

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. 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.

CONSTRUCTION — One-piece 5VA fiberglass housing with integral perimeter channel utilizing continuous poured-in-place NEMA 4X gasket. Approved as a wireway and 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 at each end populated with wet location fittings for maximum flexibility. Fixture easily mounts to ceilings and other solid structures, or can be suspended with chain, cable or rod using stainless steel mounting brackets (included).

OPTICS — Injection molded, acrylic lens (.080" thick) provides high impact-resistance comparable to 100% DR. For L48 Medium Distribution, 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 thru 277V, 347V and 480V offered with 0-10 volt dimming, allowing granular control when coupled with wireless networking controls. Integral 6kV/3kA surge protection, tested in accordance to IEEE/ANSI standards.

INSTALLATION — Fixture can be ceiling or suspended mounted. Pre-punched stainless steel mounting brackets are included (two per luminaire) for easy field-attachment of bolts, screws and other mounting hardware. A covered ceiling is not required to maintain wet location listing or IP rating.

LISTINGS — CSA certified to UL and C-UL standards. Listed for wet locations in ambient temps ranging from -35°C (-31°F) to 25°C (77°F) when fixture is surface mounted or up to 45°C (113°F) when fixture is suspended at least 6" from ceiling. IP65, IP66 and IP67 rated. NSF splash-zone 2 certified and meets FDA/USDA guidelines. Nema 4X rated lens and housing. 1500 PSI hose-down.
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 $\frac{www.designlights.org/QPL}{vertical possible} \ to confirm which versions are qualified.$

WARRANTY — 5-year limited warranty. Complete warranty terms located at: <u>www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx</u>

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

Catalog Number	
Notes	
Туре	

Low-Profile Enclosed and Gasketed Industrial















** 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® or XPoint™ Wireless control networks marked by a shaded background*

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

*See ordering tree for details

INDUSTRIAL FEM LED

FEM LED Low-Profile Enclosed and Gasketed



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	L96 96" ²	3000LM 3,000 lumens 4000LM 4,000 lumens 6000LM 6,000 lumens 8000LM 8,000 lumens 10000LM 10,000 lumens 12000LM 12,000 lumens 15000LM 15,000 lumens 18000LM 18,000 lumens 20000LM 20,000 lumens	IMAFL Acrylic, lineal ribbed frosted lens IMACD Acrylic, clear deep lens IMAFD Acrylic, deep frosted lens LPAFL Acrylic, low profile frosted lens ³ LPACL Acrylic, low profile clear lens ³ LPPCL Polycarbonate, low profile clear lens ³ LPPFL Polycarbonate, low profile frosted lens ³	MD Medium WD Wide ⁴	MVOLT MVOLT 120 120V 277 277V 347 347V ⁵ 480 480V ⁵	GZ10 0 - 10V dimming	30K 3000K 35K 3500K 40K 4000K 50K 5000K	80 CRI 80 CRI 90 CRI 90 CRI	

Options					
SF DF BSL520 BGTD SPD WLF WLFEND WLFEND2	Single fuse (available with 120, 277, 347) ⁶ Double Fusing (available with 347, 480V) ⁶ Bodine® emergency LED battery pack for -20°C and up ^{6,7} Generator transfer device ^{6,8} Surge protection device, additional 10kV/5kA ⁶ Wet location fitting (two outboard, top) Wet location fitting (one end) Wet location fitting (both ends)	CS88 CS88L12 CS88R CS89 CS89L12 TRS DPMB DL STSL	6' Brad Harrison 16/3 cord and straight blade plug set ⁶ 12' Brad Harrison 16/3 cord and straight blade plug set ⁶ Brad Harrison receptacle 6' white cord, 16/3, no plug, wet location 12' white cord, 16/3, no plug, wet location Tamper Resistant Torx®T10 screws Dual pendant mounting bracket Damp location Stainless steel latches	MSI10NWL MSI102L3VWL MSI10NWL DSCNWL MSI10XAWL DSCXAWL	Low mount 360° integral motion sensor, wet location, On/Off operation ⁶ Low mount 360° integral motion sensor, wet location, High/Low operation (bi-level) ⁶ Low mount 360° integral motion sensor, wet location, On/Off operation for motion sensing, override Off due to daylight ⁶ Xpoint wireless integral motion sensor, On/Off operation for motion sensing, override Off due to daylight ⁶
				XAD	XPoint™ wireless controller, 0-10V dimming ⁶

Accessories: Order as separate catalog number.									
MHCH 36 Jack chain 36" (pair)									
MHHK120 10' single leg air craft cable (ships as pair)									
MHHK120SS	10' single leg air craft cable, stainless steel (ships as pair)								
RK1 T10DRV	Torx® T10 screwdriver for TRS option								
FEMDPMB Dual pendant mounting bracket (ships as a pair)									

Notes

- 1 Available with 3000LM, 4000LM, 6000LM, 8000LM, and 10000LM lumen packages. Not available with WD when using low profile diffuser.
- 2 Available with 9000LM, 12000LM, 15000LM, 18000LM, and 20000LM. Not available with low profile diffuser options.
- $3\,$ Not available with L96. Not available with L48 when ordering WD option.
- 4 Not availabe with L48 when ordering low-profile lens options.
- $5 \quad \text{Utilizes step-down transformer. Not available with BGTD.} \\$
- 6 Must specify voltage.
- 7~ Not available with 347 or 480V. For use in ambient temperature -20 $^{\circ}\text{C}$ and up.
- 8 Available with 120V or 277V only. For use in ambient environments up to 25C. Not available with L48 when ordering 10000LM lumen package. Not available with L96 when ordering 18000LM or 20000LM lumen packages.



INDUSTRIAL:

OPERATIONAL DATA

		1	Wattage				Diffusers			
		Lumen packages	120v	277v	347v	480v	Acrylic Lineal Frosted (IMAFL)	Frosted (IMAFD, LPAFL, LPPFL)	Clear (IMACD, LPACL, LPPCL)	
		3000LM	23	23	24	25	2972	3032	3071	
	Delivered	4000LM	31	30	31	32	4019	4100	4153	
	Lumens at 30K	6000LM	45	44	46	47	5925	6044	6122	
	80CRI	8000LM	69	67	70	71	7593	7746	7845	
		10000LM	80	78	81	82	9781	9979	10107	
		3000LM	23	23	24	25	3039	3100	3140	
	Delivered	4000LM	31	30	31	32	4109	4192	4246	
L48 Medium	Lumens at 35K	6000LM	45	44	46	47	6057	6179	6258	
Distribution *test results reflect	80CRI	8000LM	69	67	70	71	7762	7918	8020	
less than 1% difference between		10000LM	80	78	81	82	9999	10201	10332	
acrylic (clear/deep/		3000LM	23	23	24	25	3086	3148	3189	
low profile) and polycarbonate (low	Delivered	4000LM	31	30	31	32	4173	4257	4312	
profile) lens	Lumens at 40K	6000LM	45	44	46	47	6151	6275	6356	
	80CRI	8000LM	69	67	70	71	7883	8042	8145	
		10000LM	80	78	81	82	10155	10360	10493	
		3000LM	23	23	24	25	3200	3264	3306	
	Delivered	4000LM	31	30	31	32	4326	4414	4470	
	Lumens at 50K	6000LM	45	44	46	47	6378	6506	6590	
	80CRI	8000LM	69	67	70	71	8173	8338	8445	
		10000LM	80	78	81	82	10529	10741	10879	

		Lumen	Wattage				Diffusers			
	packages	120v	277v	347v	480v	Acrylic Lineal Frosted (IMAFL)	Acrylic Frosted (IMAFD)	Acrylic Clear (IMACD)		
		9000LM	65	64	66	67	8718	8959	9072	
	Delivered	12000LM	88	86	89	90	11370	11685	11831	
	Lumens at 30K	15000LM	120	118	122	124	14263	14657	14841	
	80CRI	18000LM	145	141	146	148	16863	17330	17547	
		20000LM	160	156	162	164	19313	19847	20096	
		9000LM	65	64	66	67	8913	9159	9274	
	Delivered	12000LM	88	86	89	90	11624	11945	12095	
	Lumens at 35K	15000LM	120	118	122	124	14581	14984	15172	
	80CRI	18000LM	145	141	146	148	17239	17716	17938	
L96 Medium		20000LM	160	156	162	164	19743	20289	20544	
Distribution	Distribution	9000LM	65	64	66	67	9051	9302	9419	
	Delivered	12000LM	88	86	89	90	11805	12131	12284	
	Lumens at 40K	15000LM	120	118	122	124	14808	15218	15409	
	80CRI	18000LM	145	141	146	148	17507	17992	18218	
		20000LM	160	156	162	164	20051	20605	20864	
		9000LM	65	64	66	67	9385	9644	9765	
	Delivered	12000LM	88	86	89	90	12239	12578	12736	
	Lumens at 50K	15000LM	120	118	122	124	15353	15778	15976	
	80CRI	18000LM	145	141	146	148	18152	18654	18888	
		20000LM	160	156	162	164	20789	21364	21632	



INDUSTRIAL:

Weight (may vary with options or accessories) FEM L48: 11.9 lbs (5.397kg) **DIMENSIONS** Specifications subject to change without notice. FEM L96: 24.3 lbs (11.022kg) All dimensions are inches (centimeters) unless otherwise indicated. 100-1/4 (254.6) пп 51-3/4 (131.4) Diffuser Type: LPAFL Diffuser Type: IMAFL Diffuser Type: IMAFD LPACL IMACD LPPFL LPPCL

PHOTOMETRICS

INDUSTRIAL:

See www.lithonia.com for photometry reports.

