

FEATURES

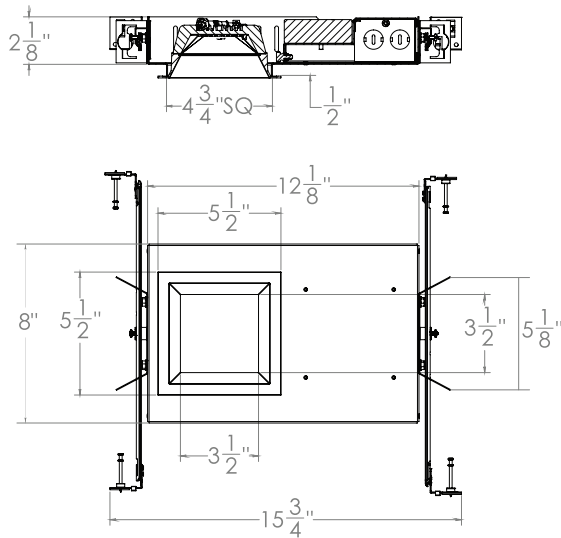
An innovative, high-performance shallow plenum architectural LED Square downlight for applications that demand a shallow housing, optimizing functionality and glare free illumination. Available in a range of distributions and lumen packages, it is the perfect solution for commercial elevator lobbies, hospitality, high-end residential, and retail applications.

LUMENS	900, 1200, 1500, 2000 (Custom lumen packages available)
CCT & DYNAMIC PLATFORMS	27K, 30K, 35K, 40K, 50K, Dims to Warm
CRI	90+ Standard, 98+ optional
COLOR QUALITY	2 Step MacAdam Ellipses
DISTRIBUTION	WD (Wide Distribution) 50 degree visual cutoff
TRIM OPTIONS	Square, Trim and Trimless Downlighting
REFLECTOR COLORS	WH (White), Custom RAL
FLANGE COLORS	WH (White), Custom RAL
DIMMING	0-10V Flicker Free 1% Dimming Standard (DIM10), LUTH, LUTFTB, ELD010.1, ELD0DMX.1, ELD0DALI.1, DIMTR
EMERGENCY	10W - Up to 1000L Output 20W - Up to 2000L Output EMG-LED-G2-10W-SDT - Self Diagnostic (Consult Factory)
LIFETIME	102,000 Hours
PHOTOMETRIC TESTS	In Accordance with IES LM79-08, LM80 and TM-30, TM-21

REFLECTOR/ TRIM COLOR



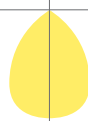
WH-WH-White



NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
2000	2194	17W
1500	1506	13W
1200	1396	10W
900	1019	7W

Based on 4000K, 90+ CRI. Actual wattage may vary +/- 5%

WD: WIDE
Candle Power Distribution (Candelas)



TRIM OPTION

Square Trim and Trimless

HOUSING

Thermally protected, specification grade recessed housing. For new construction non insulated or insulated ceilings where housing will be in direct contact with insulation. Die-formed all aluminum construction mat black painted for maximum heat dissipation, rust protection and glare free illumination.

MOUNTING

Pre-installed bar hangers allow housing to be positioned and locked at any point within a 24" joist span. Bar hangers can fit onto T-Bar spline with additional slots and holes for special mounting methods if necessary. Butterfly brackets are also provided and are constructed from 18-gauge steel and can be adjusted vertically. Butterfly brackets may be installed with 3/4" or 1-1/2" lathing channel, 1/2" EMT, or optional C-Channel mounting bars are available.

DRIVER ELECTRICAL INFORMATION

The LED driver is rated for 50 to 60Hz at 120V/277V also available in 347V input, produces less than 20%THD, and has a power factor between 90% and 100%, and is thermally protected for additional safety. Junction box and Driver can be accessed from below the ceiling and above the ceiling. Junction Box is Listed for through branch circuit wiring.

LISTINGS

c-UL-us - Listed for Feed Through Wiring.

c-UL-us - Listed for Damp Location.

All LED luminaires are rated and tested to LM-79 and LM-80 standards by an independent laboratory.

Energy Star, JA8 and California Title 24 compliant.

DIMMING & DRIVER INFORMATION

DIM10 - 0-10V dimming on either MVOLT 120V or 277V, 347V. Dimmable down to 1% of initial lumens, standard.

DIMTR - Triac & Electronic low voltage dimming. Available in 120V.

LUTH - Lutron LDE1 Hi-Lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology.

LUTFTB - Lutron PEQ0E Hi-Lume Premier 0.1% EcoSystem LED Driver with Soft-on in Fade-to-Black dimming technology.

DALI - DALI DT6, DT8 dimming down to 1%. Available on all luminaires up to 100 watts.

ELDODMX - EldoLED PowerDrive dimming down to 0.1%. Please see EldoLED website for wiring diagrams and a list of compatible DMX and Dali control systems.

WARRANTY

Five-year carefree warranty for parts and components. (Labor not included.)

LED DYNAMIC PLATFORM OPTIONS

Dims to Warm with SmartDimming Technology. At 100% full brightness the luminaire is at 3000K. When dimmed to 1%, the light transitions to 1800K, creating a warm ambiance within the space.



HOUSING

	TYPE	LUMEN	DIMMING	VOLTAGE	EMERGENCY OPTIONS	MOUNTING OPTIONS
HIGH PERFORMANCE	SS4-LED	☐ 900L ☐ 1200L ☐ 1500L ☐ 2000L	☐ DIM10 ☐ DIMTR ☐ LUTTH ☐ LUTFTB ☐ ELDO10.1 ☐ DALI.1 ☐ ELDDOMX.1	☐ 120 ☐ 277 ☐ 347 (DIM10 only) ☐ MVOLT	☐ EMG-LED-10W ☐ EMG-LED-20W ☐ EMG-LED-G2-10W-SDT* * Consult Factory for Self Diagnostic	☐ Blank-Standard bar hangers (included) ☐ BP31 - 27" C-channel bar hangers. ☐ RIF - RIF filter.

DIMTR, LUT2W - 120V only

LUTH, ELDO10, DALI, ELDODMX - 120-277V

TRIM OPTIONS

TRIM TYPE	LUMENS	OPTICS	CCT-CRI	FINISH
☐ SS4-F-1428 (Flanged trim)	☐ 900L ☐ 1200L ☐ 2000L	☐ WD (Wide)	☐ 27K-90 ☐ 30K-90 ☐ 35K-90 ☐ 40K-90 ☐ 50K-85	☐ W-WH
☐ SS4-TL-1428 (Trim-less)	☐ 900L ☐ 1200L ☐ 2000L	☐ WD (Wide)	☐ 27K-90 ☐ 30K-90 ☐ 35K-90 ☐ 40K-90 ☐ 50K-85	☐ WH

SS4-LED-900L-DIM10-MVOLT-40K-90

INPUT WATTS: **10.1**

LUMENS: **1075**

CRI: **90**

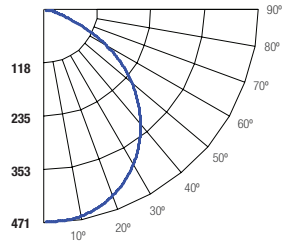
EFFICACY: **106**

CCT: **4000K**

TEST NO.: **EL1218112**

SPACING CRITERIA: **1.30**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	170.11	15.80	15.80
0-30	357.08	33.20	33.20
0-40	573.81	53.40	53.40
0-60	948.35	88.20	88.20
0-80	1066.17	99.20	99.20
0-90	1074.7	100.00	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	48619	46777	42897
55	41660	40287	34900
65	25567	30193	20882
75	10494	11394	9464
85	9295	10268	10200

Lumens Per Zone

Zone	Lumens
0-10	44.34
10-20	125.78
20-30	186.97
30-40	216.73
40-50	209.19
50-60	165.36
60-70	89.20
70-80	28.62
80-90	8.52

Candela Tabulation

Q	
0	470.38
5	469.23
15	452.15
25	415.20
35	359.47
45	287.72
55	199.98
65	90.43
75	22.73
85	6.78
90	0.81

Coefficients of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance 0.20

RC		80%				70%				50%				30%				10%				0%	
RW		70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%	
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100		
	1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87	87	87		
	2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75	75	75		
	3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65	65	65		
	4	86	75	67	61	84	74	66	61	71	65	60	69	63	59	67	62	58	56	56	56		
	5	79	68	59	53	77	66	59	53	64	58	52	63	56	52	61	55	51	49	49	49		
	6	74	61	53	47	72	60	52	47	59	51	46	57	51	46	55	50	45	44	44	44		
	7	68	56	47	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39	39	39		
	8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35	35	35		
	9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	31	31	31		
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29	29	29			

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

SS4-LED-1200L-DIM10-MVOLT-40K-90

INPUT WATTS: **13.8**

LUMENS: **1479**

CRI: **90**

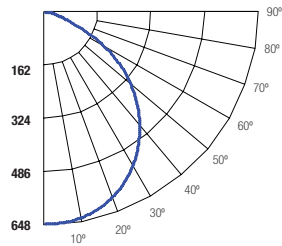
EFFICACY: **107**

CCT: **4000K**

TEST NO.: **EL1218111**

SPACING CRITERIA: **1.30**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	234.21	15.80	15.80
0-30	491.60	33.20	33.20
0-40	789.88	53.40	53.40
0-60	1305.41	88.30	88.30
0-80	1467.45	99.20	99.20
0-90	1479.18	100.00	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	66921	64490	59057
55	57271	55438	48043
65	34623	41533	28759
75	14372	15669	13051
85	12709	14121	14080

Lumens Per Zone

Zone	Lumens
0-10	61.04
10-20	173.17
20-30	257.39
30-40	298.28
40-50	287.92
50-60	227.61
60-70	122.68
70-80	39.36
80-90	11.73

Candela Tabulation

Q	
0	647.02
5	645.79
15	622.35
25	571.63
35	494.94
45	396.03
55	274.92
65	122.46
75	31.13
85	9.27
90	1.09

Coefficients of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance 0.20

RC		80%				70%				50%				30%				10%				0%	
RW		70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%	
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	106	106	106	102	102	102	100	
	1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87	87	87	87	
	2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75	75	75	75	
	3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65	65	65	65	
	4	86	75	67	61	84	74	66	61	71	65	60	69	63	59	67	62	58	56	56	56	56	
	5	79	68	59	53	77	66	59	53	64	58	52	63	56	52	61	55	51	49	49	49	49	
	6	74	61	53	47	72	60	52	47	59	51	46	57	51	46	55	50	45	44	44	44	44	
	7	68	56	47	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39	39	39	39	
	8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35	35	35	35	
	9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	31	31	31	31	
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29	29	29	29		

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

SS4-LED-2000L-DIM10-MVOLT-40K-90

INPUT WATTS: **22.6**

LUMENS: **2335**

CRI: **90**

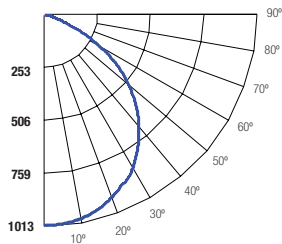
EFFICACY: **103**

CCT: **4000K**

TEST NO.: **EL1218110**

SPACING CRITERIA: **1.32**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	366.32	15.70	15.70
0-30	771.15	33.00	33.00
0-40	1243.32	53.20	53.20
0-60	2060.64	88.20	88.20
0-80	2316.78	99.20	99.20
0-90	2335.27	100.00	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	106206	102231	93750
55	90956	87907	76245
65	54918	65873	45621
75	22797	24837	20678
85	20181	22401	22319

Lumens Per Zone

Zone	Lumens
0-10	95.46
10-20	270.86
20-30	404.83
30-40	472.16
40-50	456.32
50-60	361.01
60-70	194.19
70-80	61.94
80-90	18.49

Candela Tabulation

Q	
0	1011.93
5	1009.73
15	972.97
25	897.80
35	786.03
45	628.51
55	436.62
65	194.24
75	49.38
85	14.72
90	1.72

- 1- Luminaire will be shipped with Powerpacks pre-installed, ready to be integrated to designated control systems
 2- Luminaire will be shipped with Sensors installed on the luminaire, allowing for individual luminaire control. Luminaires will be ready to be integrated with designated control systems
 3- Luminaire will be shipped with Sensors to be remotely installed on the ceiling. Luminaires will be ready to be integrated with designated control systems

BRAND	EASYFIT by EnOcean	LUTRON	enlighted	LEVITON	OSRAM	PHILIPS EasySense	legrand®
CONTROL UNIT	☐ LEDRU LED Relay Zone Controller 0-10V ¹ ☐ LEDDU LED Zone Controller 0-10V ¹	☐ FCJS-010 Lutron Vive 0-10V Individual Pow Pak (Luminare is shipped Vive Enabled) ¹⁴ ☐ FCJS-ECO Lutron Vive Eco-system Pow Pak (Luminare is shipped Vive Enabled) ☐ A-WN-D01-RF-WH Athena wireless node (RF only) (White) ☐ A-WN-D01-OCC-WH Athena wireless node with sensor (White)	☐ CU-4E-FMH Fixture Mount Control Unit ¹⁵	☐ ZL027 -NOW Intellect Power Control Module ¹⁶ ☐ ZL027 -NOW Intellect Power Control Module ¹⁶	☐ EN-WCM2-ZB-DR Wireless Control Module ¹⁷ ☐ EN-ALC-ZB-BK-DR Wireless Area Lighting Control Module ¹⁷ ☐ ZBHA-CLM-DIM-ENC Connected Lighting Module DIM ¹⁷	☐ SBR-BS Xitanium SR Bridge ¹⁸	☐ LMFC-011 ON/OFF/0-10V dimming fixture controller ¹⁹
INTEGRAT SENSOR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
*WIRELESS OCCUPANCY SENSOR	☐ EOSCU-W-EO Occupancy Sensor - Ceiling Mounted (Must be specified with LEDRU or LEDDU control unit) ³	N/A	N/A	N/A	N/A	N/A	☐ LMDC-100 Dual technology PIR Ceiling Mount Occupancy Sensor ³
*WIRELESS DAYLIGHT SENSOR	☐ ELLSU-W-EO Light Level Sensor - Ceiling Mounted (Must be specified with LEDRU or LEDDU control unit) ³	N/A	N/A	N/A	N/A	N/A	☐ LMLS-400 Single zone switching and dimming digital photosensor ³
*WIRELESS OCCUPANCY & DAYLIGHT SENSOR	N/A	N/A	☐ SU-5E-IoT IoT Node Micro Sensor ³ ☐ SU-5E-CL Connected Lighting Micro Sensor ³ ☐ SU-5E-IL Independent Lighting / Enlighted One Micro Sensor ³ ☐ SU-5S-H-(IoT/CL/IL) Surface Mount Sensor ³ (Must be specified with CU- 4E-FMH Control Unit)	☐ ZL00J -TOW Intellect Intelligent Fixture Control System ³ (Must be specified with ZL027 -NOW Control Unit)	☐ EN-CLM-PIR-DD-ZB SensiLUM™ Wireless Integrated Sensor ☐ EN-SCPPH-1500-ZB Wireless Passive Infrared Occupancy and Photo Sensors ³ (Must be specified with EN-WCM2-ZB-DR or EN- ALC-ZB-BK-DR Control Unit)	☐ SNS200- CMP SNS200 for grouping ³	N/A
ACCESORIES	N/A	N/A	☐ TMC-SU-5E Tile Mount Carrier ☐ CBL-5E-CU4-30N 30 inch Sensor Cable for CU-4 and IoT Ready™ drivers ☐ CBL-5E-CU4-7F 7 foot Sensor Cable for CU-4 and IoT Ready™ drivers	N/A	N/A	N/A	N/A
NOTES	N/A	4- Luminaire will be compatible with Lutron LRF2-OCR2B-P-WH Ceiling mount 360° occupancy/vacancy sensor & LRF2-DCRB-WH Ceiling-mount daylight sensor. Sensors must be ordered through Lutron.	5- Luminaire will be compatible with ENLIGHTED SU-5E-IoT, SU-5E-CL, SU-5E-IL, SU-5S-H, Sensors.	6-Luminaire will be compatible with Leviton Intellect App & Keypad Room Controller	7-Luminaire will be compatible with EN-SCPPH-1500-ZB Wireless Passive Infrared Occupancy and Photo Sensors	8-Luminaire will be compatible with Philips field and wireless switch.	9-Luminaire will be compatible with DLM Room control system LMPB-100. DLM control system must be ordered through Legrand.