

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: P636478

Luminaire Tested: GWS-SA3F-830-U-5NQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636478
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3F-830-U-5NQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20301.2 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

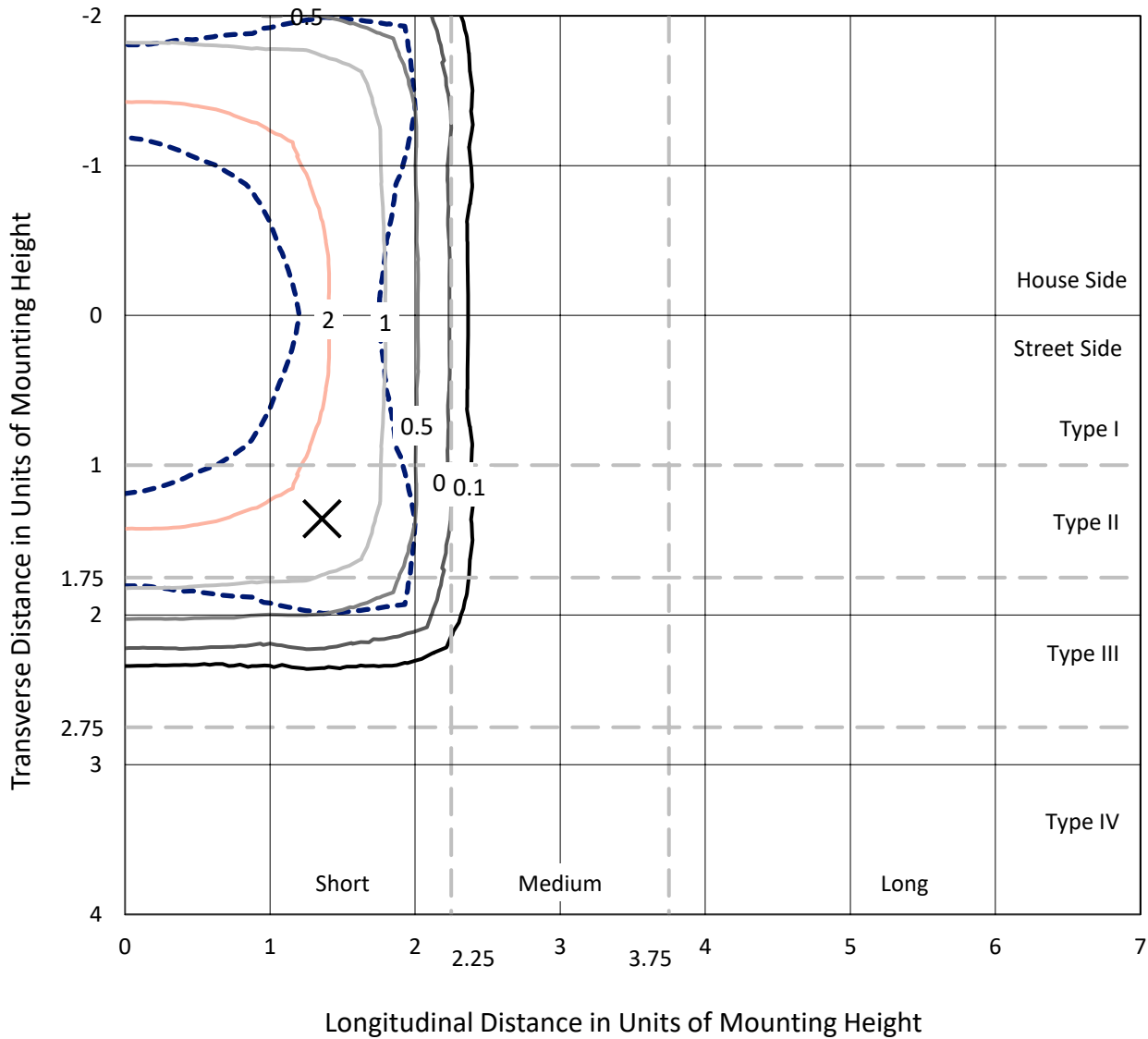
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

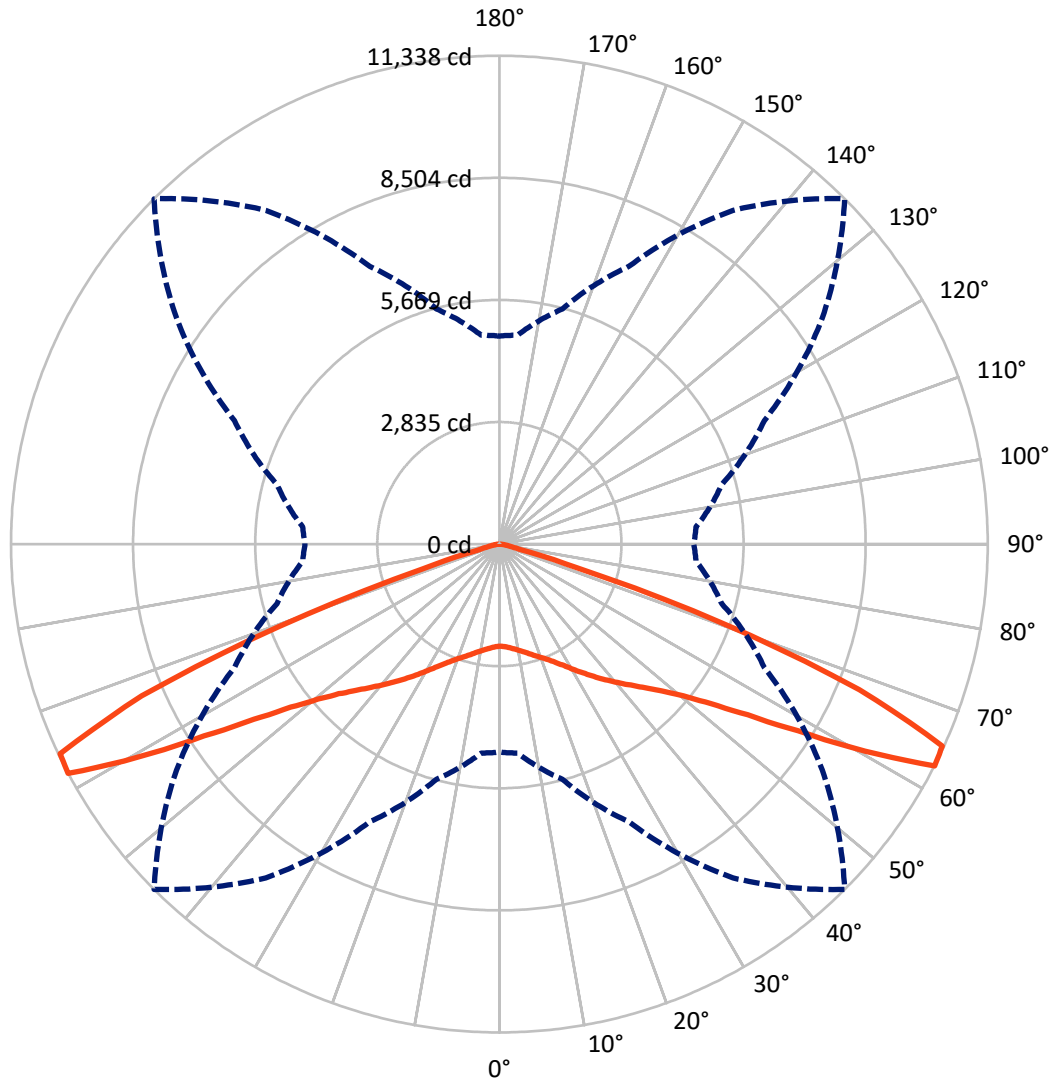
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10150.6	0.0	10150.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10150.6	0.0	10150.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	20301.2	0.0	20301.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.4	1.1
10°-20°	749.4	3.7
20°-30°	1417.7	7.0
30°-40°	2386.2	11.8
40°-50°	3812.5	18.8
50°-60°	6145.5	30.3
60°-70°	5014.0	24.7
70°-80°	486.9	2.4
80°-90°	56.7	0.3
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°	20301.2	100.0
0°-180°	20301.2	100.0

Coefficient of Utilization



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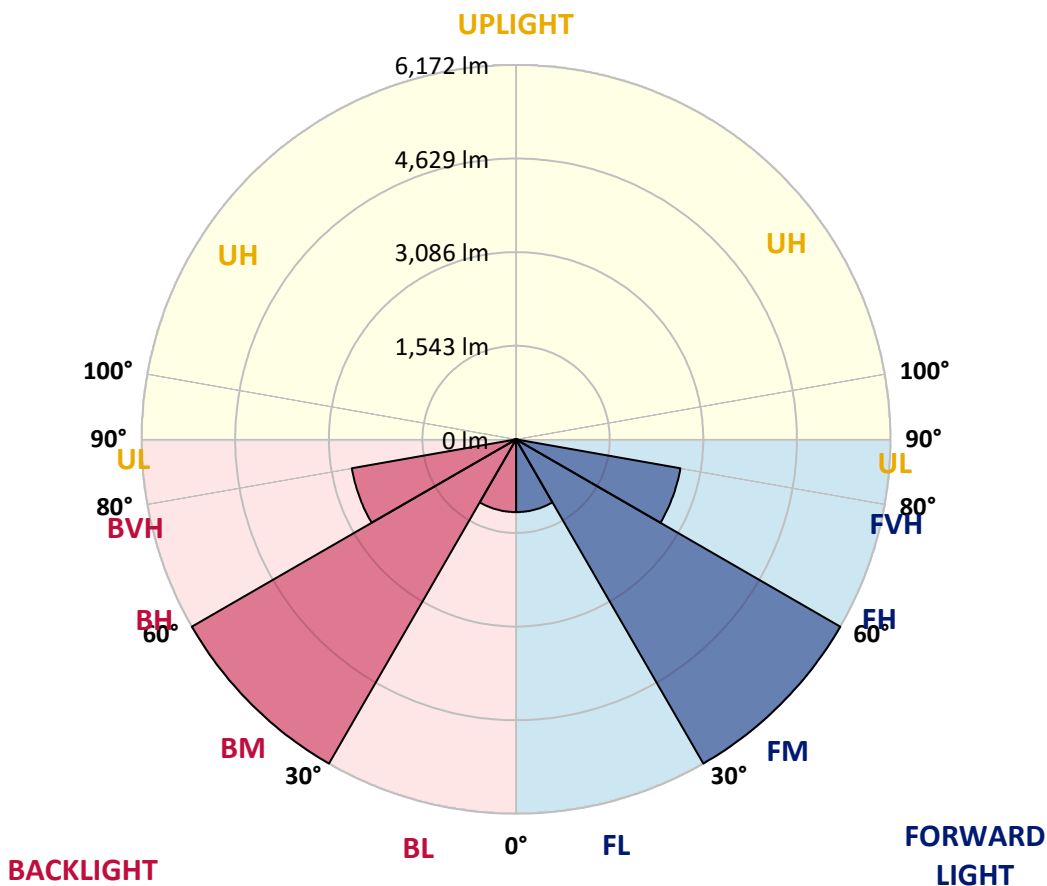
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1199.7	5.9			
FM (30°-60°)	6172.1	30.4			
FH (60°-80°)	2750.5	13.5			G2/5000
FVH (80°-90°)	28.3	0.1			G1/100
BL (0°-30°)	1199.7	5.9	B3/2500		
BM (30°-60°)	6172.1	30.4	B4/8500		
BH (60°-80°)	2750.5	13.5	B4/5000		G2/5000
BVH (80°-90°)	28.3	0.1			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°	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4
2.5°	2365.6	2365.6	2371.2	2375.4	2372.6	2383.7	2382.3	2379.5	2378.2	2374.0	2386.5
5°	2397.6	2397.6	2401.8	2406.0	2399.0	2413.0	2407.4	2404.6	2403.2	2397.6	2408.8
7.5°	2433.8	2438.0	2439.4	2446.4	2442.2	2457.5	2453.3	2447.8	2445.0	2438.0	2447.8
10°	2474.2	2477.0	2478.4	2490.9	2492.3	2510.4	2506.3	2499.3	2493.7	2486.8	2500.7
12.5°	2528.5	2529.9	2534.1	2549.4	2553.6	2567.5	2566.1	2556.4	2549.4	2539.7	2555.0
15°	2598.1	2599.5	2606.5	2621.8	2628.8	2645.5	2639.9	2624.6	2614.9	2603.7	2616.2
17.5°	2670.6	2676.1	2683.1	2698.4	2708.1	2727.6	2720.7	2704.0	2695.6	2684.5	2692.8
20°	2763.8	2765.2	2769.4	2786.1	2793.1	2815.4	2816.7	2800.0	2795.9	2784.7	2797.3
22.5°	2866.9	2868.3	2872.4	2890.5	2903.1	2917.0	2925.4	2915.6	2908.6	2894.7	2910.0
25°	2981.0	2995.0	2999.1	3021.4	3035.4	3043.7	3053.5	3049.3	3039.5	3022.8	3029.8
27.5°	3141.2	3144.0	3150.9	3176.0	3184.3	3192.7	3202.4	3203.8	3189.9	3170.4	3180.2
30°	3323.6	3322.2	3337.5	3357.0	3363.9	3370.9	3384.8	3393.2	3375.1	3354.2	3363.9
32.5°	3510.1	3526.9	3546.3	3564.4	3560.3	3563.1	3585.3	3600.6	3575.6	3538.0	3546.3
35°	3720.4	3731.5	3756.6	3783.0	3777.5	3773.3	3787.2	3802.5	3767.7	3719.0	3731.5
37.5°	3936.2	3952.9	3990.5	4022.5	4014.2	3994.7	4010.0	4026.7	3993.3	3937.6	3932.0
40°	4177.1	4203.5	4257.8	4284.3	4262.0	4224.4	4250.9	4291.3	4257.8	4193.8	4178.5
42.5°	4459.7	4491.8	4546.1	4586.4	4537.7	4476.4	4521.0	4579.5	4571.1	4486.2	4459.7
45°	4809.2	4830.1	4896.9	4916.4	4844.0	4759.1	4839.9	4929.0	4908.1	4816.2	4781.4
47.5°	5189.3	5221.4	5279.8	5316.0	5199.1	5093.3	5206.0	5325.8	5303.5	5217.2	5176.8
50°	5673.9	5715.6	5792.2	5822.9	5661.3	5540.2	5685.0	5836.8	5793.6	5678.1	5625.1
52.5°	6201.6	6235.0	6365.9	6427.1	6275.4	6144.5	6271.2	6420.2	6328.3	6175.1	6104.1
55°	6666.6	6700.0	6892.2	7095.5	7088.5	6998.0	7062.1	7064.8	6815.6	6562.2	6487.0
57.5°	6766.9	6800.3	7166.5	7698.4	8074.3	8178.7	7990.8	7595.3	6967.4	6523.2	6438.3
60°	6232.2	6269.8	6851.8	7823.7	9060.1	9757.7	8891.6	7584.2	6498.2	5896.7	5815.9
62.5°	4828.7	4869.1	5651.6	7110.8	9458.3	11338.0	9153.4	6786.4	5345.3	4583.7	4512.6
65°	2305.8	2305.8	3299.9	5100.2	8664.7	11300.4	8395.9	5020.9	3217.7	2471.4	2410.2
67.5°	570.9	573.7	849.3	1985.5	5893.9	9018.3	5989.9	2410.2	1133.4	802.0	781.1
70°	356.4	355.1	394.0	537.5	2062.1	5473.4	2449.2	726.8	460.9	406.6	403.8
72.5°	277.1	277.1	296.6	343.9	540.2	1864.4	714.3	403.8	334.2	300.8	300.8
75°	218.6	218.6	232.5	257.6	318.9	480.4	380.1	299.4	259.0	236.7	233.9
77.5°	162.9	165.7	176.8	193.5	217.2	270.1	240.9	225.6	201.9	185.2	179.6
80°	105.8	110.0	123.9	133.7	142.0	178.2	157.3	164.3	153.2	133.7	130.9
82.5°	57.1	58.5	75.2	78.0	80.8	97.5	100.3	104.4	108.6	84.9	79.4
85°	20.9	20.9	25.1	29.2	32.0	34.8	47.3	58.5	61.3	48.7	47.3
87.5°	4.2	4.2	4.2	2.8	2.8	2.8	8.4	15.3	25.1	19.5	19.5
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)