

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: P637960

Luminaire Tested: GWS-SA4D-830-U-5MQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637960
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-830-U-5MQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20146.2 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

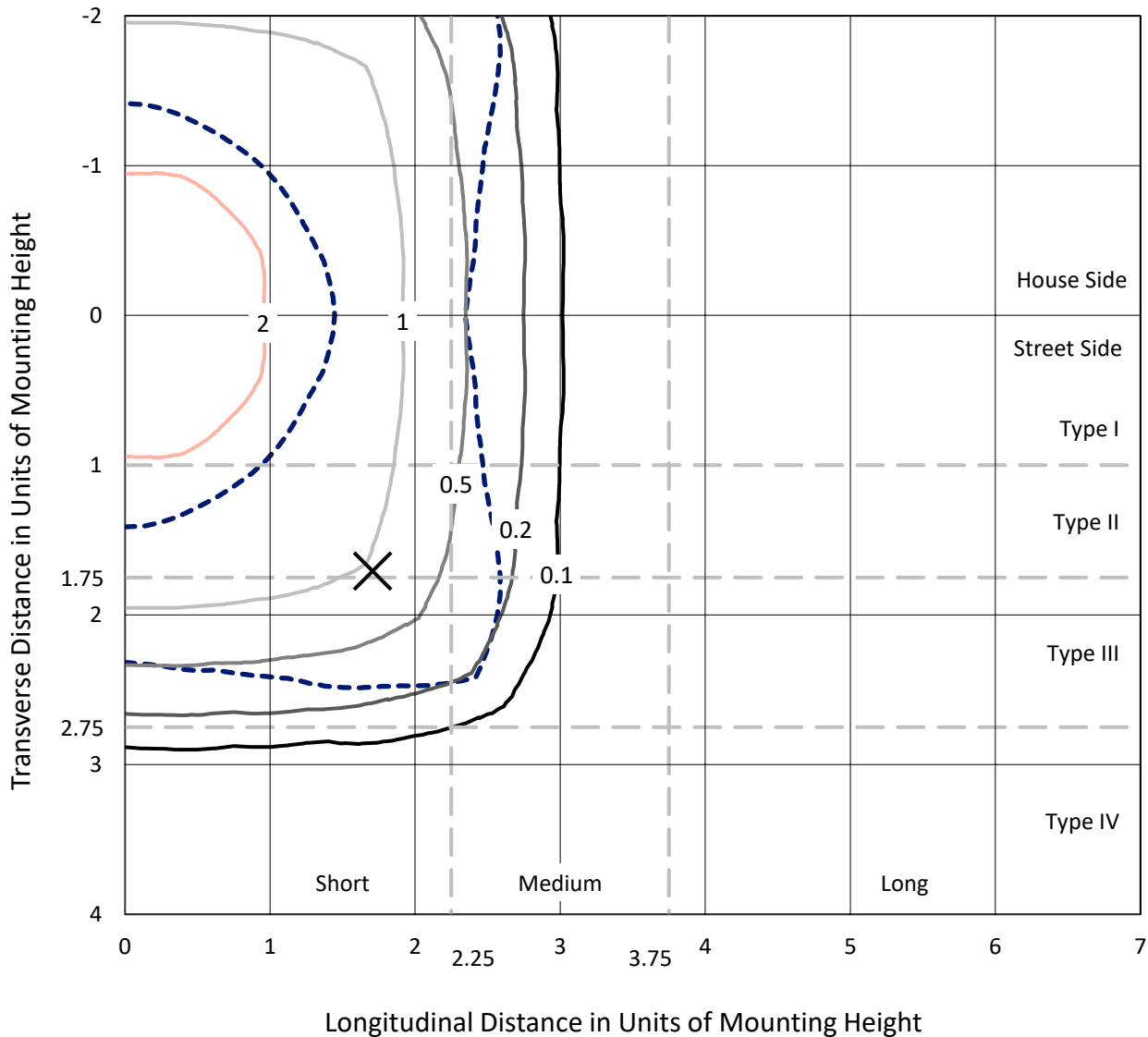
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

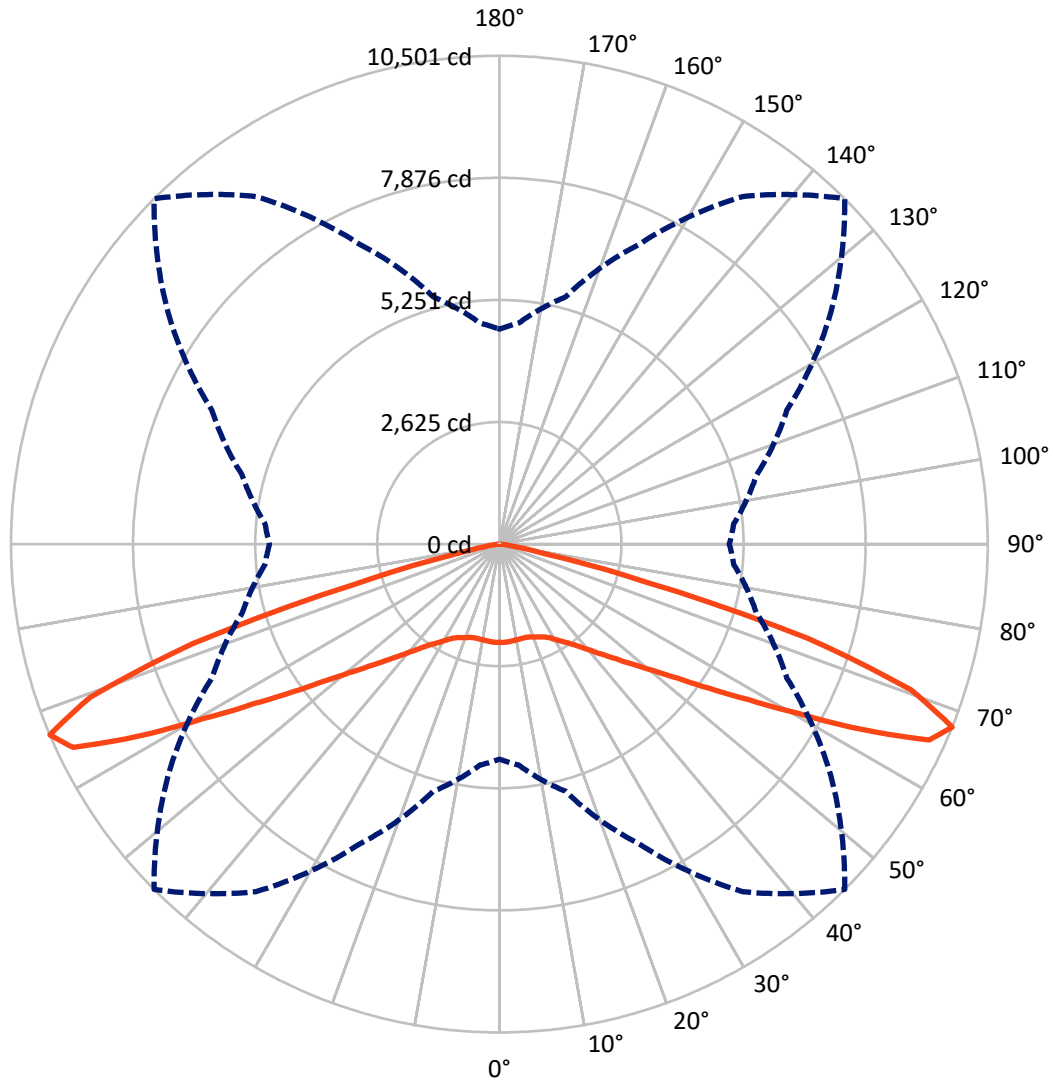
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10073.1	0.0	10073.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10073.1	0.0	10073.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	20146.2	0.0	20146.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.7	1.0
10°-20°	586.5	2.9
20°-30°	1011.6	5.0
30°-40°	1644.9	8.2
40°-50°	2769.7	13.7
50°-60°	4907.4	24.4
60°-70°	7014.8	34.8
70°-80°	1925.3	9.6
80°-90°	86.3	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°	20146.2	100.0
0°-180°	20146.2	100.0

Coefficient of Utilization



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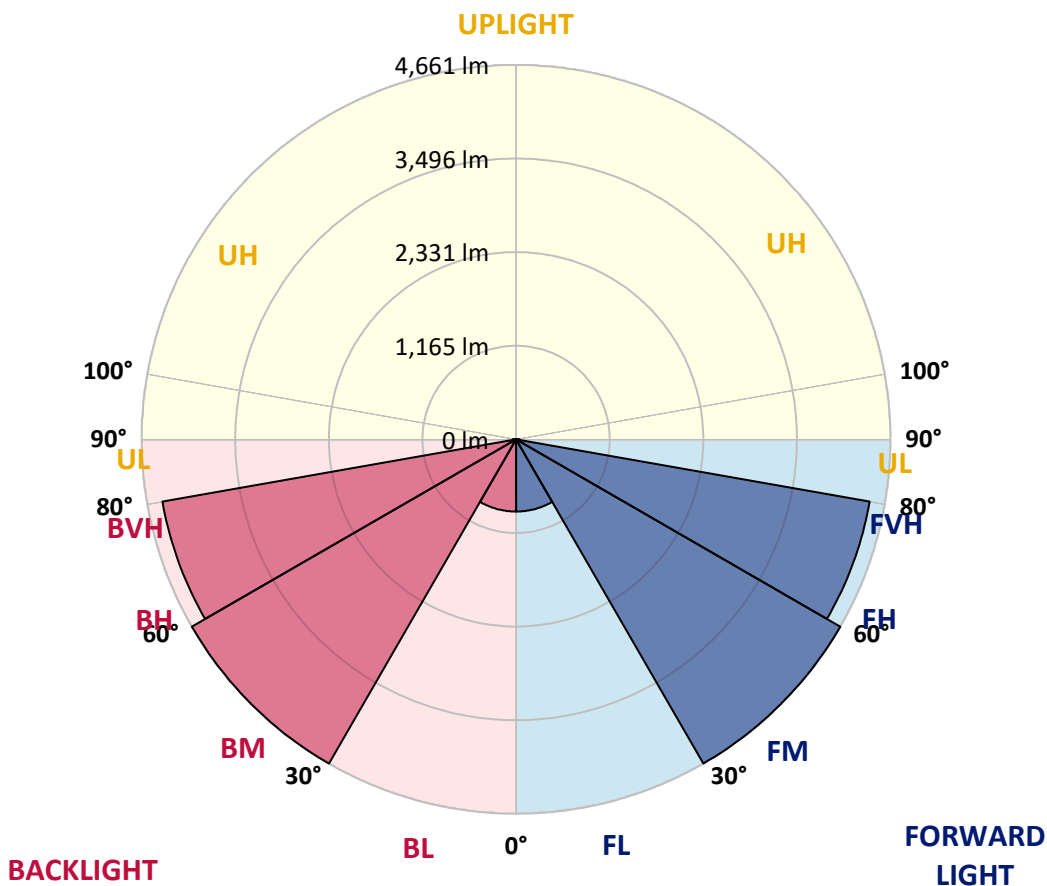
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	898.9	4.5			
FM (30°-60°)	4661.0	23.1			
FH (60°-80°)	4470.0	22.2			G2/5000
FVH (80°-90°)	43.1	0.2			G1/100
BL (0°-30°)	898.9	4.5	B2/1000		
BM (30°-60°)	4661.0	23.1	B3/5000		
BH (60°-80°)	4470.0	22.2	B4/5000		G2/5000
BVH (80°-90°)	43.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2110.0	2110.0	2110.0	2110.0	2110.0	2110.0	2110.0	2110.0	2110.0	2110.0	2110.0
2.5°	2096.0	2094.6	2101.6	2105.8	2104.4	2114.1	2112.7	2110.0	2110.0	2105.8	2116.9
5°	2096.0	2094.6	2100.2	2101.6	2098.8	2107.2	2104.4	2101.6	2101.6	2096.0	2105.8
7.5°	2084.9	2086.3	2090.4	2093.2	2090.4	2097.4	2093.2	2087.6	2086.3	2080.7	2090.4
10°	2063.9	2065.3	2069.5	2076.5	2077.9	2090.4	2083.5	2073.7	2069.5	2063.9	2073.7
12.5°	2051.4	2052.8	2057.0	2065.3	2068.1	2084.9	2077.9	2062.5	2055.6	2050.0	2059.8
15°	2048.6	2050.0	2055.6	2063.9	2068.1	2084.9	2077.9	2059.8	2050.0	2043.0	2051.4
17.5°	2048.6	2051.4	2059.8	2072.3	2080.7	2097.4	2089.0	2068.1	2054.2	2041.6	2050.0
20°	2050.0	2054.2	2066.7	2084.9	2105.8	2129.5	2118.3	2090.4	2070.9	2055.6	2061.2
22.5°	2062.5	2069.5	2084.9	2108.6	2139.2	2167.1	2157.4	2119.7	2091.8	2070.9	2076.5
25°	2105.8	2108.6	2128.1	2158.8	2188.1	2211.8	2202.0	2167.1	2132.3	2107.2	2114.1
27.5°	2182.5	2189.4	2206.2	2238.3	2263.4	2275.9	2274.5	2250.8	2215.9	2193.6	2199.2
30°	2274.5	2281.5	2303.8	2340.1	2365.2	2379.1	2374.9	2356.8	2324.7	2294.0	2299.6
32.5°	2381.9	2384.7	2411.2	2451.6	2478.1	2499.0	2485.1	2465.6	2425.1	2388.9	2391.7
35°	2518.6	2522.7	2550.6	2588.3	2609.2	2625.9	2623.2	2603.6	2560.4	2521.4	2531.1
37.5°	2690.1	2692.9	2718.0	2765.4	2782.1	2794.7	2797.5	2787.7	2743.1	2692.9	2702.6
40°	2903.5	2904.9	2932.7	2974.6	2992.7	3001.1	3002.5	3003.9	2957.8	2920.2	2917.4
42.5°	3151.7	3158.7	3197.7	3238.2	3246.5	3242.3	3256.3	3270.2	3225.6	3174.0	3178.2
45°	3448.7	3452.9	3505.9	3550.5	3535.2	3521.2	3547.7	3575.6	3535.2	3468.3	3448.7
47.5°	3800.2	3808.5	3865.7	3910.3	3885.2	3860.1	3903.4	3932.6	3867.1	3796.0	3777.8
50°	4197.6	4203.2	4284.1	4339.9	4310.6	4264.5	4318.9	4349.6	4261.8	4173.9	4134.9
52.5°	4667.6	4656.4	4763.8	4861.4	4843.3	4783.3	4827.9	4833.5	4702.4	4578.3	4539.3
55°	5240.7	5229.6	5337.0	5444.3	5489.0	5473.6	5452.7	5419.2	5225.4	5092.9	5056.7
57.5°	5908.7	5873.9	6024.5	6169.5	6267.1	6295.0	6205.8	6127.7	5974.3	5811.1	5769.3
60°	6529.3	6527.9	6766.4	7017.4	7285.1	7396.7	7170.8	6958.8	6614.4	6317.3	6257.4
62.5°	6703.6	6732.9	7123.4	7745.4	8406.4	8801.0	8205.6	7504.1	6838.9	6391.2	6311.7
65°	6274.1	6346.6	6901.6	7883.4	9188.7	10153.7	8809.4	7516.6	6589.3	6031.4	5947.8
67.5°	4624.3	4769.4	5504.3	7113.6	9121.8	10501.0	8702.0	6820.8	5723.2	5059.4	4943.7
70°	2281.5	2419.6	3002.5	4680.1	7505.5	9386.7	7529.2	5140.3	3865.7	3227.0	3121.0
72.5°	839.5	895.3	1124.0	2002.6	4141.8	6933.7	5148.7	2871.4	1872.9	1490.8	1419.7
75°	411.4	421.2	456.0	672.2	1528.4	3263.3	2419.6	1101.7	688.9	599.7	580.1
77.5°	262.2	266.4	283.1	320.7	490.9	1027.8	733.5	435.1	337.5	323.5	323.5
80°	146.4	150.6	172.9	199.4	230.1	352.8	263.6	260.8	221.7	193.8	189.7
82.5°	69.7	76.7	110.2	108.8	121.3	177.1	154.8	140.8	142.2	107.4	101.8
85°	32.1	32.1	43.2	51.6	54.4	60.0	71.1	80.9	79.5	54.4	58.6
87.5°	15.3	15.3	15.3	13.9	12.6	11.2	15.3	25.1	36.3	25.1	23.7
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)