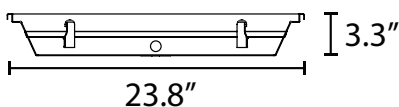
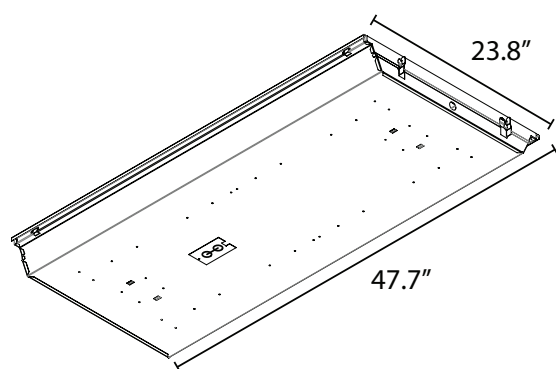




## 2X4 LED RECESSED TROFFER



### PRODUCT DESCRIPTION:

Combining high efficiency and a high quality light in a performance-and value-optimized package, MaxLite's ECO-T LED Recessed Troffer represents the inflection point to making LEDs a cost-effective replacement for fluorescent troffers in lay-in or T-grid ceilings for the commercial and institutional market, including schools and municipalities.

ECO-T offers a classic recessed housing with LED strips that resemble fluorescent tubes when lit. While fluorescent fixtures can buzz and flicker and contribute to headache and eye fatigue, ECO-T is constructed with LM-80-rated LEDs and a prismatic clear diffuser for higher lumens, making it the silent and flicker-free solution for offices, lobbies, hallways and conference rooms in schools, municipalities, airports, healthcare facilities, showrooms, corporate campuses and retailers trying to stretch renovation and construction budgets. With standard 0-10v dimming provided, ECO-T maintains 90 percent of the light in a 60-degree beam angle to project light downward towards surfaces.

### FEATURES:

- 150,000\* calculated hour life at L70 standards for 35W models
- 85,000\* calculated hour life at L70 standards for 45W models
- 10.0 lbs.
- 0-10V dimming standard (down to 10%)
- IC-Rated
- CRI: 80
- Fits standard T-bar grid (drop ceilings)
- Also available in 2'x2'
- Prismatic diffuser is standard
- Room side access door to service and upgrade LED strips
- Suitable for damp locations
- Five year limited warranty

#### MODEL SELECTION (Full list of order codes on pg. 2)

Typical order example: MLRT24D4550EM

| MLRT   | 24D                |                              |                                                  |                                                             |
|--------|--------------------|------------------------------|--------------------------------------------------|-------------------------------------------------------------|
| FAMILY | SIZE               | WATTAGE                      | COLOR TEMPERATURE (CCT)                          | EMERGENCY BACKUP                                            |
| MLRT   | 24D= 2X4, Dimmable | 35= 35 Watts<br>45= 45 Watts | 30= 3000K<br>35= 3500K<br>41= 4100K<br>50= 5000K | (OMIT)= No Emergency Power<br>2EM= Emergency Battery Backup |

#### ACCESSORIES

| ORDER CODE | MODEL NUMBER | DESCRIPTION       |
|------------|--------------|-------------------|
| 71884      | MLSMKRT24D   | Surface mount kit |

#### NOTES:

- <sup>1</sup> These models are available as built to order
- <sup>2</sup> In the event of a power failure, the battery backup units switch to emergency mode (700 lumen output) and operates the fixture for a minimum of 90 minutes.
- \* Based on TM-21 calculations

## SPECIFICATIONS:

| SPECIFICATIONS:     |                       | MLRT24D3535                            | MLRT24D3541 | MLRT24D3550 | MLRT24D4535   | MLRT24D4541 | MLRT24D4550 |
|---------------------|-----------------------|----------------------------------------|-------------|-------------|---------------|-------------|-------------|
| ITEM                | SPECIFICATION         | DETAILS - 35W                          |             |             | DETAILS - 45W |             |             |
| GENERAL PERFORMANCE | Power Consumption (W) | 33                                     | 32          | 34          | 45            | 45          | 45          |
|                     | Lumens Delivered (lm) | 3283                                   | 3112        | 3375        | 4265          | 4395        | 4530        |
|                     | CRI                   | 82                                     | 82          | 83          | 80            | 80          | 80          |
|                     | Color Temperature     | 3500K                                  | 4100K       | 5000K       | 3500K         | 4100K       | 5000K       |
|                     | Lumens Delivered      | 3283                                   | 3112        | 3375        | 4265          | 4395        | 4530        |
|                     | Efficacy              | 100 lm/W                               | 97.3 lm/W   | 100 lm/W    | 99 lm/W       | 104 lm/W    | 106 lm/W    |
|                     | L70 Lifetime (hours)  | 150,000                                |             |             | 85,000        |             |             |
|                     | Spacing Criteria      | Available Upon Request                 |             |             |               |             |             |
|                     | Color Consistency     | Proprietary binning for uniform color  |             |             |               |             |             |
| ELECTRICAL          | Power Factor          | 0.99                                   |             |             |               |             |             |
|                     | Input Voltage         | 120V-277V 50/60 Hz                     |             |             |               |             |             |
| PHYSICAL            | Housing               | Steel                                  |             |             |               |             |             |
|                     | Optics                | Standard prismatic diffuser            |             |             |               |             |             |
|                     | Mounting              | Fits standard grid for drop ceilings   |             |             |               |             |             |
|                     | Operating Temperature | -4°F to 104°F                          |             |             |               |             |             |
|                     | Humidity              | 20% - 85% RH, non condensing           |             |             |               |             |             |
| APPLICATION         | Certification         | NSF*, Title 24, ETL, FCC, LM-79, LM-80 |             |             |               |             |             |
|                     | Environment           | Indoor Use                             |             |             |               |             |             |
|                     | Warranty              | 5 Year                                 |             |             |               |             |             |

\*Only 45W models are NSF certified

| RECOMMENDED DIMMING CONTROLS |           |
|------------------------------|-----------|
| Lutron                       | NFTV0-10  |
| Leviton                      | IP 710DL  |
| Leviton                      | IP 710DLZ |

Lighting layouts and spacing criteria available upon request

## ORDERING\*\*:

| ORDER CODE | MODEL NUMBER   | OPTIONS                  | SIZE | POWER (WATTS) | OUTPUT (LUMENS) | CCT   |
|------------|----------------|--------------------------|------|---------------|-----------------|-------|
| 74195      | MLRT24D3535    | None                     | 2x4  | 35            | 3,283           | 3500K |
| 96257      | MLRT24D3535EM  | Emergency Battery Backup |      |               | 3,112           | 4100K |
| 74196      | MLRT24D3541    | None                     |      |               | 3,375           | 5000K |
| 74830      | MLRT24D3541EM  | Emergency Battery Backup |      | 45            | 4,265           | 3500K |
| 74197      | MLRT24D3550    | None                     |      |               | 4,395           | 4100K |
| 74830      | MLRT24D3550EM  | Emergency Battery Backup |      |               | 4,530           | 5000K |
| 72893      | MLRT24D4535*   | None                     |      |               |                 |       |
| 73513      | MLRT24D4535EM* | Emergency Battery Backup |      |               |                 |       |
| 72892      | MLRT24D4541*   | None                     |      |               |                 |       |
| 73514      | MLRT24D4541EM  | Emergency Battery Backup |      |               |                 |       |
| 72891      | MLRT24D4550    | None                     |      |               |                 |       |
| 73515      | MLRT24D4550EM  | Emergency Battery Backup |      |               |                 |       |

\*NSF Certified

\*\*Please contact your MaxLite representative to order products that don't have order codes listed here.

## CONSTRUCTION:

- The housing and back panel are sheet steel
- Standard prismatic lens
- Modular construction for easy replacement

## CONTROL:

- Integral Class2 ETL-listed LED driver
- Up to 20 panels can be linked to each master panel

## BUILDING AUTOMATION COMPATIBLE:

Multiple panels can also be controlled from a single source. The panels can be linked to a building automation system. Contact your MaxLite representative for inquiries involving dimming control methods.

## ZONAL LUMEN TABULATION:

**MLRT24D3535**

| y(°)    | Lumens  | % Total |
|---------|---------|---------|
| 0-10    | 136.114 | 4.15%   |
| 10-20   | 391.34  | 11.92%  |
| 20-30   | 589.565 | 17.96%  |
| 30-40   | 675.584 | 20.58%  |
| 40-50   | 609.491 | 18.57%  |
| 50-60   | 428.31  | 13.05%  |
| 60-70   | 244.14  | 7.44%   |
| 70-80   | 147.481 | 4.49%   |
| 80-90   | 57.637  | 1.76%   |
| 90-100  | 0.592   | 0.02%   |
| 100-110 | 0.433   | 0.01%   |
| 110-120 | 0.408   | 0.01%   |
| 120-130 | 0.389   | 0.01%   |
| 130-140 | 0.389   | 0.01%   |
| 140-150 | 0.349   | 0.01%   |
| 150-160 | 0.277   | 0.01%   |
| 160-170 | 0.186   | 0.01%   |
| 170-180 | 0.07    | 0.00%   |
| Total   | 3282.8  | 100%    |

| y(°)   | Lumens   | % Total |
|--------|----------|---------|
| 0-60   | 2830.404 | 86.22%  |
| 60-90  | 449.258  | 13.69%  |
| 0-90   | 3279.662 | 99.91%  |
| 90-180 | 3.093    | 0.09%   |
| 0-180  | 3282.8   | 100%    |

**Zonal Lumen Data**

**MLRT24D3541**

| y(°)    | Lumens  | % Total |
|---------|---------|---------|
| 0- 10   | 128.62  | 4.13%   |
| 10- 20  | 369.974 | 11.89%  |
| 20- 30  | 558.441 | 17.94%  |
| 30- 40  | 642.11  | 20.63%  |
| 40- 50  | 580.855 | 18.67%  |
| 50- 60  | 407.677 | 13.10%  |
| 60- 70  | 229.938 | 7.39%   |
| 70- 80  | 137.742 | 4.43%   |
| 80- 90  | 53.663  | 1.72%   |
| 90-100  | 0.527   | 0.02%   |
| 100-110 | 0.408   | 0.01%   |
| 110-120 | 0.395   | 0.01%   |
| 120-130 | 0.384   | 0.01%   |
| 130-140 | 0.383   | 0.01%   |
| 140-150 | 0.341   | 0.01%   |
| 150-160 | 0.268   | 0.01%   |
| 160-170 | 0.179   | 0.01%   |
| 170-180 | 0.068   | 0.00%   |
| Total   | 3112.0  | 100%    |

| y(°)    | Lumens   | % Total |
|---------|----------|---------|
| 0- 60   | 2687.677 | 86.37%  |
| 60- 90  | 421.343  | 13.54%  |
| 0-90    | 3109.02  | 99.91%  |
| 90- 180 | 2.953    | 0.09%   |
| 0- 180  | 3112.0   | 100%    |

**Zonal Lumen Data**

**MLRT24D3550**

| y(°)    | Lumens  | % Total |
|---------|---------|---------|
| 0- 10   | 138.331 | 4.10%   |
| 10- 20  | 398.571 | 11.81%  |
| 20- 30  | 603.481 | 17.88%  |
| 30- 40  | 695.665 | 20.61%  |
| 40- 50  | 630.867 | 18.69%  |
| 50- 60  | 445.947 | 13.21%  |
| 60- 70  | 252.418 | 7.48%   |
| 70- 80  | 149.76  | 4.44%   |
| 80- 90  | 56.906  | 1.69%   |
| 90-100  | 0.51    | 0.02%   |
| 100-110 | 0.48    | 0.01%   |
| 110-120 | 0.46    | 0.01%   |
| 120-130 | 0.444   | 0.01%   |
| 130-140 | 0.446   | 0.01%   |
| 140-150 | 0.39    | 0.01%   |
| 150-160 | 0.306   | 0.01%   |
| 160-170 | 0.199   | 0.01%   |
| 170-180 | 0.075   | 0.00%   |
| Total   | 3375.3  | 100%    |

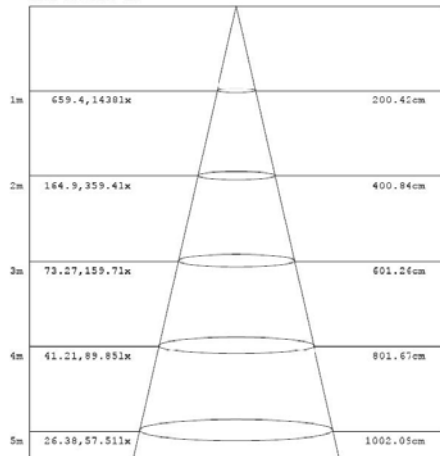
| y(°)    | Lumens   | % Total |
|---------|----------|---------|
| 0- 60   | 2912.862 | 86.30%  |
| 60- 90  | 459.084  | 13.60%  |
| 0-90    | 3371.946 | 99.90%  |
| 90- 180 | 3.31     | 0.10%   |
| 0- 180  | 3375.3   | 100%    |

**Zonal Lumen Data**

## ILLUMINANCE PLOT:

**MLRT24D3535**

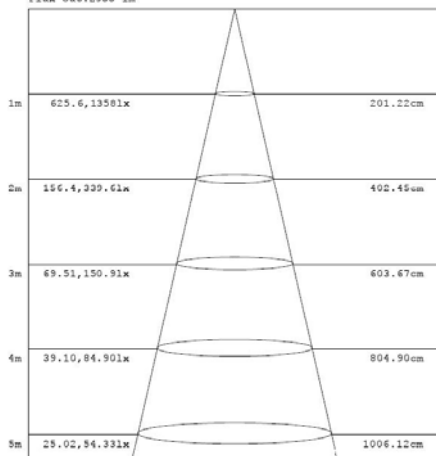
Flux out:2145 lm



Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

**MLRT24D3541**

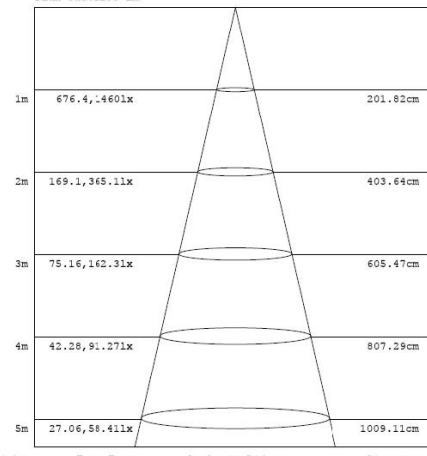
Flux out:2235 lm



Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

**MLRT24D3550**

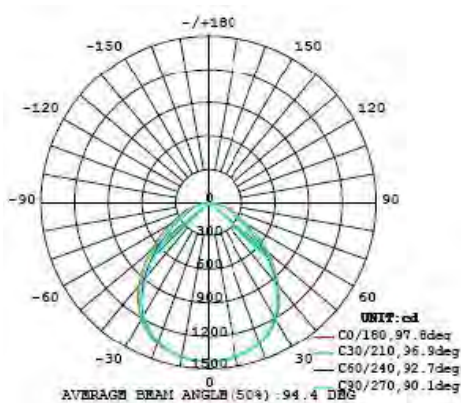
Flux out:2200 lm



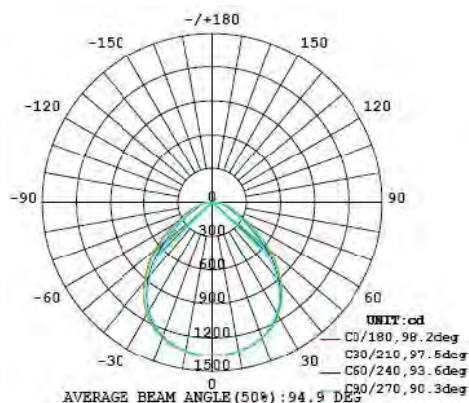
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

## POLAR CANDELA DISTRIBUTION:

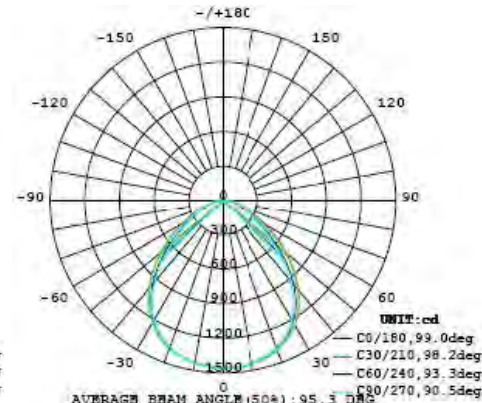
**MLRT24D3535**



**MLRT24D3541**

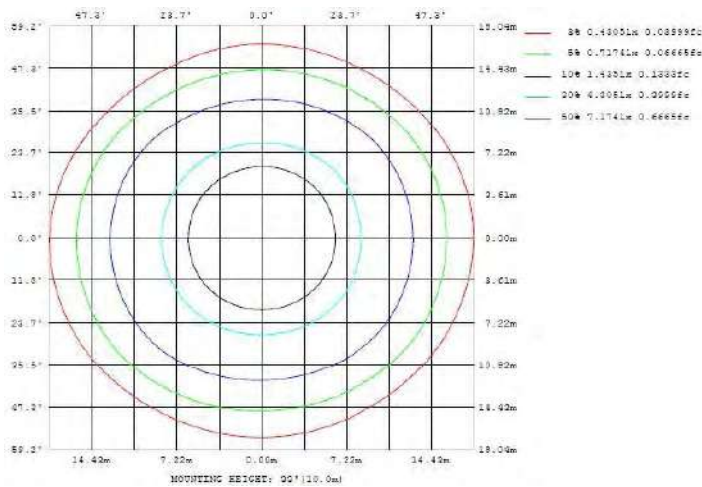


**MLRT24D3550**



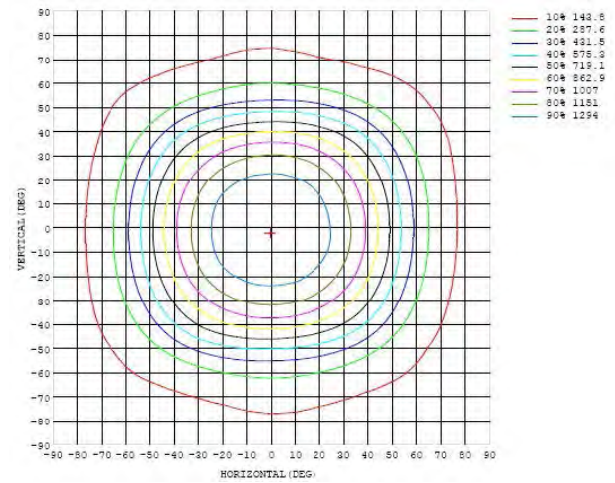
## ILLUMINANCE PLOT (FOOTCANDLES):

**MLRT24D3535**

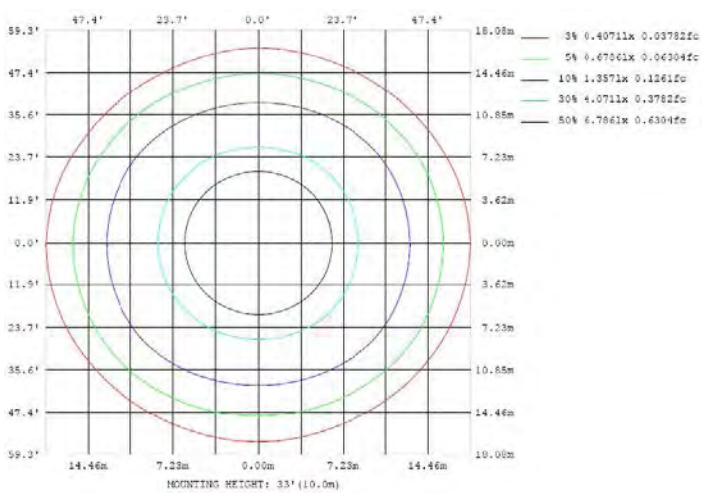


## ISOCANDELA PLOT:

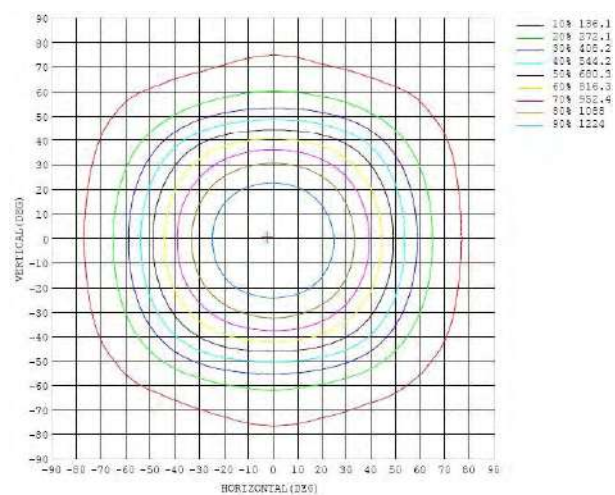
**MLRT24D3535**



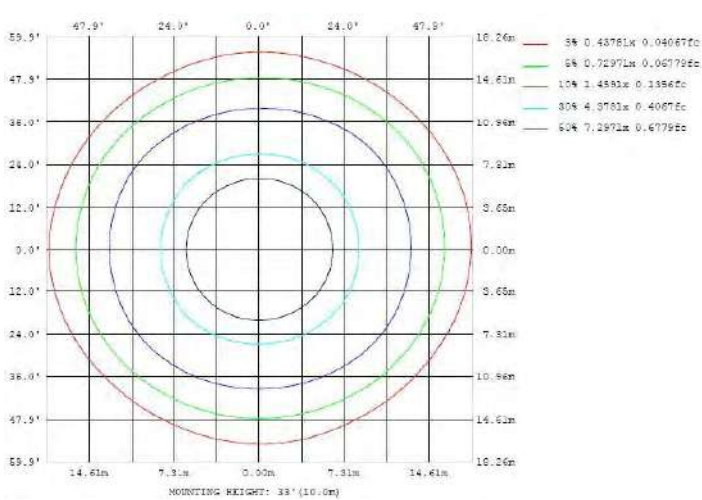
**MLRT24D3541**



**MLRT24D3541**



**MLRT24D3550**



**MLRT24D3550**

