

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: P639941

Luminaire Tested: GWS-SA5C-830-U-5NQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639941
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-830-U-5NQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW 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: 13311.1 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

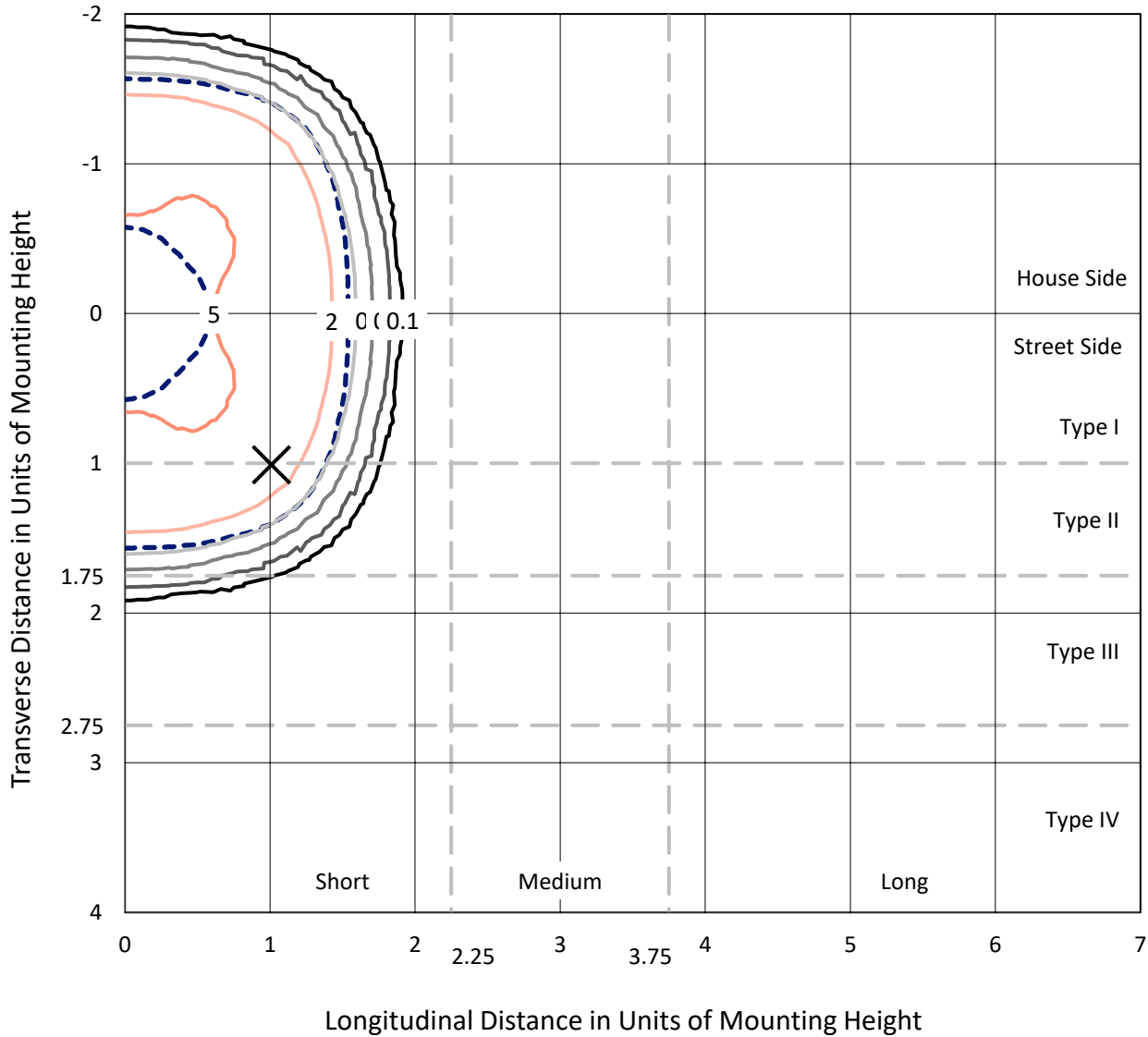
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

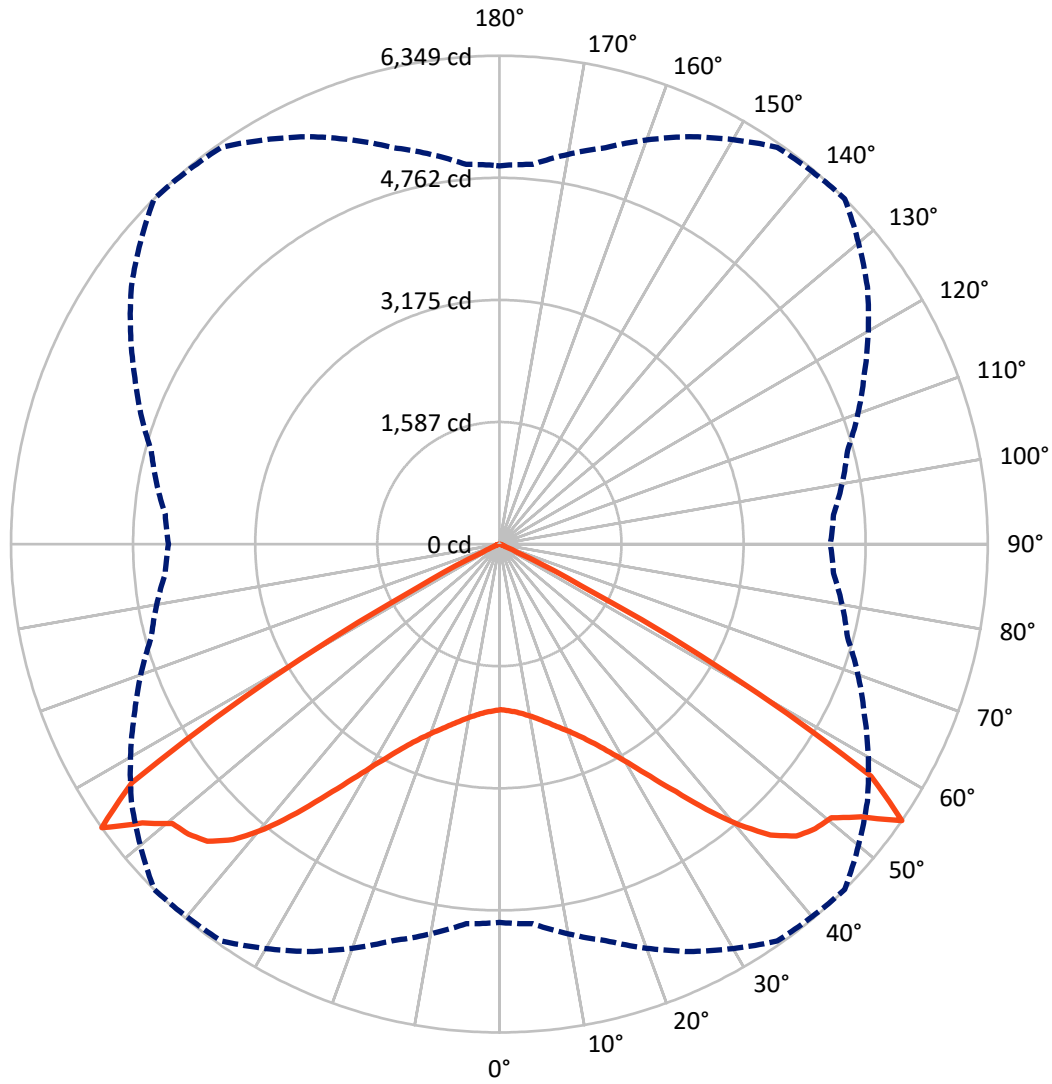
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6655.6	0.0	6655.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6655.6	0.0	6655.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	13311.1	0.0	13311.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.9	1.6
10°-20°	683.5	5.1
20°-30°	1323.7	9.9
30°-40°	2371.5	17.8
40°-50°	3976.0	29.9
50°-60°	4256.2	32.0
60°-70°	467.7	3.5
70°-80°	20.6	0.2
80°-90°	1.0	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°	13311.1	100.0
0°-180°	13311.1	100.0

Coefficient of Utilization



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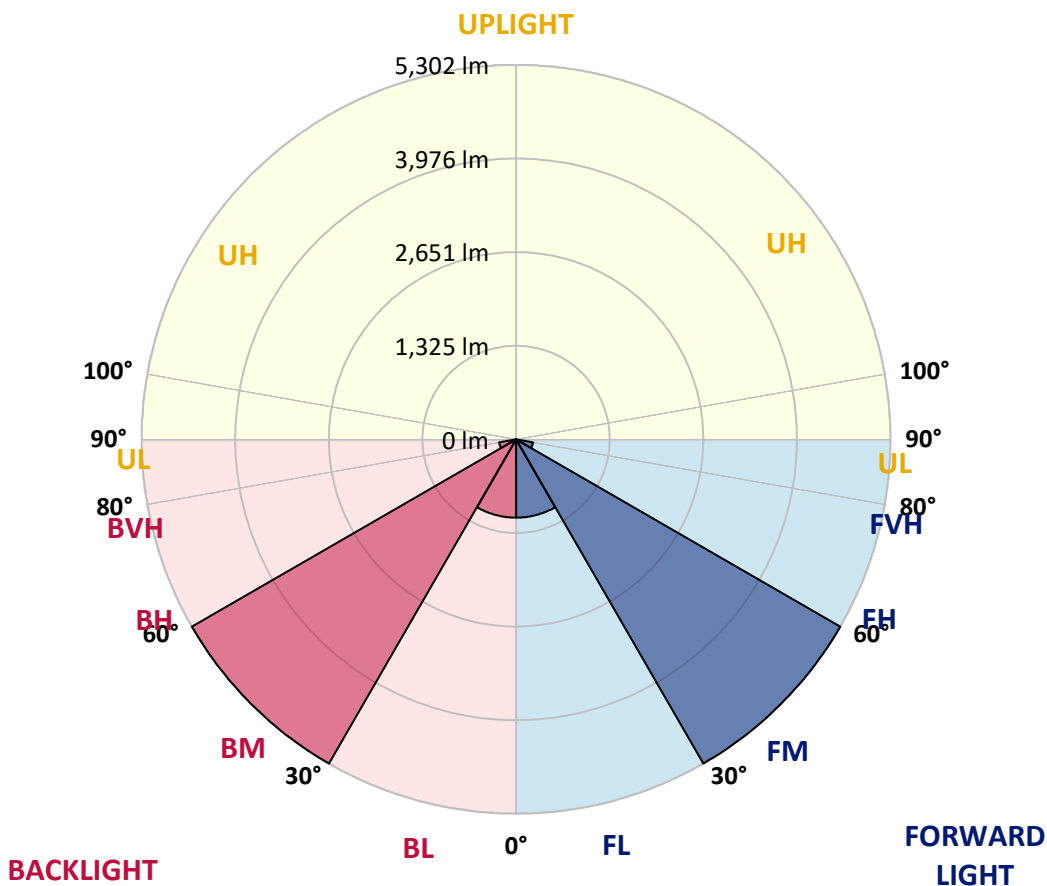
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1109.1	8.3			
FM (30°-60°)	5301.9	39.8			
FH (60°-80°)	244.1	1.8			G0/660
FVH (80°-90°)	0.5	0.0			G0/10
BL (0°-30°)	1109.1	8.3	B3/2500		
BM (30°-60°)	5301.9	39.8	B4/8500		
BH (60°-80°)	244.1	1.8	B1/500		G0/660
BVH (80°-90°)	0.5	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-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2152.1	2152.1	2152.1	2152.1	2152.1	2152.1	2152.1	2152.1	2152.1	2152.1	2152.1
2.5°	2148.1	2148.1	2153.5	2157.6	2157.6	2168.4	2164.4	2160.3	2160.3	2154.9	2165.7
5°	2179.3	2177.9	2183.3	2186.1	2180.6	2191.5	2184.7	2180.6	2177.9	2172.5	2183.3
7.5°	2213.2	2214.5	2215.9	2221.3	2218.6	2229.4	2224.0	2215.9	2213.2	2205.0	2215.9
10°	2253.9	2253.9	2256.6	2263.3	2264.7	2278.3	2272.8	2263.3	2255.2	2247.1	2257.9
12.5°	2305.4	2306.7	2310.8	2320.3	2325.7	2340.6	2332.5	2313.5	2301.3	2291.8	2304.0
15°	2380.0	2378.6	2384.0	2397.6	2404.4	2415.2	2403.0	2377.3	2362.3	2351.5	2359.6
17.5°	2461.3	2461.3	2464.1	2477.6	2487.1	2503.4	2488.5	2457.3	2443.7	2428.8	2436.9
20°	2550.8	2554.9	2557.6	2567.1	2583.4	2599.7	2587.5	2556.3	2541.4	2522.4	2531.9
22.5°	2668.8	2664.8	2666.1	2682.4	2705.4	2721.7	2712.2	2675.6	2649.8	2634.9	2640.3
25°	2800.4	2799.0	2803.1	2827.5	2853.3	2870.9	2857.3	2809.9	2784.1	2758.3	2769.2
27.5°	2961.7	2963.1	2965.8	2995.6	3036.3	3062.1	3028.2	2980.7	2945.5	2911.6	2919.7
30°	3153.0	3150.2	3158.4	3199.1	3258.7	3299.4	3260.1	3193.6	3143.5	3110.9	3115.0
32.5°	3356.4	3359.1	3380.8	3445.9	3524.5	3596.4	3516.4	3428.2	3363.2	3302.1	3310.3
35°	3576.1	3582.8	3631.7	3727.9	3856.8	3953.1	3841.9	3696.8	3604.5	3525.9	3528.6
37.5°	3835.1	3851.4	3919.2	4062.9	4247.3	4376.2	4213.4	4020.9	3901.5	3803.9	3797.1
40°	4175.5	4194.5	4286.7	4457.5	4681.3	4799.3	4610.8	4412.8	4265.0	4159.2	4142.9
42.5°	4566.0	4590.4	4690.8	4865.7	5089.5	5169.5	4985.1	4818.3	4685.4	4560.6	4555.2
45°	5006.8	5020.3	5101.7	5235.9	5397.3	5416.3	5278.0	5185.8	5051.5	4934.9	4925.4
47.5°	5420.4	5433.9	5489.5	5558.7	5596.7	5528.9	5504.5	5463.8	5290.2	5146.4	5116.6
50°	5735.0	5745.8	5815.0	5842.1	5736.3	5592.6	5640.1	5553.3	5364.8	5203.4	5157.3
52.5°	5713.3	5740.4	5918.1	6072.7	6006.2	5889.6	5762.1	5575.0	5282.1	5061.0	5004.0
55°	4918.6	4955.2	5336.3	5844.8	6299.1	6349.3	5839.4	5235.9	4685.4	4361.3	4302.9
57.5°	3161.1	3170.6	3635.7	4349.0	5372.9	5695.7	4842.7	3947.6	3262.8	2906.1	2881.7
60°	1162.2	1143.2	1494.4	2085.7	3094.6	3436.4	2850.5	1996.2	1423.9	1171.7	1151.3
62.5°	279.4	282.1	349.9	524.8	971.0	1201.5	949.3	530.2	337.7	283.4	280.7
65°	141.0	138.3	139.7	150.5	207.5	248.2	203.4	143.7	138.3	139.7	138.3
67.5°	90.9	89.5	92.2	93.6	92.2	86.8	85.4	88.1	88.1	89.5	86.8
70°	55.6	54.2	57.0	61.0	58.3	51.5	54.2	57.0	54.2	52.9	52.9
72.5°	29.8	29.8	32.5	35.3	32.5	29.8	29.8	31.2	29.8	29.8	29.8
75°	13.6	13.6	14.9	16.3	13.6	13.6	13.6	13.6	13.6	13.6	13.6
77.5°	4.1	4.1	5.4	5.4	4.1	4.1	4.1	4.1	5.4	5.4	5.4
80°	1.4	2.7	2.7	1.4	1.4	1.4	1.4	1.4	2.7	2.7	2.7
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
85°	1.4	1.4	1.4	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
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)