

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: P637690

Luminaire Tested: GWS-SA4D-735-U-5WQ-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637690
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-735-U-5WQ-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20398.6 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

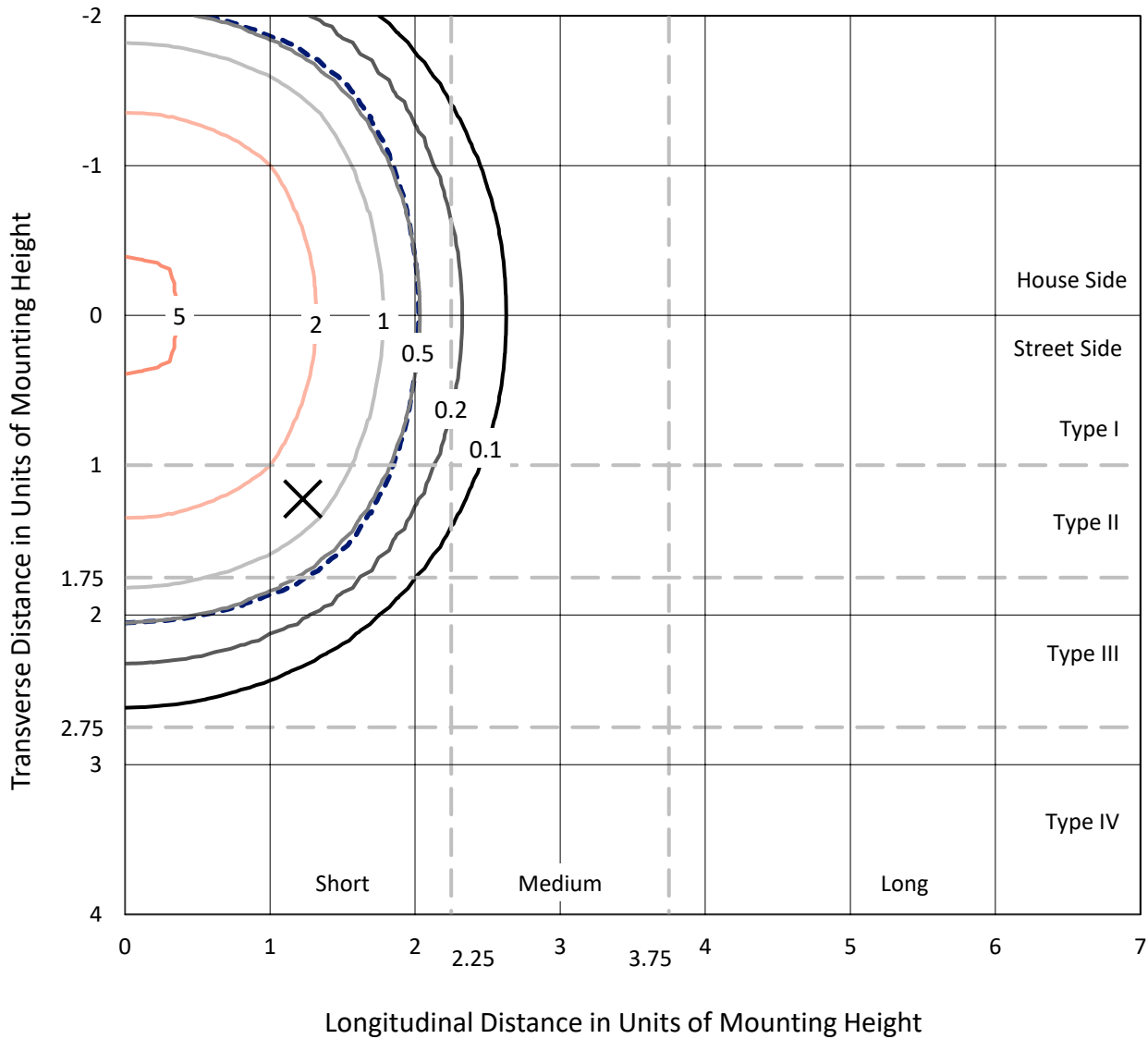
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

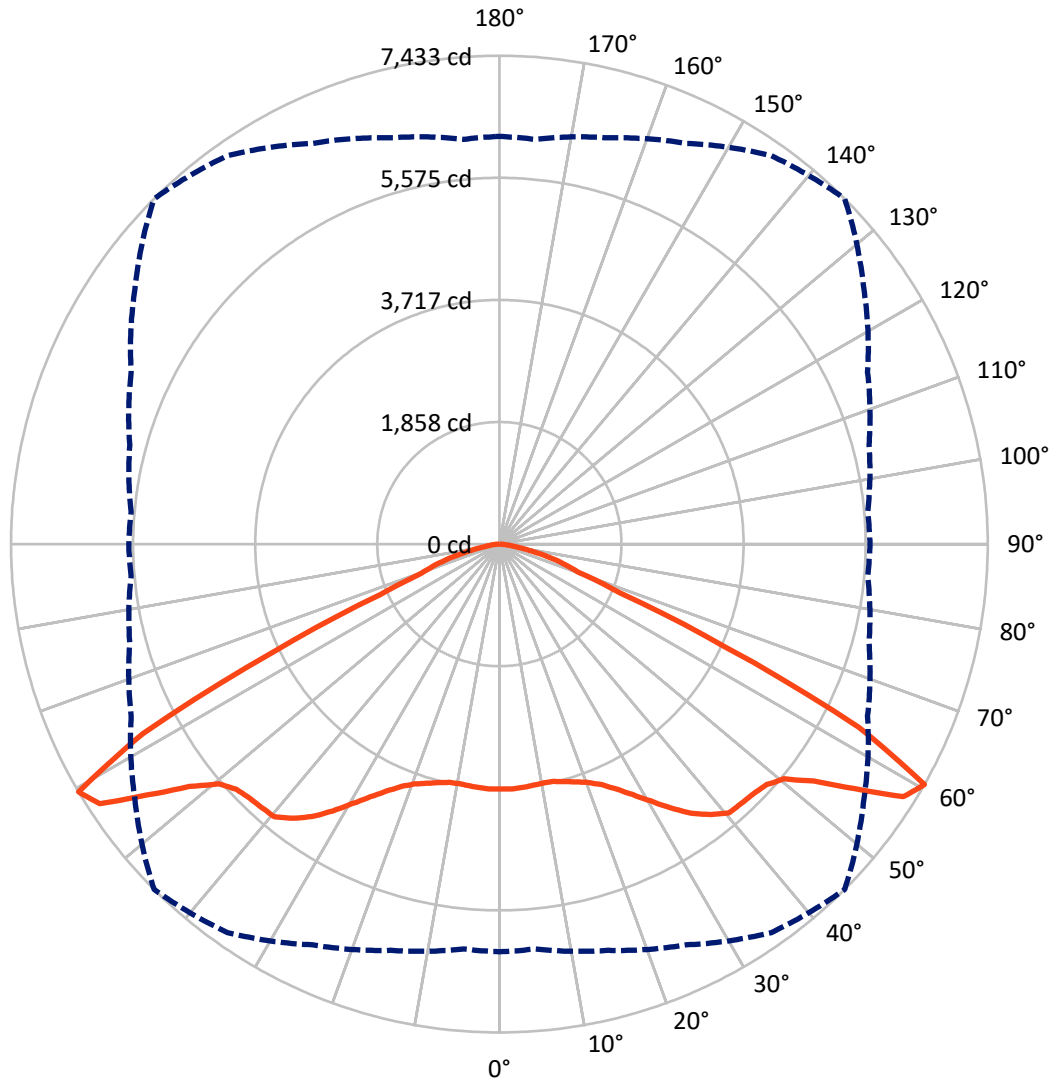
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10199.3	0.0	10199.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10199.3	0.0	10199.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	20398.6	0.0	20398.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.5	1.7
10°-20°	1063.4	5.2
20°-30°	1881.3	9.2
30°-40°	3028.9	14.8
40°-50°	4163.1	20.4
50°-60°	5547.8	27.2
60°-70°	3457.7	17.0
70°-80°	795.1	3.9
80°-90°	107.9	0.5
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°	20398.6	100.0
0°-180°	20398.6	100.0

Coefficient of Utilization



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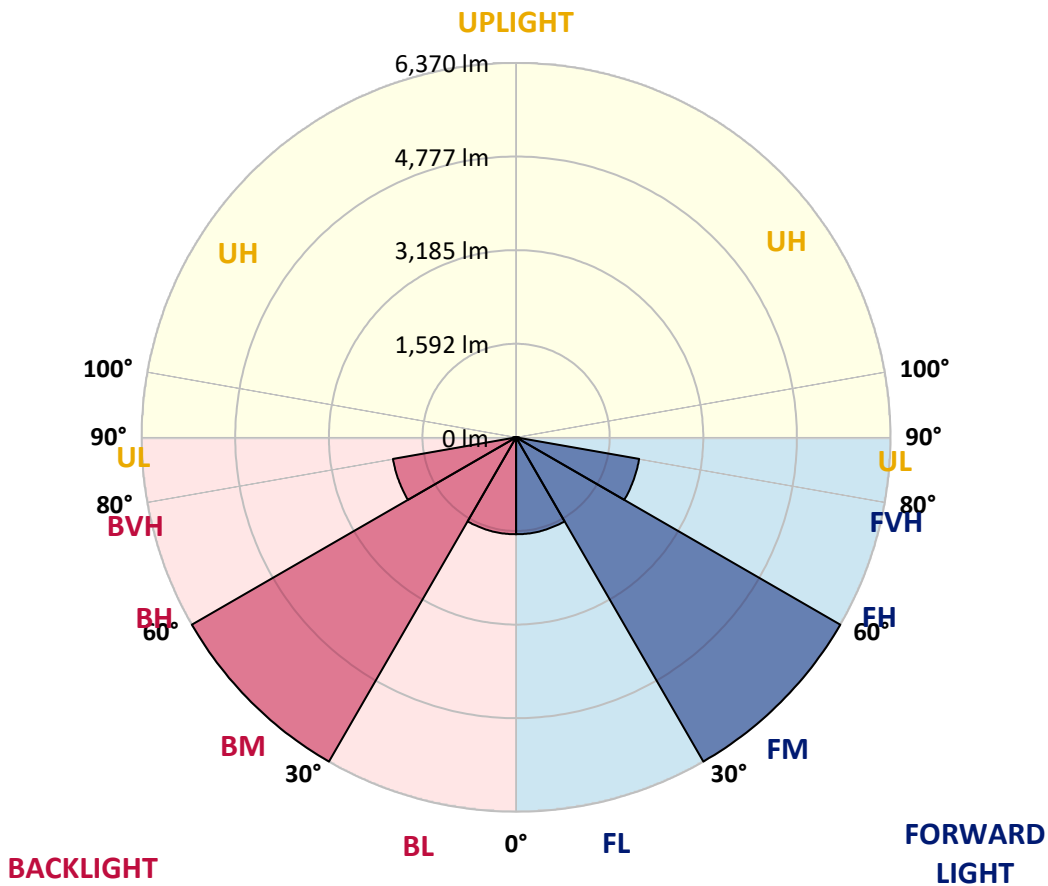
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1649.1	8.1			
FM (30°-60°)	6369.9	31.2			
FH (60°-80°)	2126.4	10.4			G2/5000
FVH (80°-90°)	53.9	0.3			G1/100
BL (0°-30°)	1649.1	8.1	B3/2500		
BM (30°-60°)	6369.9	31.2	B4/8500		
BH (60°-80°)	2126.4	10.4	B3/2500		G2/5000
BVH (80°-90°)	53.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3727.8	3727.8	3727.8	3727.8	3727.8	3727.8	3727.8	3727.8	3727.8	3727.8	3727.8
2.5°	3701.8	3705.3	3712.2	3717.4	3724.4	3731.3	3734.7	3727.8	3724.4	3710.5	3726.1
5°	3705.3	3708.8	3714.0	3714.0	3715.7	3720.9	3720.9	3712.2	3703.6	3688.0	3705.3
7.5°	3700.1	3703.6	3705.3	3703.6	3705.3	3707.0	3703.6	3693.2	3684.5	3670.7	3684.5
10°	3691.5	3694.9	3698.4	3694.9	3691.5	3696.6	3696.6	3689.7	3684.5	3670.7	3686.3
12.5°	3710.5	3715.7	3717.4	3708.8	3705.3	3707.0	3707.0	3700.1	3700.1	3688.0	3705.3
15°	3755.5	3759.0	3753.8	3743.4	3745.1	3750.3	3738.2	3720.9	3717.4	3712.2	3726.1
17.5°	3790.1	3793.6	3788.4	3781.5	3793.6	3805.7	3783.2	3750.3	3739.9	3736.5	3752.1
20°	3828.2	3833.4	3826.5	3835.2	3859.4	3873.3	3845.6	3800.5	3779.8	3774.6	3793.6
22.5°	3890.6	3897.5	3897.5	3916.5	3952.9	3975.4	3940.8	3880.2	3849.0	3840.4	3859.4
25°	3989.3	3994.5	3999.7	4037.7	4096.6	4127.8	4072.4	3989.3	3946.0	3932.1	3942.5
27.5°	4126.0	4134.7	4143.4	4198.8	4271.5	4316.5	4236.9	4133.0	4079.3	4051.6	4072.4
30°	4288.8	4300.9	4321.7	4384.0	4486.2	4536.4	4434.2	4307.9	4247.3	4217.8	4245.5
32.5°	4510.4	4512.2	4527.7	4597.0	4732.1	4789.2	4661.1	4520.8	4458.5	4423.9	4439.4
35°	4773.6	4775.3	4751.1	4822.1	4967.5	5031.6	4881.0	4739.0	4687.0	4676.7	4716.5
37.5°	5043.7	5028.1	5003.9	5035.1	5182.2	5223.8	5064.5	4943.3	4920.8	4939.8	4998.7
40°	5235.9	5209.9	5161.5	5184.0	5332.9	5381.4	5211.7	5097.4	5090.5	5137.2	5208.2
42.5°	5360.6	5332.9	5275.7	5275.7	5377.9	5398.7	5267.1	5206.5	5222.1	5275.7	5343.3
45°	5421.2	5405.6	5372.7	5355.4	5412.5	5421.2	5320.8	5296.5	5325.9	5351.9	5403.9
47.5°	5467.9	5467.9	5457.5	5440.2	5466.2	5471.4	5396.9	5390.0	5428.1	5428.1	5462.7
50°	5551.0	5559.7	5573.5	5570.1	5597.8	5615.1	5559.7	5549.3	5564.9	5514.7	5532.0
52.5°	5769.2	5791.7	5831.5	5862.7	5933.7	5987.4	5888.7	5805.6	5724.2	5613.4	5616.8
55°	6160.5	6170.9	6248.8	6340.6	6460.0	6569.1	6366.5	6108.6	5932.0	5802.1	5803.8
57.5°	6491.2	6506.8	6621.1	6813.3	7081.6	7251.3	6802.9	6371.7	6122.4	5963.1	5968.3
60°	6205.5	6184.7	6401.2	6730.2	7216.7	7433.1	6771.7	6183.0	5824.6	5627.2	5641.1
62.5°	4801.3	4761.5	5002.2	5346.7	5930.2	6146.7	5537.2	4972.7	4633.4	4479.3	4456.8
65°	2922.7	2886.3	3059.5	3270.7	3665.5	3802.3	3523.5	3224.0	2927.9	2834.4	2808.4
67.5°	1591.2	1586.0	1632.8	1736.6	1909.8	1973.9	1920.2	1778.2	1702.0	1636.2	1636.2
70°	1262.2	1251.8	1243.2	1244.9	1260.5	1269.2	1270.9	1264.0	1272.6	1274.3	1267.4
72.5°	1045.8	1042.3	1025.0	1026.8	1019.8	1016.4	1028.5	1035.4	1049.3	1051.0	1051.0
75°	758.4	749.7	758.4	760.1	753.2	753.2	761.8	760.1	767.0	770.5	751.4
77.5°	431.1	431.1	443.3	457.1	467.5	467.5	476.1	476.1	484.8	483.1	479.6
80°	237.2	237.2	244.1	252.8	263.2	273.6	282.2	284.0	289.2	287.4	282.2
82.5°	135.1	136.8	140.2	145.4	155.8	164.5	173.1	174.9	180.1	180.1	174.9
85°	64.1	62.3	64.1	67.5	72.7	79.6	88.3	93.5	97.0	97.0	93.5
87.5°	12.1	13.9	12.1	13.9	15.6	20.8	24.2	27.7	32.9	34.6	31.2
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)