

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: P638511

Luminaire Tested: GWS-SA4F-722-U-5NQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638511
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-722-U-5NQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17635.9 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

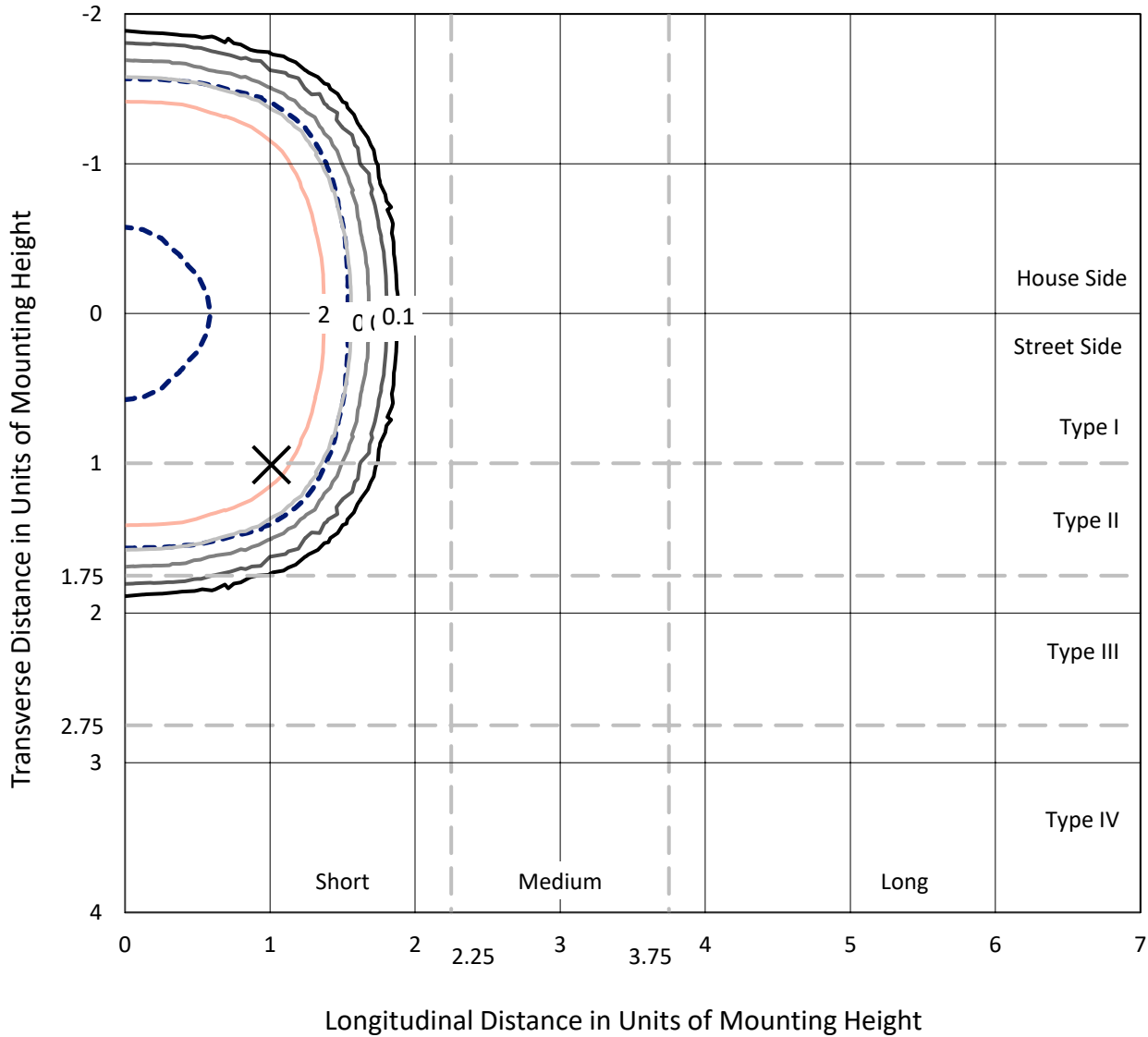
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

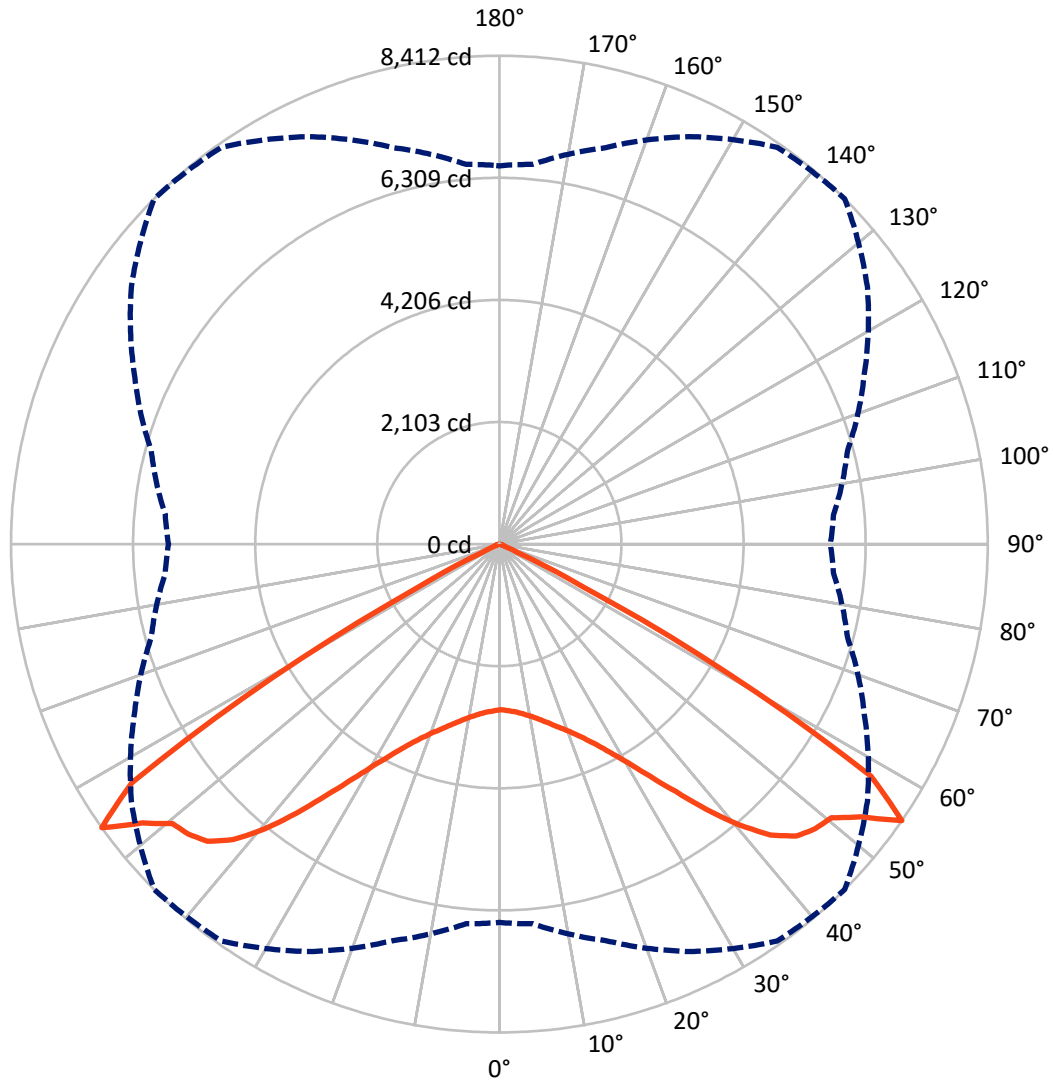
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8818.0	0.0	8818.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8818.0	0.0	8818.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17635.9	0.0	17635.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.4	1.6
10°-20°	905.6	5.1
20°-30°	1753.8	9.9
30°-40°	3142.1	17.8
40°-50°	5267.9	29.9
50°-60°	5639.0	32.0
60°-70°	619.7	3.5
70°-80°	27.3	0.2
80°-90°	1.3	0.0
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°	17635.9	100.0
0°-180°	17635.9	100.0

Coefficient of Utilization



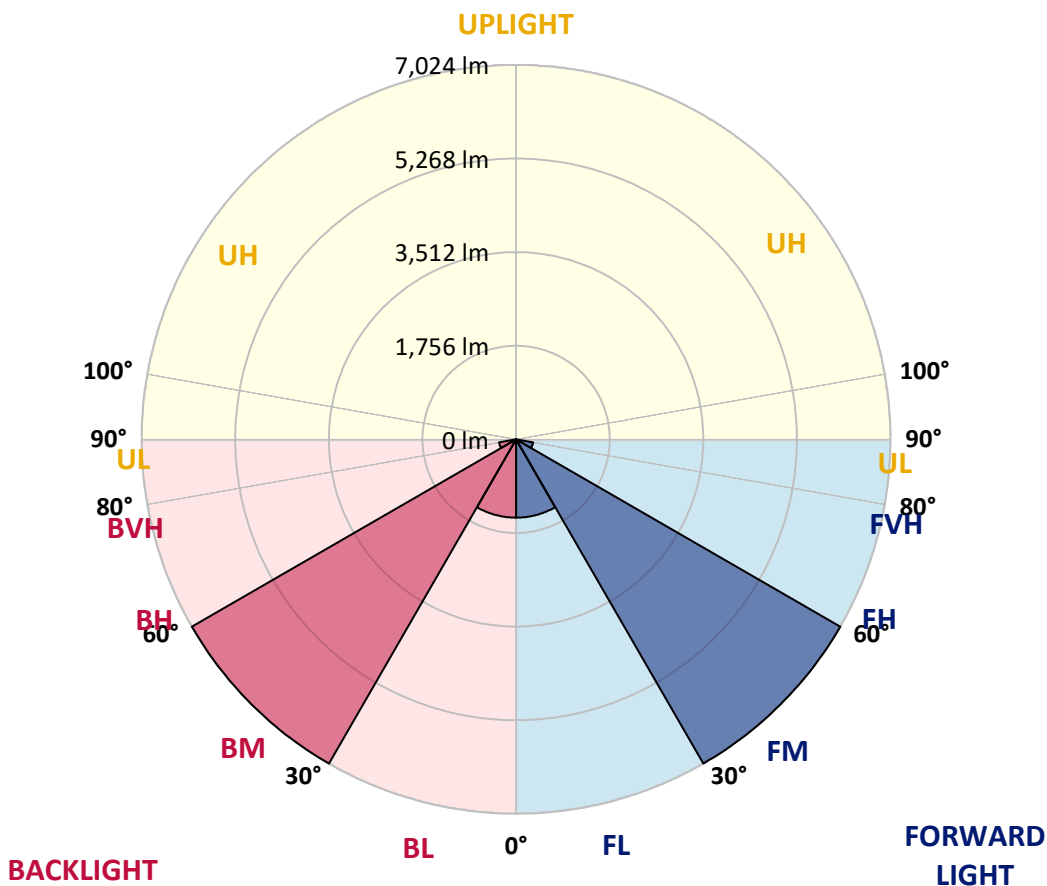
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1469.4	8.3			
FM (30°-60°)	7024.5	39.8			
FH (60°-80°)	323.5	1.8			G0/660
FVH (80°-90°)	0.6	0.0			G0/10
BL (0°-30°)	1469.4	8.3	B3/2500		
BM (30°-60°)	7024.5	39.8	B4/8500		
BH (60°-80°)	323.5	1.8	B1/500		G0/660
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4
2.5°	2846.0	2846.0	2853.2	2858.6	2858.6	2872.9	2867.6	2862.2	2862.2	2855.0	2869.4
5°	2887.3	2885.5	2892.7	2896.3	2889.1	2903.5	2894.5	2889.1	2885.5	2878.3	2892.7
7.5°	2932.2	2934.0	2935.8	2943.0	2939.4	2953.8	2946.6	2935.8	2932.2	2921.5	2935.8
10°	2986.1	2986.1	2989.7	2998.7	3000.5	3018.5	3011.3	2998.7	2987.9	2977.2	2991.5
12.5°	3054.4	3056.2	3061.6	3074.2	3081.4	3101.1	3090.3	3065.2	3049.0	3036.4	3052.6
15°	3153.2	3151.4	3158.6	3176.6	3185.6	3199.9	3183.8	3149.6	3129.9	3115.5	3126.3
17.5°	3261.0	3261.0	3264.6	3282.6	3295.2	3316.7	3297.0	3255.6	3237.7	3217.9	3228.7
20°	3379.6	3385.0	3388.6	3401.2	3422.7	3444.3	3428.1	3386.8	3367.0	3341.9	3354.5
22.5°	3535.9	3530.5	3532.3	3553.9	3584.4	3606.0	3593.4	3544.9	3510.8	3491.0	3498.2
25°	3710.2	3708.4	3713.8	3746.1	3780.3	3803.6	3785.7	3722.8	3688.7	3654.5	3668.9
27.5°	3924.0	3925.8	3929.4	3968.9	4022.8	4057.0	4012.1	3949.2	3902.5	3857.5	3868.3
30°	4177.4	4173.8	4184.5	4238.4	4317.5	4371.4	4319.3	4231.3	4164.8	4121.7	4127.1
32.5°	4446.9	4450.5	4479.2	4565.5	4669.7	4764.9	4658.9	4542.1	4455.9	4375.0	4385.8
35°	4737.9	4746.9	4811.6	4939.2	5109.9	5237.4	5090.1	4897.8	4775.7	4671.5	4675.0
37.5°	5081.1	5102.7	5192.5	5383.0	5627.3	5798.0	5582.4	5327.3	5169.1	5039.8	5030.8
40°	5532.1	5557.2	5679.4	5905.8	6202.3	6358.6	6108.8	5846.5	5650.7	5510.5	5489.0
42.5°	6049.5	6081.9	6214.8	6446.6	6743.1	6849.1	6604.7	6383.7	6207.6	6042.3	6035.2
45°	6633.5	6651.4	6759.2	6937.1	7150.9	7176.1	6992.8	6870.6	6692.8	6538.2	6525.7
47.5°	7181.5	7199.4	7273.1	7364.7	7415.0	7325.2	7292.9	7239.0	7009.0	6818.5	6779.0
50°	7598.3	7612.7	7704.3	7740.2	7600.1	7409.6	7472.5	7357.5	7107.8	6894.0	6832.9
52.5°	7569.6	7605.5	7840.9	8045.7	7957.6	7803.1	7634.2	7386.3	6998.2	6705.3	6629.9
55°	6516.7	6565.2	7070.1	7743.8	8345.7	8412.2	7736.7	6937.1	6207.6	5778.2	5701.0
57.5°	4188.1	4200.7	4817.0	5762.1	7118.6	7546.2	6416.1	5230.2	4322.9	3850.4	3818.0
60°	1539.8	1514.6	1980.0	2763.3	4100.1	4552.9	3776.7	2644.8	1886.5	1552.4	1525.4
62.5°	370.1	373.7	463.6	695.3	1286.4	1591.9	1257.7	702.5	447.4	375.5	371.9
65°	186.9	183.3	185.1	199.4	274.9	328.8	269.5	190.5	183.3	185.1	183.3
67.5°	120.4	118.6	122.2	124.0	122.2	115.0	113.2	116.8	116.8	118.6	115.0
70°	73.7	71.9	75.5	80.9	77.3	68.3	71.9	75.5	71.9	70.1	70.1
72.5°	39.5	39.5	43.1	46.7	43.1	39.5	39.5	41.3	39.5	39.5	39.5
75°	18.0	18.0	19.8	21.6	18.0	18.0	18.0	18.0	18.0	18.0	18.0
77.5°	5.4	5.4	7.2	7.2	5.4	5.4	5.4	5.4	7.2	7.2	7.2
80°	1.8	3.6	3.6	1.8	1.8	1.8	1.8	1.8	3.6	3.6	3.6
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
85°	1.8	1.8	1.8	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
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)