

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: P638515

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638515
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-722-U-5WQ-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE 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: 21166.3 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

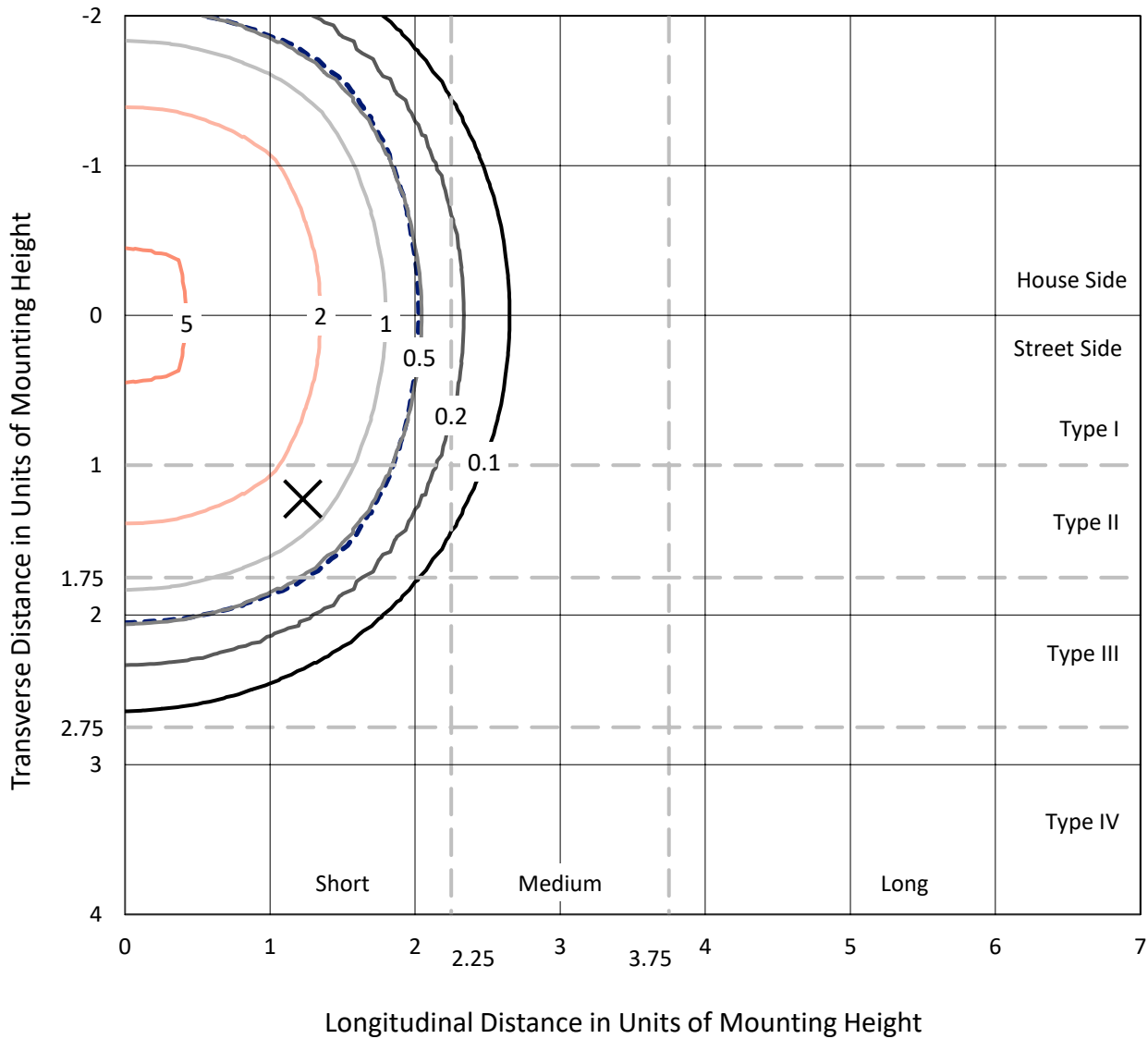
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

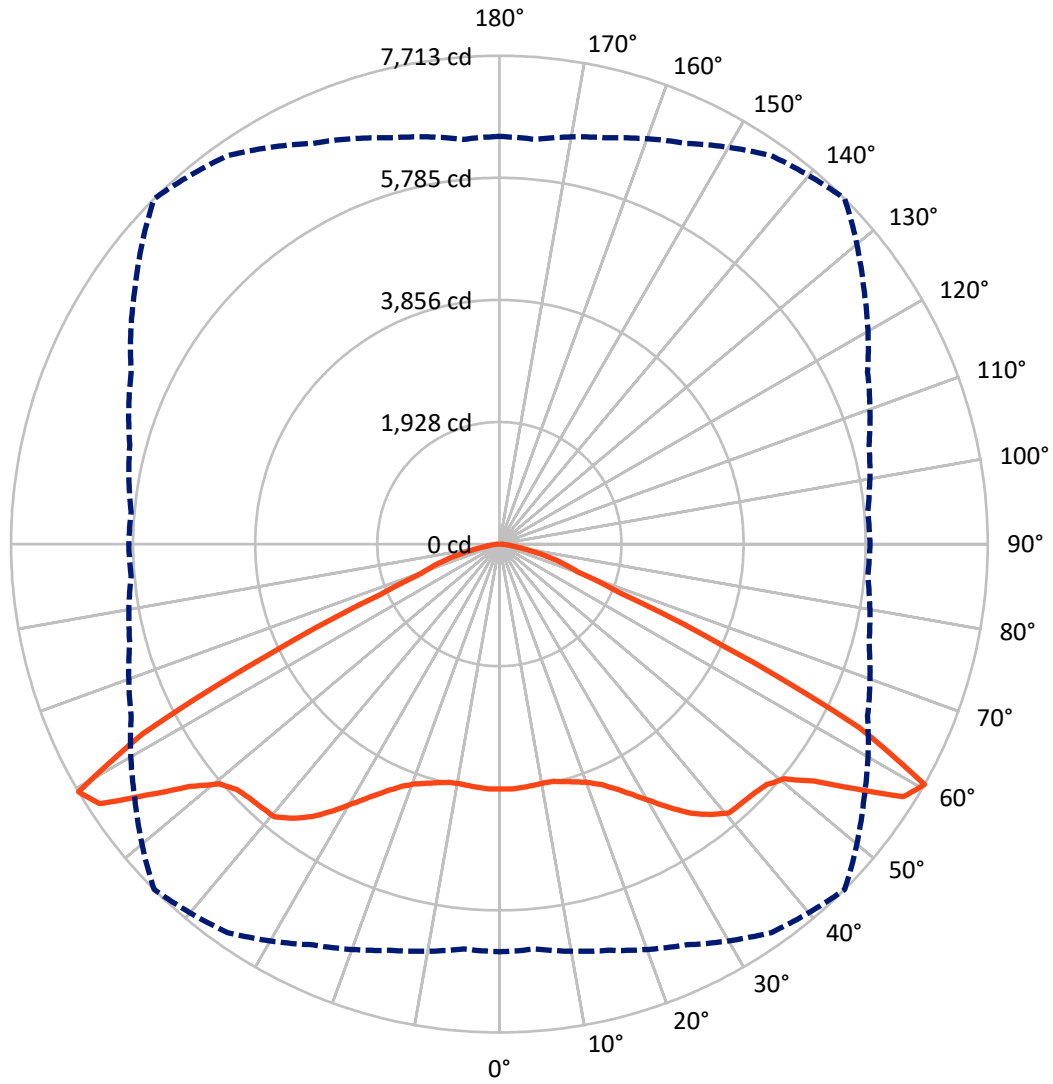
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10583.1	0.0	10583.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10583.1	0.0	10583.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	21166.3	0.0	21166.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.8	1.7
10°-20°	1103.4	5.2
20°-30°	1952.1	9.2
30°-40°	3142.9	14.8
40°-50°	4319.8	20.4
50°-60°	5756.6	27.2
60°-70°	3587.8	17.0
70°-80°	825.0	3.9
80°-90°	111.9	0.5
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°	21166.3	100.0
0°-180°	21166.3	100.0

Coefficient of Utilization



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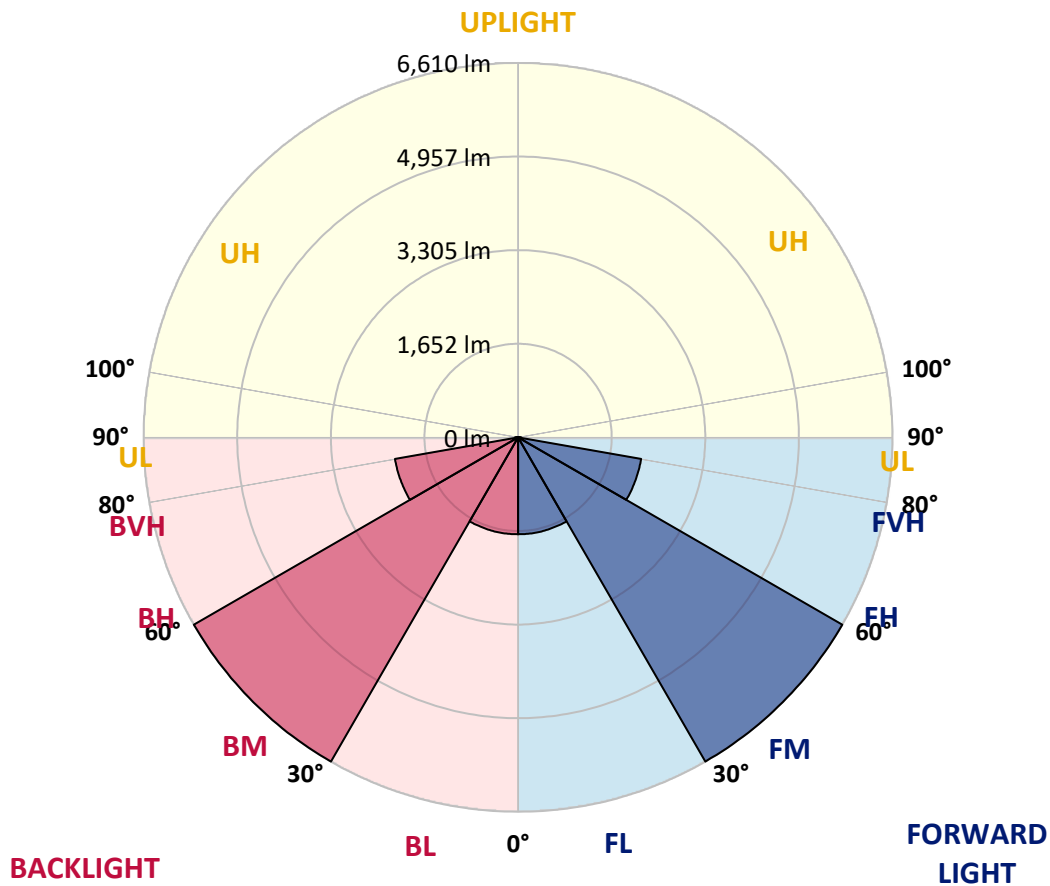
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1711.1	8.1			
FM (30°-60°)	6609.6	31.2			
FH (60°-80°)	2206.4	10.4			G2/5000
FVH (80°-90°)	56.0	0.3			G1/100
BL (0°-30°)	1711.1	8.1	B3/2500		
BM (30°-60°)	6609.6	31.2	B4/8500		
BH (60°-80°)	2206.4	10.4	B3/2500		G2/5000
BVH (80°-90°)	56.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3868.1	3868.1	3868.1	3868.1	3868.1	3868.1	3868.1	3868.1	3868.1	3868.1	3868.1
2.5°	3841.2	3844.8	3851.9	3857.3	3864.5	3871.7	3875.3	3868.1	3864.5	3850.1	3866.3
5°	3844.8	3848.3	3853.7	3853.7	3855.5	3860.9	3860.9	3851.9	3843.0	3826.8	3844.8
7.5°	3839.4	3843.0	3844.8	3843.0	3844.8	3846.6	3843.0	3832.2	3823.2	3808.8	3823.2
10°	3830.4	3834.0	3837.6	3834.0	3830.4	3835.8	3835.8	3828.6	3823.2	3808.8	3825.0
12.5°	3850.1	3855.5	3857.3	3848.3	3844.8	3846.6	3846.6	3839.4	3839.4	3826.8	3844.8
15°	3896.9	3900.5	3895.1	3884.3	3886.1	3891.5	3878.9	3860.9	3857.3	3851.9	3866.3
17.5°	3932.8	3936.4	3931.0	3923.8	3936.4	3949.0	3925.6	3891.5	3880.7	3877.1	3893.3
20°	3972.3	3977.7	3970.5	3979.5	4004.7	4019.0	3990.3	3943.6	3922.0	3916.6	3936.4
22.5°	4037.0	4044.2	4044.2	4063.9	4101.7	4125.0	4089.1	4026.2	3993.9	3984.9	4004.7
25°	4139.4	4144.8	4150.2	4189.7	4250.8	4283.1	4225.6	4139.4	4094.5	4080.1	4090.9
27.5°	4281.3	4290.3	4299.3	4356.8	4432.2	4479.0	4396.3	4288.5	4232.8	4204.1	4225.6
30°	4450.2	4462.8	4484.3	4549.0	4655.0	4707.1	4601.1	4470.0	4407.1	4376.6	4405.3
32.5°	4680.2	4682.0	4698.1	4770.0	4910.1	4969.4	4836.5	4691.0	4626.3	4590.4	4606.5
35°	4953.3	4955.1	4929.9	5003.6	5154.5	5221.0	5064.7	4917.3	4863.4	4852.7	4894.0
37.5°	5233.5	5217.4	5192.2	5224.6	5377.3	5420.4	5255.1	5129.3	5106.0	5125.7	5186.8
40°	5433.0	5406.0	5355.7	5379.1	5533.6	5583.9	5407.8	5289.2	5282.0	5330.6	5404.2
42.5°	5562.3	5533.6	5474.3	5474.3	5580.3	5601.8	5465.3	5402.4	5418.6	5474.3	5544.4
45°	5625.2	5609.0	5574.9	5556.9	5616.2	5625.2	5521.0	5495.8	5526.4	5553.3	5607.2
47.5°	5673.7	5673.7	5662.9	5645.0	5671.9	5677.3	5600.0	5592.9	5632.4	5632.4	5668.3
50°	5759.9	5768.9	5783.3	5779.7	5808.5	5826.4	5768.9	5758.1	5774.3	5722.2	5740.2
52.5°	5986.3	6009.7	6051.0	6083.3	6157.0	6212.7	6110.3	6024.0	5939.6	5824.6	5828.2
55°	6392.4	6403.1	6484.0	6579.2	6703.2	6816.4	6606.2	6338.5	6155.2	6020.5	6022.3
57.5°	6735.5	6751.7	6870.3	7069.7	7348.2	7524.2	7058.9	6611.5	6352.8	6187.5	6192.9
60°	6439.1	6417.5	6642.1	6983.4	7488.3	7712.9	7026.6	6415.7	6043.8	5839.0	5853.4
62.5°	4982.0	4940.7	5190.4	5547.9	6153.4	6378.0	5745.6	5159.9	4807.7	4647.8	4624.5
65°	3032.7	2995.0	3174.6	3393.8	3803.4	3945.4	3656.1	3345.3	3038.1	2941.1	2914.1
67.5°	1651.1	1645.7	1694.2	1802.0	1981.7	2048.1	1992.4	1845.1	1766.1	1697.8	1697.8
70°	1309.7	1299.0	1290.0	1291.8	1307.9	1316.9	1318.7	1311.5	1320.5	1322.3	1315.1
72.5°	1085.2	1081.6	1063.6	1065.4	1058.2	1054.6	1067.2	1074.4	1088.7	1090.5	1090.5
75°	786.9	777.9	786.9	788.7	781.5	781.5	790.5	788.7	795.9	799.5	779.7
77.5°	447.4	447.4	459.9	474.3	485.1	485.1	494.1	494.1	503.1	501.3	497.7
80°	246.1	246.1	253.3	262.3	273.1	283.9	292.8	294.6	300.0	298.2	292.8
82.5°	140.1	141.9	145.5	150.9	161.7	170.7	179.7	181.5	186.8	186.8	181.5
85°	66.5	64.7	66.5	70.1	75.5	82.6	91.6	97.0	100.6	100.6	97.0
87.5°	12.6	14.4	12.6	14.4	16.2	21.6	25.2	28.7	34.1	35.9	32.3
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)