

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: P638956

Luminaire Tested: GWS-SA4F-830-U-5WQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638956
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-830-U-5WQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27401.7 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

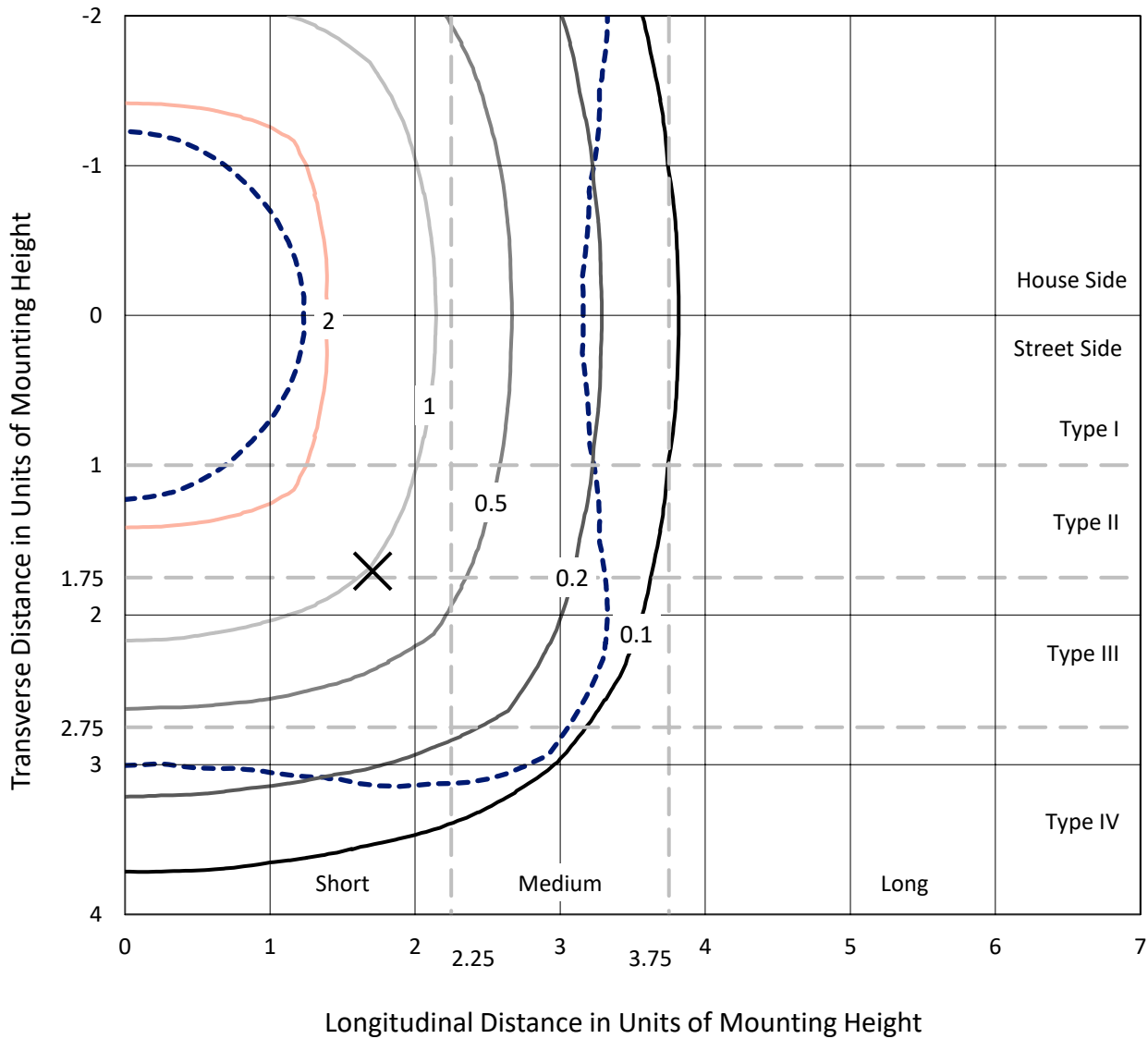
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

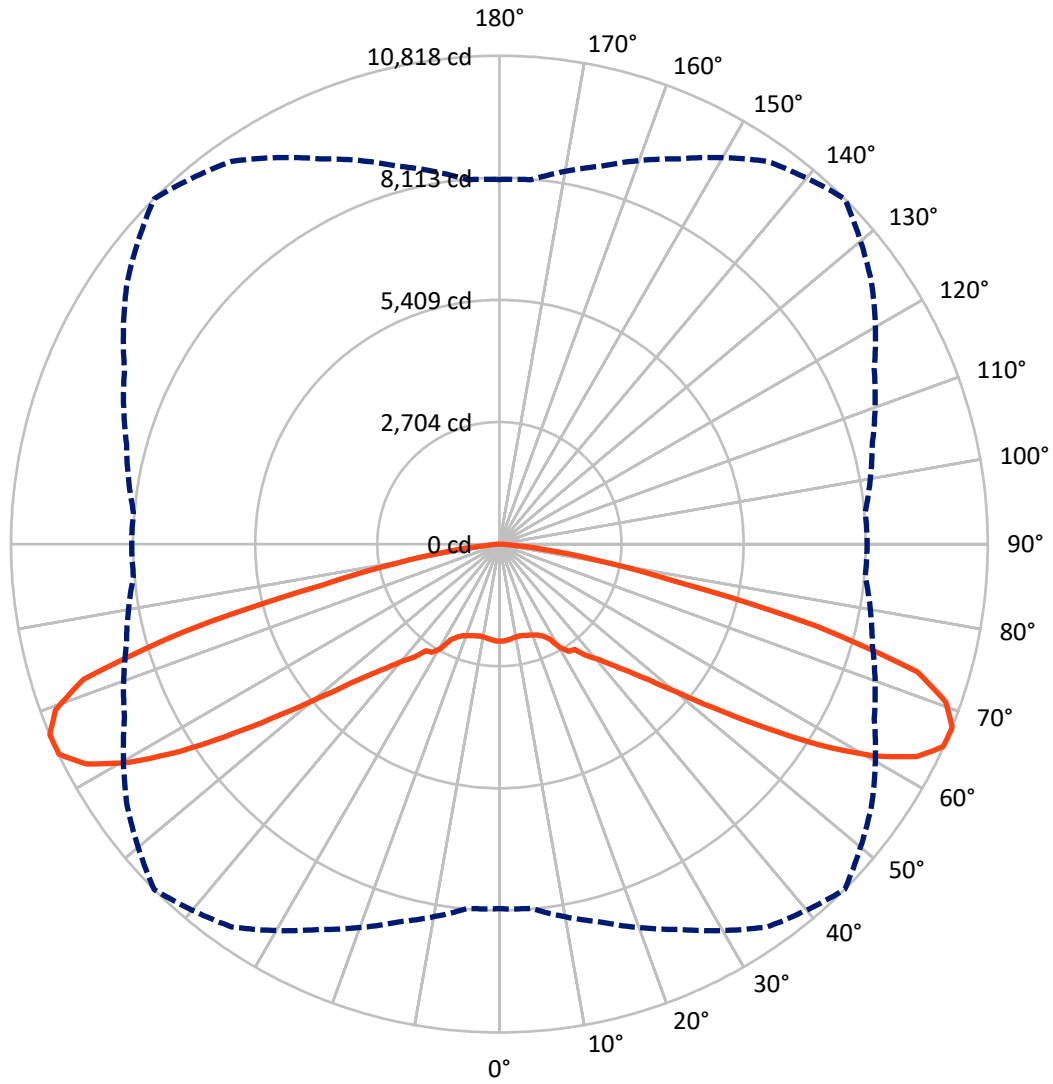
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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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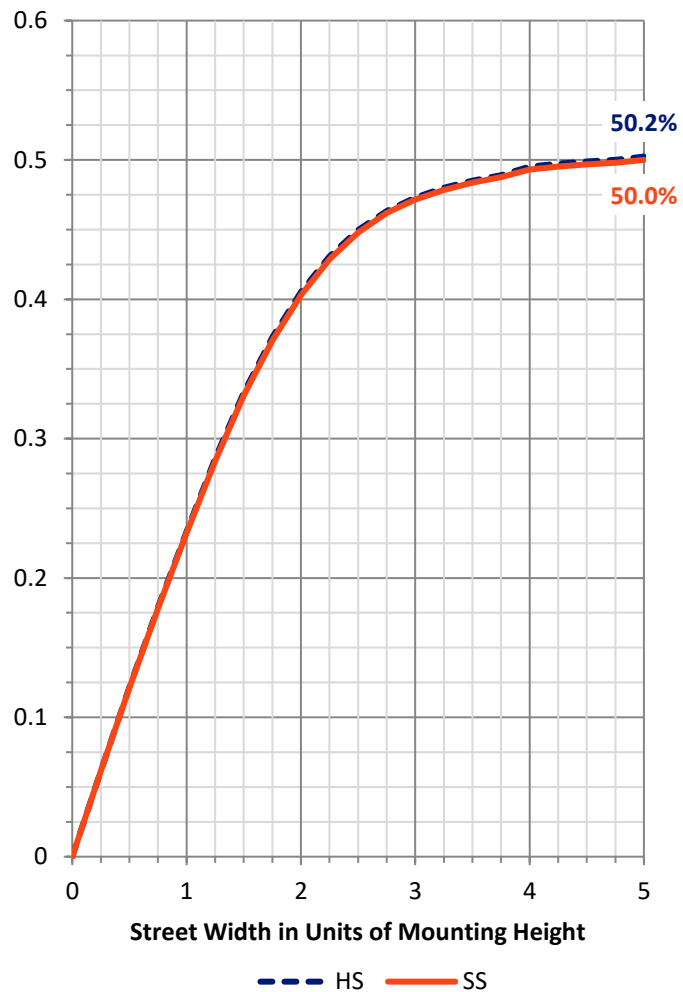
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13700.8	0.0	13700.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13700.8	0.0	13700.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	27401.7	0.0	27401.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.8	0.7
10°-20°	598.7	2.2
20°-30°	1074.1	3.9
30°-40°	1814.4	6.6
40°-50°	3187.9	11.6
50°-60°	6149.5	22.4
60°-70°	8922.1	32.6
70°-80°	5104.8	18.6
80°-90°	348.4	1.3
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°	27401.7	100.0
0°-180°	27401.7	100.0

Coefficient of Utilization



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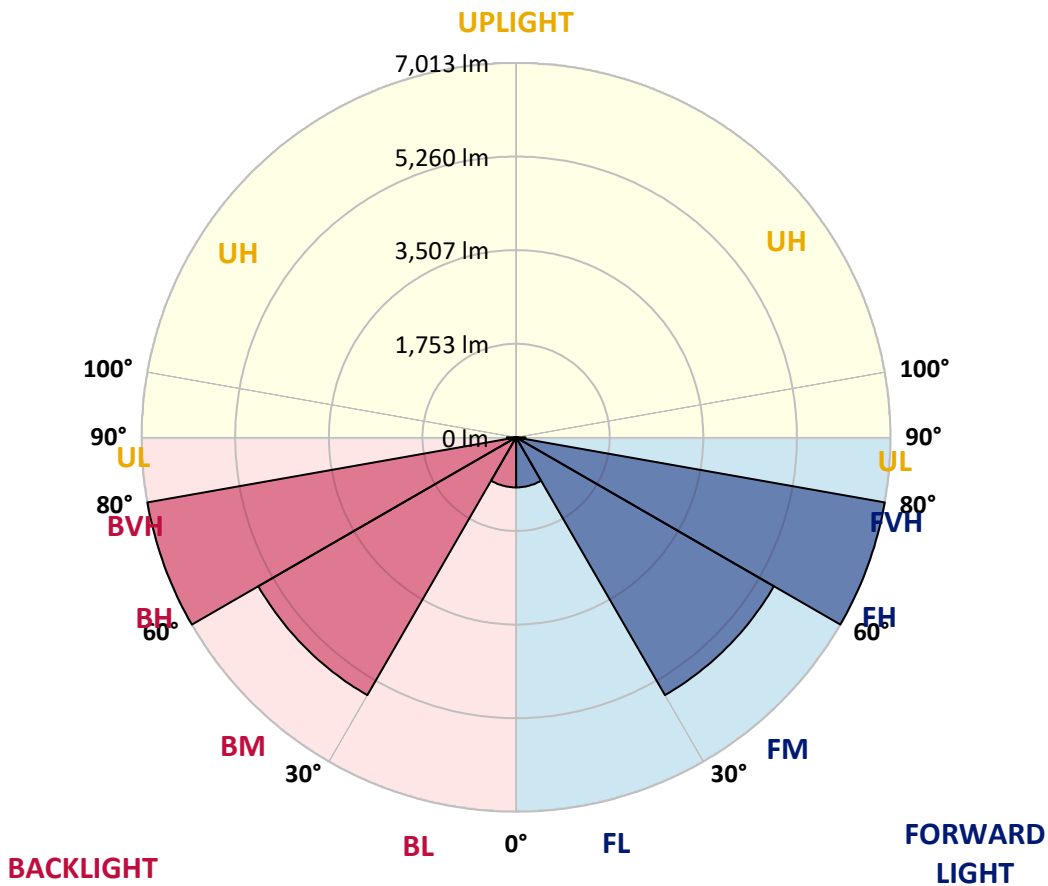
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	937.3	3.4			
FM (30°-60°)	5575.9	20.3			
FH (60°-80°)	7013.5	25.6			G3/7500
FVH (80°-90°)	174.2	0.6			G2/225
BL (0°-30°)	937.3	3.4	B2/1000		
BM (30°-60°)	5575.9	20.3	B4/8500		
BH (60°-80°)	7013.5	25.6	B5		G3/7500
BVH (80°-90°)	174.2	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2148.9	2148.9	2148.9	2148.9	2148.9	2148.9	2148.9	2148.9	2148.9	2148.9	2148.9
2.5°	2131.4	2133.4	2137.2	2137.2	2141.1	2146.9	2148.9	2145.0	2146.9	2137.2	2146.9
5°	2125.6	2127.5	2129.5	2125.6	2125.6	2127.5	2127.5	2123.7	2125.6	2115.9	2125.6
7.5°	2112.0	2114.0	2114.0	2108.2	2102.3	2106.2	2106.2	2102.3	2104.3	2094.6	2106.2
10°	2100.4	2100.4	2098.5	2086.8	2081.0	2086.8	2088.8	2090.7	2098.5	2090.7	2104.3
12.5°	2108.2	2108.2	2102.3	2086.8	2077.2	2081.0	2084.9	2088.8	2102.3	2100.4	2115.9
15°	2129.5	2131.4	2115.9	2098.5	2092.7	2098.5	2094.6	2092.7	2110.1	2115.9	2133.4
17.5°	2146.9	2146.9	2127.5	2110.1	2112.0	2121.7	2114.0	2104.3	2121.7	2133.4	2152.7
20°	2162.4	2160.5	2139.2	2127.5	2135.3	2148.9	2143.0	2129.5	2141.1	2154.7	2172.1
22.5°	2201.2	2199.2	2176.0	2170.2	2177.9	2191.5	2185.7	2174.0	2187.6	2207.0	2228.3
25°	2311.6	2307.7	2272.9	2253.5	2249.6	2259.3	2257.4	2253.5	2274.8	2298.1	2323.2
27.5°	2458.9	2456.9	2431.7	2412.4	2387.2	2379.4	2385.2	2402.7	2433.7	2451.1	2472.4
30°	2532.5	2532.5	2528.6	2559.6	2613.9	2666.2	2625.5	2559.6	2532.5	2524.8	2546.1
32.5°	2629.4	2639.1	2625.5	2660.4	2751.5	2829.0	2751.5	2644.9	2625.5	2625.5	2648.8
35°	2852.2	2856.1	2834.8	2829.0	2858.0	2867.7	2830.9	2792.2	2813.5	2817.3	2846.4
37.5°	3030.5	3030.5	3020.8	3036.3	3096.4	3133.2	3073.1	3003.4	3009.2	3013.0	3049.9
40°	3305.6	3313.4	3290.1	3288.2	3311.4	3344.4	3280.4	3235.9	3266.9	3276.6	3332.8
42.5°	3648.6	3648.6	3613.7	3604.0	3619.5	3654.4	3594.3	3565.3	3606.0	3613.7	3646.7
45°	4057.4	4067.1	4020.6	4003.2	4010.9	4022.6	3979.9	3966.4	4005.1	4022.6	4080.7
47.5°	4555.4	4565.1	4524.4	4522.5	4514.7	4522.5	4481.8	4474.0	4505.0	4491.5	4553.5
50°	5169.6	5187.1	5152.2	5200.6	5194.8	5218.1	5161.9	5121.2	5121.2	5084.4	5119.3
52.5°	5857.5	5892.4	5909.8	5991.2	6053.2	6111.3	6018.3	5954.4	5861.4	5785.8	5880.8
55°	6607.4	6597.7	6708.1	6886.4	7068.5	7206.1	7024.0	6822.5	6671.3	6514.4	6551.2
57.5°	7264.2	7297.2	7442.5	7768.0	8128.4	8419.1	8091.6	7704.1	7361.1	7136.4	7167.4
60°	7810.7	7837.8	8031.6	8500.5	9130.2	9531.3	9012.0	8372.6	7874.6	7564.6	7597.5
62.5°	8314.5	8339.6	8535.3	9052.7	9847.1	10370.3	9699.9	8826.0	8271.8	7959.9	7979.2
65°	8605.1	8620.6	8888.0	9432.5	10269.5	10810.1	10054.5	9153.5	8609.0	8291.2	8302.8
67.5°	8076.1	8101.3	8665.2	9417.0	10350.9	10817.9	10070.0	9163.1	8550.8	8136.2	8145.9
70°	6371.0	6349.7	7022.0	8314.5	9883.9	10492.4	9622.4	8475.3	7529.7	6950.3	6940.7
72.5°	4857.7	4863.5	5237.5	6123.0	8058.7	9682.4	8490.8	6824.4	5805.2	5365.3	5347.9
75°	3522.6	3576.9	3881.1	4530.2	5636.6	7237.1	6392.3	5057.3	4375.2	4111.7	4072.9
77.5°	1586.9	1656.7	2081.0	2844.5	3768.7	3999.3	4014.8	3433.5	2590.6	2152.7	2084.9
80°	463.1	496.0	637.5	1090.9	1755.5	2269.0	1802.0	1515.2	943.6	740.2	705.3
82.5°	195.7	222.8	273.2	302.3	509.6	1052.1	654.9	416.6	387.5	313.9	286.8
85°	83.3	89.1	114.3	122.1	164.7	224.8	207.3	188.0	180.2	139.5	127.9
87.5°	34.9	34.9	34.9	31.0	29.1	31.0	42.6	54.3	71.7	56.2	52.3
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)