



# CLEAN ROOM LED

## MCR720 (2X4) SERIES (2X2 AVAILABLE)

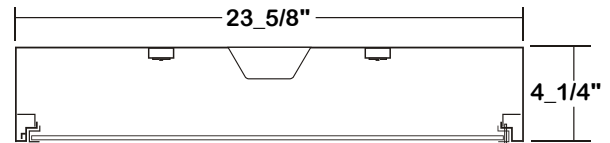
CLASS 1000/10000 CLEAN ROOM LUMINAIRE

DATE	
JOB	

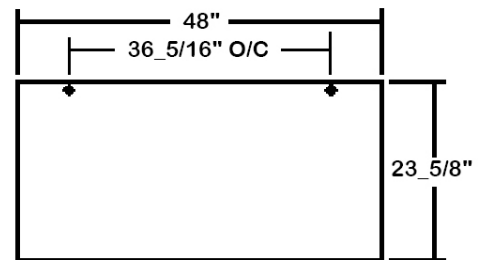
WWW.LALIGHTING.COM  
626-454-8300

### CLASS 1000/10000 SURFACE MOUNTED LED LUMINAIRE

### DIMENSIONS



⌀ 7/8" K.O.



### APPLICATIONS

- Clean Room, Sealed Ceiling Areas, Commercial

### FEATURES

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

### OPTIONS

- 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 1000/10000 / ISO Class 6 equivalent / ISO Class 7 equivalent
- 22 ga. cold rolled steel welded housing
- All parts fitted and sealed
- 20 ga. cold rolled steel door frame secured by T-hinges and positive spring loaded latches
- Door frame sealed with 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) ≤ 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.

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Revised: 07/10/23



MADE IN THE USA  
BAA Compliant

ORDERING INFORMATION

EXAMPLE: MCR720-6-4L-FSW-PA2-TP-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
<b>MCR720</b>			<b>4L</b>		<b>FSW</b>				<b>DRDM</b>	<b>UNV</b>	<b>2</b>	
<b>MCR720</b> Class 1000 / 10000 Clean Room LED Luminaire	<b>2</b> Nom. 2000 Lumens <b>4</b> Nom. 4000 Lumens <b>6</b> Nom. 6000 Lumens <b>8</b> Nom. 8000 Lumens <b>12</b> Nom. 12000 Lumens  <i>*Additional Lumen Packages Available</i>	<b>(Blank)</b> Standard  <b>HE</b> High Efficacy	<b>4L</b> 2' x 4'	<b>AMF</b> Antimicrobial Finished Housing and Door Frame  <i>*Leave Blank if Not Specified</i>	<b>FSW</b> Flat Steel White Enamel Door Frame	<b>PA2</b> Clear Prismatic Acrylic 0.125 Nominal  <b>FPA2</b> Frosted Prismatic Acrylic 0.125 Nominal	<b>TP</b> Tamper Proof Screws (Hex Socket with Post)  <i>*Leave Blank if Not Specified</i>  <u>Additional Mechanical Options</u>	<b>BPL1.5</b> 1500lm Emergency Battery Pack  <b>MSxx</b> Motion Sensor  <b>WLC(LED RU)</b> Wireless Control  <i>*Leave Blank if Not Specified</i>  <u>Additional Electrical Options</u>	<b>DRDM</b> 0-10V Dimming Driver	<b>UNV</b> 120V-277V	<b>2</b> Two LED Rows	<b>830</b> 80+CRI / 3000K Color Temp.  <b>835</b> 80+CRI / 3500K Color Temp.  <b>840</b> 80+CRI / 4000K Color Temp.  <b>850</b> 80+CRI / 5000K Color Temp.  <i>*Additional Color Temp. Available</i>
<p>Standard options for MCR720 shown above. For additional options, including lumen packages, controls, lenses, switches, finishes, and more, visit <a href="http://www.lalighting.com/resources">www.lalighting.com/resources</a> 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	<a href="#">LA-T3180-1</a>
	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 MCR720**

<b>PA2</b>	Clear Prismatic Acrylic, Nom. 0.125 OA Thickness, Female Prisms 3/16 Square Base
<b>FPA2</b>	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**

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

**FLAT DIFFUSERS**

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

**HIGH IMPACT**

<b>VL25</b>	Clear Polycarbonate, Nom. 0.125 Thickness with 0.125 Clear Prismatic Acrylic Overlay
<b>VL37</b>	Clear Polycarbonate, Nom. 0.250 Thickness with 0.125 Clear Prismatic Acrylic Overlay
<b>CPC2</b>	Clear Polycarbonate, Nom. 0.125 OA Thickness
<b>CPC8</b>	Clear Polycarbonate, Nom. 0.187 OA Thickness
<b>PPC8</b>	Clear Prismatic Polycarbonate, Nom. 0.187 OA Thickness, Female Prisms 3/16 Square Base
<b>DRP3</b>	High Impact Clear Prismatic Acrylic, Min. 0.125 OA Thickness, Female Prisms 3/16 Square Base
<b>DRP2</b>	High Impact Clear Prismatic Acrylic, Nom. 0.125 OA Thickness, Female Prisms 3/16 Square Base
<b>DRP8</b>	High Impact Clear Prismatic Acrylic, Nom. 0.187 OA Thickness, Female Prisms 3/16 Square Base
<b>PPC2</b>	Clear Prismatic Polycarbonate, Nom. 0.125 OA Thickness, Female Prisms 3/16 Square Base

**DOOR FRAME**

**CROSS SECTION**



**FS W**

**FINISHES**  
**W** White Enamel  
**B** Black Enamel  
**N** Natural Anodized Aluminum (Only FA / RA / styles)

**STYLES**  
**FS** Flat Steel (with internal frame rail)  
**FA** Flat Extruded Aluminum  
**RA** 5/8" Regressed Extruded Aluminum

**FEATURES**

- Inverted Lens
- T-Hinges and Positive Spring Loaded Latches
- Sealed with Neoprene Gasket
- Light Stop Covers Installed
- Internal Frame Rail



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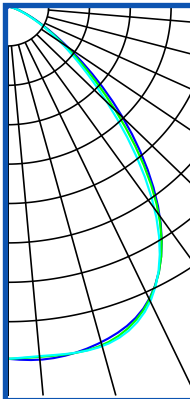
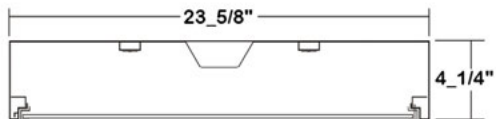
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# PHOTOMETRIC DATA - MCR720 SERIES

## MCR720-6-4L-FSW-PA2-DRDM-UNV-2/840

TEST NO.=LA-T3180-1  
 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

