



CLEANROOM MCR220

CLASS 100 CLEANROOM SURFACE MOUNT LUMINAIRE

JOB

TYPE

DATE

Surface-Mounted

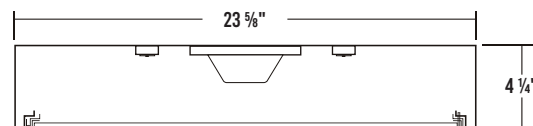


2' x 4'

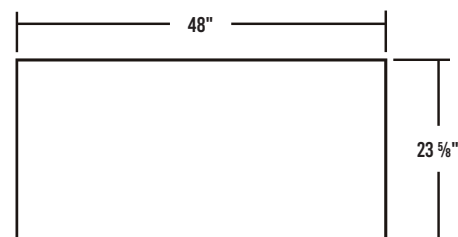


2' x 2'

CROSS SECTION

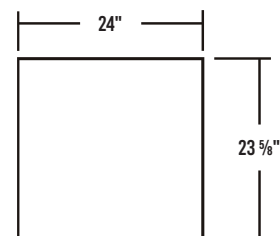


4' BACKPLATE



* No Unused Holes or
KOs on Backplates

2' BACKPLATE



SPECIFICATIONS

Construction

- Class 100 / ISO Class 5 equivalent
- 22 gauge cold-rolled steel welded housing
- 20 gauge 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
- All parts fitted and sealed, no unused holes or knockouts

Finish

- Painted after fabrication
- Baked white powder-coated finish
- Minimum reflectance 90%

Optical

- Inverted clear prismatic acrylic lens (nominal 0.125" thickness)

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

APPLICATIONS

- Cleanroom, Sealed Ceiling Areas, Commercial

FEATURES

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

OPTIONS

- Range of lumen packages and color temperatures
- Tunable white (2700K - 6500K)
- Colored LEDs, including True/Native Amber
- Sensors and controls
- Lens options
- Antimicrobial finish
- Wet location
- Emergency battery pack
- Tamper-proof screws
- Customization available upon request



Los Angeles Lighting Mfg. Co.
Contact Us
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www.lalighting.com
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Made in the USA



Due to continued product improvements and enhancements, Los Angeles Lighting Manufacturing Company reserves the right to alter specifications, dimensions, data, and/or materials without notice.
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Revised: 04/15/25



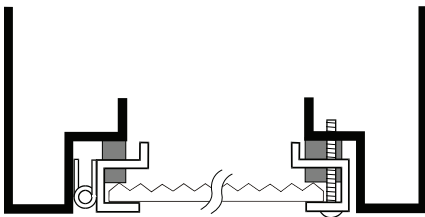
ORDERING INFORMATION

Visit www.lalighting.com/resources for additional options.

EXAMPLE: MCR220-4-4L-FSW-PA2-BPL1.5-DRDM-UNV-2/840											
SERIES	NOMINAL LED LUMENS	NOMINAL LENGTH	FINISH	DOOR FRAME	OPTICAL	MECHANICAL	ELECTRICAL	DRIVER	VOLTAGE	# OF LED ROWS	CRI / CCT
MCR220										2	
MCR220 • Class 100 Cleanroom Surface Mount LED Luminaire	2 - 2000 lm 4 - 4000 lm 6 - 6000 lm 8 - 8000 lm 12 - 12000 lm High Efficacy 2HE - 2000 lm 4HE - 4000 lm 6HE - 6000 lm 8HE - 8000 lm	2L • 2'	AMF • Antimicrobial Finish *Leave blank if not specified	FSW • Flat Steel White Enamel Door Frame	PA2 • Clear Prismatic Acrylic 0.125" FPA2 • Frosted Prismatic Acrylic 0.125"	WL • Wet Location TP • Tamper Proof Screws (Hex Socket with Post) *Leave blank if not specified	BPL1.5 • 1500 lm emergency battery pack *Leave blank if not specified	DRDM • 0-10V Dimming Driver DRDM2C • 2-Channel 0-10V Dimming Driver (for Color Tunable White) DRSD • Step Dimming Driver DR2W • 120V 2-Wire Phase Dimming Driver (Must Specify 120V in Voltage Column)	UNV • 120V-277V	2 • Two LED Rows	827 • 80+CRI / 2700K 830 • 80+CRI / 3000K 835 • 80+CRI / 3500K 840 • 80+CRI / 4000K 850 • 80+CRI / 5000K 865 • 80+CRI / 6500K 8TW • 80+CRI Tunable White 2700K-6500K Requires DRDM2C driver AM8 • PC Yellow 575 nm - 590 nm AM9 • PC Amber 586 nm - 593 nm AMT • True Amber 585 nm - 595 nm 90CRI Also available
	2 - 2000 lm 4 - 4000 lm 6 - 6000 lm 8 - 8000 lm 12 - 12000 lm High Efficacy 2HE - 2000 lm 4HE - 4000 lm 6HE - 6000 lm 8HE - 8000 lm 12HE - 12000 lm	4L • 4'			DRP8 • High-Impact Clear Prismatic Acrylic 0.187" FFWA • Flat Frosted White Acrylic						
Most common options for MCR220 shown above. For additional options, including lumen packages, controls, lenses, colors/finishes, cord & plug, switches, and more, visit www.lalighting.com/resources or contact customer service.											Contact customer service for additional CRI/CCT packages.

Most common options for MCR220 shown above. For additional options, including lumen packages, controls, lenses, colors/finishes, cord & plug, switches, and more, visit www.lalighting.com/resources or contact customer service.

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

OPTICAL OPTIONS

STANDARD LENSES FOR MCR220 - Prismatic lenses are inverted to position the flat side facing down.

- PA2** Clear Prismatic Acrylic, Nom. 0.125" OA Thickness, Female Prisms 3/16" Square Base, Pattern 12
- FPA2** Frosted Prismatic Acrylic, Nom. 0.125" OA Thickness, Female Prisms 3/16" Square Base, Pattern 12
- DRP8** High-Impact Clear Prismatic Acrylic, Nom. 0.187" OA Thickness, Female Prisms 3/16" Square Base, Pattern 12
- FFWA** Flat Frosted White Acrylic, No Thickness Specified



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SYSTEM DATA: Additional Lumen Packages Available. Contact Customer Service for More Information

Normal Temp

2'	LED LUMEN PACKAGE	NORMAL AMBIENT TEMPERATURE PRODUCT CODE	DELIVERED LUMENS	SYSTEM WATTS	LUMINAIRE EFFICACY	AMBIENT TEMP.	FLUORESCENT EQUIVALENT	IES FILES
	2000 Lumens (Nominal)	MCR220-2-2L-FSW-PA2-DRDM-UNV-2/840	1561	12.4	125.5 lm/W	-20°C / 35°C (-4°F / 95°F)	1x F24T5HO 2x F17T8	*
	4000 Lumens (Nominal)	MCR220-4-2L-FSW-PA2-DRDM-UNV-2/840	3064	25.5	120.3 lm/W	-20°C / 35°C (-4°F / 95°F)	2x F24T5HO 4x F17T8	*
	6000 Lumens (Nominal)	MCR220-6-2L-FSW-PA2-DRDM-UNV-2/840	4524	39.0	116.0 lm/W	-20°C / 35°C (-4°F / 95°F)	3x F24T5HO 6x F17T8	*
	8000 Lumens (Nominal)	MCR220-8-2L-FSW-PA2-DRDM-UNV-2/840	5940	53.1	111.9 lm/W	-20°C / 35°C (-4°F / 95°F)	2x F54T5HO 4x F24T5HO	*
	12000 Lumens (Nominal)	MCR220-12-2L-FSW-PA2-DRDM-UNV-2/840	9046	78.0	116.0 lm/W	-20°C / 35°C (-4°F / 95°F)	3x F54T5HO 6x F24T5HO	*

Normal Temp
High Efficacy

2'	LED LUMEN PACKAGE	NORMAL AMBIENT TEMPERATURE (HIGH EFFICACY) PRODUCT CODE	DELIVERED LUMENS	SYSTEM WATTS	LUMINAIRE EFFICACY	AMBIENT TEMP.	FLUORESCENT EQUIVALENT	IES FILES
	2000 Lumens (Nominal)	MCR220-2HE-2L-FSW-PA2-DRDM-UNV-2/840	1587	12.3	129.1 lm/W	-20°C / 35°C (-4°F / 95°F)	1x F24T5HO 2x F17T8	*
	4000 Lumens (Nominal)	MCR220-4HE-2L-FSW-PA2-DRDM-UNV-2/840	3122	24.9	125.5 lm/W	-20°C / 35°C (-4°F / 95°F)	2x F24T5HO 4x F17T8	*
	6000 Lumens (Nominal)	MCR220-6HE-2L-FSW-PA2-DRDM-UNV-2/840	4636	37.8	122.8 lm/W	-20°C / 35°C (-4°F / 95°F)	3x F24T5HO 6x F17T8	*
	8000 Lumens (Nominal)	MCR220-8HE-2L-FSW-PA2-DRDM-UNV-2/840	6128	50.9	120.3 lm/W	-20°C / 35°C (-4°F / 95°F)	2x F54T5HO 4x F24T5HO	*

Normal Temp

4'	LED LUMEN PACKAGE	NORMAL AMBIENT TEMPERATURE PRODUCT CODE	DELIVERED LUMENS	SYSTEM WATTS	LUMINAIRE EFFICACY	AMBIENT TEMP.	FLUORESCENT EQUIVALENT	IES FILES
	2000 Lumens (Nominal)	MCR220-2-4L-FSW-PA2-DRDM-UNV-2/840	1685	12.3	137.1 lm/W	-20°C / 35°C (-4°F / 95°F)	1x F32T8	*
	4000 Lumens (Nominal)	MCR220-4-4L-FSW-PA2-DRDM-UNV-2/840	3317	24.9	133.3 lm/W	-20°C / 35°C (-4°F / 95°F)	1x F54T5HO 2x F32T8	*
	6000 Lumens (Nominal)	MCR220-6-4L-FSW-PA2-DRDM-UNV-2/840	4893	37.8	129.6 lm/W	-20°C / 35°C (-4°F / 95°F)	3x F32T8	*
	8000 Lumens (Nominal)	MCR220-8-4L-FSW-PA2-DRDM-UNV-2/840	6509	50.9	127.8 lm/W	-20°C / 35°C (-4°F / 95°F)	2x F54T5HO 4x F32T8	*
	12000 Lumens (Nominal)	MCR220-12-4L-FSW-PA2-DRDM-UNV-2/840	9611	78.0	123.2 lm/W	-20°C / 35°C (-4°F / 95°F)	3x F54T5HO 6x F32T8	*

Normal Temp
High Efficacy

4'	LED LUMEN PACKAGE	NORMAL AMBIENT TEMPERATURE (HIGH EFFICACY) PRODUCT CODE	DELIVERED LUMENS	SYSTEM WATTS	LUMINAIRE EFFICACY	AMBIENT TEMP.	FLUORESCENT EQUIVALENT	IES FILES
	2000 Lumens (Nominal)	MCR220-2HE-4L-FSW-PA2-DRDM-UNV-2/840	1722	12.2	141.1 lm/W	-20°C / 35°C (-4°F / 95°F)	1x F32T8	*
	4000 Lumens (Nominal)	MCR220-4HE-4L-FSW-PA2-DRDM-UNV-2/840	3370	24.6	137.1 lm/W	-20°C / 35°C (-4°F / 95°F)	1x F54T5HO 2x F32T8	*
	6000 Lumens (Nominal)	MCR220-6HE-4L-FSW-PA2-DRDM-UNV-2/840	4681	34.6	135.3 lm/W	-20°C / 35°C (-4°F / 95°F)	3x F32T8	*
	8000 Lumens (Nominal)	MCR220-8HE-4L-FSW-PA2-DRDM-UNV-2/840	6308	47.2	133.7 lm/W	-20°C / 35°C (-4°F / 95°F)	2x F54T5HO 4x F32T8	*
	12000 Lumens (Nominal)	MCR220-12HE-4L-FSW-PA2-DRDM-UNV-2/840	9529	72.8	130.8 lm/W	-20°C / 35°C (-4°F / 95°F)	3x F54T5HO 6x F32T8	*

NOTE:

System data as of 4/14/25 (K-Boards).

Luminaire efficiency: 2x2 - 73.2%, 2x4 - 74.8%

Subject to change without notice.

System data 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 noted in the system data table.

Additional lumen packages and color temperatures available.



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