OSMT-LED
SERIES

LED SURFACE MOUNT TROFFER SERIES

2' X 4' LED SURFACE MOUNT SPECIFICATION GRADE TROFFER

4-1/4"

24"

48"
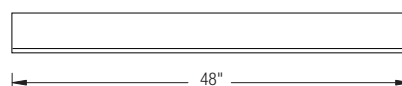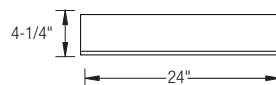
4000 LUMENS	5000 LUMENS	6000 LUMENS	8000 LUMENS
36 WATT	**44** WATT	**53** WATT	**71** WATT
According to DLC Test Results	According to DLC Test Results	According to DLC Test Results	According to DLC Test Results

CALCULATED L70 LIFETIME 83,000 HRS

CALCULATED L80 LIFETIME 50,000 HRS

DLC QPL LISTED

* For list of qualified DLC fixture, please consult factory

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
- Mitered door frame prevents light leaks, and minimizes dust from entering fixture
- Constructed of one-piece ribbed unitized 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. **ELD010.1** - 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, Hubble Automation, and others.

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

WARRANTY - Limited 5 Year Warranty

SAMEDAY SHIPPING (On selected configuration, consult factory)

LIGHTING STANDARD TITLE 20 COMPLIANT

PROUDLY ASSEMBLED in AMERICA

Ordering Information: Example: 24-OSMT-LED-4000L-DIM10-MVOLT-30K-85

FIXTURE SIZE	SERIES	TYPE	LUMENS	DIMMING	VOLTAGE	CCT	CRI	EMERGENCY	LENS	OTHER OPTIONS
24 - 2' X 4'	**OSMT**-Oracle Surface Mount Troffer	**LED**	**4000L** - (4000 lumens) **5000L** - (5000 lumens) **6000L** - (6000 lumens) **8000L** - (8000 lumens)	**DIM10** - 0-10V Dimming * **DIMST** - Step Dimming * **LUTH** - Lutron Hilume * **LUT2W** - Lutron 2Wire **LUTFTB** - Lutron Fade to Black **ELD010.1** - 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**	**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

* DIMST, LUTH and LUT2W dimming options are only available for the fixtures up to 5000 lumens.

ORACLE LIGHTING
Oracle by Elite Lighting

> WWW.ORACLELIGHTING.COM > TEL: (323) 888-1973 > FAX: (323) 888-1977

EASYFIT
by EnOcean

Controls Options to be Installed on the Fixture

Self-powered sensors and switches, combined with LED fixture controllers and a commissioning tool, permit easy configuration, intelligent local control, and seamless integration into building automation systems.
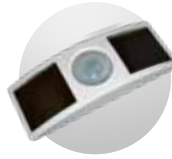
LEDRU
LED Relay Zone
Controller 0-10V

LEDDU
LED Zone
Controller 0-10V

Controls Provided by EnOcean

EOSCU
Occupancy Sensor
Ceiling Mount

EOSWU
Occupancy Sensor
Wall Mount

ELLSU
Daylight Sensor
Ceiling Mount

ESRPU/ EDRPU
Wall Switches

WSS0S-S9W   WSS0S-D9W

LEVITON
Wall Switches
902 MHz category

NWC 300U
Navigan Wireless
Commissioner

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legrand
WATTSTOPPER®

Controls Installed on the Fixture

LMFC-011

Fixture Will be Shipped Legrand Wattstopper DLM Enabled with LMFC-011 Module Controller Installed on the Fixture. Fixtures will be compatible with Legrand Wattstopper DLM Load Controllers, DLM Sensors, DLM Switches, DLM Remote Control, and DLM Configuration tool.

Switches	Remote	Configuration tool	Plug Load Controllers	Sensors
LMSW-105 LMDM-101	LMRH-105	LMCT-100-2	LMPL-101 LMPL-201	LMDC-100 LMLS-400 LMLS-500

FD-301

Fixture Will be Shipped with Legrand Wattstopper FD-301 (Integrated Daylight Dimming Photosensor) installed and FS-PP-V2 Fixture Power Pack.

FS-PP-V2

FM-105

Fixture Will be Shipped with Legrand Wattstopper FM-105 (Super HF Occupancy Sensor line voltage sensor that turns lighting on and off based on occupancy, and can hold lights off when sufficient daylight is available) installed.

FSP-202

Fixture Will be Shipped with Legrand Wattstopper FSP-202 (multi-level control based on motion and/ or daylight contribution) installed.

FSP-212

Fixture Will be Shipped with Legrand Wattstopper FSP-212 (multi-level control based on motion and/ or daylight contribution) installed.

LED

Control Options

PHILIPS
EasySense

Philips EasySense sensors provide luminaire-level control with Occupancy sensing, Daylight harvesting, and Field task tuning.

Controls Provided by Philips

ZBT-S1AWH   **ZBT-S2AWH**

Illumra Wireless Switches

Controls Installed on the Fixture

SRB

Fixture will be Shipped Sensor Ready with SRB Bridge . Fixture will be Compatible with EasySense Sensor SNS200-CMP which can be Added in the Field for Remote Mounting. Fixture May Only be Controlled with Philips Field App or Wireless Switches or any 0-10V. Wall Box Dimmer.

PHILIPS-XSR + SNS200-CMP

Fixture will be Shipped Sensor Ready with PHILIPS-XSR driver and EasySense SNS200-CMP Sensor which is Included to be Remote Mounted. Fixture May Only be Controlled with Philips Field App or Wireless Switches

SRB + SNS200-CMP

Fixture Will be Shipped Sensor Ready with PHILIPS SRB Bridge and EasySense SNS200-CMP Sensor which is Included to be Remote Mounted. Fixture May Only be Controlled with Philips Field App or Wireless Switches or any 0-10V. Wall Box Dimmer.

Philips Field App

enlighted

Enlighted Smart Sensors features digital motion, ambient light, and temperature sensing, the device provides autonomous fixture-level control

Controls Provided by Enlighted

WS-2-00
Enlighted Room Controller

Controls Installed on the Fixture

Gateway   Switch

CU-E3-1R + SU-4E-00

Fixture Will be Shipped with Enlighted Enlighted CU-E3-1R Control Unit Power Pack installed and SU-4E-00 Sensor provided (to be installed remotely).   Fixture May be Controlled with Enlighted Gateway, Energy Manager or Enlighted Room Controller WS-2-00

Programmable with Laptop

CU-E3-1R

Fixture Will be Shipped Sensor Ready with Enlighted CU-E3-1R Control Unit Power Pack. Fixture will be be compatible with Enlighted SU-4E-00 Sensor which can be Added in the Field Remote Mounting. Fixture May be Controlled with Enlighted Gateway, Energy Manager or Enlighted Room Controller WS-2-00

PHILIPS-XSR

Fixture Will be Shipped Sensor Ready with PHILIPS-XSR driver.   Fixtures will be be compatible with Enlighted CS-D2 Two-wire sensor which can be Added in the Field for Remote Mounting. Fixture May be Controlled with Enlighted Gateway, Energy Manager or Enlighted Room Controller WS-2-00.

PoE Network Switch

Energy Manager

LED

Control Options

CONTROL OPTIONS

LUTRON

Controls Installed on the Fixture

FCJS-010
Individual
Fixture Control

FCJS-ECO
Individual
Fixture Control

Fixture Will be Shipped LUTRON VIVE Enabled with LUTRON FCJS-010 0-10V Control Module Installed on the Fixture. Fixtures will be compatible with Lutron FC-SENSOR Occupancy/ Daylight Sensor or FC-VSENSOR Vacancy/Daylight Sensor which can be Added in the Field for Remote Mounting. Fixture May be Controlled with any Vive control systems. Fixtures must be ordered with a 0-10V. Driver.

Fixture Will be Shipped LUTRON VIVE Enabled with LUTRON FCJS-ECO EcoSystem Control Module Control Module Installed on the Fixture. Fixtures will be compatible with Lutron FC-SENSOR Occupancy/Daylight Sensor or FC-VSENSOR Vacancy/Daylight Sensor which can be Added in the Field for Remote Mounting. Fixture May be Controlled with any Vive control systems. Fixtures must be ordered with a Lutron Driver.

Controls Provided by Lutron

Lutron App

Vive Wireless Hub

DayLight Sensor

Ceiling Mount Occupancy Sensor

Ceiling Mount Occupancy/Daylight Sensor

Wall Mount Occupancy Sensor

Wall Mount Switch

Pico Remote

LEVITON

Fixture will be shipped with Leviton ZL027-N0W power control module installed on the fixture. Fixtures will be compatible with Leviton ZL00J-D0W sensor control module which can be added in the field for remote mounting. Fixture must be controlled with Leviton Intellect Keypad Room Controller, or Leviton Neuron App.

ZL027-N0W
Power control module

ZL00J-D0W
Sensor control module

Leviton Keypad

ZLDNK-1W

ZLDNK-2W

ZLDNK-4W

ZLDNK-8W

Intellect™ Keypad Room Controller (Required)

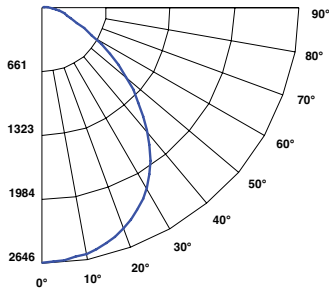### Leviton App

Neuron App

Control Options

PHOTOMETRY DATA

24-OSMT-LED-6000L-DIM10-120-40K

WATTAGE: **6006**	LUMENS: **53.2**	TOTAL LUMINAIRE EFFICACY: **113**

Candle Power Distribution (Candelas)

Scale markings: 661, 1323, 1984, 2646

Spacing Criteria

0-180	:	**1.22**
90-270	:	**1.26**
Diagonal	:	**1.28**

EFFICACY: 113 LM/W

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-30°	2050.31	N.A.	34.10
0-40°	3293.69	N.A.	54.80
0-60°	5206.39	N.A.	86.70
0-90°	6005.77	N.A.	100.00
0-180°	6005.77	N.A.	100.00

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	2491	2790	2947
55°	1695	2038	2294
65°	1280	1202	1597
75°	1266	1064	1418
85°	945	1006	1607

Candela Tabulation

	0	45	90
0	2642.71	2642.71	2642.71
5	2628.41	2631.41	2636.33
15	2532.04	2545.54	2557.84
25	2322.83	2351.39	2371.73
35	1935.07	2001.23	2041.40
45	1310.33	1467.62	1550.12
55	723.12	869.80	978.64
65	402.55	377.85	501.96
75	243.77	204.79	272.99
85	61.28	65.21	104.17
90	2.26	2.48	2.72

Coefficients of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance 20% = PF

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	79	68	59	53	77	67	59	53	64	58	52	63	57	52	61	55	51	49
6	74	61	53	47	72	60	53	47	59	52	46	57	51	46	56	50	46	44
7	69	56	48	42	67	55	47	42	54	47	42	52	46	41	51	45	41	39
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29

ROOM CAVITY RATIO

RC - Ceiling Cavity Reflectance   RW - Wall Reflectance

24-OSMT-LED-4000L-DIM10-120-40K

WATTAGE: **35.5**	LUMENS: **3999**	TOTAL LUMINAIRE EFFICACY: **113**

Candle Power Distribution (Candelas)

Scale markings: 439, 879, 1318, 1757
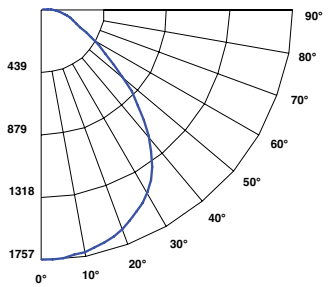
Spacing Criteria

0-180	:	**1.26**
90-270	:	**1.24**
Diagonal	:	**1.28**

EFFICACY: 113 LM/W

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-30°	1362.53	N.A.	34.10
0-40°	2188.77	N.A.	54.70
0-60°	3465.41	N.A.	86.70
0-90°	3999.03	N.A.	100.00
0-180°	3999.03	N.A.	100.00

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	1815	1930	1930
55°	1283	1466	1493
65°	949	884	1047
75°	946	738	930
85°	968	911	1016

Candela Tabulation

	0	45	90
0	1757.289	1757.289	1757.289
5	1752.540	1750.490	1751.180
15	1697.390	1697.260	1697.120
25	1571.280	1578.920	1570.590
35	1352.600	1356.680	1345.620
45	955.010	1015.210	1015.200
55	547.490	625.690	636.850
65	298.360	278.020	329.060
75	182.180	142.010	179.090
85	62.730	59.090	65.900
90	5.260	4.510	1.830

Coefficients of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance 20% = PF

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	79	68	59	53	77	66	59	53	64	58	52	63	56	52	61	55	51	49
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29

ROOM CAVITY RATIO

RC - Ceiling Cavity Reflectance   RW - Wall Reflectance