

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: P638842

Luminaire Tested: GWS-SA4F-760-U-5NQ-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638842
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31119.6 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

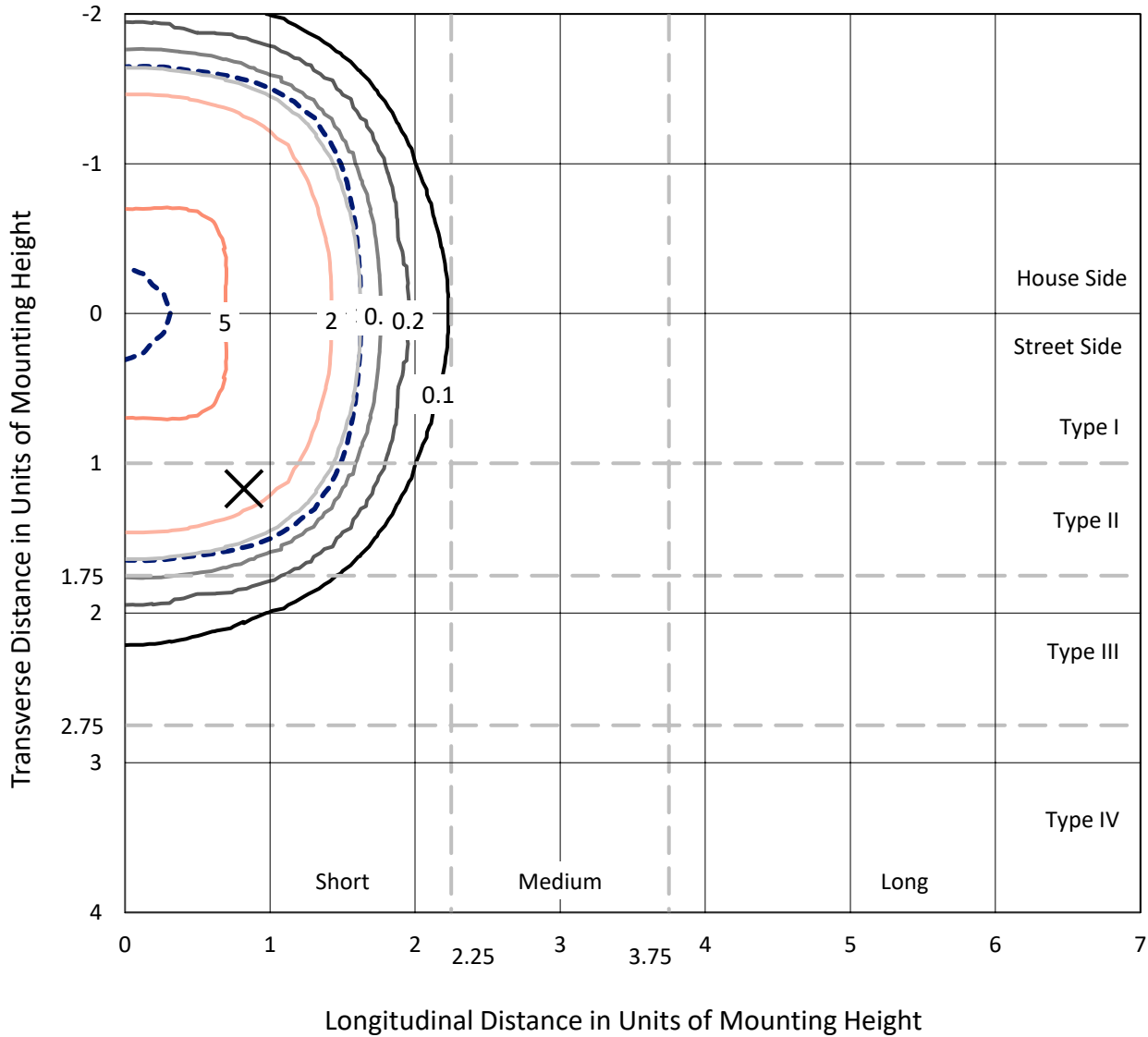
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

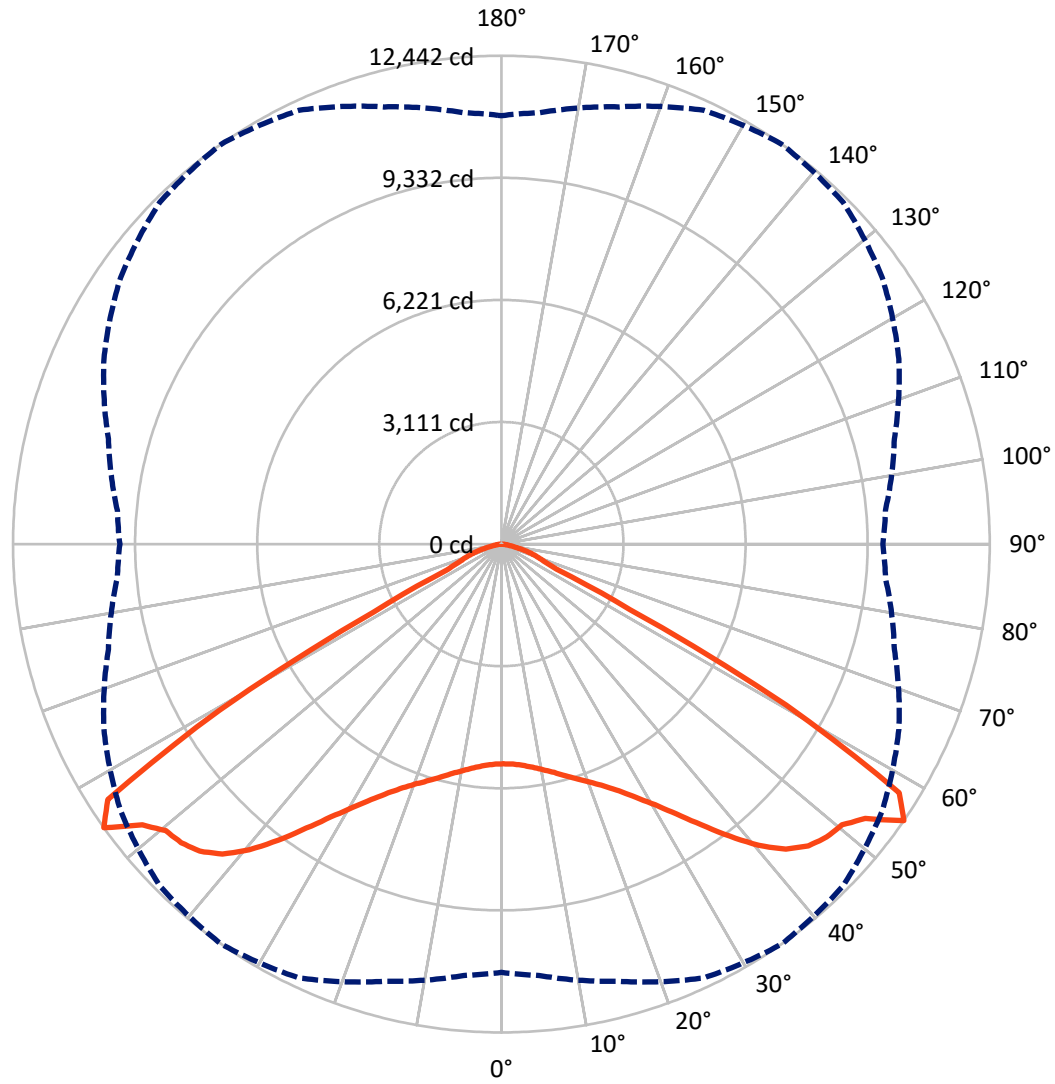
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 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	15559.8	0.0	15559.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15559.8	0.0	15559.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	31119.6	0.0	31119.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	546.1	1.8
10°-20°	1738.5	5.6
20°-30°	3217.7	10.3
30°-40°	5382.6	17.3
40°-50°	8202.1	26.4
50°-60°	9188.1	29.5
60°-70°	2174.0	7.0
70°-80°	586.1	1.9
80°-90°	84.4	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°	31119.6	100.0
0°-180°	31119.6	100.0

Coefficient of Utilization



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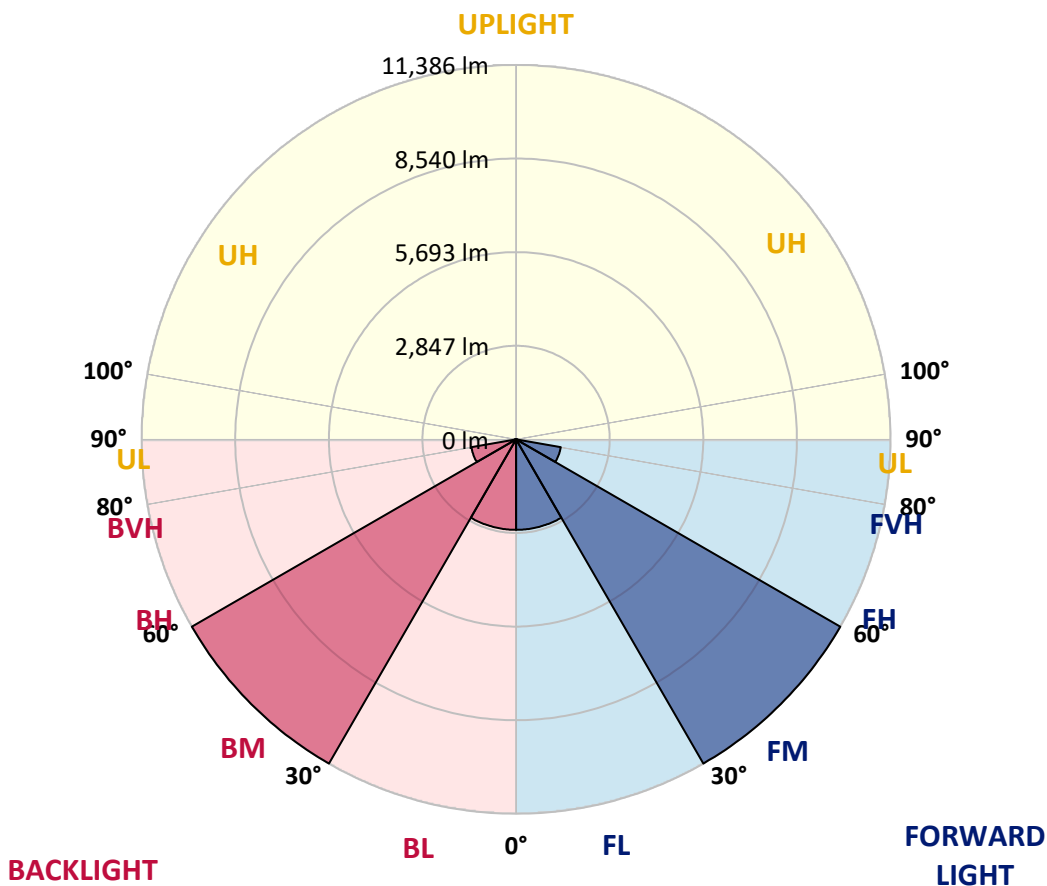
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2751.2	8.8			
FM (30°-60°)	11386.4	36.6			
FH (60°-80°)	1380.1	4.4			G1/1800
FVH (80°-90°)	42.2	0.1			G1/100
BL (0°-30°)	2751.2	8.8	B4/5000		
BM (30°-60°)	11386.4	36.6	B5		
BH (60°-80°)	1380.1	4.4	B3/2500		G1/1800
BVH (80°-90°)	42.2	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°	5598.5	5598.5	5598.5	5598.5	5598.5	5598.5	5598.5	5598.5	5598.5	5598.5	5598.5
2.5°	5586.2	5586.2	5596.0	5608.3	5610.8	5635.4	5630.5	5620.6	5615.7	5605.9	5628.0
5°	5647.7	5650.2	5657.6	5664.9	5660.0	5679.7	5672.3	5660.0	5652.6	5640.3	5662.5
7.5°	5728.9	5728.9	5736.3	5746.2	5741.2	5770.8	5756.0	5738.8	5726.5	5711.7	5731.4
10°	5802.8	5807.7	5815.1	5834.7	5844.6	5876.6	5866.7	5842.1	5822.4	5805.2	5827.4
12.5°	5913.5	5918.4	5925.8	5952.9	5970.1	6002.1	5987.3	5952.9	5923.3	5898.7	5923.3
15°	6056.2	6051.3	6071.0	6105.4	6127.6	6157.1	6139.9	6080.8	6041.5	6009.5	6034.1
17.5°	6201.4	6199.0	6218.6	6262.9	6294.9	6334.3	6304.8	6235.9	6194.0	6154.7	6179.3
20°	6358.9	6366.3	6386.0	6427.8	6474.6	6526.3	6501.6	6427.8	6381.1	6336.8	6356.5
22.5°	6553.3	6555.8	6577.9	6632.1	6693.6	6742.8	6728.0	6637.0	6577.9	6531.2	6555.8
25°	6787.1	6784.6	6814.2	6878.2	6964.3	7013.5	6981.5	6880.6	6816.6	6762.5	6782.2
27.5°	7055.3	7052.9	7097.2	7180.8	7303.9	7372.8	7306.3	7180.8	7092.3	7016.0	7033.2
30°	7392.5	7385.1	7434.3	7547.5	7707.5	7823.1	7724.7	7550.0	7434.3	7353.1	7370.3
32.5°	7766.5	7776.4	7837.9	7990.5	8192.3	8342.4	8194.7	8000.3	7845.3	7727.2	7746.8
35°	8177.5	8177.5	8303.0	8492.5	8780.4	8979.7	8750.9	8470.3	8263.6	8101.2	8106.1
37.5°	8635.2	8640.1	8805.0	9065.9	9442.4	9676.2	9366.1	9019.1	8768.1	8593.4	8583.5
40°	9193.8	9208.6	9378.4	9668.8	10092.1	10306.2	9973.9	9634.3	9378.4	9171.7	9152.0
42.5°	9823.8	9828.8	10008.4	10269.2	10626.1	10754.0	10493.2	10215.1	10005.9	9818.9	9799.2
45°	10424.3	10412.0	10567.0	10761.4	10968.1	10980.4	10835.2	10722.0	10539.9	10380.0	10350.5
47.5°	10891.9	10882.0	11022.3	11128.1	11152.7	11032.1	11078.9	11096.1	10884.5	10667.9	10611.3
50°	11177.3	11197.0	11329.9	11388.9	11243.8	11046.9	11224.1	11179.8	10877.1	10594.1	10503.0
52.5°	11349.6	11379.1	11610.4	11760.5	11610.4	11423.4	11448.0	11187.2	10751.6	10377.5	10259.4
55°	10914.0	11032.1	11531.7	12196.1	12442.2	12311.8	11844.2	11172.4	10365.2	9821.4	9720.5
57.5°	8088.9	8275.9	9016.7	10456.3	11952.5	12427.4	11061.7	9366.1	8143.0	7444.2	7385.1
60°	4129.4	4338.5	4931.6	6410.6	8335.0	9004.4	7705.0	5997.2	4766.7	4200.7	4136.7
62.5°	1685.7	1720.2	1914.6	2485.5	3683.9	4249.9	3733.2	2620.8	1968.7	1813.7	1816.1
65°	1326.4	1333.8	1324.0	1358.4	1543.0	1712.8	1582.3	1390.4	1355.9	1373.2	1360.9
67.5°	1156.6	1159.1	1151.7	1151.7	1159.1	1151.7	1166.5	1173.8	1178.8	1198.4	1186.1
70°	967.1	969.6	969.6	974.5	972.0	959.7	981.9	991.7	994.2	1006.5	999.1
72.5°	748.1	755.5	760.4	762.9	760.4	753.0	765.3	782.6	780.1	792.4	780.1
75°	506.9	516.8	521.7	531.5	529.1	529.1	543.9	551.2	543.9	553.7	543.9
77.5°	287.9	295.3	310.1	319.9	329.8	337.1	347.0	351.9	349.4	354.4	349.4
80°	167.3	169.8	182.1	187.0	199.3	211.6	221.5	226.4	228.9	231.3	228.9
82.5°	96.0	98.4	103.4	108.3	118.1	128.0	137.8	145.2	145.2	147.7	145.2
85°	46.8	46.8	49.2	51.7	56.6	64.0	71.4	78.7	81.2	81.2	81.2
87.5°	7.4	7.4	9.8	9.8	12.3	14.8	19.7	24.6	27.1	27.1	27.1
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)