

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: P641427

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-830-U-5NQ-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW 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: 30058.2 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

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

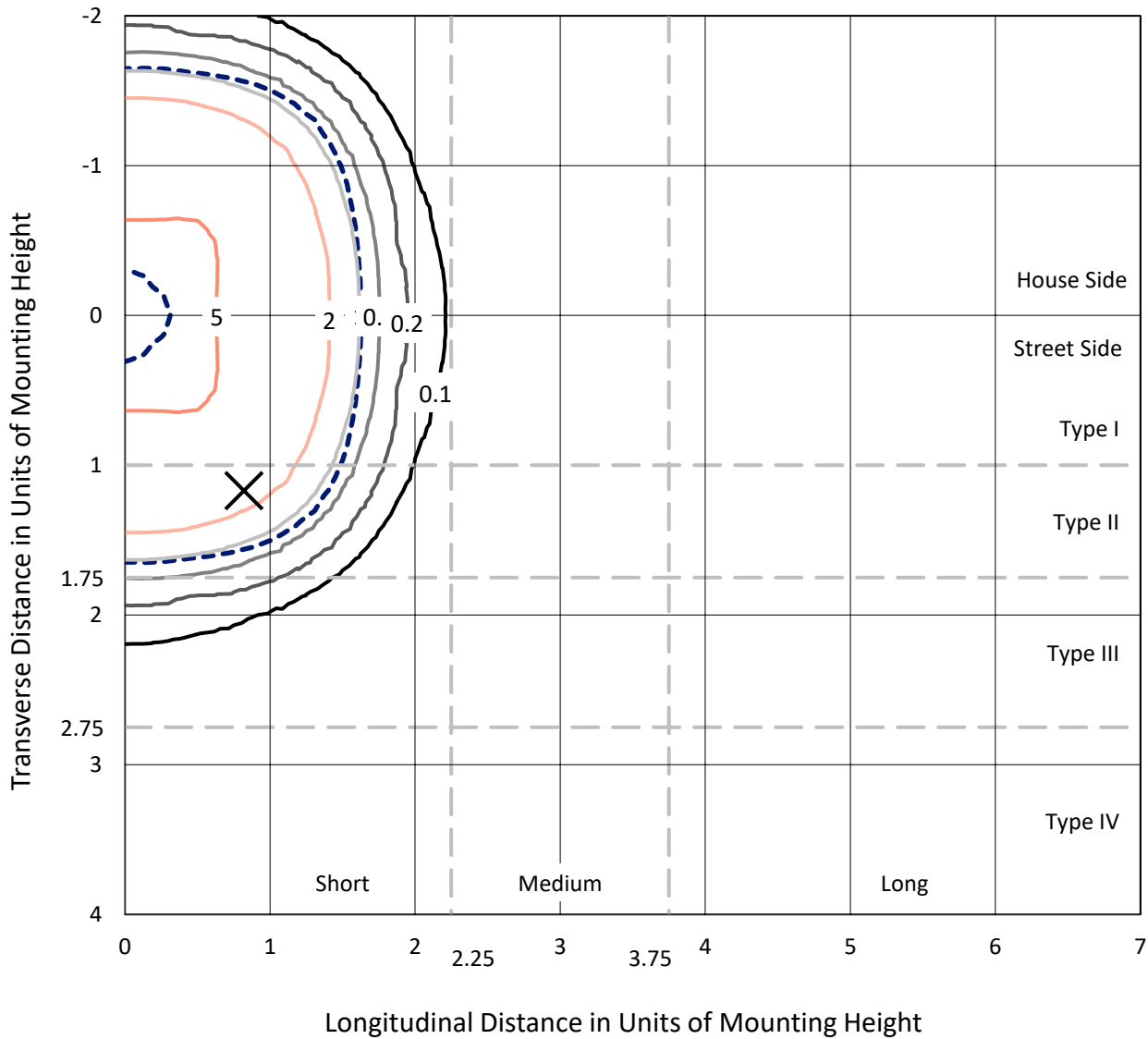


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Iso-Footcandle Lines of Horizontal Illumination

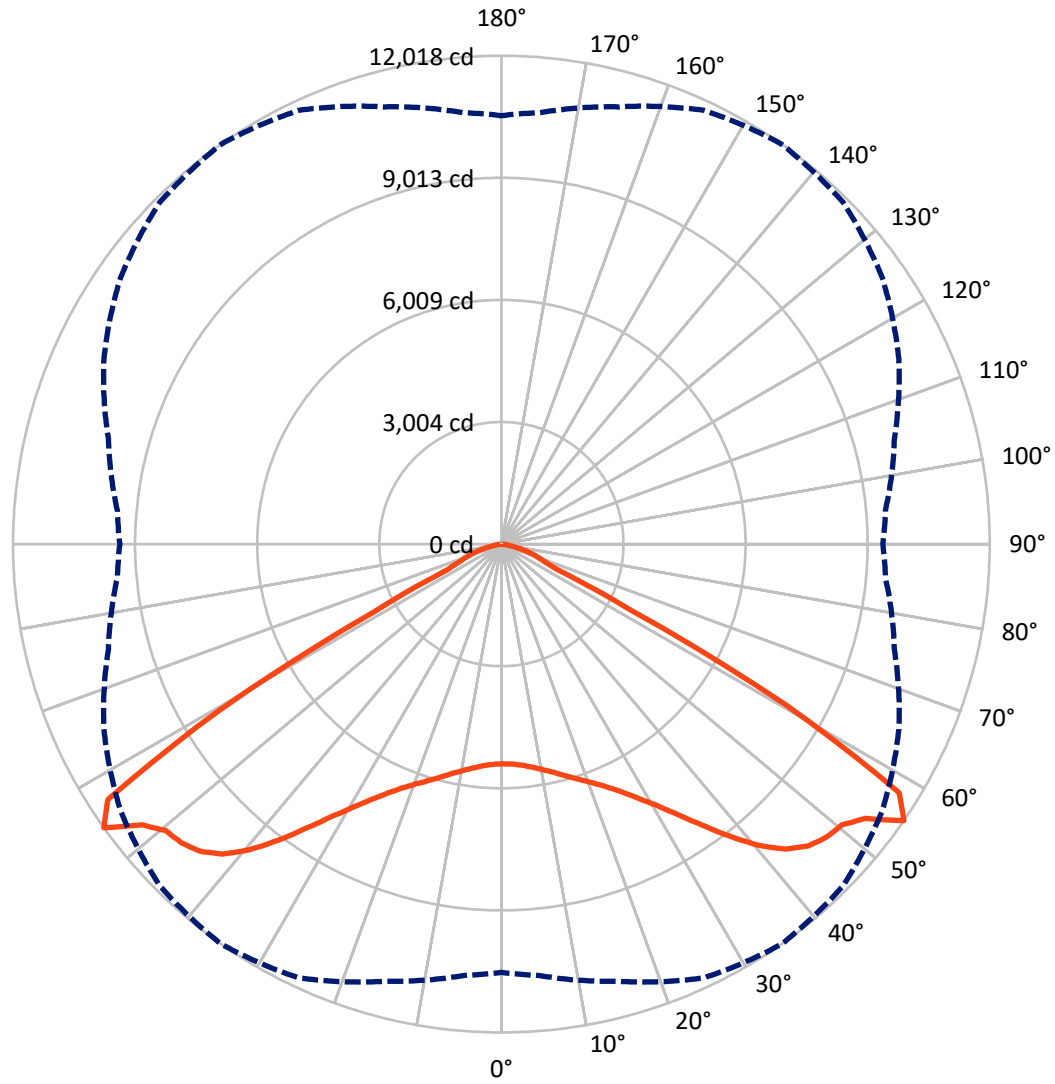
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15029.1	0.0	15029.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15029.1	0.0	15029.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	30058.2	0.0	30058.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	527.4	1.8
10°-20°	1679.2	5.6
20°-30°	3108.0	10.3
30°-40°	5199.0	17.3
40°-50°	7922.4	26.4
50°-60°	8874.7	29.5
60°-70°	2099.8	7.0
70°-80°	566.1	1.9
80°-90°	81.5	0.3
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°	30058.2	100.0
0°-180°	30058.2	100.0

Coefficient of Utilization



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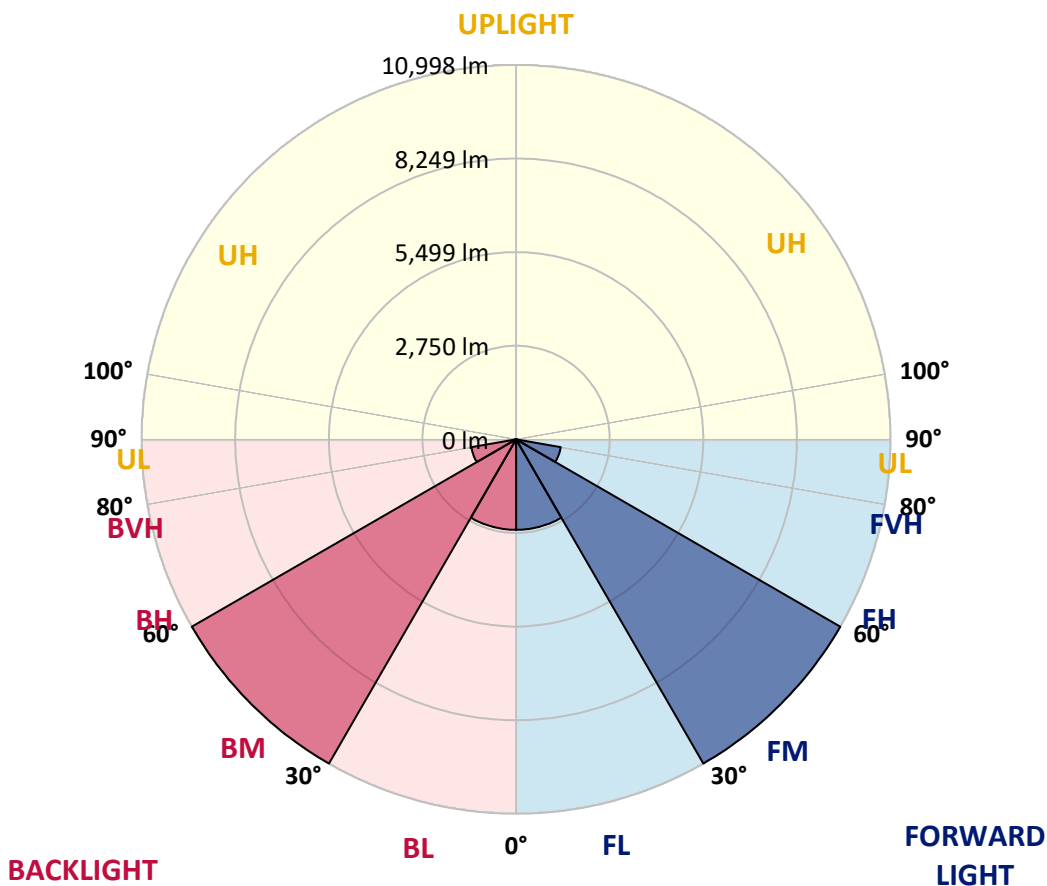
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2657.3	8.8			
FM (30°-60°)	10998.1	36.6			
FH (60°-80°)	1333.0	4.4			G1/1800
FVH (80°-90°)	40.7	0.1			G1/100
BL (0°-30°)	2657.3	8.8	B4/5000		
BM (30°-60°)	10998.1	36.6	B5		
BH (60°-80°)	1333.0	4.4	B3/2500		G1/1800
BVH (80°-90°)	40.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5407.6	5407.6	5407.6	5407.6	5407.6	5407.6	5407.6	5407.6	5407.6	5407.6	5407.6
2.5°	5395.7	5395.7	5405.2	5417.1	5419.4	5443.2	5438.5	5428.9	5424.2	5414.7	5436.1
5°	5455.1	5457.5	5464.6	5471.7	5467.0	5486.0	5478.9	5467.0	5459.8	5448.0	5469.4
7.5°	5533.5	5533.5	5540.7	5550.2	5545.4	5573.9	5559.7	5543.0	5531.2	5516.9	5535.9
10°	5604.8	5609.6	5616.7	5635.7	5645.2	5676.1	5666.6	5642.9	5623.9	5607.2	5628.6
12.5°	5711.8	5716.6	5723.7	5749.8	5766.5	5797.4	5783.1	5749.8	5721.3	5697.5	5721.3
15°	5849.7	5844.9	5863.9	5897.2	5918.6	5947.1	5930.5	5873.4	5835.4	5804.5	5828.3
17.5°	5989.9	5987.5	6006.5	6049.3	6080.2	6118.3	6089.7	6023.2	5982.8	5944.7	5968.5
20°	6142.0	6149.2	6168.2	6208.6	6253.7	6303.7	6279.9	6208.6	6163.4	6120.6	6139.7
22.5°	6329.8	6332.2	6353.6	6405.9	6465.3	6512.8	6498.6	6410.6	6353.6	6308.4	6332.2
25°	6555.6	6553.2	6581.8	6643.6	6726.8	6774.3	6743.4	6645.9	6584.1	6531.8	6550.9
27.5°	6814.7	6812.3	6855.1	6935.9	7054.8	7121.3	7057.2	6935.9	6850.4	6776.7	6793.3
30°	7140.3	7133.2	7180.8	7290.1	7444.6	7556.3	7461.2	7292.5	7180.8	7102.3	7119.0
32.5°	7501.6	7511.1	7570.6	7717.9	7912.9	8057.8	7915.2	7727.4	7577.7	7463.6	7482.6
35°	7898.6	7898.6	8019.8	8202.8	8480.9	8673.5	8452.4	8181.4	7981.8	7824.9	7829.7
37.5°	8340.7	8345.5	8504.7	8756.7	9120.3	9346.1	9046.7	8711.5	8469.1	8300.3	8290.8
40°	8880.3	8894.5	9058.5	9339.0	9747.9	9954.6	9633.8	9305.7	9058.5	8858.9	8839.9
42.5°	9488.8	9493.5	9667.0	9919.0	10263.7	10387.3	10135.3	9866.7	9664.7	9484.0	9465.0
45°	10068.7	10056.9	10206.6	10394.4	10594.0	10605.9	10465.7	10356.4	10180.5	10026.0	9997.4
47.5°	10520.4	10510.9	10646.3	10748.5	10772.3	10655.8	10701.0	10717.6	10513.2	10304.1	10249.4
50°	10796.1	10815.1	10943.5	11000.5	10860.3	10670.1	10841.2	10798.5	10506.1	10232.8	10144.8
52.5°	10962.5	10991.0	11214.4	11359.4	11214.4	11033.8	11057.6	10805.6	10384.9	10023.6	9909.5
55°	10541.8	10655.8	11138.4	11780.1	12017.8	11891.9	11440.2	10791.3	10011.7	9486.4	9388.9
57.5°	7813.0	7993.7	8709.1	10099.6	11544.8	12003.6	10684.4	9046.7	7865.3	7190.3	7133.2
60°	3988.5	4190.6	4763.4	6191.9	8050.7	8697.2	7442.2	5792.6	4604.1	4057.4	3995.6
62.5°	1628.2	1661.5	1849.3	2400.7	3558.3	4105.0	3605.8	2531.4	1901.6	1751.8	1754.2
65°	1281.2	1288.3	1278.8	1312.1	1490.3	1654.4	1528.4	1343.0	1309.7	1326.3	1314.5
67.5°	1117.2	1119.5	1112.4	1112.4	1119.5	1112.4	1126.7	1133.8	1138.6	1157.6	1145.7
70°	934.1	936.5	936.5	941.3	938.9	927.0	948.4	957.9	960.3	972.2	965.0
72.5°	722.6	729.7	734.5	736.9	734.5	727.3	739.2	755.9	753.5	765.4	753.5
75°	489.7	499.2	503.9	513.4	511.0	511.0	525.3	532.4	525.3	534.8	525.3
77.5°	278.1	285.2	299.5	309.0	318.5	325.6	335.1	339.9	337.5	342.3	337.5
80°	161.6	164.0	175.9	180.6	192.5	204.4	213.9	218.7	221.1	223.4	221.1
82.5°	92.7	95.1	99.8	104.6	114.1	123.6	133.1	140.2	140.2	142.6	140.2
85°	45.2	45.2	47.5	49.9	54.7	61.8	68.9	76.1	78.4	78.4	78.4
87.5°	7.1	7.1	9.5	9.5	11.9	14.3	19.0	23.8	26.1	26.1	26.1
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)