

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: P638680

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638680
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-SA4F-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: 28341.5 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: B5 - U0 - G2

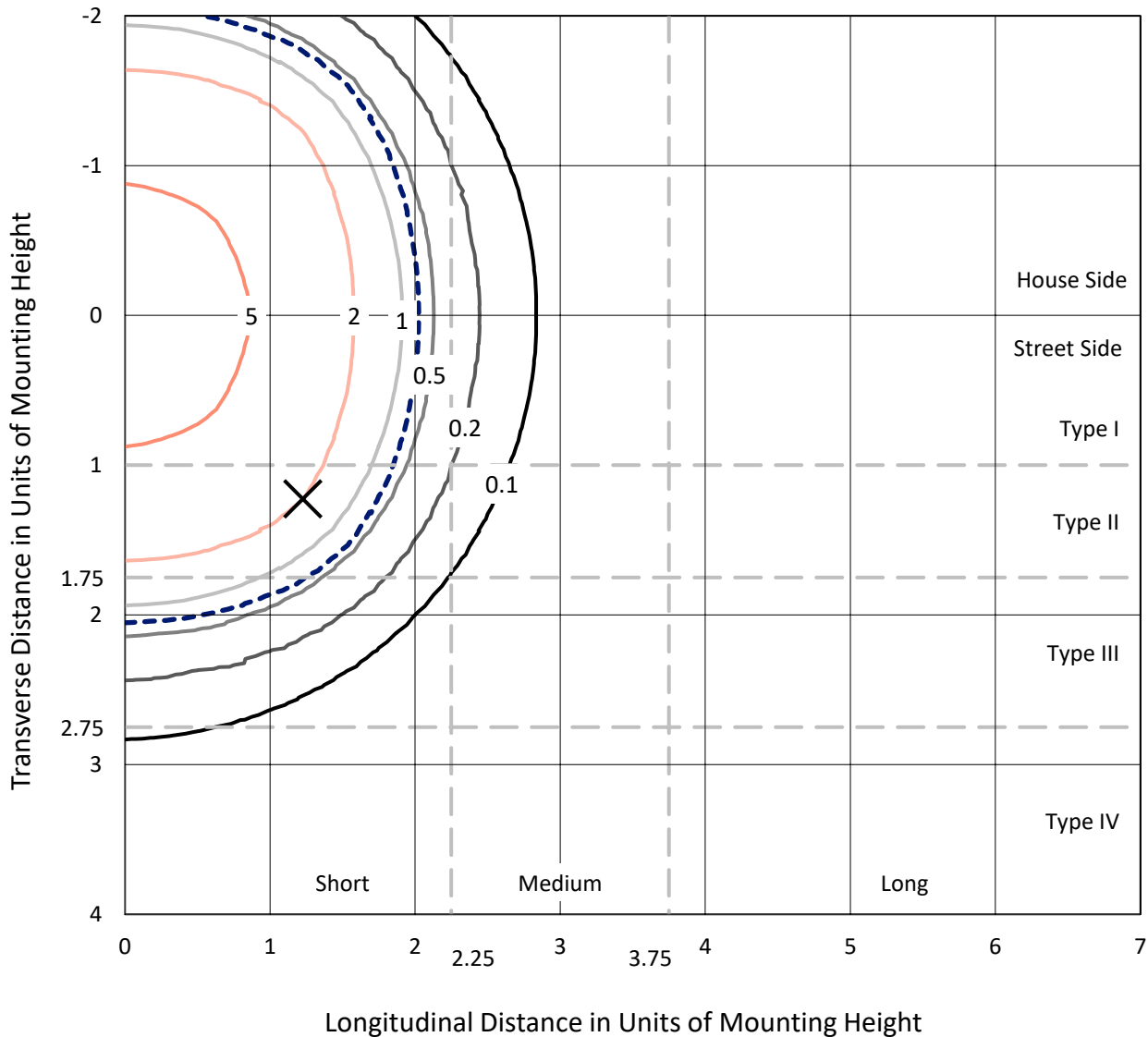
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

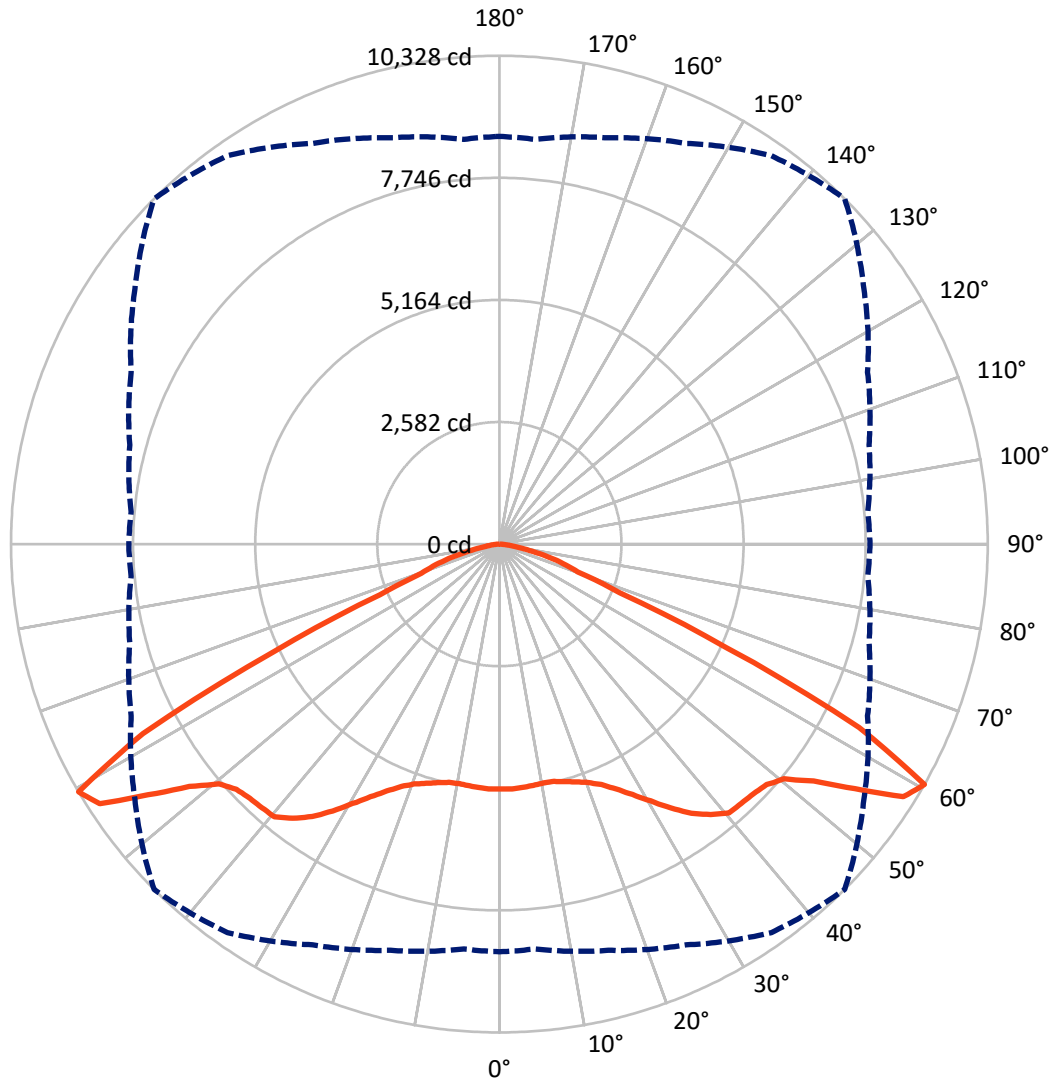
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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	14170.7	0.0	14170.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14170.7	0.0	14170.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	28341.5	0.0	28341.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.2	1.7
10°-20°	1477.4	5.2
20°-30°	2613.8	9.2
30°-40°	4208.3	14.8
40°-50°	5784.2	20.4
50°-60°	7708.0	27.2
60°-70°	4804.0	17.0
70°-80°	1104.7	3.9
80°-90°	149.9	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°	28341.5	100.0
0°-180°	28341.5	100.0

Coefficient of Utilization



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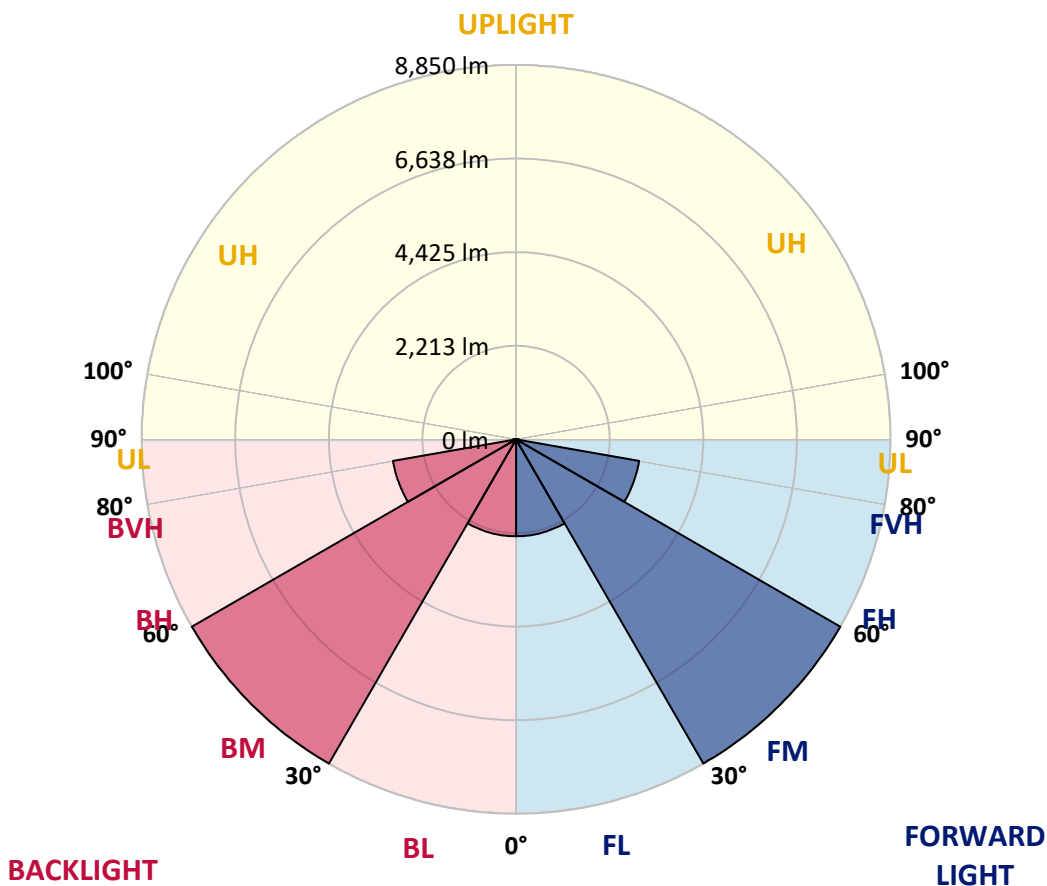
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2291.2	8.1			
FM (30°-60°)	8850.3	31.2			
FH (60°-80°)	2954.4	10.4			G2/5000
FVH (80°-90°)	74.9	0.3			G1/100
BL (0°-30°)	2291.2	8.1	B3/2500		
BM (30°-60°)	8850.3	31.2	B5		
BH (60°-80°)	2954.4	10.4	B4/5000		G2/5000
BVH (80°-90°)	74.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	5179.4	5179.4	5179.4	5179.4	5179.4	5179.4	5179.4	5179.4	5179.4	5179.4	5179.4
2.5°	5143.3	5148.1	5157.7	5164.9	5174.6	5184.2	5189.0	5179.4	5174.6	5155.3	5177.0
5°	5148.1	5152.9	5160.1	5160.1	5162.5	5169.7	5169.7	5157.7	5145.7	5124.0	5148.1
7.5°	5140.9	5145.7	5148.1	5145.7	5148.1	5150.5	5145.7	5131.3	5119.2	5100.0	5119.2
10°	5128.8	5133.7	5138.5	5133.7	5128.8	5136.1	5136.1	5126.4	5119.2	5100.0	5121.6
12.5°	5155.3	5162.5	5164.9	5152.9	5148.1	5150.5	5150.5	5140.9	5140.9	5124.0	5148.1
15°	5217.9	5222.7	5215.5	5201.0	5203.4	5210.6	5193.8	5169.7	5164.9	5157.7	5177.0
17.5°	5266.0	5270.8	5263.6	5253.9	5270.8	5287.6	5256.3	5210.6	5196.2	5191.4	5213.0
20°	5318.9	5326.1	5316.5	5328.5	5362.2	5381.4	5343.0	5280.4	5251.5	5244.3	5270.8
22.5°	5405.5	5415.1	5415.1	5441.6	5492.1	5523.4	5475.3	5391.1	5347.8	5335.7	5362.2
25°	5542.6	5549.8	5557.1	5610.0	5691.8	5735.1	5658.1	5542.6	5482.5	5463.2	5477.7
27.5°	5732.7	5744.7	5756.7	5833.7	5934.7	5997.3	5886.6	5742.3	5667.7	5629.2	5658.1
30°	5958.8	5975.6	6004.5	6091.1	6233.0	6302.8	6160.9	5985.3	5901.1	5860.2	5898.7
32.5°	6266.7	6269.1	6290.8	6387.0	6574.6	6654.0	6476.0	6281.2	6194.6	6146.4	6168.1
35°	6632.4	6634.8	6601.1	6699.7	6901.8	6990.8	6781.5	6584.3	6512.1	6497.7	6553.0
37.5°	7007.7	6986.0	6952.3	6995.6	7200.1	7257.9	7036.5	6868.1	6836.9	6863.3	6945.1
40°	7274.7	7238.6	7171.2	7202.5	7409.4	7476.8	7241.0	7082.2	7072.6	7137.6	7236.2
42.5°	7447.9	7409.4	7330.0	7330.0	7472.0	7500.8	7318.0	7233.8	7255.4	7330.0	7423.8
45°	7532.1	7510.4	7464.7	7440.7	7520.1	7532.1	7392.6	7358.9	7399.8	7435.9	7508.0
47.5°	7597.0	7597.0	7582.6	7558.6	7594.6	7601.9	7498.4	7488.8	7541.7	7541.7	7589.8
50°	7712.5	7724.5	7743.8	7739.0	7777.5	7801.5	7724.5	7710.1	7731.8	7662.0	7686.1
52.5°	8015.6	8046.9	8102.2	8145.5	8244.2	8318.7	8181.6	8066.2	7953.1	7799.1	7803.9
55°	8559.3	8573.7	8682.0	8809.5	8975.5	9127.0	8845.6	8487.1	8241.8	8061.3	8063.7
57.5°	9018.8	9040.4	9199.2	9466.2	9839.1	10074.9	9451.8	8852.8	8506.4	8285.1	8292.3
60°	8621.9	8593.0	8893.7	9350.8	10026.8	10327.5	9408.5	8590.6	8092.6	7818.4	7837.6
62.5°	6670.9	6615.5	6949.9	7428.7	8239.4	8540.1	7693.3	6909.0	6437.5	6223.4	6192.1
65°	4060.7	4010.2	4250.8	4544.3	5092.8	5282.8	4895.5	4479.3	4068.0	3938.1	3902.0
67.5°	2210.8	2203.6	2268.5	2412.9	2653.4	2742.4	2667.9	2470.6	2364.8	2273.3	2273.3
70°	1753.7	1739.3	1727.3	1729.7	1751.3	1763.3	1765.7	1756.1	1768.2	1770.6	1760.9
72.5°	1453.0	1448.2	1424.1	1426.6	1416.9	1412.1	1429.0	1438.6	1457.8	1460.2	1460.2
75°	1053.7	1041.6	1053.7	1056.1	1046.5	1046.5	1058.5	1056.1	1065.7	1070.5	1044.1
77.5°	599.0	599.0	615.8	635.1	649.5	649.5	661.6	661.6	673.6	671.2	666.4
80°	329.6	329.6	339.2	351.2	365.7	380.1	392.1	394.5	401.7	399.3	392.1
82.5°	187.6	190.0	194.9	202.1	216.5	228.5	240.6	243.0	250.2	250.2	243.0
85°	89.0	86.6	89.0	93.8	101.0	110.7	122.7	129.9	134.7	134.7	129.9
87.5°	16.8	19.2	16.8	19.2	21.7	28.9	33.7	38.5	45.7	48.1	43.3
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)