

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
6000	5991	60 W
5000	5047	49 W
4000	4272	38 W
3000	3121	28 W

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

FEATURES

The Edge is an architectural edge-lit troffer delivering indirect, volumetric illumination. A wide distribution fills the entire room with dark spot-free illumination. An exceptional spacing criteria requires less fixtures needed to achieve recommended footcandles. A fully luminous, architectural look makes the Edge ideal for offices, educational, healthcare, and retail applications.

LUMENS	3000, 4000, 5000, 6000
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, 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 150,000 Hours
PHOTOMETRIC TESTS	In Accordance with IES LM79-08, LM80 and TM-30, TM-21



Patents Pending

OPTICAL SYSTEM

A multi-dimensional optical system includes a center diffuser, light guide plate, and reflector, combining to produce indirect, even, glare-free illumination. When paired with edge-lit LEDs, the light guide plate directs light from the edges and distributes it evenly over the face of the lens. A reflector on both sides of the lens prevents light leaks from the back, reflecting light source to the front. Center diffuser provides a soft glow of illumination and eliminates surface shadows. A horizontal light source delivers illumination closer to the ceiling line and zero pixilation from both sides of the luminaire. Flat lens allows for luminaire to be extremely shallow in depth.

CONSTRUCTION

Heavy-duty 20-gauge cold rolled steel body, post-painted with a 93% reflective white coat. Shallow depth of 3-5/8" ideal for shallow plenums. All corners interlock to remove sharp edges for safe handling. Luminaire is supplied with multiple wiring entrances for easy daisy chaining, to add power packs, whips, or other accessories in the field, or for continuous row mounting.

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.

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-EDGE-LED-4000L-DIM10-MVOLT-30K-85**

24	EDGE	LED								
FIXTURE SIZE	SERIES	TYPE	LUMENS	DIMMING	VOLTAGE	CCT	CRI	EMERGENCY	OTHER OPTIONS	
24 - 2' X4'	EDGE - LED Volumetric Troffer	LED	3000L- 3000 lumens 4000L- 4000 lumens 5000L- 5000 lumens 6000L- 6000 lumens	DIM10 - 0-10V Dimming DIMST - Step Dimming LUTH - Lutron HiLume LUT2W - Lutron 2Wire ELDO10.1 - EldoLED 0-10V DALI.1 - EldoLED DALI ELDODMX.1 - 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	

*Consult factory for details

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

INPUT WATTS: **28.2**

LUMENS: **3121**

CRI: **85**

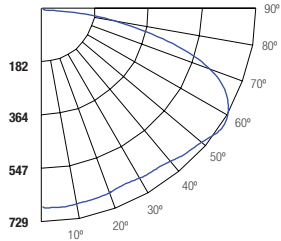
EFFICACY: **111**

CCT: **4000K**

TEST NO.: **EL07181981**

SPACING CRITERIA: **1.66**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	250.23	8.00	8.00
0-30	548.21	17.60	17.60
0-40	942.91	30.20	30.20
0-60	1966.94	63.00	63.00
0-80	2935.77	94.10	94.10
0-90	3093.82	99.10	99.10

Luminance (Average candela/M²)

Angle in Degrees	Average		
	0°	45°	90°
45	1087	1177	1307
55	1226	1412	1695
65	1438	1703	2193
75	1527	1885	2451
85	1732	1493	1951

Lumens Per Zone

Zone	Lumens
0-10	63.70
10-20	186.53
20-30	297.98
30-40	394.71
40-50	479.76
50-60	544.26
60-70	549.83
70-80	419.00
80-90	158.05

Candela Tabulation

Q	
0	667.691
5	668.600
15	657.500
25	635.520
35	604.420
45	571.830
55	523.150
65	452.120
75	294.010
85	112.280
90	23.230

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	101	101	101	99					
	1	105	99	94	89	102	97	92	87	92	88	84	88	85	82	84	81	79	77					
	2	94	84	75	68	91	82	74	67	78	71	66	74	69	64	71	66	62	60					
	3	84	72	62	54	81	70	61	54	67	59	53	64	57	51	61	55	50	48					
	4	76	62	52	44	74	61	51	44	58	50	43	55	48	42	53	47	42	39					
	5	69	55	45	37	67	54	44	37	51	43	36	47	42	36	47	40	35	33					
	6	64	49	39	32	62	48	38	31	46	37	31	44	36	31	42	35	30	28					
	7	59	44	34	27	57	43	34	27	41	33	27	40	32	27	38	31	26	24					
	8	54	40	30	24	53	39	30	24	37	29	24	36	29	23	35	28	23	21					
	9	51	36	27	21	49	36	27	21	34	26	21	33	26	21	32	25	21	19					
	10	47	33	25	19	46	33	24	19	32	24	19	31	24	19	30	23	19	17					

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

Cone of Light

Distance to Plane	Initial Footcandle at Nadir	Beam Vert. Spread	Beam Horiz. Spread
2	167 fc	8.6 ft	21.2 ft
4	41.7 fc	17.2 ft	42.5 ft
6	18.5 fc	25.8 ft	63.7 ft
8	10.4 fc	34.3 ft	84.9 ft
10	6.68 fc	42.9 ft	106.2 ft
12	4.64 fc	51.5 ft	127.4 ft

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

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

INPUT WATTS: **37.8**

LUMENS: **4072**

CRI: **85**

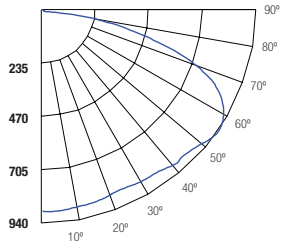
EFFICACY: **108**

CCT: **4000K**

TEST NO.: **EL07181980**

SPACING CRITERIA: **1.66**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	329.07	8.10	8.10
0-30	720.98	17.70	17.70
0-40	1241.31	30.50	30.50
0-60	2585.79	63.50	63.50
0-80	3829.81	94.10	94.10
0-90	4030.55	99.00	99.00

Luminance (Average candela/M²)

Angle in Degrees	Average		
	0°	45°	90°
45	1437	1545	1695
55	1621	1841	2200
65	1891	2146	2753
75	1986	2154	2750
85	2212	1044	1282

Lumens Per Zone

Zone	Lumens
0-10	83.73
10-20	245.34
20-30	391.91
30-40	520.32
40-50	630.76
50-60	713.72
60-70	712.20
70-80	531.82
80-90	200.74

Candela Tabulation

Q	
0	880.221
5	884.660
15	869.840
25	840.240
35	799.600
45	755.910
55	691.480
65	594.460
75	382.460
85	143.430
90	26.820

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	101	101	101	99					
	1	105	99	94	89	102	97	92	88	92	88	85	88	85	82	84	82	79	77					
	2	94	84	76	69	91	82	74	68	78	72	66	74	69	64	71	67	63	60					
	3	84	72	62	55	82	70	61	54	67	59	53	64	57	52	61	55	51	48					
	4	76	63	52	45	74	61	52	44	58	50	43	56	48	43	53	47	42	39					
	5	70	55	45	37	67	54	44	37	51	43	36	49	42	36	47	41	35	33					
	6	64	49	39	32	62	48	38	32	46	37	31	44	37	31	42	36	30	28					
	7	59	44	34	28	57	43	34	27	41	33	27	40	32	27	38	32	26	24					
	8	55	40	31	24	53	39	30	24	38	30	24	36	29	24	35	28	23	21					
	9	51	36	27	21	49	36	27	21	34	27	21	33	26	21	32	26	21	19					
	10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	23	19	17					

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

Cone of Light

Distance to Plane	Initial Footcandle at Nadir	Beam Vert. Spread	Beam Horiz. Spread
2	220 fc	9.9 ft	16.7 ft
4	55 fc	19.9 ft	33.5 ft
6	24.5 fc	29.8 ft	50.2 ft
8	13.8 fc	39.7 ft	67 ft
10	8.8 fc	49.6 ft	83.7 ft
12	6.11 fc	59.6 ft	100.4 ft

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

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

INPUT WATTS: **49.6**

LUMENS: **5047**

CRI: **85**

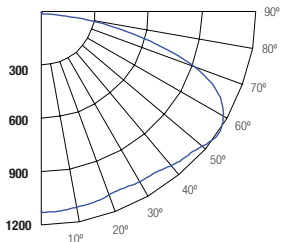
EFFICACY: **102**

CCT: **4000K**

TEST NO.: **EL07181979**

SPACING CRITERIA: **1.66**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	412.95	8.20	8.20
0-30	904.56	17.90	17.90
0-40	1557.55	30.90	30.90
0-60	3252.5	64.40	64.40
0-80	4789.52	94.90	94.90
0-90	5002.1	99.10	99.10

Luminance (Average candela/M²)

Angle in Degrees	Average		
	0°	45°	90°
45	1806	1941	2162
55	2038	2315	2808
65	2375	2691	3525
75	2495	2669	3548
85	2763	1203	1739

Lumens Per Zone

Zone	Lumens
0-10	105.17
10-20	307.78
20-30	491.61
30-40	652.98
40-50	794.79
50-60	900.17
60-70	891.87
70-80	645.15
80-90	212.58

Candela Tabulation

Q	
0	1104.988
5	1110.980
15	1092.140
25	1055.110
35	1004.320
45	949.830
55	869.630
65	746.550
75	480.460
85	179.120
90	33.070

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

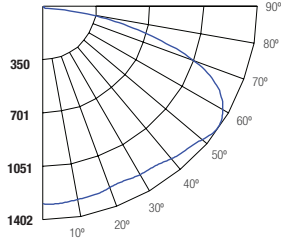
RC	80%				70%				50%				30%				10%				0%			
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%		
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99					
	1	106	100	95	90	103	97	93	88	93	89	85	89	85	82	85	82	80	77					
	2	94	84	76	69																			

24-EDGE-LED-6000L-DIM10-MVOLT-40K-85

TEST NO.: **EL07181978**

INPUT WATTS: **59.8** LUMENS: **5991** CRI: **85** EFFICACY: **100** CCT: **4000K** SPACING CRITERIA: **1.66**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	483.49	8.10	8.10
0-30	1059.41	17.70	17.70
0-40	1823.86	30.40	30.40
0-60	3805.39	63.50	63.50
0-80	5642.5	94.20	94.20
0-90	5932.13	99.00	99.00

Luminance (Average candela/M²)

Angle in Degrees	Average		
	0°	45°	90°
45	2119	2271	2531
55	2386	2691	3283
65	2789	3130	4096
75	2928	3100	4068
85	3313	1406	1690

Lumens Per Zone

Zone	Lumens
0-10	123.05
10-20	360.44
20-30	575.92
30-40	764.45
40-50	929.37
50-60	1052.16
60-70	1051.47
70-80	785.64
80-90	289.63

Candela Tabulation

0	
0	1293.262
5	1304.020
15	1282.040
25	1238.590
35	1177.980
45	1114.590
55	1018.010
65	876.900
75	563.820
85	214.830
90	36.460

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

Cone of Light			
2	323 fc	8.7 ft	18.1 ft
4	80.8 fc	17.3 ft	36.1 ft
6	35.9 fc	26 ft	54.2 ft
8	20.2 fc	34.6 ft	72.2 ft
10	12.9 fc	43.3 ft	90.3 ft
12	8.98 fc	51.9 ft	108.3 ft
Distance to Plane	Initial Footcandle at Nadir	Beam Vert. Spread	Beam Horiz. Spread

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

ROOM CAVITY RATIO	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%	0%					
0	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99						
1	1	106	99	94	89	103	97	92	88	92	88	85	88	85	82	84	82	79	77						
2	2	94	84	76	69	91	82	74	68	78	72	66	74	69	64	71	67	63	60						
3	3	84	72	62	55	82	70	61	54	67	59	53	64	57	52	61	55	51	48						
4	4	76	63	52	45	74	61	52	44	58	50	43	56	48	43	53	47	42	39						
5	5	70	55	45	37	67	54	44	37	51	43	36	49	42	36	47	41	35	33						
6	6	64	49	39	32	62	48	38	32	46	37	31	44	36	31	42	36	30	28						
7	7	59	44	34	28	57	43	34	27	41	33	27	40	32	27	38	32	26	24						
8	8	55	40	31	24	53	39	30	24	38	30	24	36	29	24	35	28	23	21						
9	9	51	36	27	21	49	36	27	21	34	27	21	33	26	21	32	26	21	19						
10	10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	23	19	17						

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance