

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: P638343

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638343
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-SA4E-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: 18864.2 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

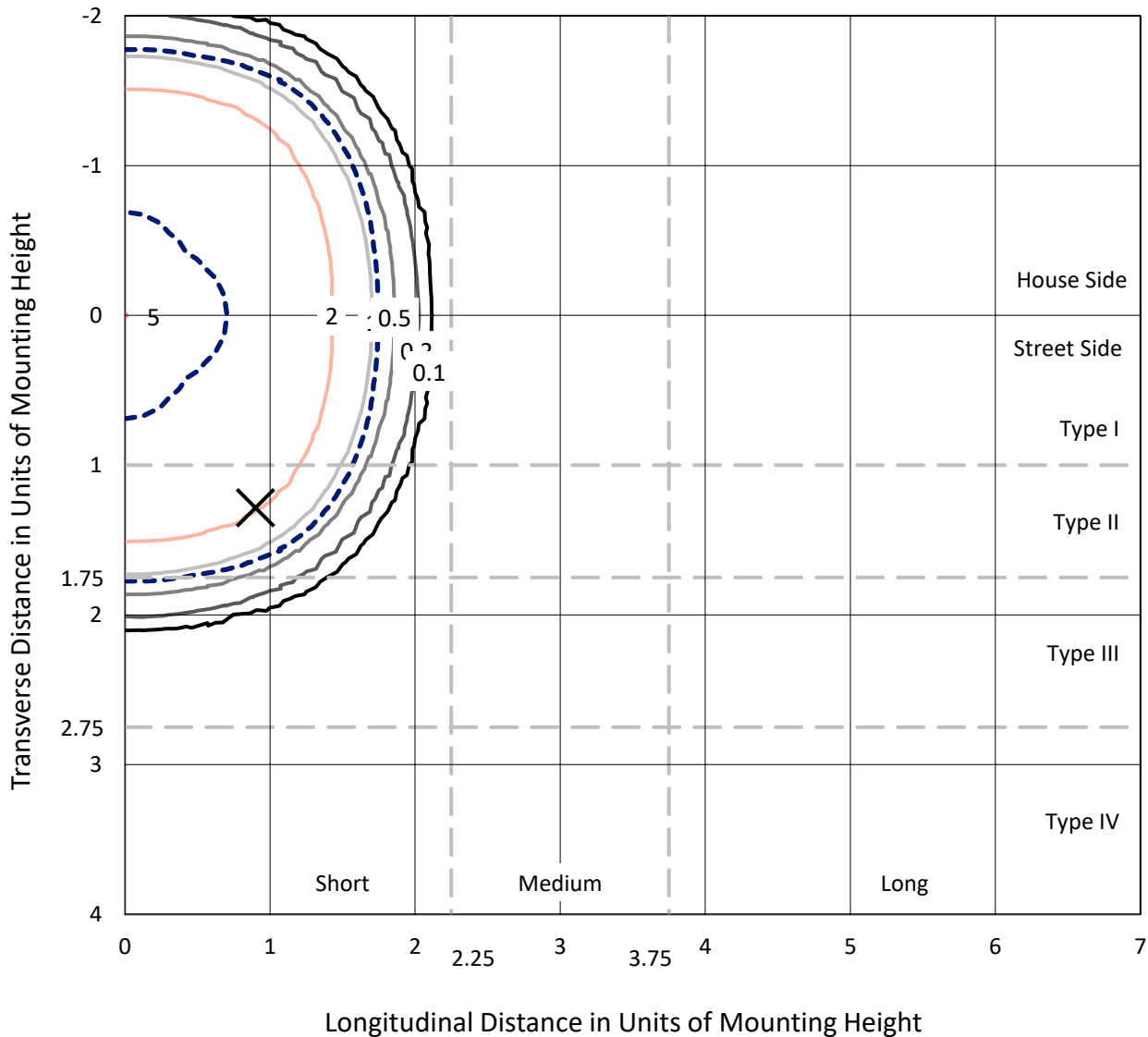
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

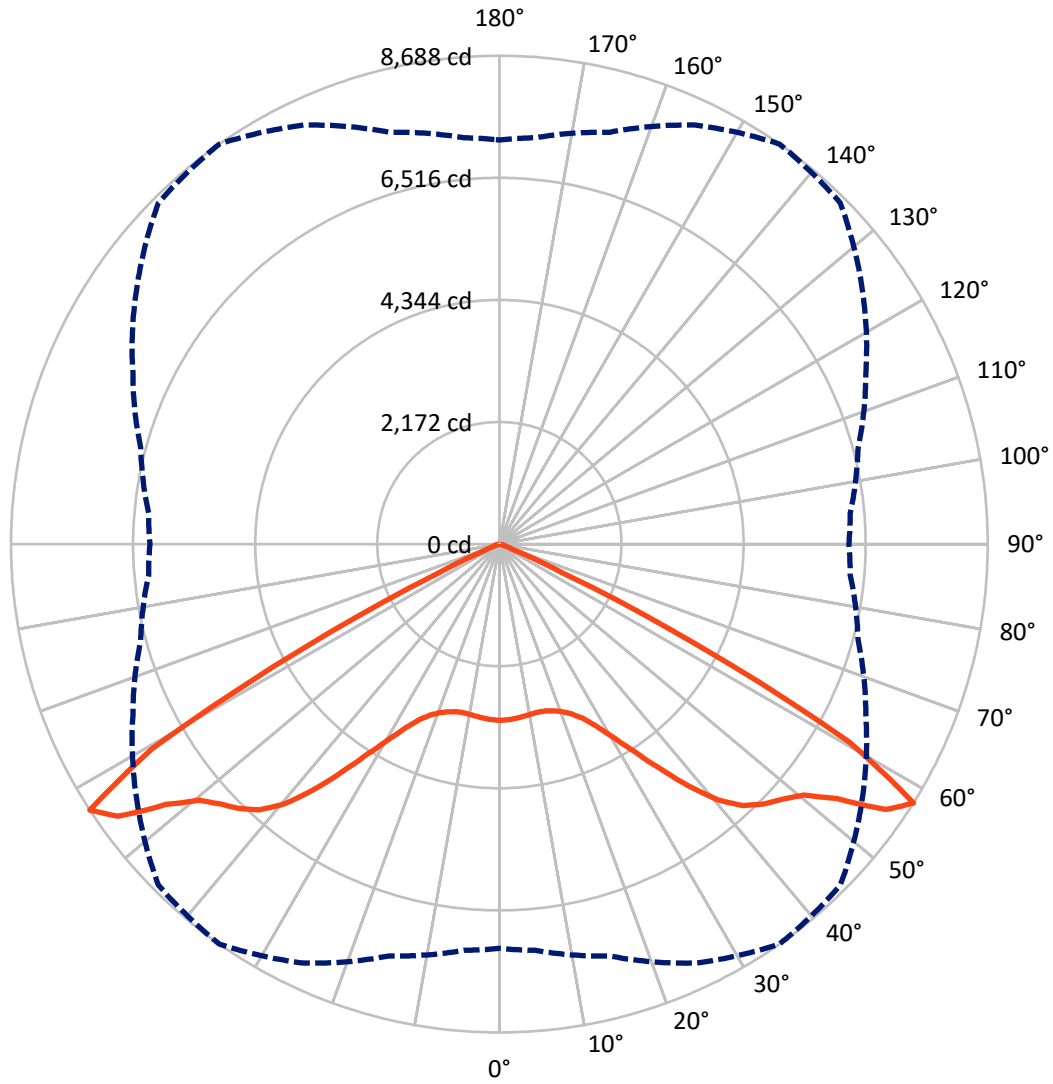
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	9432.1	0.0	9432.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9432.1	0.0	9432.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	18864.2	0.0	18864.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.5	1.6
10°-20°	869.2	4.6
20°-30°	1571.2	8.3
30°-40°	2931.1	15.5
40°-50°	4917.0	26.1
50°-60°	6493.4	34.4
60°-70°	1724.5	9.1
70°-80°	61.2	0.3
80°-90°	1.1	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°	18864.2	100.0
0°-180°	18864.2	100.0

Coefficient of Utilization



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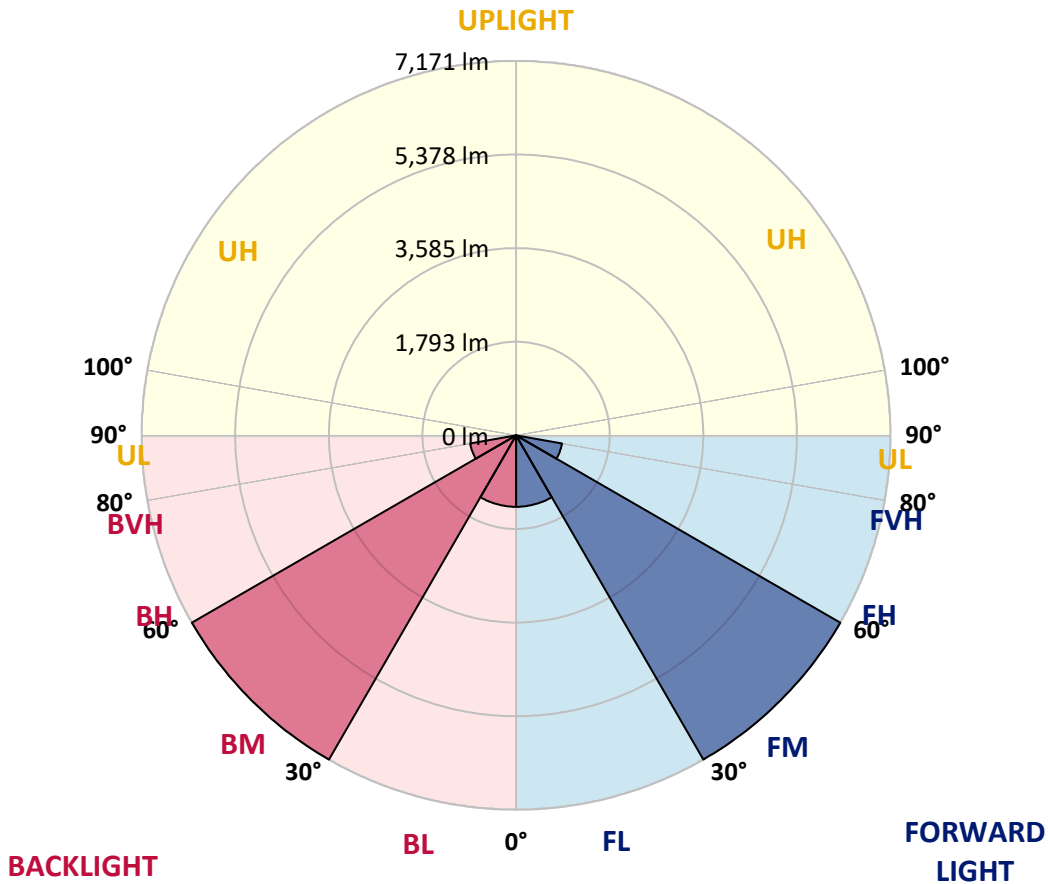
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1367.9	7.3			
FM (30°-60°)	7170.7	38.0			
FH (60°-80°)	892.9	4.7			G1/1800
FVH (80°-90°)	0.5	0.0			G0/10
BL (0°-30°)	1367.9	7.3	B3/2500		
BM (30°-60°)	7170.7	38.0	B4/8500		
BH (60°-80°)	892.9	4.7	B2/1000		G1/1800
BVH (80°-90°)	0.5	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°	3136.3	3136.3	3136.3	3136.3	3136.3	3136.3	3136.3	3136.3	3136.3	3136.3	3136.3
2.5°	3114.2	3112.0	3120.8	3127.5	3127.5	3143.0	3138.6	3134.1	3129.7	3123.1	3138.6
5°	3109.8	3107.6	3114.2	3118.6	3114.2	3127.5	3118.6	3109.8	3105.4	3096.5	3114.2
7.5°	3089.9	3092.1	3096.5	3100.9	3094.3	3105.4	3094.3	3081.0	3069.9	3061.1	3076.6
10°	3058.9	3061.1	3065.5	3074.4	3076.6	3092.1	3076.6	3052.2	3036.7	3023.5	3039.0
12.5°	3043.4	3045.6	3052.2	3063.3	3065.5	3085.4	3065.5	3030.1	3008.0	2992.5	3008.0
15°	3047.8	3052.2	3061.1	3074.4	3078.8	3098.7	3072.2	3025.7	2994.7	2974.8	2988.0
17.5°	3063.3	3067.7	3081.0	3103.1	3118.6	3138.6	3105.4	3045.6	3003.5	2974.8	2988.0
20°	3083.2	3089.9	3112.0	3147.4	3180.6	3216.0	3174.0	3092.1	3036.7	3001.3	3012.4
22.5°	3138.6	3145.2	3176.2	3222.7	3278.0	3322.3	3271.4	3167.3	3092.1	3045.6	3056.7
25°	3251.4	3258.1	3297.9	3357.7	3428.5	3486.1	3421.9	3291.3	3193.9	3140.8	3145.2
27.5°	3428.5	3435.1	3481.6	3565.7	3660.9	3742.8	3649.8	3497.1	3386.5	3324.5	3324.5
30°	3652.1	3660.9	3722.9	3835.8	3984.1	4092.5	3966.4	3780.4	3638.8	3554.7	3556.9
32.5°	3939.8	3930.9	4019.5	4174.4	4384.7	4528.6	4342.6	4116.9	3942.0	3824.7	3835.8
35°	4309.4	4307.2	4406.8	4617.1	4891.5	5064.2	4842.9	4550.7	4340.4	4220.9	4223.1
37.5°	4785.3	4783.1	4898.2	5126.2	5456.0	5599.8	5351.9	5055.3	4829.6	4714.5	4727.8
40°	5343.1	5329.8	5431.6	5650.7	5980.5	6073.5	5803.5	5564.4	5347.5	5274.5	5309.9
42.5°	5874.3	5845.5	5905.3	6104.5	6359.0	6372.3	6168.7	6004.9	5856.6	5799.0	5821.2
45°	6301.5	6279.3	6334.7	6449.8	6595.8	6529.4	6432.0	6381.1	6261.6	6199.6	6219.6
47.5°	6620.2	6620.2	6686.6	6757.4	6779.5	6657.8	6673.3	6673.3	6553.8	6456.4	6432.0
50°	6894.6	6914.6	7014.2	7087.2	7014.2	6859.2	6947.8	6930.1	6686.6	6491.8	6440.9
52.5°	7332.9	7352.8	7505.5	7605.1	7523.2	7370.5	7381.6	7160.2	6801.7	6571.5	6491.8
55°	7797.7	7846.4	8067.7	8333.3	8335.5	8178.4	7886.2	7494.5	7058.4	6808.3	6726.4
57.5°	7189.0	7255.4	7585.2	8224.9	8687.5	8579.0	7881.8	7193.4	6604.7	6263.8	6217.4
60°	4946.9	5062.0	5391.8	6266.0	7158.0	7200.1	6376.7	5604.2	4929.2	4508.6	4517.5
62.5°	2089.4	2206.7	2392.7	3112.0	3930.9	3981.8	3583.4	3030.1	2479.0	2175.7	2222.2
65°	491.4	524.6	579.9	861.0	1248.3	1305.9	1204.1	938.5	692.8	586.5	597.6
67.5°	214.7	219.1	208.1	221.3	274.5	281.1	272.2	239.0	225.8	230.2	230.2
70°	150.5	152.7	143.9	137.2	130.6	121.7	126.2	139.4	150.5	159.4	157.1
72.5°	93.0	95.2	97.4	97.4	90.7	81.9	86.3	95.2	97.4	99.6	97.4
75°	46.5	48.7	53.1	55.3	53.1	50.9	50.9	53.1	53.1	50.9	50.9
77.5°	8.9	11.1	15.5	17.7	17.7	17.7	17.7	17.7	19.9	17.7	17.7
80°	2.2	2.2	4.4	2.2	2.2	2.2	2.2	2.2	2.2	4.4	4.4
82.5°	2.2	2.2	2.2	2.2	0.0	0.0	2.2	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	2.2	2.2	2.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2	2.2
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)