

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: P641430

Luminaire Tested: GWS-SA5F-830-U-5WQ-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641430
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-SA5F-830-U-5WQ-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28002.2 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

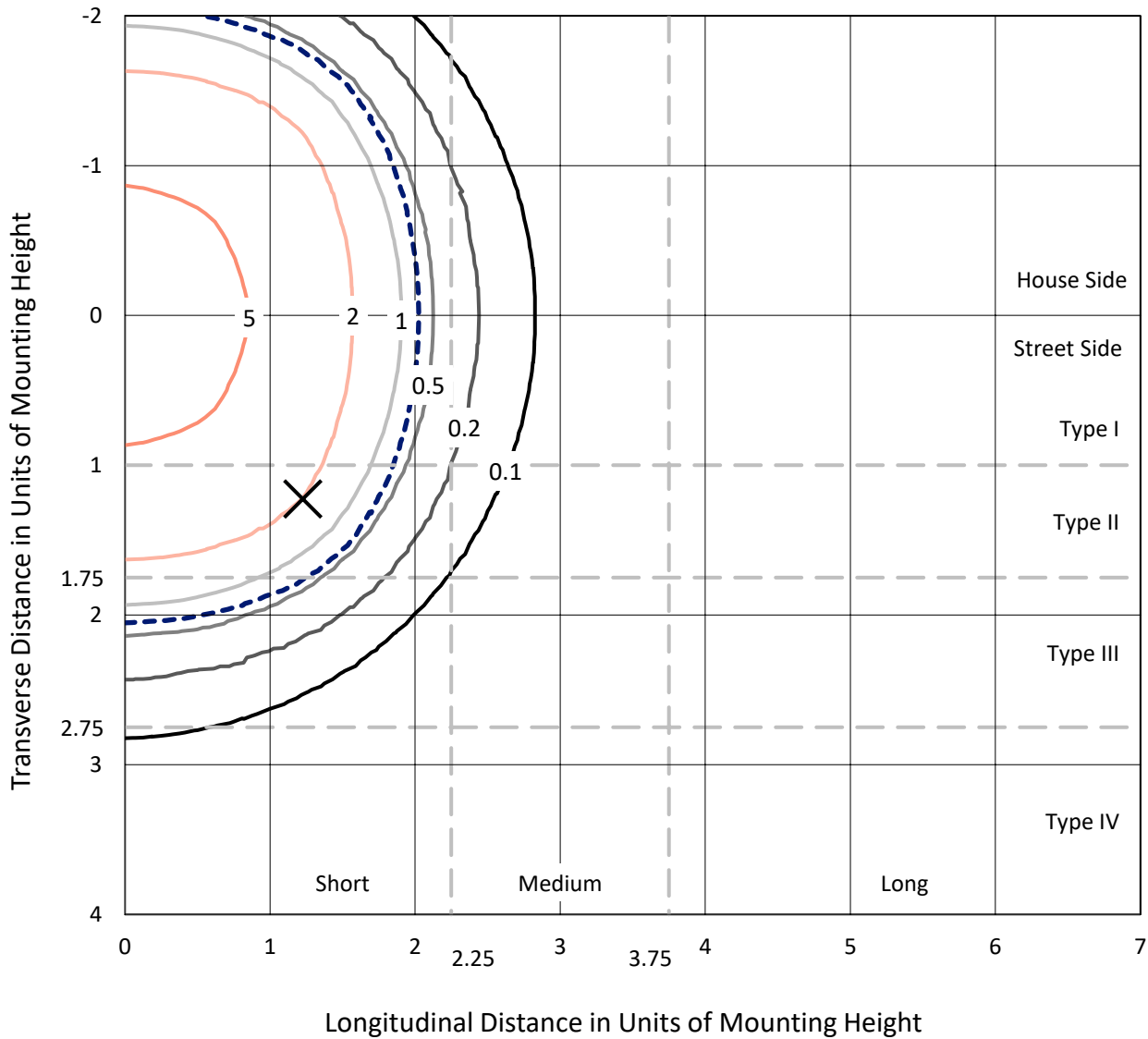
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

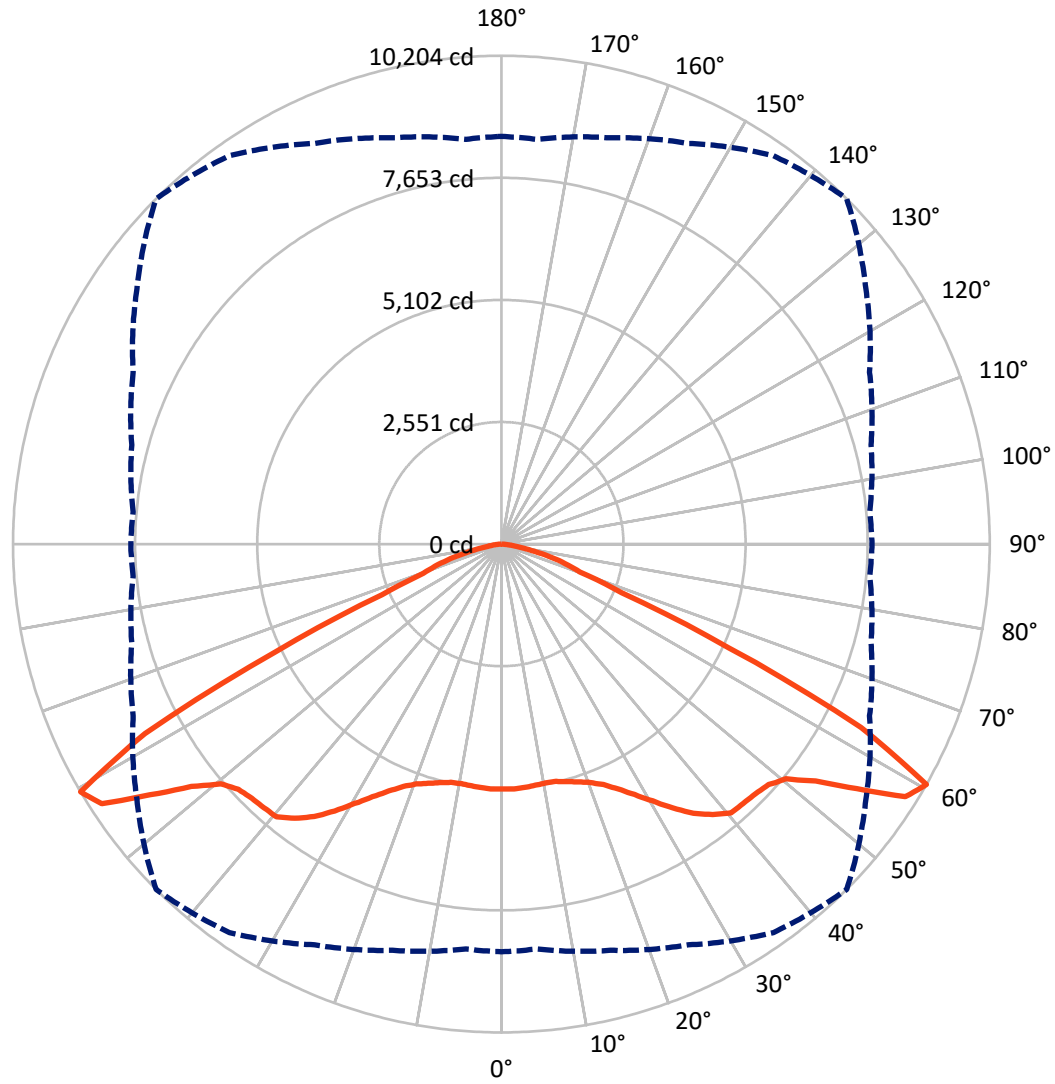
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	14001.1	0.0	14001.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14001.1	0.0	14001.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	28002.2	0.0	28002.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.3	1.7
10°-20°	1459.7	5.2
20°-30°	2582.5	9.2
30°-40°	4157.9	14.8
40°-50°	5715.0	20.4
50°-60°	7615.8	27.2
60°-70°	4746.5	17.0
70°-80°	1091.5	3.9
80°-90°	148.1	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°	28002.2	100.0
0°-180°	28002.2	100.0

Coefficient of Utilization



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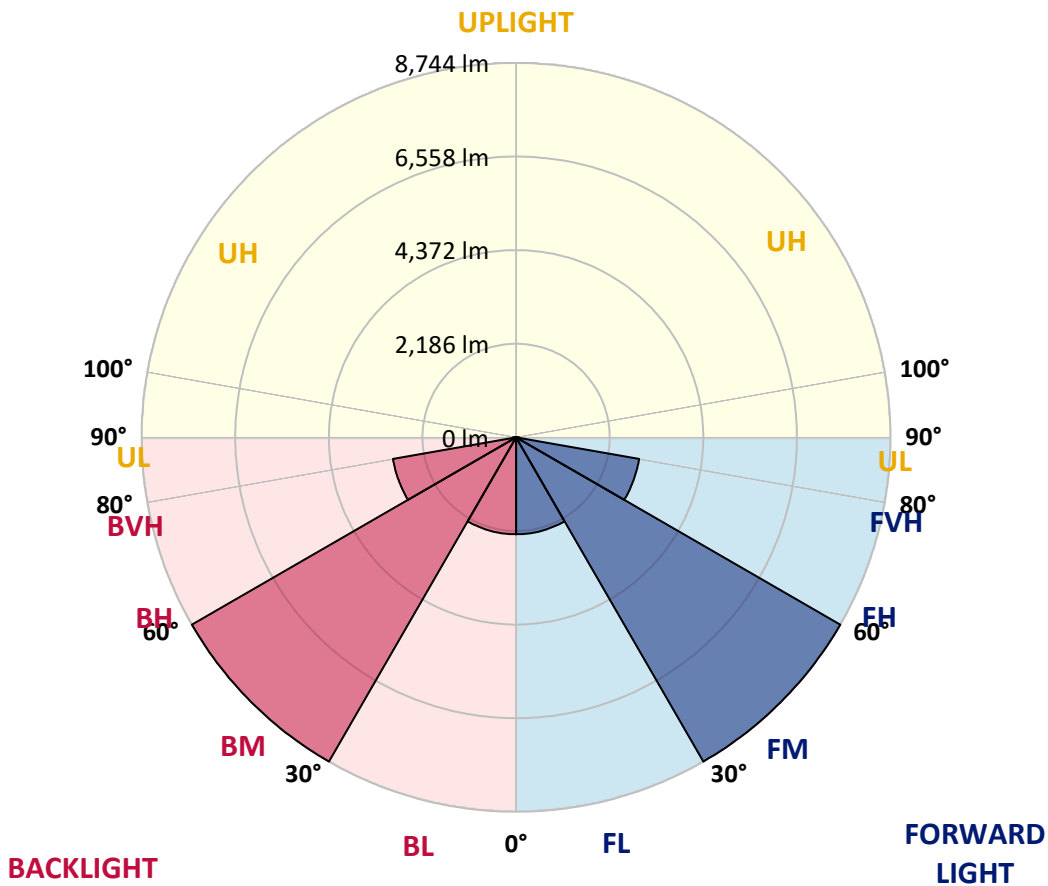
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2263.8	8.1			
FM (30°-60°)	8744.3	31.2			
FH (60°-80°)	2919.0	10.4			G2/5000
FVH (80°-90°)	74.0	0.3			G1/100
BL (0°-30°)	2263.8	8.1	B3/2500		
BM (30°-60°)	8744.3	31.2	B5		
BH (60°-80°)	2919.0	10.4	B4/5000		G2/5000
BVH (80°-90°)	74.0	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°	5117.4	5117.4	5117.4	5117.4	5117.4	5117.4	5117.4	5117.4	5117.4	5117.4	5117.4
2.5°	5081.7	5086.5	5096.0	5103.1	5112.6	5122.1	5126.9	5117.4	5112.6	5093.6	5115.0
5°	5086.5	5091.2	5098.3	5098.3	5100.7	5107.9	5107.9	5096.0	5084.1	5062.7	5086.5
7.5°	5079.3	5084.1	5086.5	5084.1	5086.5	5088.8	5084.1	5069.8	5057.9	5038.9	5057.9
10°	5067.4	5072.2	5077.0	5072.2	5067.4	5074.6	5074.6	5065.1	5057.9	5038.9	5060.3
12.5°	5093.6	5100.7	5103.1	5091.2	5086.5	5088.8	5088.8	5079.3	5079.3	5062.7	5086.5
15°	5155.4	5160.1	5153.0	5138.8	5141.1	5148.3	5131.6	5107.9	5103.1	5096.0	5115.0
17.5°	5202.9	5207.7	5200.6	5191.0	5207.7	5224.3	5193.4	5148.3	5134.0	5129.2	5150.6
20°	5255.2	5262.3	5252.8	5264.7	5298.0	5317.0	5279.0	5217.2	5188.7	5181.5	5207.7
22.5°	5340.8	5350.3	5350.3	5376.4	5426.4	5457.3	5409.7	5326.5	5283.7	5271.9	5298.0
25°	5476.3	5483.4	5490.5	5542.8	5623.6	5666.4	5590.4	5476.3	5416.8	5397.8	5412.1
27.5°	5664.0	5675.9	5687.8	5763.9	5863.7	5925.5	5816.2	5673.5	5599.9	5561.8	5590.4
30°	5887.5	5904.1	5932.6	6018.2	6158.4	6227.4	6087.1	5913.6	5830.4	5790.0	5828.0
32.5°	6191.7	6194.1	6215.5	6310.5	6495.9	6574.4	6398.5	6206.0	6120.4	6072.9	6094.2
35°	6553.0	6555.4	6522.1	6619.5	6819.2	6907.1	6700.3	6505.4	6434.1	6419.9	6474.5
37.5°	6923.8	6902.4	6869.1	6911.9	7113.9	7171.0	6952.3	6785.9	6755.0	6781.2	6862.0
40°	7187.6	7151.9	7085.4	7116.3	7320.7	7387.3	7154.3	6997.5	6987.9	7052.1	7149.6
42.5°	7358.7	7320.7	7242.3	7242.3	7382.5	7411.0	7230.4	7147.2	7168.6	7242.3	7335.0
45°	7441.9	7420.5	7375.4	7351.6	7430.0	7441.9	7304.1	7270.8	7311.2	7346.8	7418.2
47.5°	7506.1	7506.1	7491.8	7468.1	7503.7	7510.9	7408.6	7399.1	7451.4	7451.4	7499.0
50°	7620.2	7632.1	7651.1	7646.3	7684.4	7708.1	7632.1	7617.8	7639.2	7570.3	7594.0
52.5°	7919.7	7950.6	8005.2	8048.0	8145.5	8219.2	8083.7	7969.6	7857.9	7705.8	7710.5
55°	8456.8	8471.1	8578.1	8704.0	8868.0	9017.8	8739.7	8385.5	8143.1	7964.8	7967.2
57.5°	8910.8	8932.2	9089.1	9352.9	9721.3	9954.3	9338.7	8746.8	8404.5	8185.9	8193.0
60°	8518.6	8490.1	8787.2	9238.8	9906.7	10203.8	9295.9	8487.7	7995.7	7724.8	7743.8
62.5°	6591.0	6536.3	6866.7	7339.7	8140.7	8437.8	7601.2	6826.3	6360.5	6148.9	6118.0
65°	4012.1	3962.2	4199.9	4489.9	5031.8	5219.6	4836.9	4425.7	4019.3	3890.9	3855.3
67.5°	2184.3	2177.2	2241.4	2384.0	2621.7	2709.6	2635.9	2441.0	2336.4	2246.1	2246.1
70°	1732.7	1718.5	1706.6	1709.0	1730.3	1742.2	1744.6	1735.1	1747.0	1749.4	1739.9
72.5°	1435.6	1430.9	1407.1	1409.5	1400.0	1395.2	1411.8	1421.4	1440.4	1442.7	1442.7
75°	1041.1	1029.2	1041.1	1043.4	1033.9	1033.9	1045.8	1043.4	1052.9	1057.7	1031.6
77.5°	591.8	591.8	608.5	627.5	641.7	641.7	653.6	653.6	665.5	663.1	658.4
80°	325.6	325.6	335.1	347.0	361.3	375.5	387.4	389.8	396.9	394.6	387.4
82.5°	185.4	187.8	192.5	199.7	213.9	225.8	237.7	240.1	247.2	247.2	240.1
85°	87.9	85.6	87.9	92.7	99.8	109.3	121.2	128.3	133.1	133.1	128.3
87.5°	16.6	19.0	16.6	19.0	21.4	28.5	33.3	38.0	45.2	47.5	42.8
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)