# LW14 smartengine | wtec Series

## Architectural Linear Ambient LED Luminaire



4"

4 -11/16"

## Features:

- Network Powered Lighting via smartengine by wtec.
- Tunable White feature via smartengine's human centric smart lighting.
- Shallow form linear ambient LED luminaire.
- Larger-scale rounded profile acrylic diffuser evenly surrounds the LED light source enabling a very wide and near-perfect light distribution.
- Compact design complies with all ADA requirements for public areas.
- Custom formulated high diffusion acrylic material allows for maximum light transmission while eliminating pixilation and hot spots.
- Optional integral side reflectors add both function and architectural contour.
- Nominal 4Ft., or 8Ft. long modules.
- Digital LED technology provides high efficacy and energy efficiency.
- Multiple power and light levels are offered as standard to allow meeting design and energy needs per application. Custom factory set levels available on request.
- Lumen maintenance; Reported L70 (hours) & L80 (hours) > 60,000.
- CRI greater than 80.
- Fixture lumens per watt ratios up to 149.
- American Made.

Made in USA

DELIVERING UP TO
**149**
LUMENS PER WATT

tunable WHITE
27K
65K

Fixture Type:

Job Information:

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NETWORK POWERED LIGHTING

## MERCURY LIGHTING PRODUCTS CO. INC.

**Optional**

| | | | | | | | HTA | |
|---|---|---|---|---|---|---|---|---|
| **SERIES** | **NOMINAL LENGTH (FT)** | **DRIVE CURRENT** | **LUMEN OUTPUT** | **NUMBER OF CHANNELS** | **COLOR TEMP** | **DIFFUSER** | **SIDE REFLECTORS** | |

### SERIES
**LW14** Architectural Linear Ambient LED Luminaire

### NOMINAL LENGTH (FT)
**4** 45" Length
**8** 96" Length

### DRIVE CURRENT
45"L
**350**
**500**
**700**
**1000**
**1400**

96"L
**500**
**700**
**1000**
**1400**

**XXXX** Custom Lumen Package. Contact Factory.

### LUMEN OUTPUT
45"L
**2230L / 17W**
**3150L / 23W**
**4330L / 33W**
**6300L / 46W**
**8660L / 66W**

96"L
**3210L / 22W**
**4460L / 31W**
**6300L / 46W**
**8660L / 66W**

**XXXX** Custom Lumen Package. Contact Factory.

### NUMBER OF CHANNELS
45"L
**1 CH**
**1 CH**
**1 CH**
**2 CH**
**2 CH**

96"L
**1 CH**
**1 CH**
**2 CH**
**2 CH**

### COLOR TEMP
**30K**
**35K**
**40K**
**50K** Upon Request
**TW** 27K-65K

### DIFFUSER
**HTA** High Transmission Acrylic

### SIDE REFLECTORS
**SR** Symmetric Function Set of 2 Side Reflectors
**AR** Asymmetric Function 1 Side Reflector
**SRA** Symmetric Function Aperture Reflectors

## LED Modules
- High performance linear configured LED module boards.
- Each board consists of multiple mid-power, high efficacy LEDs in a precise layout eliminating the need for supplemental heat sinking.
- The boards produce an even and diffuse light which maximizes optical efficiency.
- Color temperatues available: 3000K, 3500K and 4000K.
- Upon request: 5000K.

## smartengine
- Network Powered Lighting delivers 18-48V and 150-700mA to power control light fixtures from a central smartengine device.
- No driver, node or active component at the fixture level.
- Factory or field programmable for custom drive currents offering desired lumen-per-foot performance.
- Integrated smartsensor or an RJ45 whip for external smartsensor.
- Smartsensor provides temperature, motion, light level, energy consumption and optimal BLE.
- Each channel will require a home run back to the smartengine.

## Emergency Lighting- Optional
- smartengine is UL924 Listed.

## Tunable White Option
- Field tunable range 2700K through 6500K.
- 80 CRI.

## LED Lumen Package
- Cataloged standard lumen packages. See attached chart for full details.
- Custom lumen packages pre-set are optional with programmable drivers only. Contact factory for details.

## Housing
- Fabricated from heavy gauge code grade cold rolled steel with a white polyester powder coating finish for long lasting durability.
- Housing ends are welded into place.
- Sufficient electrical kockouts are provided on the housing back and ends.

## Reflector Options
- Side reflectors are factory installed or can be field installed to the housing.
- May be used individually for one-side asymmetric function or in pairs for dual-side symmetric function.
- Aperature option; a series of architectural aperatures allows a segment of up lighting.

## Diffuser
- Larger-scale rounded profile design.
- Extruded from custom formulated high transmission acrylic material.
- Linear ribbing for high LED performance.

## Installations
- May be installed in any direction, individually or in continuous run applications.
- May be surface mounted or suspended.
- End knockouts for surface conduit entry.

## Certificate of Safety Compliance and Listings
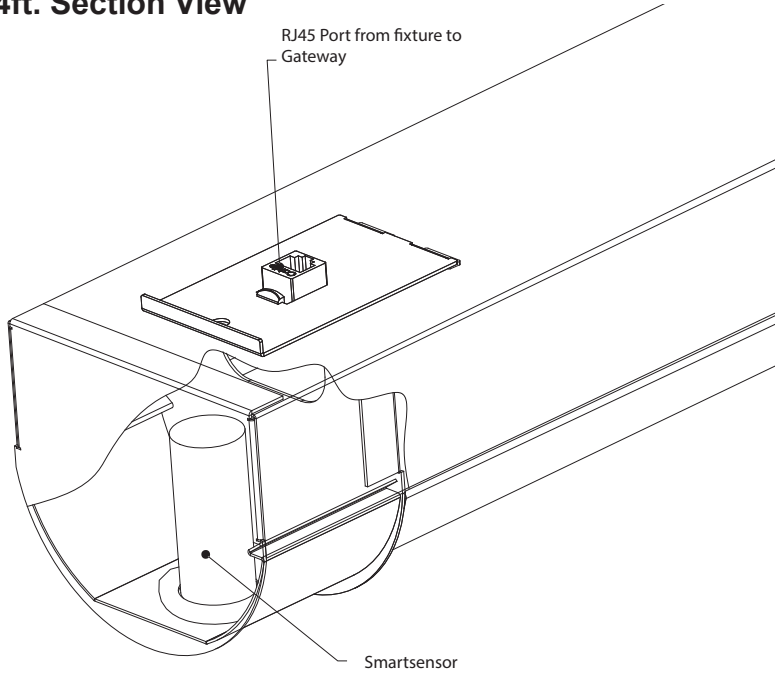- Luminaire: UL and CUL listed 1598 and bears their label. Suitable for damp locations.

## Warranty
- 5-year limited warranty is standard. Special 10-year warranty available on a job-to-job basis. Complete LED warranty terms avaialble at www.mercltg.com.
- Actual performance may differ as a result of end-user environment and application.
- Most LED luminaires are suitable to operate in ambient temperatures from -20C ( -4F) to 25C (77F).
- The following exclusions apply: Luminaires with standby lighting options or wireless control options. Consult Factory.
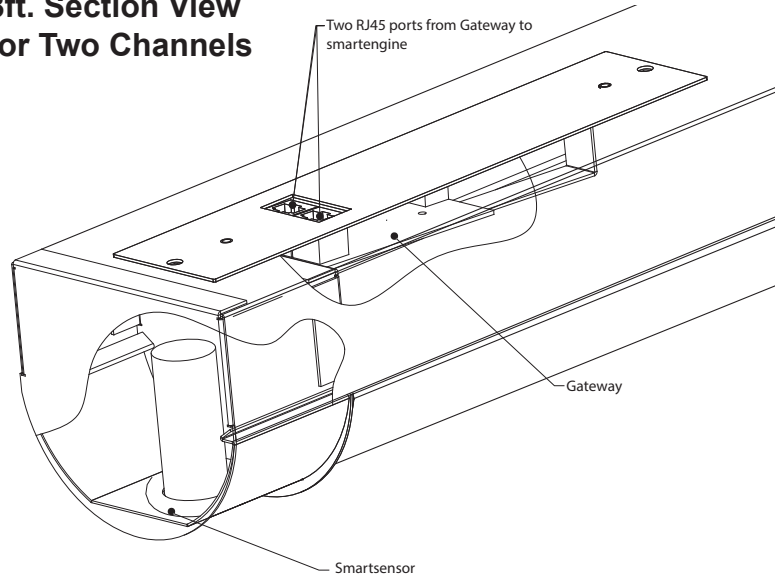- LM-79 testing was measured under a controlled 25C (77F) ambient operating temperature.

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## 4ft. Section View

RJ45 Port from fixture to Gateway

Smartsensor

## 8ft. Section View for Two Channels

Two RJ45 ports from Gateway to smartengine

Gateway

Smartsensor

## Lumen Package

| SERIES | NOMINAL LENGTH (FT) | NOMINAL LUMEN PACKAGE | COLOR | FIXTURE POWER (W) | DELIVERED LUMENS | FIXTURE LPW |
|---|---|---|---|---|---|---|
| LW14 | 4 | | | | | |
| | | 2230 | 3000 | 17 | 2165 | 129 |
| | | 2230 | 3500 | 17 | 2232 | 133 |
| | | 2230 | 4000 | 17 | 2277 | 136 |
| | | 2230 | 5000 | 17 | 2299 | 137 |
| | | 3150 | 3000 | 23 | 3053 | 134 |
| | | 3150 | 3500 | 23 | 3147 | 139 |
| | | 3150 | 4000 | 23 | 3210 | 141 |
| | | 3150 | 5000 | 23 | 3241 | 143 |
| | | 4330 | 3000 | 33 | 4198 | 130 |
| | | 4330 | 3500 | 33 | 4328 | 134 |
| | | 4330 | 4000 | 33 | 4415 | 137 |
| | | 4330 | 5000 | 33 | 4458 | 138 |
| | | 6300 | 3000 | 46 | 6105 | 134 |
| | | 6300 | 3500 | 46 | 6294 | 139 |
| | | 6300 | 4000 | 46 | 6420 | 141 |
| | | 6300 | 5000 | 46 | 6483 | 143 |
| | | 8660 | 3000 | 66 | 8396 | 130 |
| | | 8660 | 3500 | 66 | 8656 | 134 |
| | | 8660 | 4000 | 66 | 8829 | 137 |
| | | 8660 | 5000 | 66 | 8916 | 138 |

| SERIES | NOMINAL LENGTH (FT) | NOMINAL LUMEN PACKAGE | COLOR | FIXTURE POWER (W) | DELIVERED LUMENS | FIXTURE LPW |
|---|---|---|---|---|---|---|
| LW14 | 8 | | | | | |
| | | 3210 | 3000 | 22 | 3114 | 142 |
| | | 3210 | 3500 | 22 | 3210 | 146 |
| | | 3210 | 4000 | 22 | 3274 | 149 |
| | | 3210 | 5000 | 22 | 3306 | 150 |
| | | 4460 | 3000 | 31 | 4430 | 140 |
| | | 4460 | 3500 | 31 | 4464 | 144 |
| | | 4460 | 4000 | 31 | 4553 | 147 |
| | | 4460 | 5000 | 31 | 4598 | 148 |
| | | 6300 | 3000 | 46 | 6105 | 134 |
| | | 6300 | 3500 | 46 | 6294 | 139 |
| | | 6300 | 4000 | 46 | 6420 | 141 |
| | | 6300 | 5000 | 46 | 6483 | 143 |
| | | 8660 | 3000 | 66 | 8396 | 130 |
| | | 8660 | 3500 | 66 | 8656 | 134 |
| | | 8660 | 4000 | 66 | 8829 | 137 |
| | | 8660 | 5000 | 66 | 8916 | 138 |

Actual wattage may differ by +/- 5% when operating between 120V-277 +/- 10%.

## Hanging Accessories

| Part # | Description |
|---|---|
| R5PF-100 | Round 5" power feed canopy, Hanging hardware, 100" long 1/16" cable. |
| R5-100 | Round 5" canopy, Hanging hardware, 100" long 1/16" cable. |
| R2-100 | Round 2" canopy, Hanging hardware, 100" long 1/16" cable. |
| S5PF-100 | Square 5" power feed canopy, Hanging hardware, 100" long 1/16" cable. |
| S5-100 | Square 5" canopy, Hanging hardware, 100" long 1/16" cable. |
| S2-100 | Square 2" canopy, Hanging hardware, 100" long 1/16" cable. |

| Part # | Description |
|---|---|
| VH-XX | "V" Hanger w/XX=48"L or 72"L Chain & "S" Hook |
| CPYS-1 | S-1 Single Stem 5" Dia. Canopy |
| STMXX | XX=12"L, 48"L Stem/ 3/8" IPS-5/8" OD |

Other cable lengths available.

## Photometrics

All photometric reports are available at mercltg.com.

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