

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: P638349

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638349
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-SA4E-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16248.1 lumens
Efficiency: N/A
Efficacy: 80.2 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): 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

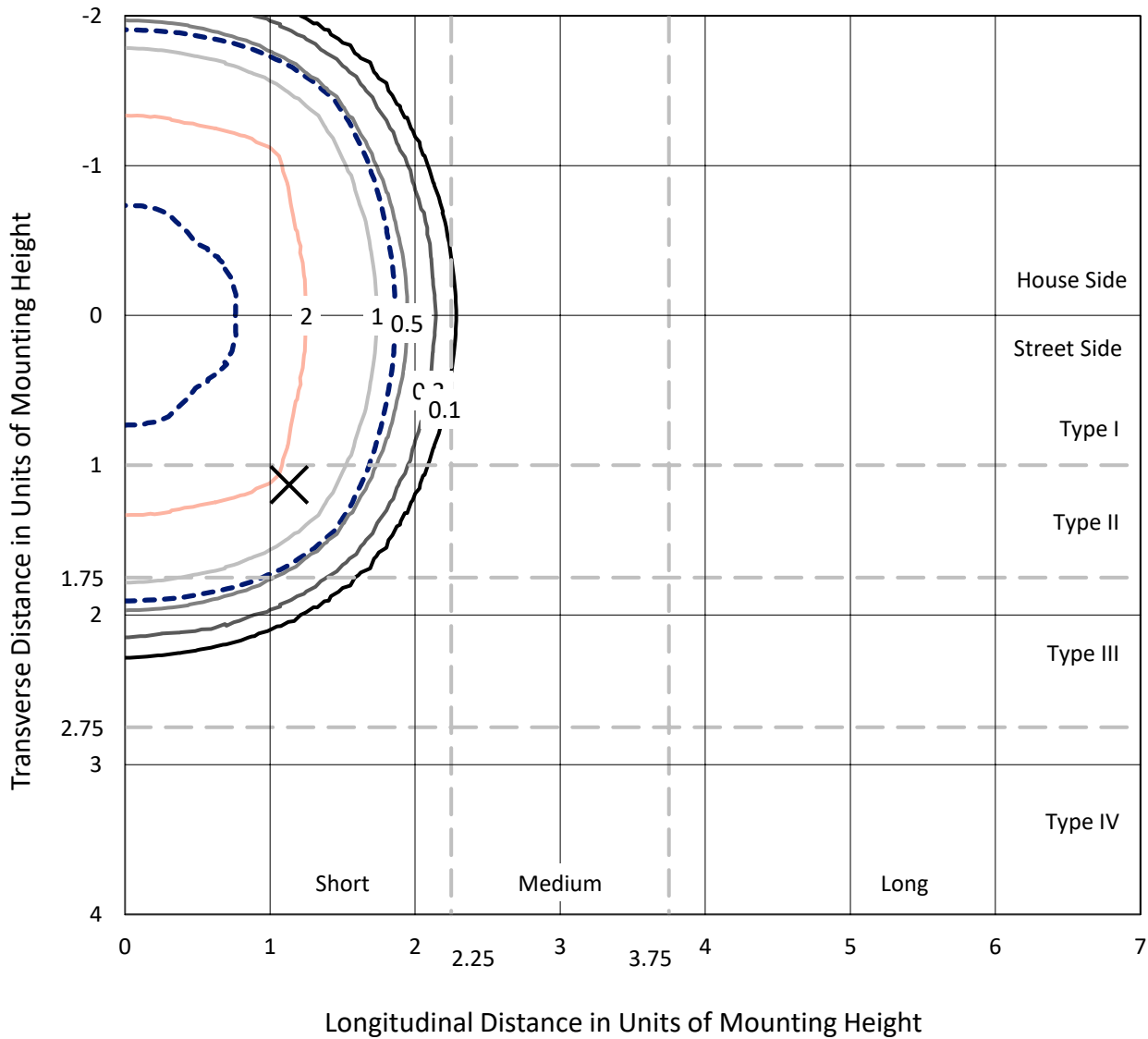


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Iso-Footcandle Lines of Horizontal Illumination

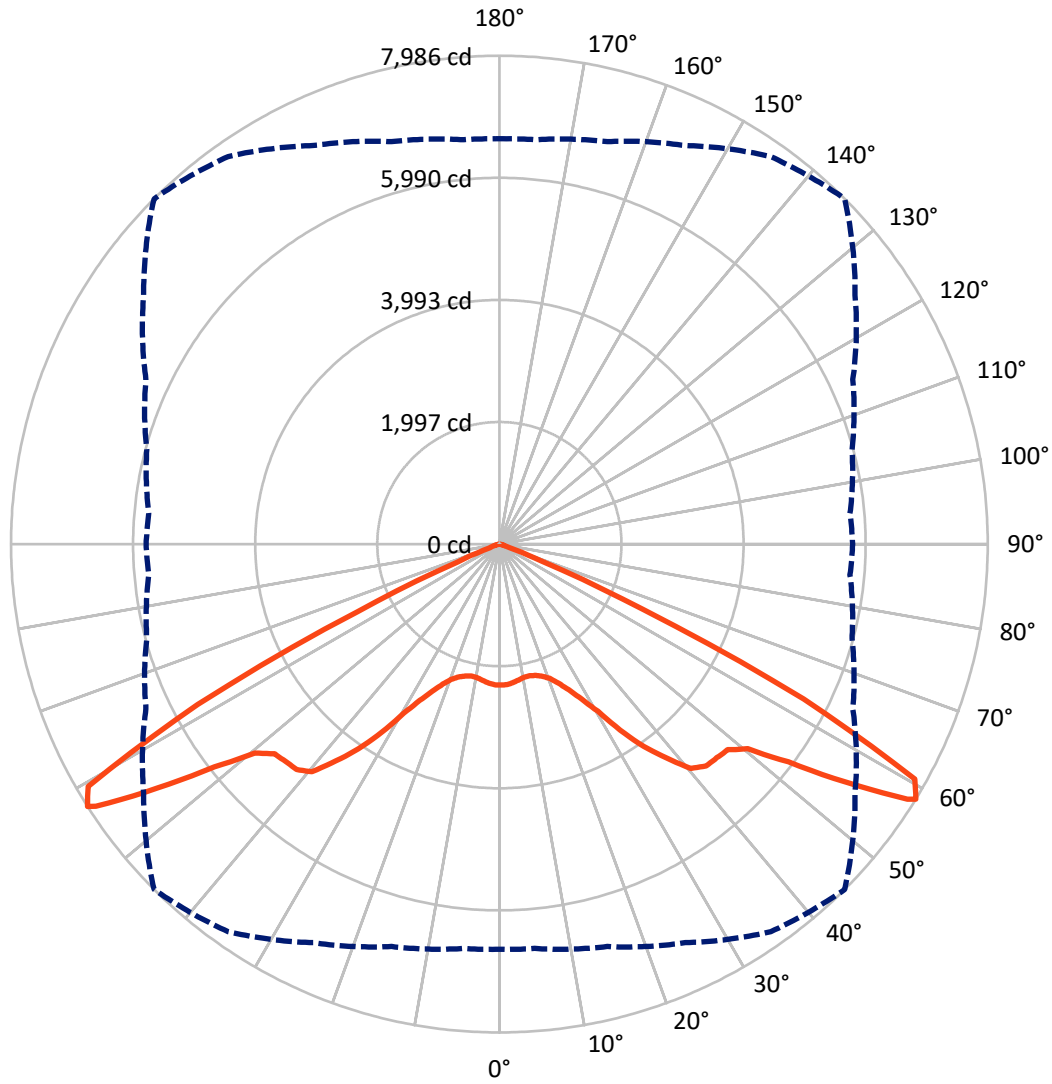
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	8124.1	0.0	8124.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8124.1	0.0	8124.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	16248.1	0.0	16248.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.0	1.3
10°-20°	636.1	3.9
20°-30°	1203.1	7.4
30°-40°	2372.8	14.6
40°-50°	3754.9	23.1
50°-60°	5519.4	34.0
60°-70°	2463.6	15.2
70°-80°	82.5	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°	16248.1	100.0
0°-180°	16248.1	100.0

Coefficient of Utilization



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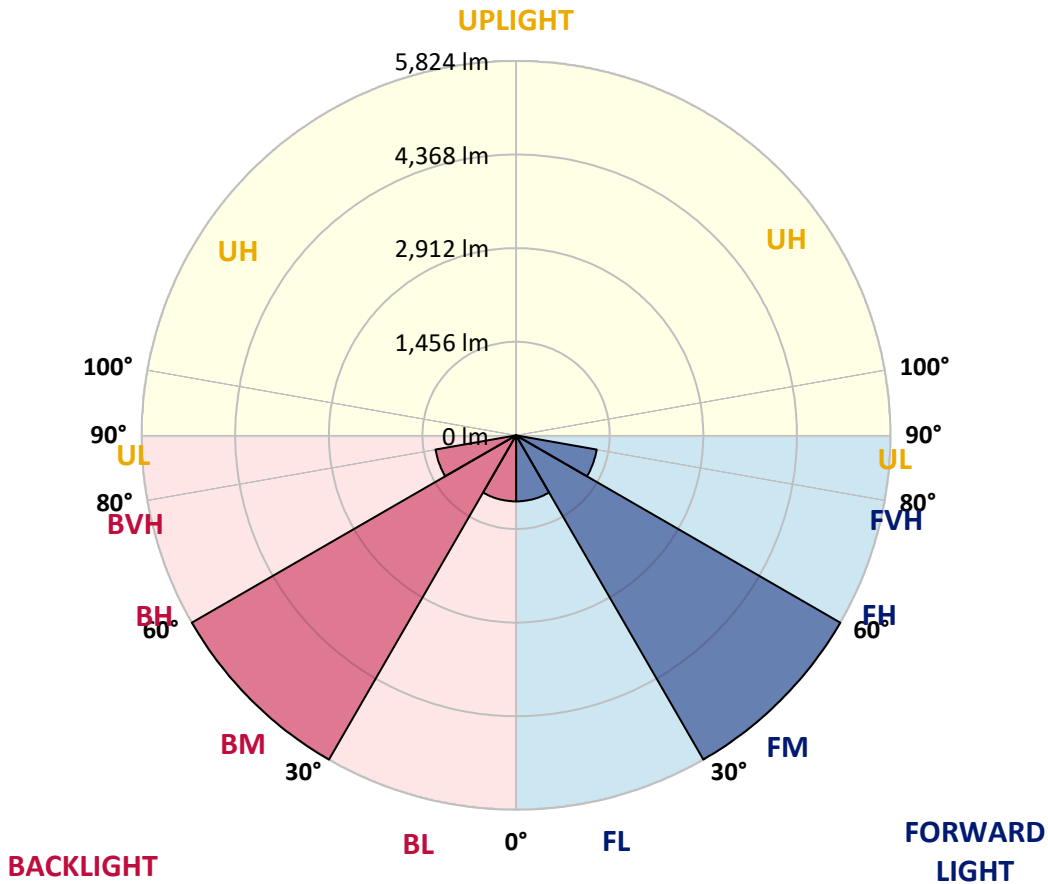
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1027.1	6.3			
FM (30°-60°)	5823.5	35.8			
FH (60°-80°)	1273.1	7.8			G1/1800
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	1027.1	6.3	B3/2500		
BM (30°-60°)	5823.5	35.8	B4/8500		
BH (60°-80°)	1273.1	7.8	B3/2500		G1/1800
BVH (80°-90°)	0.3	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°	2304.2	2304.2	2304.2	2304.2	2304.2	2304.2	2304.2	2304.2	2304.2	2304.2	2304.2
2.5°	2282.1	2286.5	2290.9	2293.1	2295.3	2302.0	2304.2	2297.6	2297.6	2284.3	2299.8
5°	2271.0	2275.4	2279.8	2277.6	2277.6	2277.6	2275.4	2266.6	2264.4	2251.1	2266.6
7.5°	2251.1	2255.5	2255.5	2248.9	2244.4	2244.4	2242.2	2231.2	2228.9	2215.7	2231.2
10°	2235.6	2237.8	2235.6	2222.3	2213.4	2213.4	2211.2	2206.8	2209.0	2200.2	2213.4
12.5°	2244.4	2246.6	2237.8	2220.1	2209.0	2206.8	2200.2	2193.5	2200.2	2198.0	2211.2
15°	2273.2	2275.4	2259.9	2237.8	2228.9	2228.9	2211.2	2193.5	2202.4	2204.6	2220.1
17.5°	2308.6	2308.6	2288.7	2268.8	2271.0	2271.0	2242.2	2211.2	2213.4	2222.3	2237.8
20°	2350.7	2350.7	2330.8	2326.3	2341.8	2344.0	2308.6	2259.9	2248.9	2255.5	2273.2
22.5°	2425.9	2425.9	2410.4	2421.5	2456.9	2468.0	2414.9	2346.3	2319.7	2324.1	2341.8
25°	2543.2	2543.2	2538.8	2565.4	2616.3	2640.6	2569.8	2479.1	2434.8	2428.1	2448.1
27.5°	2740.2	2742.5	2735.8	2775.7	2839.9	2868.6	2771.2	2651.7	2598.6	2587.5	2607.4
30°	2994.8	2994.8	2997.0	3052.3	3136.5	3174.1	3045.7	2906.3	2844.3	2808.9	2835.4
32.5°	3278.1	3282.5	3304.7	3397.6	3545.9	3623.4	3435.3	3240.5	3140.9	3103.3	3132.0
35°	3745.2	3703.1	3676.5	3745.2	3959.9	4061.7	3820.4	3592.4	3517.2	3512.7	3585.8
37.5°	4207.8	4183.4	4128.1	4198.9	4391.5	4438.0	4172.3	3982.0	3928.9	3957.6	4030.7
40°	4575.2	4530.9	4457.9	4524.3	4776.6	4823.1	4495.5	4307.4	4287.4	4351.6	4451.2
42.5°	4865.2	4803.2	4705.8	4721.3	4924.9	4958.1	4668.2	4526.5	4539.8	4619.5	4732.3
45°	4995.7	4947.1	4860.7	4854.1	4982.5	4984.7	4756.7	4683.7	4719.1	4781.0	4869.6
47.5°	5051.1	5028.9	4980.3	4969.2	5042.2	5024.5	4882.9	4851.9	4885.1	4902.8	4953.7
50°	5188.3	5188.3	5195.0	5203.8	5279.1	5261.4	5161.8	5126.3	5084.3	5022.3	5037.8
52.5°	5573.5	5589.0	5653.1	5724.0	5861.2	5918.8	5757.2	5551.3	5349.9	5214.9	5214.9
55°	6268.5	6284.0	6359.2	6478.8	6731.1	6868.3	6492.0	6038.3	5761.6	5577.9	5602.2
57.5°	6651.4	6669.1	6824.1	7147.2	7636.4	7868.8	7060.9	6388.0	6000.7	5790.4	5808.1
58°	6627.1	6638.1	6813.0	7191.5	7736.0	7986.1	7100.7	6376.9	5969.7	5755.0	5777.1
60°	5887.8	5872.3	6151.2	6691.2	7459.3	7804.6	6704.5	5821.4	5347.7	5128.6	5139.6
62.5°	3849.2	3858.0	4099.3	4663.7	5261.4	5586.7	4683.7	4026.3	3645.5	3512.7	3479.5
65°	1607.0	1578.2	1726.5	2040.8	2399.4	2580.9	2217.9	1877.0	1642.4	1553.8	1578.2
67.5°	413.9	402.8	411.7	515.7	630.8	745.9	626.4	478.1	416.1	420.6	420.6
70°	234.6	221.3	179.3	166.0	161.6	161.6	161.6	161.6	185.9	219.1	225.8
72.5°	177.1	166.0	130.6	112.9	99.6	93.0	97.4	112.9	135.0	163.8	168.2
75°	88.5	88.5	79.7	75.3	66.4	62.0	64.2	70.8	81.9	93.0	90.8
77.5°	17.7	19.9	22.1	26.6	22.1	22.1	22.1	26.6	26.6	28.8	26.6
80°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
82.5°	0.0	2.2	2.2	0.0	0.0	0.0	0.0	2.2	2.2	2.2	2.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2
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)