



CLEAN ROOM LED

MCR220 (2X4) SERIES (2X2 AVAILABLE)

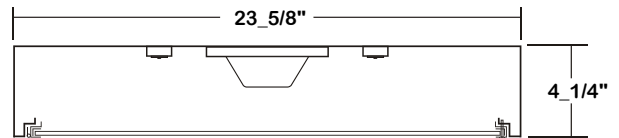
CLASS 100 CLEAN ROOM LUMINAIRE

DATE	
JOB	

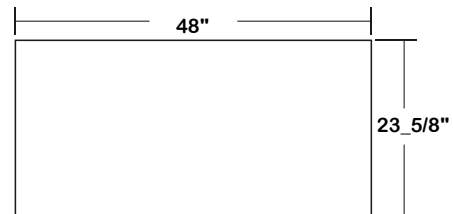
WWW.LALIGHTING.COM
626-454-8300

CLASS 100 SURFACE MOUNTED LED LUMINAIRE

DIMENSIONS



***No Unused Holes And KO's On Backplate.**



APPLICATIONS

- Clean Room, Sealed Ceiling Areas, Commercial

FEATURES

- 0-10V dimming driver standard
- Supports California Title 24 compliance

OPTIONS

- Wet location available (UL listed with sprinkler test)
- Full customization available upon request
- Additional lumen packages and color temperatures available
- Controls and sensors available
- Wireless control options available
- Variety of lenses available
- Emergency battery pack available
- Antimicrobial finished housing and door frame available
- Tamper proof screws available

SPECIFICATIONS

CONSTRUCTION

- Class 100 / ISO Class 5 equivalent
- 22 ga. cold rolled steel welded housing
- All parts fitted and sealed, no unused holes or knockouts
- 20 ga. cold rolled steel door frame secured by full length piano hinge and 2 captive screws
- Door frame and lens sealed with closed cell neoprene gasket

FINISH

- Baked white powder coated finish / welded and painted after fabrication / minimum reflectance 90%

OPTICAL

- Inverted clear prismatic acrylic lens (nominal 0.125) standard

ELECTRICAL

- High efficiency drivers coupled with long-life LEDs
- Service life greater than 50,000 hours (L70)
- Universal voltage 120V through 277V (347V / 480V available)
- Power Factor (PF) ≥ 0.9
- Total Harmonic Distortion (THD) $\leq 20\%$

LISTING

- UL USA and Canada listed / suitable for damp locations

WARRANTY

- 5-Year limited warranty standard. 10-Year limited warranty also available



Los Angeles Lighting Mfg. Co.

Contact Us
T: 626-454-8300 10141 Olney Street
F: 626-454-8399 El Monte, CA 91731
www.lalighting.com Made in the USA



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Revised: 07/10/23



ORDERING INFORMATION

EXAMPLE: MCR220-6-4L-FSW-PA2-BPL1.5-DRDM-UNV-2/840

SERIES	LED LUMEN PACKAGE	EFFICACY	NOMINAL LENGTH	FINISH	DOOR FRAME	OPTICAL	MECHANICAL	ELECTRICAL	DRIVER	VOLTAGE	# OF LED ROW	CRI / CCT
MCR220			4L		FSW				DRDM	UNV	2	
MCR220 Class 100 Clean Room LED Luminaire	2 Nom. 2000 Lumens 4 Nom. 4000 Lumens 6 Nom. 6000 Lumens 8 Nom. 8000 Lumens 12 Nom. 12000 Lumens <i>*Additional Lumen Packages Available</i>	(Blank) Standard HE High Efficacy	4L 2' x 4'	AMF Antimicrobial Finished Housing and Door Frame <i>*Leave Blank if Not Specified</i>	FSW Flat Steel White Enamel Door Frame	PA2 Clear Prismatic Acrylic 0.125 Nominal DRP8 High Impact Clear Prismatic Acrylic 0.187 Nominal FPA2 Frosted Prismatic Acrylic 0.125 Nominal	WL Wet Location TP Tamper Proof Screws (Hex Socket with Post) <i>*Leave Blank if Not Specified</i> <u>Additional Mechanical Options</u>	BPL1.5 1500lm Emergency Battery Pack MSxx Motion Sensor WLC(LED RU) Wireless Control <i>*Leave Blank if Not Specified</i> <u>Additional Electrical Options</u>	DRDM 0-10V Dimming Driver	UNV 120V-277V	2 Two LED Rows	830 80+CRI / 3000K Color Temp. 835 80+CRI / 3500K Color Temp. 840 80+CRI / 4000K Color Temp. 850 80+CRI / 5000K Color Temp. <i>*Additional Color Temp. Available</i>
<p>Standard options for MCR220 shown above. For additional options, including lumen packages, controls, lenses, switches, finishes, and more, visit www.lalighting.com/resources or contact customer service.</p>												

SYSTEM DATA

THESE ARE THE MOST POPULAR LUMEN PACKAGES. PLEASE CONSULT FACTORY FOR ADDITIONAL SYSTEM DATA.

NOMINAL SIZE	LED LUMEN PACKAGE	OPTICAL OPTION	CRI / CCT	DELIVERED LUMENS	SYSTEM WATTS	LUMINAIRE EFFICACY	FLUORESCENT EQUIVALENT	IES FILES
2' x 4'	2000 lm	PA2	840	1784 lm	15.2 W	117.4 lm/W	1-F32T8	*
	2000HE lm	PA2	840	1635 lm	12.6 W	130.2 lm/W	1-F32T8	*
	4000 lm	PA2	840	3491 lm	31.4 W	111.0 lm/W	2-F32T8, 1-F54T5HO	*
	4000HE lm	PA2	840	3310 lm	25.4W	130.4 lm/W	2-F32T8, 1-F54T5HO	*
	6000 lm	PA2	840	5119 lm	46.8 W	109.5 lm/W	3-F32T8	LA-T3180
	6000HE lm	PA2	840	4961 lm	38.5 W	128.9 lm/W	3-F32T8	*
	8000 lm	PA2	840	6669 lm	66.7 W	100.0 lm/W	4-F32T8, 2-F54T5HO	*
	8000HE lm	PA2	840	6589 lm	51.8 W	127.1 lm/W	4-F32T8, 2-F54T5HO	*
	12000 lm	PA2	840	9533 lm	104.6 W	91.1 lm/W	6-F32T8, 3-F54T5HO	*
	12000HE lm	PA2	840	9776 lm	44.9 W	123.3 lm/W	6-F32T8, 3-F54T5HO	*

NOTE:

System data above is based on 120V input voltage.
 Actual performance may differ as a result of end-user environment and application.
 This fixture has been tested and listed in accordance with UL Standards. L.A. Lighting certifies that it will operate safely when installed properly, and within an ambient temperature range from -20°C to 35°C.

Additional lumen packages and color temperatures available.



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OPTICAL OPTIONS

STANDARD LENSES FOR MCR220

PA2	Clear Prismatic Acrylic, Nom. 0.125 OA Thickness, Female Prisms 3/16 Square Base
DRP8	High Impact Clear Prismatic Acrylic, Nom. 0.187 OA Thickness, Female Prisms 3/16 Square Base
FPA2	Frosted Prismatic Acrylic, Nom. 0.125 OA Thickness

ADDITIONAL AVAILABLE LENSES

(Not all optics suitable for fixture. Please consult factory to ensure selected optical option suits fixture. Please consult factory regarding any optical options not shown)

EXTRUDED PRISMATIC PATTERNS

PA	Clear Prismatic Acrylic, No Thickness Specified, Female Prisms 3/16 Square Base
PA3	Clear Prismatic Acrylic, Min. 0.125 OA Thickness, Female Prisms 3/16 Square Base
PA8	Clear Prismatic Acrylic, Nom. 0.187 OA Thickness, Female Prisms 3/16 Square Base
P15	Clear Prismatic Acrylic, Nom. 0.200 OA Thickness, Female Prisms 3/8 Square Base
P195	Clear Prismatic Acrylic, Nom. 0.150 OA Thickness, Male Conical Prisms 3/16 Square Base
P198	Clear Prismatic Acrylic, Nom. 0.187 OA Thickness, Male Conical Prisms 3/16 Square Base
PWA2	White Prismatic Acrylic, Nom. 0.125 OA Thickness, Female Prisms 3/16 Square Base
P3E	3E Batwing Pattern Lens
P195RF	Clear Prismatic Acrylic, 19 Shunts Radio Frequencies To Ground, Nom. 0.150 OA Thickness
PA2UV	Clear Prismatic Acrylic, UV Blocking, Nom. 0.125 OA Thickness

FLAT DIFFUSERS

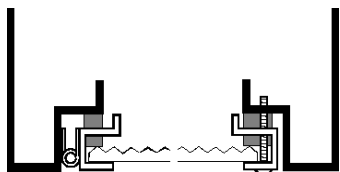
FWA	Flat White Acrylic, No Thickness Specified, Stippled Finish	FWA2	Flat White Acrylic, Nom. 0.125 Thickness, Stippled Finish
FFA	Frosted Flat Acrylic, No Thickness Specified	FFA2	Frosted Flat Acrylic, Nom. 0.125 Thickness
CA8	Clear Acrylic, Nom. 0.187 OA Thickness	CA	Clear Acrylic, No Thickness Specified
		CA2	Clear Acrylic, Nom. 0.125 OA Thickness

HIGH IMPACT

VL25	Clear Polycarbonate, Nom. 0.125 Thickness with 0.125 Clear Prismatic Acrylic Overlay
VL37	Clear Polycarbonate, Nom. 0.250 Thickness with 0.125 Clear Prismatic Acrylic Overlay
CPC2	Clear Polycarbonate, Nom. 0.125 OA Thickness
CPC8	Clear Polycarbonate, Nom. 0.187 OA Thickness
PPC8	Clear Prismatic Polycarbonate, Nom. 0.187 OA Thickness, Female Prisms 3/16 Square Base
DRP3	High Impact Clear Prismatic Acrylic, Min. 0.125 OA Thickness, Female Prisms 3/16 Square Base
DRP2	High Impact Clear Prismatic Acrylic, Nom. 0.125 OA Thickness, Female Prisms 3/16 Square Base
PPC2	Clear Prismatic Polycarbonate, Nom. 0.125 OA Thickness, Female Prisms 3/16 Square Base

DOOR FRAME

CROSS SECTION



FEATURES

- Full Length Piano Hinge
- Inverted Lens
- Two 10-24 Captive Machine Screws
- Sealed with Closed Cell Neoprene Gasket

FS W

FINISHES

- W** White Enamel
- B** Black Enamel

STYLES

- FS** Flat Steel



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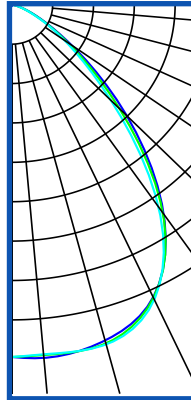
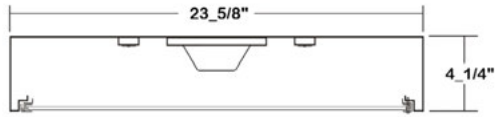


MADE IN THE USA
BAA Compliant

PHOTOMETRIC DATA - MCR220 SERIES

MCR220-6-4L-FSW-PA2-DRDM-UNV-2/840

TEST NO.=LA-T3180
 LED TYPE=48 LED MODULE
 NO. OF MODULE=4
 SYSTEM WATT (W)=46.8
 CRI ≥ 80
 L70(Hrs.) ≥ 50,000
 PHOTOMETRY TYPE=C



CANDLEPOWER

ANGLE	END	45	CROSS
0	2792	2792	2792
5	2810	2788	2782
15	2755	2779	2788
25	2559	2564	2579
35	2025	2014	1956
45	1242	1165	1072
55	557	522	491
65	201	188	179
75	54	53	51
85	7	7	6
90	0	0	0
95	0	0	0
115	0	0	0
125	0	0	0
135	0	0	0
145	0	0	0
155	0	0	0
165	0	0	0
175	0	0	0
180	0	0	0

ZONAL LUMEN SUMMARY

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	2241	34.0	43.7
0-40	3499	53.2	68.3
0-60	4868	74.0	95.1
0-90	5118	77.8	100.0
90-120	.03	0.0	0.0
90-150	.03	0.0	0.0
90-180	.03	0.0	0.0
0-180	5118	77.8	100.00

Luminaire Output= 5118 lumens
 Luminaire Efficacy = 109.4 lm/W

SPACING CRITERION

ALONG	ACROSS
1.20	1.19

