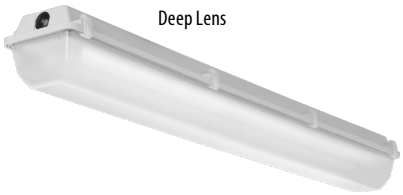
LITHONIA LIGHTING®

| Catalog Number | |
|---|---|
| Notes | |
| Type | |

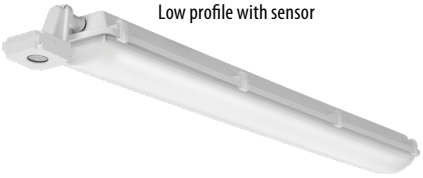
**Low-Profile Enclosed and Gasketed Industrial**

# FEM LED

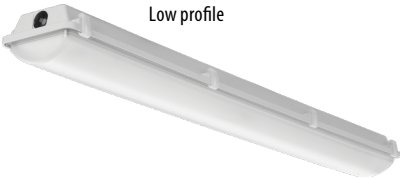
SURFACE/ SUSPENDED/WALL MOUNT



Deep Lens



Low profile with sensor



Low profile

## FEATURES & SPECIFICATIONS

**INTENDED USE** — A general purpose and energy-efficient surface-mounted or suspended LED fixture, suitable for wet, damp and/or cold locations. For vapor-tight demanding environments where moisture or dust is a concern and where relatively low fixture mounting heights and wide fixture spacing are common. Not for use or installation in direct outdoor sunlight. Must be installed under canopy or covered ceiling. For direct sunlight installations, please refer to the FEX product family. Typical applications include industrial facilities, parking garages, retail malls, multi-purpose rooms, garden centers, and food processing. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate. Click here for Acrylic-Polycarbonate Compatibility table for suitable use.**

**Certain airborne contaminants may adversely affect the functioning of LEDs and other electronic components, depending on various factors such as concentrations of the contaminants, ventilation, and temperature at the end-user location. Click here for a list of substances that may not be suitable for interaction with LEDs and other electronic components.**

**CONSTRUCTION** — One-piece 5VA fiberglass housing with integral perimeter channel utilizing continuous poured-in-place NEMA 4X gasket. Approved for through wiring. Captive polymeric latches are standard. Stainless steel latches (#316) available as an option for food processing or more demanding applications.

Power connection is easily accomplished through pre-drilled holes.

**OPTICS** — Injection molded, acrylic lens (.080" thick) provides high impact-resistance comparable to 100% DR. A UV stabilized polycarbonate diffuser is available (.080" thick) in clear or frosted for additional impact strength where vandal protection is desired.

Expected service life of 60,000 hours at 80% lumen maintenance (L80); predicted life of more than 100,000 hours.

**ELECTRICAL** — Utilizes high-efficiency LEDs mounted to core circuit boards. High-efficiency drivers operate 120-277 (MVOLT) and 347-480 (HVOLT) offered with 0-10 volt dimming, dims to 10%. Standard Luminaire Surge Protection Level: 6kV/3kA Surge Rated per ANSI C82.77-5-2015.

**INSTALLATION** — A pair of stainless steel surface mount brackets (SMB) are included (unless another mounting option is chosen) allowing for surface (ceiling) or suspension mount applications using included bail with aircraft cable or chain. Optional pair of dual pendant mount brackets (DPMB) are available for surface (ceiling) or suspension mount applications using either 3/8" threaded rod or included bail with aircraft cable or chain. Optional pair of angle mounting brackets (ANGBKT) for wall mount applications.

**LISTINGS** — CSA Certified to UL and C-UL Standards. Suitable for wet location. IP65,IP66, IP67 rated. NSF Splash Zone 2 and Non-Food Zone rated. NEMA 4X rated. Sensors maintain IP65 and IP66 only. See chart on page 5 for Ambient Temperatures.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

**BUY AMERICAN ACT** — Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations.
Please refer to www.acuitybrands.com/buy-american for additional information.

**WARRANTY** — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

**NOTE**: Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.
Specifications subject to change without notice.

***Stock configurations are offered for shorter lead times:***

| Standard Part Number | Stock Part Number |
|---|---|
| FEM L48 4000LM LPAFL MD MVOLT GZ10 40K 80CRI | **FEM L48 4L MVOLT** |
| FEM L48 4000LM LPAFL MD MVOLT GZ10 50K 80CRI | **FEM L48 4L MVOLT 5K** |

### A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks marked by a shaded background*

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

A+ Capable options indicated by this color background.

## ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

**Example:** FEM L48 4000LM IMAFL WD MVOLT GZ10 40K 80CRI

| Series | Length | Nominal Lumens | Diffuser | Distribution | Voltage | Driver | Color temperature | CRI |
|---|---|---|---|---|---|---|---|---|
| FEM | L24 24" ‡ | 2000LM 2,000 lumens<br>3000LM 3,000 lumens<br>4000LM 4,000 lumens<br>6000LM 6,000 lumens | IMAFL Acrylic, lineal ribbed frosted lens<br>IMACD Acrylic, clear deep lens<br>IMAFD Acrylic, deep frosted lens<br>LPAFL Acrylic, low profile frosted lens<br>LPACL Acrylic, low profile clear lens<br>LPPCL Polycarbonate, low profile clear lens<br>LPPFL Polycarbonate, low profile frosted lens | MD Medium<br>WD Wide<br>PGD Parking garage | MVOLT 120-277V<br>HVOLT 347-480V ‡<br>120 120V<br>277 277V<br>347 347V<br>480 480V | GZ10 0 - 10V dimming | 30K 3000K<br>35K 3500K<br>40K 4000K<br>50K 5000K | 80CRI 80 CRI<br>90CRI 90 CRI |
| | L48 48" ‡ | 3000LM 3,000 lumens<br>4000LM 4,000 lumens<br>6000LM 6,000 lumens<br>8000LM 8,000 lumens<br>10000LM 10,000 lumens<br>12000LM 12,000 lumens | | | | | | |
| | L96 96" ‡ | 9000LM 9,000 lumens<br>12000LM 12,000 lumens<br>15000LM 15,000 lumens<br>18000LM 18,000 lumens<br>20000LM 20,000 lumens<br>24000LM 24,000 lumens | | | | | | |

## Options

Emergency:

| | |
|---|---|
| E10WMCP | EM Self-diagnostics battery pack, MVOLT, 10W, Constant Power Certified in the California Title 20 Modernized Appliance Efficiency Database (MAEDBS) ‡ |
| BE6WCP | Cold Weather EM battery pack, 120/277V, 6W, Constant Power Certified in the California Title 20 Modernized Appliance Efficiency Database (MAEDBS) ‡ |
| BGTD | Generator transfer device |

Other Options:

| | |
|---|---|
| ANGBKT | Angle bracket shipped with fixture ‡ |
| BAA | Buy America(n) Act Compliant |
| DPMB | Dual pendant mounting bracket ‡ |
| SPD | Surge protection device, additional 10kV/6kA |
| STSL | Stainless steel latches |
| TRS | Tamper Resistant Torx® T10 screws |
| WLF | Wet location fitting (two outboard, top (L24 - 20 inches off-center, L48 - 48 inches off-center, L96 - 95.7 inches off-center) ‡ |
| WLFEND | Wet location fitting (one end) ‡ |
| WLFEND2 | Wet location fitting (both ends) ‡ |
| WLFPMP | Wet location pendant monopoint ‡ |

Cord Sets: ‡

| | |
|---|---|
| CPSB16YWLBH | Brad Harrsion Mini-Change® cordset with straight blade plug, 16 gauge, 3 conductors, 6ft, yellow ‡ |
| CPSB16YWL12FTBH | Brad Harrsion Mini-Change® cordset with straight blade plug, 16 gauge, 3 conductors, 12ft, yellow ‡ |
| CRSB16YWLBH | Brad Harrison Mini-Change® receptacle ‡ |
| CNP16WWL | Cord only (no plug), 16 gauge, 3 conductors, white, 6ft, wet location ‡ |
| CNP16WWL12FT | Cord only (no plug), 16 gauge, 3 conductors, white, 6ft, wet location ‡ |
| CNP164CWWL | Cord only (no plug), 16 gauge, 4 conductors, white, 6ft, wet location (for use when unswitched circuit is required for battery pack) ‡ |

Individual Controls: ‡

| | |
|---|---|
| SBOR10 | 360° Low mount sensor, (8-15' mounting heights), outdoor PIR, ON/OFF occupancy (LINK) (formerly MSI10NWL) |
| SBOR10 HL 3V | 360° Low mount sensor, (8-15' mounting heights), outdoor PIR, occupancy controlled dimming (bi-level) (LINK) (formerly MSI102L3VWL) |
| SBOR10 P | 360° Low mount sensor, (8-15' mounting heights), outdoor PIR, ON/OFF photocell (LINK) (formerly MSI10NWL DSCNWL) |

nLight Wireless: ‡

| | |
|---|---|
| NLTAIR2 RSBOR10 | nLight® Air Generation 2 enabled, 360° low mount sensor, (8-15' heights) (LINK) |
| NLTAIR2 RIO | nLight® Air Generation 2 enabled, fixture embedded network interface, 0-10V dimming output (LINK) |

NOTE: ‡ indicates option chosen has ordering restrictions. Please reference ordering restrictions chart, page 3. Options are sorted alphanumerically.

## Accessories: *Order as separate catalog number.*

| | |
|---|---|
| MHCH 36 | 3 foot (36 inches) jack chain (pair) |
| MHHK120 | 10 foot (120 inches) single leg air craft cable (ships as pair) |
| MHHK120SS | 10 foot (120 inches) single leg air craft cable, stainless steel (ships as pair) |
| RK1 T10BIT W/PIN U | Hex-base driver bit, Torx TX10, for tamper resistant screws with center reject pin |
| FEMDPMB | Dual pendant mounting bracket (ships as a pair) ‡ |
| FEMANGBKT | Angle bracket (ships as pair) ‡ |
| FEMSMB | Surface mount bracket (ships as pair) ‡ |

**See Accessories and ordering restrictions on next page.**



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| ‡ Option Value Ordering Restrictions | |
|---|---|
| **Option value** | **Restriction** |
| ANGBKT, FEMANGBKT | For wall mount applications. If mounted in an upward orientation, fixture will be damp location listed only. |
| BE6WCP | Utilizes Bodine BSL36 Cold-Pak emergency driver. Not available with L24 length.<br>Order with CNP164CWWL when unswitched hot is required for battery. Not available with 347V,480V,HVOLT. |
| CNP16WWL, CNP16WWL12FT | Not available with BE6WCP or E10WMCP. |
| CNP164CWWL | Available with BE6WCP or E10WMCP only. **Not NEMA4X rated**. |
| Cord Sets | **Not NEMA4X rated**. |
| CPSB16YWLBH, CPSB16YWL12FTBH | Not available with BE6WCP or E10WMCP. |
| CRSB16YWLBH | Not available with BE6WCP or E10WMCP. |
| E10WMCP | Utilizes Power Sentry, PS1055MCP battery pack. Order with CNP164CWWL when unswitched hot is required for battery. Not available with 347V,480V,HVOLT. |
| DPMB, FEMDPMB | For surface (ceiling) or suspension mount applications using either 3/8" threaded rod or included bail with aircraft cable or chain. |
| FEMSMB | Ships standard with fixture (unless another mounting option is chosen). For surface (ceiling) or suspension mount applications using included bail with aircraft cable or chain. |
| HVOLT | When ordered with L24, available with 6000LM only. When ordered with L48, not available with 3000LM or 4000LM. |
| Individual Controls | **Not NEMA4X rated. IP65 and IP66 rated.** |
| L24 | Not available with BE6WCP. |
| L48 | Not available with WLFPMP. |
| L96 | Not available with WLFPMP |
| nLight® Wireless | **Not NEMA4X rated. IP65 and IP66 rated.** |
| WLF | If cord is ordered, cord will exit from the end of the fixture. **Not NEMA4X rated**. |
| WLFEND | If cord is ordered, cord will exit from the end of the fixture. **Not NEMA4X rated**. Available with cord or sensor option. Choose only one. |
| WLFEND2 | Not available with sensor or cord options. **Not NEMA4X rated**. |
| WLFPMP | Available only with L24. **Not NEMA4X rated.** |

## MOUNTING OPTIONS

DPMB Option or FEMDPMB Accessory

Material: 304 Stainless Steel

pictured less bail wire

CS88L12/CS88R options



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## OPERATIONAL DATA (80 CRI*, MD**, MVOLT***)

| Length | Package | Input Wattage | CCT | Frosted Lens' Lumens (LPW) | | | | Clear Lens' Lumens (LPW) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | IMAFL | IMAFD | LPAFL | LPPFL | IMACD | LPACL | LPPCL |
| L24 | 2000LM | 13.4 | 30K | 1962 (147) | 2083 (156) | 2076 (155) | 1861 (139) | 2112 (158) | 2105 (158) | 1890 (142) |
| | | | 35K | 2002 (150) | 2126 (159) | 2118 (159) | 1899 (142) | 2155 (161) | 2147 (161) | 1929 (144) |
| | | | 40K | 2099 (157) | 2228 (167) | 2220 (166) | 1991 (149) | 2259 (169) | 2251 (169) | 2022 (151) |
| | | | 50K | 2122 (159) | 2252 (169) | 2244 (168) | 2013 (151) | 2284 (171) | 2276 (170) | 2044 (153) |
| | 3000LM | 19.9 | 30K | 2869 (144) | 3046 (153) | 3035 (153) | 2721 (137) | 3088 (155) | 3077 (155) | 2764 (139) |
| | | | 35K | 2927 (147) | 3108 (156) | 3096 (156) | 2777 (140) | 3151 (158) | 3139 (158) | 2820 (142) |
| | | | 40K | 3069 (154) | 3258 (164) | 3246 (163) | 2911 (146) | 3303 (166) | 3291 (166) | 2956 (149) |
| | | | 50K | 3102 (156) | 3293 (166) | 3281 (165) | 2942 (148) | 3339 (168) | 3327 (167) | 2988 (150) |
| | 4000LM | 26.0 | 30K | 3676 (142) | 3903 (150) | 3889 (150) | 3487 (134) | 3957 (152) | 3943 (152) | 3541 (136) |
| | | | 35K | 3751 (145) | 3982 (153) | 3968 (153) | 3558 (137) | 4037 (156) | 4023 (155) | 3613 (139) |
| | | | 40K | 3932 (152) | 4174 (161) | 4159 (160) | 3730 (144) | 4232 (163) | 4217 (162) | 3788 (146) |
| | | | 50K | 3975 (153) | 4219 (163) | 4204 (162) | 3770 (145) | 4278 (165) | 4263 (164) | 3829 (148) |
| | 6000LM | 39.2 | 30K | 5287 (135) | 5613 (143) | 5593 (143) | 5015 (128) | 5691 (145) | 5671 (145) | 5093 (130) |
| | | | 35K | 5395 (138) | 5727 (146) | 5707 (145) | 5117 (130) | 5806 (148) | 5786 (147) | 5196 (132) |
| | | | 40K | 5655 (144) | 6004 (153) | 5982 (153) | 5364 (137) | 6087 (155) | 6065 (155) | 5447 (139) |
| | | | 50K | 5717 (146) | 6069 (155) | 6047 (154) | 5422 (138) | 6153 (157) | 6131 (156) | 5506 (140) |
| L48 | 3000LM | 18.0 | 30K | 2689 (149) | 2855 (158) | 2844 (158) | 2551 (141) | 2894 (160) | 2884 (160) | 2590 (144) |
| | | | 35K | 2743 (152) | 2912 (161) | 2902 (161) | 2602 (144) | 2953 (164) | 2942 (163) | 2643 (146) |
| | | | 40K | 2876 (159) | 3053 (169) | 3042 (169) | 2728 (151) | 3095 (172) | 3084 (171) | 2770 (154) |
| | | | 50K | 2907 (161) | 3086 (171) | 3075 (170) | 2758 (153) | 3129 (173) | 3118 (173) | 2800 (155) |
| | 4000LM | 23.8 | 30K | 3543 (149) | 3762 (158) | 3748 (157) | 3361 (141) | 3814 (160) | 3800 (160) | 3413 (143) |
| | | | 35K | 3615 (152) | 3838 (161) | 3824 (161) | 3429 (144) | 3891 (163) | 3877 (163) | 3482 (146) |
| | | | 40K | 3790 (159) | 4023 (169) | 4009 (168) | 3595 (151) | 4079 (171) | 4064 (171) | 3650 (153) |
| | | | 50K | 3831 (161) | 4067 (171) | 4052 (170) | 3634 (153) | 4123 (173) | 4109 (173) | 3690 (155) |
| | 6000LM | 37.8 | 30K | 5284 (140) | 5609 (149) | 5589 (148) | 5012 (133) | 5687 (151) | 5667 (150) | 5090 (135) |
| | | | 35K | 5391 (143) | 5723 (152) | 5703 (151) | 5114 (135) | 5802 (154) | 5782 (153) | 5193 (138) |
| | | | 40K | 5651 (150) | 6000 (159) | 5978 (158) | 5361 (142) | 6083 (161) | 6061 (161) | 5444 (144) |
| | | | 50K | 5713 (151) | 6065 (161) | 6043 (160) | 5419 (144) | 6149 (163) | 6127 (162) | 5503 (146) |
| | 8000LM | 50.5 | 30K | 6952 (138) | 7380 (146) | 7354 (146) | 6594 (131) | 7482 (148) | 7456 (148) | 6696 (133) |
| | | | 35K | 7093 (141) | 7530 (149) | 7503 (149) | 6728 (133) | 7634 (151) | 7607 (151) | 6832 (135) |
| | | | 40K | 7435 (147) | 7894 (156) | 7865 (156) | 7053 (140) | 8003 (159) | 7975 (158) | 7162 (142) |
| | | | 50K | 7516 (149) | 7979 (158) | 7950 (158) | 7129 (141) | 8090 (160) | 8061 (160) | 7240 (144) |
| | 10000LM | 62.0 | 30K | 8646 (140) | 9179 (148) | 9146 (148) | 8201 (132) | 9306 (150) | 9273 (150) | 8328 (134) |
| | | | 35K | 8822 (142) | 9365 (151) | 9332 (151) | 8368 (135) | 9495 (153) | 9461 (153) | 8497 (137) |
| | | | 40K | 9248 (149) | 9817 (158) | 9782 (158) | 8772 (142) | 9953 (161) | 9918 (160) | 8908 (144) |
| | | | 50K | 9348 (151) | 9924 (160) | 9888 (160) | 8867 (143) | 10061 (162) | 10026 (162) | 9004 (145) |
| | 12000LM | 75.0 | 30K | 10406 (139) | 11047 (147) | 11007 (147) | 9871 (132) | 11200 (149) | 11160 (149) | 10024 (134) |
| | | | 35K | 10617 (141) | 11271 (150) | 11231 (150) | 10071 (134) | 11427 (152) | 11387 (152) | 10227 (136) |
| | | | 40K | 11130 (148) | 11816 (157) | 11773 (157) | 10557 (141) | 11979 (160) | 11937 (159) | 10721 (143) |
| | | | 50K | 11251 (150) | 11944 (159) | 11901 (159) | 10672 (142) | 12109 (161) | 12066 (161) | 10837 (144) |
| L96 | 9000LM | 53.4 | 30K | 7962 (149) | 8452 (158) | 8422 (158) | 7552 (141) | 8570 (160) | 8539 (160) | 7669 (144) |
| | | | 35K | 8124 (152) | 8624 (161) | 8593 (161) | 7706 (144) | 8743 (164) | 8713 (163) | 7825 (146) |
| | | | 40K | 8516 (159) | 9040 (169) | 9008 (169) | 8078 (151) | 9166 (172) | 9133 (171) | 8203 (154) |
| | | | 50K | 8608 (161) | 9138 (171) | 9106 (170) | 8165 (153) | 9265 (173) | 9232 (173) | 8292 (155) |
| | 12000LM | 75.5 | 30K | 10570 (140) | 11221 (149) | 11181 (148) | 10026 (133) | 11377 (151) | 11337 (150) | 10182 (135) |
| | | | 35K | 10785 (143) | 11449 (152) | 11408 (151) | 10230 (135) | 11608 (154) | 11567 (153) | 10388 (138) |
| | | | 40K | 11306 (150) | 12002 (159) | 11959 (158) | 10724 (142) | 12168 (161) | 12125 (161) | 10890 (144) |
| | | | 50K | 11428 (151) | 12132 (161) | 12089 (160) | 10840 (144) | 12300 (163) | 12257 (162) | 11008 (146) |
| | 15000LM | 94.3 | 30K | 13399 (142) | 14225 (151) | 14174 (150) | 12710 (135) | 14422 (153) | 14371 (152) | 12907 (137) |
| | | | 35K | 13671 (145) | 14513 (154) | 14461 (153) | 12968 (138) | 14714 (156) | 14662 (156) | 13169 (140) |
| | | | 40K | 14331 (152) | 15214 (161) | 15160 (161) | 13594 (144) | 15425 (164) | 15370 (163) | 13805 (146) |
| | | | 50K | 14487 (154) | 15379 (163) | 15324 (163) | 13741 (146) | 15592 (165) | 15537 (165) | 13954 (148) |
| | 18000LM | 103.4 | 30K | 15901 (154) | 16881 (163) | 16820 (163) | 15083 (146) | 17114 (165) | 17054 (165) | 15317 (148) |
| | | | 35K | 16224 (157) | 17223 (167) | 17161 (166) | 15389 (149) | 17462 (169) | 17400 (168) | 15627 (151) |
| | | | 40K | 17007 (164) | 18055 (175) | 17990 (174) | 16132 (156) | 18305 (177) | 18240 (176) | 16382 (158) |
| | | | 50K | 17192 (166) | 18251 (176) | 18185 (176) | 16307 (158) | 18503 (179) | 18438 (178) | 16560 (160) |
| | 20000LM | 125.5 | 30K | 17549 (140) | 18630 (148) | 18564 (148) | 16646 (133) | 18888 (150) | 18822 (150) | 16904 (135) |
| | | | 35K | 17906 (143) | 19008 (151) | 18940 (151) | 16984 (135) | 19272 (154) | 19204 (153) | 17247 (137) |
| | | | 40K | 18770 (150) | 19927 (159) | 19855 (158) | 17804 (142) | 20202 (161) | 20131 (160) | 18080 (144) |
| | | | 50K | 18974 (151) | 20143 (160) | 20070 (160) | 17997 (143) | 20421 (163) | 20349 (162) | 18276 (146) |
| | 24000LM | 149.5 | 30K | 21142 (141) | 22445 (150) | 22364 (150) | 20055 (134) | 22756 (152) | 22675 (152) | 20365 (136) |
| | | | 35K | 21571 (144) | 22900 (153) | 22818 (153) | 20461 (137) | 23217 (155) | 23135 (155) | 20779 (139) |
| | | | 40K | 22613 (151) | 24006 (161) | 23920 (160) | 21450 (143) | 24339 (163) | 24253 (162) | 21782 (146) |
| | | | 50K | 22858 (153) | 24266 (162) | 24179 (162) | 21682 (145) | 24602 (165) | 24516 (164) | 22018 (147) |

* For 90CRI, reduce lumen output by 17.1%
** For WD reduce output by 4.7%, PGD reduce output by 5.4%
*** For HVOLT use scale factor in HVOLT SCALE FACTOR TABLE


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## CSA LISTED AMBIENT RATING*

| | | Standard** (surface)" | Standard** (suspended)" | E10WMCP (surface) | E10WMCP (suspended) | BE6WCP (surface) | BE6WCP (suspended) |
|---|---|---|---|---|---|---|---|
| L24 | 2000LM | 35°C | 50°C | 5°C - 25°C | 5°C - 35°C | -20°C - 25°C | -20°C - 35°C |
| | 3000LM | 35°C | 50°C | 5°C - 25°C | 5°C - 35°C | -20°C - 25°C | -20°C - 35°C |
| | 4000LM | 35°C | 50°C | 5°C - 25°C | 5°C - 35°C | -20°C - 25°C | -20°C - 35°C |
| | 6000LM | 35°C | 50°C | 5°C - 25°C | 5°C - 35°C | -20°C - 25°C | -20°C - 35°C |
| L48 | 3000LM | 35°C | 50°C | 5°C - 25°C | 5°C - 35°C | -20°C - 25°C | -20°C - 35°C |
| | 4000LM | 35°C | 50°C | 5°C - 25°C | 5°C - 35°C | -20°C - 25°C | -20°C - 35°C |
| | 6000LM | 35°C | 50°C | 5°C - 25°C | 5°C - 35°C | -20°C - 25°C | -20°C - 35°C |
| | 8000LM | 35°C | 50°C | 5°C - 25°C | 5°C - 35°C | -20°C - 25°C | -20°C - 35°C |
| | 10000LM | 35°C | 50°C | 5°C - 25°C | 5°C - 35°C | -20°C - 25°C | -20°C - 35°C |
| | 12000LM | 35°C | 50°C | 5°C - 25°C | 5°C - 35°C | -20°C - 25°C | -20°C - 35°C |
| L96 | 9000LM | 35°C | 50°C | 5°C - 25°C | 5°C - 35°C | -20°C - 25°C | -20°C - 35°C |
| | 12000LM | 35°C | 50°C | 5°C - 25°C | 5°C - 35°C | -20°C - 25°C | -20°C - 35°C |
| | 15000LM | 35°C | 50°C | 5°C - 25°C | 5°C - 35°C | -20°C - 25°C | -20°C - 35°C |
| | 18000LM | 35°C | 50°C | 5°C - 25°C | 5°C - 35°C | -20°C - 25°C | -20°C - 35°C |
| | 20000LM | 35°C | 50°C | 5°C - 25°C | 5°C - 35°C | -20°C - 25°C | -20°C - 35°C |
| | 24000LM | 35°C | 50°C | 5°C - 25°C | 5°C - 35°C | -20°C - 25°C | -20°C - 35°C |

*Minimum Ambient is -30°C unless noted, when the fixture is suspended at least 12" from the ceiling.
**All options not specifically listed in this table are considered standard

## HVOLT SCALE FACTOR

| | Factor |
|---|---|
| 2000LM | 0.814 |
| 3000LM | 0.814 |
| 4000LM | 0.814 |
| 6000LM | 0.835 |
| 8000LM | 0.845 |
| 9000LM | 0.850 |
| 10000LM | 0.850 |
| 12000LM | 0.845 |
| 15000LM | 0.860 |
| 18000LM | 0.880 |
| 20000LM | 0.845 |
| 24000LM | 0.865 |

## CONFIGURATION WEIGHTS

| | Standard | w/ Sensor | w/ Battery |
|---|---|---|---|
| L24 | 8 | 9 | 9 |
| L48 | 11 | 12 | 12 |
| L96 | 23 | 24 | 24 |

## NUMBER OF BOARDS AND DRIVERS

| Lumen package | Fixture length | Number of boards | Number of drivers |
|---|---|---|---|
| 2000LM | L24 | 1 | 1 |
| 3000LM | | 1 | 1 |
| 4000LM | | 1 | 1 |
| 6000LM | | 1 | 1 |
| 3000LM | L48 | 2 | 1 |
| 4000LM | | 2 | 1 |
| 6000LM | | 2 | 1 |
| 8000LM | | 2 | 1 |
| 10000LM | | 2 | 1 |
| 12000LM | | 2 | 1 |
| 9000LM | L96 | 4 | 1 |
| 12000LM | | 4 | 2 |
| 15000LM | | 4 | 2 |
| 18000LM | | 4 | 2 |
| 20000LM | | 4 | 2 |
| 24000LM | | 4 | 2 |


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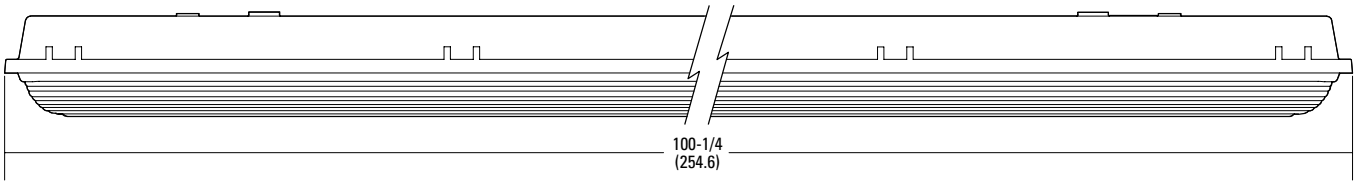
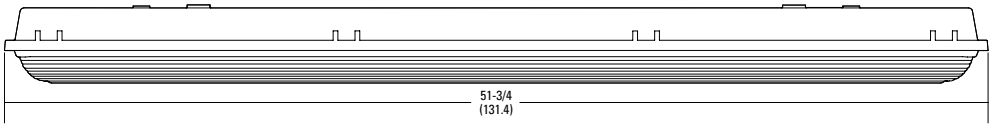
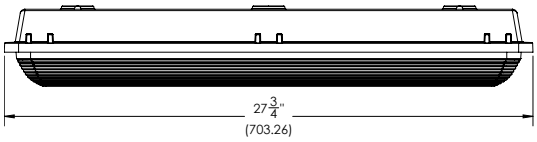
## DIMENSIONS

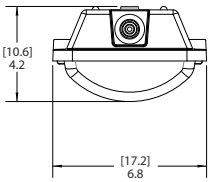
Specifications subject to change without notice.
All dimensions are inches (centimeters) unless otherwise indicated.

Weight (may vary with options or accessories)
FEM L48: 11.9 lbs (5.397kg)
FEM L96: 24.3 lbs (11.022kg)

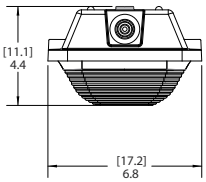


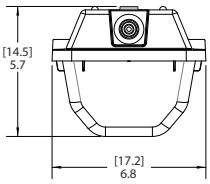




Diffuser Type:
LPAFL
LPACL
LPPFL
LPPCL




Diffuser Type:
IMAFL




Diffuser Type:
IMAFD
IMACD

## PHOTOMETRICS

See www.lithonia.com for photometry reports.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