

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: P636975

Luminaire Tested: GWS-SA4B-830-U-5WQ-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636975
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-SA4B-830-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) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9710.8 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

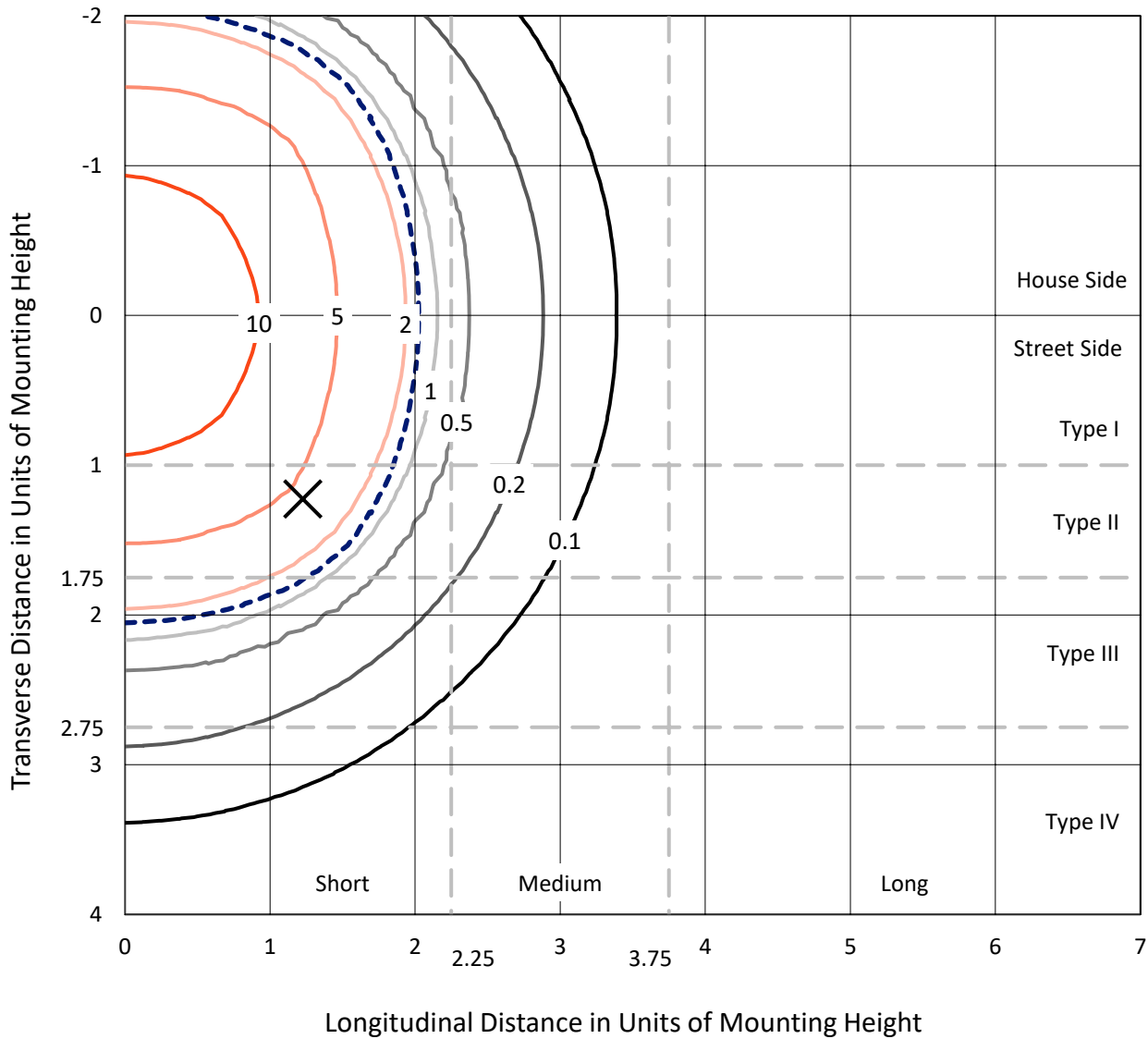
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P636975
 CATALOG NUMBER: GWS-SA4B-830-U-5WQ-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

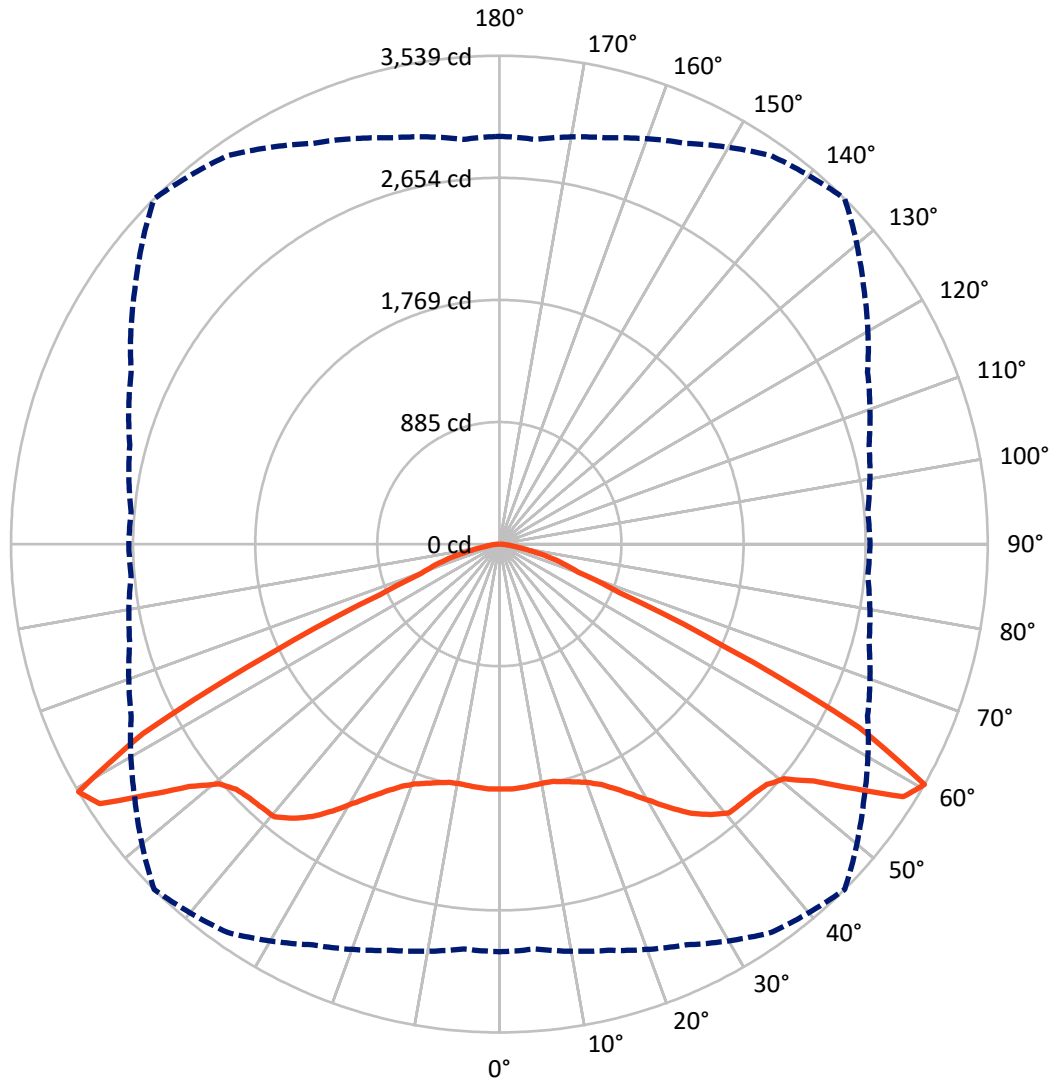
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.7 fc
 Type V - Short - N/A

REPORT NUMBER: P636975
CATALOG NUMBER: GWS-SA4B-830-U-5WQ-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P636975

CATALOG NUMBER: GWS-SA4B-830-U-5WQ-W-GRSWH

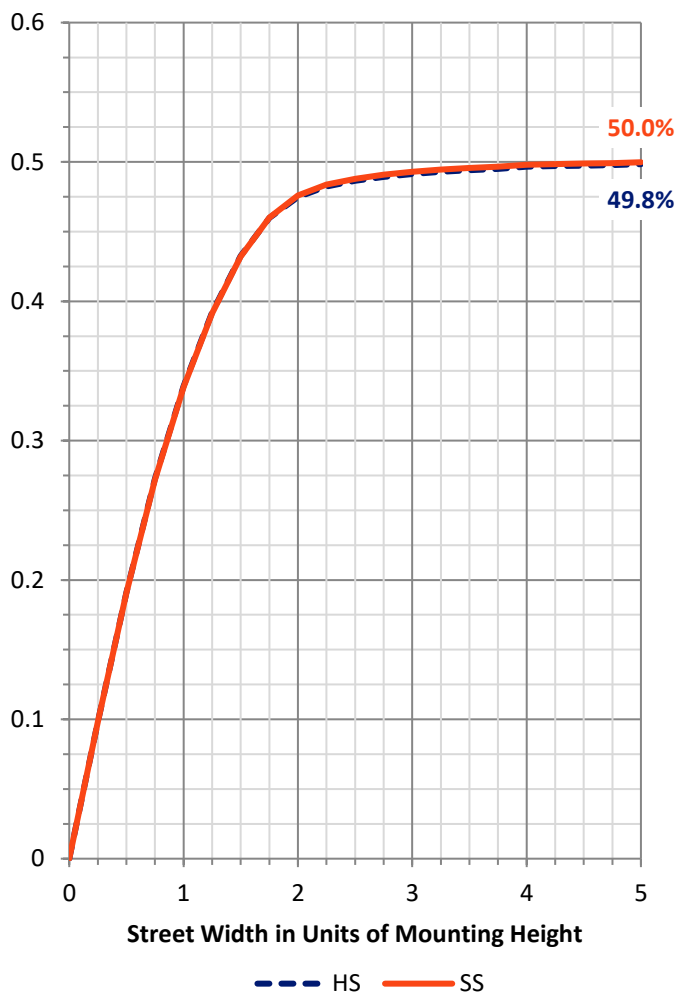
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4855.4	0.0	4855.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4855.4	0.0	4855.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	9710.8	0.0	9710.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.3	1.7
10°-20°	506.2	5.2
20°-30°	895.6	9.2
30°-40°	1441.9	14.8
40°-50°	1981.9	20.4
50°-60°	2641.0	27.2
60°-70°	1646.0	17.0
70°-80°	378.5	3.9
80°-90°	51.4	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°	9710.8	100.0
0°-180°	9710.8	100.0

Coefficient of Utilization



REPORT NUMBER: P636975

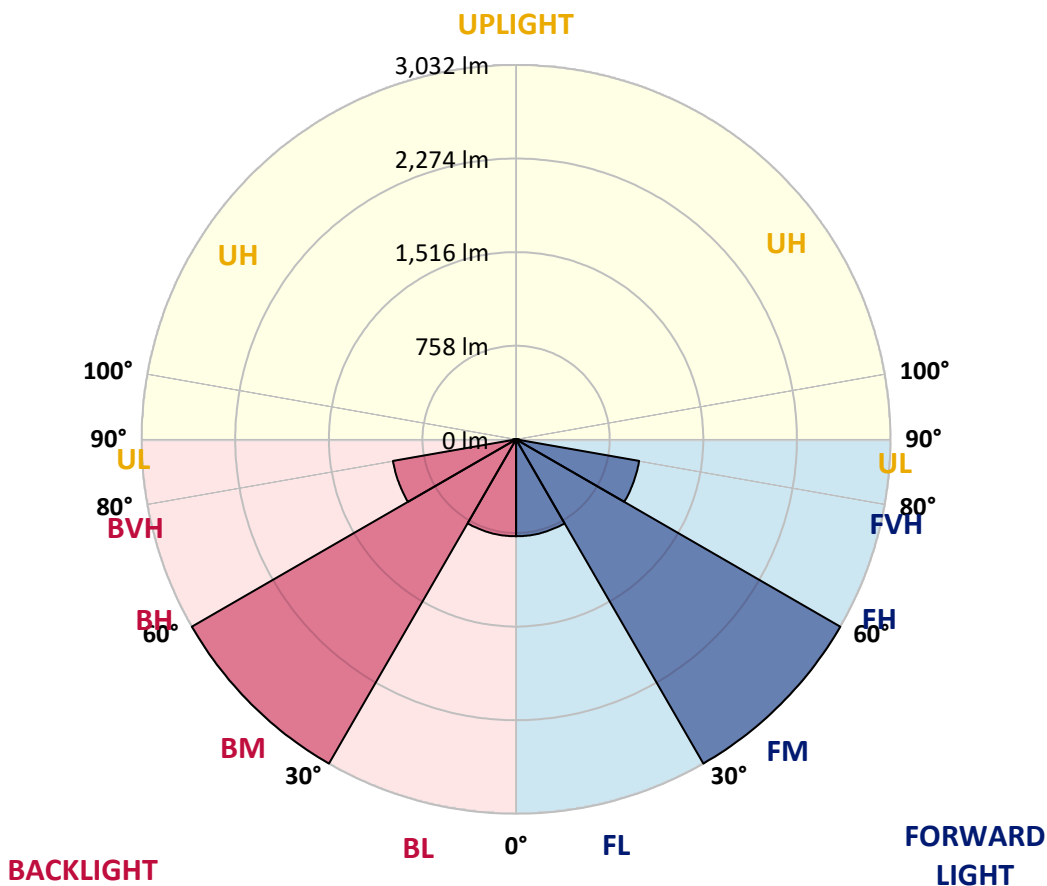
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	785.1	8.1			
FM (30°-60°)	3032.4	31.2			
FH (60°-80°)	1012.3	10.4			G1/1800
FVH (80°-90°)	25.7	0.3			G1/100
BL (0°-30°)	785.1	8.1	B2/1000		
BM (30°-60°)	3032.4	31.2	B3/5000		
BH (60°-80°)	1012.3	10.4	B3/2500		G1/1800
BVH (80°-90°)	25.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





REPORT NUMBER: P636975

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1774.6	1774.6	1774.6	1774.6	1774.6	1774.6	1774.6	1774.6	1774.6	1774.6	1774.6
2.5°	1762.3	1763.9	1767.2	1769.7	1773.0	1776.3	1777.9	1774.6	1773.0	1766.4	1773.8
5°	1763.9	1765.6	1768.0	1768.0	1768.9	1771.3	1771.3	1767.2	1763.1	1755.7	1763.9
7.5°	1761.4	1763.1	1763.9	1763.1	1763.9	1764.7	1763.1	1758.1	1754.0	1747.4	1754.0
10°	1757.3	1759.0	1760.6	1759.0	1757.3	1759.8	1759.8	1756.5	1754.0	1747.4	1754.9
12.5°	1766.4	1768.9	1769.7	1765.6	1763.9	1764.7	1764.7	1761.4	1761.4	1755.7	1763.9
15°	1787.8	1789.5	1787.0	1782.1	1782.9	1785.4	1779.6	1771.3	1769.7	1767.2	1773.8
17.5°	1804.3	1806.0	1803.5	1800.2	1806.0	1811.7	1801.0	1785.4	1780.4	1778.8	1786.2
20°	1822.4	1824.9	1821.6	1825.7	1837.3	1843.9	1830.7	1809.3	1799.4	1796.9	1806.0
22.5°	1852.1	1855.4	1855.4	1864.5	1881.8	1892.5	1876.0	1847.2	1832.3	1828.2	1837.3
25°	1899.1	1901.6	1904.0	1922.2	1950.2	1965.0	1938.7	1899.1	1878.5	1871.9	1876.8
27.5°	1964.2	1968.3	1972.5	1998.8	2033.5	2054.9	2017.0	1967.5	1942.0	1928.8	1938.7
30°	2041.7	2047.5	2057.4	2087.0	2135.7	2159.6	2110.9	2050.8	2021.9	2007.9	2021.1
32.5°	2147.2	2148.0	2155.4	2188.4	2252.7	2279.9	2218.9	2152.1	2122.5	2106.0	2113.4
35°	2272.5	2273.3	2261.8	2295.6	2364.8	2395.3	2323.6	2256.0	2231.3	2226.3	2245.3
37.5°	2401.1	2393.7	2382.1	2397.0	2467.0	2486.8	2411.0	2353.3	2342.6	2351.6	2379.6
40°	2492.6	2480.2	2457.1	2467.8	2538.7	2561.8	2481.0	2426.6	2423.3	2445.6	2479.4
42.5°	2551.9	2538.7	2511.5	2511.5	2560.2	2570.0	2507.4	2478.6	2486.0	2511.5	2543.7
45°	2580.8	2573.3	2557.7	2549.4	2576.6	2580.8	2533.0	2521.4	2535.4	2547.8	2572.5
47.5°	2603.0	2603.0	2598.1	2589.8	2602.2	2604.7	2569.2	2565.9	2584.1	2584.1	2600.5
50°	2642.6	2646.7	2653.3	2651.6	2664.8	2673.1	2646.7	2641.8	2649.2	2625.3	2633.5
52.5°	2746.4	2757.2	2776.1	2790.9	2824.7	2850.3	2803.3	2763.7	2725.0	2672.3	2673.9
55°	2932.7	2937.7	2974.8	3018.4	3075.3	3127.2	3030.8	2908.0	2823.9	2762.1	2762.9
57.5°	3090.2	3097.6	3152.0	3243.5	3371.2	3452.0	3238.5	3033.3	2914.6	2838.8	2841.2
60°	2954.2	2944.3	3047.3	3203.9	3435.5	3538.6	3223.7	2943.4	2772.8	2678.8	2685.4
62.5°	2285.7	2266.7	2381.3	2545.3	2823.1	2926.1	2636.0	2367.3	2205.7	2132.4	2121.6
65°	1391.4	1374.0	1456.5	1557.0	1745.0	1810.1	1677.4	1534.8	1393.8	1349.3	1337.0
67.5°	757.5	755.0	777.3	826.7	909.2	939.7	914.1	846.5	810.2	778.9	778.9
70°	600.9	595.9	591.8	592.6	600.1	604.2	605.0	601.7	605.8	606.7	603.4
72.5°	497.9	496.2	488.0	488.8	485.5	483.8	489.6	492.9	499.5	500.3	500.3
75°	361.0	356.9	361.0	361.9	358.6	358.6	362.7	361.9	365.1	366.8	357.7
77.5°	205.2	205.2	211.0	217.6	222.6	222.6	226.7	226.7	230.8	230.0	228.3
80°	112.9	112.9	116.2	120.3	125.3	130.2	134.4	135.2	137.7	136.8	134.4
82.5°	64.3	65.1	66.8	69.2	74.2	78.3	82.4	83.3	85.7	85.7	83.3
85°	30.5	29.7	30.5	32.1	34.6	37.9	42.0	44.5	46.2	46.2	44.5
87.5°	5.8	6.6	5.8	6.6	7.4	9.9	11.5	13.2	15.7	16.5	14.8
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)