

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: P638674

Luminaire Tested: GWS-SA4F-735-U-5MQ-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638674
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-735-U-5MQ-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM 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: 29383.2 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 225.3
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

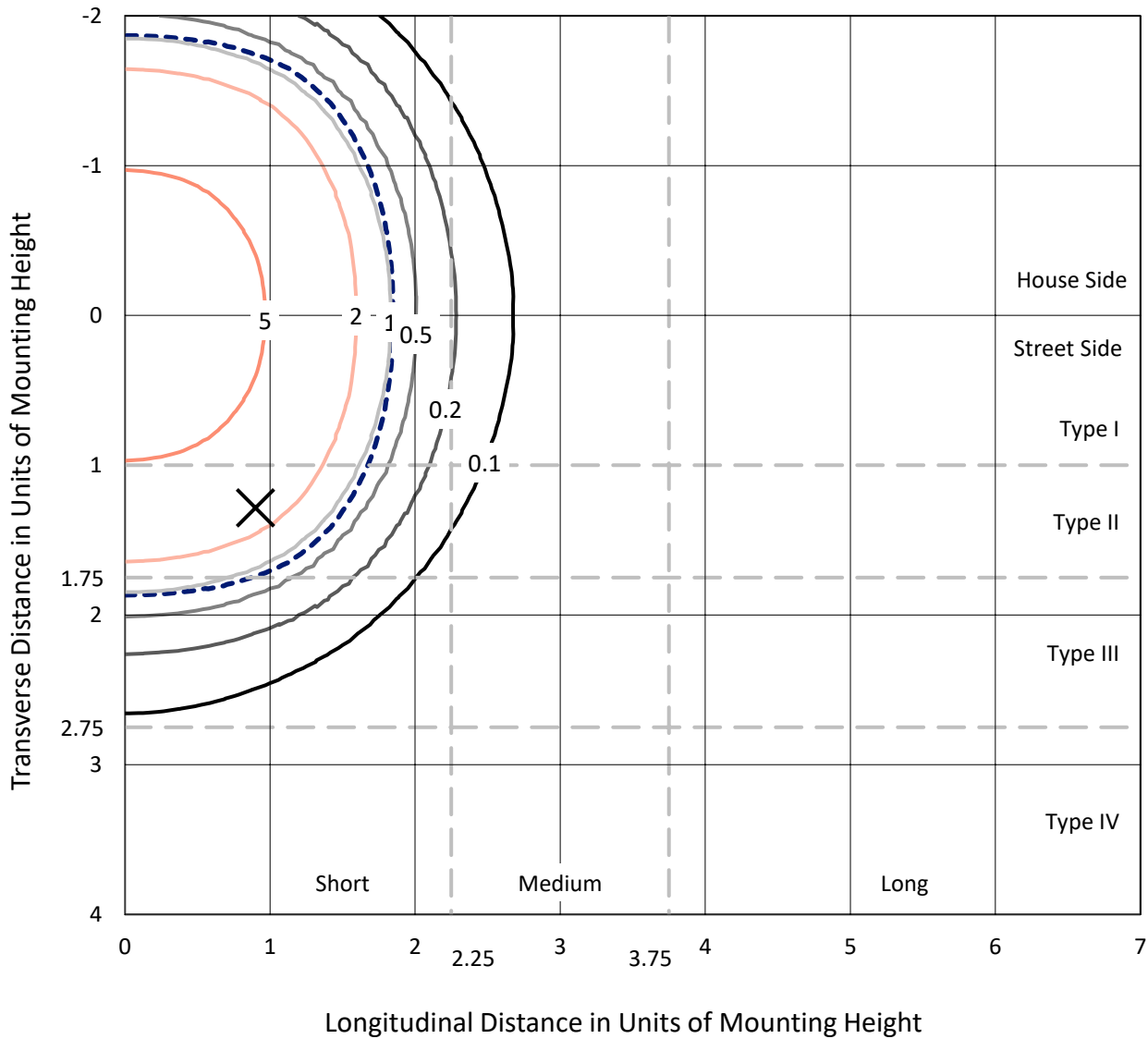


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Iso-Footcandle Lines of Horizontal Illumination

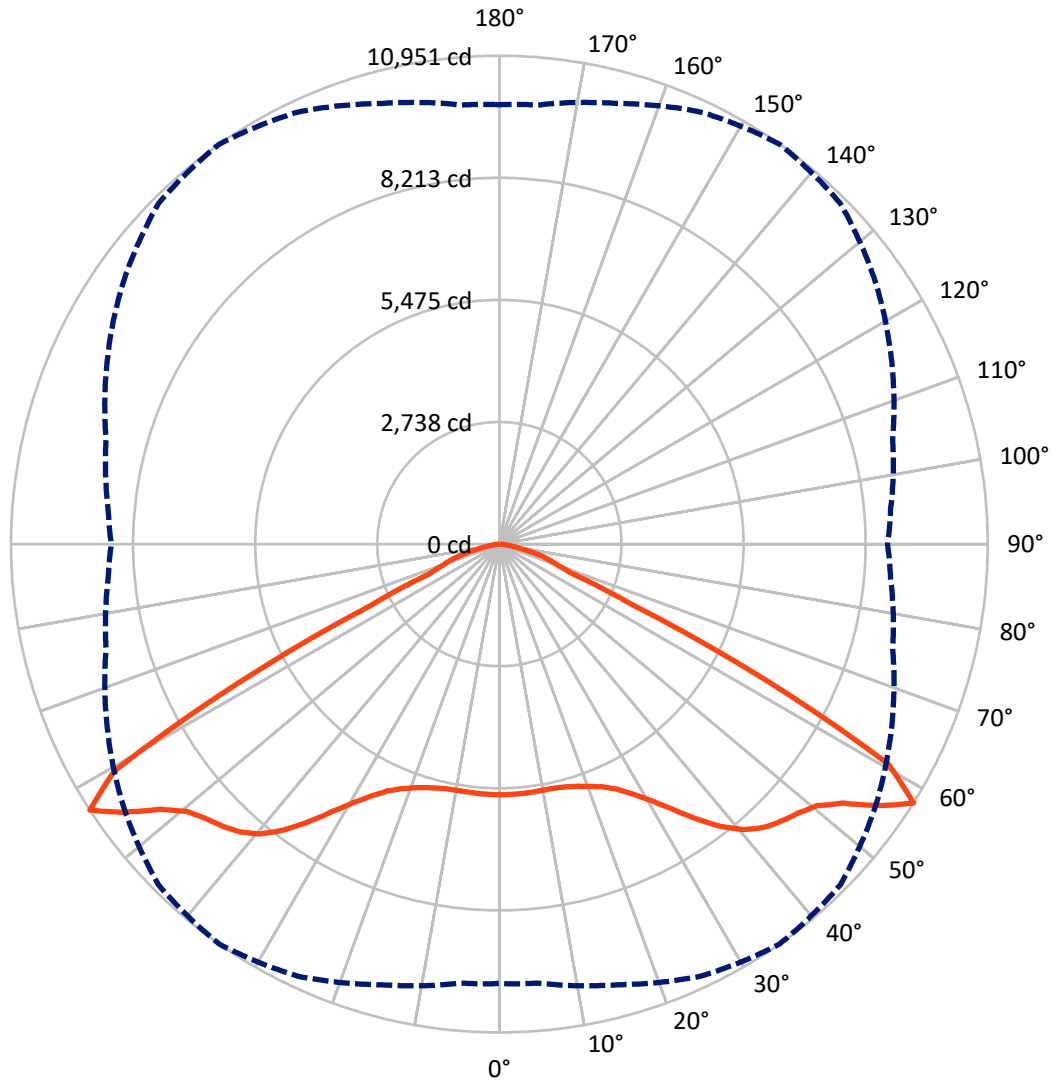
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	14691.6	0.0	14691.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14691.6	0.0	14691.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	29383.2	0.0	29383.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.8	1.8
10°-20°	1595.7	5.4
20°-30°	2784.2	9.5
30°-40°	4565.5	15.5
40°-50°	6724.0	22.9
50°-60°	8581.0	29.2
60°-70°	3616.4	12.3
70°-80°	863.9	2.9
80°-90°	117.6	0.4
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°	29383.2	100.0
0°-180°	29383.2	100.0

Coefficient of Utilization



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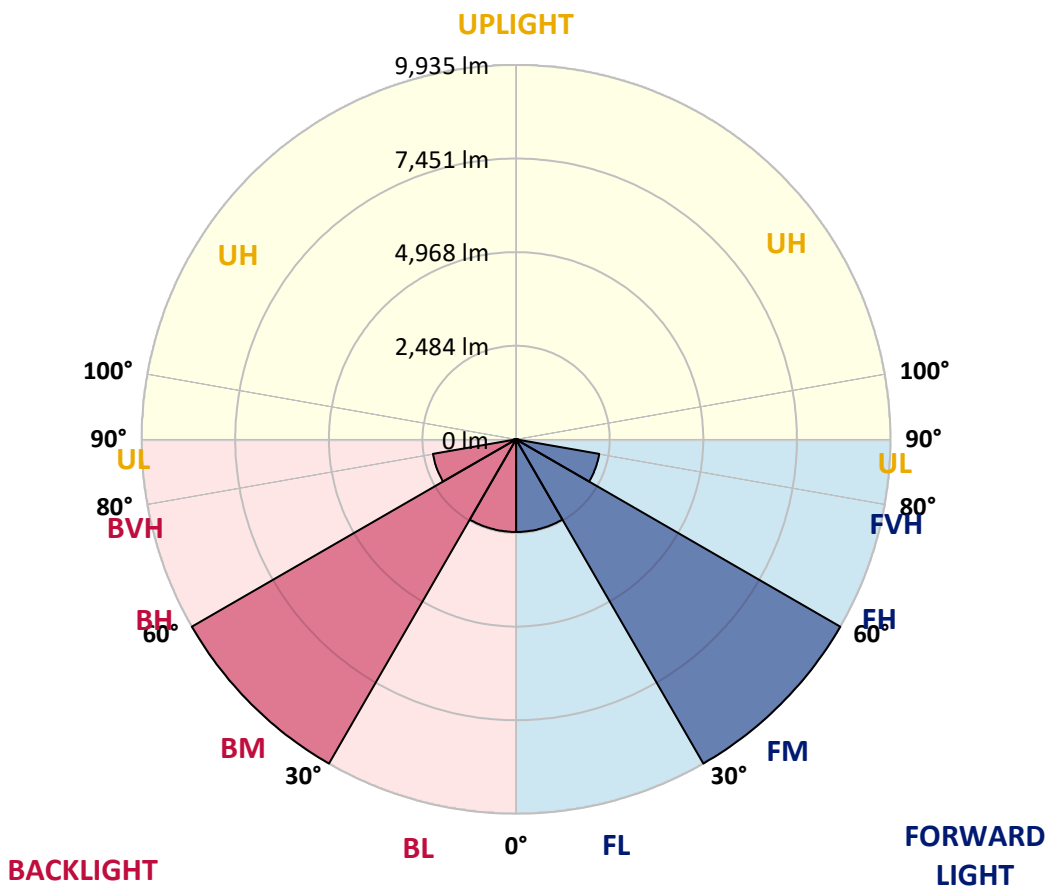
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2457.4	8.4			
FM (30°-60°)	9935.3	33.8			
FH (60°-80°)	2240.1	7.6			G2/5000
FVH (80°-90°)	58.8	0.2			G1/100
BL (0°-30°)	2457.4	8.4	B3/2500		
BM (30°-60°)	9935.3	33.8	B5		
BH (60°-80°)	2240.1	7.6	B3/2500		G2/5000
BVH (80°-90°)	58.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5622.1	5622.1	5622.1	5622.1	5622.1	5622.1	5622.1	5622.1	5622.1	5622.1	5622.1
2.5°	5588.5	5588.5	5600.5	5612.5	5617.3	5639.0	5636.6	5629.4	5624.5	5610.1	5629.4
5°	5600.5	5600.5	5610.1	5617.3	5614.9	5631.8	5624.5	5612.5	5605.3	5590.9	5612.5
7.5°	5598.1	5598.1	5605.3	5612.5	5607.7	5622.1	5610.1	5593.3	5581.2	5566.8	5586.1
10°	5566.8	5571.6	5578.8	5595.7	5602.9	5624.5	5607.7	5581.2	5562.0	5545.2	5564.4
12.5°	5562.0	5566.8	5576.4	5598.1	5610.1	5641.4	5619.7	5576.4	5547.6	5525.9	5545.2
15°	5583.6	5588.5	5602.9	5629.4	5648.6	5682.3	5651.0	5590.9	5550.0	5521.1	5537.9
17.5°	5610.1	5617.3	5639.0	5677.5	5708.7	5744.8	5706.3	5634.2	5576.4	5537.9	5552.4
20°	5639.0	5648.6	5682.3	5740.0	5797.8	5843.5	5795.4	5699.1	5629.4	5578.8	5593.3
22.5°	5689.5	5701.5	5744.8	5826.6	5913.2	5980.6	5920.4	5790.5	5699.1	5634.2	5646.2
25°	5792.9	5807.4	5862.7	5961.3	6084.0	6165.8	6081.6	5934.9	5807.4	5728.0	5740.0
27.5°	5975.8	5983.0	6055.2	6185.1	6336.6	6430.5	6329.4	6156.2	6014.3	5922.9	5932.5
30°	6216.3	6238.0	6310.2	6481.0	6661.4	6786.5	6654.2	6449.7	6286.1	6175.5	6185.1
32.5°	6509.8	6524.3	6632.5	6810.6	7070.4	7214.7	7034.3	6791.3	6594.0	6459.3	6468.9
35°	6894.8	6906.8	7010.2	7236.4	7551.5	7686.2	7479.3	7200.3	6971.7	6844.2	6880.3
37.5°	7354.2	7375.9	7450.5	7674.2	8025.4	8157.8	7919.6	7659.8	7421.6	7303.7	7330.2
40°	7847.4	7845.0	7905.2	8102.4	8422.4	8504.2	8290.1	8083.2	7878.7	7801.7	7845.0
42.5°	8270.8	8258.8	8302.1	8465.7	8687.0	8694.2	8552.3	8436.8	8292.5	8239.5	8280.4
45°	8566.7	8571.5	8636.5	8749.6	8862.6	8802.5	8759.2	8739.9	8626.9	8554.7	8561.9
47.5°	8800.1	8819.3	8922.8	8999.8	9014.2	8913.1	8973.3	9002.2	8908.3	8797.7	8766.4
50°	9007.0	9038.2	9173.0	9254.8	9223.5	9096.0	9213.9	9257.2	9050.3	8838.6	8776.0
52.5°	9382.3	9418.3	9581.9	9687.8	9651.7	9524.2	9634.9	9480.9	9132.1	8872.3	8792.9
55°	9981.3	9998.1	10197.8	10371.0	10354.2	10197.8	10108.8	9767.2	9343.8	9074.3	8999.8
57.5°	9853.8	9882.6	10229.1	10691.0	10950.8	10808.8	10286.8	9704.6	9129.7	8804.9	8703.9
60°	7753.6	7823.4	8254.0	9067.1	10019.8	10017.4	9047.9	8143.3	7450.5	7019.9	6976.6
62.5°	4527.5	4575.7	4967.8	5790.5	6644.6	6697.5	6016.7	5396.0	4789.8	4498.7	4359.1
65°	2143.5	2141.1	2297.5	2667.9	3245.3	3291.0	3086.5	2747.3	2388.9	2290.2	2263.8
67.5°	1583.0	1583.0	1570.9	1597.4	1708.1	1732.1	1708.1	1652.7	1619.0	1640.7	1626.3
70°	1373.7	1376.1	1361.6	1354.4	1354.4	1347.2	1356.8	1378.5	1392.9	1421.8	1407.3
72.5°	1113.8	1116.2	1116.2	1118.7	1121.1	1111.4	1125.9	1137.9	1140.3	1149.9	1140.3
75°	791.5	796.3	810.7	822.8	832.4	832.4	837.2	839.6	830.0	842.0	822.8
77.5°	435.4	440.2	466.7	488.4	510.0	512.4	519.6	524.4	519.6	529.3	514.8
80°	240.6	245.4	257.4	267.0	283.9	298.3	307.9	312.7	312.7	320.0	312.7
82.5°	137.1	141.9	149.2	154.0	168.4	180.4	190.1	197.3	197.3	199.7	194.9
85°	65.0	65.0	69.8	74.6	81.8	86.6	98.6	105.9	105.9	110.7	105.9
87.5°	9.6	12.0	14.4	14.4	19.2	24.1	28.9	31.3	36.1	38.5	38.5
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)