

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
4000	4042	60 W
3000	3059	44 W
2000	1963	28 W

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

**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	2000, 3000, 4000
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



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

22	OBLD	LED								
FIXTURE SIZE	SERIES	TYPE	LUMENS	DIMMING	VOLTAGE	CCT	CRI	EMERGENCY	OTHER OPTIONS	
22 - 2' X2'	OBLD - LED	LED	2000L - 2000 lumens 3000L - 3000 lumens 4000L - 4000 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	22FK - 2'x2' 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 - Low Voltage Daylight FD-301 Dimming Photosensor - Digital Lighting Manager LMFC-011 - Low Voltage Pir Fixture - Integrated Occupancy Sensor FS-205	

\*Consult factory for details

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

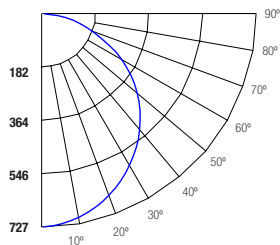
\*FD-301 & FS-205 require FS-PPV2- Power Pack

**22-OBLD-LED-2000L-DIM10-MVOLT-40K-85**

TEST NO.: **EL-101521**

INPUT WATTS: **28.3** LUMENS: **1963** CRI: **85** EFFICACY: **69** CCT: **4000K**

**Candle Power Distribution (Candelas)**



**Zonal Lumens Summary**

Zone	Lumens	%Lamp	%Fixt
0-30°	555.29	N.A.	28.30
0-40°	903.06	N.A.	46.00
0-60°	1573.49	N.A.	80.20
0-90°	1962.87	N.A.	100.00
0-180°	1962.87	N.A.	100.00

**Luminance Data (cd/sq.m)**

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	1479	1769	2056
55°	1240	1676	2074
65°	936	1510	1978
75°	652	1170	1891
85°	336	590	1097

**Candela Tabulation**

	0	45	90
0	725.991	725.991	725.991
5	719.120	723.610	727.130
15	675.370	694.040	711.850
25	602.170	637.750	674.440
35	507.380	560.510	616.030
45	388.970	465.240	540.720
55	264.570	357.560	442.380
65	147.210	237.370	310.970
75	62.780	112.600	182.040
85	10.880	19.120	35.550
90	3.110	2.510	1.280

**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%	50%	30%	10%	0%			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	100	100	100		
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84	86	84	84	84		
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70	76	72	70	70		
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59	66	62	59	59		
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	63	57	53	51	58	53	51	51		
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44	51	46	44	44		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39	45	41	39	39		
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34	41	36	34	34		
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30	37	32	30	30		
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27	34	29	27	27		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25	31	27	25	25		

**Spacing Criteria**

0-180 : **1.16**  
90-270 : **1.34**  
Diagonal : **1.36**

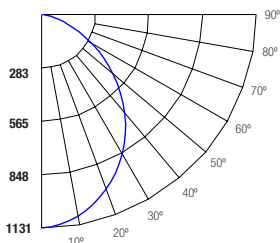
**EFFICACY: 69 LM/W**

**22-OBLD-LED-3000L-DIM10-MVOLT-40K-85**

TEST NO.: **EL-101518**

INPUT WATTS: **44.4** LUMENS: **3059** CRI: **85** EFFICACY: **69** CCT: **4000K**

**Candle Power Distribution (Candelas)**



**Zonal Lumens Summary**

Zone	Lumens	%Lamp	%Fixt
0-30°	863.55	N.A.	28.20
0-40°	1406.02	N.A.	46.00
0-60°	2452.73	N.A.	80.20
0-90°	3059.45	N.A.	100.00
0-180°	3059.45	N.A.	100.00

**Luminance Data (cd/sq.m)**

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	2256	2624	3037
55°	1886	2444	3034
65°	1391	2194	2887
75°	947	1635	2727
85°	623	971	1980

**Candela Tabulation**

	0	45	90
0	1128.785	1128.785	1128.785
5	1114.000	1117.680	1123.010
15	1040.680	1059.530	1087.100
25	924.380	962.490	1017.820
35	773.390	835.390	920.750
45	593.390	690.120	798.820
55	402.380	521.440	647.390
65	218.670	344.950	453.830
75	91.180	157.440	262.490
85	20.200	31.490	64.200
90	4.500	3.360	5.630

**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%	50%	30%	10%	0%			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	100	100	100		
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84	86	84	84	84		
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70	76	72	70	70		
3	91	80	72	66	89	78	71	65	76	69	64	73	67	63	70	66	62	59	66	62	59	59		
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	63	57	53	51	58	53	51	51		
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44	51	46	44	44		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39	45	41	39	39		
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34	41	36	34	34		
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30	37	32	30	30		
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27	34	29	27	27		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25	31	27	25	25		

**Spacing Criteria**

0-180 : **1.14**  
90-270 : **1.3**  
Diagonal : **1.36**

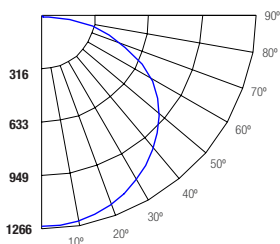
**EFFICACY: 69 LM/W**

**22-OBLD-LED-4000L-DIM10-MVOLT-40K-85**

TEST NO.: **EL071769**

INPUT WATTS: **60.4** LUMENS: **4042** CRI: **85** EFFICACY: **67** CCT: **4000K**

**Candle Power Distribution (Candelas)**



**Zonal Lumens Summary**

Zone	Lumens	%Lamp	%Fixt
0-30°	989.99	24.50	24.50
0-40°	1634.66	40.50	40.40
0-60°	2980.08	73.80	73.70
0-90°	3995.83	99.00	98.90
0-180°	4041.99	100.10	100.00

**Luminance Data (cd/sq.m)**

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	3768	3369	3005
55°	4019	3401	2773
65°	4268	3467	2413
75°	4390	3431	1972
85°	5160	3774	1948

**Candela Tabulation**

	0	45	90
0	1265.957	1265.957	1265.957
5	1263.580	1260.720	1258.810
15	1235.330	1216.900	1202.160
25	1178.620	1136.410	1100.750
35	1096.710	1024.860	961.640
45	991.150	886.130	790.400
55	857.500	725.540	591.670
65	670.950	545.050	379.250
75	422.630	330.260	189.860
85	167.280	122.340	63.150
90	39.660	36.630	23.710

**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%	50%	30%	10%	0%			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	101	99	99	99	99		
1	108	102	98	93	105	100	96	92	95	92	89	91	88	86	87	85	83	81	87	85	83	81		
2	97	88	81	75	94	86	80	74	83	77	72	79	74	70	76	72	68	66	72	68	66	66		
3	88	77	68	62	86	75	67	61	72	65	60	69	63	59	67	62	57	55	63	57	55	55		
4	81	68	59	52	78	67	58	51	64	56	50	61	55	50	59	53	49	47	55	49	47			

- 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	<input type="checkbox"/> LEDRU LED Relay Zone Controller 0-10V <sup>1</sup>	<input type="checkbox"/> FCJS-0-10 Lutron Vive 0-10V Individual Control Models <sup>14</sup>	<input type="checkbox"/> CU-4E-FMH Fixture Mount Control Unit <sup>15</sup>	<input type="checkbox"/> ZL027 –NOW Intellect Power Control Module <sup>16</sup>	<input type="checkbox"/> EN-WCM2-ZB-DR Wireless Control Module <sup>17</sup>	<input type="checkbox"/> XITANIUM SR LED DRIVER The Philips Advance Xitanium SR LED driver <sup>18</sup>	<input type="checkbox"/> LMFC-011 ON/OFF/0-10V dimming fixture controller <sup>19</sup>
	<input type="checkbox"/> LEDDU LED Zone Controller 0-10V <sup>1</sup>	<input type="checkbox"/> FCJS-ECO Lutron Vive Eco-system Individual Control Models <sup>14</sup>		<input type="checkbox"/> ZL027 –DLE Intellect Power Control Module <sup>16</sup>	<input type="checkbox"/> EN- ALC-ZB-BK-DR Wireless Area Lighting Control Module <sup>17</sup>		<input type="checkbox"/> FS-PP-V2 FS-PP Fixture Integrated Sensor Power Pack <sup>19</sup>
INTEGRAT OCCUPANCY& DAYLIGHT SENSOR	N/A	<input type="checkbox"/> DFCSJ-OEM-OCC Clear Connect (RF) and Occupancy/ Daylight Sensing <sup>2</sup>	<input type="checkbox"/> SU-5E-IoT IoT Node Micro Sensor	<input type="checkbox"/> ZL00J -TOW Intellect Intelligent Fixture Control System <sup>2</sup>	<input type="checkbox"/> EN-CLM-PIR-DD-ZB SensiLUM™ Wireless Integrated Sensor	<input type="checkbox"/> SNS200 SNS200 for grouping <sup>2</sup>	<input type="checkbox"/> FD-301 Fixture integrated Daylight Dimming Sensor <sup>2</sup>
			<input type="checkbox"/> SU-5E-CL Connected Micro Sensor	<input type="checkbox"/> ZL00J-DOW Intellect Intelligent Fixture Control System <sup>2</sup>	<input type="checkbox"/> ZBHA- CLM-DIM-ENC Connected Lighting Module DIM <sup>2</sup>	<input type="checkbox"/> SNS300 SNS300 for networks <sup>2</sup>	<input type="checkbox"/> FS-205 Fixture integrated passive infrared occupancy sensor <sup>2</sup>
*WIRELESS OCCUPANCY SENSOR	<input type="checkbox"/> EOSCU-W-EO Occupancy Sensor - Ceiling Mounted <sup>3</sup>	<input type="checkbox"/> LRF2-OCR2B-P-WH Ceiling mount360° ,occupancy/vacancy sensor <sup>3</sup>	N/A	N/A	<input type="checkbox"/> EN-SCPPH- 1500-ZB Wireless Passive Infrared Occupancy and Photo Sensors <sup>3</sup>	N/A	<input type="checkbox"/> LMDC-100 Dual technology PIR Ceiling Mount Occupancy Sensor <sup>3</sup>
*WIRELESS DAYLIGHT SENSOR	<input type="checkbox"/> ELLSU-W-EO Light Level Sensor - Ceiling Mounted <sup>3</sup>	<input type="checkbox"/> LRF2-DCRB-WH Ceiling-mount daylight sensor <sup>3</sup>	N/A	N/A	<input type="checkbox"/> EN-SCPPH- 1500-ZB Wireless Passive Infrared Occupancy and Photo Sensors <sup>3</sup>	N/A	<input type="checkbox"/> LMLS-400 Single zone switching and dimming digital photosensor <sup>3</sup>
*WIRELESS OCCUPANCY & DAYLIGHT SENSOR	N/A	N/A	<input type="checkbox"/> SU-5E-IoT IoT Node Micro Sensor	<input type="checkbox"/> ZL00J -TOW Intellect Intelligent Fixture Control System	<input type="checkbox"/> EN-CLM- PIR-DD-ZB SensiLUM™ Wireless Integrated Sensor	<input type="checkbox"/> SNS200-CMP SNS-200 for Grouping <sup>3</sup>	N/A
			<input type="checkbox"/> SU-5E-CL Connected Micro Sensor	<input type="checkbox"/> ZL00J-DOW Intellect Intelligent Fixture Control System	<input type="checkbox"/> ZBHA- CLM-DIM-ENC Connected Lighting Module DIM		
			<input type="checkbox"/> SU-5E-IL Independent Micro Sensor	<b>(Must be specified with CU-4E-FMH Control Unit)<sup>3</sup></b>	<b>(Must be specified with EN-WCM2-ZB-DR or EN- ALC-ZB-BK-DR Control Unit)<sup>3</sup></b>		
			<input type="checkbox"/> SU-5S-H(IoT/CL/IL) Surface Mount Sensor				
ACCESORIES	N/A	N/A	<input type="checkbox"/> TMC-SU-5E Tile Mount Carrier	N/A	N/A	N/A	N/A
			<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				
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-5SH, 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.