

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P638509

Luminaire Tested: GWS-SA4F-722-U-5MQ-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638509
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-722-U-5MQ-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21944.3 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

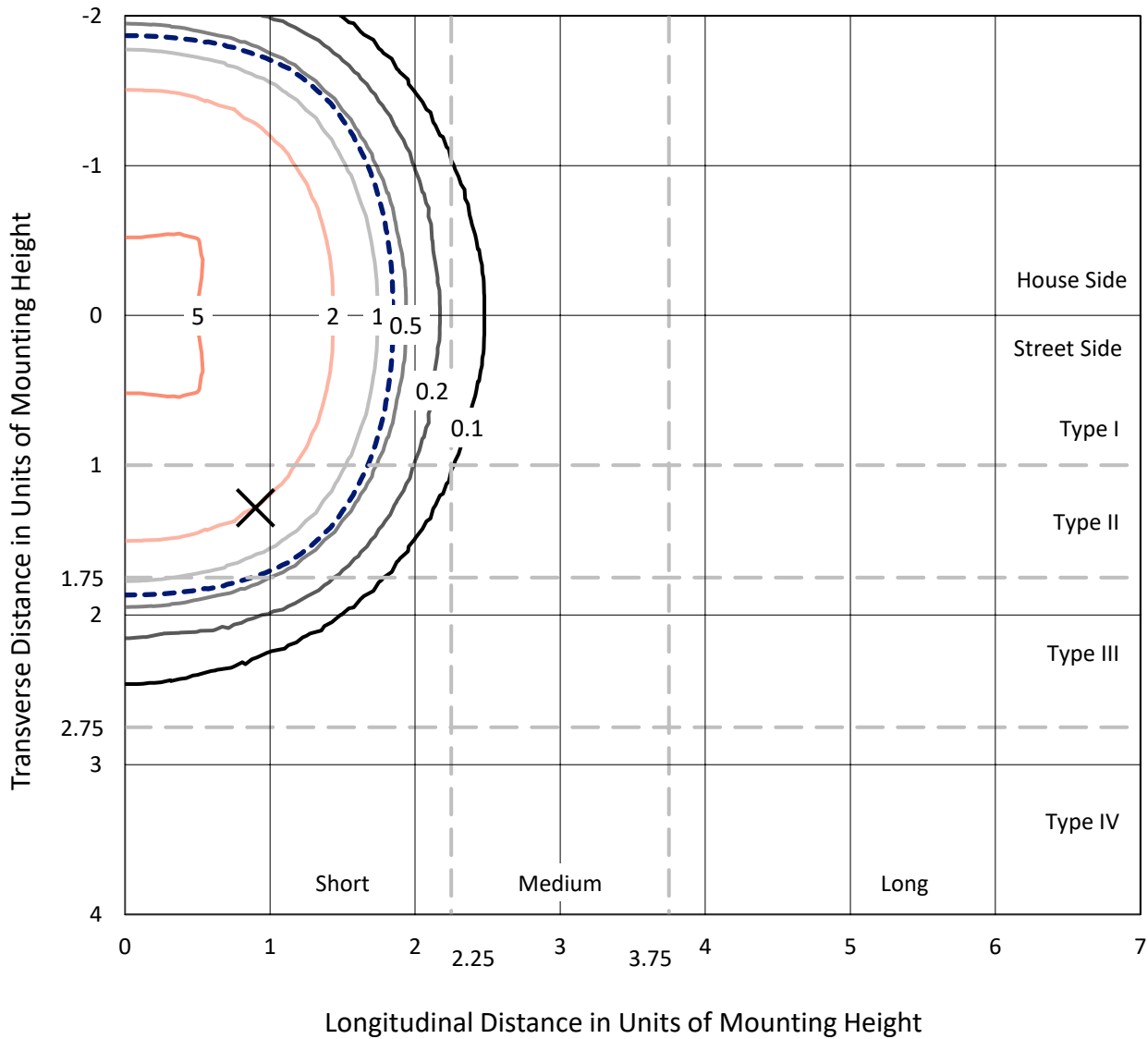
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

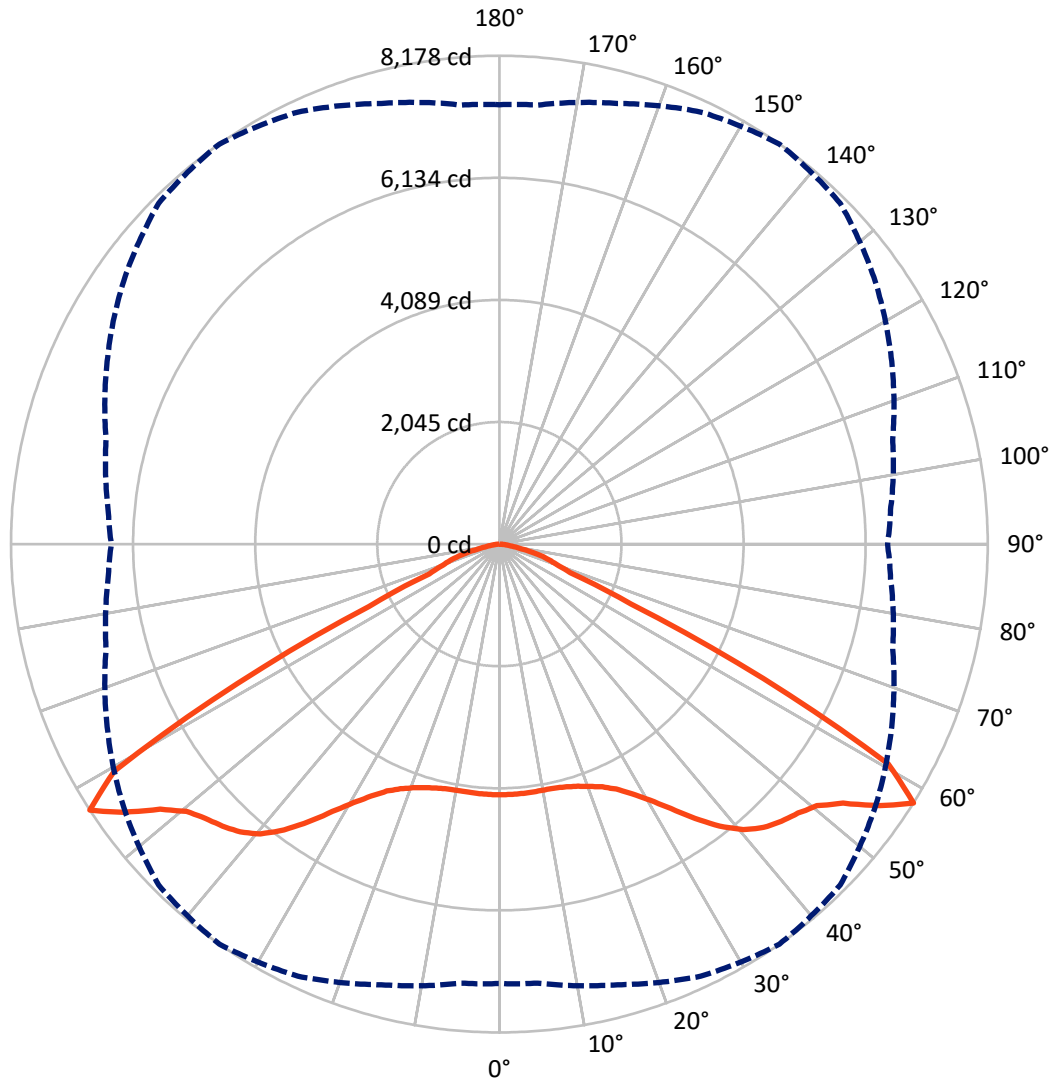
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10972.1	0.0	10972.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10972.1	0.0	10972.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	21944.3	0.0	21944.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.4	1.8
10°-20°	1191.7	5.4
20°-30°	2079.4	9.5
30°-40°	3409.7	15.5
40°-50°	5021.7	22.9
50°-60°	6408.5	29.2
60°-70°	2700.8	12.3
70°-80°	645.2	2.9
80°-90°	87.8	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	21944.3	100.0
0°-180°	21944.3	100.0

Coefficient of Utilization



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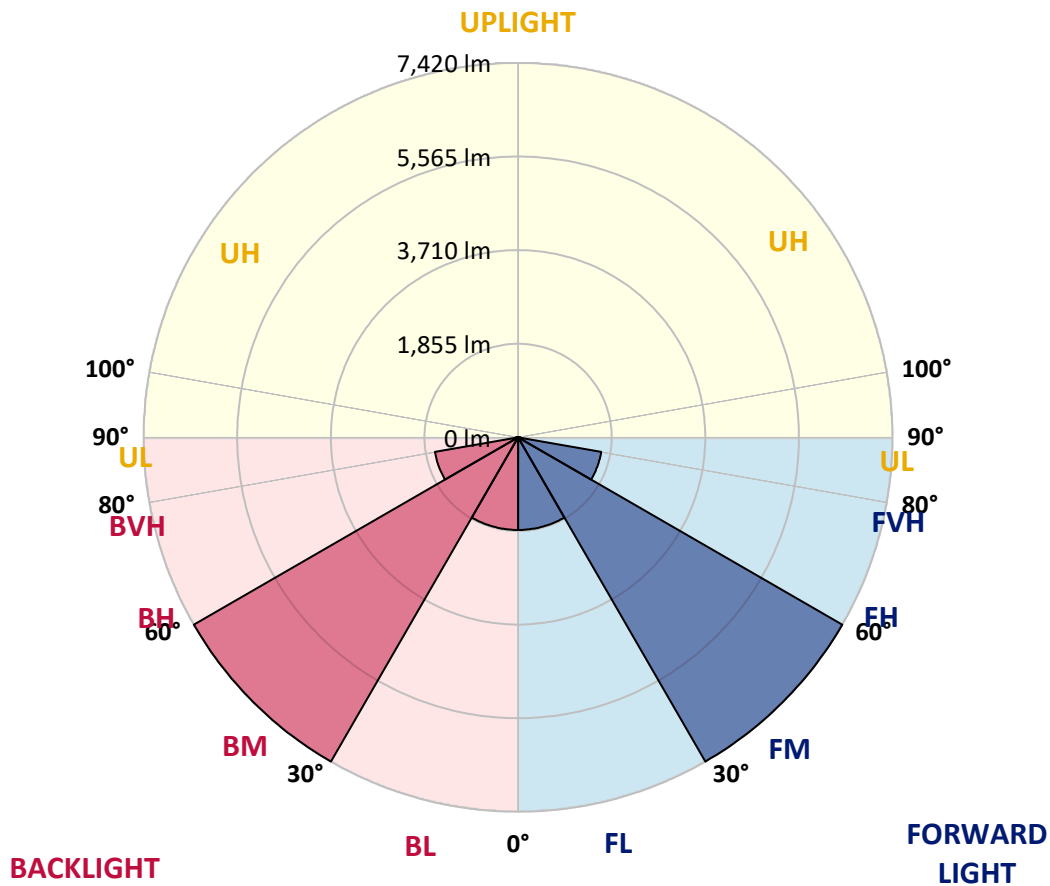
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1835.3	8.4			
FM (30°-60°)	7420.0	33.8			
FH (60°-80°)	1673.0	7.6			G1/1800
FVH (80°-90°)	43.9	0.2			G1/100
BL (0°-30°)	1835.3	8.4	B3/2500		
BM (30°-60°)	7420.0	33.8	B4/8500		
BH (60°-80°)	1673.0	7.6	B3/2500		G1/1800
BVH (80°-90°)	43.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4198.8	4198.8	4198.8	4198.8	4198.8	4198.8	4198.8	4198.8	4198.8	4198.8	4198.8
2.5°	4173.6	4173.6	4182.6	4191.6	4195.2	4211.4	4209.6	4204.2	4200.6	4189.8	4204.2
5°	4182.6	4182.6	4189.8	4195.2	4193.4	4206.0	4200.6	4191.6	4186.2	4175.4	4191.6
7.5°	4180.8	4180.8	4186.2	4191.6	4188.0	4198.8	4189.8	4177.2	4168.2	4157.5	4171.8
10°	4157.5	4161.1	4166.5	4179.0	4184.4	4200.6	4188.0	4168.2	4153.9	4141.3	4155.7
12.5°	4153.9	4157.5	4164.7	4180.8	4189.8	4213.2	4197.0	4164.7	4143.1	4126.9	4141.3
15°	4170.0	4173.6	4184.4	4204.2	4218.6	4243.7	4220.4	4175.4	4144.9	4123.3	4135.9
17.5°	4189.8	4195.2	4211.4	4240.1	4263.5	4290.4	4261.7	4207.8	4164.7	4135.9	4146.7
20°	4211.4	4218.6	4243.7	4286.8	4329.9	4364.1	4328.2	4256.3	4204.2	4166.5	4177.2
22.5°	4249.1	4258.1	4290.4	4351.5	4416.2	4466.5	4421.6	4324.6	4256.3	4207.8	4216.8
25°	4326.4	4337.1	4378.5	4452.1	4543.7	4604.8	4542.0	4432.4	4337.1	4277.8	4286.8
27.5°	4462.9	4468.3	4522.2	4619.2	4732.4	4802.5	4727.0	4597.6	4491.6	4423.4	4430.6
30°	4642.6	4658.7	4712.6	4840.2	4974.9	5068.4	4969.6	4816.8	4694.7	4612.0	4619.2
32.5°	4861.8	4872.5	4953.4	5086.3	5280.4	5388.2	5253.4	5072.0	4924.6	4824.0	4831.2
35°	5149.2	5158.2	5235.5	5404.3	5639.7	5740.3	5585.8	5377.4	5206.7	5111.5	5138.4
37.5°	5492.4	5508.6	5564.3	5731.3	5993.7	6092.5	5914.6	5720.6	5542.7	5454.7	5474.4
40°	5860.7	5858.9	5903.8	6051.1	6290.1	6351.2	6191.3	6036.8	5884.1	5826.6	5858.9
42.5°	6176.9	6167.9	6200.3	6322.4	6487.7	6493.1	6387.1	6300.9	6193.1	6153.6	6184.1
45°	6397.9	6401.5	6450.0	6534.4	6618.9	6574.0	6541.6	6527.3	6442.8	6388.9	6394.3
47.5°	6572.2	6586.5	6663.8	6721.3	6732.1	6656.6	6701.5	6723.1	6653.0	6570.4	6547.0
50°	6726.7	6750.0	6850.7	6911.7	6888.4	6793.2	6881.2	6913.5	6759.0	6600.9	6554.2
52.5°	7007.0	7033.9	7156.1	7235.1	7208.2	7113.0	7195.6	7080.6	6820.1	6626.1	6566.8
55°	7454.3	7466.9	7616.0	7745.4	7732.8	7616.0	7549.6	7294.4	6978.2	6777.0	6721.3
57.5°	7359.1	7380.7	7639.4	7984.3	8178.4	8072.4	7682.5	7247.7	6818.3	6575.8	6500.3
60°	5790.6	5842.7	6164.3	6771.6	7483.1	7481.3	6757.2	6081.7	5564.3	5242.6	5210.3
62.5°	3381.3	3417.2	3710.1	4324.6	4962.4	5001.9	4493.4	4029.9	3577.1	3359.8	3255.5
65°	1600.8	1599.0	1715.8	1992.5	2423.7	2457.8	2305.1	2051.8	1784.1	1710.4	1690.7
67.5°	1182.2	1182.2	1173.2	1193.0	1275.6	1293.6	1275.6	1234.3	1209.2	1225.3	1214.5
70°	1025.9	1027.7	1016.9	1011.5	1011.5	1006.1	1013.3	1029.5	1040.3	1061.8	1051.0
72.5°	831.9	833.6	833.6	835.4	837.2	830.1	840.8	849.8	851.6	858.8	851.6
75°	591.1	594.7	605.5	614.5	621.6	621.6	625.2	627.0	619.8	628.8	614.5
77.5°	325.2	328.8	348.6	364.7	380.9	382.7	388.1	391.7	388.1	395.3	384.5
80°	179.7	183.3	192.2	199.4	212.0	222.8	230.0	233.6	233.6	239.0	233.6
82.5°	102.4	106.0	111.4	115.0	125.8	134.7	141.9	147.3	147.3	149.1	145.5
85°	48.5	48.5	52.1	55.7	61.1	64.7	73.7	79.1	79.1	82.6	79.1
87.5°	7.2	9.0	10.8	10.8	14.4	18.0	21.6	23.4	26.9	28.7	28.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)