

| NOMINAL LUMENS | DELIVERED LUMENS | WATTAGE |
|----------------|------------------|---------|
| 6000           | 6060             | 60 W    |
| 5000           | 5245             | 48 W    |
| 4000           | 4250             | 38 W    |

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

## FEATURES

This fully luminous edge-lit LED architectural troffer has a low-profile design that optimizes shallow plenum spaces. Featuring multiple lumen packages, color temperatures, and dimming options, this LED troffer has an architectural look perfect for elevating any interior space. New construction or retrofit for either recessed or surface mount installation. Ideal for commercial office spaces, retail, educational, and healthcare facilities.

|                   |                                                                                                        |
|-------------------|--------------------------------------------------------------------------------------------------------|
| LUMENS            | 4000, 5000, 6000                                                                                       |
| CCT               | 30K, 35K, 40K, 50K                                                                                     |
| CRI               | 85+                                                                                                    |
| UGR               | <19                                                                                                    |
| 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, ELDO10.1, DALI.1 |
| EMERGENCY         | 10W - Up to 1000L output (Bodine BSL310)<br>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

LED engines and drivers are removable and upgradable even after luminaire installation.

#### OPTICAL SYSTEM

Optical system combines reflective and refractive optics for even, comfortable illumination. Evenly spaced edge-lit LEDs provide uniform illumination from luminaire to luminaire. Light passes smoothly through a light guide plate for even distribution and high output.

#### CONSTRUCTION

Heavy-duty 20-gauge cold rolled steel body, post-painted with a highly reflective 93% white coat. All corners interlock to remove sharp edges for safe handling. Top cover conceals internal electrical components.

#### REMOTE DRIVER OPTION

Remote driver option is available. Remote driver can be mounted virtually anywhere within the length of the 20-ft cord.

#### FINISH

Post-painted with a 93% reflective white coat to improve luminaire efficacy, with all body components seamlessly interlocked for added structural strength.

#### MOUNTING

Luminaire depth of 3 1/4" fits into shallow plenum spaces. The Lux accommodates lay-in ceilings, Slot T, and T-bar suspension systems for 5/8" and 3/8" ceiling thicknesses. Four corner tie points and built-in earthquake clips standard. 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.

#### 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 Forward Phase Control, 1% dimming in 120V only. Available on all luminaires up to 40 watts.

**LUTH** - Lutron LDE1 Hi-Lume Eco System. 1% dimming with Soft in Fade to Black dimming technology.

**ELDO10.1** - EldoLED SoloDrive 0-10V. Dimming down to 0.1%. Available on all luminaires up to 100 watts.

**DALI** - DALI DT6, DT8 dimming down to 1%. Available on all luminaires up to 100 watts.

**ELDODMX** - EldoLED PowerDrive dimming down to 0.1%. Available on all luminaires up to 100 watts.

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-LUX-LED-4000L-DIM10-MVOLT-30K-85

| 24           | LUX                | LED  |                                                                   |                                                                                                                                                                                                                |                                                              |                          |     |                            |                                                                                                                                                       |
|--------------|--------------------|------|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|--------------------------|-----|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| FIXTURE SIZE | SERIES             | TYPE | LUMENS                                                            | DIMMING                                                                                                                                                                                                        | VOLTAGE                                                      | CCT                      | CRI | EMERGENCY                  | OTHER OPTIONS                                                                                                                                         |
| 24 - 2' X 4' | LUX<br>LED Troffer | LED  | 6000L - 6000 lumens<br>5000L - 5000 lumens<br>4000L - 4000 lumens | DIM10 - 0-10V Dimming<br>DIMST - Step Dimming<br>LUTH - Lutron HiLume<br>LUT2W - Lutron 2Wire<br>LUTFTB - Lutron Fade to Black<br>ELDO10.1 - EldoLED 0-10V<br>ELDODALI - EldoLED DALI<br>ELDODMX - EldoLED DMX | MVOLT<br>347*<br><small>*Consult factory for details</small> | 30K<br>35K<br>40K<br>50K | 85  | EMG-LED-10W<br>EMG-LED-20W | FBF Internal Fast Blow Fuse<br>SBF Internal Slow Blow Fuse<br>RIS Radio Interference Suppressor<br>RD Remote Driver<br>USA Made in America Compliance |

**24-LUX-LED-6000L-DIM10-MVOLT-30K-85**

INPUT WATTS: **60**

LUMENS: **6060**

CRI: **85**

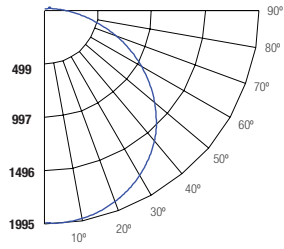
EFFICACY: **101**

CCT: **3000K**

TEST NO.: **EL05082055**

SPACING CRITERIA: **1.42**

**Candle Power Distribution (Candelas)**



**Zonal Lumens Summary**

| Zone | Lumens  | %Lamp | %Fixt |
|------|---------|-------|-------|
| 0-20 | 731.53  | 12.1  | 12.1  |
| 0-30 | 1565.69 | 25.8  | 25.8  |
| 0-40 | 2591.55 | 42.8  | 42.8  |
| 0-60 | 4679.37 | 77.2  | 77.2  |
| 0-80 | 5896.62 | 97.3  | 97.3  |
| 0-90 | 6009.56 | 99.2  | 99.2  |

**Luminance (Average candela/M<sup>2</sup>)**

| Angle in Degrees | Average 0° | Average 45° | Average 90° |
|------------------|------------|-------------|-------------|
| 45               | 2672       | 2716        | 2702        |
| 55               | 2599       | 2681        | 2656        |
| 65               | 2450       | 2530        | 2536        |
| 75               | 2124       | 2209        | 2230        |
| 85               | 1413       | 1543        | 1642        |

**Lumens Per Zone**

| Zone  | Lumens  |
|-------|---------|
| 0-10  | 188.4   |
| 10-20 | 543.13  |
| 20-30 | 834.16  |
| 30-40 | 1025.86 |
| 40-50 | 1088    |
| 50-60 | 999.81  |
| 60-70 | 775.44  |
| 70-80 | 441.82  |
| 80-90 | 112.94  |

**Candela Tabulation**

| Q  |         |
|----|---------|
| 0  | 1988.84 |
| 5  | 1988.35 |
| 15 | 1930.6  |
| 25 | 1815.27 |
| 35 | 1643.4  |
| 45 | 1405.42 |
| 55 | 1108.83 |
| 65 | 770.12  |
| 75 | 409.02  |
| 85 | 91.59   |
| 90 | 10.58   |

**Coefficients of Utilization - Zonal Cavity Method**

Effective Floor Cavity Reflectance 0.20

| Cone of Light           |                                   |                         |                          |
|-------------------------|-----------------------------------|-------------------------|--------------------------|
| 2                       | 688                               | 5.4                     | 5.7                      |
| 3                       | 183                               | 10.5                    | 11.1                     |
| 5                       | 79.6                              | 15.9                    | 16.8                     |
| 7                       | 44.3                              | 21.3                    | 22.5                     |
| 8                       | 28.9                              | 26.7                    | 27.9                     |
| 10                      | 19.9                              | 31.8                    | 33.6                     |
| (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.

| 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  | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 101 | 101 | 101 | 99 |  |  |    |
|                   | 1  | 108 | 103 | 99  | 95  | 106 | 101 | 97  | 94  | 97  | 93  | 90  | 93  | 90  | 88  | 89  | 87  | 85  | 83 |  |  |    |
|                   | 2  | 98  | 90  | 83  | 77  | 96  | 88  | 81  | 76  | 84  | 79  | 74  | 81  | 76  | 72  | 78  | 74  | 71  | 68 |  |  |    |
|                   | 3  | 89  | 79  | 70  | 64  | 87  | 77  | 69  | 63  | 74  | 67  | 62  | 71  | 65  | 61  | 68  | 64  | 59  | 57 |  |  |    |
|                   | 4  | 82  | 69  | 61  | 54  | 79  | 68  | 60  | 53  | 65  | 58  | 52  | 63  | 57  | 52  | 61  | 55  | 51  | 49 |  |  |    |
|                   | 5  | 75  | 62  | 53  | 46  | 73  | 61  | 52  | 46  | 59  | 51  | 45  | 56  | 50  | 45  | 54  | 49  | 44  | 42 |  |  |    |
|                   | 6  | 69  | 56  | 47  | 40  | 67  | 55  | 46  | 40  | 53  | 45  | 39  | 51  | 44  | 39  | 49  | 43  | 39  | 36 |  |  |    |
|                   | 7  | 64  | 50  | 41  | 35  | 62  | 49  | 41  | 35  | 48  | 40  | 35  | 46  | 40  | 34  | 45  | 39  | 34  | 32 |  |  |    |
| 8                 | 60 | 46  | 37  | 31  | 58  | 45  | 37  | 31  | 44  | 36  | 31  | 42  | 36  | 31  | 41  | 35  | 30  | 29  |    |  |  |    |
| 9                 | 56 | 42  | 34  | 28  | 54  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 32  | 28  | 38  | 32  | 27  | 26  |    |  |  |    |
| 10                | 52 | 39  | 31  | 25  | 51  | 38  | 31  | 25  | 37  | 30  | 25  | 36  | 30  | 25  | 35  | 29  | 25  | 23  |    |  |  |    |

RC - Ceiling Cavity Reflectance

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