

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: P641424

Luminaire Tested: GWS-SA5F-830-U-5MQ-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641424  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5F-830-U-5MQ-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

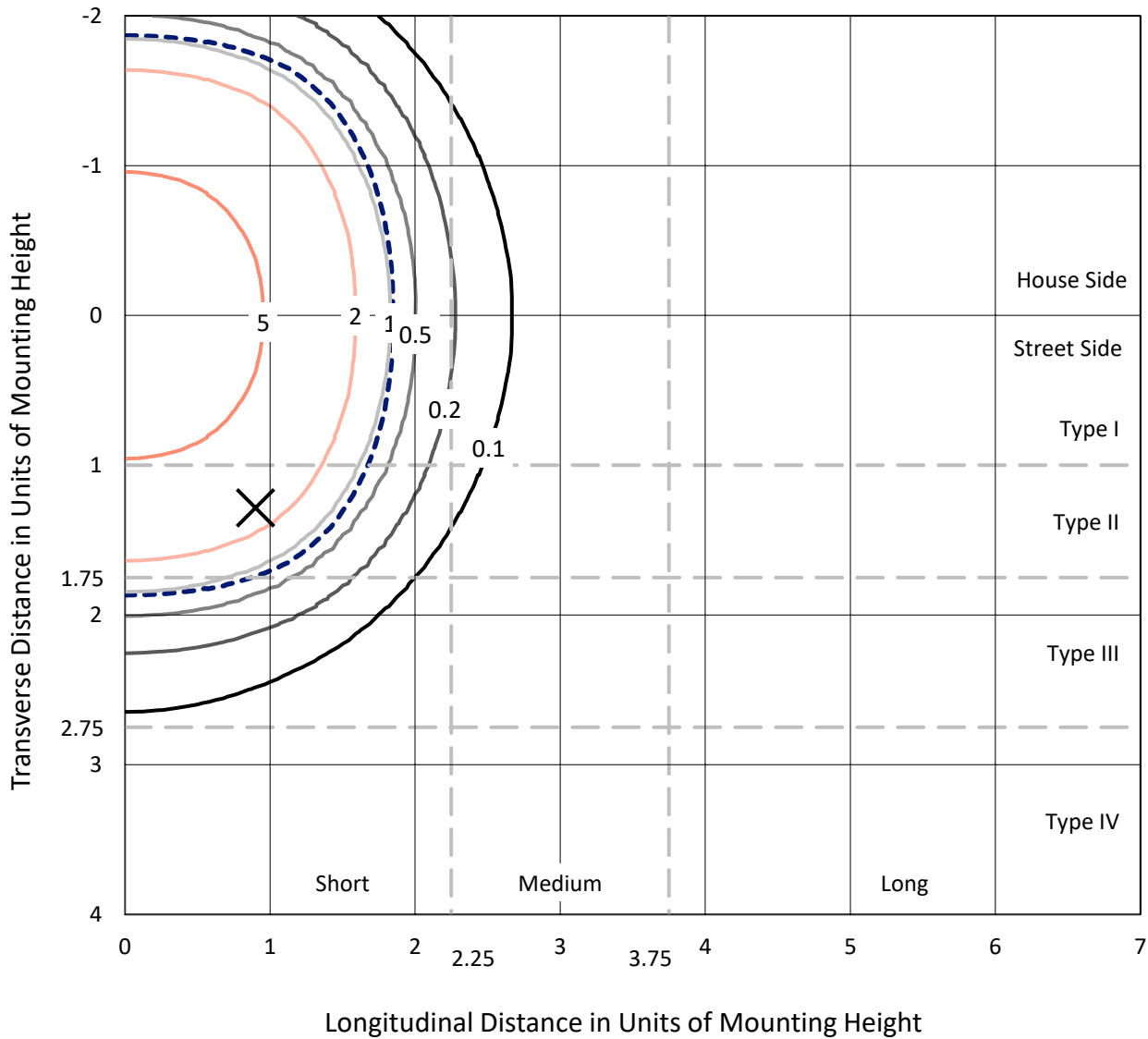
Lumens per Lamp: N/A  
Luminaire Lumens: 29031.4 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

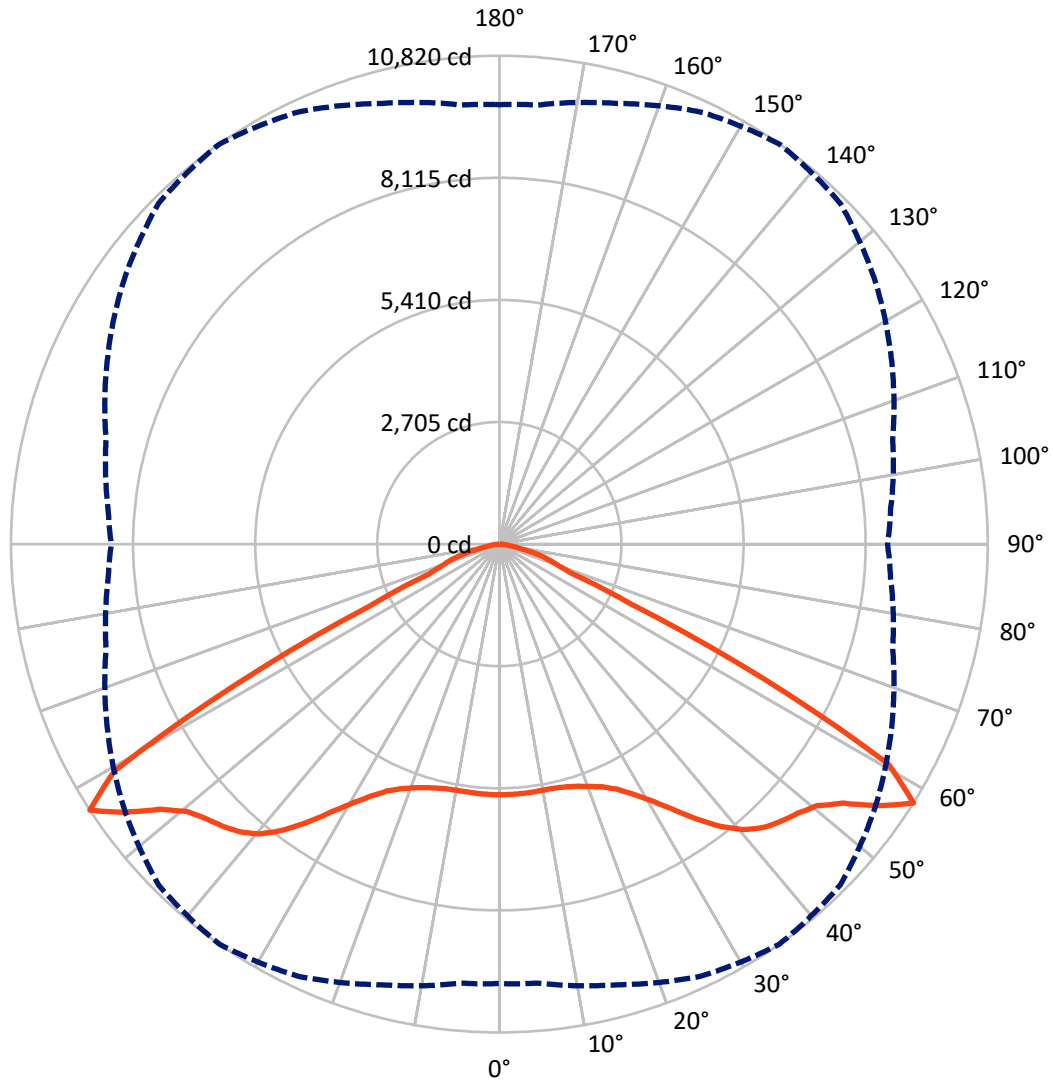
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14515.7	0.0	14515.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14515.7	0.0	14515.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	29031.4	0.0	29031.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	528.4	1.8
10°-20°	1576.6	5.4
20°-30°	2750.9	9.5
30°-40°	4510.9	15.5
40°-50°	6643.5	22.9
50°-60°	8478.2	29.2
60°-70°	3573.1	12.3
70°-80°	853.5	2.9
80°-90°	116.2	0.4
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°	29031.4	100.0
0°-180°	29031.4	100.0

**Coefficient of Utilization**



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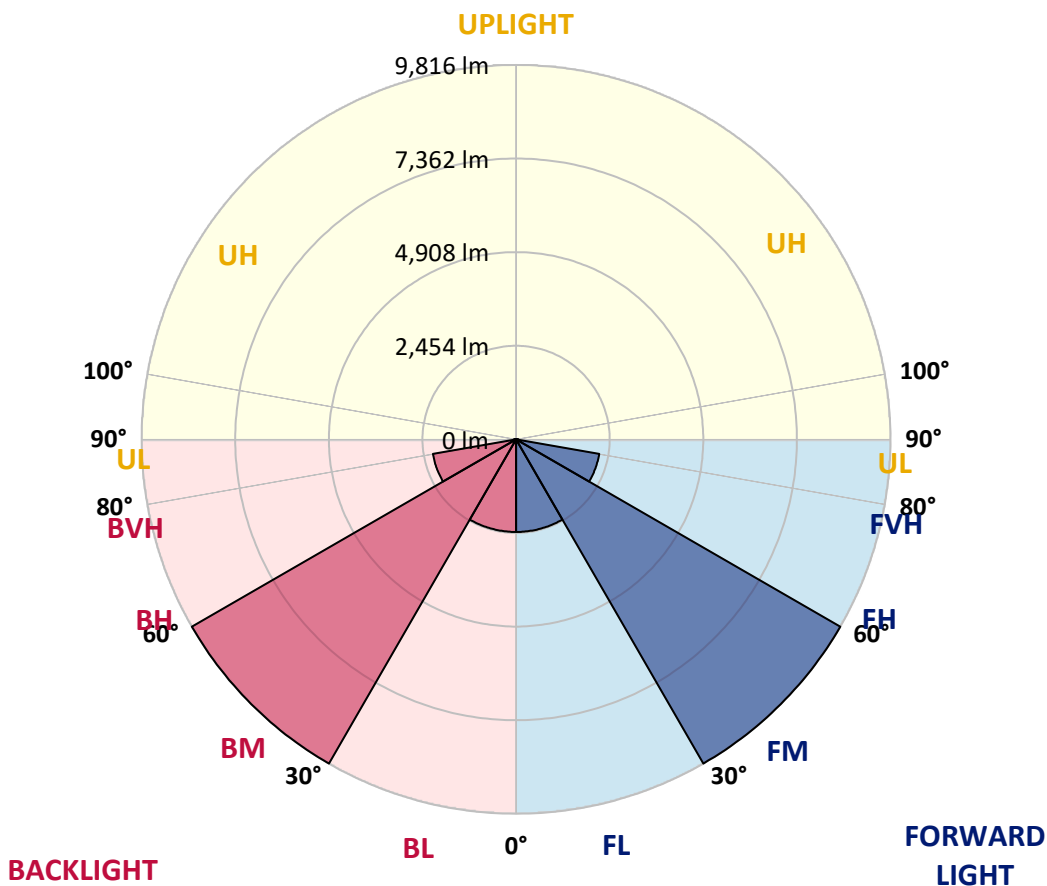
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2428.0	8.4			
FM (30°-60°)	9816.3	33.8			
FH (60°-80°)	2213.3	7.6			G2/5000
FVH (80°-90°)	58.1	0.2			G1/100
BL (0°-30°)	2428.0	8.4	B3/2500		
BM (30°-60°)	9816.3	33.8	B5		
BH (60°-80°)	2213.3	7.6	B3/2500		G2/5000
BVH (80°-90°)	58.1	0.2			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°	5554.8	5554.8	5554.8	5554.8	5554.8	5554.8	5554.8	5554.8	5554.8	5554.8	5554.8
2.5°	5521.5	5521.5	5533.4	5545.3	5550.1	5571.5	5569.1	5562.0	5557.2	5542.9	5562.0
5°	5533.4	5533.4	5542.9	5550.1	5547.7	5564.3	5557.2	5545.3	5538.2	5523.9	5545.3
7.5°	5531.1	5531.1	5538.2	5545.3	5540.6	5554.8	5542.9	5526.3	5514.4	5500.2	5519.2
10°	5500.2	5504.9	5512.0	5528.7	5535.8	5557.2	5540.6	5514.4	5495.4	5478.8	5497.8
12.5°	5495.4	5500.2	5509.7	5531.1	5542.9	5573.8	5552.4	5509.7	5481.1	5459.7	5478.8
15°	5516.8	5521.5	5535.8	5562.0	5581.0	5614.2	5583.3	5523.9	5483.5	5455.0	5471.6
17.5°	5542.9	5550.1	5571.5	5609.5	5640.4	5676.0	5638.0	5566.7	5509.7	5471.6	5485.9
20°	5571.5	5581.0	5614.2	5671.3	5728.3	5773.5	5726.0	5630.9	5562.0	5512.0	5526.3
22.5°	5621.4	5633.3	5676.0	5756.9	5842.4	5909.0	5849.6	5721.2	5630.9	5566.7	5578.6
25°	5723.6	5737.8	5792.5	5890.0	6011.2	6092.0	6008.8	5863.8	5737.8	5659.4	5671.3
27.5°	5904.2	5911.4	5982.7	6111.0	6260.8	6353.5	6253.6	6082.5	5942.3	5851.9	5861.4
30°	6141.9	6163.3	6234.6	6403.4	6581.6	6705.2	6574.5	6372.5	6210.9	6101.5	6111.0
32.5°	6431.9	6446.2	6553.1	6729.0	6985.7	7128.3	6950.1	6710.0	6515.1	6382.0	6391.5
35°	6812.2	6824.1	6926.3	7149.7	7461.1	7594.2	7389.8	7114.1	6888.3	6762.3	6797.9
37.5°	7266.2	7287.6	7361.3	7582.3	7929.4	8060.1	7824.8	7568.1	7332.8	7216.3	7242.4
40°	7753.5	7751.1	7810.5	8005.4	8321.5	8402.4	8190.8	7986.4	7784.4	7708.3	7751.1
42.5°	8171.8	8159.9	8202.7	8364.3	8583.0	8590.1	8449.9	8335.8	8193.2	8140.9	8181.3
45°	8464.2	8468.9	8533.1	8644.8	8756.5	8697.1	8654.3	8635.3	8523.6	8452.3	8459.4
47.5°	8694.7	8713.7	8815.9	8892.0	8906.3	8806.4	8865.9	8894.4	8801.7	8692.3	8661.4
50°	8899.1	8930.0	9063.1	9144.0	9113.1	8987.1	9103.5	9146.3	8941.9	8732.7	8670.9
52.5°	9269.9	9305.6	9467.2	9571.8	9536.1	9410.2	9519.5	9367.4	9022.7	8766.0	8687.6
55°	9861.8	9878.4	10075.7	10246.8	10230.2	10075.7	9987.8	9650.2	9231.9	8965.7	8892.0
57.5°	9735.8	9764.3	10106.6	10563.0	10819.7	10679.4	10163.6	9588.4	9020.4	8699.5	8599.6
60°	7660.8	7729.7	8155.2	8958.6	9899.8	9897.4	8939.5	8045.8	7361.3	6935.8	6893.0
62.5°	4473.3	4520.9	4908.3	5721.2	6565.0	6617.3	5944.6	5331.4	4732.4	4444.8	4307.0
65°	2117.8	2115.4	2269.9	2636.0	3206.4	3251.6	3049.6	2714.4	2360.3	2262.8	2236.7
67.5°	1564.0	1564.0	1552.1	1578.3	1687.6	1711.4	1687.6	1632.9	1599.7	1621.0	1606.8
70°	1357.2	1359.6	1345.3	1338.2	1338.2	1331.1	1340.6	1362.0	1376.2	1404.8	1390.5
72.5°	1100.5	1102.9	1102.9	1105.3	1107.6	1098.1	1112.4	1124.3	1126.7	1136.2	1126.7
75°	782.0	786.8	801.0	812.9	822.4	822.4	827.2	829.5	820.0	831.9	812.9
77.5°	430.2	435.0	461.1	482.5	503.9	506.3	513.4	518.2	513.4	522.9	508.7
80°	237.7	242.4	254.3	263.8	280.5	294.7	304.2	309.0	309.0	316.1	309.0
82.5°	135.5	140.2	147.4	152.1	166.4	178.3	187.8	194.9	194.9	197.3	192.5
85°	64.2	64.2	68.9	73.7	80.8	85.6	97.5	104.6	104.6	109.3	104.6
87.5°	9.5	11.9	14.3	14.3	19.0	23.8	28.5	30.9	35.7	38.0	38.0
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)