

FEATURES

The OBLD-LED blends the traditional look of an architectural volumetric troffer with a center acrylic diffuser, resulting in unmatched optical performance that delivers the latest in LED technology and lens innovation. The integrated LEDs are strategically angled behind the center indirect acrylic diffuser to maximize lumen output and provide even illumination across the full face of the luminaire. The consistency of the volumetric effect results in optimized visual comfort, enhancing the quality of illumination. The combination of energy savings and optical performance creates the ideal choice for educational, medical, office and retail spaces.

LUMENS	3000, 4000, 5000
CCT & DYNAMIC PLATFORMS	30K, 35K, 40K, 50K
CRI	85+
COLOR QUALITY	3 Step MacAdam Ellipse
SIZE	2'x2', 2'x4'
MOUNTING	Recessed
DIMMING & CONTROL	0-10V Flicker Free 1% Dimming Standard (DIM10), LUTH, LUTFTB, LUT2W, DIMST, ELDO10.1, ELDODMX.1, DALI.1
EMERGENCY	10W - Up to 1000L output (Bodine BSL310) 20W - Up to 2000L output (Bodine BSL20)
LIFETIME	L70 at 50,000 Hours
PHOTOMETRIC TESTS	In Accordance with IES LM79-08, LM80 and TM-30, TM-21

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
5000	5238	66 W
4000	4162	50 W
3000	3000	36 W

Based on 4000K, 85+ CRI. Actual wattage may vary +/- 5%



MAINTENANCE

The center acrylic diffuser can be removed, allowing easy access to LED boards and driver compartment, locking into place for secure closure of the luminaire. LED engines and drivers are removable and upgradable even after luminaire installation. Luminaire can be regularly and safely wiped down to ensure optimal performance.

OPTICAL SYSTEM

Diffuser is composed of a two-part system that includes a thin frosted acrylic sheet and a steel perforated lamp shield. The system works together to gather the light scattered by the LED chips and delivers uniform voluminous light into any environment. A single line of Shiloh Series perforated louvers run down the center of the diffuser to increase the amount of directed task lighting. The lens can be easily removed without the use of tools in case maintenance is required.

CONSTRUCTION

Body is constructed of heavy-duty 20-gauge cold rolled steel, post-painted and engineered for maximum strength and extended life. All corners interlock to prevent aesthetic damage to the luminaire, with sides and corners uniformly turned in and hemmed to remove sharp edges for safe handling and easy installation. Luminaire is supplied with multiple wiring entrances for easy daisy chain of luminaires, to add power packs, whips, or other accessories in the field, or for continuous row mounting.

FINISH

Post-painted with a 93% reflective white coat to improve luminaire efficacy, with all body components seamlessly interlocked for added structural strength.

MOUNTING

Luminaires accommodate lay-in ceilings, Slot T, and T-bar suspension systems for 5/8" and 3/8" ceiling thicknesses. Four corner tie points are standard for safety wire support when required, with built-in earthquake clips, standard. Luminaires may be available with flange kits, surface mounted kits, and other options.

OPTIONS

Luminaires can be shipped pre-installed with whips, modular wiring systems, daylight harvesting controls, occupancy sensors, and/or power packs for individual or room control applications.

DRIVER ELECTRICAL INFORMATION

Powered by high-quality constant-current power LED drivers which are rated for 50 to 60Hz at 120/277V input. Available in 347V., produce less than 20% THD, and have a power factor of .90 to 1.00.

DIMMING & DRIVER INFORMATION

- DIM10** - Flicker Free 1% Dimming Standard (DIM10) 0-10V dimming on either MVOLT 120, 277 or 347V.
- LUT2W** - Lutron LTEA2W Hi-Lume 1%. 2-wire LED driver (120V forward phase only).
- LUTH** - Lutron LDE1 Hi-Lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology.
- ELDO10.1** - EldoLED SoloDrive 0-10V. Dimming down to 0.1%.
- DALI** - DALI DT6, DT8 dimming down to 1%.
- 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.
- DIMST** - Step Dimming

WARRANTY

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

LISTINGS

c-UL-us - Listed for Feed Through Wiring.
Listed for DLC, California Title 24 compliant.

Example: **24-OBLD-LED-4000L-DIM10-MVOLT-30K-85**

24	OBLD	LED								
FIXTURE SIZE	SERIES	TYPE	LUMENS	DIMMING	VOLTAGE	CCT	CRI	EMERGENCY	OTHER OPTIONS	
24 - 2' X4'	OBLD - LED	LED	3000L - 3000 lumens 4000L - 4000 lumens 5000L - 5000 lumens	DIM10 - 0-10V Dimming DIMST - Step Dimming LUTH - Lutron HiLume LUT2W - Lutron 2Wire ELDO10.1 - EldoLED 0-10V DALI - EldoLED DALI ELDODMX - EldoLED DMX	MVOLT 347* 120 277	30K 35K 40K 50K	85	0-EMG-LED-10W 0-EMG-LED-20W	24FK - 2'x4' Flange Kit FBF - Internal Fast Blow Fuse SBF - Internal Slow Blow Fuse RIS - Radio Interference Suppressor USA - Made in America Compliance FS-PPV2 - Fixture Sensor Power Pack FD-301 - Low Voltage Daylight Dimming Photosensor LMFC-011 - Digital Lighting Manager FS-205 - Low Voltage Pir Fixture Integrated Occupancy Sensor	

LUT2W are available in 120V only LUT2W up to 4000L
LUTH, ELDO10.1, ELDODALI-1, and ELDODMX-1 are available in 120V and 277V
-Reference last page for Control Options

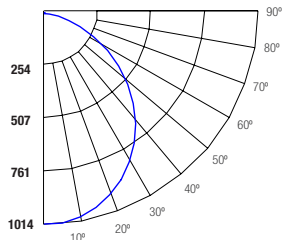
*FD-301 & FS-205 require FS-PPV2- Power Pack

24-OBLD-LED-3000L-DIM10-MVOLT-40K-85

TEST NO.: **EL041622**

INPUT WATTS: **36** LUMENS: **3000** CRI: **85** EFFICACY: **78** CCT: **4000K**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-30°	787.79	26.30	26.30
0-40°	1294.69	43.20	43.20
0-60°	2316.13	77.30	77.20
0-90°	2978.55	99.40	99.30
0-180°	3000.26	100.10	100.00

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	2964	3273	3614
55°	2623	3237	3740
65°	2139	3211	3603
75°	1640	2705	3507
85°	954	1745	2234

Candela Tabulation

	0	45	90
0	1014.315	1014.315	1014.315
5	1012.210	1009.890	1009.750
15	967.990	971.670	978.760
25	882.570	898.420	921.910
35	762.300	798.070	842.320
45	612.220	676.120	746.460
55	439.600	542.450	626.740
65	264.140	396.470	444.820
75	124.000	204.550	265.170
85	24.290	44.420	56.890
90	1.380	1.710	1.870

Spacing Criteria

0-180	: 1.22
90-270	: 1.30
Diagonal	: 1.40

EFFICACY: 78 LM/W

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 20% = PF

RC	RW	80%				70%				50%				30%				10%				0%			
		70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%	30%	10%	0%			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	99							
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83							
2	98	90	83	77	96	88	82	76	84	79	74	81	76	72	78	74	71	68							
3	90	79	71	64	87	77	69	63	74	67	62	71	66	61	68	64	60	57							
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49							
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42							
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	43	39	37							
7	64	51	42	35	62	50	41	35	48	41	35	47	40	35	45	39	34	32							
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	41	35	31	29							
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26							
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23							

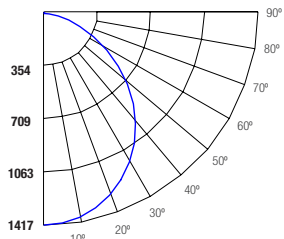
RC - Ceiling Cavity Reflectance RW - Wall Reflectance

24-OBLD-LED-4000L-DIM10-MVOLT-40K-85

TEST NO.: **EL041624**

INPUT WATTS: **50** LUMENS: **4162** CRI: **85** EFFICACY: **79** CCT: **4000K**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-30°	1098.73	26.40	26.40
0-40°	1801.08	43.30	43.30
0-60°	3217.65	77.40	77.30
0-90°	4131.99	99.40	99.30
0-180°	4162.25	100.10	100.00

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	4129	4509	4968
55°	3653	4427	5105
65°	2978	4321	4892
75°	2285	3634	4739
85°	1359	2341	3082

Candela Tabulation

	0	45	90
0	1417.473	1417.473	1417.473
5	1410.040	1408.270	1408.950
15	1348.490	1351.350	1361.720
25	1229.860	1247.070	1277.120
35	1062.350	1103.720	1162.710
45	853.020	931.380	1026.160
55	612.190	741.810	855.340
65	367.630	533.480	603.940
75	172.740	274.780	358.340
85	34.600	59.610	78.470
90	1.920	2.420	2.620

Spacing Criteria

0-180	: 1.22
90-270	: 1.30
Diagonal	: 1.38

EFFICACY: 79 LM/W

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 20% = PF

RC	RW	80%				70%				50%				30%				10%				0%			
		70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%	30%	10%	0%			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	99							
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83							
2	98	90	83	77	96	88	82	76	84	79	74	81	76	73	78	74	71	68							
3	90	79	71	64	87	77	69	63	74	67	62	71	66	61	68	64	60	57							
4	82	70	61	54	80	68	60	54	66	58	53	63	57	52	61	56	51	49							
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42							
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37							
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	34	32							
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	41	35	31	29							
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26							
10	52	39	31	26	51	39	31	26	37	30	26	36	30	25	36	30	25	23							

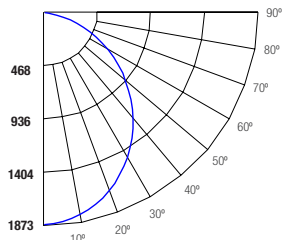
RC - Ceiling Cavity Reflectance RW - Wall Reflectance

24-OBLD-LED-5000L-DIM10-MVOLT-40K-85

TEST NO.: **EL-101526**

INPUT WATTS: **66** LUMENS: **5238** CRI: **85** EFFICACY: **75** CCT: **4000K**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-30°	1440.57	27.50	27.50
0-40°	2350.63	44.90	44.90
0-60°	4136.76	79.00	79.00
0-90°	5238.36	100.00	100.00
0-180°	5238.36	100.00	100.00

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	1981	2256	2554
55°	1698	2172	2532
65°	1293	1953	2335
75°	918	1569	2239
85°	499	672	1021

Candela Tabulation

	0	45	90
0	1871.688	1871.688	1871.688
5	1855.150	1856.240	1863.620
15	1747.460	1769.150	1804.380
25	1566.640	1620.460	1694.640
35	1328.420	1422.210	1537.920
45	1042.060	1186.550	1343.450
55	724.400	926.970	1080.280
65	406.630	613.950	734.040
75	176.820	302.060	431.010
85	32.380	43.540	66.180
90	5.800	4.090	3.220

Spacing Criteria

0-180	: 1.18
90-270	: 1.30
Diagonal	: 1.36

EFFICACY: 75 LM/W

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 20% = PF

RC	RW	80%				70%				50%				30%				10%				0%			
		70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%	30%	10%	0%			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100							
1	109	104	100	96	106	102	98	94	97	94	91	94	91	88	90	88	86	84							
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73											

- 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 <small>by EnOcean</small>	LUTRON	enlighted	LEVITON®	OSRAM	PHILIPS <small>EasySense</small>	legrand®
CONTROL UNIT	<input type="checkbox"/> LEDRU LED Relay Zone Controller 0-10V ¹	<input type="checkbox"/> FCJS-0-10 Lutron Vive 0-10V Individual Control Models ¹⁴	<input type="checkbox"/> CU-4E-FMH Fixture Mount Control Unit ¹⁵	<input type="checkbox"/> ZL027 -NOW Intellect Power Control Module ¹⁶	<input type="checkbox"/> EN-WCM2-ZB-DR Wireless Control Module ¹⁷	<input type="checkbox"/> XITANIUM SR LED DRIVER The Philips Advance Xitanium SR LED driver ¹⁸	<input type="checkbox"/> LMFC-011 ON/OFF/0-10V dimming fixture controller ¹⁹
	<input type="checkbox"/> LEDDU LED Zone Controller 0-10V ¹	<input type="checkbox"/> FCJS-ECO Lutron Vive Eco-system Individual Control Models ¹⁴		<input type="checkbox"/> ZL027 -DLE Intellect Power Control Module ¹⁶	<input type="checkbox"/> EN- ALC-ZB-BK-DR Wireless Area Lighting Control Module ¹⁷		<input type="checkbox"/> FS-PP-V2 FS-PP Fixture Integrated Sensor Power Pack ¹⁹
INTEGRAT OCCUPANCY& DAYLIGHT SENSOR	N/A	<input type="checkbox"/> DFCSJ-OEM-OCC Clear Connect (RF) and Occupancy/ Daylight Sensing ²	<input type="checkbox"/> SU-5E-IoT IoT Node Micro Sensor <input type="checkbox"/> SU-5E-CL Connected Micro Sensor <input type="checkbox"/> SU-5E-IL Independent Micro Sensor <input type="checkbox"/> SU-5S-H(IoT/CL/IL) Surface Mount Sensor (Must be Specified with CU- 4E-FMH Control Unit)²	<input type="checkbox"/> ZL00J -TOW Intellect Intelligent Fixture Control System ²	<input type="checkbox"/> EN-CLM-PIR-DD-ZB SensiLUM™ Wireless Integrated Sensor	<input type="checkbox"/> SNS200 SNS200 for grouping ²	<input type="checkbox"/> FD-301 Fixture integrated Daylight Dimming Sensor ²
				<input type="checkbox"/> ZL00J-DOW Intellect Intelligent Fixture Control System ²	<input type="checkbox"/> ZBHA- CLM-DIM-ENC Connected Lighting Module DIM ²	<input type="checkbox"/> SNS300 SNS300 for networks ²	<input type="checkbox"/> FS-205 Fixture integrated passive infrared occupancy sensor ²
*WIRELESS OCCUPANCY SENSOR	<input type="checkbox"/> E0SCU-W-E0 Occupancy Sensor - Ceiling Mounted ³	<input type="checkbox"/> LRF2-OCR2B-P-WH Ceiling mount 360° ,occupancy/vacancy sensor ³	N/A	N/A	<input type="checkbox"/> EN-SCPPH- 1500-ZB Wireless Passive Infrared Occupancy and Photo Sensors ³	N/A	<input type="checkbox"/> LMDC-100 Dual technology PIR Ceiling Mount Occupancy Sensor ³
*WIRELESS DAYLIGHT SENSOR	<input type="checkbox"/> ELLSU-W-E0 Light Level Sensor - Ceiling Mounted ³	<input type="checkbox"/> LRF2-DCRB-WH Ceiling-mount daylight sensor ³	N/A	N/A	<input type="checkbox"/> EN-SCPPH- 1500-ZB Wireless Passive Infrared Occupancy and Photo Sensors ³	N/A	<input type="checkbox"/> LMLS-400 Single zone switching and dimming digital photosensor ³
*WIRELESS OCCUPANCY & DAYLIGHT SENSOR	N/A	N/A	<input type="checkbox"/> SU-5E-IoT IoT Node Micro Sensor <input type="checkbox"/> SU-5E-CL Connected Micro Sensor <input type="checkbox"/> SU-5E-IL Independent Micro Sensor <input type="checkbox"/> SU-5S-H(IoT/CL/IL) Surface Mount Sensor (Must be specified with CU- 4E-FMH Control Unit)³	<input type="checkbox"/> ZL00J -TOW Intellect Intelligent Fixture Control System <input type="checkbox"/> ZL00J-DOW Intellect Intelligent Fixture Control System (Must be specified with ZL027-NOW and ZL00J- DOW Control unit)³	<input type="checkbox"/> EN-CLM- PIR-DD-ZB SensiLUM™ Wireless Integrated Sensor <input type="checkbox"/> ZBHA- CLM-DIM-ENC Connected Lighting Module DIM (Must be specified with EN-WCM2-ZB-DR or EN- ALC-ZB-BK-DR Control Unit)³	<input type="checkbox"/> SNS200-CMP SNS-200 for Grouping ³	N/A
ACCESORIES	N/A	N/A	<input type="checkbox"/> TMC-SU-5E Tile Mount Carrier <input type="checkbox"/> CBL-5E-CU4-30N 30 inch Sensor cable for CU-4 and IoT Ready <input type="checkbox"/> CBL-5E-CU4-7F 7 Foot sensor cable for CU-4 and IoT Ready Driver	N/A	N/A	N/A	N/A
NOTES	N/A	4- Luminaire will be compatible with LUTRON LRF2-OCR2B-PWH Ceiling mount 360deg occupancy/ vacancy sensor & LRF2-DCRB-WH ceiling mount daylight sensor. Sensors must be orderd through Lutron	5- Luminaire will be compatible with ENLIGHTED SU-5E-IoT, SU-5E-CL, SU-5E-IL, SU-5S, Sensors	6- Luminaire will be compatible with LEVITON I ntellect APP & Keypad room controller	7- Luminaire will be compatible with EN-SCPPH-1500-ZB Wireless passive infrared occupancy and photo sensor	8- Luminaire will be compatible with philips field and wireless switch	9- Luminaire will be compatible with DLM Room control system LMPB-100. . Sensors must be orderd through Legrand.