

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: P638178

Luminaire Tested: GWS-SA4E-735-U-5MQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638178
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18441.6 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

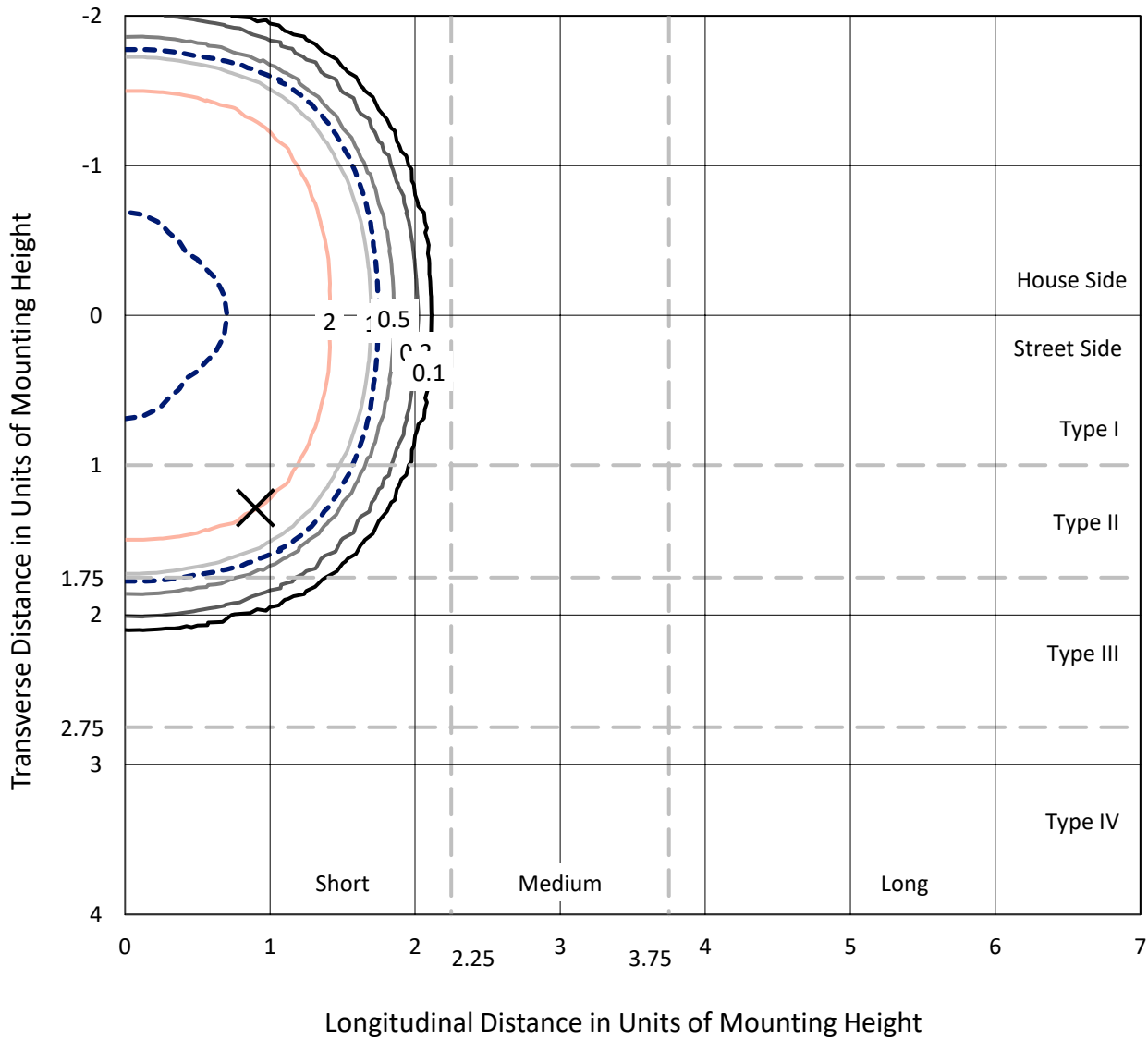
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

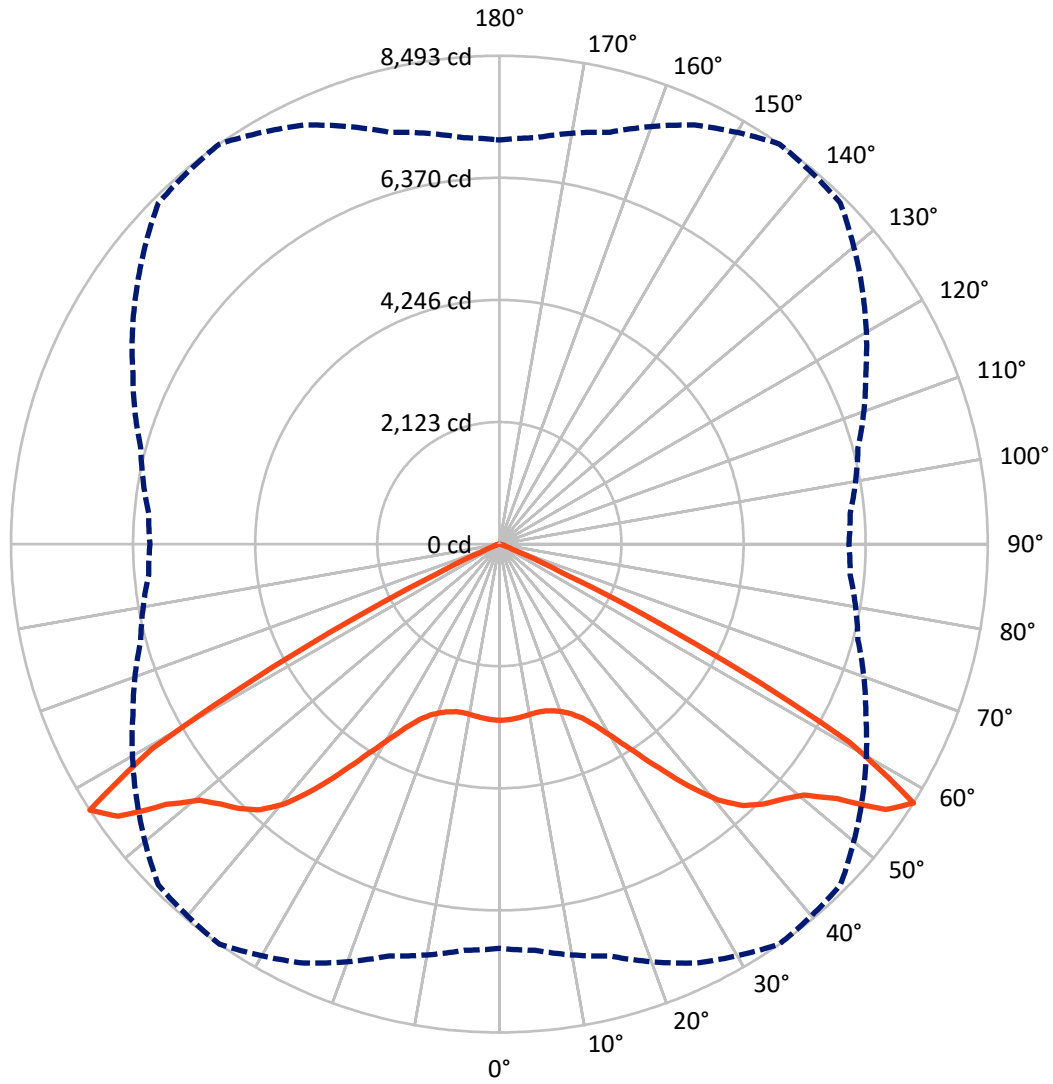
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	9220.8	0.0	9220.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9220.8	0.0	9220.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	18441.6	0.0	18441.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.9	1.6
10°-20°	849.7	4.6
20°-30°	1536.0	8.3
30°-40°	2865.5	15.5
40°-50°	4806.8	26.1
50°-60°	6347.9	34.4
60°-70°	1685.9	9.1
70°-80°	59.9	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°	18441.6	100.0
0°-180°	18441.6	100.0

Coefficient of Utilization



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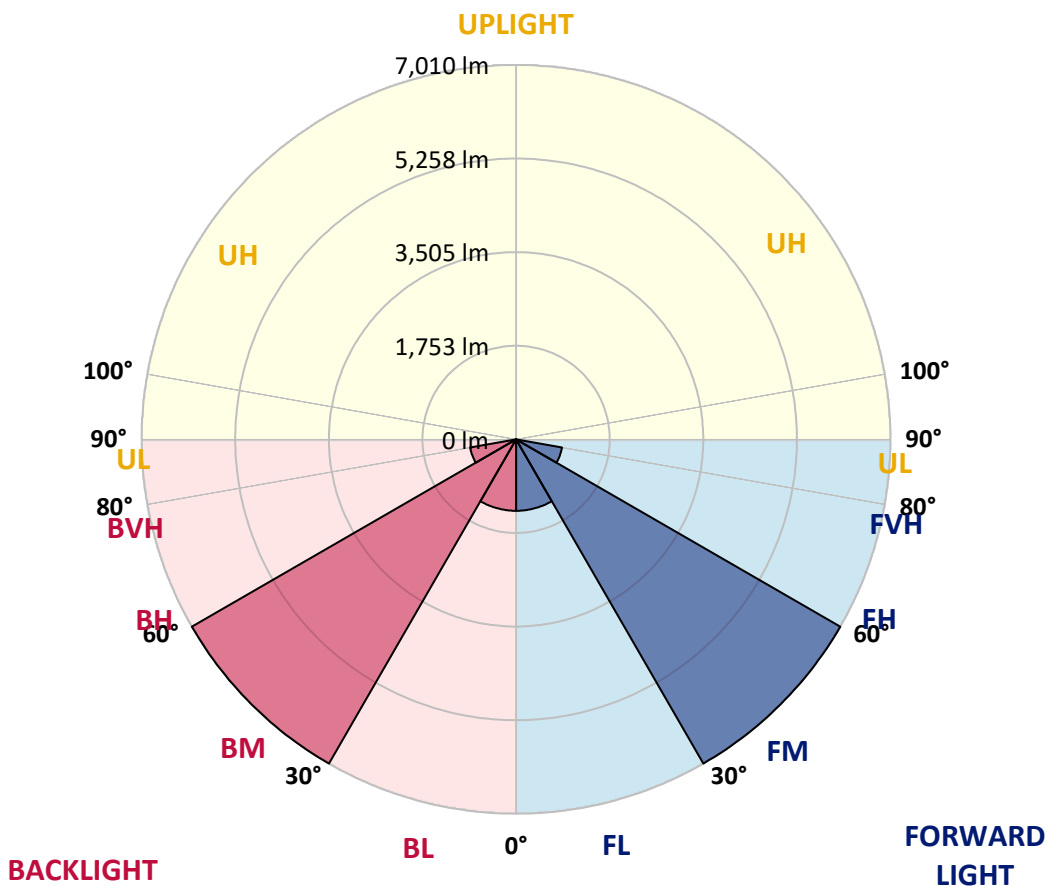
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1337.3	7.3			
FM (30°-60°)	7010.1	38.0			
FH (60°-80°)	872.9	4.7			G1/1800
FVH (80°-90°)	0.5	0.0			G0/10
BL (0°-30°)	1337.3	7.3	B3/2500		
BM (30°-60°)	7010.1	38.0	B4/8500		
BH (60°-80°)	872.9	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°	3066.1	3066.1	3066.1	3066.1	3066.1	3066.1	3066.1	3066.1	3066.1	3066.1	3066.1
2.5°	3044.4	3042.3	3050.9	3057.4	3057.4	3072.6	3068.2	3063.9	3059.6	3053.1	3068.2
5°	3040.1	3038.0	3044.4	3048.8	3044.4	3057.4	3048.8	3040.1	3035.8	3027.1	3044.4
7.5°	3020.6	3022.8	3027.1	3031.5	3025.0	3035.8	3025.0	3012.0	3001.2	2992.5	3007.7
10°	2990.3	2992.5	2996.8	3005.5	3007.7	3022.8	3007.7	2983.9	2968.7	2955.7	2970.9
12.5°	2975.2	2977.4	2983.9	2994.7	2996.8	3016.3	2996.8	2962.2	2940.6	2925.4	2940.6
15°	2979.5	2983.9	2992.5	3005.5	3009.8	3029.3	3003.3	2957.9	2927.6	2908.1	2921.1
17.5°	2994.7	2999.0	3012.0	3033.6	3048.8	3068.2	3035.8	2977.4	2936.3	2908.1	2921.1
20°	3014.2	3020.6	3042.3	3076.9	3109.4	3144.0	3102.9	3022.8	2968.7	2934.1	2944.9
22.5°	3068.2	3074.7	3105.0	3150.5	3204.6	3247.8	3198.1	3096.4	3022.8	2977.4	2988.2
25°	3178.6	3185.1	3224.0	3282.5	3351.7	3408.0	3345.2	3217.5	3122.3	3070.4	3074.7
27.5°	3351.7	3358.2	3403.6	3485.9	3578.9	3659.0	3568.1	3418.8	3310.6	3250.0	3250.0
30°	3570.2	3578.9	3639.5	3749.8	3894.8	4000.8	3877.5	3695.7	3557.3	3475.0	3477.2
32.5°	3851.5	3842.9	3929.4	4080.9	4286.5	4427.1	4245.3	4024.6	3853.7	3739.0	3749.8
35°	4212.9	4210.7	4308.1	4513.7	4782.0	4950.7	4734.4	4448.7	4243.2	4126.3	4128.5
37.5°	4678.1	4675.9	4788.5	5011.3	5333.7	5474.4	5232.0	4942.1	4721.4	4608.9	4621.8
40°	5223.4	5210.4	5309.9	5524.1	5846.5	5937.4	5673.4	5439.8	5227.7	5156.3	5190.9
42.5°	5742.7	5714.6	5773.0	5967.7	6216.6	6229.5	6030.5	5870.3	5725.4	5669.1	5690.8
45°	6160.3	6138.7	6192.8	6305.3	6448.1	6383.2	6288.0	6238.2	6121.3	6060.8	6080.2
47.5°	6471.9	6471.9	6536.8	6606.0	6627.7	6508.7	6523.8	6523.8	6407.0	6311.8	6288.0
50°	6740.2	6759.7	6857.0	6928.4	6857.0	6705.6	6792.1	6774.8	6536.8	6346.4	6296.6
52.5°	7168.6	7188.1	7337.4	7434.8	7354.7	7205.4	7216.2	6999.8	6649.3	6424.3	6346.4
55°	7623.0	7670.6	7887.0	8146.6	8148.8	7995.2	7709.6	7326.6	6900.3	6655.8	6575.7
57.5°	7028.0	7092.9	7415.3	8040.6	8492.9	8386.8	7705.2	7032.3	6456.7	6123.5	6078.1
60°	4836.1	4948.6	5271.0	6125.7	6997.7	7038.8	6233.9	5478.7	4818.7	4407.6	4416.3
62.5°	2042.6	2157.3	2339.1	3042.3	3842.9	3892.6	3503.2	2962.2	2423.4	2127.0	2172.4
65°	480.4	512.8	566.9	841.7	1220.4	1276.6	1177.1	917.4	677.3	573.4	584.2
67.5°	209.9	214.2	203.4	216.4	268.3	274.8	266.1	233.7	220.7	225.0	225.0
70°	147.1	149.3	140.6	134.2	127.7	119.0	123.3	136.3	147.1	155.8	153.6
72.5°	90.9	93.0	95.2	95.2	88.7	80.1	84.4	93.0	95.2	97.4	95.2
75°	45.4	47.6	51.9	54.1	51.9	49.8	49.8	51.9	51.9	49.8	49.8
77.5°	8.7	10.8	15.1	17.3	17.3	17.3	17.3	17.3	19.5	17.3	17.3
80°	2.2	2.2	4.3	2.2	2.2	2.2	2.2	2.2	2.2	4.3	4.3
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)