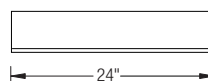
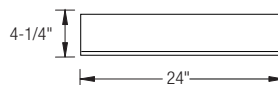


### 2' X 2' LED SURFACE MOUNT SPECIFICATION GRADE TROFFER



\* For list of qualified DLC fixture, please consult factory

**CALCULATED**  
**L70**  
LIFETIME  
**83,000 HRS**

**CALCULATED**  
**L80**  
LIFETIME  
**50,000 HRS**



**2400**  
LUMENS  
**20**  
WATT

**3400**  
LUMENS  
**28**  
WATT

**4000**  
LUMENS  
**33**  
WATT

**5000**  
LUMENS  
**43**  
WATT

**6000**  
LUMENS  
**51**  
WATT

According to  
DLC Test Results

According to  
DLC Test Results

According to  
DLC Test Results

According to  
DLC Test Results

The OSMT-LED is a high-quality yet economical surface-mounted troffer luminaire powered by LED lighting technology. An excellent highly efficient general illumination fixture ideal for office spaces, schools, hospitals, and many other indoor locations. Fixture is designed to flush mount onto drywall/hardpan ceilings.

#### PRODUCT FEATURES:

- Fixture is cold-welded to provide extra strength and durability during installation and downstream maintenance
- Four keyway slots/mounting holes on the back of the housing provides several mounting options
- Mitred door frame prevents light leaks, and minimizes dust from entering fixture
- Constructed of one-piece ribbed unutilized housing and corners that interlock, preventing damage to luminaire
- Frosted 0.100" thick #12 pattern acrylic lens, standard
- Housing and door frame interface provides a superior mechanical light seal
- Post-painted with a 93% reflective white coat to improve fixture efficacy
- Rated at 85+ CRI and available in multiple CCTs
- Life tested to ensure light output of L70 up to 83,000 hrs and L80 up to 50,000 hrs

- All sides and corners are turned in and hemmed, removing sharp edges for safe handling and installation
- Tested to LM-79 and LM-80 standards
- LED lighting technology offers the highest return on initial investment over the lifetime of the fixture
- Emergency battery back-up comes pre-installed on the fixture and emergency push button is installed on the fixture for easy access and aesthetics.
- Dimmable down to 1% with compatible dimming systems
- LED light engine is completely removable and upgradable
- Four corner tie points are standard for safety wire support when required and built-in earthquake clips standard
- Same-day shipping on most options (Consult factory)

**OPTICS** - The OSMT-LED uses a prismatic acrylic lens to scatter the light emitted from the LED chips into functional light. The LED offered in the OSMT-LED has the highest return on initial investment compared to other standard lighting solutions. Lens is attached to a door frame which is easily pivoted and removable without the use of tools.

**DURABILITY** - Our heavy-duty 20-gauge steel housing is engineered for maximum strength and extended life. Fixture is cold-welded to provide extra strength and corners interlock to prevent aesthetic damage to the fixture and. Sides and corners are uniformly turned in and hemmed to remove sharp edges for safe handling and easy installation. Fixture flush mounts onto drywall/hardpan ceilings.

**PERFORMANCE** - The OSMT-LED powered lighting technologies offer a higher return on investment than any other lighting technology. The light engines found in the OSMT-LED are rated at 85+ CRI and available in multiple CCTs: 3000K, 3500K, 4000K and 5000K. All LEDs and LED fixtures are rated and tested to LM-79 and LM-80 standards. The LEDs are also binned to a 3-step MacAdam ellipses to achieve consistent color from fixture to fixture.

**THERMAL MANAGEMENT** - LED light engines are attached directly to the housing which keeps the engines cool. Our advanced thermal management system allows the light output of the LED engines to be maintained at 70% of initial lumens at 83,000 hours of operation.

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

**MAINTENANCE** - LED engines and driver can be accessed through the bottom by removing hinged door frame and driver box cover. LED engines are removable and upgradable even after fixture installation. Fixture can be regularly and safely wiped down to ensure optimal fixture performance.

**DIMMING** - The OSMT-LED comes standard with **DIM10**, 0-10V dimming on either 120 or 277V. Dimmable down to 1% of initial lumens. Also available in Lutron dimming options. Consult factory for dimmer compatibility. **LUTH** - Lutron Hilume Dimming down to 1% compatible with 3 wire and EcoSystem Controls available on all fixtures up to 50 Watts. **LUT2W** - Lutron 2 Wire Dimming down to 1% compatible with 2 wire and Forward Phase Control Systems available on all fixtures up to 50 Watts. **LUTFTB** - Lutron Hilume Fade to Black Dimming down to 1% compatible with EcoSystem Controls available on all fixtures up to 75 Watts. **DIMST** - Step Dimming allows fixtures to be turned on at 100% or 50% is available for fixtures up to 50 Watts. **ELDO10.1** - EldoLED SoloDrive 0-10V. Dimming down to .1%. available on all fixtures up to 100 Watts. **ELDODALI** - EldoLED PowerDrive 0-10V. Dimming down to .1%. available on all fixtures up to 100 Watts. **ELDODMX** - EldoLED PowerDrive Dimming down to .1%. available on all fixtures up to 100 Watts. Please see EldoLED website for wiring diagrams and a list of compatible DMX and Dali control systems.

**OPTIONS** - Fixtures can be shipped pre-installed with daylight harvesting controls, occupancy sensors, and/or power pack. Available manufacturer options include Leviton, Wattstopper, Hubbell Automation, and others.

**QUALITY CONTROL** - Every fixture is turned on and rigorously tested by our QC Department before shipping.

**WARRANTY** - Limited 5 Year Warranty



#### Ordering Information: Example: 22-OSMT-LED-2400L-DIM10-MVOLT-30K-85

FIXTURE SIZE	SERIES	TYPE	LUMENS	DIMMING	VOLTAGE	CCT	CRI	EMERGENCY	OTHER OPTIONS
22 - 2' X 2'	OSMT-Oracle Surface Mount Troffer	LED	2400L (2400 lumens) 3400L (3300 lumens) 4000L (4500 lumens) 5000L (5400 lumens) 6000L (7050 lumens)	DIM10 - 0-10V Dimming DIMST - Step Dimming LUTH - Lutron Hilume LUT2W - Lutron 2Wire LUTFTB - Lutron Fade to Black ELDO10.1 - EldoLED 0-10V ELDODALI - EldoLED DALI ELDODMX - EldoLED DMX	MVOLT 347* * Consult factory for details	30K - (3000K) 35K - (3500K) 40K - (4000K) 50K - (5000K)	85	O-EMG-LED  <b>LENS</b> A12 - A12 A19 - A19 A-SFW - Smooth Frosted White	FBF - Internal Fast Blow Fuse SBF - Internal Slow-Blow Fuse RIS - Radio Interference Suppressor GDF - Gasketed Door Frame USA - Made in America Compliance

# PHOTOMETRY DATA

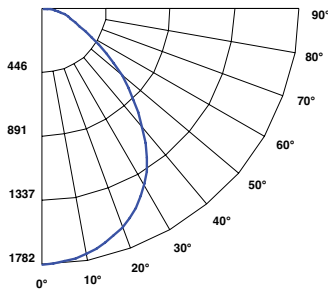
## 22-OSMT-LED-4000L-DIM10-120-40K

WATTAGE: 41.5

LUMENS: 3970

TOTAL LUMINAIRE EFFICACY: 96

### Candle Power Distribution (Candelas)



### Spacing Criteria

0-180 : 1.20  
90-270 : 1.16  
Diagonal : 1.26

**EFFICACY: 96 LM/W**

### Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-30°	1354.88	N.A.	34.10
0-40°	2161.48	N.A.	54.40
0-60°	3411.46	N.A.	85.90
0-90°	3970.02	N.A.	100.00
0-180°	3970.02	N.A.	100.00

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

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	3373	3368	3417
55°	2430	2610	2633
65°	1803	1774	2027
75°	1799	1514	1974
85°	1859	1624	2378

### Candela Tabulation

	0	45	90
0	1780.128	1780.128	1780.128
5	1767.030	1761.980	1765.260
15	1690.720	1672.710	1669.020
25	1538.220	1505.160	1491.500
35	1287.600	1234.040	1237.710
45	887.080	885.930	898.810
55	518.510	556.900	561.680
65	283.450	278.910	318.580
75	173.210	145.710	190.060
85	60.280	52.640	77.080
90	1.820	2.230	5.750

### 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%	0%	0%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100	100	100
1	110	105	102	98	107	103	100	97	99	96	93	95	93	91	92	90	88	86	86	86	86	86	86	86	86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74	74	74	74	74	74	74	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64	64	64	64	64	64	64	64
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56	56	56	56	56	56	56	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49	49	49	49	49	49	49	49
6	74	61	53	47	72	60	52	47	58	51	46	57	51	46	55	50	45	43	43	43	43	43	43	43	43
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39	39	39	39	39	39	39	39
8	64	51	43	38	62	51	43	37	49	42	37	48	42	37	47	41	37	35	35	35	35	35	35	35	35
9	60	47	39	34	59	47	39	34	45	39	34	44	38	34	43	38	34	32	32	32	32	32	32	32	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29	29	29	29	29	29	29	29

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

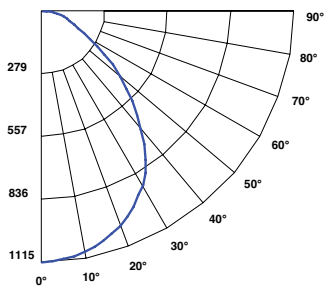
## 22-OSMT-LED-2400L-DIM10-120-40K

WATTAGE: 24.9

LUMENS: 2490

TOTAL LUMINAIRE EFFICACY: 100

### Candle Power Distribution (Candelas)



### Spacing Criteria

0-180 : 1.20  
90-270 : 1.18  
Diagonal : 1.26

**EFFICACY: 100 LM/W**

### Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-30°	847.61	N.A.	34.00
0-40°	1355.18	N.A.	54.40
0-60°	2140.27	N.A.	85.90
0-90°	2490.22	N.A.	100.00
0-180°	2490.22	N.A.	100.00

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

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	2110	2114	2148
55°	1538	1660	1678
65°	1129	1117	1276
75°	1126	949	1237
85°	1198	1062	1496

### Candela Tabulation

	0	45	90
0	1113.064	1113.064	1113.064
5	1104.980	1101.970	1104.150
15	1056.790	1047.640	1044.100
25	962.090	942.690	934.630
35	805.380	773.830	776.530
45	554.930	555.990	565.030
55	328.200	354.230	357.970
65	177.440	175.550	200.520
75	108.390	91.380	119.120
85	38.830	34.420	48.500
90	1.130	1.270	3.200

### 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%	0%	0%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100	100	100
1	110	105	102	98	107	103	100	97	99	96	93	95	93	91	92	90	88	86	86	86	86	86	86	86	86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74	74	74	74	74	74	74	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64	64	64	64	64	64	64	64
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56	56	56	56	56	56	56	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49	49	49	49	49	49	49	49
6	74	61	53	47	72	60	52	47	58	51	46	57	51	46	55	50	45	43	43	43	43	43	43	43	43
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9	60	47	39	34	59	47	39	34	45	39	34	44	38	34	43	38	33	32	32	32	32	32	32	32	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29	29	29	29	29	29	29	29

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance