Light Emitting Designs

# SML 1000 Series

## LED Linear Utility Lighting

## Advantages of SML1000

- All-purpose utility lighting with **Short ROI Period**
- **Light weight** easy to install versatile design with various mounting options
- **Smart Circuitry System** gives greater protection when used in unstable electrical grids
- **Glare-Free, 240°** comfortable uniform lighting for all working environments
- **Patented Passive Air Cooling System** enables low LED junction temperatures ($T_j$) for maintenance free long life
- Easy Access Serviceable all-in-one junction box / LED driver
- **Cost effective Solution** as a true LED replacement with a 5-Year Warranty
- Designed and Engineered in the **USA** and manufactured in Taiwan

## Application

- Manufacturing Plants
- Warehouses
- Parking Structures
- Utility Lighting
- Car Bays
- Convenient Stores
- Assembly Lines


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## LED Linear Utility Lighting

## Mounting Options

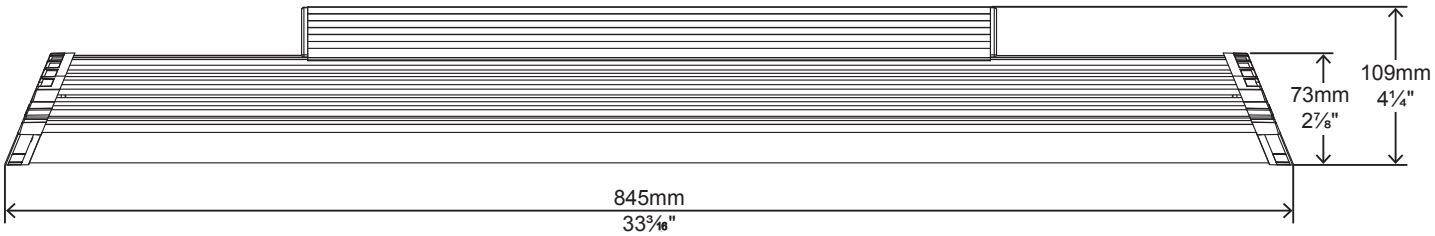
### TUBE MOUNTING SYSTEM

| Part Number | Part Description |
|---|---|
| TBH-SML | Tube Mounting System |

### SURFACE MOUNTING SYSTEM

| Part Number | Part Description |
|---|---|
| SMH-SML | Surface Mounting System |

## External Dimensions





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# SML 1000 Series

## LED Linear Utility Lighting - 24Watt

## Ordering Information

**SML** – – –

| Series | CCT | Driver | Mounting * |
|---|---|---|---|
| 050 = 500<br>100 = 1000<br>150 = 1500 | 30 = 3000K<br>40 = 4000K<br>50 = 5000K | ND = Non-Dimmable<br>DM = Dimmable | TBH = Tube Mount<br>SMH = Surface Mount |

*Surface Mount comes standard, please see accessories for additional mounting system options.
Tube Hanging System is only available for SML1000 and SML1500 models.

## Example

| Part Number | Part Description |
|---|---|
| **SML100-50DM-SMH** | 24Watt LED Surface Mount Luminaire / 90-277VAC / 5000K Cool White / Dimmable / Surface Mount |

## Packaging Information

| Case Quantity | Dimensions (LxWxH) | Weight |
|---|---|---|
| 16 | 98 x 39 x 44 cm<br>38⅝ x 15⅜ x 17¼ in | 22.60 kg<br>49.72 lbs |


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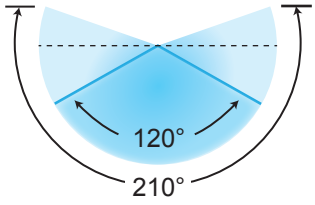
## LED Linear Utility Lighting - 24Watt

## Specification

| | |
|---|---|
| Input Voltage | 90-277VAC 47~63Hz |
| Fixture Watts * | 24 W |
| Lumens (Total) * | 2,640 Lumens |
| Efficacy * | 110 Lumens / W |
| LED Model | Nichia |
| Number of LEDs & Driving Current | 96@75mA |
| CRI | 85 |
| $T_S$ - Solder Point Temp * | 52°C |
| L70 Rating @ $T_a$ 25°C | > 80K hours |
| Lighting Control | Dimmable (0-10V) |
| Warranty | 5-Year Limited |
| Operational Temperature ($T_a$) | -40°C ~ 50°C |
| Storage Temp. / Humidity | -40°C ~ 80°C / 20 - 95% RH non - condensing |

* Test data @ Ta: 25°C
NOTE: All Values Have ±7% Tolerance

## Illumination Levels *




| Height | LUX | FC |
|---|---|---|
| 2m / 6.5ft | 172 | 16 |
| 3m / 9.8ft | 86 | 8 |
| 4m / 13ft | 46 | 4.2 |
| 5m / 16.5ft | 27 | 2.5 |

* Light Beam Angle: 210° Total / 120° @ 70% Flux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# SML 1000 Series

## LED Linear Utility Lighting - 24Watt

## Photometry (LM79 Test Number LTL 355371)

### Average Luminance Table (cd/m²)

Horizontal Angle (°)

Vertical Angle (°)

| | Along | 45 | Across |
|---|---|---|---|
| 45 | 18630 | 14571 | 13159 |
| 55 | 16379 | 11805 | 10221 |
| 65 | 13748 | 9366 | 7930 |
| 75 | 10352 | 7490 | 6437 |
| 85 | 4967 | 6461 | 5728 |

NOTE: All Values Have ±7% Tolerance

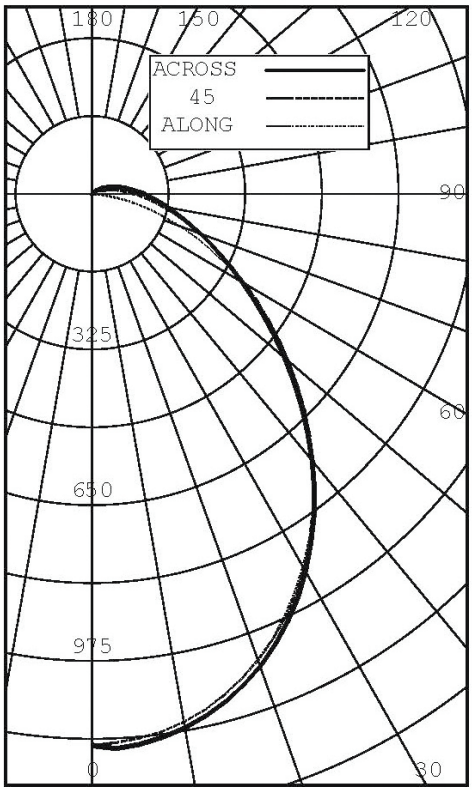
Lumen values may be lower than those indicated on the product specification page due to technological advancements.

### Zonal Lumens and Percentages

| Zone (°) | Lumens | % of Luminaire |
|---|---|---|
| 0-30 | 862 | 29.00 |
| 0-40 | 1371 | 46.13 |
| 0-60 | 2264 | 76.16 |
| 0-90 | 2861 | 96.25 |
| 40-90 | 1490 | 50.12 |
| 60-90 | 597 | 20.09 |
| 90-180 | 111 | 3.75 |
| 0-180 | 2972 | 100.00 |

NOTE: All Values Have ±7% Tolerance

### Polar Plot




### Intensity(Candlepower) Summary

| Angle | Along | 22.5 | 45 | 67.5 | Across | Output Lumens |
|---|---|---|---|---|---|---|
| 0 | 1151 | 1151 | 1151 | 1151 | 1151 | – |
| 5 | 1141 | 1138 | 1141 | 1144 | 1154 | 110 |
| 15 | 1082 | 1080 | 1084 | 1088 | 1097 | 305 |
| 25 | 969 | 968 | 974 | 976 | 984 | 447 |
| 35 | 815 | 814 | 818 | 817 | 820 | 509 |
| 45 | 637 | 634 | 637 | 631 | 628 | 488 |
| 55 | 455 | 452 | 458 | 449 | 444 | 405 |
| 65 | 281 | 290 | 307 | 303 | 300 | 296 |
| 75 | 130 | 161 | 193 | 200 | 200 | 191 |
| 85 | 21 | 74 | 115 | 131 | 134 | 110 |
| 90 | 0 | 46 | 87 | 105 | 109 | – |
| 95 | 0 | 27 | 64 | 83 | 89 | 61 |
| 105 | 0 | 6 | 31 | 50 | 56 | 31 |
| 115 | 0 | 0 | 13 | 27 | 32 | 14 |
| 125 | 0 | 0 | 2 | 11 | 14 | 5 |
| 135 | 0 | 0 | 0 | 1 | 3 | 1 |

NOTE: All Values Have ±7% Tolerance

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