

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: P638241

Luminaire Tested: GWS-SA4E-740-U-5WQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638241
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-740-U-5WQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31024.9 lumens
Efficiency: N/A
Efficacy: 153.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

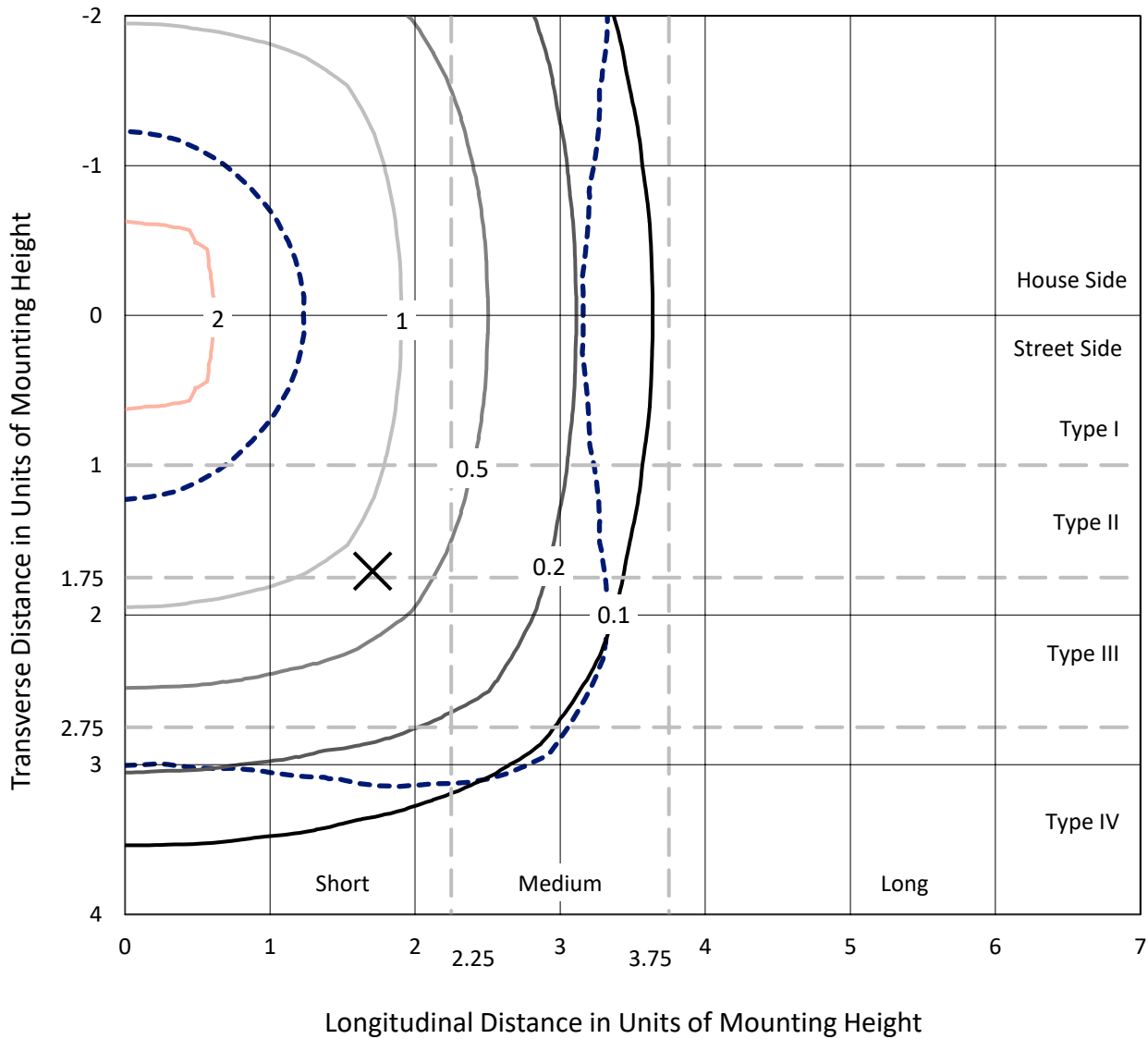
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

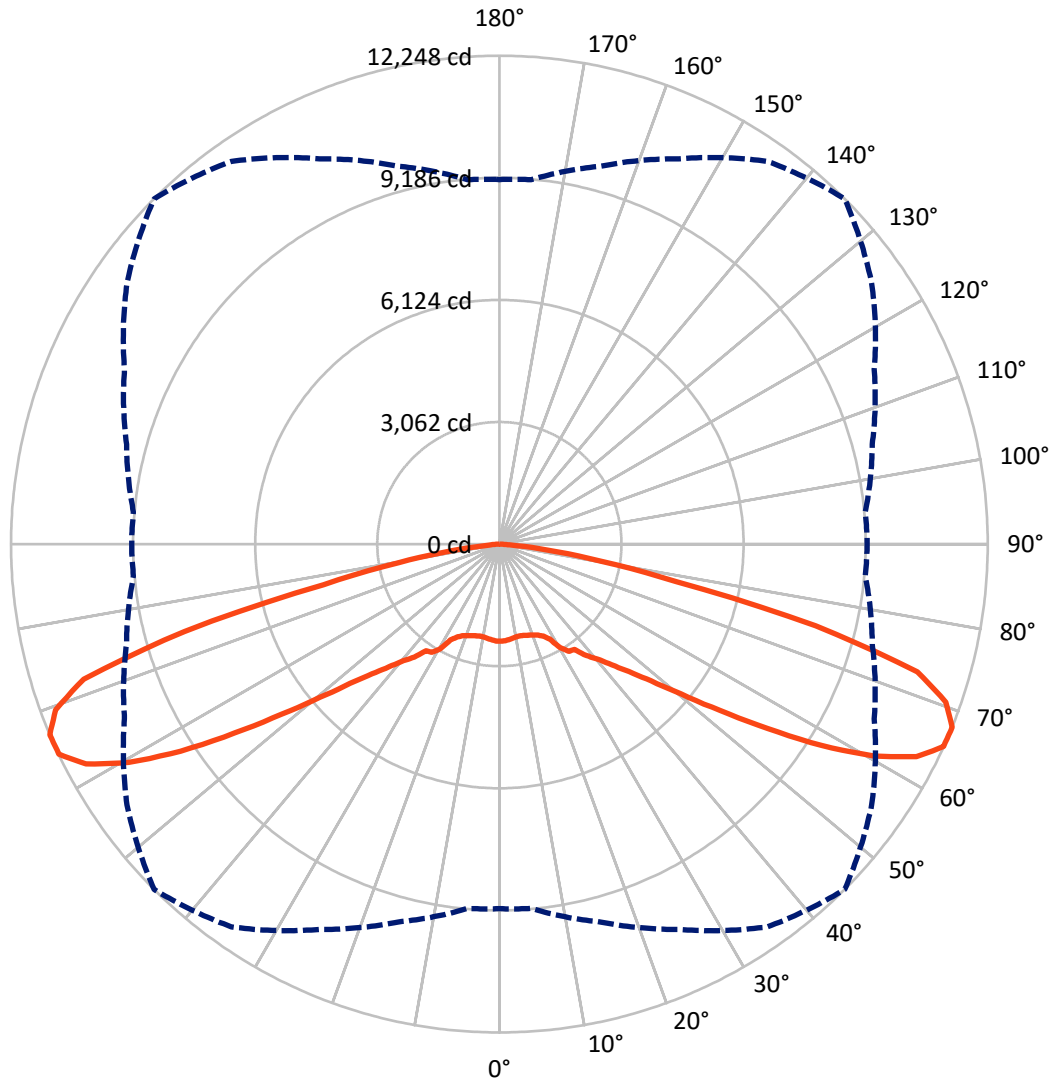
✕ Max cd
 - - - 1/2 Max cd



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	15512.5	0.0	15512.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15512.5	0.0	15512.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	31024.9	0.0	31024.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.4	0.7
10°-20°	677.9	2.2
20°-30°	1216.1	3.9
30°-40°	2054.3	6.6
40°-50°	3609.4	11.6
50°-60°	6962.6	22.4
60°-70°	10101.9	32.6
70°-80°	5779.8	18.6
80°-90°	394.5	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°	31024.9	100.0
0°-180°	31024.9	100.0

Coefficient of Utilization



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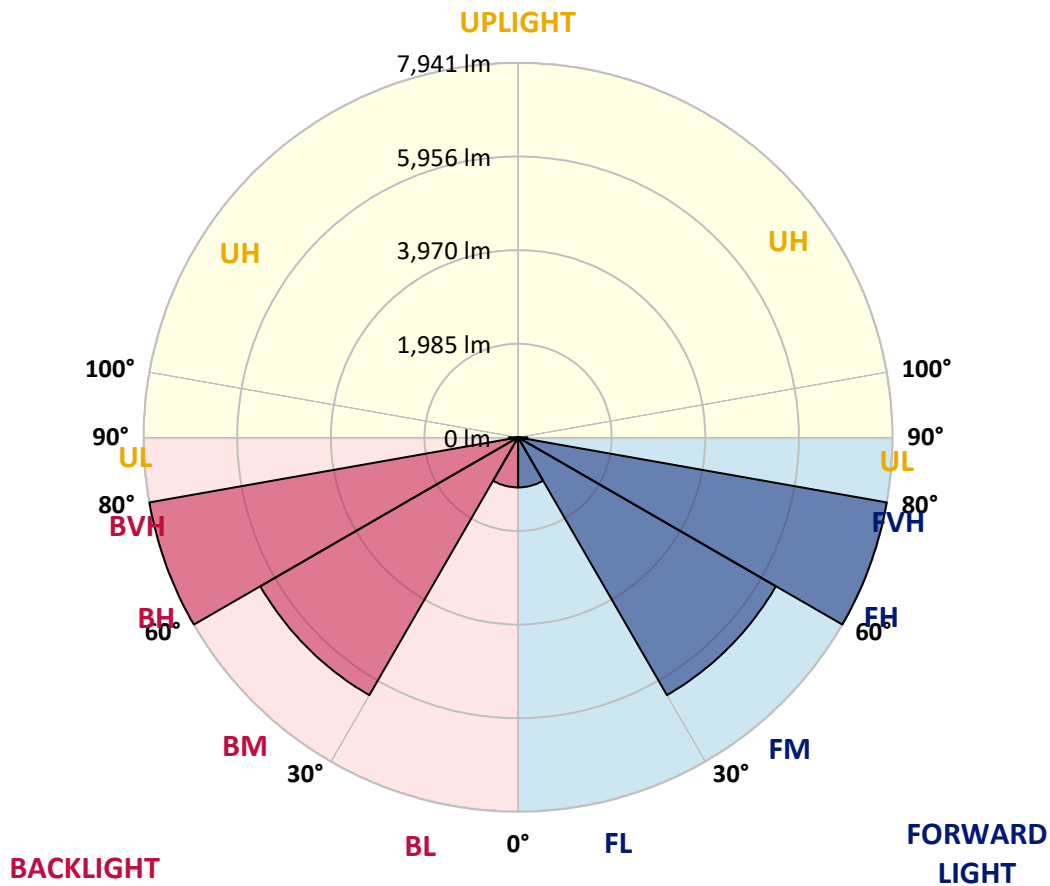
CATALOG NUMBER: GWS-SA4E-740-U-5WQ-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1061.2	3.4			
FM (30°-60°)	6313.2	20.3			
FH (60°-80°)	7940.8	25.6			G4/12000
FVH (80°-90°)	197.2	0.6			G2/225
BL (0°-30°)	1061.2	3.4	B3/2500		
BM (30°-60°)	6313.2	20.3	B4/8500		
BH (60°-80°)	7940.8	25.6	B5		G4/12000
BVH (80°-90°)	197.2	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°	2433.0	2433.0	2433.0	2433.0	2433.0	2433.0	2433.0	2433.0	2433.0	2433.0	2433.0
2.5°	2413.2	2415.4	2419.8	2419.8	2424.2	2430.8	2433.0	2428.6	2430.8	2419.8	2430.8
5°	2406.7	2408.9	2411.0	2406.7	2406.7	2408.9	2408.9	2404.5	2406.7	2395.7	2406.7
7.5°	2391.3	2393.5	2393.5	2386.9	2380.3	2384.7	2384.7	2380.3	2382.5	2371.6	2384.7
10°	2378.1	2378.1	2375.9	2362.8	2356.2	2362.8	2365.0	2367.2	2375.9	2367.2	2382.5
12.5°	2386.9	2386.9	2380.3	2362.8	2351.8	2356.2	2360.6	2365.0	2380.3	2378.1	2395.7
15°	2411.0	2413.2	2395.7	2375.9	2369.4	2375.9	2371.6	2369.4	2389.1	2395.7	2415.4
17.5°	2430.8	2430.8	2408.9	2389.1	2391.3	2402.3	2393.5	2382.5	2402.3	2415.4	2437.4
20°	2448.3	2446.1	2422.0	2408.9	2417.6	2433.0	2426.4	2411.0	2424.2	2439.6	2459.3
22.5°	2492.2	2490.0	2463.7	2457.1	2465.9	2481.3	2474.7	2461.5	2476.9	2498.8	2522.9
25°	2617.3	2612.9	2573.4	2551.5	2547.1	2558.0	2555.8	2551.5	2575.6	2601.9	2630.4
27.5°	2784.0	2781.8	2753.3	2731.3	2702.8	2694.1	2700.6	2720.4	2755.5	2775.2	2799.4
30°	2867.4	2867.4	2863.0	2898.1	2959.5	3018.7	2972.7	2898.1	2867.4	2858.6	2882.7
32.5°	2977.1	2988.0	2972.7	3012.2	3115.3	3203.0	3115.3	2994.6	2972.7	2972.7	2999.0
35°	3229.4	3233.7	3209.6	3203.0	3235.9	3246.9	3205.2	3161.3	3185.5	3189.9	3222.8
37.5°	3431.2	3431.2	3420.2	3437.8	3505.8	3547.5	3479.5	3400.5	3407.1	3411.4	3453.1
40°	3742.7	3751.5	3725.2	3723.0	3749.3	3786.6	3714.2	3663.7	3698.8	3709.8	3773.4
42.5°	4131.0	4131.0	4091.5	4080.6	4098.1	4137.6	4069.6	4036.7	4082.8	4091.5	4128.8
45°	4593.9	4604.9	4552.2	4532.5	4541.3	4554.4	4506.2	4490.8	4534.7	4554.4	4620.3
47.5°	5157.8	5168.7	5122.7	5120.5	5111.7	5120.5	5074.4	5065.6	5100.7	5085.4	5155.6
50°	5853.2	5873.0	5833.5	5888.3	5881.7	5908.1	5844.4	5798.4	5798.4	5756.7	5796.2
52.5°	6632.0	6671.5	6691.3	6783.4	6853.6	6919.4	6814.1	6741.7	6636.4	6550.9	6658.4
55°	7481.0	7470.1	7595.1	7797.0	8003.2	8158.9	7952.7	7724.6	7553.4	7375.7	7417.4
57.5°	8224.8	8262.1	8426.6	8795.2	9203.2	9532.3	9161.5	8722.8	8334.5	8080.0	8115.1
60°	8843.4	8874.1	9093.5	9624.4	10337.4	10791.6	10203.6	9479.6	8915.8	8564.8	8602.1
62.5°	9413.8	9442.4	9663.9	10249.7	11149.2	11741.5	10982.4	9993.0	9365.6	9012.4	9034.3
65°	9742.9	9760.5	10063.2	10679.7	11627.4	12239.5	11383.9	10363.8	9747.3	9387.5	9400.7
67.5°	9144.0	9172.5	9810.9	10662.1	11719.6	12248.3	11401.5	10374.7	9681.5	9212.0	9223.0
70°	7213.4	7189.3	7950.5	9413.8	11190.9	11879.7	10894.7	9595.9	8525.3	7869.4	7858.4
72.5°	5500.0	5506.6	5930.0	6932.6	9124.2	10962.7	9613.5	7726.8	6572.8	6074.8	6055.0
75°	3988.4	4049.9	4394.3	5129.2	6381.9	8194.0	7237.5	5726.0	4953.7	4655.4	4611.5
77.5°	1796.8	1875.7	2356.2	3220.6	4267.0	4528.1	4545.7	3887.5	2933.2	2437.4	2360.6
80°	524.3	561.6	721.8	1235.1	1987.6	2569.0	2040.3	1715.6	1068.4	838.1	798.6
82.5°	221.6	252.3	309.3	342.2	577.0	1191.3	741.5	471.7	438.8	355.4	324.7
85°	94.3	100.9	129.4	138.2	186.5	254.5	234.7	212.8	204.0	158.0	144.8
87.5°	39.5	39.5	39.5	35.1	32.9	35.1	48.3	61.4	81.2	63.6	59.2
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)