

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: P637848

Luminaire Tested: GWS-SA4D-760-U-5MQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637848
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-760-U-5MQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15095.6 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

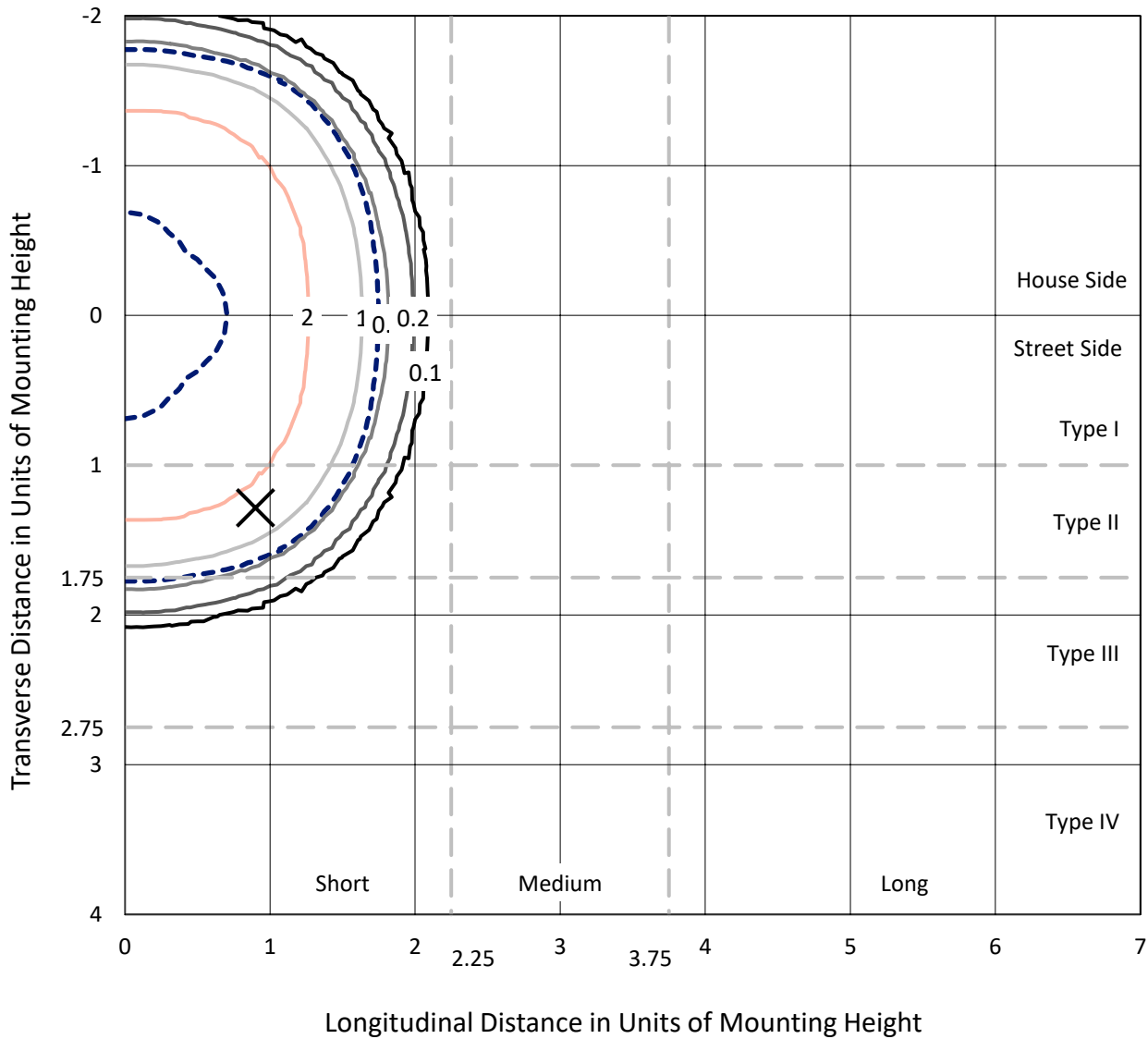
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

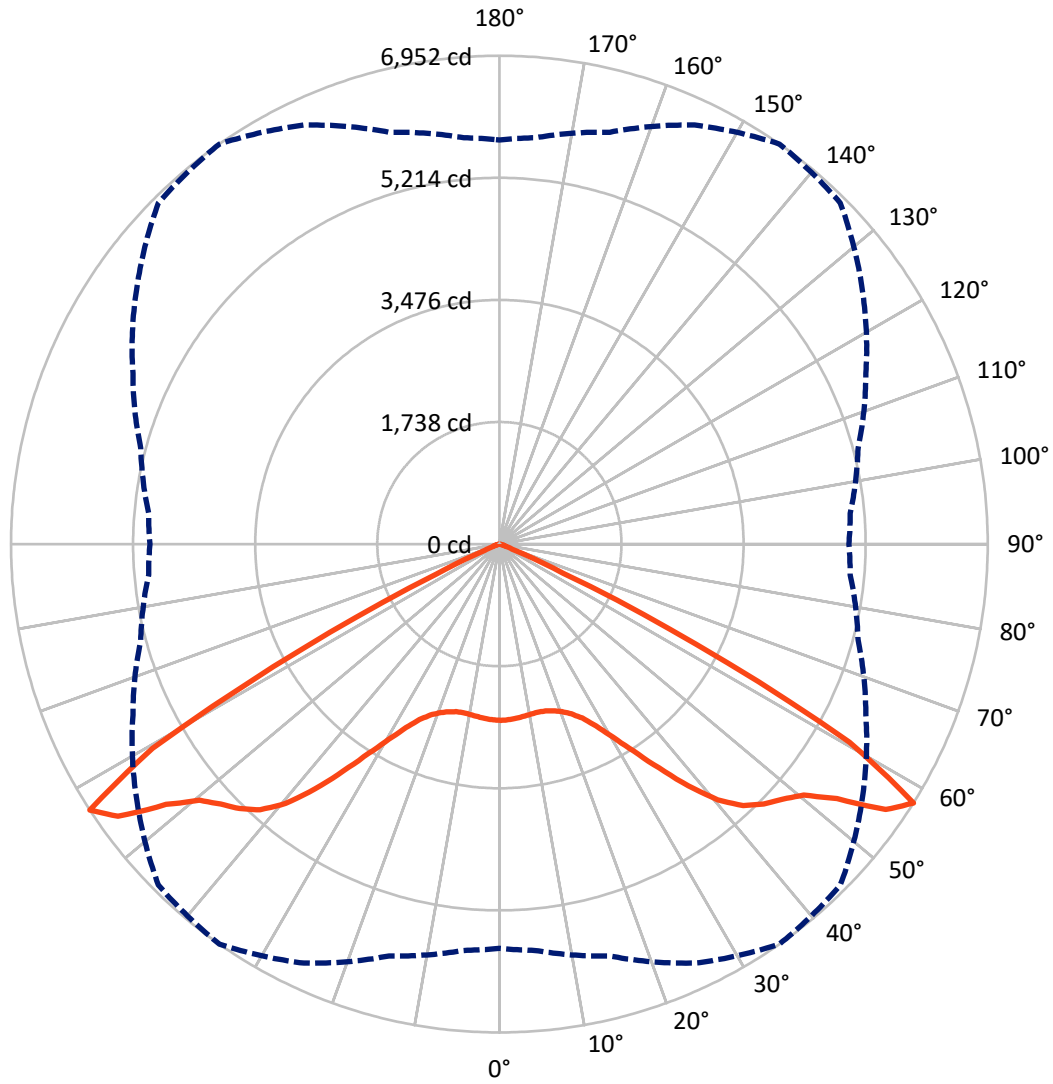
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7547.8	0.0	7547.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7547.8	0.0	7547.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	15095.6	0.0	15095.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.5	1.6
10°-20°	695.6	4.6
20°-30°	1257.3	8.3
30°-40°	2345.6	15.5
40°-50°	3934.7	26.1
50°-60°	5196.2	34.4
60°-70°	1380.0	9.1
70°-80°	49.0	0.3
80°-90°	0.9	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°	15095.6	100.0
0°-180°	15095.6	100.0

Coefficient of Utilization



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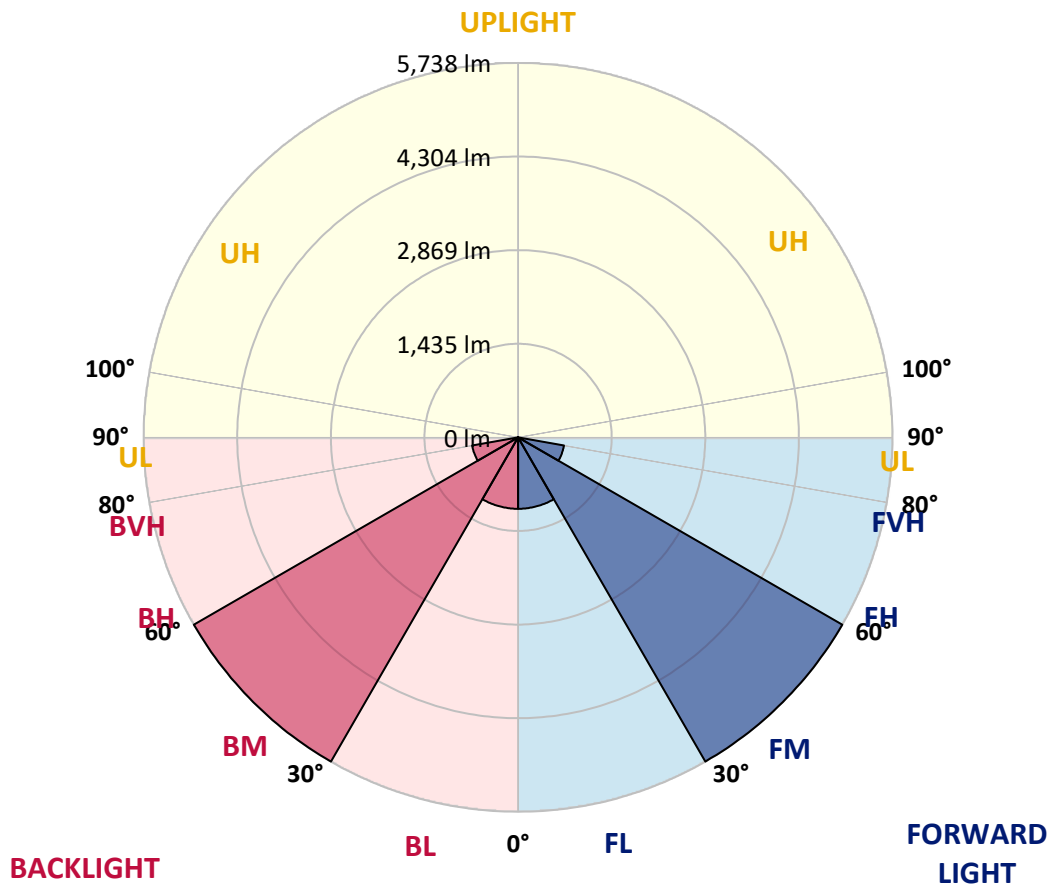
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1094.7	7.3			
FM (30°-60°)	5738.2	38.0			
FH (60°-80°)	714.5	4.7			G1/1800
FVH (80°-90°)	0.4	0.0			G0/10
BL (0°-30°)	1094.7	7.3	B3/2500		
BM (30°-60°)	5738.2	38.0	B4/8500		
BH (60°-80°)	714.5	4.7	B2/1000		G1/1800
BVH (80°-90°)	0.4	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2509.8	2509.8	2509.8	2509.8	2509.8	2509.8	2509.8	2509.8	2509.8	2509.8	2509.8
2.5°	2492.1	2490.3	2497.4	2502.7	2502.7	2515.1	2511.6	2508.0	2504.5	2499.2	2511.6
5°	2488.5	2486.8	2492.1	2495.6	2492.1	2502.7	2495.6	2488.5	2485.0	2477.9	2492.1
7.5°	2472.6	2474.4	2477.9	2481.4	2476.1	2485.0	2476.1	2465.5	2456.6	2449.6	2462.0
10°	2447.8	2449.6	2453.1	2460.2	2462.0	2474.4	2462.0	2442.5	2430.1	2419.4	2431.8
12.5°	2435.4	2437.2	2442.5	2451.3	2453.1	2469.0	2453.1	2424.8	2407.1	2394.7	2407.1
15°	2438.9	2442.5	2449.6	2460.2	2463.7	2479.7	2458.4	2421.2	2396.4	2380.5	2391.1
17.5°	2451.3	2454.9	2465.5	2483.2	2495.6	2511.6	2485.0	2437.2	2403.5	2380.5	2391.1
20°	2467.3	2472.6	2490.3	2518.6	2545.2	2573.5	2539.9	2474.4	2430.1	2401.7	2410.6
22.5°	2511.6	2516.9	2541.7	2578.9	2623.1	2658.6	2617.8	2534.6	2474.4	2437.2	2446.0
25°	2601.9	2607.2	2639.1	2686.9	2743.6	2789.6	2738.3	2633.8	2555.8	2513.3	2516.9
27.5°	2743.6	2748.9	2786.1	2853.4	2929.6	2995.1	2920.7	2798.5	2709.9	2660.3	2660.3
30°	2922.5	2929.6	2979.1	3069.5	3188.1	3274.9	3174.0	3025.2	2911.8	2844.5	2846.3
32.5°	3152.7	3145.6	3216.5	3340.5	3508.7	3623.9	3475.1	3294.4	3154.5	3060.6	3069.5
35°	3448.5	3446.7	3526.4	3694.7	3914.3	4052.5	3875.4	3641.6	3473.3	3377.7	3379.4
37.5°	3829.3	3827.5	3919.6	4102.1	4366.0	4481.1	4282.7	4045.4	3864.7	3772.6	3783.3
40°	4275.7	4265.0	4346.5	4521.9	4785.8	4860.2	4644.1	4452.8	4279.2	4220.8	4249.1
42.5°	4700.7	4677.7	4725.5	4884.9	5088.6	5099.3	4936.3	4805.2	4686.6	4640.5	4658.2
45°	5042.6	5024.9	5069.2	5161.3	5278.2	5225.0	5147.1	5106.3	5010.7	4961.1	4977.1
47.5°	5297.6	5297.6	5350.8	5407.4	5425.2	5327.7	5340.1	5340.1	5244.5	5166.6	5147.1
50°	5517.3	5533.2	5612.9	5671.4	5612.9	5488.9	5559.8	5545.6	5350.8	5194.9	5154.2
52.5°	5868.0	5883.9	6006.1	6085.8	6020.3	5898.1	5906.9	5729.8	5442.9	5258.7	5194.9
55°	6239.9	6278.9	6456.0	6668.5	6670.3	6544.6	6310.8	5997.3	5648.3	5448.2	5382.7
57.5°	5752.8	5806.0	6069.9	6581.8	6951.9	6865.1	6307.2	5756.4	5285.2	5012.5	4975.3
60°	3958.6	4050.7	4314.6	5014.2	5728.0	5761.7	5102.8	4484.7	3944.4	3607.9	3615.0
62.5°	1672.0	1765.9	1914.7	2490.3	3145.6	3186.4	2867.6	2424.8	1983.7	1741.1	1778.3
65°	393.2	419.8	464.1	689.0	999.0	1045.0	963.5	751.0	554.4	469.4	478.2
67.5°	171.8	175.3	166.5	177.1	219.6	224.9	217.9	191.3	180.7	184.2	184.2
70°	120.4	122.2	115.1	109.8	104.5	97.4	101.0	111.6	120.4	127.5	125.8
72.5°	74.4	76.2	77.9	77.9	72.6	65.5	69.1	76.2	77.9	79.7	77.9
75°	37.2	39.0	42.5	44.3	42.5	40.7	40.7	42.5	42.5	40.7	40.7
77.5°	7.1	8.9	12.4	14.2	14.2	14.2	14.2	14.2	15.9	14.2	14.2
80°	1.8	1.8	3.5	1.8	1.8	1.8	1.8	1.8	1.8	3.5	3.5
82.5°	1.8	1.8	1.8	1.8	0.0	0.0	1.8	1.8	1.8	1.8	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8
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)