

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: P638679

Luminaire Tested: GWS-SA4F-735-U-5WQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638679
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-735-U-5WQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17660.2 lumens
Efficiency: N/A
Efficacy: 78.4 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): 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

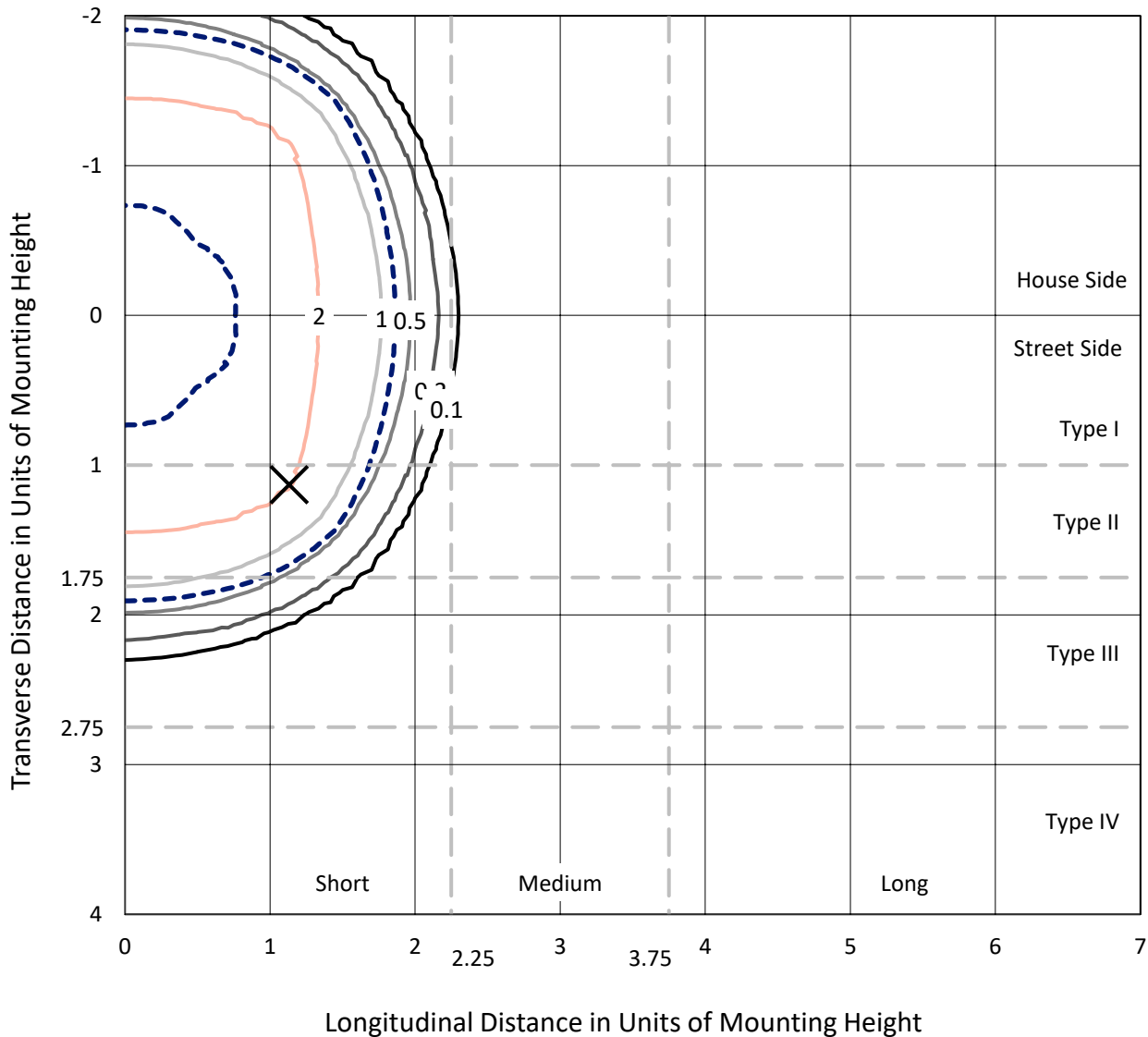


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Iso-Footcandle Lines of Horizontal Illumination

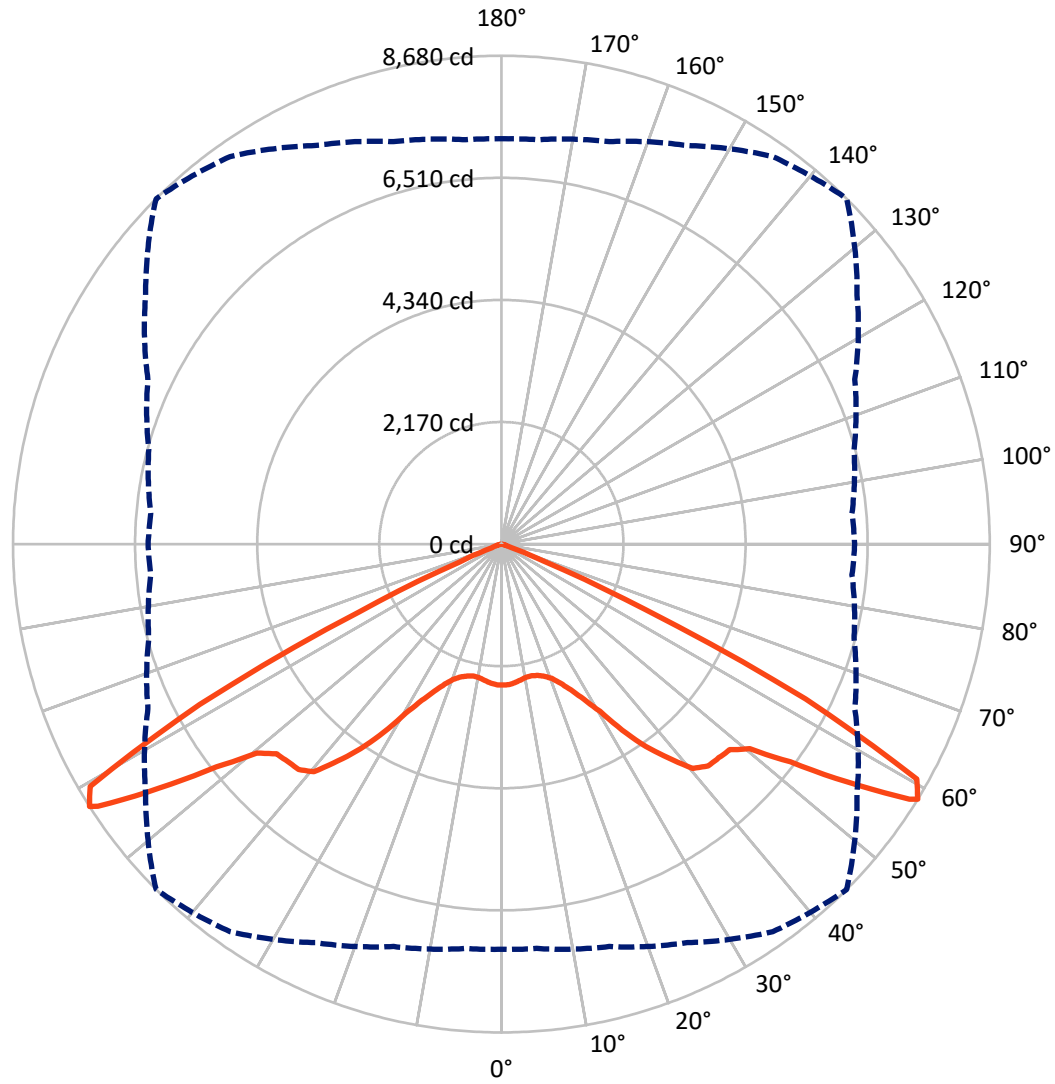
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8830.1	0.0	8830.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8830.1	0.0	8830.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	17660.2	0.0	17660.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.7	1.3
10°-20°	691.4	3.9
20°-30°	1307.6	7.4
30°-40°	2579.0	14.6
40°-50°	4081.2	23.1
50°-60°	5999.1	34.0
60°-70°	2677.8	15.2
70°-80°	89.7	0.5
80°-90°	0.7	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°	17660.2	100.0
0°-180°	17660.2	100.0

Coefficient of Utilization



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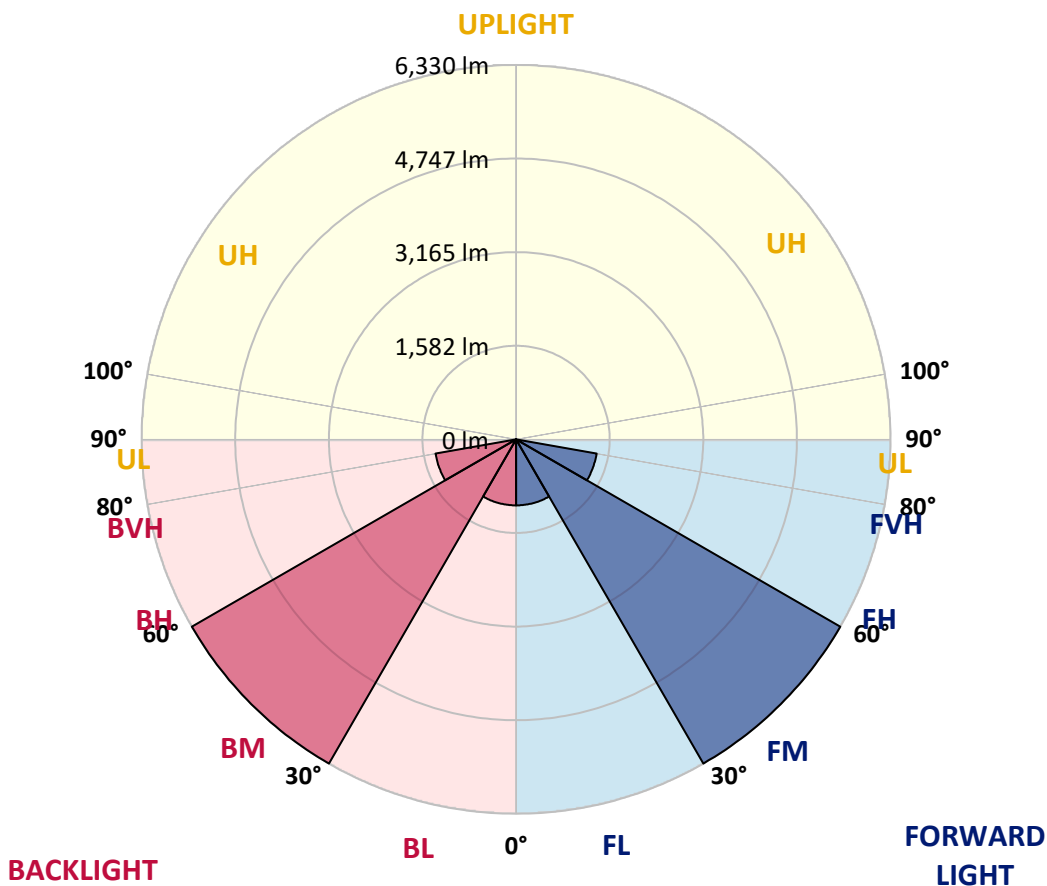
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1116.4	6.3			
FM (30°-60°)	6329.6	35.8			
FH (60°-80°)	1383.7	7.8			G1/1800
FVH (80°-90°)	0.4	0.0			G0/10
BL (0°-30°)	1116.4	6.3	B3/2500		
BM (30°-60°)	6329.6	35.8	B4/8500		
BH (60°-80°)	1383.7	7.8	B3/2500		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°	2504.5	2504.5	2504.5	2504.5	2504.5	2504.5	2504.5	2504.5	2504.5	2504.5	2504.5
2.5°	2480.4	2485.2	2490.0	2492.4	2494.8	2502.0	2504.5	2497.2	2497.2	2482.8	2499.6
5°	2468.4	2473.2	2478.0	2475.6	2475.6	2475.6	2473.2	2463.6	2461.1	2446.7	2463.6
7.5°	2446.7	2451.5	2451.5	2444.3	2439.5	2439.5	2437.1	2425.1	2422.7	2408.2	2425.1
10°	2429.9	2432.3	2429.9	2415.4	2405.8	2405.8	2403.4	2398.6	2401.0	2391.4	2405.8
12.5°	2439.5	2441.9	2432.3	2413.0	2401.0	2398.6	2391.4	2384.2	2391.4	2389.0	2403.4
15°	2470.8	2473.2	2456.3	2432.3	2422.7	2422.7	2403.4	2384.2	2393.8	2396.2	2413.0
17.5°	2509.3	2509.3	2487.6	2466.0	2468.4	2468.4	2437.1	2403.4	2405.8	2415.4	2432.3
20°	2555.0	2555.0	2533.3	2528.5	2545.4	2547.8	2509.3	2456.3	2444.3	2451.5	2470.8
22.5°	2636.8	2636.8	2619.9	2632.0	2670.5	2682.5	2624.7	2550.2	2521.3	2526.1	2545.4
25°	2764.3	2764.3	2759.5	2788.3	2843.7	2870.1	2793.1	2694.5	2646.4	2639.2	2660.8
27.5°	2978.4	2980.8	2973.6	3016.9	3086.7	3117.9	3012.1	2882.2	2824.4	2812.4	2834.0
30°	3255.1	3255.1	3257.5	3317.6	3409.0	3449.9	3310.4	3158.8	3091.5	3053.0	3081.8
32.5°	3563.0	3567.8	3591.9	3692.9	3854.1	3938.3	3733.8	3522.1	3413.8	3373.0	3404.2
35°	4070.6	4024.9	3996.1	4070.6	4304.0	4414.7	4152.4	3904.6	3822.8	3818.0	3897.4
37.5°	4573.5	4547.0	4486.8	4563.8	4773.1	4823.7	4535.0	4328.1	4270.3	4301.6	4381.0
40°	4972.8	4924.7	4845.3	4917.5	5191.7	5242.3	4886.2	4681.7	4660.1	4729.8	4838.1
42.5°	5288.0	5220.6	5114.8	5131.6	5352.9	5389.0	5073.9	4919.9	4934.3	5020.9	5143.6
45°	5429.9	5377.0	5283.2	5275.9	5415.5	5417.9	5170.1	5090.7	5129.2	5196.6	5292.8
47.5°	5490.1	5466.0	5413.1	5401.1	5480.4	5461.2	5307.2	5273.5	5309.6	5328.9	5384.2
50°	5639.2	5639.2	5646.4	5656.1	5737.9	5718.6	5610.4	5571.9	5526.2	5458.8	5475.6
52.5°	6057.8	6074.7	6144.4	6221.4	6370.6	6433.1	6257.5	6033.8	5814.9	5668.1	5668.1
55°	6813.3	6830.1	6911.9	7041.8	7316.1	7465.2	7056.3	6563.1	6262.3	6062.6	6089.1
57.5°	7229.5	7248.7	7417.1	7768.4	8300.1	8552.7	7674.5	6943.2	6522.2	6293.6	6312.9
58°	7203.0	7215.0	7405.1	7816.5	8408.3	8680.2	7717.8	6931.1	6488.5	6255.1	6279.2
60°	6399.5	6382.6	6685.8	7272.8	8107.6	8482.9	7287.2	6327.3	5812.4	5574.3	5586.3
62.5°	4183.7	4193.3	4455.6	5069.0	5718.6	6072.3	5090.7	4376.2	3962.4	3818.0	3781.9
65°	1746.6	1715.3	1876.5	2218.2	2607.9	2805.2	2410.6	2040.1	1785.1	1688.9	1715.3
67.5°	449.9	437.9	447.5	560.6	685.7	810.8	680.8	519.7	452.3	457.1	457.1
70°	255.0	240.6	194.9	180.4	175.6	175.6	175.6	175.6	202.1	238.2	245.4
72.5°	192.5	180.4	141.9	122.7	108.3	101.0	105.9	122.7	146.8	178.0	182.8
75°	96.2	96.2	86.6	81.8	72.2	67.4	69.8	77.0	89.0	101.0	98.6
77.5°	19.2	21.7	24.1	28.9	24.1	24.1	24.1	28.9	28.9	31.3	28.9
80°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
82.5°	0.0	2.4	2.4	0.0	0.0	0.0	0.0	2.4	2.4	2.4	2.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)