

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: P640934

Luminaire Tested: GWS-SA5E-830-U-5WQ-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640934  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5E-830-U-5WQ-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

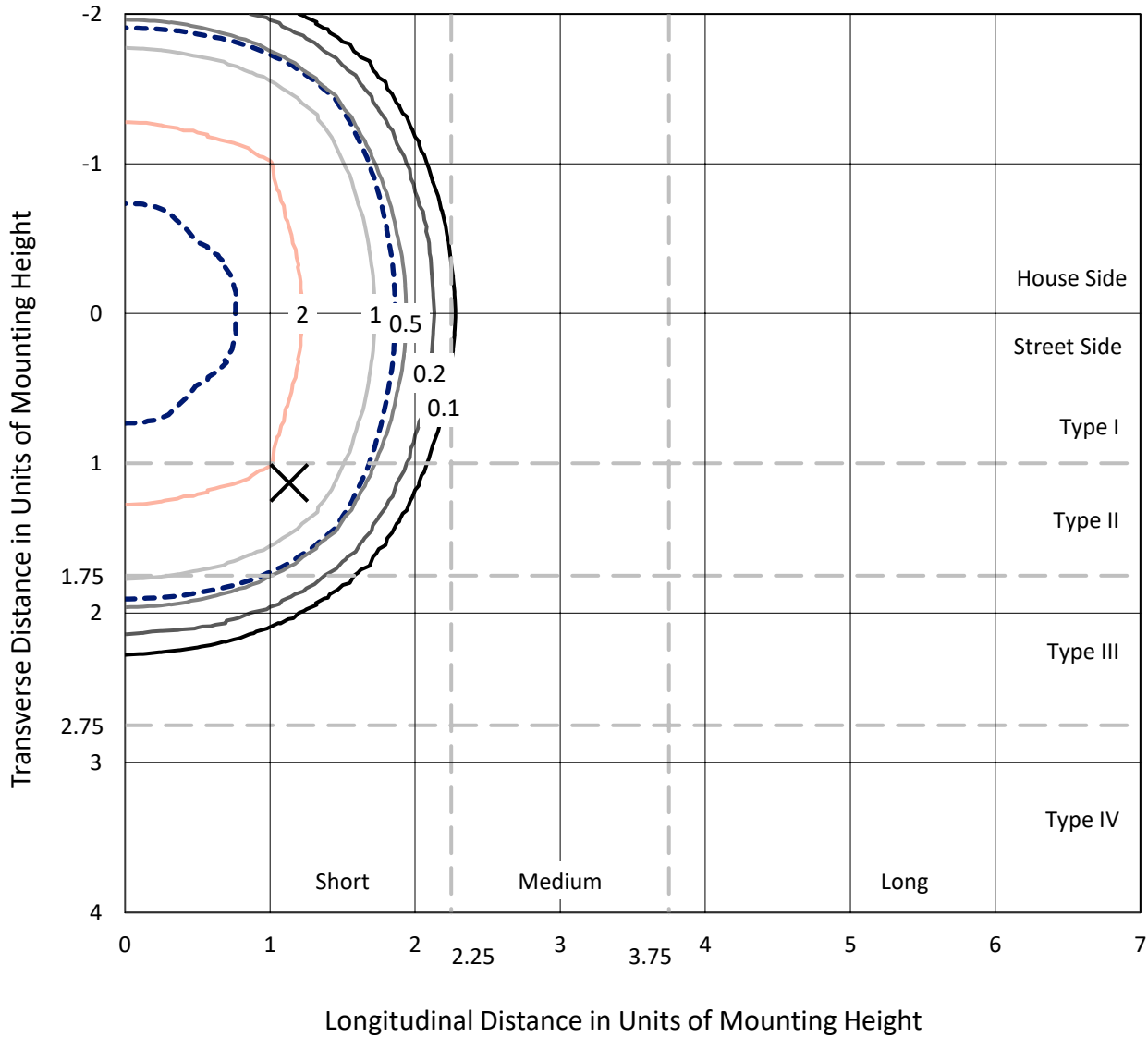
Lumens per Lamp: N/A  
Luminaire Lumens: 15693.9 lumens  
Efficiency: N/A  
Efficacy: 58.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

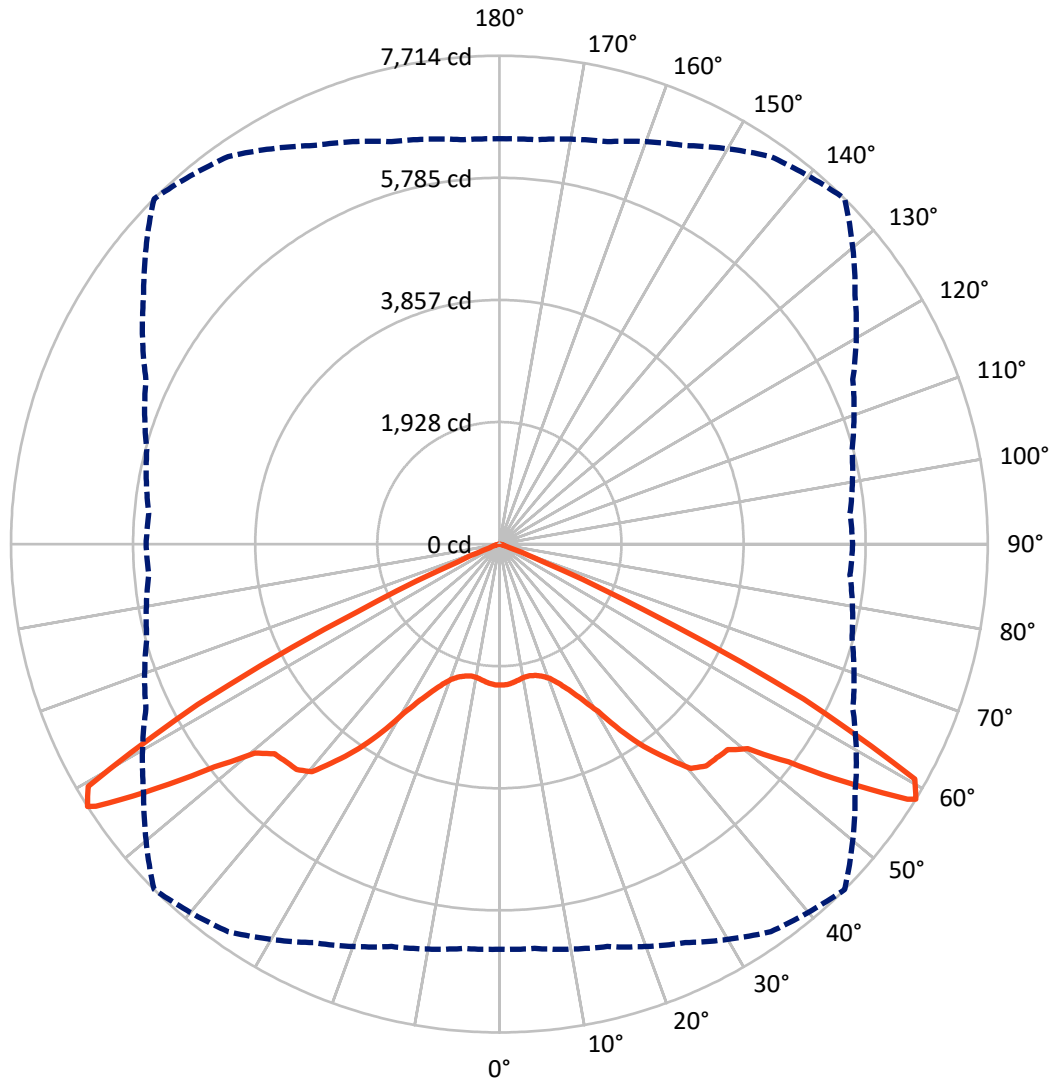
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 58-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7846.9	0.0	7846.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7846.9	0.0	7846.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15693.9	0.0	15693.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.7	1.3
10°-20°	614.4	3.9
20°-30°	1162.0	7.4
30°-40°	2291.8	14.6
40°-50°	3626.8	23.1
50°-60°	5331.2	34.0
60°-70°	2379.6	15.2
70°-80°	79.7	0.5
80°-90°	0.6	0.0
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°	15693.9	100.0
0°-180°	15693.9	100.0

**Coefficient of Utilization**



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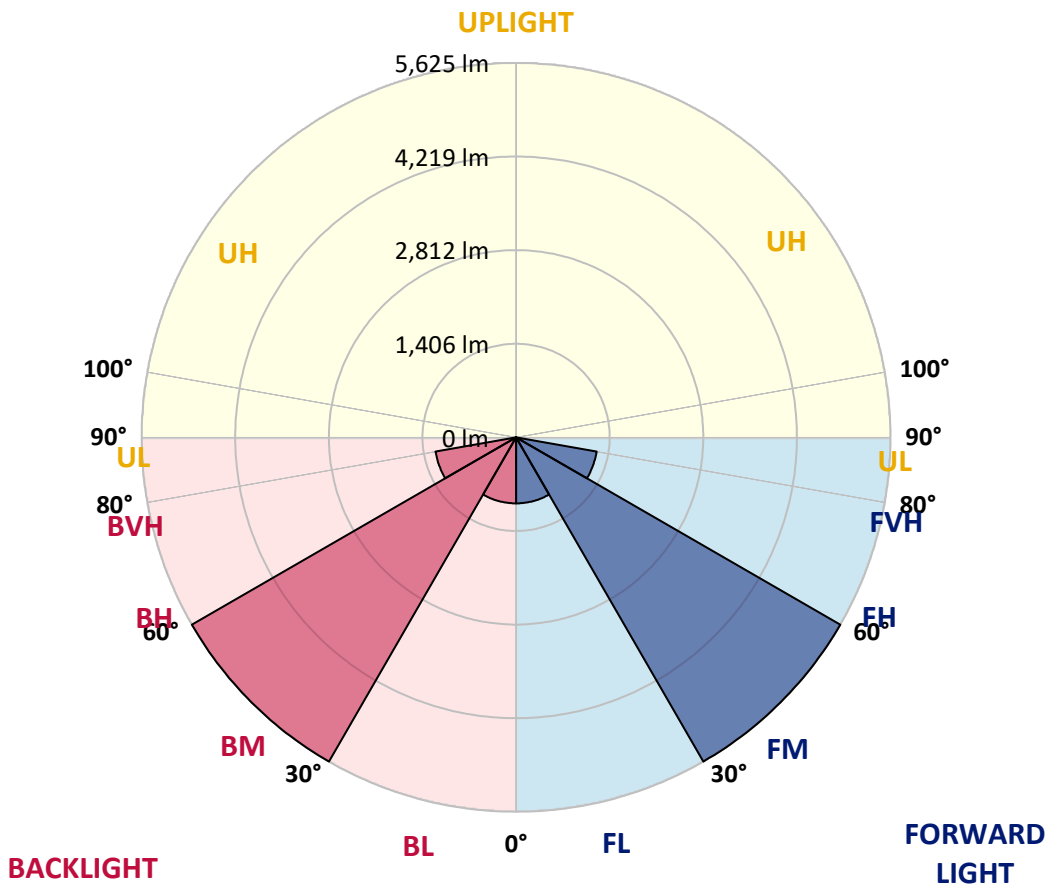
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	992.1	6.3			
FM (30°-60°)	5624.9	35.8			
FH (60°-80°)	1229.7	7.8			G1/1800
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	992.1	6.3	B2/1000		
BM (30°-60°)	5624.9	35.8	B4/8500		
BH (60°-80°)	1229.7	7.8	B3/2500		G1/1800
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2225.6	2225.6	2225.6	2225.6	2225.6	2225.6	2225.6	2225.6	2225.6	2225.6	2225.6
2.5°	2204.2	2208.5	2212.8	2214.9	2217.1	2223.5	2225.6	2219.2	2219.2	2206.4	2221.3
5°	2193.5	2197.8	2202.1	2199.9	2199.9	2199.9	2197.8	2189.3	2187.1	2174.3	2189.3
7.5°	2174.3	2178.6	2178.6	2172.2	2167.9	2167.9	2165.7	2155.1	2152.9	2140.1	2155.1
10°	2159.3	2161.5	2159.3	2146.5	2137.9	2137.9	2135.8	2131.5	2133.7	2125.1	2137.9
12.5°	2167.9	2170.0	2161.5	2144.4	2133.7	2131.5	2125.1	2118.7	2125.1	2123.0	2135.8
15°	2195.7	2197.8	2182.8	2161.5	2152.9	2152.9	2135.8	2118.7	2127.3	2129.4	2144.4
17.5°	2229.9	2229.9	2210.6	2191.4	2193.5	2193.5	2165.7	2135.8	2137.9	2146.5	2161.5
20°	2270.5	2270.5	2251.3	2247.0	2261.9	2264.1	2229.9	2182.8	2172.2	2178.6	2195.7
22.5°	2343.2	2343.2	2328.2	2338.9	2373.1	2383.8	2332.5	2266.2	2240.6	2244.8	2261.9
25°	2456.5	2456.5	2452.2	2477.9	2527.1	2550.6	2482.2	2394.5	2351.7	2345.3	2364.6
27.5°	2646.8	2648.9	2642.5	2681.0	2743.0	2770.8	2676.7	2561.3	2510.0	2499.3	2518.5
30°	2892.6	2892.6	2894.8	2948.2	3029.5	3065.8	2941.8	2807.1	2747.3	2713.1	2738.7
32.5°	3166.3	3170.6	3192.0	3281.8	3425.0	3499.8	3318.1	3130.0	3033.7	2997.4	3025.2
35°	3617.4	3576.8	3551.1	3617.4	3824.8	3923.1	3690.1	3469.9	3397.2	3392.9	3463.5
37.5°	4064.2	4040.7	3987.3	4055.7	4241.7	4286.6	4030.0	3846.2	3794.9	3822.7	3893.2
40°	4419.1	4376.4	4305.8	4370.0	4613.7	4658.6	4342.2	4160.4	4141.2	4203.2	4299.4
42.5°	4699.2	4639.3	4545.3	4560.2	4756.9	4789.0	4508.9	4372.1	4384.9	4461.9	4570.9
45°	4825.3	4778.3	4694.9	4688.5	4812.5	4814.7	4594.5	4523.9	4558.1	4618.0	4703.5
47.5°	4878.8	4857.4	4810.4	4799.7	4870.2	4853.1	4716.3	4686.4	4718.5	4735.6	4784.7
50°	5011.4	5011.4	5017.8	5026.3	5099.0	5081.9	4985.7	4951.5	4910.9	4851.0	4866.0
52.5°	5383.4	5398.3	5460.3	5528.7	5661.3	5716.9	5560.8	5362.0	5167.4	5037.0	5037.0
55°	6054.7	6069.6	6142.3	6257.8	6501.5	6634.1	6270.6	5832.3	5565.1	5387.6	5411.1
57.5°	6424.5	6441.6	6591.3	6903.4	7375.9	7600.4	6820.1	6170.1	5796.0	5592.9	5610.0
58°	6401.0	6411.7	6580.6	6946.2	7472.1	7713.7	6858.5	6159.4	5766.0	5558.7	5580.0
60°	5686.9	5672.0	5941.4	6463.0	7204.9	7538.4	6475.8	5622.8	5165.3	4953.6	4964.3
62.5°	3717.9	3726.4	3959.5	4504.7	5081.9	5396.2	4523.9	3888.9	3521.2	3392.9	3360.9
65°	1552.2	1524.4	1667.6	1971.2	2317.5	2492.8	2142.2	1813.0	1586.4	1500.8	1524.4
67.5°	399.8	389.1	397.7	498.1	609.3	720.5	605.0	461.8	401.9	406.2	406.2
70°	226.6	213.8	173.2	160.3	156.1	156.1	156.1	156.1	179.6	211.7	218.1
72.5°	171.0	160.3	126.1	109.0	96.2	89.8	94.1	109.0	130.4	158.2	162.5
75°	85.5	85.5	77.0	72.7	64.1	59.9	62.0	68.4	79.1	89.8	87.7
77.5°	17.1	19.2	21.4	25.7	21.4	21.4	21.4	25.7	25.7	27.8	25.7
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
82.5°	0.0	2.1	2.1	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)