

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: P638677

Luminaire Tested: GWS-SA4F-735-U-5NQ-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638677
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30422.4 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

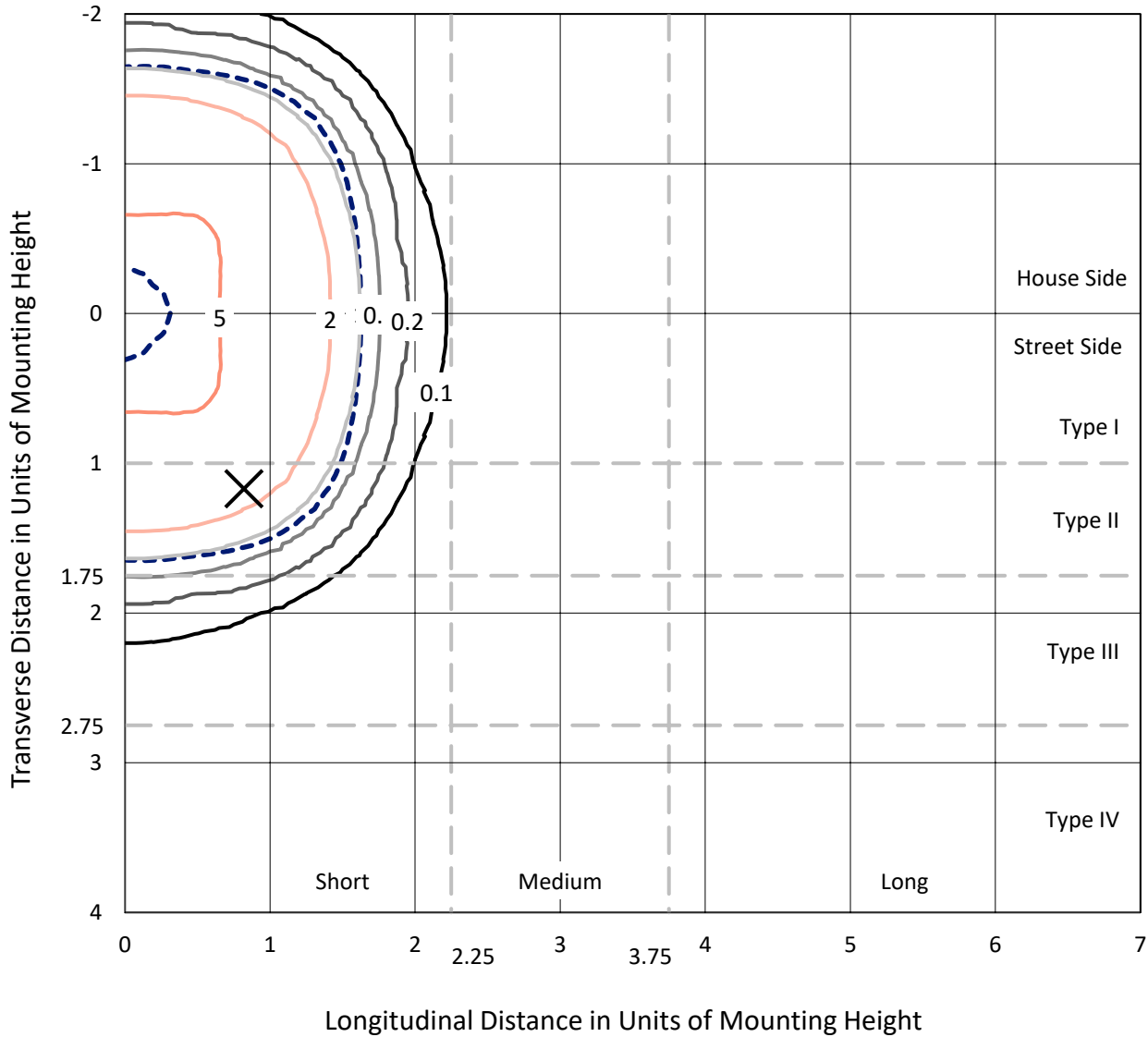
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

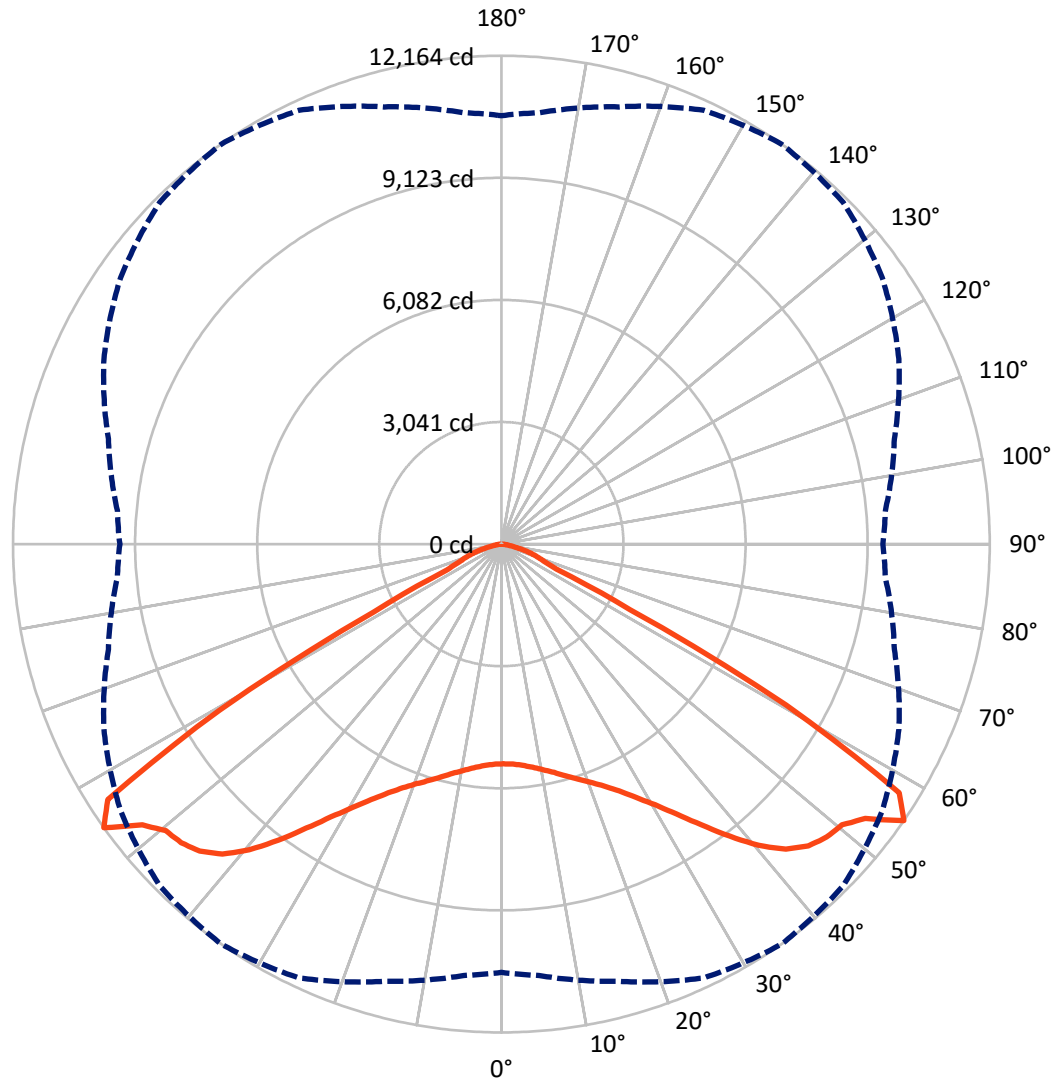
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 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	15211.2	0.0	15211.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15211.2	0.0	15211.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	30422.4	0.0	30422.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.8	1.8
10°-20°	1699.6	5.6
20°-30°	3145.6	10.3
30°-40°	5262.0	17.3
40°-50°	8018.4	26.4
50°-60°	8982.3	29.5
60°-70°	2125.3	7.0
70°-80°	573.0	1.9
80°-90°	82.4	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°	30422.4	100.0
0°-180°	30422.4	100.0

Coefficient of Utilization



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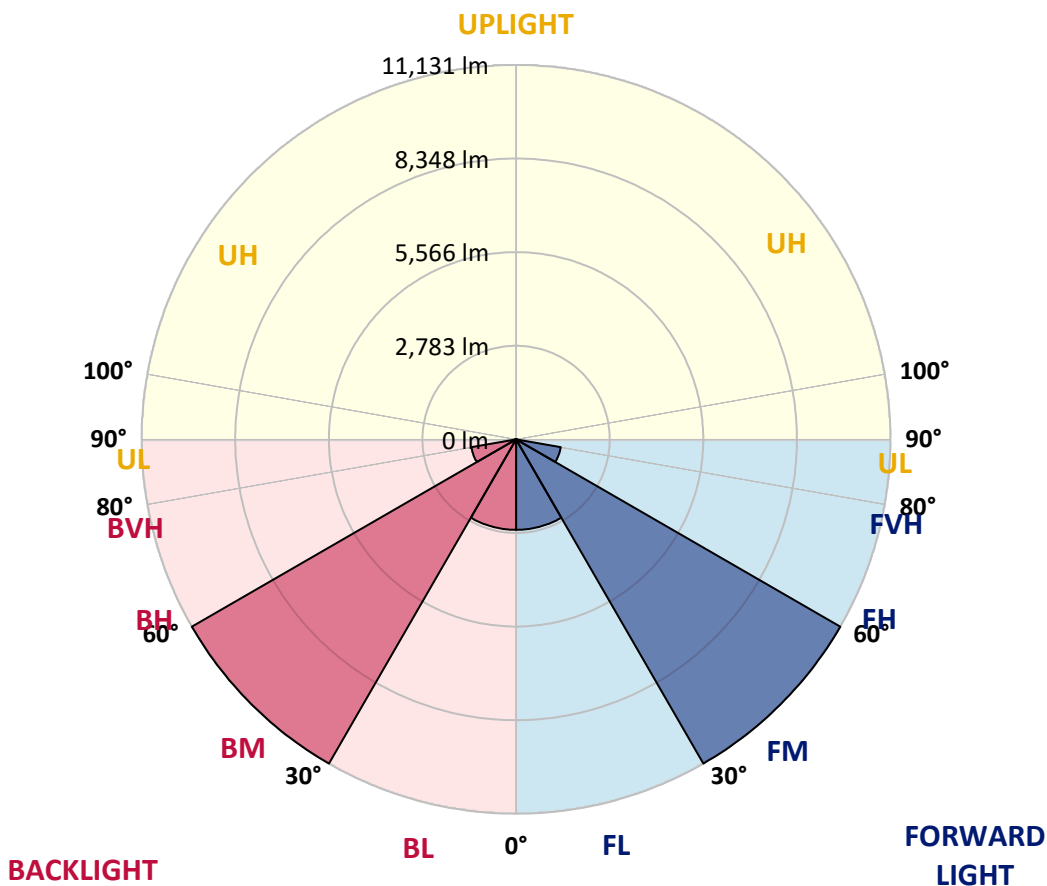
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2689.5	8.8			
FM (30°-60°)	11131.3	36.6			
FH (60°-80°)	1349.1	4.4			G1/1800
FVH (80°-90°)	41.2	0.1			G1/100
BL (0°-30°)	2689.5	8.8	B4/5000		
BM (30°-60°)	11131.3	36.6	B5		
BH (60°-80°)	1349.1	4.4	B3/2500		G1/1800
BVH (80°-90°)	41.2	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°	5473.1	5473.1	5473.1	5473.1	5473.1	5473.1	5473.1	5473.1	5473.1	5473.1	5473.1
2.5°	5461.0	5461.0	5470.7	5482.7	5485.1	5509.2	5504.3	5494.7	5489.9	5480.3	5501.9
5°	5521.2	5523.6	5530.8	5538.0	5533.2	5552.5	5545.2	5533.2	5526.0	5514.0	5535.6
7.5°	5600.6	5600.6	5607.8	5617.4	5612.6	5641.5	5627.0	5610.2	5598.2	5583.7	5603.0
10°	5672.7	5677.6	5684.8	5704.0	5713.6	5744.9	5735.3	5711.2	5692.0	5675.2	5696.8
12.5°	5781.0	5785.8	5793.0	5819.5	5836.3	5867.6	5853.2	5819.5	5790.6	5766.6	5790.6
15°	5920.5	5915.7	5935.0	5968.7	5990.3	6019.2	6002.3	5944.6	5906.1	5874.8	5898.9
17.5°	6062.5	6060.1	6079.3	6122.6	6153.9	6192.4	6163.5	6096.2	6055.3	6016.8	6040.8
20°	6216.4	6223.7	6242.9	6283.8	6329.5	6380.0	6356.0	6283.8	6238.1	6194.8	6214.0
22.5°	6406.5	6408.9	6430.6	6483.5	6543.6	6591.7	6577.3	6488.3	6430.6	6384.8	6408.9
25°	6635.0	6632.6	6661.5	6724.1	6808.3	6856.4	6825.1	6726.5	6663.9	6611.0	6630.2
27.5°	6897.3	6894.9	6938.2	7020.0	7140.3	7207.6	7142.7	7020.0	6933.4	6858.8	6875.6
30°	7226.9	7219.6	7267.8	7378.4	7534.8	7647.9	7551.6	7380.8	7267.8	7188.4	7205.2
32.5°	7592.5	7602.2	7662.3	7811.5	8008.7	8155.5	8011.1	7821.1	7669.5	7554.0	7573.3
35°	7994.3	7994.3	8117.0	8302.2	8583.7	8778.6	8554.8	8280.6	8078.5	7919.7	7924.5
37.5°	8441.8	8446.6	8607.8	8862.8	9230.8	9459.4	9156.3	8817.1	8571.7	8400.9	8391.2
40°	8987.9	9002.3	9168.3	9452.2	9866.0	10075.3	9750.5	9418.5	9168.3	8966.2	8947.0
42.5°	9603.7	9608.5	9784.2	10039.2	10388.0	10513.1	10258.1	9986.3	9781.8	9598.9	9579.7
45°	10190.7	10178.7	10330.3	10520.3	10722.4	10734.4	10592.5	10481.8	10303.8	10147.4	10118.6
47.5°	10647.8	10638.2	10775.3	10878.8	10902.8	10785.0	10830.7	10847.5	10640.6	10428.9	10373.6
50°	10926.9	10946.1	11076.1	11133.8	10991.9	10799.4	10972.6	10929.3	10633.4	10356.7	10267.7
52.5°	11095.3	11124.2	11350.3	11497.1	11350.3	11167.5	11191.5	10936.5	10510.7	10145.0	10029.6
55°	10669.5	10785.0	11273.3	11922.9	12163.5	12035.9	11578.9	10922.1	10133.0	9601.3	9502.7
57.5°	7907.7	8090.5	8814.7	10222.0	11684.7	12149.0	10813.8	9156.3	7960.6	7277.4	7219.6
60°	4036.8	4241.3	4821.1	6267.0	8148.3	8802.6	7532.4	5862.8	4659.9	4106.6	4044.1
62.5°	1647.9	1681.6	1871.7	2429.8	3601.4	4154.7	3649.5	2562.1	1924.6	1773.0	1775.4
65°	1296.7	1303.9	1294.3	1328.0	1508.4	1674.4	1546.9	1359.2	1325.6	1342.4	1330.4
67.5°	1130.7	1133.1	1125.9	1125.9	1133.1	1125.9	1140.3	1147.5	1152.4	1171.6	1159.6
70°	945.5	947.9	947.9	952.7	950.3	938.2	959.9	969.5	971.9	983.9	976.7
72.5°	731.3	738.6	743.4	745.8	743.4	736.2	748.2	765.0	762.6	774.7	762.6
75°	495.6	505.2	510.0	519.6	517.2	517.2	531.7	538.9	531.7	541.3	531.7
77.5°	281.5	288.7	303.1	312.7	322.4	329.6	339.2	344.0	341.6	346.4	341.6
80°	163.6	166.0	178.0	182.8	194.9	206.9	216.5	221.3	223.7	226.1	223.7
82.5°	93.8	96.2	101.0	105.9	115.5	125.1	134.7	141.9	141.9	144.3	141.9
85°	45.7	45.7	48.1	50.5	55.3	62.5	69.8	77.0	79.4	79.4	79.4
87.5°	7.2	7.2	9.6	9.6	12.0	14.4	19.2	24.1	26.5	26.5	26.5
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)