

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: P638351

Luminaire Tested: GWS-SA4E-760-U-5WQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638351
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-SA4E-760-U-5WQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31300.9 lumens
Efficiency: N/A
Efficacy: 154.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

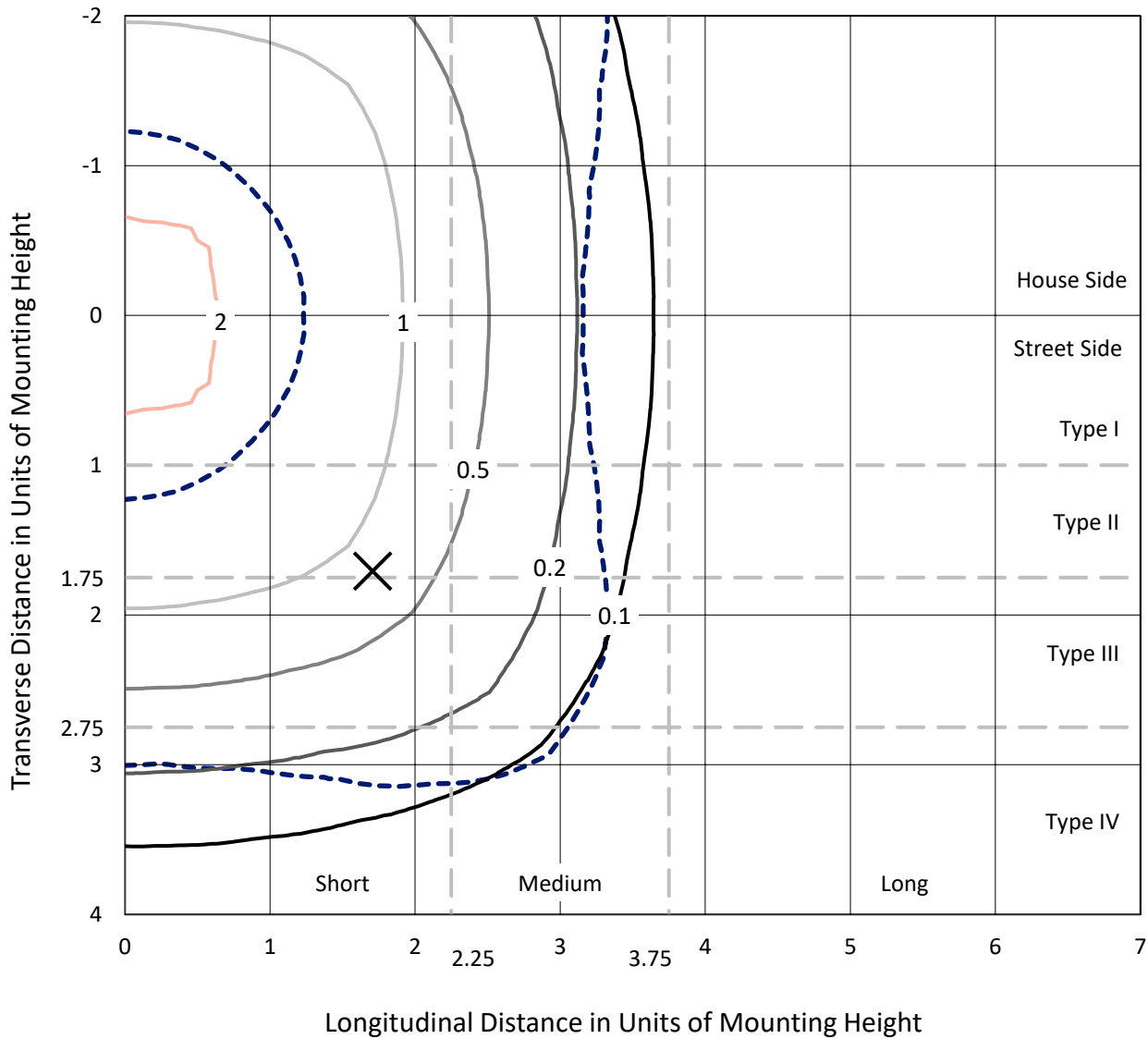
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

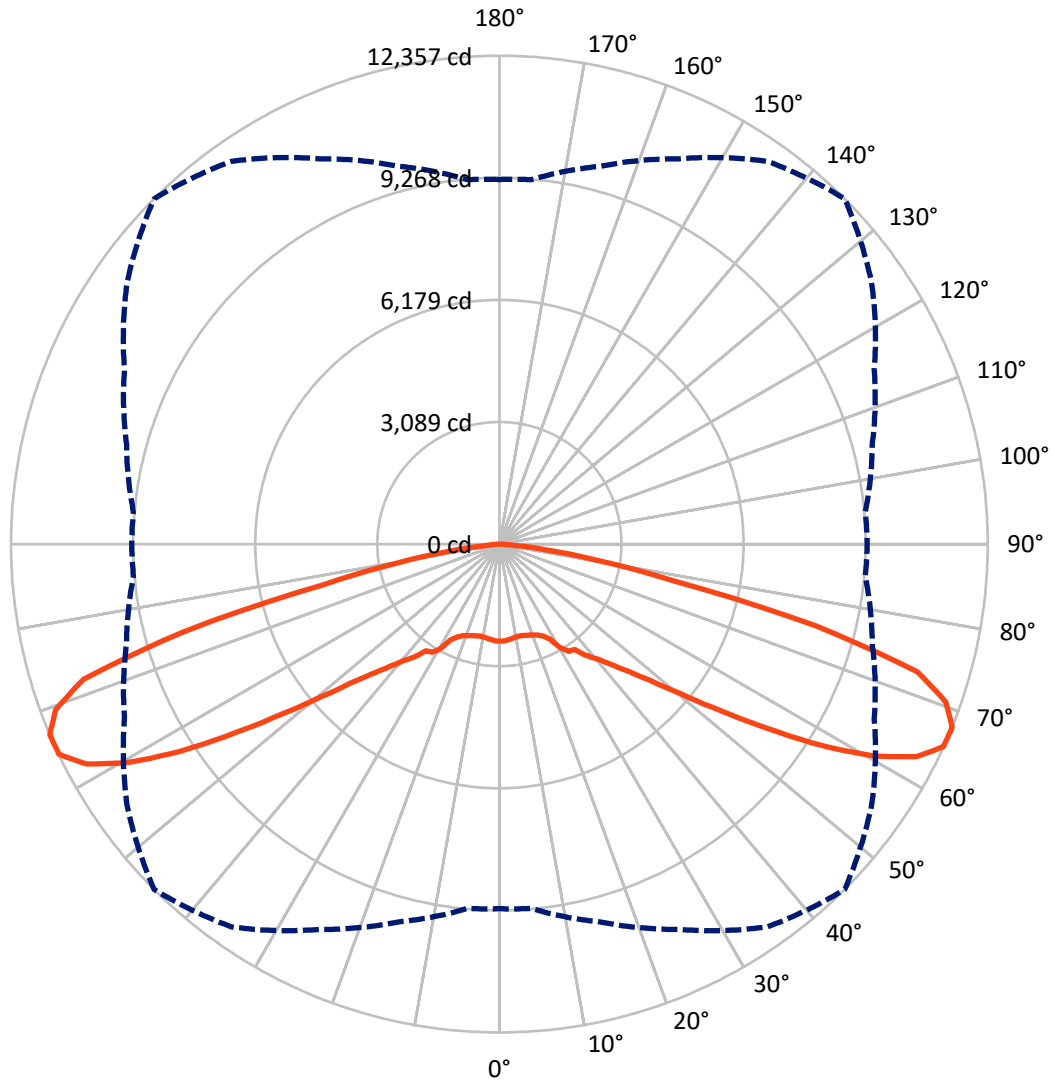
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.7 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	15650.5	0.0	15650.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15650.5	0.0	15650.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	31300.9	0.0	31300.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.5	0.7
10°-20°	683.9	2.2
20°-30°	1226.9	3.9
30°-40°	2072.6	6.6
40°-50°	3641.5	11.6
50°-60°	7024.6	22.4
60°-70°	10191.7	32.6
70°-80°	5831.3	18.6
80°-90°	398.0	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°	31300.9	100.0
0°-180°	31300.9	100.0

Coefficient of Utilization



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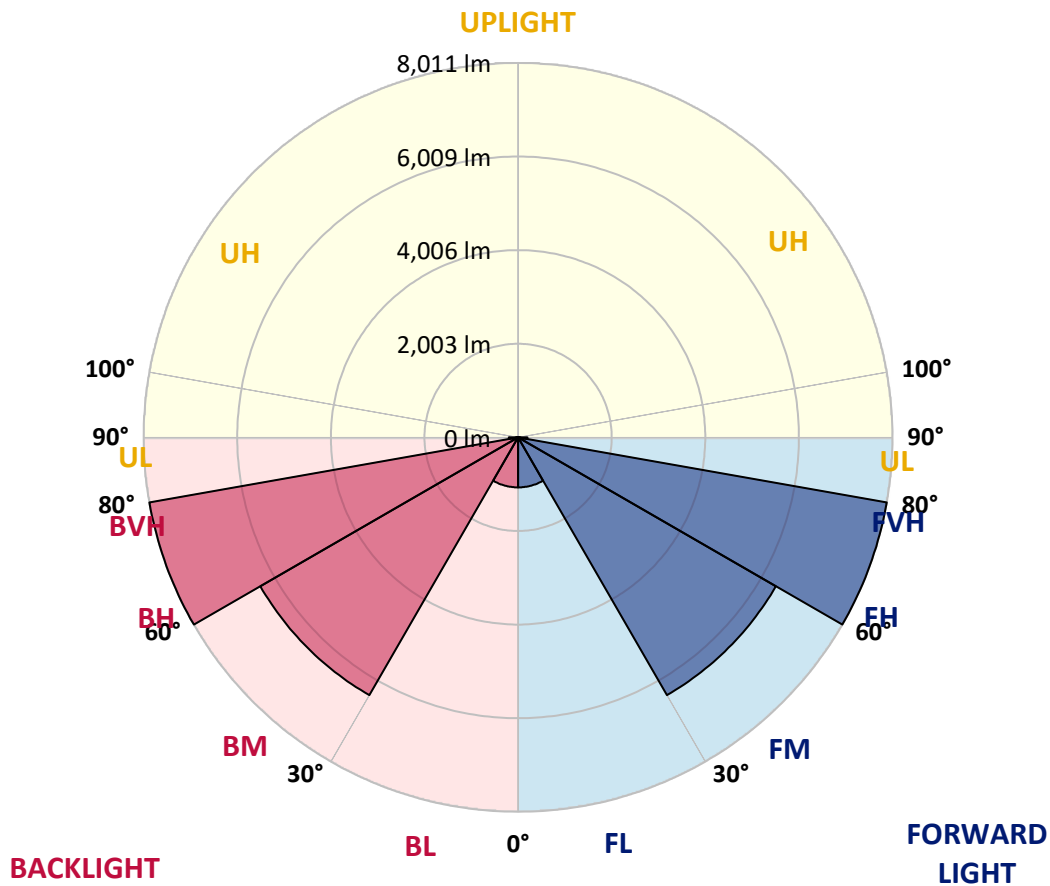
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1070.7	3.4			
FM (30°-60°)	6369.3	20.3			
FH (60°-80°)	8011.5	25.6			G4/12000
FVH (80°-90°)	199.0	0.6			G2/225
BL (0°-30°)	1070.7	3.4	B3/2500		
BM (30°-60°)	6369.3	20.3	B4/8500		
BH (60°-80°)	8011.5	25.6	B5		G4/12000
BVH (80°-90°)	199.0	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-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2454.6	2454.6	2454.6	2454.6	2454.6	2454.6	2454.6	2454.6	2454.6	2454.6	2454.6
2.5°	2434.7	2436.9	2441.3	2441.3	2445.8	2452.4	2454.6	2450.2	2452.4	2441.3	2452.4
5°	2428.1	2430.3	2432.5	2428.1	2428.1	2430.3	2430.3	2425.9	2428.1	2417.0	2428.1
7.5°	2412.6	2414.8	2414.8	2408.1	2401.5	2405.9	2405.9	2401.5	2403.7	2392.7	2405.9
10°	2399.3	2399.3	2397.1	2383.8	2377.2	2383.8	2386.0	2388.2	2397.1	2388.2	2403.7
12.5°	2408.1	2408.1	2401.5	2383.8	2372.7	2377.2	2381.6	2386.0	2401.5	2399.3	2417.0
15°	2432.5	2434.7	2417.0	2397.1	2390.4	2397.1	2392.7	2390.4	2410.4	2417.0	2436.9
17.5°	2452.4	2452.4	2430.3	2410.4	2412.6	2423.6	2414.8	2403.7	2423.6	2436.9	2459.1
20°	2470.1	2467.9	2443.6	2430.3	2439.1	2454.6	2448.0	2432.5	2445.8	2461.3	2481.2
22.5°	2514.4	2512.2	2485.6	2479.0	2487.8	2503.3	2496.7	2483.4	2498.9	2521.0	2545.4
25°	2640.6	2636.1	2596.3	2574.2	2569.7	2580.8	2578.6	2574.2	2598.5	2625.1	2653.8
27.5°	2808.8	2806.6	2777.8	2755.6	2726.9	2718.0	2724.7	2744.6	2780.0	2799.9	2824.3
30°	2892.9	2892.9	2888.5	2923.9	2985.8	3045.6	2999.1	2923.9	2892.9	2884.0	2908.4
32.5°	3003.5	3014.6	2999.1	3039.0	3143.0	3231.5	3143.0	3021.3	2999.1	2999.1	3025.7
35°	3258.1	3262.5	3238.2	3231.5	3264.7	3275.8	3233.7	3189.5	3213.8	3218.2	3251.4
37.5°	3461.7	3461.7	3450.6	3468.4	3537.0	3579.0	3510.4	3430.7	3437.4	3441.8	3483.8
40°	3776.0	3784.9	3758.3	3756.1	3782.7	3820.3	3747.2	3696.3	3731.7	3742.8	3807.0
42.5°	4167.8	4167.8	4127.9	4116.9	4134.6	4174.4	4105.8	4072.6	4119.1	4127.9	4165.6
45°	4634.8	4645.9	4592.7	4572.8	4581.7	4595.0	4546.3	4530.8	4575.0	4595.0	4661.4
47.5°	5203.6	5214.7	5168.2	5166.0	5157.2	5166.0	5119.5	5110.7	5146.1	5130.6	5201.4
50°	5905.3	5925.2	5885.4	5940.7	5934.1	5960.6	5896.4	5849.9	5849.9	5807.9	5847.7
52.5°	6691.0	6730.9	6750.8	6843.7	6914.6	6981.0	6874.7	6801.7	6695.5	6609.1	6717.6
55°	7547.6	7536.5	7662.7	7866.3	8074.4	8231.5	8023.5	7793.3	7620.6	7441.4	7483.4
57.5°	8297.9	8335.6	8501.6	8873.4	9285.1	9617.1	9243.0	8800.4	8408.6	8151.8	8187.3
60°	8922.1	8953.1	9174.4	9710.1	10429.4	10887.6	10294.4	9564.0	8995.1	8641.0	8678.6
62.5°	9497.6	9526.4	9749.9	10340.9	11248.4	11846.0	11080.1	10081.9	9448.9	9092.5	9114.7
65°	9829.6	9847.3	10152.7	10774.7	11730.9	12348.4	11485.2	10456.0	9834.0	9471.0	9484.3
67.5°	9225.3	9254.1	9898.2	10757.0	11823.8	12357.3	11502.9	10467.0	9767.6	9293.9	9305.0
70°	7277.6	7253.2	8021.3	9497.6	11290.4	11985.4	10991.6	9681.3	8601.2	7939.4	7928.3
72.5°	5548.9	5555.6	5982.7	6994.3	9205.4	11060.2	9699.0	7795.5	6631.3	6128.8	6108.9
75°	4023.9	4085.9	4433.4	5174.9	6438.7	8266.9	7301.9	5776.9	4997.8	4696.8	4652.5
77.5°	1812.8	1892.4	2377.2	3249.2	4305.0	4568.4	4586.1	3922.1	2959.3	2459.1	2381.6
80°	529.0	566.6	728.2	1246.1	2005.3	2591.9	2058.4	1730.9	1077.9	845.5	805.7
82.5°	223.6	254.5	312.1	345.3	582.1	1201.9	748.1	475.9	442.7	358.6	327.6
85°	95.2	101.8	130.6	139.4	188.1	256.8	236.8	214.7	205.8	159.4	146.1
87.5°	39.8	39.8	39.8	35.4	33.2	35.4	48.7	62.0	81.9	64.2	59.8
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)