

CATALOG #: \_\_\_\_\_

TYPE: \_\_\_\_\_

PROJECT: \_\_\_\_\_



**FEATURES**

- Support human-centric design with adaptive, individualized lighting using tunable white light
- Slim, low-profile suspended or surface mount fixture provides an architectural alternative to standard wrap-around fixtures
- Round or square profile provides design choices for a variety of applications
- Quality, frosted, extruded acrylic lens snaps securely in place to provide gentle diffused illumination
- Slim end plates are designed to conform to lens shape and prevent unsightly light leaks
- Internal, self-aligning joining method ensures straight rows
- Made Right Here® in the USA

**SPECIFICATIONS**

- HOUSING** – 20-gauge die-formed C.R.S.
- SHIELDING** – Frosted, matte acrylic, round or square profile.
- FINISH** – Textured matte white polyester TGIC powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- ELECTRICAL** – High-quality mid-power LED board. L70 > 50,000 hours per IES TM-21. Tunable White products use LEDs of multiple CCTs and may produce a perceptibly different shade of white from single-CCT products at the same CCT. All CCTs are within 3 MacAdam ellipses. See fixture performance data for lumen maintenance.
- MOUNTING** – Surface (ceiling or wall) or suspended (hanging hardware required)
- LISTINGS** –
  - cCSAus certified as luminaire suitable for dry or damp locations.
  - Complies with the Buy American Act and other federal regulations. Request certification at [hew.com/baa](http://hew.com/baa).
- WARRANTY** – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty)

**ORDERING EXAMPLE: LLM - 4 - L10/8TW - S - SQ - ACF/D48 - OPTIONS - DIM - UNV**

**ORDERING INFO**

| SERIES   | NOMINAL LENGTH <sup>[1]</sup>   | LUMENS <sup>[2]</sup> | CRI                 | CCT                             |
|--|---|-----------------------|---------------------|---------------------------------|
| LLM  | Stand-alone: 2', 4', 6' & 8' nominal lengths, fixture ships assembled.<br>Example: 4 = 4' | L10 1,000lm           | 8 80                | TW Tunable white (3000K-5000K)  |
|  |   | L15 1,500lm           | 9 90 <sup>[3]</sup> | TW2 Tunable white (2700K-6500K) |
|  | Row-mount: Lengths specified in 24" increments<br>Example: 12 = 12'                       |                       |                     |                                 |
| <b>Product Builder</b><br>Simplify ordering & layout design with the Williams Linear Product Builder at <a href="http://hew.com">hew.com</a> |   |                       |                     |                                 |

| MOUNTING TYPE | SHIELDING                 | MOUNTING  |                     |        |
|---------------|---------------------------|---|---------------------|--------|
| S Surface     | RD Round frosted acrylic  | AIRCRAFT CABLES (EXAMPLE: ACF/D48) <sup>[4]</sup> |                     |        |
| P Suspended   | SQ Square frosted acrylic | Prefix  | Type                | Length |
|               |                           | ACF/ Feeder                                       | D 1" grid & hardpan | 24 24" |
|               |                           | ACJ/ Joiner                                       | N 9/16" grid        | 48 48" |
|               |                           | S Slot grid                                       |                     | 96 96" |

| OPTIONS   | CONTROL <sup>[5]</sup>  | VOLTAGE              |
|---|---|----------------------|
| See page 3 for FINISH OPTIONS.  | DALI Driver prewired for DALI applications  | 120 120V<br>277 277V |
| EM/10WLP Low profile 10-watt emergency battery <sup>[6]</sup>   | DIM Dimming driver with (1) 0-10V signal to control dimming and (1) 0-10V signal to control CCT | UNV 120-277V         |
| EM/10WRM Remote mount 10-watt emergency battery <sup>[7]</sup>  |   |                      |
| EM/12WRM Remote mount 12-watt emergency battery <sup>[8]</sup>  | DMX Driver prewired for DMX applications  |                      |
| (L___) Additional lower lumen packages available. Example: 800 nominal lumens = LLM-4-L10/8TW-(L8) <sup>[9]</sup> | PSQ Lutron T-Series 2-channel tunable white 1%  |                      |
| PS/120 Pull switch, single circuit <sup>[10]</sup>  |   |                      |
| WRS/120 White rocker switch <sup>[11]</sup>   |   |                      |
| 45AMB (2) 45° adjustable mounting brackets <sup>[12]</sup>  |   |                      |

**NOTES**

- 8' length ships with (2) 4' lenses.
- Lumens per foot output based on 80 CRI/4000K CCT. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see Options.
- Extended lead times may apply. Consult factory for availability.
- Specify with P Mounting Type only. See page 3 for MOUNTING DETAILS.
- See page 2 for CONTROL DETAILS.
- Available in 4' and 8' lengths only.
- See page 3 for MOUNTING DETAILS.
- Not available when CEC regulations are required. See page 3 for MOUNTING DETAILS.
- (L5) lumen package minimum. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
- 120V only. Surface mount only.
- 120V only. Surface mount only.
- Cord recommended, ships separately. Field-adjustable up and down in 7-1/2° increments.



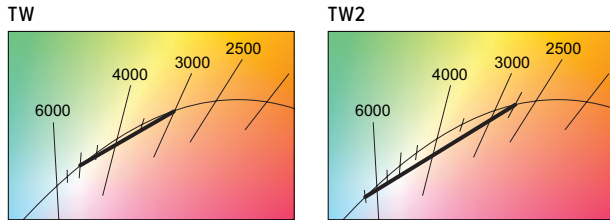
**FIXTURE PERFORMANCE DATA**

|     | PER FOOT         |         |                 |         |         | LUMEN MAINTENANCE <sup>(1)</sup> |        |        |        |
|-----|------------------|---------|-----------------|---------|---------|----------------------------------|--------|--------|--------|
|     | DELIVERED LUMENS |         | EFFICACY (lm/W) |         | WATTAGE | L70                              | L80    | L85    | L90    |
|     | RD LENS          | SQ LENS | RD LENS         | SQ LENS |         |                                  |        |        |        |
| L10 | 1007             | 1028    | 118             | 121     | 8.5     | >54000                           | >37000 | >26000 | >16000 |
| L15 | 1462             | 1492    | 113             | 116     | 12.9    | >54000                           | >37000 | >26000 | >16000 |

- <sup>1</sup> Predicted lumen maintenance calculated in accordance with IES TM-21 per Energy Star (R) TM-21 Calculator rev. 02.08.16.
- Photometrics tested in accordance with IESNA LM-79. Results based on 80 CRI/4000K CCT, average wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
  - To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
  - Use multiplier table to calculate additional options.

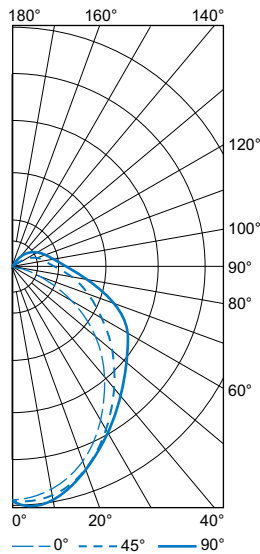
**MULTIPLIER TABLE**

|        | COLOR TEMPERATURE |        |         |        |         |
|--------|-------------------|--------|---------|--------|---------|
|        | CCT               | TW     |         | TW2    |         |
|        |                   | LUMENS | WATTAGE | LUMENS | WATTAGE |
| 80 CRI | 2700K             | -      | -       | 0.93   | 1.02    |
|        | 3000K             | 0.95   | 1.04    | 0.95   | 1.01    |
|        | 3500K             | 0.98   | 1.02    | 0.98   | 1.00    |
|        | 4000K             | 1.00   | 1.00    | 1.00   | 1.00    |
|        | 5000K             | 0.96   | 1.04    | 1.02   | 1.00    |
| 6500K  | -                 | -      | 1.01    | 1.04   |         |
| 90 CRI | 2700K             | -      | -       | 0.81   | 1.02    |
|        | 3000K             | 0.83   | 1.04    | 0.83   | 1.01    |
|        | 3500K             | 0.86   | 1.02    | 0.86   | 1.00    |
|        | 4000K             | 0.88   | 1.00    | 0.88   | 1.00    |
|        | 5000K             | 0.84   | 1.04    | 0.89   | 1.00    |
|        | 6500K             | -      | -       | 0.88   | 1.04    |



**PHOTOMETRY**

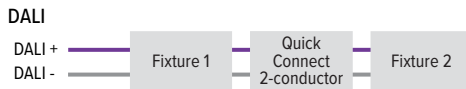
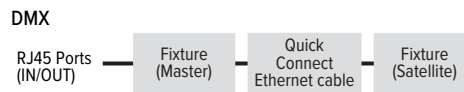
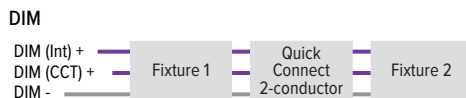
LLM-4-L10/8TW-S-SQ-DALI Total Luminaire Output: 4010 lumens; 32 Watts | Efficacy: 125 lm/W | 80 CRI; 4000K CCT



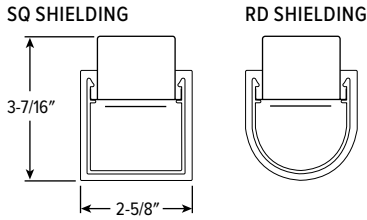
| VERTICAL ANGLE | HORIZONTAL ANGLE |      |      | ZONAL LUMENS |
|----------------|------------------|------|------|--------------|
|                | 0°               | 45°  | 90°  |              |
| 0              | 1223             | 1223 | 1223 |              |
| 5              | 1228             | 1234 | 1237 | 117          |
| 15             | 1133             | 1151 | 1157 | 326          |
| 25             | 978              | 1014 | 1029 | 467          |
| 35             | 790              | 857  | 905  | 531          |
| 45             | 565              | 691  | 796  | 532          |
| 55             | 372              | 551  | 699  | 490          |
| 65             | 224              | 438  | 598  | 423          |
| 75             | 107              | 322  | 453  | 326          |
| 85             | 31               | 234  | 337  | 229          |
| 90             | 5                | 177  | 256  |              |
| 95             | 0                | 169  | 237  | 158          |
| 105            | 0                | 137  | 184  | 125          |
| 115            | 0                | 112  | 151  | 96           |
| 125            | 0                | 92   | 129  | 73           |
| 135            | 0                | 75   | 105  | 52           |
| 145            | 0                | 66   | 92   | 36           |
| 155            | 0                | 49   | 65   | 20           |
| 165            | 0                | 36   | 42   | 8            |
| 175            | 0                | 13   | 25   | 1            |
| 180            | 0                | 0    | 0    |              |

| LUMEN SUMMARY | ZONE     | LUMENS | % FIXTURE |
|---------------|----------|--------|-----------|
|               | 0 - 30   | 909    | 23        |
|               | 0 - 40   | 1441   | 36        |
|               | 0 - 60   | 2462   | 61        |
|               | 0 - 90   | 3440   | 86        |
|               | 90 - 180 | 570    | 14        |
|               | 0 - 180  | 4010   | 100       |

**CONTROL DETAILS**

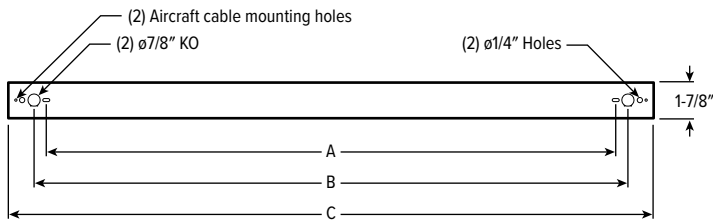


**CROSS SECTIONS**



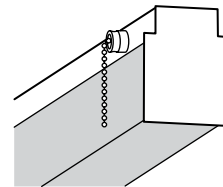
**FIXTURE DETAILS**

**BACKVIEW**

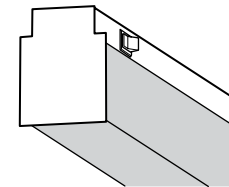


|    | SURFACE MOUNT (A) | 7/8" KOs (B) | ACTUAL LENGTH (C) |
|----|-------------------|--------------|-------------------|
| 2' | 19-1/16"          | 20-1/2"      | 24-1/4"           |
| 4' | 41-3/16"          | 42-5/8"      | 46-3/8"           |
| 6' | 63-7/8"           | 65-3/8"      | 69-1/16"          |
| 8' | 87-5/16"          | 89-1/16"     | 92-13/16"         |

**PS/120 OPTION**

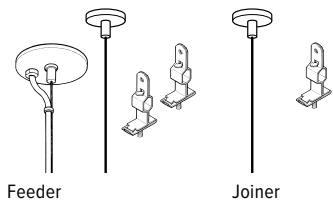


**WRS/120 OPTION**



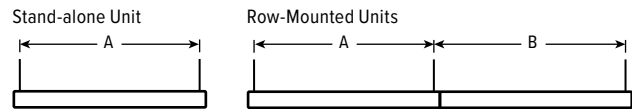
**MOUNTING DETAILS**

**SUSPENDED MOUNT STANDARD HARDWARE (Grid and Hardpan)**



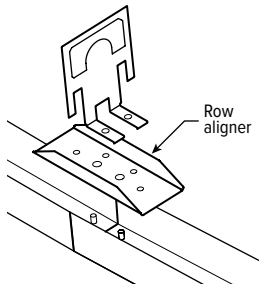
- Fixtures are provided with adjustable length aircraft cables and mounting hardware, must specify.
- Electrical supply is brought into the feeder fixture, either as part of a row or as a stand-alone unit. Joiner fixtures complete the row.
- The feeder kits are standard with a 5" canopy to cover the junction box and a 2" canopy at the non-feed point. No J-box is required at non-feed points.

**CENTER-TO-CENTER SUSPENDED MOUNTING CABLE**

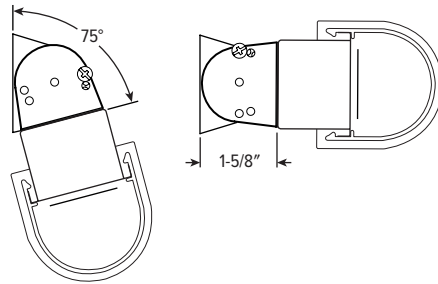


|    | CABLE MOUNT |          |
|----|-------------|----------|
|    | A           | B        |
| 2' | 22-1/4"     | 24-1/4"  |
| 4' | 44-3/8"     | 46-3/8"  |
| 6' | 67-1/16"    | 69-1/16" |
| 8' | 90-13/16"   | 92-3/4"  |

**ROW ALIGNER**

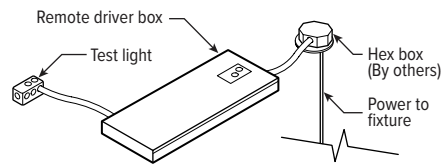


**45AMB**

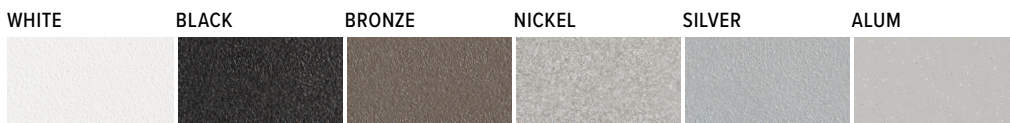


**REMOTE MOUNT BATTERY**

Max remote distance 50'.



**FINISH OPTIONS**



For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require two sample swatches, minimum 1" square.