

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: P637961

Luminaire Tested: GWS-SA4D-830-U-5NQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637961
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-SA4D-830-U-5NQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13689.2 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

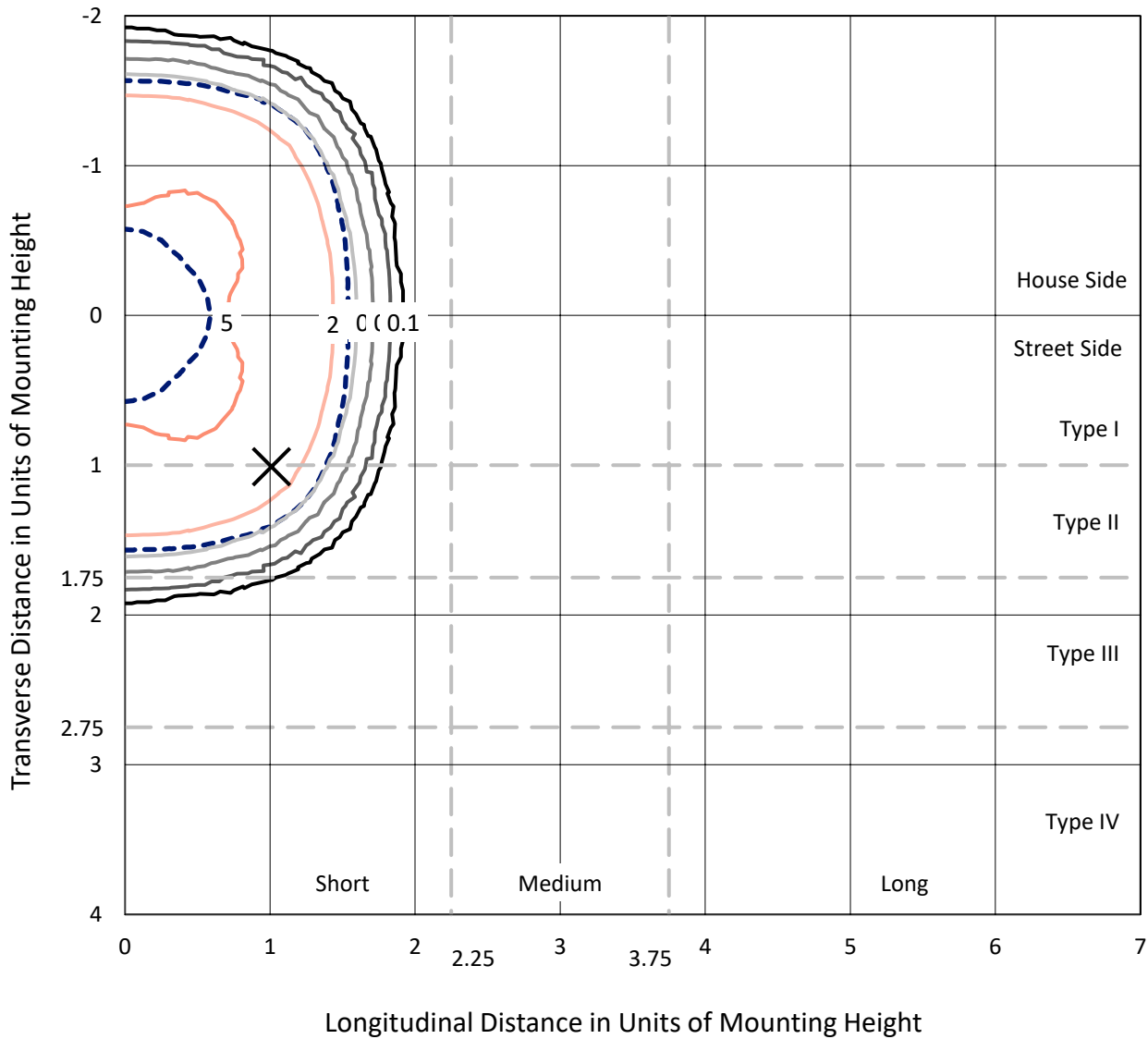
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

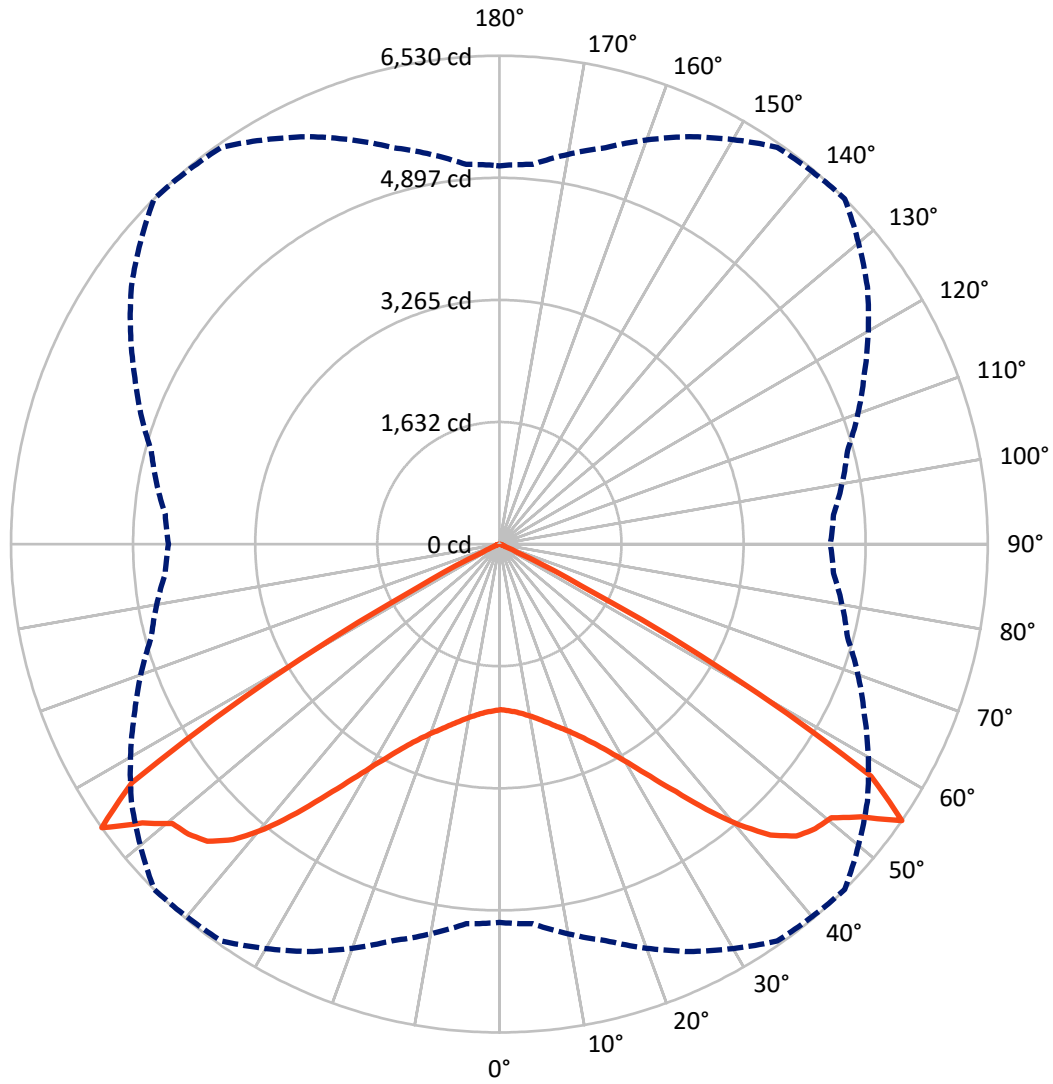
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.6 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	6844.6	0.0	6844.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6844.6	0.0	6844.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	13689.2	0.0	13689.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.9	1.6
10°-20°	702.9	5.1
20°-30°	1361.3	9.9
30°-40°	2438.9	17.8
40°-50°	4089.0	29.9
50°-60°	4377.1	32.0
60°-70°	481.0	3.5
70°-80°	21.2	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°	13689.2	100.0
0°-180°	13689.2	100.0

Coefficient of Utilization



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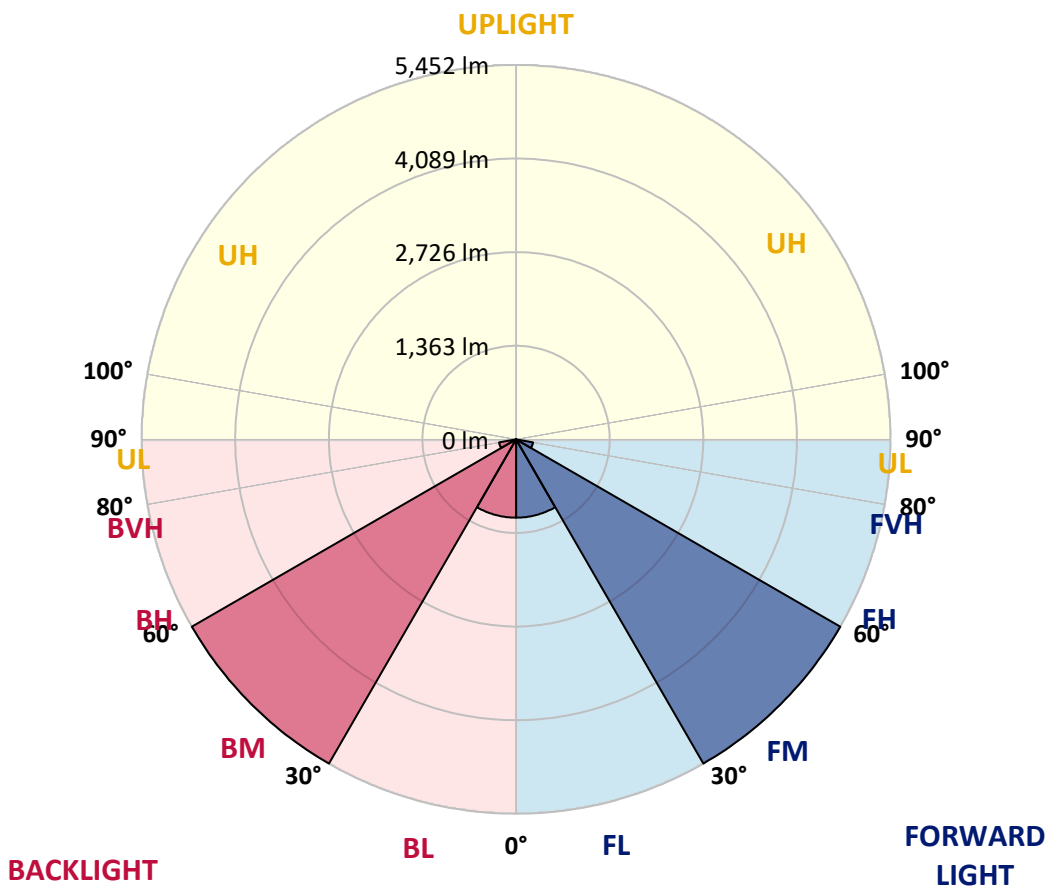
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1140.6	8.3			
FM (30°-60°)	5452.5	39.8			
FH (60°-80°)	251.1	1.8			G0/660
FVH (80°-90°)	0.5	0.0			G0/10
BL (0°-30°)	1140.6	8.3	B3/2500		
BM (30°-60°)	5452.5	39.8	B4/8500		
BH (60°-80°)	251.1	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°	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3	2213.3
2.5°	2209.1	2209.1	2214.7	2218.9	2218.9	2230.0	2225.8	2221.6	2221.6	2216.1	2227.2
5°	2241.2	2239.8	2245.4	2248.1	2242.6	2253.7	2246.8	2242.6	2239.8	2234.2	2245.4
7.5°	2276.0	2277.4	2278.8	2284.4	2281.6	2292.8	2287.2	2278.8	2276.0	2267.7	2278.8
10°	2317.9	2317.9	2320.7	2327.6	2329.0	2343.0	2337.4	2327.6	2319.3	2310.9	2322.1
12.5°	2370.9	2372.3	2376.5	2386.2	2391.8	2407.1	2398.8	2379.2	2366.7	2356.9	2369.5
15°	2447.6	2446.2	2451.8	2465.7	2472.7	2483.8	2471.3	2444.8	2429.4	2418.3	2426.7
17.5°	2531.3	2531.3	2534.0	2548.0	2557.8	2574.5	2559.1	2527.1	2513.1	2497.8	2506.2
20°	2623.3	2627.5	2630.3	2640.0	2656.8	2673.5	2661.0	2628.9	2613.5	2594.0	2603.8
22.5°	2744.6	2740.5	2741.8	2758.6	2782.3	2799.0	2789.3	2751.6	2725.1	2709.8	2715.3
25°	2879.9	2878.5	2882.7	2907.8	2934.3	2952.4	2938.5	2889.7	2863.2	2836.7	2847.8
27.5°	3045.9	3047.3	3050.1	3080.7	3122.6	3149.1	3114.2	3065.4	3029.1	2994.3	3002.6
30°	3242.5	3239.7	3248.1	3289.9	3351.3	3393.1	3352.7	3284.4	3232.8	3199.3	3203.5
32.5°	3451.7	3454.5	3476.8	3543.8	3624.6	3698.6	3616.3	3525.6	3458.7	3395.9	3404.3
35°	3677.6	3684.6	3734.8	3833.8	3966.3	4065.4	3951.0	3801.8	3706.9	3626.0	3628.8
37.5°	3944.0	3960.8	4030.5	4178.3	4368.0	4500.5	4333.1	4135.1	4012.4	3911.9	3905.0
40°	4294.1	4313.6	4408.4	4584.2	4814.3	4935.6	4741.7	4538.1	4386.1	4277.3	4260.6
42.5°	4695.7	4720.8	4824.0	5003.9	5234.1	5316.3	5126.7	4955.1	4818.5	4690.1	4684.6
45°	5149.0	5162.9	5246.6	5384.7	5550.6	5570.2	5427.9	5333.1	5195.0	5075.1	5065.3
47.5°	5574.3	5588.3	5645.5	5716.6	5755.6	5685.9	5660.8	5619.0	5440.5	5292.6	5261.9
50°	5897.9	5909.1	5980.2	6008.1	5899.3	5751.5	5800.3	5711.0	5517.2	5351.2	5303.8
52.5°	5875.6	5903.5	6086.2	6245.2	6176.8	6056.9	5925.8	5733.3	5432.1	5204.8	5146.2
55°	5058.3	5096.0	5487.9	6010.9	6478.1	6529.7	6005.3	5384.7	4818.5	4485.1	4425.2
57.5°	3250.9	3260.6	3739.0	4472.6	5525.5	5857.5	4980.2	4059.8	3355.5	2988.7	2963.6
60°	1195.2	1175.7	1536.9	2144.9	3182.5	3534.0	2931.5	2052.9	1464.4	1205.0	1184.0
62.5°	287.3	290.1	359.8	539.7	998.6	1235.6	976.2	545.3	347.3	291.5	288.7
65°	145.0	142.3	143.6	154.8	213.4	255.2	209.2	147.8	142.3	143.6	142.3
67.5°	93.4	92.0	94.8	96.2	94.8	89.3	87.9	90.7	90.7	92.0	89.3
70°	57.2	55.8	58.6	62.8	60.0	53.0	55.8	58.6	55.8	54.4	54.4
72.5°	30.7	30.7	33.5	36.3	33.5	30.7	30.7	32.1	30.7	30.7	30.7
75°	13.9	13.9	15.3	16.7	13.9	13.9	13.9	13.9	13.9	13.9	13.9
77.5°	4.2	4.2	5.6	5.6	4.2	4.2	4.2	4.2	5.6	5.6	5.6
80°	1.4	2.8	2.8	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8
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)