

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: P640990

Luminaire Tested: GWS-SA5F-722-U-5WQ-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640990  
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-SA5F-722-U-5WQ-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

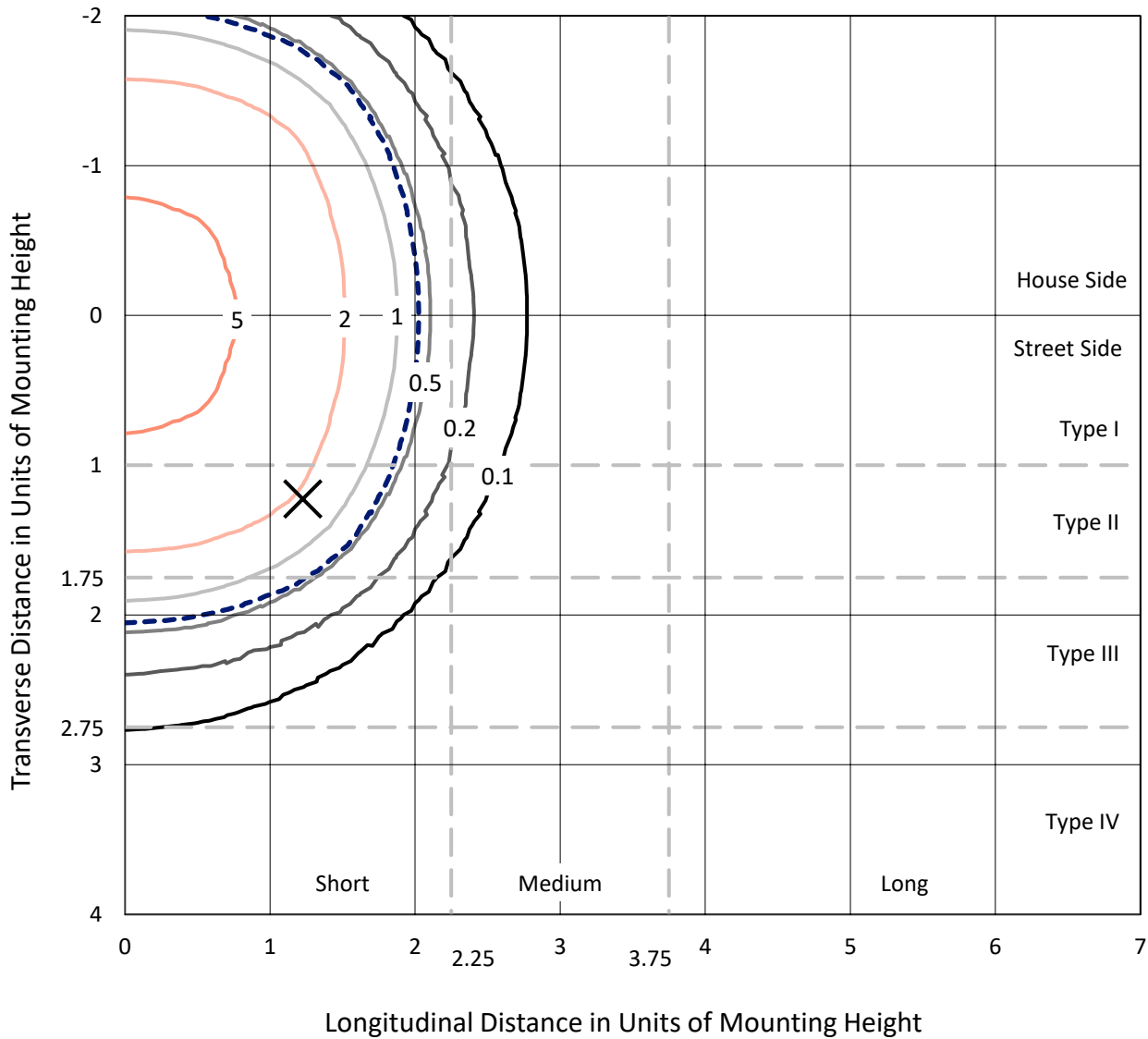
Lumens per Lamp: N/A  
Luminaire Lumens: 25965 lumens  
Efficiency: N/A  
Efficacy: 83.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

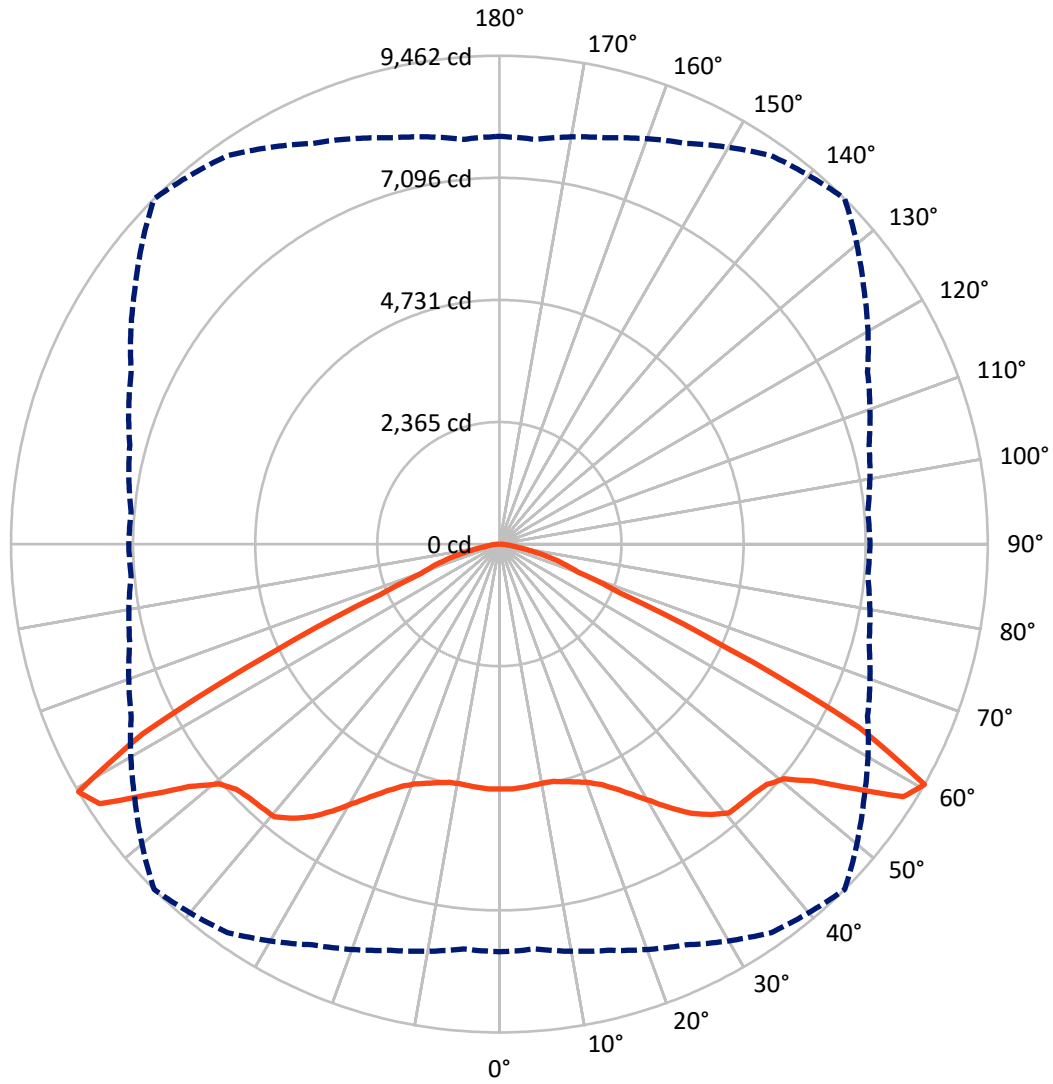
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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
<b>House Side</b>	Lumens	12982.5	0.0	12982.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12982.5	0.0	12982.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25965.0	0.0	25965.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	450.0	1.7
10°-20°	1353.5	5.2
20°-30°	2394.6	9.2
30°-40°	3855.4	14.8
40°-50°	5299.2	20.4
50°-60°	7061.7	27.2
60°-70°	4401.2	17.0
70°-80°	1012.1	3.9
80°-90°	137.3	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°	25965.0	100.0
0°-180°	25965.0	100.0

**Coefficient of Utilization**



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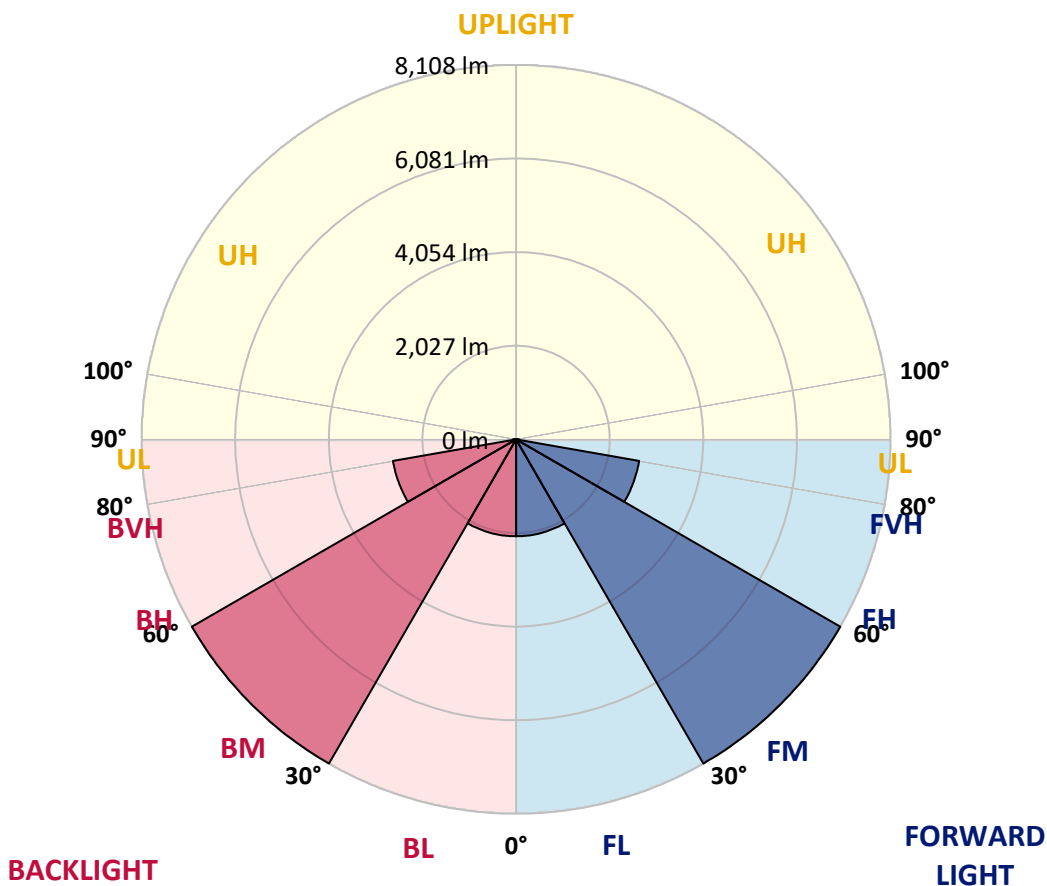
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2099.1	8.1			
FM (30°-60°)	8108.1	31.2			
FH (60°-80°)	2706.6	10.4			G2/5000
FVH (80°-90°)	68.7	0.3			G1/100
BL (0°-30°)	2099.1	8.1	B3/2500		
BM (30°-60°)	8108.1	31.2	B4/8500		
BH (60°-80°)	2706.6	10.4	B4/5000		G2/5000
BVH (80°-90°)	68.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4745.1	4745.1	4745.1	4745.1	4745.1	4745.1	4745.1	4745.1	4745.1	4745.1	4745.1
2.5°	4712.0	4716.4	4725.2	4731.8	4740.7	4749.5	4753.9	4745.1	4740.7	4723.0	4742.9
5°	4716.4	4720.8	4727.4	4727.4	4729.6	4736.3	4736.3	4725.2	4714.2	4694.4	4716.4
7.5°	4709.8	4714.2	4716.4	4714.2	4716.4	4718.6	4714.2	4701.0	4690.0	4672.3	4690.0
10°	4698.8	4703.2	4707.6	4703.2	4698.8	4705.4	4705.4	4696.6	4690.0	4672.3	4692.2
12.5°	4723.0	4729.6	4731.8	4720.8	4716.4	4718.6	4718.6	4709.8	4709.8	4694.4	4716.4
15°	4780.3	4784.7	4778.1	4764.9	4767.1	4773.7	4758.3	4736.3	4731.8	4725.2	4742.9
17.5°	4824.4	4828.8	4822.2	4813.4	4828.8	4844.2	4815.6	4773.7	4760.5	4756.1	4775.9
20°	4872.9	4879.5	4870.7	4881.7	4912.6	4930.2	4894.9	4837.6	4811.2	4804.6	4828.8
22.5°	4952.2	4961.1	4961.1	4985.3	5031.6	5060.2	5016.2	4939.0	4899.3	4888.3	4912.6
25°	5077.9	5084.5	5091.1	5139.6	5214.5	5254.2	5183.6	5077.9	5022.8	5005.1	5018.4
27.5°	5252.0	5263.0	5274.0	5344.5	5437.1	5494.4	5393.0	5260.8	5192.5	5157.2	5183.6
30°	5459.1	5474.6	5501.0	5580.4	5710.4	5774.3	5644.3	5483.4	5406.2	5368.8	5404.0
32.5°	5741.2	5743.4	5763.3	5851.4	6023.3	6096.1	5933.0	5754.5	5675.1	5631.0	5650.9
35°	6076.2	6078.4	6047.6	6138.0	6323.1	6404.6	6212.9	6032.2	5966.0	5952.8	6003.5
37.5°	6420.1	6400.2	6369.4	6409.0	6596.4	6649.3	6446.5	6292.2	6263.6	6287.8	6362.8
40°	6664.7	6631.6	6569.9	6598.6	6788.1	6849.8	6633.8	6488.4	6479.6	6539.1	6629.4
42.5°	6823.4	6788.1	6715.4	6715.4	6845.4	6871.9	6704.4	6627.2	6647.1	6715.4	6801.3
45°	6900.5	6880.7	6838.8	6816.8	6889.5	6900.5	6772.7	6741.8	6779.3	6812.4	6878.5
47.5°	6960.0	6960.0	6946.8	6924.8	6957.8	6964.4	6869.7	6860.8	6909.3	6909.3	6953.4
50°	7065.8	7076.8	7094.5	7090.1	7125.3	7147.4	7076.8	7063.6	7083.4	7019.5	7041.6
52.5°	7343.5	7372.2	7422.8	7462.5	7552.9	7621.2	7495.6	7389.8	7286.2	7145.1	7149.6
55°	7841.6	7854.8	7954.0	8070.8	8222.9	8361.7	8103.9	7775.5	7550.7	7385.4	7387.6
57.5°	8262.5	8282.4	8427.8	8672.5	9014.1	9230.1	8659.3	8110.5	7793.1	7590.3	7597.0
60°	7898.9	7872.4	8147.9	8566.7	9186.0	9461.5	8619.6	7870.2	7414.0	7162.8	7180.4
62.5°	6111.5	6060.8	6367.2	6805.7	7548.5	7824.0	7048.2	6329.7	5897.7	5701.6	5672.9
65°	3720.2	3674.0	3894.3	4163.2	4665.7	4839.8	4485.0	4103.7	3726.8	3607.8	3574.8
67.5°	2025.4	2018.8	2078.3	2210.5	2430.9	2512.5	2444.2	2263.4	2166.5	2082.7	2082.7
70°	1606.7	1593.4	1582.4	1584.6	1604.5	1615.5	1617.7	1608.9	1619.9	1622.1	1613.3
72.5°	1331.2	1326.8	1304.7	1306.9	1298.1	1293.7	1309.1	1318.0	1335.6	1337.8	1337.8
75°	965.3	954.3	965.3	967.5	958.7	958.7	969.7	967.5	976.3	980.7	956.5
77.5°	548.8	548.8	564.2	581.8	595.1	595.1	606.1	606.1	617.1	614.9	610.5
80°	301.9	301.9	310.8	321.8	335.0	348.2	359.2	361.4	368.1	365.9	359.2
82.5°	171.9	174.1	178.5	185.1	198.4	209.4	220.4	222.6	229.2	229.2	222.6
85°	81.5	79.3	81.5	86.0	92.6	101.4	112.4	119.0	123.4	123.4	119.0
87.5°	15.4	17.6	15.4	17.6	19.8	26.4	30.9	35.3	41.9	44.1	39.7
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)