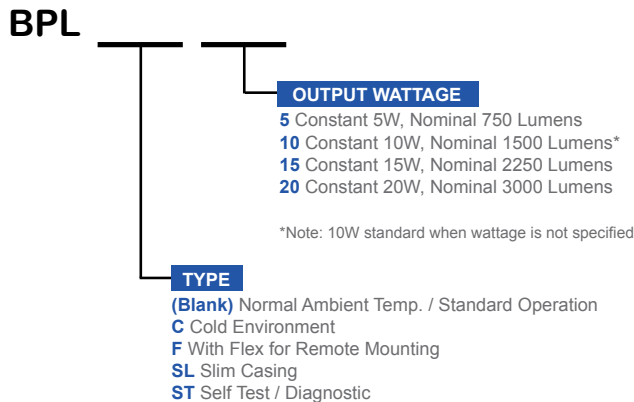
DRIVER OPTIONS

PLEASE CONSULT FACTORY TO SEE IF YOUR SELECTED DRIVER OPTION WORKS WITH THIS FIXTURE.



BATTERY PACK OPTIONS

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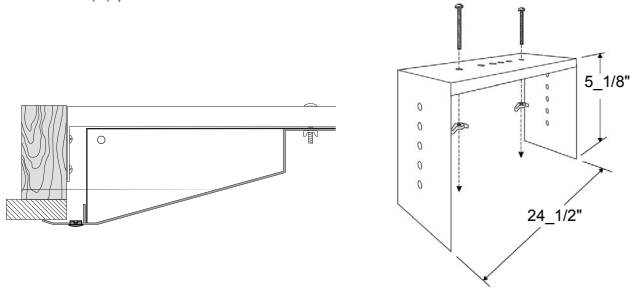
Revised 10-16-18

WARNING

ACCESSORIES

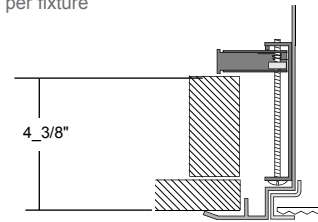
HS-24_1/2

- Hanger Yokes
- Compatible with all types of recessed flanged fixtures
- 1/4 - 20 x 3" machine screws locate into knockout on back of fixture housing
- Two (2) per fixture



SOJ-FDC-2

- Swing-Out Jacks
- Compatible with selected types of recessed flanged fixtures
- Spring loaded adjustable mounting bracket for mounting in drywall or plaster type ceiling
- Two (2) brackets on each side of fixture housing
- Four (4) per fixture



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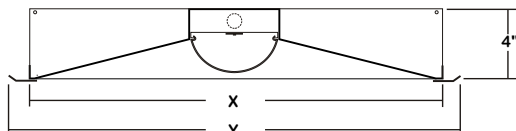
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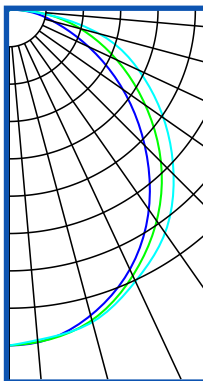
PHOTOMETRIC DATA - FDC320, 2X2

FDC320-4-2L-1DRDM-UNV-1/840

TEST NO. = LA-T3251-1
 LED TYPE = 40 LED MODULE
 NO. OF MODULE = 1
 SYSTEM WATT (W) = 26.4
 CRI ≥ 80
 L70(Hrs.) ≥ 50,000
 PHOTOMETRY TYPE = C



Ceiling Opening X - 24_1/2" x 24_1/2"
 Overall Width By Length Y - 26" x 26"



CANDLEPOWER

ANGLE	END	45	CROSS
0	1303	1303	1303
5	1261	1263	1256
15	1205	1209	1216
25	1076	1115	1142
35	928	981	1029
45	728	815	885
55	527	632	717
65	335	449	543
75	176	280	358
85	66	100	87
90	3	2	1
95	0	0	0
105	0	0	0
115	0	0	0
125	0	0	0
135	0	0	0
145	0	0	0
155	0	0	0
165	0	0	0
175	0	0	0
180	0	0	0

ZONAL LUMEN SUMMARY

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	980	24.5	27.3
0-40	1594	40.0	44.4
0-60	2784	69.6	77.6
0-90	3587.6	89.7	100.0
90-120	0.59	0.01	0.02
90-150	0.59	0.01	0.02
90-180	0.59	0.01	0.02
0-180	3588	89.8	100.0

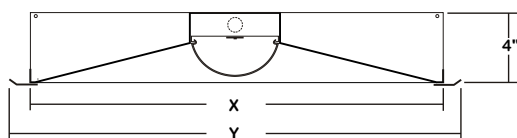
Luminaire Output = 3587.5 lumens
 Luminaire Efficacy = 135.9 lm/W

SPACING CRITERION

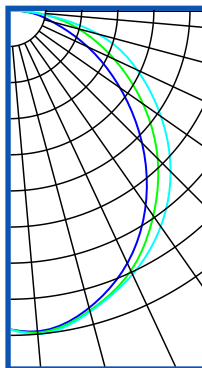
ALONG	ACROSS
1.14	1.24

FDC320-4HE-2L-1DRDM-UNV-1/840

TEST NO. = LA-T3291-1
 LED TYPE = 48 LED MODULE
 NO. OF MODULE = 1
 SYSTEM WATT (W) = 25.7
 CRI ≥ 80
 L70(Hrs.) ≥ 50,000
 PHOTOMETRY TYPE = C



Ceiling Opening X - 24_1/2" x 24_1/2"
 Overall Width By Length Y - 26" x 26"



CANDLEPOWER

ANGLE	END	45	CROSS
0	1301	1301	1301
5	1295	1296	1295
15	1245	1245	1256
25	1117	1148	1171
35	957	1014	1064
45	756	840	913
55	543	656	741
65	343	465	562
75	179	290	371
85	67.9	102.5	90.3
90	3.5	2.61	1.8
95	0	0	0
105	0	0	0
115	0	0	0
125	0	0	0
135	0	0	0
145	0	0	0
155	0	0	0
165	0	0	0
175	0	0	0
180	0	0	0

ZONAL LUMEN SUMMARY

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	1008	24.3	27.2
0-40	1644	39.7	44.4
0-60	2874	69.4	77.6
0-90	3703	89.4	100
90-120	0.07	0.01	0.02
90-150	0.07	0.01	0.02
90-180	0.07	0.01	0.02
0-180	3704	89.4	100.0

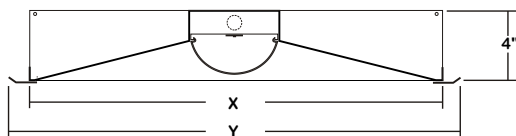
Luminaire Output = 3704 lumens
 Luminaire Efficacy = 144.12 lm/W

SPACING CRITERION

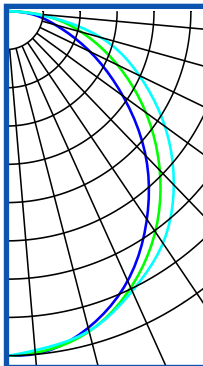
ALONG	ACROSS
1.19	1.27

FDC320-6HE-2L-1DRDM-UNV-1/840

TEST NO. = LA-T3364-1
 LED TYPE = 48 LED MODULE
 NO. OF MODULE = 1
 SYSTEM WATT (W) = 41.4
 CRI ≥ 80
 L70(Hrs.) ≥ 50,000
 PHOTOMETRY TYPE = C



Ceiling Opening X - 24_1/2" x 24_1/2"
 Overall Width By Length Y - 26" x 26"



CANDLEPOWER

ANGLE	END	45	CROSS
0	2071	2071	2071
5	2065	2058	2043
15	1961	1984	1983
25	1773	1820	1844
35	1506	1600	1686
45	1202	1330	1455
55	856	1036	1184
65	544	738	890
75	286	458	582
85	108	164	144
90	5	4	2
95	0	0	0
105	0	0	0
115	0	0	0
125	0	0	0
135	0	0	0
145	0	0	0
155	0	0	0
165	0	0	0
175	0	0	0
180	0	0	0

ZONAL LUMEN SUMMARY

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	1597	24	27
0-40	2600	40	44
0-60	4552	70	78
0-90	5865	90	100
90-120	1	0	0
90-150	1	0	0
90-180	1	0	0
0-180	5866	90	100

Luminaire Output = 5865.8 lumens
 Luminaire Efficacy = 141.7 lm/W

SPACING CRITERION

ALONG	ACROSS
1.18	1.26

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