

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: P643902

Luminaire Tested: GWS-SA6F-830-U-5NQ-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643902
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-SA6F-830-U-5NQ-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35842.3 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

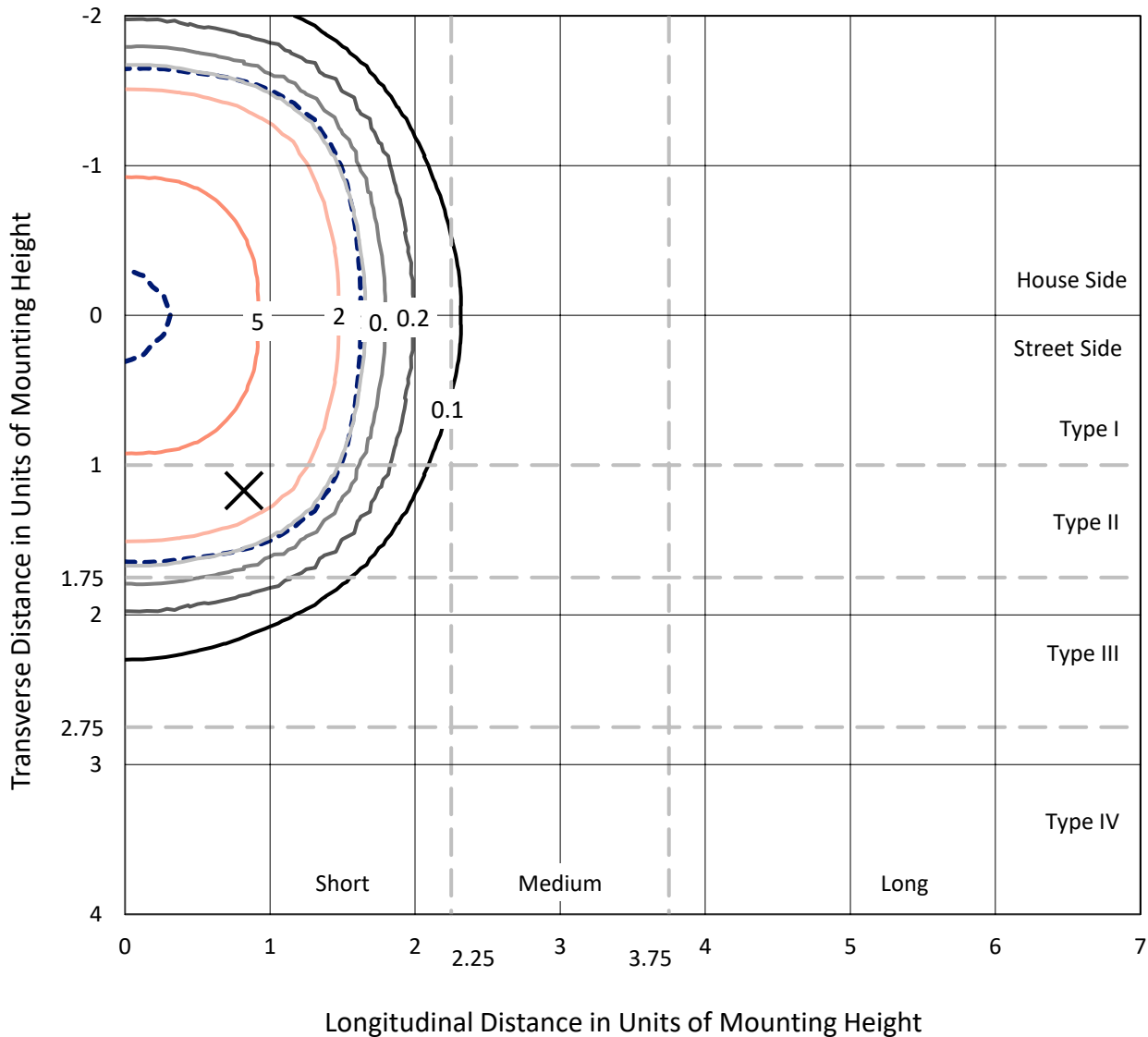
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P643902
 CATALOG NUMBER: GWS-SA6F-830-U-5NQ-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

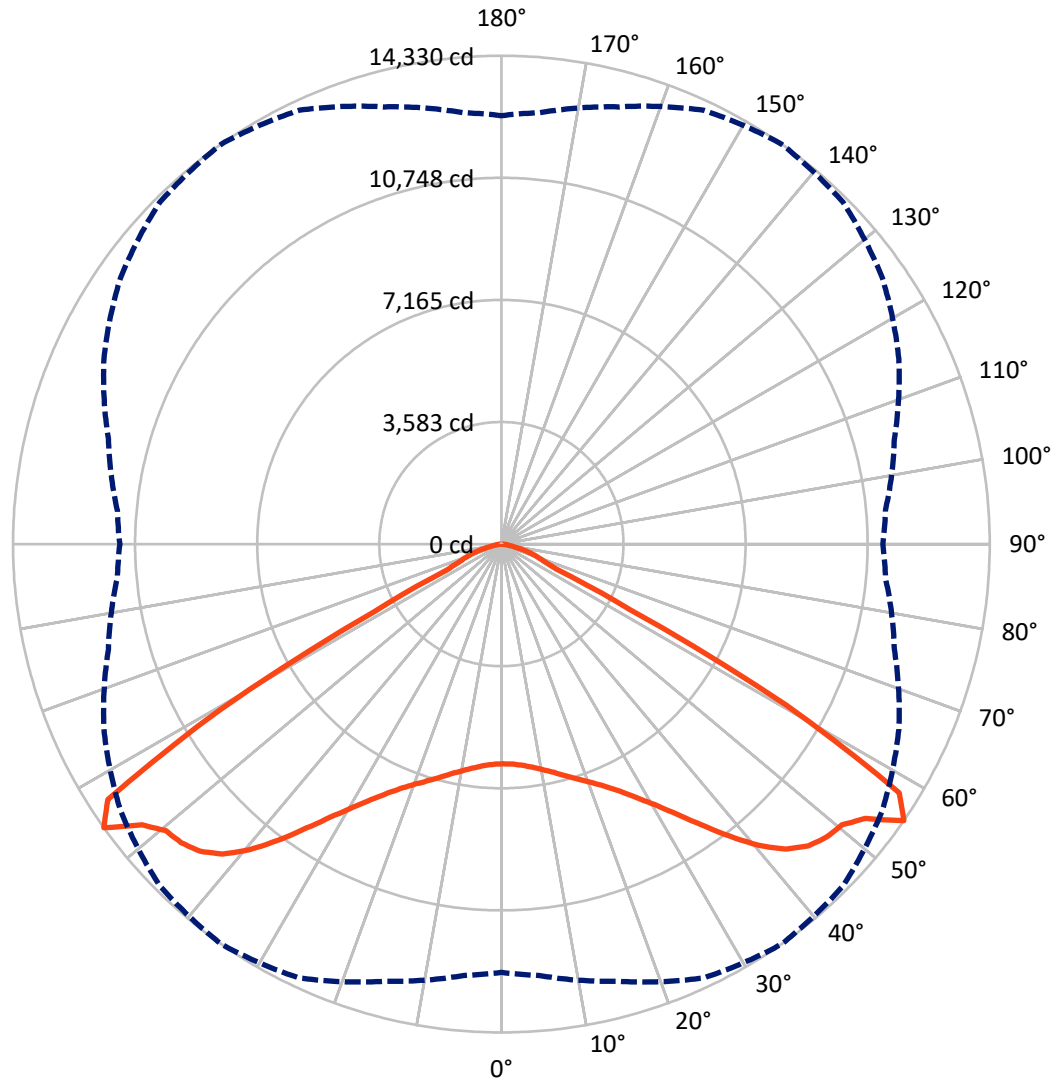
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 fc
 Type V - Short - N/A

REPORT NUMBER: P643902
CATALOG NUMBER: GWS-SA6F-830-U-5NQ-W-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P643902

CATALOG NUMBER: GWS-SA6F-830-U-5NQ-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17921.1	0.0	17921.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17921.1	0.0	17921.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	35842.3	0.0	35842.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	628.9	1.8
10°-20°	2002.4	5.6
20°-30°	3706.0	10.3
30°-40°	6199.4	17.3
40°-50°	9446.9	26.4
50°-60°	10582.5	29.5
60°-70°	2503.9	7.0
70°-80°	675.1	1.9
80°-90°	97.1	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°	35842.3	100.0
0°-180°	35842.3	100.0

Coefficient of Utilization



REPORT NUMBER: P643902

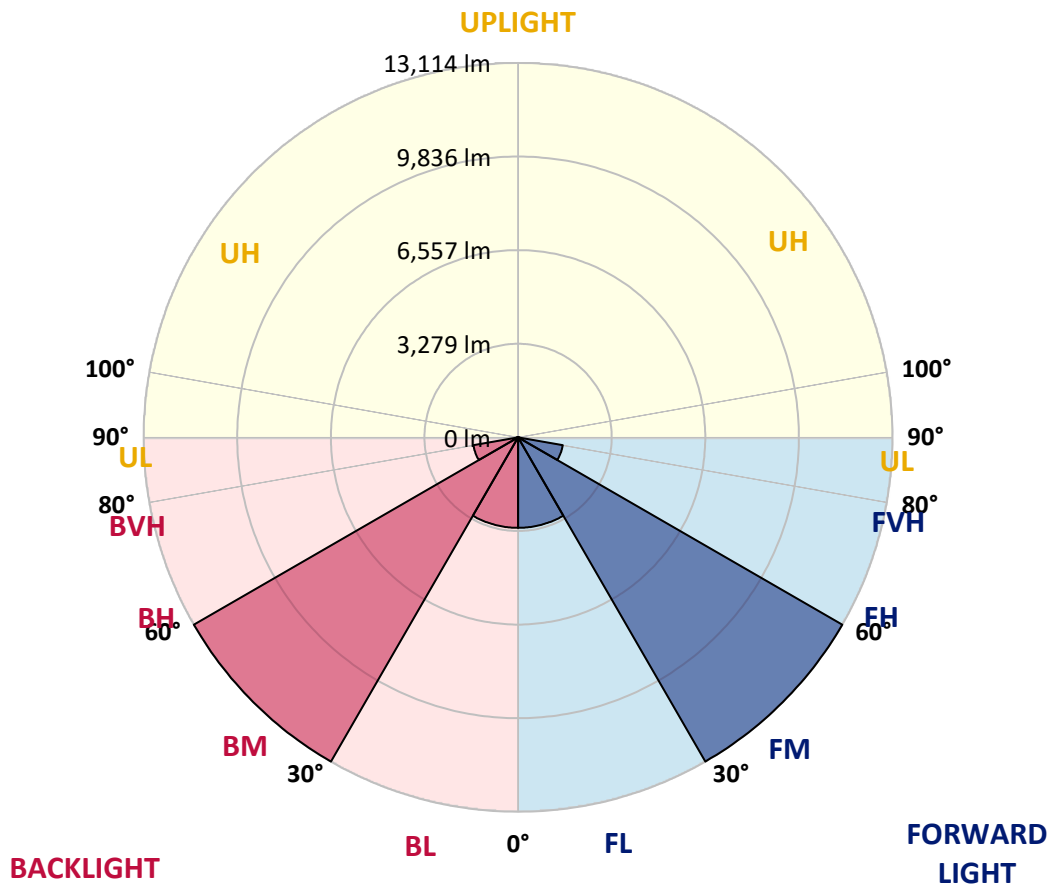
CATALOG NUMBER: GWS-SA6F-830-U-5NQ-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3168.7	8.8			
FM (30°-60°)	13114.4	36.6			
FH (60°-80°)	1589.5	4.4			G1/1800
FVH (80°-90°)	48.6	0.1			G1/100
BL (0°-30°)	3168.7	8.8	B4/5000		
BM (30°-60°)	13114.4	36.6	B5		
BH (60°-80°)	1589.5	4.4	B3/2500		G1/1800
BVH (80°-90°)	48.6	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





REPORT NUMBER: P643902

CATALOG NUMBER: GWS-SA6F-830-U-5NQ-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6448.1	6448.1	6448.1	6448.1	6448.1	6448.1	6448.1	6448.1	6448.1	6448.1	6448.1
2.5°	6434.0	6434.0	6445.3	6459.5	6462.3	6490.6	6485.0	6473.6	6468.0	6456.6	6482.1
5°	6504.8	6507.6	6516.2	6524.7	6519.0	6541.7	6533.2	6519.0	6510.5	6496.3	6521.8
7.5°	6598.3	6598.3	6606.8	6618.2	6612.5	6646.5	6629.5	6609.7	6595.5	6578.5	6601.2
10°	6683.4	6689.0	6697.5	6720.2	6731.6	6768.4	6757.1	6728.7	6706.1	6686.2	6711.7
12.5°	6810.9	6816.6	6825.1	6856.3	6876.1	6913.0	6896.0	6856.3	6822.3	6793.9	6822.3
15°	6975.3	6969.6	6992.3	7032.0	7057.5	7091.5	7071.7	7003.7	6958.3	6921.5	6949.8
17.5°	7142.5	7139.7	7162.4	7213.4	7250.2	7295.6	7261.6	7182.2	7134.0	7088.7	7117.0
20°	7323.9	7332.4	7355.1	7403.3	7457.2	7516.7	7488.3	7403.3	7349.4	7298.4	7321.1
22.5°	7547.9	7550.7	7576.2	7638.5	7709.4	7766.1	7749.1	7644.2	7576.2	7522.3	7550.7
25°	7817.1	7814.3	7848.3	7922.0	8021.2	8077.9	8041.0	7924.8	7851.1	7788.8	7811.4
27.5°	8126.1	8123.2	8174.2	8270.6	8412.3	8491.7	8415.2	8270.6	8168.6	8080.7	8100.5
30°	8514.4	8505.9	8562.5	8692.9	8877.2	9010.4	8897.0	8695.8	8562.5	8469.0	8488.9
32.5°	8945.2	8956.5	9027.4	9203.1	9435.5	9608.4	9438.4	9214.4	9035.9	8899.8	8922.5
35°	9418.5	9418.5	9563.1	9781.3	10112.9	10342.5	10078.9	9755.8	9517.7	9330.7	9336.3
37.5°	9945.7	9951.4	10141.3	10441.7	10875.4	11144.6	10787.5	10387.9	10098.8	9897.5	9886.2
40°	10589.1	10606.1	10801.7	11136.1	11623.6	11870.2	11487.6	11096.4	10801.7	10563.6	10540.9
42.5°	11314.7	11320.4	11527.3	11827.7	12238.7	12386.1	12085.6	11765.3	11524.4	11309.0	11286.3
45°	12006.3	11992.1	12170.7	12394.6	12632.7	12646.8	12479.6	12349.2	12139.5	11955.3	11921.2
47.5°	12544.8	12533.5	12695.0	12816.9	12845.2	12706.4	12760.2	12780.0	12536.3	12286.9	12221.7
50°	12873.6	12896.3	13049.3	13117.3	12950.1	12723.4	12927.4	12876.4	12527.8	12201.8	12097.0
52.5°	13072.0	13106.0	13372.4	13545.3	13372.4	13157.0	13185.4	12884.9	12383.2	11952.4	11816.4
55°	12570.3	12706.4	13281.7	14047.0	14330.4	14180.2	13641.7	12867.9	11938.2	11311.9	11195.6
57.5°	9316.5	9531.9	10385.0	12043.1	13766.4	14313.4	12740.4	10787.5	9378.8	8573.9	8505.9
60°	4756.0	4996.9	5680.0	7383.5	9599.9	10370.9	8874.3	6907.3	5490.1	4838.2	4764.5
62.5°	1941.5	1981.2	2205.1	2862.7	4243.0	4894.9	4299.7	3018.6	2267.5	2088.9	2091.7
65°	1527.7	1536.2	1524.9	1564.6	1777.1	1972.7	1822.5	1601.4	1561.7	1581.6	1567.4
67.5°	1332.1	1335.0	1326.5	1326.5	1335.0	1326.5	1343.5	1352.0	1357.6	1380.3	1366.2
70°	1113.9	1116.7	1116.7	1122.4	1119.6	1105.4	1130.9	1142.2	1145.1	1159.2	1150.7
72.5°	861.6	870.1	875.8	878.6	875.8	867.3	881.5	901.3	898.5	912.7	898.5
75°	583.9	595.2	600.9	612.2	609.4	609.4	626.4	634.9	626.4	637.7	626.4
77.5°	331.6	340.1	357.1	368.5	379.8	388.3	399.6	405.3	402.5	408.1	402.5
80°	192.7	195.6	209.7	215.4	229.6	243.8	255.1	260.8	263.6	266.4	263.6
82.5°	110.5	113.4	119.0	124.7	136.0	147.4	158.7	167.2	167.2	170.1	167.2
85°	53.9	53.9	56.7	59.5	65.2	73.7	82.2	90.7	93.5	93.5	93.5
87.5°	8.5	8.5	11.3	11.3	14.2	17.0	22.7	28.3	31.2	31.2	31.2
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)