

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
6000	6370	72 W
5000	5350	58 W
4000	4573	49 W

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

FEATURES

The one-piece, fully-illuminated lens provides optimal lumen output and superior performance. With shadow-free illumination across the entire surface, it delivers consistent visual comfort that is unmatched. The angled backlit lens creates volumetric, uniform illumination, delivering a high angled distribution. The high efficiency and sustainability of the luminaire makes it the ideal source for corporate offices, educational, healthcare, commercial, and retail applications.

LUMENS	4000, 5000, 6000
CCT & DYNAMIC PLATFORMS	30K, 35K, 40K, 50K, Tunable White, Dims to Warm, RGB + White
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, 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 83,000 Hours
PHOTOMETRIC TESTS	In Accordance with IES LM79-08, LM80 and TM-30, TM-21



MAINTENANCE

The door frame assembly is hinged, 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

The LED light engine is secured to the body of the luminaire, with the body acting as a heat sink. A proprietary design of the lens results in zero pixilation, regardless of the viewing angle, with LEDs placed to promote a uniform appearance. The result is even illumination across the space, from luminaire to luminaire.

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)



LED DYNAMIC PLATFORM OPTIONS

Tunable White with Smart White Technology utilizing the Lumenetix Platform allows you to color tune the luminaire via various controls. Create the perfect environment for the desired use of the space, while maintaining a CRI of 90+ across the tunable range of 8000 to 1650K. (Click here for more details)



Dims to Warm with Smart Dimming 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. (Click here for more details)



RGB+White with Smart Hue Technology provides full color mixing of RGB and white colors. Utilizing the Lumenetix Platform allows you to choose from unlimited RGB color options, via various controls. Ideal for Circadian Rhythm applications or to create the perfect human centric environment. (Click here for more details)

LISTINGS

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

Example: **24-LITE-LED-1-4000L-DIM10-MVOLT-30K-85**

FIXTURE SIZE	SERIES	TYPE	LUMENS	DIMMING	VOLTAGE	CCT	CRI	EMERGENCY	OTHER OPTIONS
24 - 2' X 4'	LITE - Fully Illuminated LED Troffer	LED-1	4000L - 4000 lumens 5000L - 5000 lumens 6000L - 6000 lumens	DIM10 - 0-10V Dimming DIMST - Step Dimming LUTH - Lutron HiLume 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 BFB - Internal Fast Blow Fuse SBF - Internal Slow Blow Fuse RIS - Radio Interference Suppressor USA - Made in America Compliance

*Consult factory for details

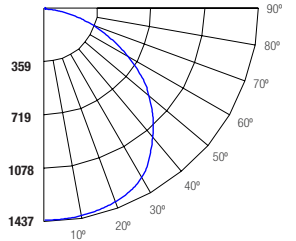
LUT2W are available in 120V only LUT2W up to 4000L
LUTH, ELDO10-.1, ELDODALI-.1, and ELDODMX-.1 are available in 120V and 277V
-Reference last page for Control Options

24-LITE-LED-1-4000L-DIM10-MVOLT-40K-85

TEST NO.: **EL10081947**

INPUT WATTS: **49.2** LUMENS: **4573** CRI: **85** EFFICACY: **93** CCT: **4000K** SPACING CRITERIA: **1.46**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	538.43	11.80	11.80
0-30	1176.48	25.70	25.70
0-40	1973.43	43.20	43.20
0-60	3564.17	77.90	77.90
0-80	4443.13	97.20	97.20
0-90	4534.07	99.10	99.10

Luminance (Average candela/M²)

Angle in Degrees	Average		
	0°	45°	90°
45	1935	2024	2175
55	1776	1897	2069
65	1581	1632	2019
75	1294	1432	1860
85	840	952	1596

Lumens Per Zone

Zone	Lumens
0-10	136.60
10-20	401.83
20-30	638.05
30-40	796.95
40-50	837.53
50-60	753.22
60-70	560.24
70-80	318.71
80-90	90.95

Candela Tabulation

0	
0	1433.972
5	1432.300
15	1410.460
25	1362.780
35	1234.090
45	1017.930
55	757.690
65	497.020
75	249.150
85	54.480
90	3.430

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

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%	50%	30%	10%	0%		
0	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99	99	99	99	99		
1	1	108	104	99	95	106	101	97	94	97	93	91	93	90	88	89	87	85	83	83	83	83	83		
2	2	98	90	83	77	96	88	82	76	84	79	74	81	76	73	78	74	71	69	69	69	69	69		
3	3	90	79	71	64	87	77	70	63	74	67	62	71	66	61	69	64	60	57	57	57	57	57		
4	4	82	70	61	54	79	68	60	54	66	58	53	63	57	52	61	56	51	49	49	49	49	49		
5	5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42	42	42	42	42		
6	6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	49	43	39	37	37	37	37	37		
7	7	64	50	42	35	62	50	41	35	48	40	35	46	40	35	45	39	34	32	32	32	32	32		
8	8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	31	29	29	29	29	29		
9	9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	27	26	26	26	26	26		
10	10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23	23	23	23	23		

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

Cone of Light

Beam Dia. (ft)	Beam Dia. (m)	Beam Dia. (ft)	Beam Dia. (m)
2	358	6.2	7.5
4	89.6	12.5	14.9
6	39.8	18.7	22.4
8	22.4	25	29.8
10	14.3	31.2	37.3
12	9.96	37.5	44.7

(FT.) Distance to Plane (FC.) Initial Footcandle at Nadir (FT.) Beam Vert. Spread (FT.) Beam Horiz. Spread

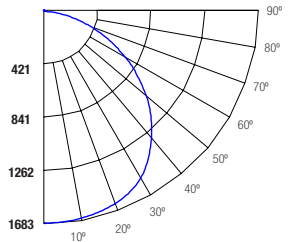
BEAM DIA. MEASURED AT 50% OF NADIR F.C.

24-LITE-LED-1-5000L-DIM10-MVOLT-40K-85

TEST NO.: **EL10081940**

INPUT WATTS: **58.5** LUMENS: **5350** CRI: **85** EFFICACY: **91** CCT: **4000K** SPACING CRITERIA: **1.46**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	630.66	11.80	11.80
0-30	1377.9	25.80	25.80
0-40	2311.28	43.20	43.20
0-60	4170.52	77.90	77.90
0-80	5198.51	97.20	97.20
0-90	5304.55	99.10	99.10

Luminance (Average candela/M²)

Angle in Degrees	Average		
	0°	45°	90°
45	2574	2383	2267
55	2454	2234	2079
65	2373	1931	1848
75	2126	1667	1522
85	1755	1135	992

Lumens Per Zone

Zone	Lumens
0-10	159.99
10-20	470.66
20-30	747.24
30-40	933.38
40-50	980.70
50-60	878.54
60-70	656.13
70-80	371.86
80-90	106.03

Candela Tabulation

0	
0	1679.368
5	1680.670
15	1677.130
25	1651.170
35	1550.460
45	1354.000
55	1046.960
65	746.050
75	409.430
85	113.770
90	13.350

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

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

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

Cone of Light

Beam Dia. (ft)	Beam Dia. (m)	Beam Dia. (ft)	Beam Dia. (m)
2	420	6.2	7.5
4	105	12.5	14.9
6	46.6	18.7	22.4
8	26.2	25	29.8
10	16.8	31.1	37.3
12	11.7	37.4	44.7

(FT.) Distance to Plane (FC.) Initial Footcandle at Nadir (FT.) Beam Vert. Spread (FT.) Beam Horiz. Spread

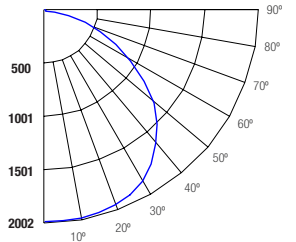
BEAM DIA. MEASURED AT 50% OF NADIR F.C.

24-LITE-LED-1-6000L-DIM10-MVOLT-40K-85

TEST NO.: **EL10081945**

INPUT WATTS: **72.2** LUMENS: **6378** CRI: **85** EFFICACY: **88** CCT: **4000K** SPACING CRITERIA: **1.46**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	750.88	11.80	11.80
0-30	1640.19	25.70	25.70
0-40	2751.21	43.20	43.10
0-60	4964.72	77.90	77.80
0-80	6190.93	97.20	97.10
0-90	6322.00	99.20	99.10

Luminance (Average candela/M²)

Angle in Degrees	Average		
	0°	45°	90°
45	3061	2844	2711
55	2922	2671	2497
65	2824	2318	2221
75	2523	1989	1838
85	2053	1378	1234

Lumens Per Zone

Zone	Lumens
0-10	190.50
10-20	560.38
20-30	889.31
30-40	1111.02
40-50	1167.99
50-60	1045.53
60-70	781.42
70-80	444.78
80-90	131.07

Candela Tabulation

0	
0	1999.705
5	2000.760
15	1996.670
25	1965.260
35	1845.580
45	1610.210
55	1246.720
65	887.800
75	485.820
85	133.110
90	14.970

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

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%	50%	30%	10%	0%		
0	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99	99	99	99	99		
1	1	108	104	99	95	106	101	97	94	97	93	91	93	90	88	89	87	85	83	83	83	83			