

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: P643410

Luminaire Tested: GWS-SA6E-830-U-5WQ-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643410
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-SAGE-830-U-5WQ-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30032.4 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

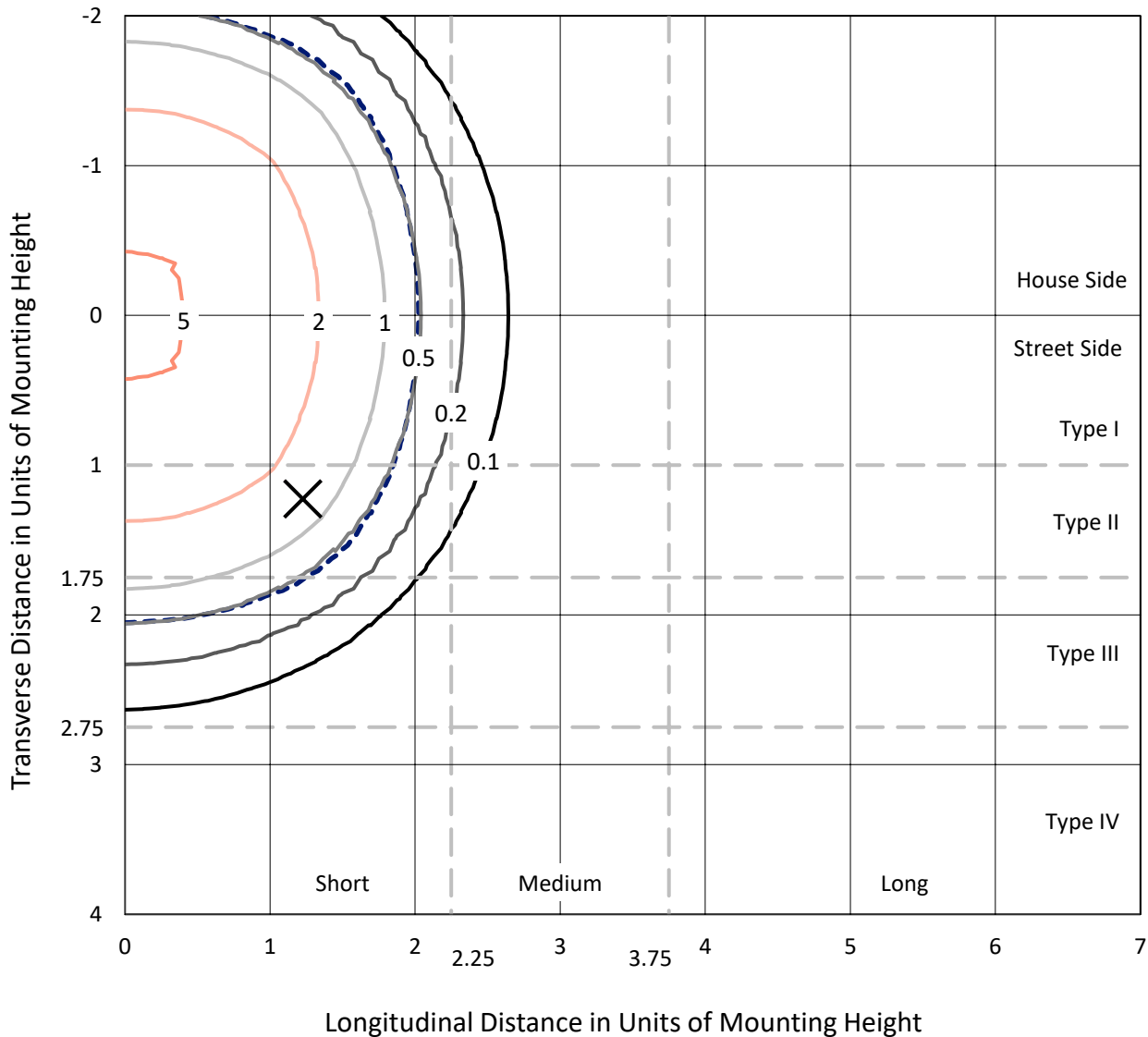
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

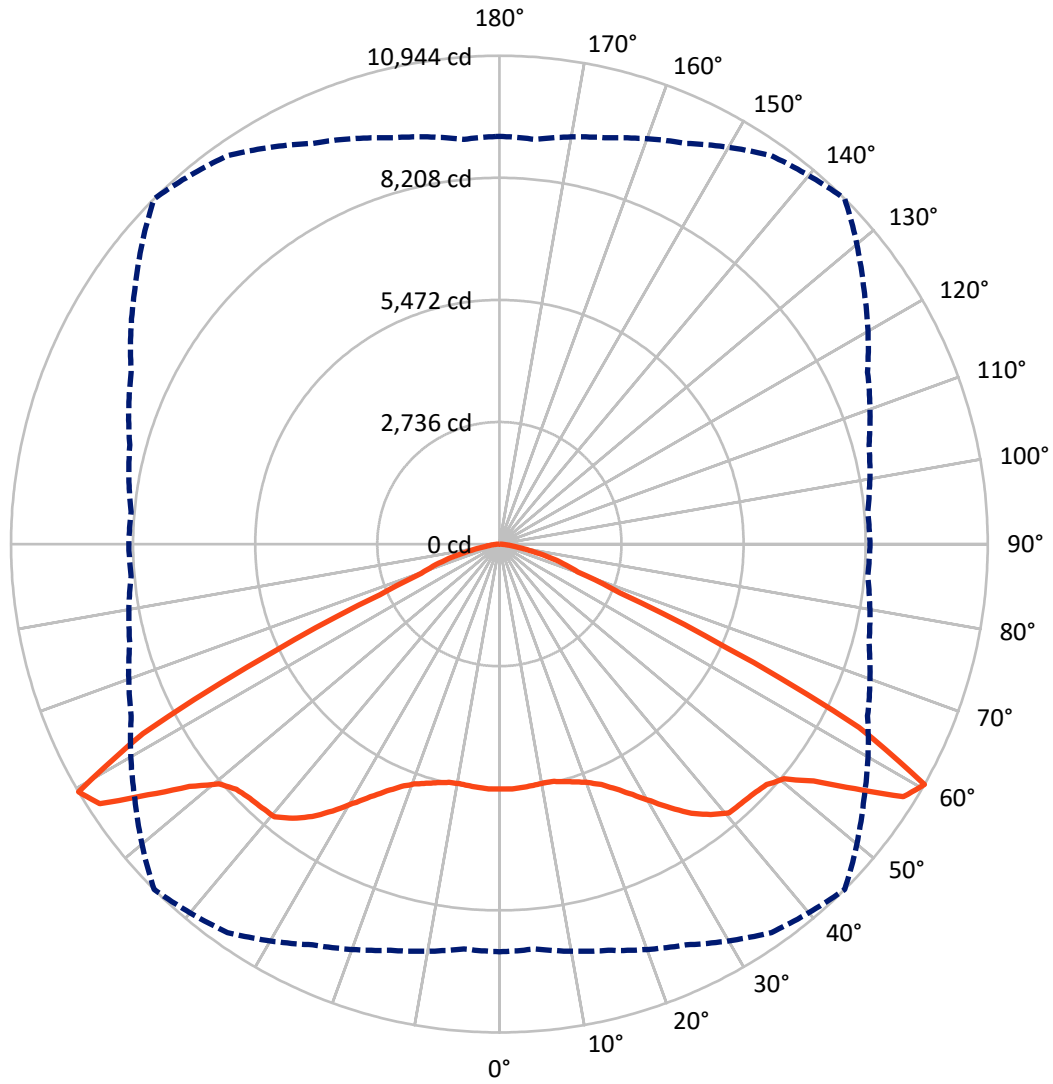
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 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	15016.2	0.0	15016.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15016.2	0.0	15016.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	30032.4	0.0	30032.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.5	1.7
10°-20°	1565.6	5.2
20°-30°	2769.7	9.2
30°-40°	4459.4	14.8
40°-50°	6129.3	20.4
50°-60°	8167.9	27.2
60°-70°	5090.6	17.0
70°-80°	1170.6	3.9
80°-90°	158.8	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°	30032.4	100.0
0°-180°	30032.4	100.0

Coefficient of Utilization

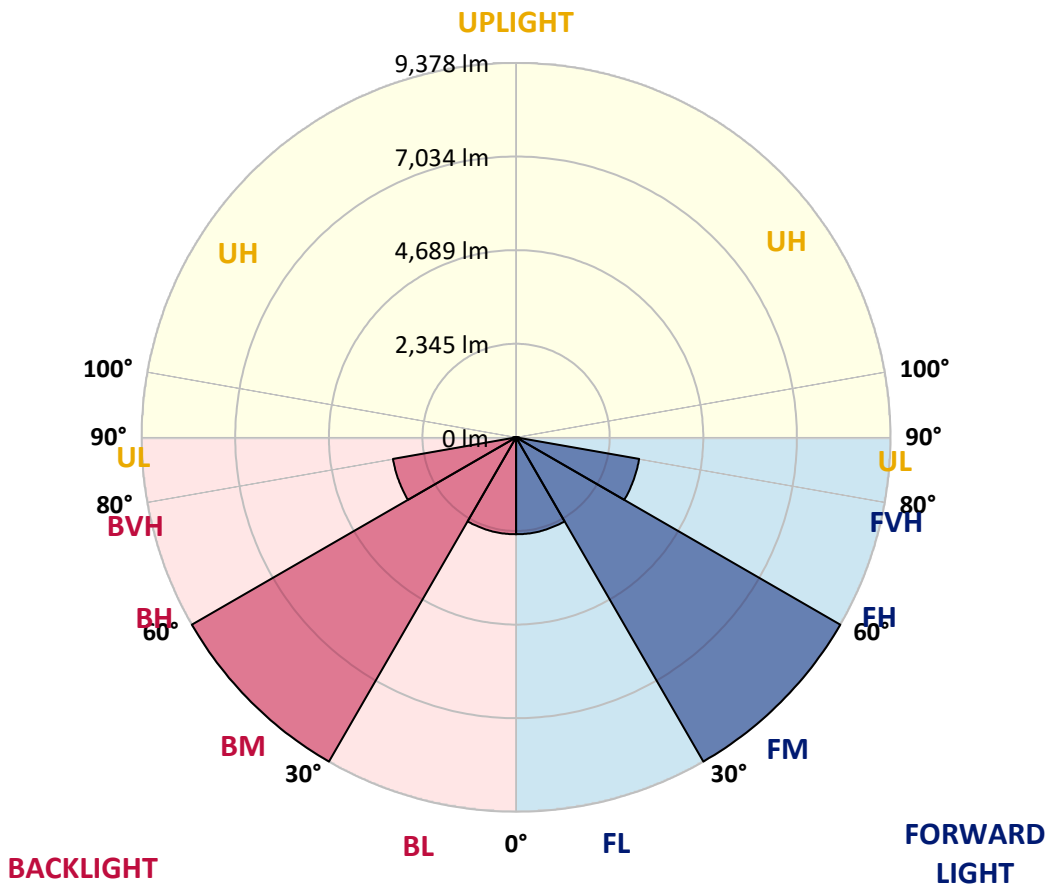


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2427.9	8.1			
FM	(30°-60°)	9378.3	31.2			
FH	(60°-80°)	3130.6	10.4			G2/5000
FVH	(80°-90°)	79.4	0.3			G1/100
BL	(0°-30°)	2427.9	8.1	B3/2500		
BM	(30°-60°)	9378.3	31.2	B5		
BH	(60°-80°)	3130.6	10.4	B4/5000		G2/5000
BVH	(80°-90°)	79.4	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°	5488.4	5488.4	5488.4	5488.4	5488.4	5488.4	5488.4	5488.4	5488.4	5488.4	5488.4
2.5°	5450.1	5455.2	5465.4	5473.1	5483.3	5493.5	5498.6	5488.4	5483.3	5462.9	5485.8
5°	5455.2	5460.3	5468.0	5468.0	5470.5	5478.2	5478.2	5465.4	5452.7	5429.7	5455.2
7.5°	5447.6	5452.7	5455.2	5452.7	5455.2	5457.8	5452.7	5437.4	5424.6	5404.3	5424.6
10°	5434.8	5439.9	5445.0	5439.9	5434.8	5442.5	5442.5	5432.3	5424.6	5404.3	5427.2
12.5°	5462.9	5470.5	5473.1	5460.3	5455.2	5457.8	5457.8	5447.6	5447.6	5429.7	5455.2
15°	5529.2	5534.3	5526.6	5511.3	5513.9	5521.5	5503.7	5478.2	5473.1	5465.4	5485.8
17.5°	5580.1	5585.2	5577.6	5567.4	5585.2	5603.1	5570.0	5521.5	5506.2	5501.1	5524.1
20°	5636.2	5643.9	5633.7	5646.4	5682.1	5702.5	5661.7	5595.4	5564.9	5557.2	5585.2
22.5°	5728.0	5738.2	5738.2	5766.2	5819.8	5852.9	5801.9	5712.7	5666.8	5654.1	5682.1
25°	5873.3	5881.0	5888.6	5944.7	6031.4	6077.2	5995.7	5873.3	5809.6	5789.2	5804.5
27.5°	6074.7	6087.4	6100.2	6181.8	6288.8	6355.1	6237.8	6084.9	6005.9	5965.1	5995.7
30°	6314.3	6332.2	6362.7	6454.5	6604.9	6678.8	6528.4	6342.4	6253.1	6209.8	6250.6
32.5°	6640.6	6643.2	6666.1	6768.1	6966.9	7051.0	6862.4	6655.9	6564.1	6513.1	6536.1
35°	7028.1	7030.6	6994.9	7099.5	7313.6	7407.9	7186.1	6977.1	6900.6	6885.3	6944.0
37.5°	7425.8	7402.8	7367.1	7413.0	7629.7	7690.9	7456.3	7277.9	7244.8	7272.8	7359.5
40°	7708.7	7670.5	7599.1	7632.2	7851.5	7922.8	7673.0	7504.8	7494.6	7563.4	7667.9
42.5°	7892.3	7851.5	7767.3	7767.3	7917.7	7948.3	7754.6	7665.4	7688.3	7767.3	7866.8
45°	7981.5	7958.5	7910.1	7884.6	7968.7	7981.5	7833.6	7797.9	7841.3	7879.5	7956.0
47.5°	8050.3	8050.3	8035.0	8009.5	8047.8	8055.4	7945.8	7935.6	7991.7	7991.7	8042.7
50°	8172.7	8185.4	8205.8	8200.7	8241.5	8267.0	8185.4	8170.1	8193.1	8119.1	8144.6
52.5°	8493.9	8527.0	8585.6	8631.5	8736.0	8815.1	8669.8	8547.4	8427.6	8264.4	8269.5
55°	9070.0	9085.3	9200.0	9335.1	9511.0	9671.6	9373.3	8993.5	8733.5	8542.3	8544.8
57.5°	9556.9	9579.8	9748.1	10031.0	10426.1	10676.0	10015.7	9381.0	9013.9	8779.4	8787.0
60°	9136.3	9105.7	9424.3	9908.7	10625.0	10943.6	9969.8	9103.1	8575.4	8284.8	8305.2
62.5°	7068.9	7010.2	7364.6	7871.9	8730.9	9049.6	8152.3	7321.2	6821.6	6594.7	6561.6
65°	4303.0	4249.5	4504.4	4815.4	5396.6	5598.0	5187.6	4746.6	4310.7	4173.0	4134.8
67.5°	2342.7	2335.0	2403.9	2556.8	2811.7	2906.1	2827.0	2618.0	2505.8	2409.0	2409.0
70°	1858.4	1843.1	1830.3	1832.9	1855.8	1868.5	1871.1	1860.9	1873.6	1876.2	1866.0
72.5°	1539.7	1534.6	1509.1	1511.7	1501.5	1496.4	1514.2	1524.4	1544.8	1547.4	1547.4
75°	1116.5	1103.8	1116.5	1119.1	1108.9	1108.9	1121.6	1119.1	1129.3	1134.4	1106.3
77.5°	634.7	634.7	652.6	673.0	688.3	688.3	701.0	701.0	713.8	711.2	706.1
80°	349.2	349.2	359.4	372.2	387.5	402.8	415.5	418.1	425.7	423.2	415.5
82.5°	198.8	201.4	206.5	214.1	229.4	242.2	254.9	257.5	265.1	265.1	257.5
85°	94.3	91.8	94.3	99.4	107.1	117.3	130.0	137.7	142.8	142.8	137.7
87.5°	17.8	20.4	17.8	20.4	22.9	30.6	35.7	40.8	48.4	51.0	45.9
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)