

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: P638735

Luminaire Tested: GWS-SA4F-740-U-5WQ-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638735
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28735.3 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

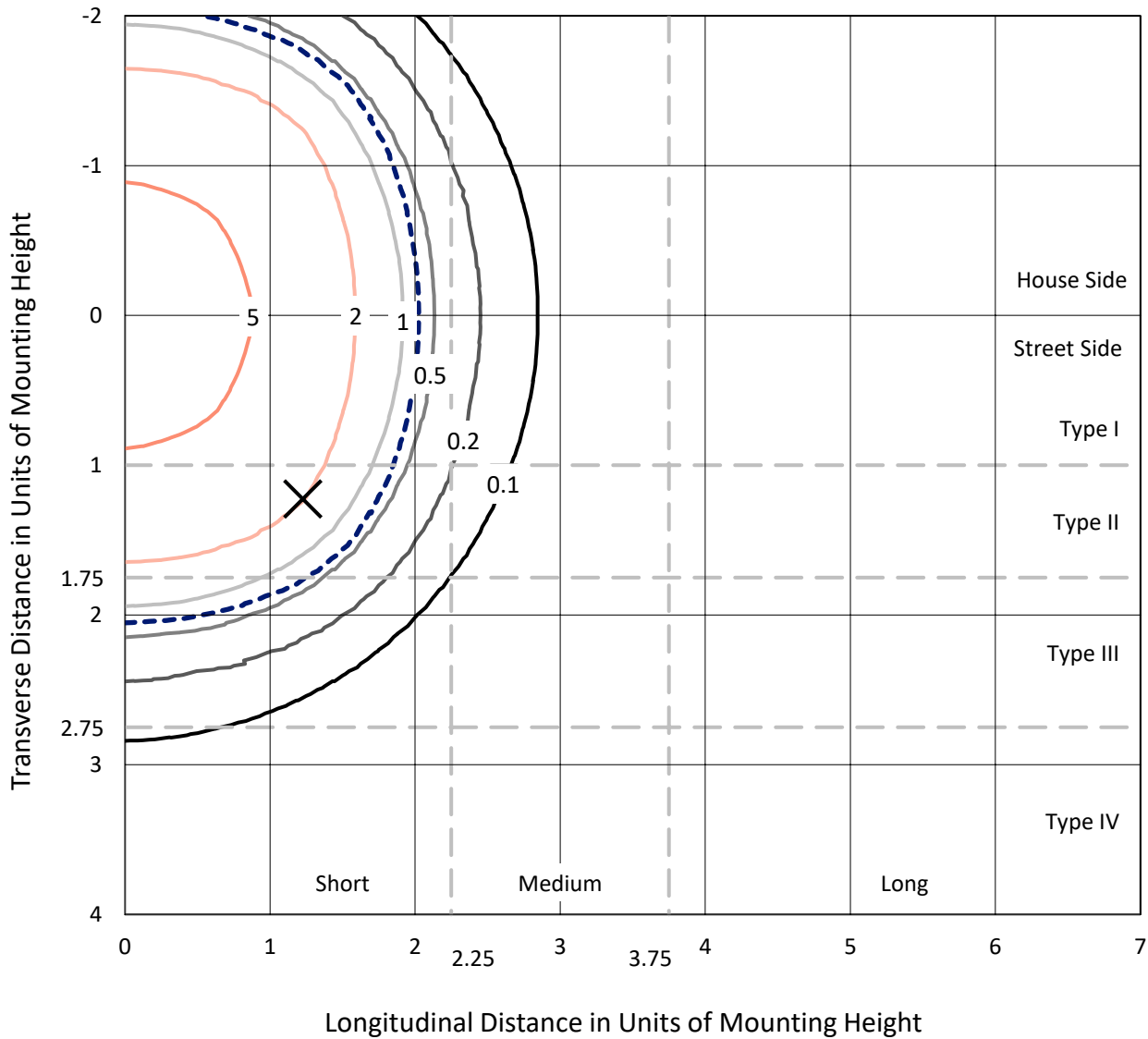
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

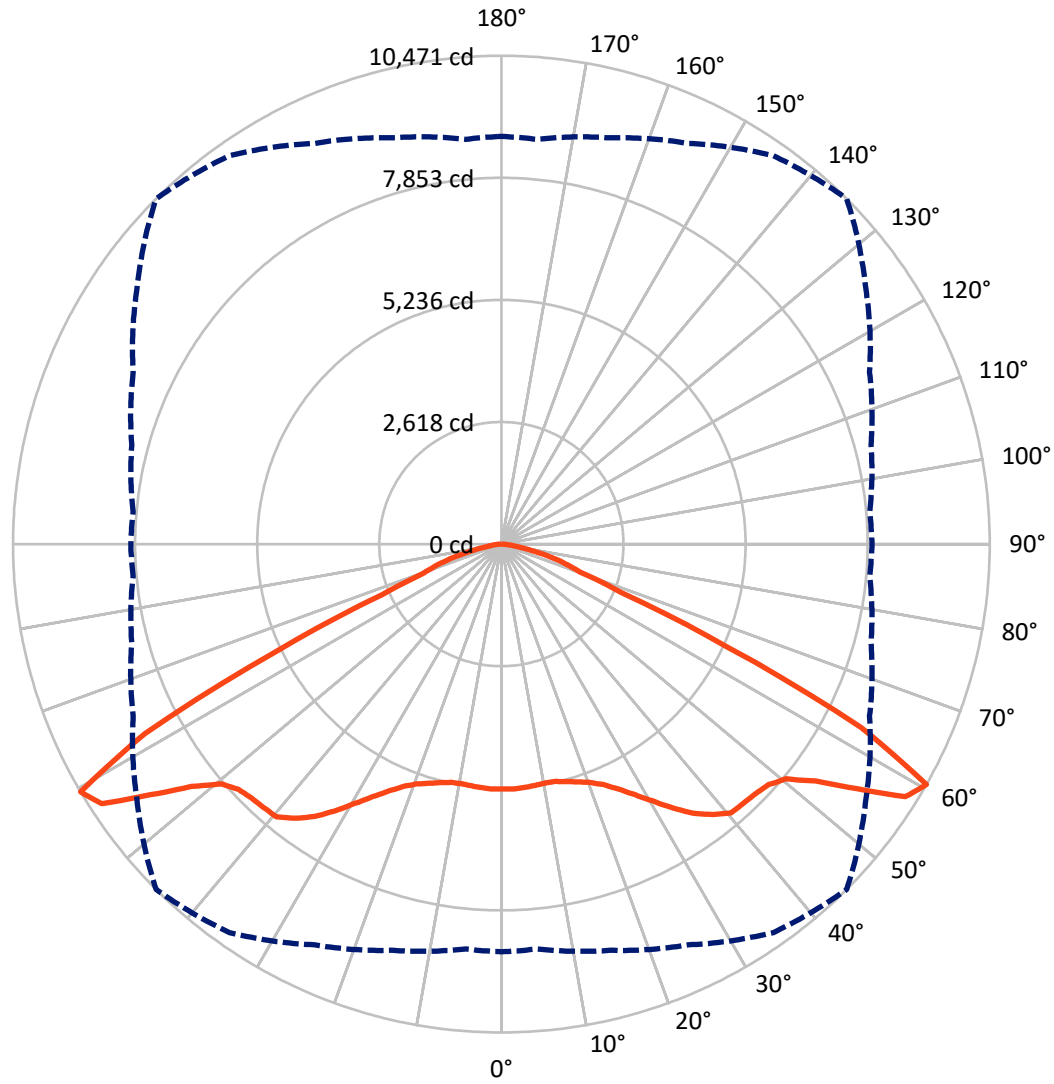
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	14367.7	0.0	14367.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14367.7	0.0	14367.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	28735.3	0.0	28735.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.0	1.7
10°-20°	1498.0	5.2
20°-30°	2650.1	9.2
30°-40°	4266.8	14.8
40°-50°	5864.6	20.4
50°-60°	7815.1	27.2
60°-70°	4870.7	17.0
70°-80°	1120.0	3.9
80°-90°	152.0	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°	28735.3	100.0
0°-180°	28735.3	100.0

Coefficient of Utilization



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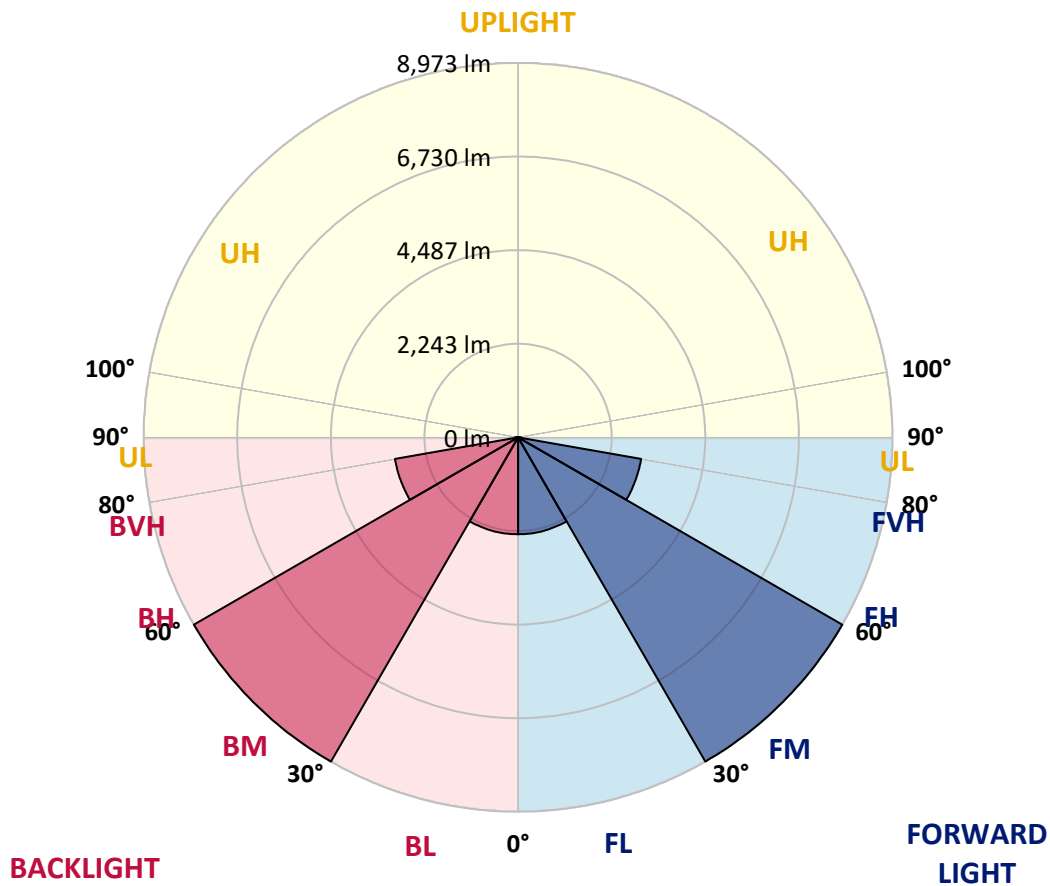
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2323.0	8.1			
FM (30°-60°)	8973.2	31.2			
FH (60°-80°)	2995.4	10.4			G2/5000
FVH (80°-90°)	76.0	0.3			G1/100
BL (0°-30°)	2323.0	8.1	B3/2500		
BM (30°-60°)	8973.2	31.2	B5		
BH (60°-80°)	2995.4	10.4	B4/5000		G2/5000
BVH (80°-90°)	76.0	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°	5251.3	5251.3	5251.3	5251.3	5251.3	5251.3	5251.3	5251.3	5251.3	5251.3	5251.3
2.5°	5214.7	5219.6	5229.4	5236.7	5246.5	5256.2	5261.1	5251.3	5246.5	5226.9	5248.9
5°	5219.6	5224.5	5231.8	5231.8	5234.3	5241.6	5241.6	5229.4	5217.2	5195.2	5219.6
7.5°	5212.3	5217.2	5219.6	5217.2	5219.6	5222.1	5217.2	5202.6	5190.4	5170.8	5190.4
10°	5200.1	5205.0	5209.9	5205.0	5200.1	5207.4	5207.4	5197.7	5190.4	5170.8	5192.8
12.5°	5226.9	5234.3	5236.7	5224.5	5219.6	5222.1	5222.1	5212.3	5212.3	5195.2	5219.6
15°	5290.4	5295.2	5287.9	5273.3	5275.7	5283.0	5266.0	5241.6	5236.7	5229.4	5248.9
17.5°	5339.1	5344.0	5336.7	5326.9	5344.0	5361.1	5329.4	5283.0	5268.4	5263.5	5285.5
20°	5392.8	5400.1	5390.4	5402.6	5436.7	5456.2	5417.2	5353.8	5324.5	5317.2	5344.0
22.5°	5480.6	5490.4	5490.4	5517.2	5568.4	5600.1	5551.3	5466.0	5422.1	5409.9	5436.7
25°	5619.6	5627.0	5634.3	5687.9	5770.9	5814.8	5736.7	5619.6	5558.7	5539.1	5553.8
27.5°	5812.3	5824.5	5836.7	5914.8	6017.2	6080.6	5968.4	5822.1	5746.5	5707.4	5736.7
30°	6041.6	6058.7	6087.9	6175.7	6319.7	6390.4	6246.5	6068.4	5983.1	5941.6	5980.6
32.5°	6353.8	6356.2	6378.2	6475.8	6666.0	6746.5	6566.0	6368.4	6280.6	6231.8	6253.8
35°	6724.5	6727.0	6692.8	6792.8	6997.7	7088.0	6875.8	6675.8	6602.6	6587.9	6644.0
37.5°	7105.0	7083.1	7048.9	7092.8	7300.2	7358.7	7134.3	6963.6	6931.9	6958.7	7041.6
40°	7375.8	7339.2	7270.9	7302.6	7512.4	7580.7	7341.6	7180.6	7170.9	7236.7	7336.7
42.5°	7551.4	7512.4	7431.9	7431.9	7575.8	7605.0	7419.7	7334.3	7356.3	7431.9	7527.0
45°	7636.8	7614.8	7568.5	7544.1	7624.6	7636.8	7495.3	7461.1	7502.6	7539.2	7612.4
47.5°	7702.6	7702.6	7688.0	7663.6	7700.2	7707.5	7602.6	7592.8	7646.5	7646.5	7695.3
50°	7819.7	7831.9	7851.4	7846.5	7885.5	7909.9	7831.9	7817.2	7839.2	7768.5	7792.9
52.5°	8127.0	8158.7	8214.8	8258.7	8358.7	8434.3	8295.3	8178.2	8063.6	7907.5	7912.4
55°	8678.2	8692.9	8802.6	8931.9	9100.2	9253.9	8968.5	8605.1	8356.3	8173.4	8175.8
57.5°	9144.1	9166.1	9327.0	9597.8	9975.8	10214.9	9583.1	8975.8	8624.6	8400.2	8407.5
60°	8741.7	8712.4	9017.3	9480.7	10166.1	10471.0	9539.2	8709.9	8205.1	7927.0	7946.5
62.5°	6763.6	6707.5	7046.5	7531.9	8353.8	8658.7	7800.2	7005.0	6527.0	6309.9	6278.2
65°	4117.2	4065.9	4309.9	4607.4	5163.5	5356.2	4963.5	4541.6	4124.5	3992.8	3956.2
67.5°	2241.5	2234.2	2300.1	2446.4	2690.3	2780.5	2704.9	2504.9	2397.6	2304.9	2304.9
70°	1778.1	1763.5	1751.3	1753.7	1775.6	1787.8	1790.3	1780.5	1792.7	1795.2	1785.4
72.5°	1473.2	1468.3	1443.9	1446.4	1436.6	1431.7	1448.8	1458.6	1478.1	1480.5	1480.5
75°	1068.3	1056.1	1068.3	1070.8	1061.0	1061.0	1073.2	1070.8	1080.5	1085.4	1058.6
77.5°	607.3	607.3	624.4	643.9	658.6	658.6	670.7	670.7	682.9	680.5	675.6
80°	334.2	334.2	343.9	356.1	370.7	385.4	397.6	400.0	407.3	404.9	397.6
82.5°	190.2	192.7	197.6	204.9	219.5	231.7	243.9	246.3	253.7	253.7	246.3
85°	90.2	87.8	90.2	95.1	102.4	112.2	124.4	131.7	136.6	136.6	131.7
87.5°	17.1	19.5	17.1	19.5	22.0	29.3	34.1	39.0	46.3	48.8	43.9
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)