

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: P638186

Luminaire Tested: GWS-SA4E-735-U-5WQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638186
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-735-U-5WQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30599.7 lumens
Efficiency: N/A
Efficacy: 151.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

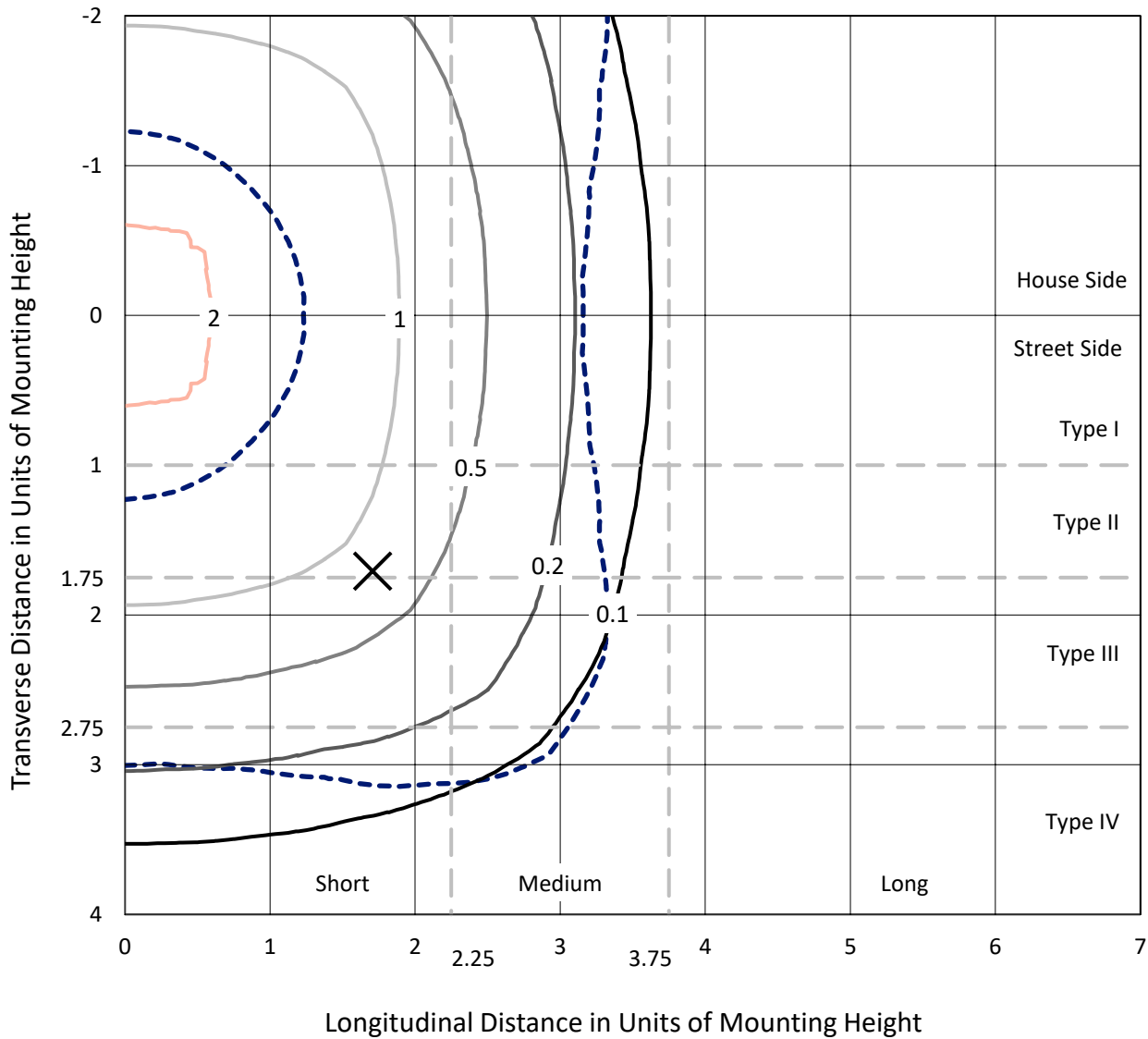
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638186
 CATALOG NUMBER: GWS-SA4E-735-U-5WQ-W

Iso-Footcandle Lines of Horizontal Illumination

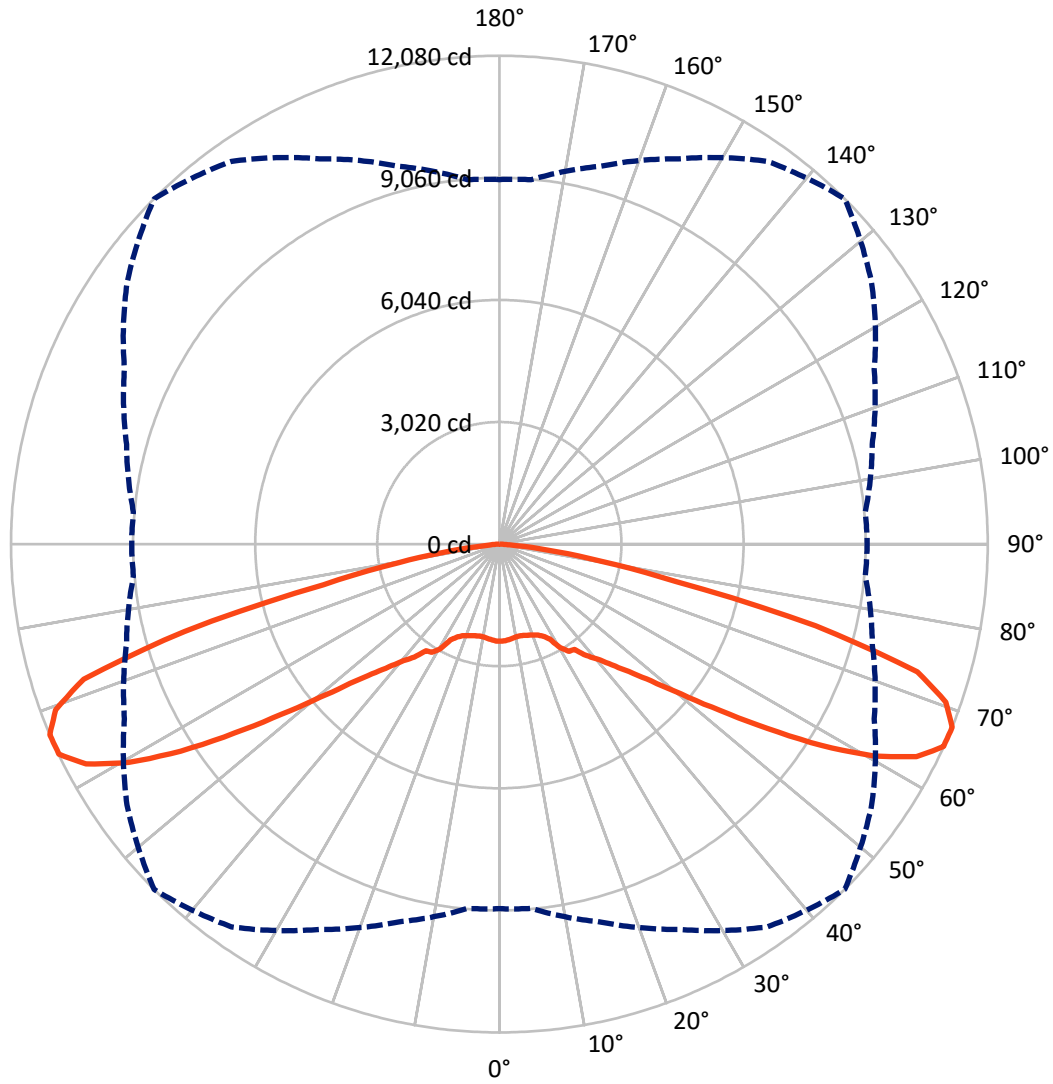
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - N/A

REPORT NUMBER: P638186
CATALOG NUMBER: GWS-SA4E-735-U-5WQ-W

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P638186

CATALOG NUMBER: GWS-SA4E-735-U-5WQ-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15299.8	0.0	15299.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15299.8	0.0	15299.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	30599.7	0.0	30599.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.3	0.7
10°-20°	668.6	2.2
20°-30°	1199.4	3.9
30°-40°	2026.1	6.6
40°-50°	3559.9	11.6
50°-60°	6867.2	22.4
60°-70°	9963.4	32.6
70°-80°	5700.6	18.6
80°-90°	389.1	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°	30599.7	100.0
0°-180°	30599.7	100.0

Coefficient of Utilization



REPORT NUMBER: P638186

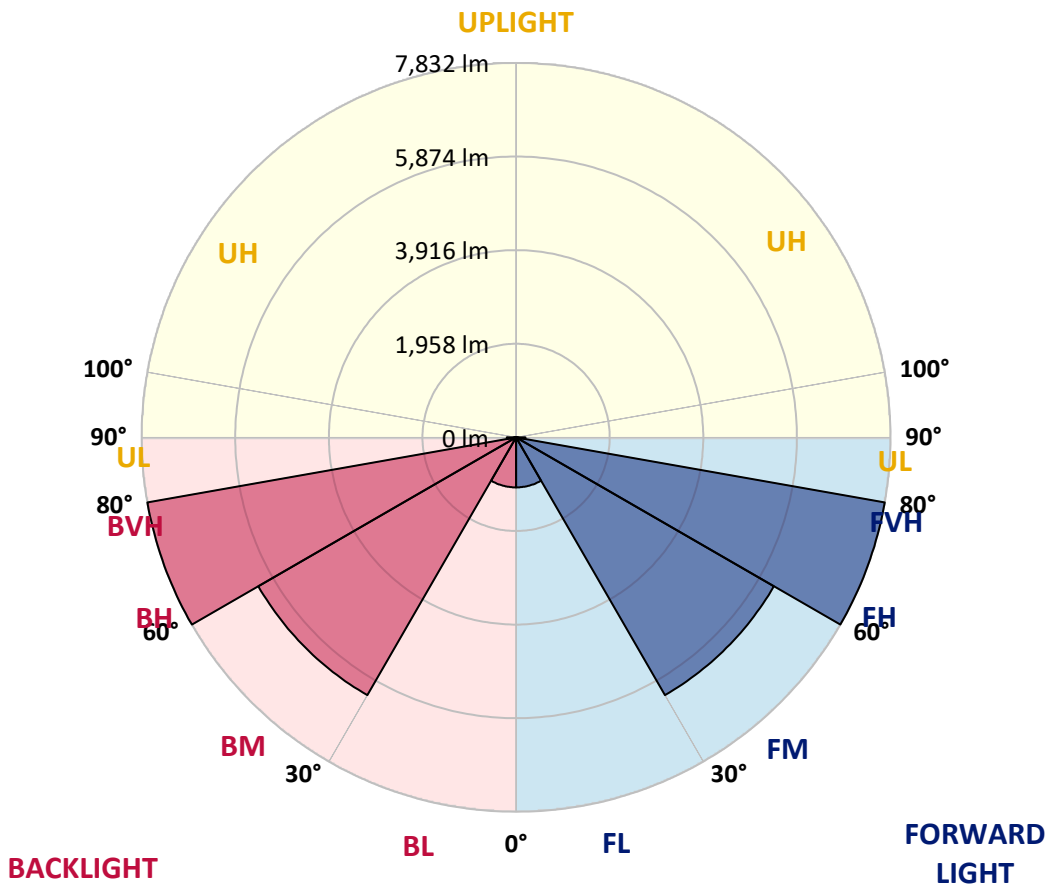
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1046.7	3.4			
FM (30°-60°)	6226.6	20.3			
FH (60°-80°)	7832.0	25.6			G4/12000
FVH (80°-90°)	194.5	0.6			G2/225
BL (0°-30°)	1046.7	3.4	B3/2500		
BM (30°-60°)	6226.6	20.3	B4/8500		
BH (60°-80°)	7832.0	25.6	B5		G4/12000
BVH (80°-90°)	194.5	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





REPORT NUMBER: P638186

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2399.6	2399.6	2399.6	2399.6	2399.6	2399.6	2399.6	2399.6	2399.6	2399.6	2399.6
2.5°	2380.2	2382.3	2386.7	2386.7	2391.0	2397.5	2399.6	2395.3	2397.5	2386.7	2397.5
5°	2373.7	2375.8	2378.0	2373.7	2373.7	2375.8	2375.8	2371.5	2373.7	2362.9	2373.7
7.5°	2358.5	2360.7	2360.7	2354.2	2347.7	2352.0	2352.0	2347.7	2349.9	2339.1	2352.0
10°	2345.5	2345.5	2343.4	2330.4	2323.9	2330.4	2332.6	2334.7	2343.4	2334.7	2349.9
12.5°	2354.2	2354.2	2347.7	2330.4	2319.6	2323.9	2328.2	2332.6	2347.7	2345.5	2362.9
15°	2378.0	2380.2	2362.9	2343.4	2336.9	2343.4	2339.1	2336.9	2356.4	2362.9	2382.3
17.5°	2397.5	2397.5	2375.8	2356.4	2358.5	2369.3	2360.7	2349.9	2369.3	2382.3	2404.0
20°	2414.8	2412.6	2388.8	2375.8	2384.5	2399.6	2393.1	2378.0	2391.0	2406.1	2425.6
22.5°	2458.1	2455.9	2429.9	2423.4	2432.1	2447.2	2440.8	2427.8	2442.9	2464.6	2488.4
25°	2581.4	2577.1	2538.1	2516.5	2512.2	2523.0	2520.8	2516.5	2540.3	2566.3	2594.4
27.5°	2745.8	2743.7	2715.6	2693.9	2665.8	2657.1	2663.6	2683.1	2717.7	2737.2	2761.0
30°	2828.1	2828.1	2823.7	2858.4	2919.0	2977.4	2931.9	2858.4	2828.1	2819.4	2843.2
32.5°	2936.3	2947.1	2931.9	2970.9	3072.6	3159.1	3072.6	2953.6	2931.9	2931.9	2957.9
35°	3185.1	3189.4	3165.6	3159.1	3191.6	3202.4	3161.3	3118.0	3141.8	3146.1	3178.6
37.5°	3384.2	3384.2	3373.3	3390.7	3457.7	3498.8	3431.8	3353.9	3360.4	3364.7	3405.8
40°	3691.4	3700.1	3674.1	3671.9	3697.9	3734.7	3663.3	3613.5	3648.1	3659.0	3721.7
42.5°	4074.4	4074.4	4035.5	4024.6	4042.0	4080.9	4013.8	3981.4	4026.8	4035.5	4072.2
45°	4531.0	4541.8	4489.9	4470.4	4479.0	4492.0	4444.4	4429.3	4472.6	4492.0	4556.9
47.5°	5087.1	5097.9	5052.4	5050.3	5041.6	5050.3	5004.8	4996.2	5030.8	5015.7	5084.9
50°	5773.0	5792.5	5753.5	5807.6	5801.1	5827.1	5764.3	5718.9	5718.9	5677.8	5716.7
52.5°	6541.1	6580.1	6599.6	6690.4	6759.7	6824.6	6720.7	6649.3	6545.5	6461.1	6567.1
55°	7378.5	7367.7	7491.0	7690.1	7893.5	8047.1	7843.7	7618.7	7449.9	7274.7	7315.8
57.5°	8112.0	8148.8	8311.1	8674.6	9077.1	9401.7	9036.0	8603.2	8220.2	7969.2	8003.9
60°	8722.2	8752.5	8968.9	9492.5	10195.8	10643.7	10063.8	9349.7	8793.6	8447.4	8484.2
62.5°	9284.8	9312.9	9531.5	10109.2	10996.4	11580.6	10831.9	9856.1	9237.2	8888.8	8910.5
65°	9609.4	9626.7	9925.3	10533.3	11468.1	12071.8	11227.9	10221.7	9613.7	9258.8	9271.8
67.5°	9018.7	9046.8	9676.5	10516.0	11559.0	12080.4	11245.2	10232.6	9548.8	9085.7	9096.6
70°	7114.5	7090.7	7841.6	9284.8	11037.5	11716.9	10745.4	9464.4	8408.5	7761.5	7750.7
72.5°	5424.6	5431.1	5848.7	6837.6	8999.2	10812.4	9481.7	7620.9	6482.7	5991.5	5972.1
75°	3933.8	3994.4	4334.1	5058.9	6294.5	8081.7	7138.3	5647.5	4885.8	4591.6	4548.3
77.5°	1772.1	1850.0	2323.9	3176.4	4208.6	4466.1	4483.4	3834.2	2893.0	2404.0	2328.2
80°	517.1	553.9	711.9	1218.2	1960.4	2533.8	2012.3	1692.1	1053.8	826.6	787.6
82.5°	218.5	248.8	305.1	337.6	569.1	1174.9	731.4	465.2	432.8	350.5	320.2
85°	93.0	99.5	127.7	136.3	183.9	251.0	231.5	209.9	201.2	155.8	142.8
87.5°	38.9	38.9	38.9	34.6	32.5	34.6	47.6	60.6	80.1	62.7	58.4
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)