

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: P636974

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636974
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-2)
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-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6051 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G0

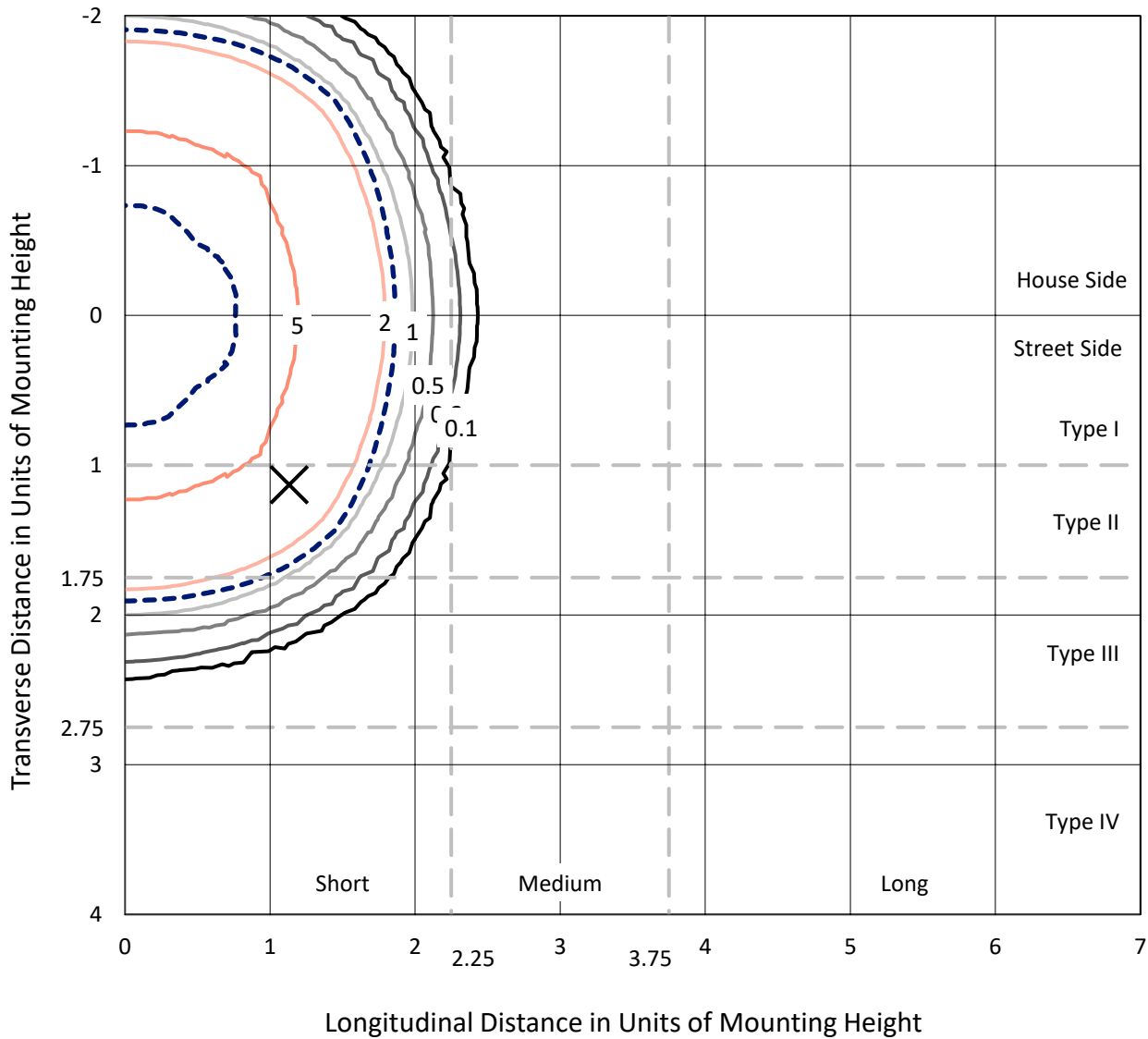
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

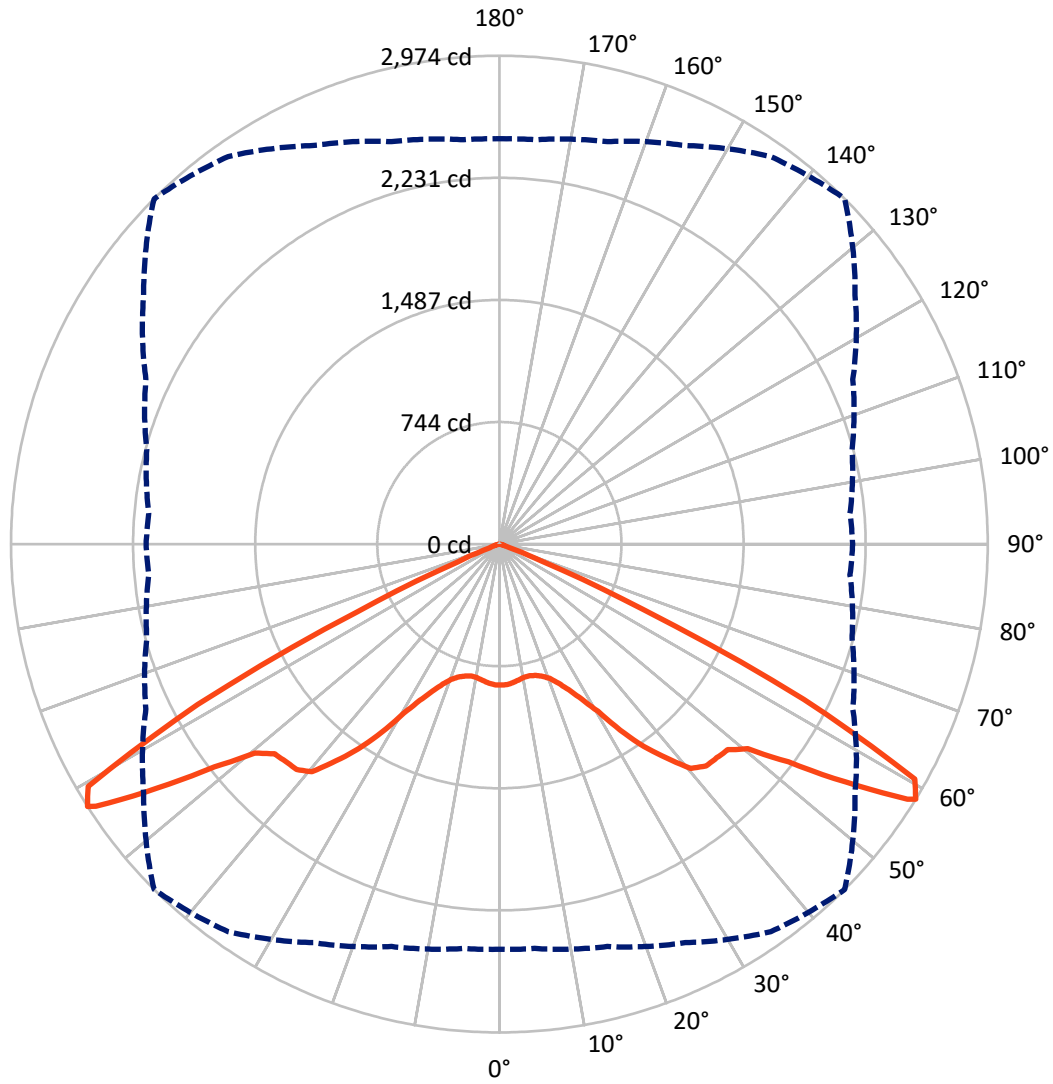
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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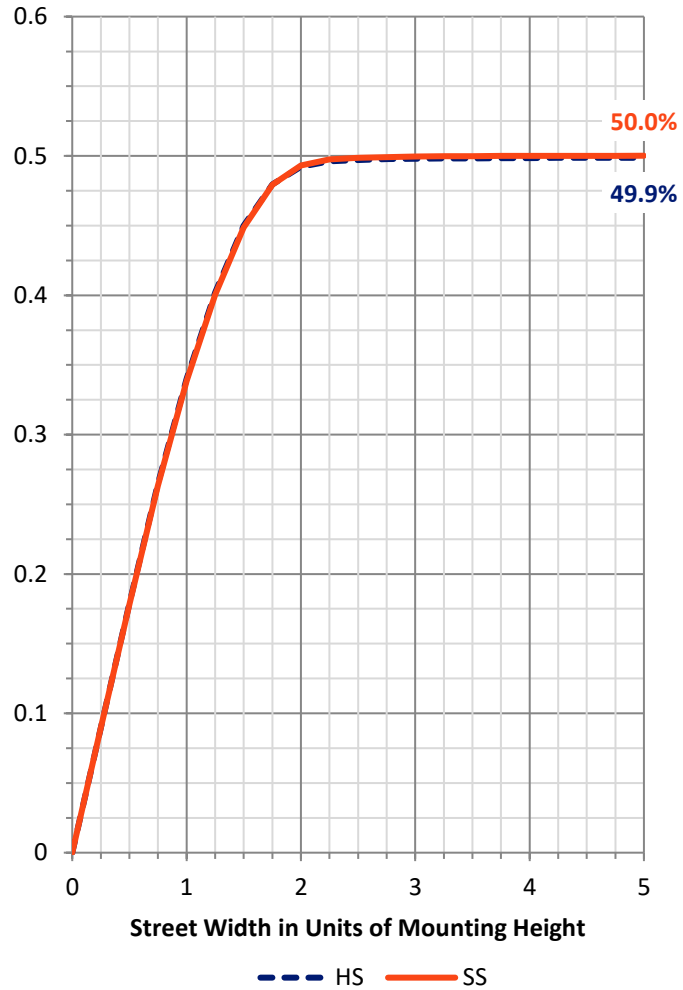
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3025.5	0.0	3025.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3025.5	0.0	3025.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6051.0	0.0	6051.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.1	1.3
10°-20°	236.9	3.9
20°-30°	448.0	7.4
30°-40°	883.6	14.6
40°-50°	1398.4	23.1
50°-60°	2055.5	34.0
60°-70°	917.5	15.2
70°-80°	30.7	0.5
80°-90°	0.2	0.0
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°	6051.0	100.0
0°-180°	6051.0	100.0

Coefficient of Utilization



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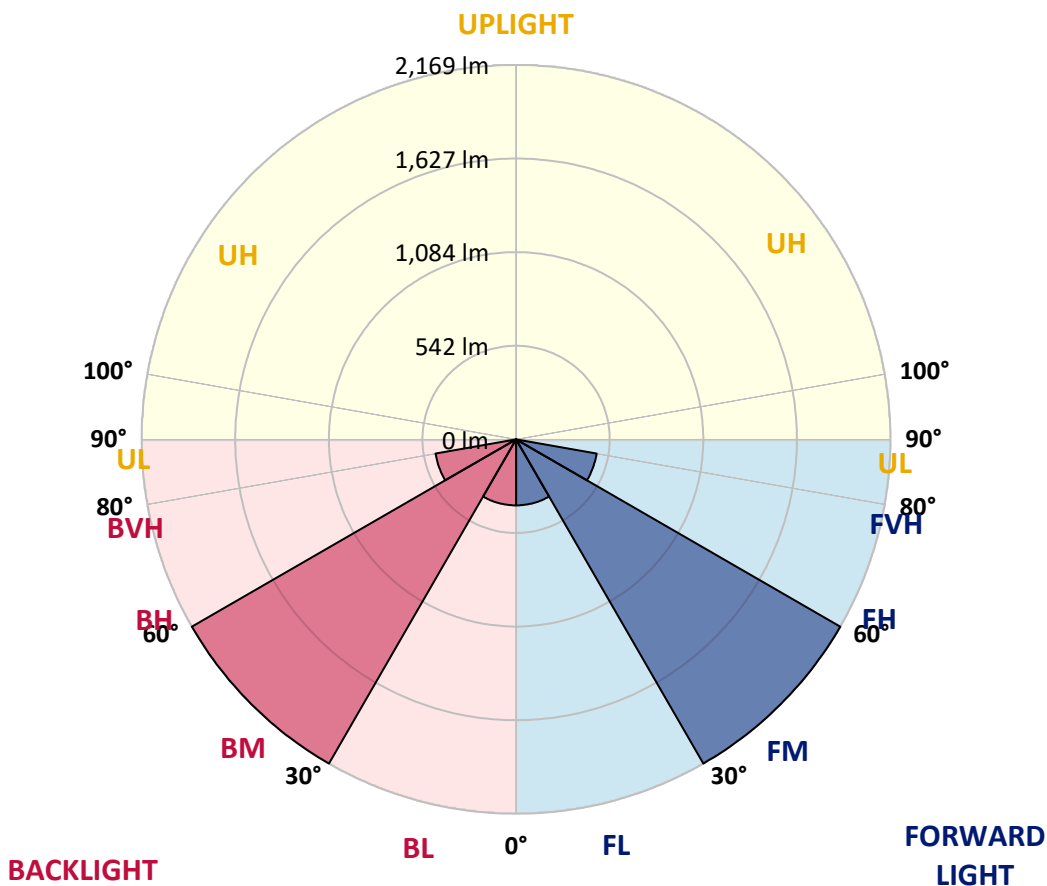
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	382.5	6.3			
FM (30°-60°)	2168.8	35.8			
FH (60°-80°)	474.1	7.8			G0/660
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	382.5	6.3	B1/500		
BM (30°-60°)	2168.8	35.8	B2/2500		
BH (60°-80°)	474.1	7.8	B1/500		G0/660
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	858.1	858.1	858.1	858.1	858.1	858.1	858.1	858.1	858.1	858.1	858.1
2.5°	849.9	851.5	853.2	854.0	854.8	857.3	858.1	855.6	855.6	850.7	856.5
5°	845.7	847.4	849.0	848.2	848.2	848.2	847.4	844.1	843.3	838.3	844.1
7.5°	838.3	840.0	840.0	837.5	835.9	835.9	835.0	830.9	830.1	825.1	830.9
10°	832.6	833.4	832.6	827.6	824.3	824.3	823.5	821.8	822.7	819.4	824.3
12.5°	835.9	836.7	833.4	826.8	822.7	821.8	819.4	816.9	819.4	818.5	823.5
15°	846.6	847.4	841.6	833.4	830.1	830.1	823.5	816.9	820.2	821.0	826.8
17.5°	859.8	859.8	852.3	844.9	845.7	845.7	835.0	823.5	824.3	827.6	833.4
20°	875.4	875.4	868.0	866.4	872.1	873.0	859.8	841.6	837.5	840.0	846.6
22.5°	903.4	903.4	897.7	901.8	915.0	919.1	899.3	873.8	863.9	865.5	872.1
25°	947.1	947.1	945.5	955.4	974.3	983.4	957.0	923.2	906.7	904.3	911.7
27.5°	1020.5	1021.3	1018.9	1033.7	1057.6	1068.3	1032.0	987.5	967.7	963.6	971.0
30°	1115.3	1115.3	1116.1	1136.7	1168.1	1182.1	1134.3	1082.3	1059.2	1046.1	1055.9
32.5°	1220.8	1222.5	1230.7	1265.3	1320.6	1349.4	1279.3	1206.8	1169.7	1155.7	1166.4
35°	1394.7	1379.1	1369.2	1394.7	1474.7	1512.6	1422.8	1337.9	1309.8	1308.2	1335.4
37.5°	1567.0	1558.0	1537.3	1563.7	1635.4	1652.8	1553.8	1482.9	1463.2	1473.9	1501.1
40°	1703.9	1687.4	1660.2	1684.9	1778.9	1796.2	1674.2	1604.1	1596.7	1620.6	1657.7
42.5°	1811.8	1788.8	1752.5	1758.3	1834.1	1846.5	1738.5	1685.7	1690.7	1720.3	1762.4
45°	1860.5	1842.3	1810.2	1807.7	1855.5	1856.4	1771.5	1744.3	1757.4	1780.5	1813.5
47.5°	1881.1	1872.8	1854.7	1850.6	1877.8	1871.2	1818.4	1806.9	1819.3	1825.9	1844.8
50°	1932.2	1932.2	1934.7	1938.0	1966.0	1959.4	1922.3	1909.1	1893.5	1870.4	1876.1
52.5°	2075.6	2081.4	2105.3	2131.7	2182.8	2204.2	2144.0	2067.4	1992.4	1942.1	1942.1
55°	2334.5	2340.2	2368.3	2412.8	2506.7	2557.9	2417.7	2248.7	2145.7	2077.3	2086.3
57.5°	2477.1	2483.7	2541.4	2661.7	2843.9	2930.4	2629.6	2379.0	2234.7	2156.4	2163.0
58°	2468.0	2472.1	2537.2	2678.2	2881.0	2974.1	2644.4	2374.9	2223.2	2143.2	2151.5
60°	2192.7	2186.9	2290.8	2491.9	2777.9	2906.5	2496.9	2167.9	1991.5	1909.9	1914.1
62.5°	1433.5	1436.8	1526.6	1736.8	1959.4	2080.6	1744.3	1499.4	1357.6	1308.2	1295.8
65°	598.5	587.7	643.0	760.0	893.6	961.2	826.0	699.0	611.6	578.7	587.7
67.5°	154.1	150.0	153.3	192.1	234.9	277.8	233.3	178.1	155.0	156.6	156.6
70°	87.4	82.4	66.8	61.8	60.2	60.2	60.2	60.2	69.2	81.6	84.1
72.5°	65.9	61.8	48.6	42.0	37.1	34.6	36.3	42.0	50.3	61.0	62.6
75°	33.0	33.0	29.7	28.0	24.7	23.1	23.9	26.4	30.5	34.6	33.8
77.5°	6.6	7.4	8.2	9.9	8.2	8.2	8.2	9.9	9.9	10.7	9.9
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.0	0.8	0.8	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)