

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: P643408

Luminaire Tested: GWS-SA6E-830-U-5NQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643408
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-830-U-5NQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37167.7 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

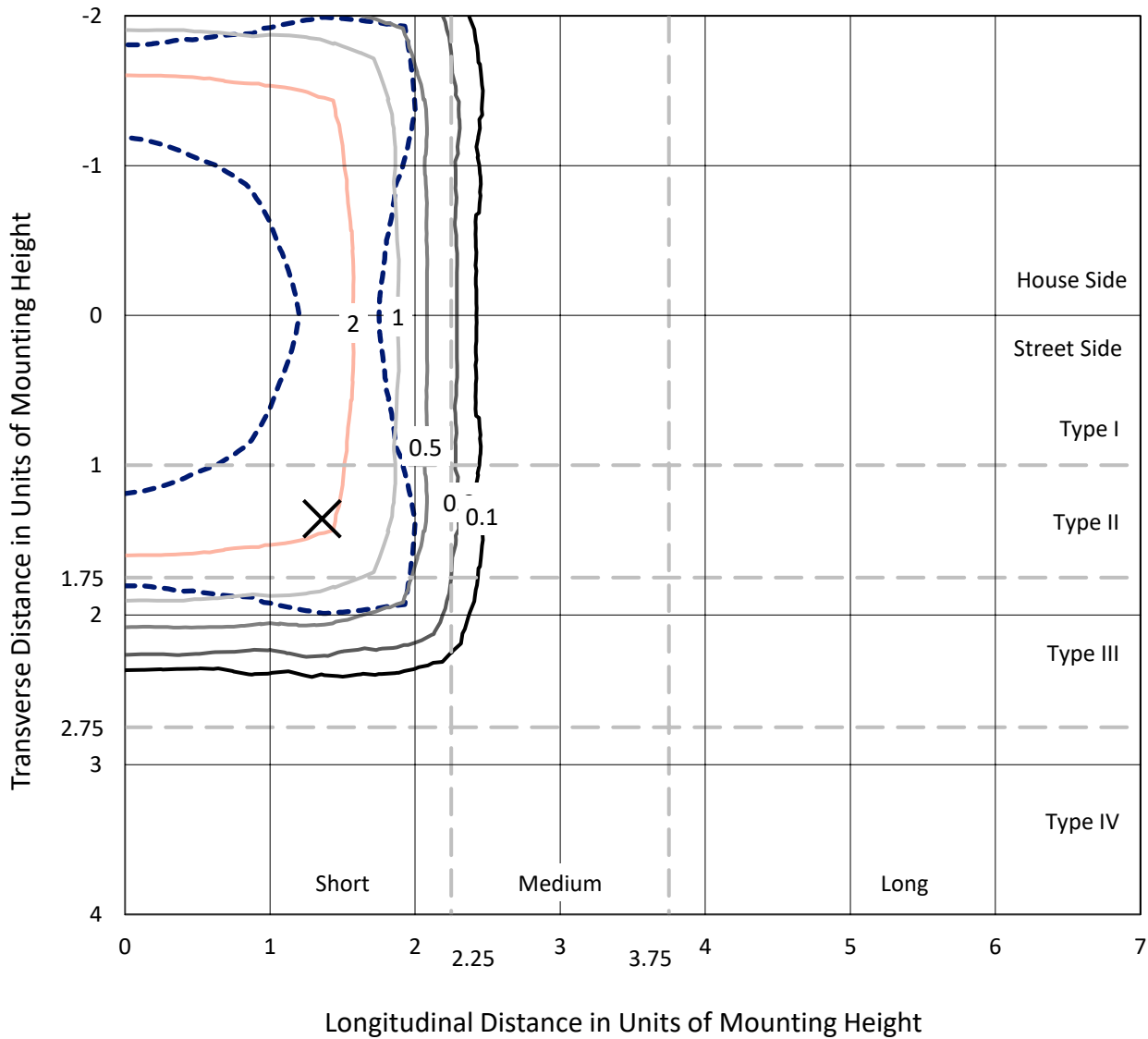
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

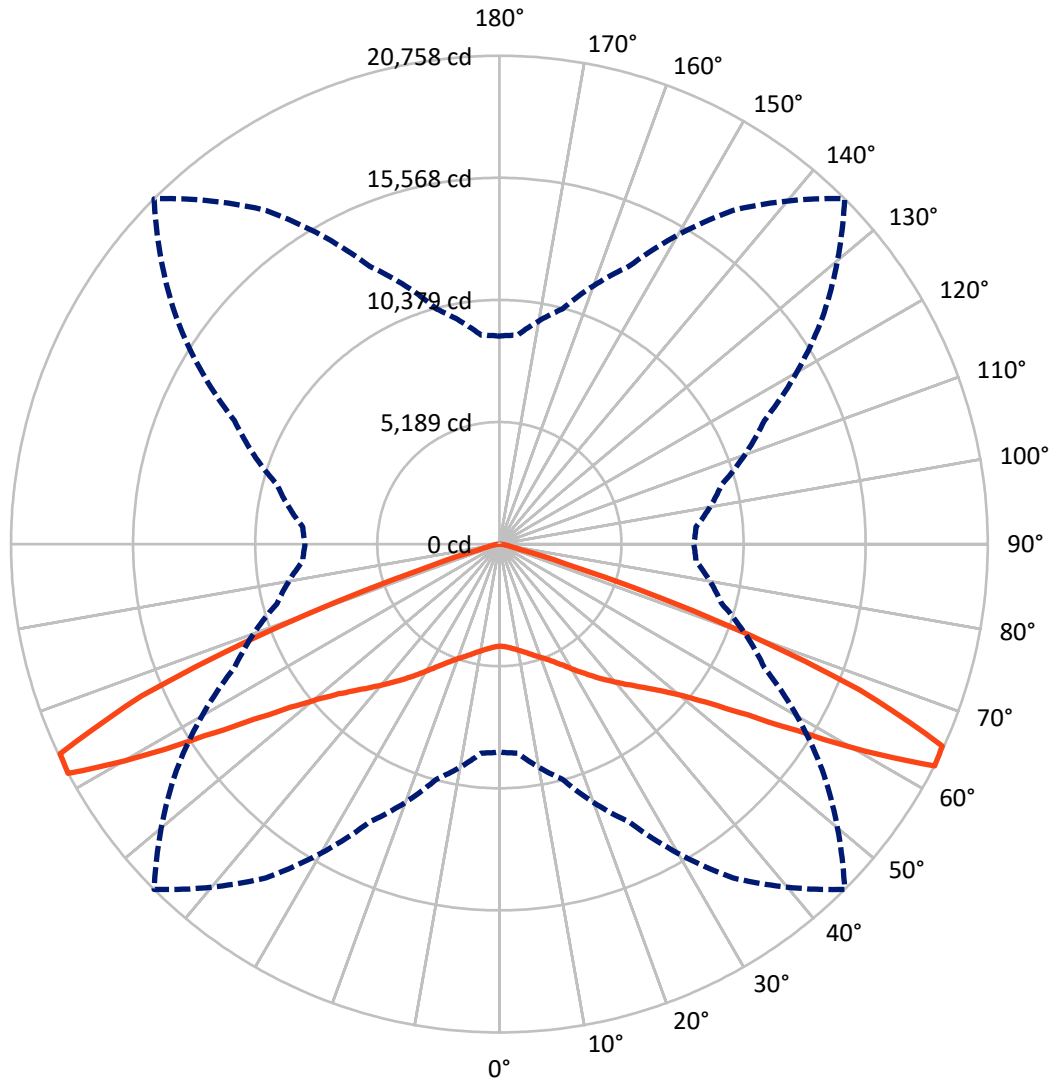
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18583.9	0.0	18583.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18583.9	0.0	18583.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	37167.7	0.0	37167.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.4	1.1
10°-20°	1371.9	3.7
20°-30°	2595.6	7.0
30°-40°	4368.7	11.8
40°-50°	6979.9	18.8
50°-60°	11251.2	30.3
60°-70°	9179.8	24.7
70°-80°	891.4	2.4
80°-90°	103.7	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°	37167.7	100.0
0°-180°	37167.7	100.0

Coefficient of Utilization



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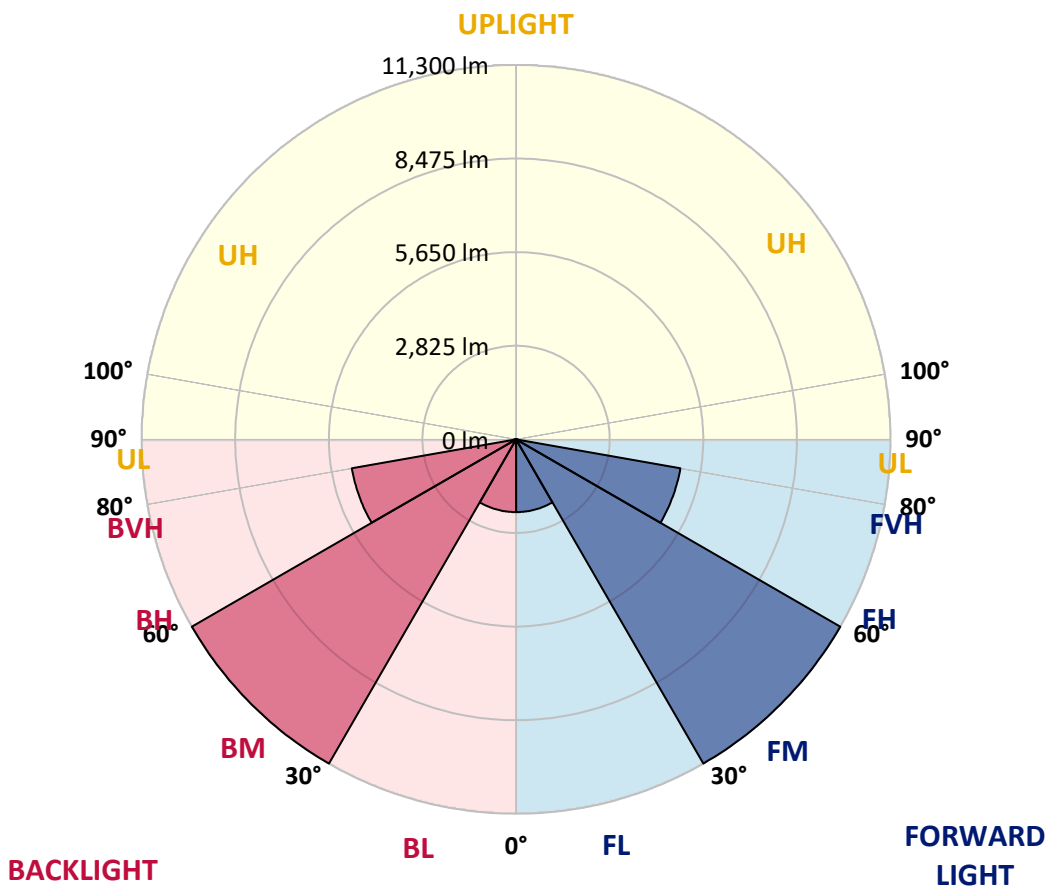
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2196.5	5.9			
FM (30°-60°)	11299.9	30.4			
FH (60°-80°)	5035.6	13.5			G3/7500
FVH (80°-90°)	51.9	0.1			G1/100
BL (0°-30°)	2196.5	5.9	B3/2500		
BM (30°-60°)	11299.9	30.4	B5		
BH (60°-80°)	5035.6	13.5	B5		G3/7500
BVH (80°-90°)	51.9	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4336.1	4336.1	4336.1	4336.1	4336.1	4336.1	4336.1	4336.1	4336.1	4336.1	4336.1
2.5°	4331.0	4331.0	4341.2	4348.9	4343.8	4364.2	4361.6	4356.5	4354.0	4346.3	4369.3
5°	4389.6	4389.6	4397.3	4404.9	4392.2	4417.7	4407.5	4402.4	4399.8	4389.6	4410.0
7.5°	4455.9	4463.6	4466.1	4478.9	4471.2	4499.3	4491.6	4481.4	4476.3	4463.6	4481.4
10°	4529.8	4534.9	4537.5	4560.4	4563.0	4596.1	4588.5	4575.7	4565.5	4552.8	4578.3
12.5°	4629.3	4631.8	4639.5	4667.5	4675.2	4700.6	4698.1	4680.2	4667.5	4649.7	4677.7
15°	4756.7	4759.3	4772.0	4800.1	4812.8	4843.4	4833.2	4805.2	4787.3	4766.9	4789.9
17.5°	4889.3	4899.5	4912.2	4940.3	4958.1	4993.8	4981.0	4950.5	4935.2	4914.8	4930.1
20°	5060.1	5062.6	5070.3	5100.9	5113.6	5154.4	5156.9	5126.4	5118.7	5098.3	5121.3
22.5°	5248.7	5251.3	5258.9	5292.0	5315.0	5340.5	5355.8	5337.9	5325.2	5299.7	5327.7
25°	5457.7	5483.2	5490.9	5531.7	5557.2	5572.5	5590.3	5582.7	5564.8	5534.2	5547.0
27.5°	5750.9	5756.0	5768.7	5814.6	5829.9	5845.2	5863.1	5865.6	5840.1	5804.4	5822.3
30°	6084.8	6082.3	6110.3	6146.0	6158.8	6171.5	6197.0	6212.3	6179.2	6140.9	6158.8
32.5°	6426.4	6457.0	6492.7	6525.8	6518.2	6523.3	6564.1	6592.1	6546.2	6477.4	6492.7
35°	6811.3	6831.7	6877.6	6926.1	6915.9	6908.2	6933.7	6961.7	6898.0	6808.8	6831.7
37.5°	7206.5	7237.1	7305.9	7364.5	7349.2	7313.5	7341.6	7372.2	7311.0	7209.0	7198.8
40°	7647.5	7695.9	7795.3	7843.8	7803.0	7734.1	7782.6	7856.5	7795.3	7678.1	7650.0
42.5°	8164.9	8223.6	8323.0	8396.9	8307.7	8195.5	8277.1	8384.2	8368.9	8213.4	8164.9
45°	8804.8	8843.0	8965.4	9001.1	8868.5	8713.0	8860.9	9024.0	8985.8	8817.5	8753.8
47.5°	9500.7	9559.3	9666.4	9732.7	9518.5	9324.8	9531.3	9750.5	9709.7	9551.7	9477.8
50°	10387.8	10464.3	10604.5	10660.6	10364.9	10143.1	10408.2	10686.1	10607.0	10395.5	10298.6
52.5°	11353.9	11415.1	11654.7	11766.9	11489.0	11249.4	11481.4	11754.2	11585.9	11305.5	11175.5
55°	12205.4	12266.5	12618.3	12990.5	12977.8	12812.1	12929.3	12934.4	12478.1	12014.2	11876.5
57.5°	12388.9	12450.1	13120.5	14094.3	14782.6	14973.7	14629.6	13905.6	12756.0	11942.8	11787.3
60°	11410.0	11478.8	12544.4	14323.7	16587.4	17864.5	16278.9	13885.2	11896.9	10795.7	10647.8
62.5°	8840.5	8914.4	10347.0	13018.5	17316.4	20757.8	16758.1	12424.6	9786.2	8391.8	8261.8
65°	4221.4	4221.4	6041.5	9337.6	15863.4	20688.9	15371.4	9192.3	5891.1	4524.8	4412.6
67.5°	1045.2	1050.3	1555.0	3635.1	10790.6	16510.9	10966.5	4412.6	2075.0	1468.3	1430.1
70°	652.6	650.0	721.4	984.0	3775.3	10020.7	4484.0	1330.7	843.8	744.4	739.3
72.5°	507.3	507.3	543.0	629.6	989.1	3413.3	1307.7	739.3	611.8	550.6	550.6
75°	400.2	400.2	425.7	471.6	583.8	879.5	695.9	548.1	474.1	433.4	428.3
77.5°	298.3	303.3	323.7	354.3	397.7	494.5	441.0	413.0	369.6	339.0	328.8
80°	193.7	201.4	226.9	244.7	260.0	326.3	288.1	300.8	280.4	244.7	239.6
82.5°	104.5	107.1	137.7	142.8	147.9	178.4	183.5	191.2	198.8	155.5	145.3
85°	38.2	38.2	45.9	53.5	58.6	63.7	86.7	107.1	112.2	89.2	86.7
87.5°	7.6	7.6	7.6	5.1	5.1	5.1	15.3	28.0	45.9	35.7	35.7
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)