

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: P638790

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638790
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29393.8 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

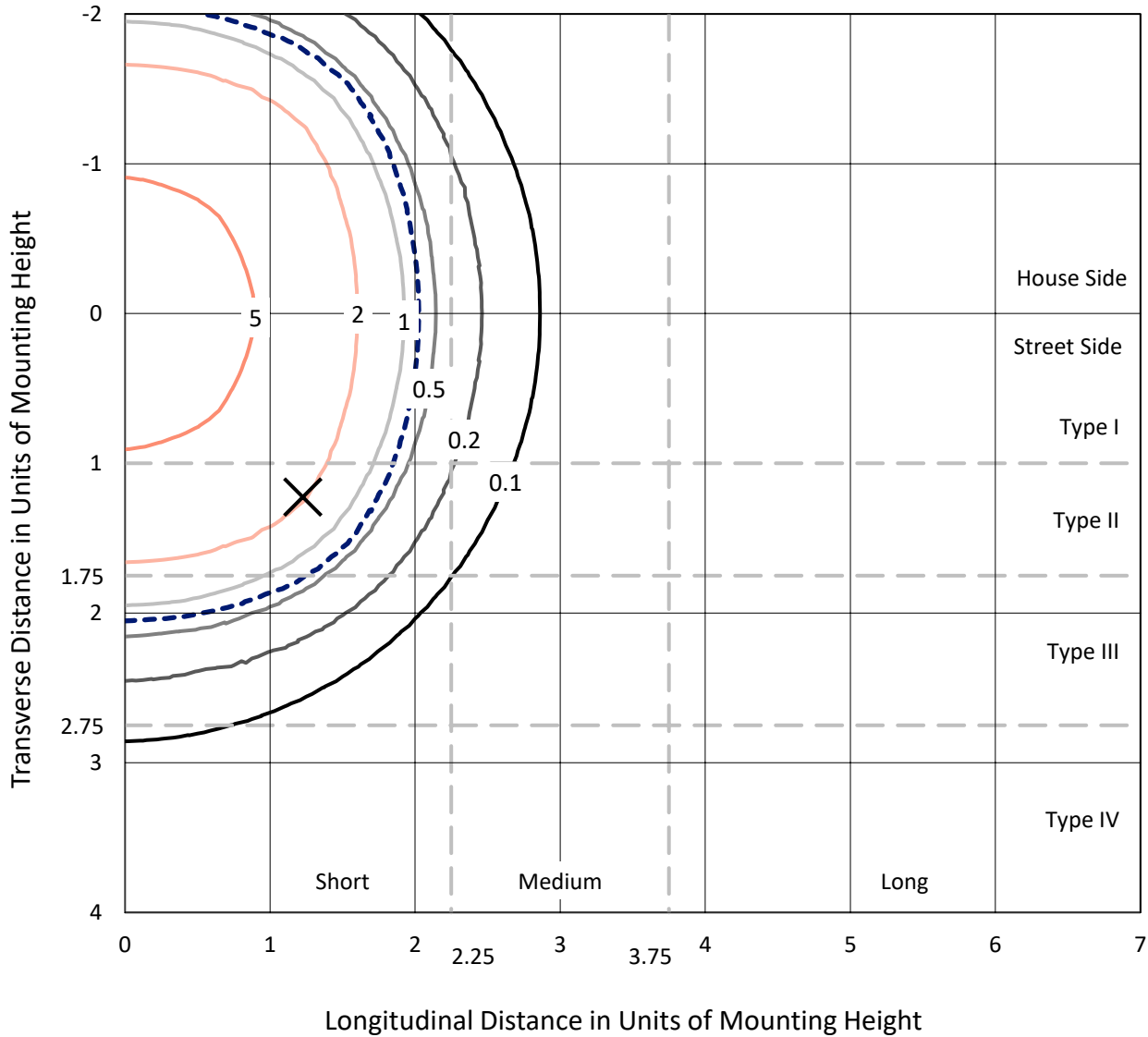
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

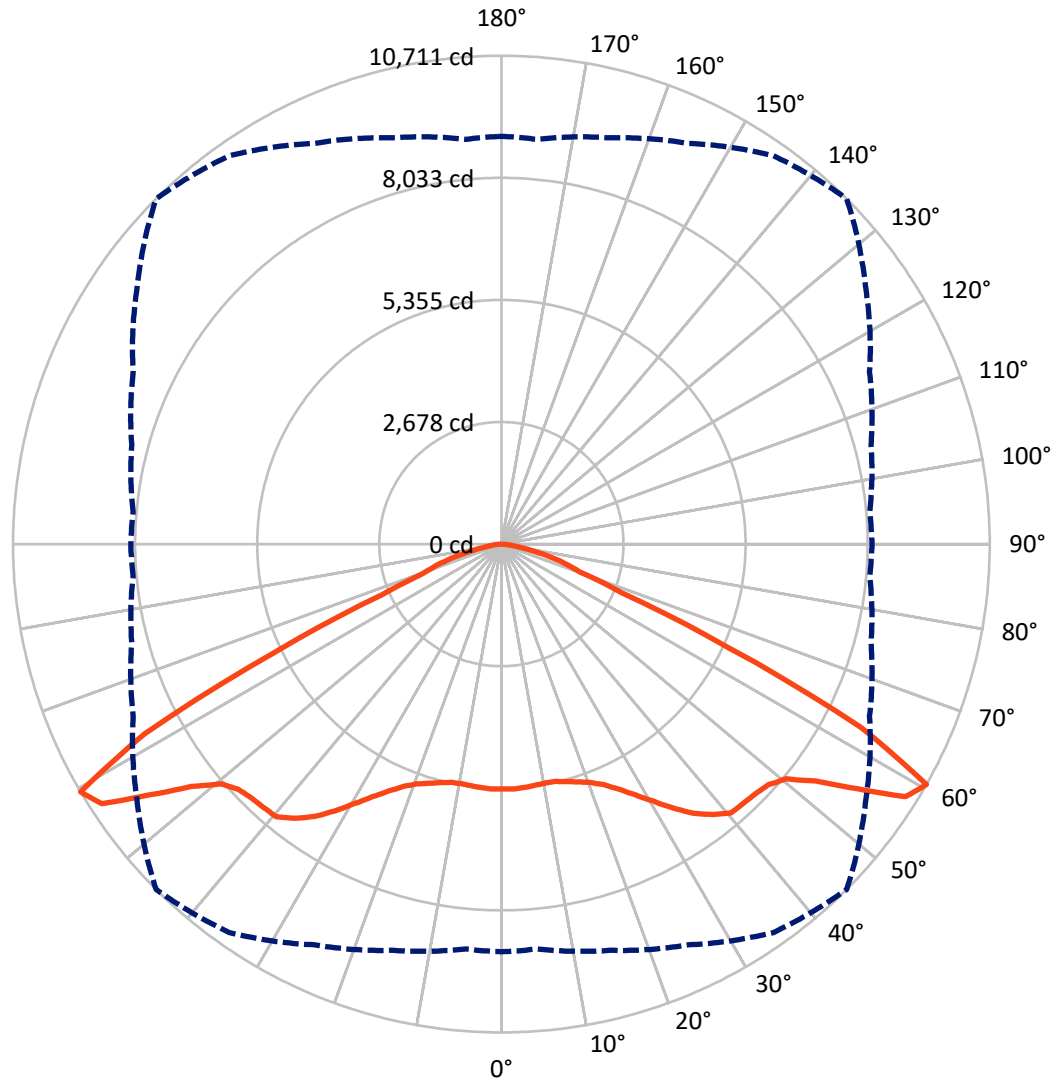
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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	14696.9	0.0	14696.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14696.9	0.0	14696.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	29393.8	0.0	29393.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.4	1.7
10°-20°	1532.3	5.2
20°-30°	2710.9	9.2
30°-40°	4364.5	14.8
40°-50°	5999.0	20.4
50°-60°	7994.2	27.2
60°-70°	4982.4	17.0
70°-80°	1145.7	3.9
80°-90°	155.4	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°	29393.8	100.0
0°-180°	29393.8	100.0

Coefficient of Utilization



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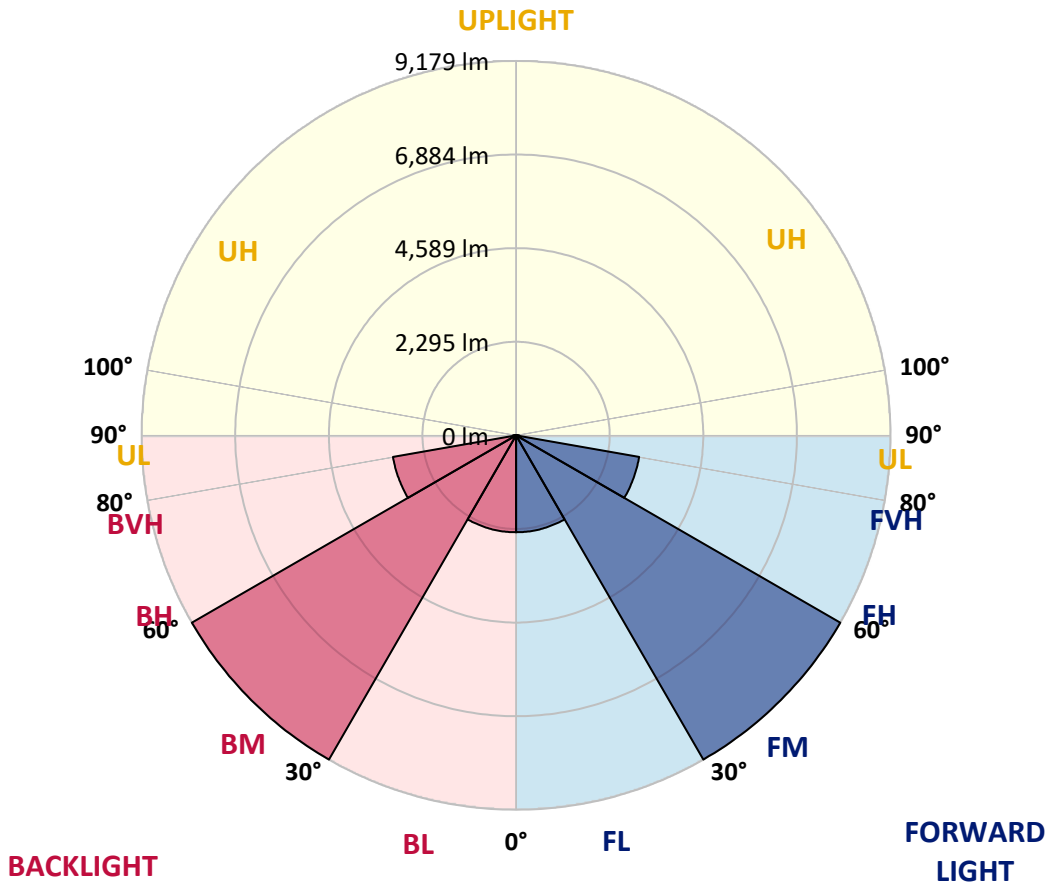
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2376.3	8.1			
FM (30°-60°)	9178.9	31.2			
FH (60°-80°)	3064.0	10.4			G2/5000
FVH (80°-90°)	77.7	0.3			G1/100
BL (0°-30°)	2376.3	8.1	B3/2500		
BM (30°-60°)	9178.9	31.2	B5		
BH (60°-80°)	3064.0	10.4	B4/5000		G2/5000
BVH (80°-90°)	77.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5371.7	5371.7	5371.7	5371.7	5371.7	5371.7	5371.7	5371.7	5371.7	5371.7	5371.7
2.5°	5334.3	5339.2	5349.2	5356.7	5366.7	5376.7	5381.7	5371.7	5366.7	5346.7	5369.2
5°	5339.2	5344.2	5351.7	5351.7	5354.2	5361.7	5361.7	5349.2	5336.7	5314.3	5339.2
7.5°	5331.8	5336.7	5339.2	5336.7	5339.2	5341.7	5336.7	5321.8	5309.3	5289.3	5309.3
10°	5319.3	5324.3	5329.3	5324.3	5319.3	5326.8	5326.8	5316.8	5309.3	5289.3	5311.8
12.5°	5346.7	5354.2	5356.7	5344.2	5339.2	5341.7	5341.7	5331.8	5331.8	5314.3	5339.2
15°	5411.6	5416.6	5409.1	5394.1	5396.6	5404.1	5386.6	5361.7	5356.7	5349.2	5369.2
17.5°	5461.5	5466.5	5459.0	5449.0	5466.5	5483.9	5451.5	5404.1	5389.1	5384.1	5406.6
20°	5516.4	5523.9	5513.9	5526.4	5561.3	5581.3	5541.3	5476.5	5446.5	5439.0	5466.5
22.5°	5606.2	5616.2	5616.2	5643.6	5696.0	5728.5	5678.6	5591.2	5546.3	5533.8	5561.3
25°	5748.4	5755.9	5763.4	5818.3	5903.1	5948.0	5868.2	5748.4	5686.0	5666.1	5681.1
27.5°	5945.5	5958.0	5970.5	6050.3	6155.1	6220.0	6105.2	5955.5	5878.2	5838.2	5868.2
30°	6180.0	6197.5	6227.5	6317.3	6464.5	6536.8	6389.6	6207.5	6120.2	6077.8	6117.7
32.5°	6499.4	6501.9	6524.4	6624.2	6818.8	6901.1	6716.5	6514.4	6424.6	6374.7	6397.1
35°	6878.6	6881.1	6846.2	6948.5	7158.1	7250.4	7033.3	6828.7	6753.9	6738.9	6796.3
37.5°	7267.9	7245.4	7210.5	7255.4	7467.5	7527.3	7297.8	7123.1	7090.7	7118.2	7203.0
40°	7544.8	7507.4	7437.5	7469.9	7684.5	7754.4	7509.9	7345.2	7335.2	7402.6	7504.9
42.5°	7724.4	7684.5	7602.2	7602.2	7749.4	7779.3	7589.7	7502.4	7524.8	7602.2	7699.5
45°	7811.8	7789.3	7741.9	7716.9	7799.3	7811.8	7667.0	7632.1	7674.5	7712.0	7786.8
47.5°	7879.1	7879.1	7864.2	7839.2	7876.6	7884.1	7776.8	7766.8	7821.7	7821.7	7871.6
50°	7998.9	8011.4	8031.3	8026.3	8066.2	8091.2	8011.4	7996.4	8018.8	7946.5	7971.4
52.5°	8313.2	8345.7	8403.1	8448.0	8550.3	8627.6	8485.4	8365.6	8248.4	8088.7	8093.7
55°	8877.1	8892.1	9004.4	9136.6	9308.7	9465.9	9174.0	8802.3	8547.8	8360.7	8363.1
57.5°	9353.7	9376.1	9540.8	9817.7	10204.4	10448.9	9802.7	9181.5	8822.2	8592.7	8600.2
60°	8942.0	8912.0	9223.9	9698.0	10399.0	10710.9	9757.8	8909.5	8393.1	8108.7	8128.6
62.5°	6918.6	6861.2	7208.0	7704.5	8545.3	8857.2	7978.9	7165.6	6676.5	6454.5	6422.1
65°	4211.5	4159.1	4408.6	4713.0	5281.9	5479.0	5077.3	4645.6	4219.0	4084.3	4046.8
67.5°	2292.9	2285.4	2352.8	2502.5	2752.0	2844.3	2766.9	2562.3	2452.6	2357.7	2357.7
70°	1818.8	1803.9	1791.4	1793.9	1816.3	1828.8	1831.3	1821.3	1833.8	1836.3	1826.3
72.5°	1507.0	1502.0	1477.0	1479.5	1469.5	1464.5	1482.0	1492.0	1512.0	1514.4	1514.4
75°	1092.8	1080.3	1092.8	1095.3	1085.3	1085.3	1097.8	1095.3	1105.3	1110.3	1082.8
77.5°	621.2	621.2	638.7	658.7	673.6	673.6	686.1	686.1	698.6	696.1	691.1
80°	341.8	341.8	351.8	364.3	379.2	394.2	406.7	409.2	416.7	414.2	406.7
82.5°	194.6	197.1	202.1	209.6	224.5	237.0	249.5	252.0	259.5	259.5	252.0
85°	92.3	89.8	92.3	97.3	104.8	114.8	127.2	134.7	139.7	139.7	134.7
87.5°	17.5	20.0	17.5	20.0	22.5	29.9	34.9	39.9	47.4	49.9	44.9
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)