

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: P638787

Luminaire Tested: GWS-SA4F-750-U-5NQ-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638787
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-750-U-5NQ-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31552 lumens
Efficiency: N/A
Efficacy: 140.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

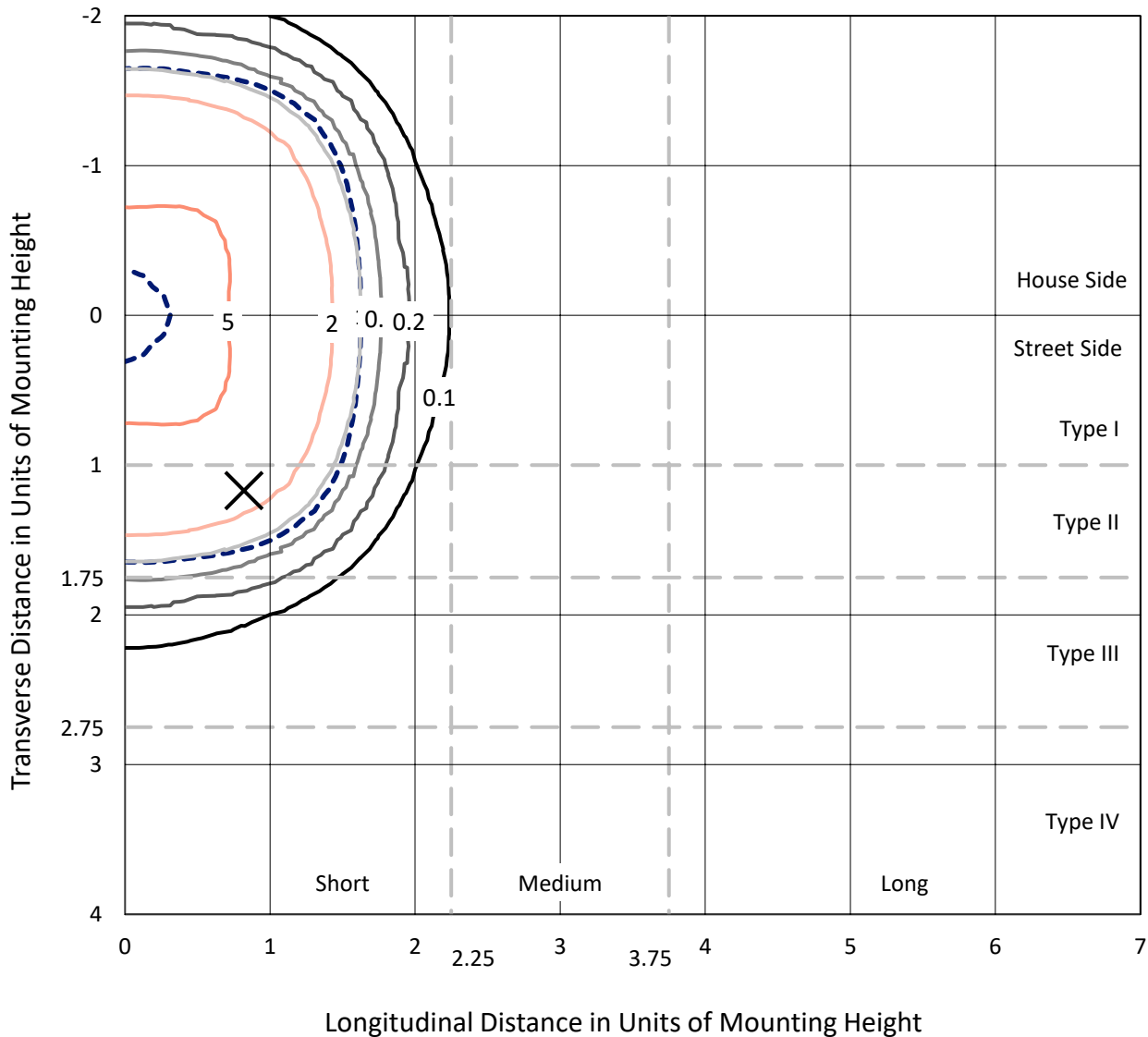
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

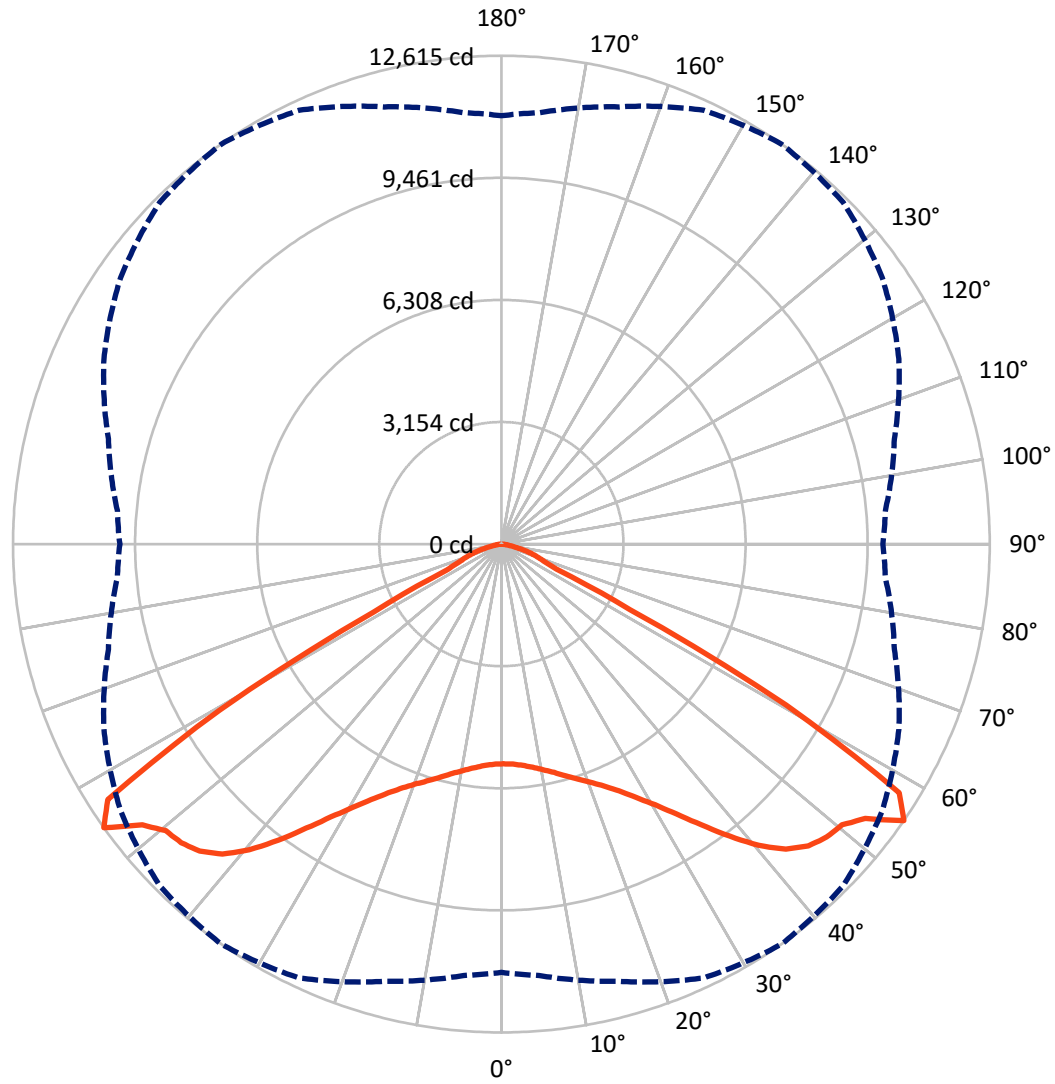
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15776.0	0.0	15776.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15776.0	0.0	15776.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	31552.0	0.0	31552.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	553.7	1.8
10°-20°	1762.7	5.6
20°-30°	3262.4	10.3
30°-40°	5457.4	17.3
40°-50°	8316.1	26.4
50°-60°	9315.8	29.5
60°-70°	2204.2	7.0
70°-80°	594.3	1.9
80°-90°	85.5	0.3
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°	31552.0	100.0
0°-180°	31552.0	100.0

Coefficient of Utilization



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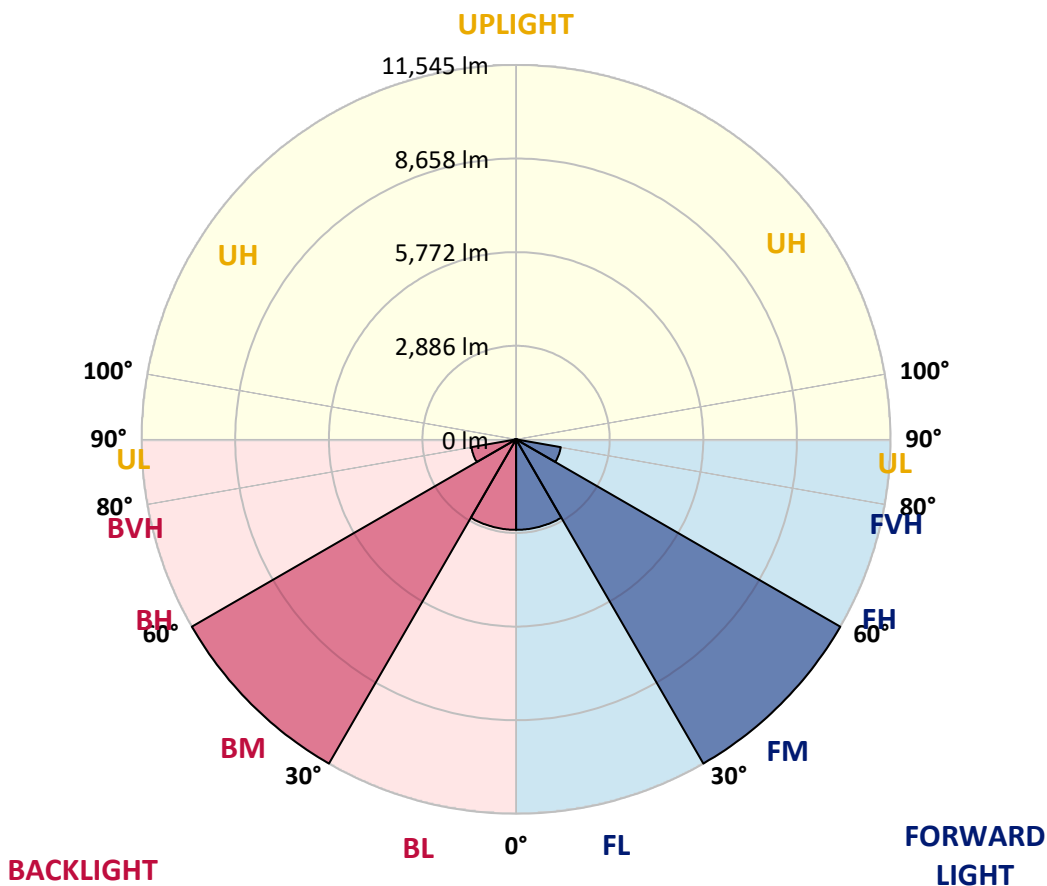
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2789.4	8.8			
FM (30°-60°)	11544.6	36.6			
FH (60°-80°)	1399.2	4.4			G1/1800
FVH (80°-90°)	42.8	0.1			G1/100
BL (0°-30°)	2789.4	8.8	B4/5000		
BM (30°-60°)	11544.6	36.6	B5		
BH (60°-80°)	1399.2	4.4	B3/2500		G1/1800
BVH (80°-90°)	42.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5676.3	5676.3	5676.3	5676.3	5676.3	5676.3	5676.3	5676.3	5676.3	5676.3	5676.3
2.5°	5663.8	5663.8	5673.8	5686.3	5688.8	5713.7	5708.7	5698.7	5693.8	5683.8	5706.2
5°	5726.2	5728.7	5736.2	5743.7	5738.7	5758.6	5751.1	5738.7	5731.2	5718.7	5741.2
7.5°	5808.5	5808.5	5816.0	5826.0	5821.0	5850.9	5836.0	5818.5	5806.0	5791.1	5811.0
10°	5883.4	5888.4	5895.9	5915.8	5925.8	5958.2	5948.3	5923.3	5903.3	5885.9	5908.3
12.5°	5995.7	6000.6	6008.1	6035.6	6053.0	6085.5	6070.5	6035.6	6005.6	5980.7	6005.6
15°	6140.4	6135.4	6155.3	6190.3	6212.7	6242.7	6225.2	6165.3	6125.4	6093.0	6117.9
17.5°	6287.6	6285.1	6305.0	6350.0	6382.4	6422.3	6392.4	6322.5	6280.1	6240.2	6265.1
20°	6447.3	6454.8	6474.7	6517.1	6564.5	6616.9	6592.0	6517.1	6469.7	6424.8	6444.8
22.5°	6644.4	6646.9	6669.3	6724.2	6786.6	6836.5	6821.5	6729.2	6669.3	6621.9	6646.9
25°	6881.4	6878.9	6908.9	6973.7	7061.1	7111.0	7078.5	6976.2	6911.4	6856.5	6876.4
27.5°	7153.4	7150.9	7195.8	7280.6	7405.4	7475.2	7407.9	7280.6	7190.8	7113.5	7130.9
30°	7495.2	7487.7	7537.6	7652.4	7814.6	7931.8	7832.0	7654.9	7537.6	7455.3	7472.7
32.5°	7874.4	7884.4	7946.8	8101.5	8306.1	8458.3	8308.6	8111.5	7954.3	7834.5	7854.5
35°	8291.1	8291.1	8418.4	8610.5	8902.4	9104.5	8872.5	8588.0	8378.5	8213.8	8218.8
37.5°	8755.2	8760.2	8927.4	9191.8	9573.6	9810.6	9496.2	9144.4	8889.9	8712.8	8702.8
40°	9321.6	9336.6	9508.7	9803.1	10232.3	10449.4	10112.5	9768.2	9508.7	9299.1	9279.2
42.5°	9960.3	9965.3	10147.5	10411.9	10773.7	10903.5	10639.0	10357.0	10145.0	9955.3	9935.4
45°	10569.1	10556.7	10713.8	10911.0	11120.5	11133.0	10985.8	10871.0	10686.4	10524.2	10494.3
47.5°	11043.2	11033.2	11175.4	11282.7	11307.7	11185.4	11232.8	11250.3	11035.7	10816.1	10758.8
50°	11332.6	11352.6	11487.3	11547.2	11400.0	11200.4	11380.0	11335.1	11028.2	10741.3	10649.0
52.5°	11507.3	11537.2	11771.8	11924.0	11771.8	11582.1	11607.1	11342.6	10901.0	10521.7	10402.0
55°	11065.6	11185.4	11691.9	12365.6	12615.1	12482.8	12008.8	11327.6	10509.2	9957.8	9855.5
57.5°	8201.3	8390.9	9141.9	10601.6	12118.6	12600.1	11215.4	9496.2	8256.2	7547.6	7487.7
60°	4186.7	4398.8	5000.1	6499.7	8450.8	9129.5	7812.1	6080.5	4833.0	4259.1	4194.2
62.5°	1709.1	1744.1	1941.2	2520.0	3735.1	4309.0	3785.0	2657.3	1996.1	1838.9	1841.4
65°	1344.8	1352.3	1342.3	1377.3	1564.4	1736.6	1604.3	1409.7	1374.8	1392.3	1379.8
67.5°	1172.7	1175.2	1167.7	1167.7	1175.2	1167.7	1182.7	1190.1	1195.1	1215.1	1202.6
70°	980.6	983.1	983.1	988.0	985.6	973.1	995.5	1005.5	1008.0	1020.5	1013.0
72.5°	758.5	766.0	771.0	773.5	771.0	763.5	776.0	793.4	790.9	803.4	790.9
75°	514.0	524.0	529.0	538.9	536.4	536.4	551.4	558.9	551.4	561.4	551.4
77.5°	291.9	299.4	314.4	324.4	334.3	341.8	351.8	356.8	354.3	359.3	354.3
80°	169.7	172.2	184.6	189.6	202.1	214.6	224.6	229.5	232.0	234.5	232.0
82.5°	97.3	99.8	104.8	109.8	119.8	129.7	139.7	147.2	147.2	149.7	147.2
85°	47.4	47.4	49.9	52.4	57.4	64.9	72.4	79.8	82.3	82.3	82.3
87.5°	7.5	7.5	10.0	10.0	12.5	15.0	20.0	25.0	27.4	27.4	27.4
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)