

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: P636971

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636971
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-830-U-5NQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW 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: 8091.1 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

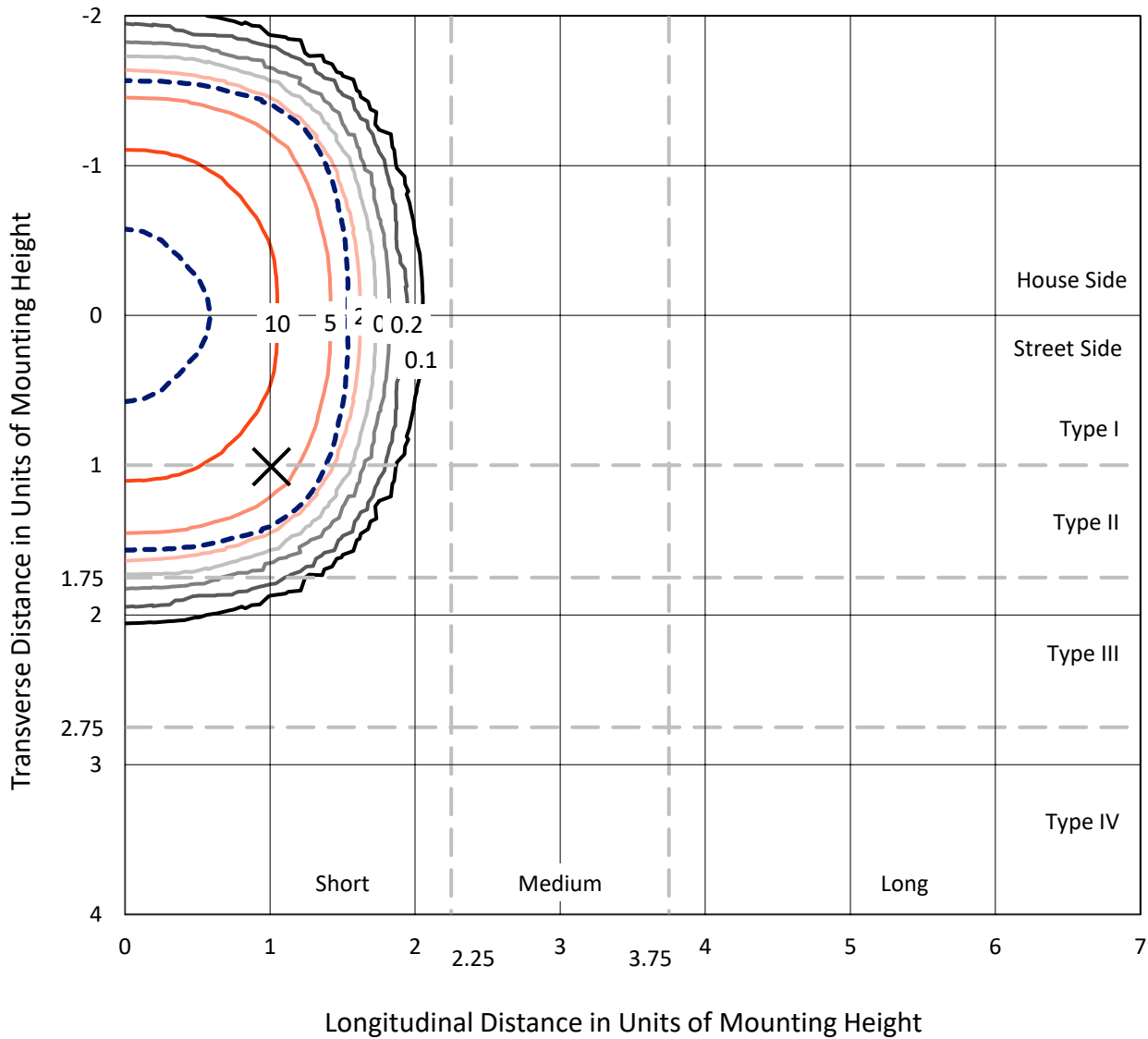
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P636971
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Iso-Footcandle Lines of Horizontal Illumination

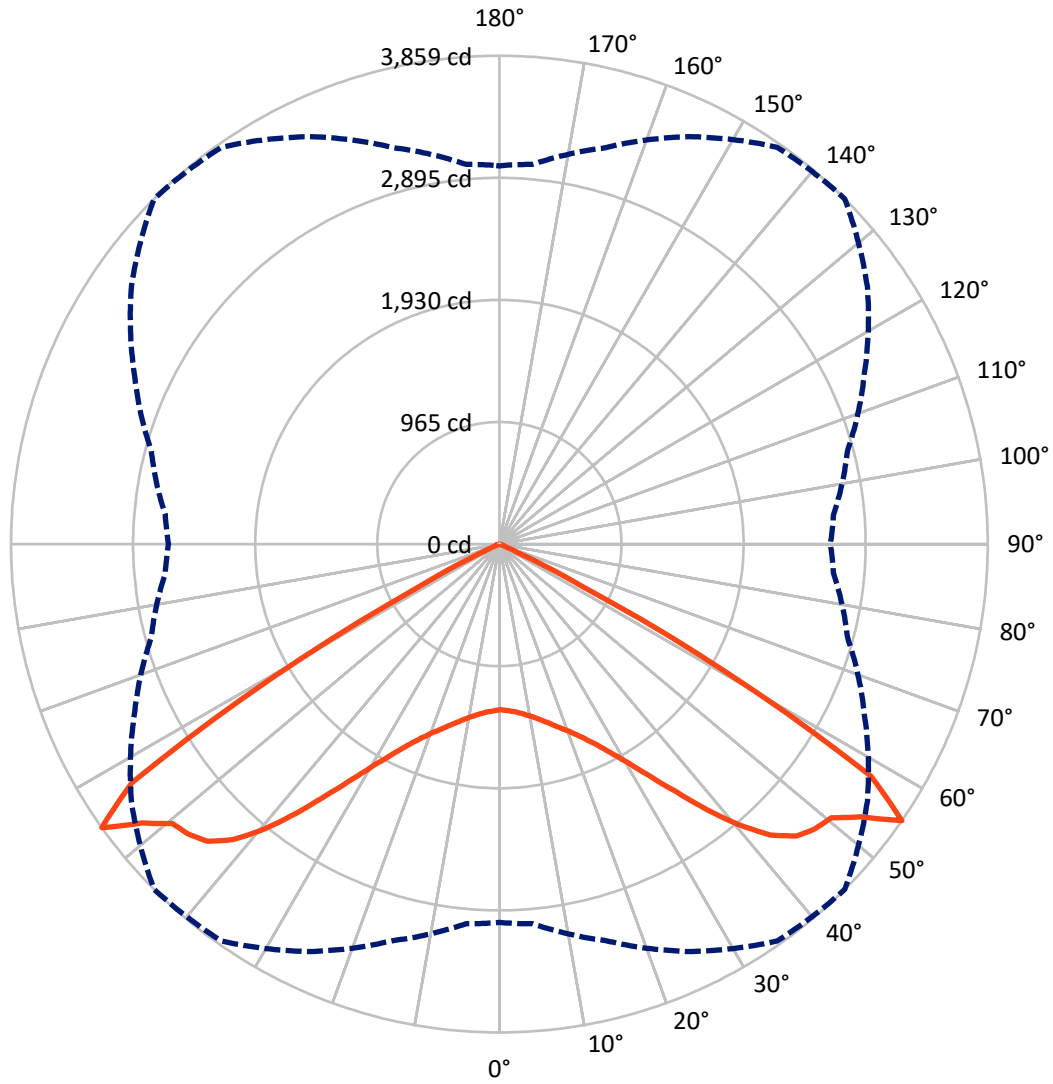
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.2 fc
 Type V - Short - N/A

REPORT NUMBER: P636971
CATALOG NUMBER: GWS-SA4B-830-U-5NQ-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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CATALOG NUMBER: GWS-SA4B-830-U-5NQ-W-GRSBK

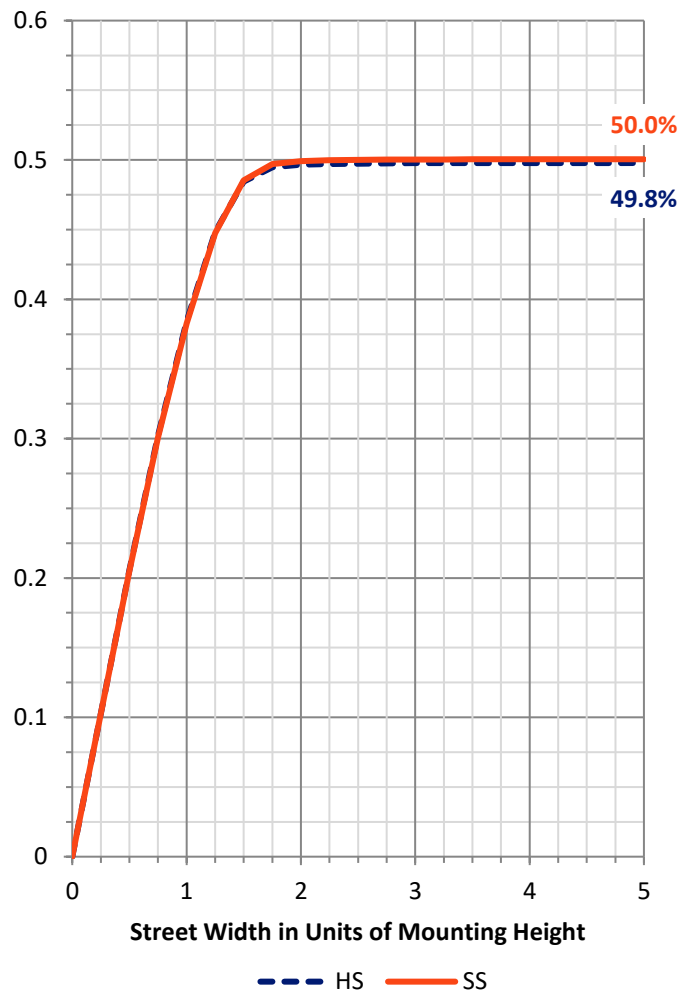
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4045.5	0.0	4045.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4045.5	0.0	4045.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8091.1	0.0	8091.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.2	1.6
10°-20°	415.5	5.1
20°-30°	804.6	9.9
30°-40°	1441.5	17.8
40°-50°	2416.8	29.9
50°-60°	2587.1	32.0
60°-70°	284.3	3.5
70°-80°	12.5	0.2
80°-90°	0.6	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°	8091.1	100.0
0°-180°	8091.1	100.0

Coefficient of Utilization



REPORT NUMBER: P636971

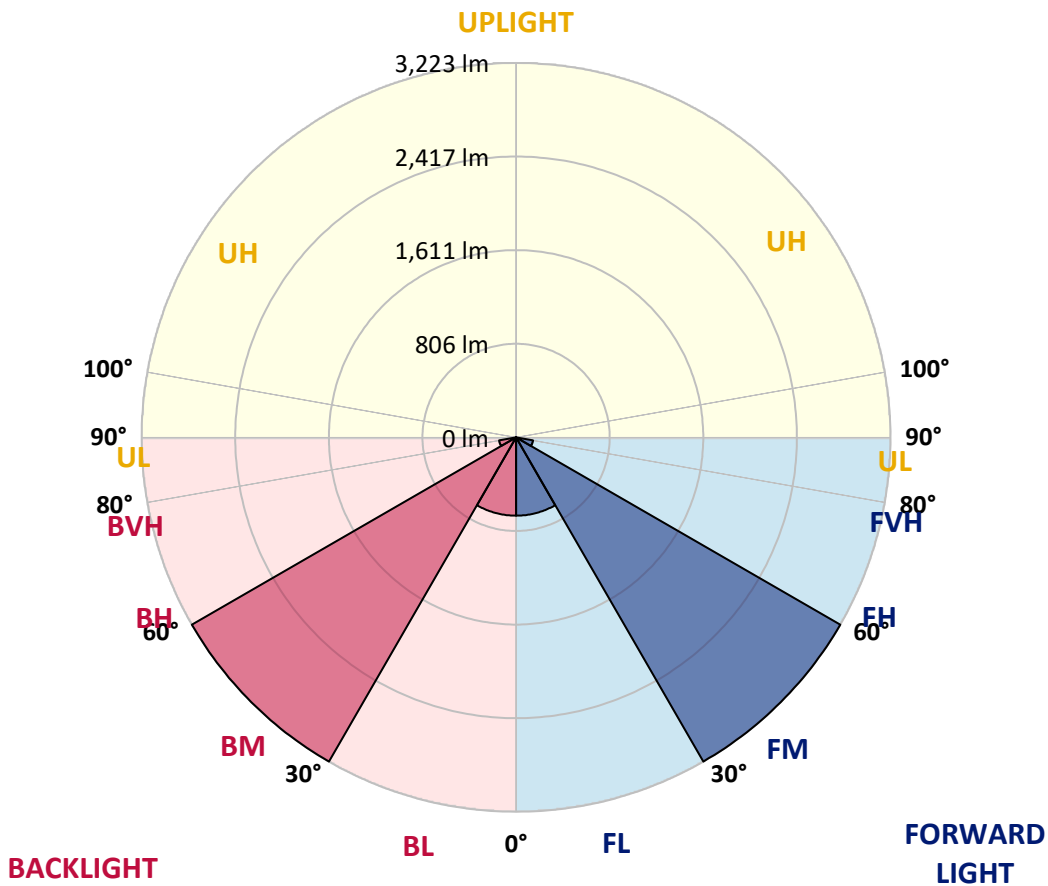
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	674.1	8.3			
FM (30°-60°)	3222.7	39.8			
FH (60°-80°)	148.4	1.8			G0/660
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	674.1	8.3	B2/1000		
BM (30°-60°)	3222.7	39.8	B3/5000		
BH (60°-80°)	148.4	1.8	B1/500		G0/660
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0

Type V Short





REPORT NUMBER: P636971

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1308.2	1308.2	1308.2	1308.2	1308.2	1308.2	1308.2	1308.2	1308.2	1308.2	1308.2
2.5°	1305.7	1305.7	1309.0	1311.5	1311.5	1318.1	1315.6	1313.1	1313.1	1309.8	1316.4
5°	1324.7	1323.8	1327.1	1328.8	1325.5	1332.1	1328.0	1325.5	1323.8	1320.5	1327.1
7.5°	1345.3	1346.1	1346.9	1350.2	1348.6	1355.2	1351.9	1346.9	1345.3	1340.3	1346.9
10°	1370.0	1370.0	1371.6	1375.8	1376.6	1384.8	1381.5	1375.8	1370.8	1365.9	1372.5
12.5°	1401.3	1402.1	1404.6	1410.4	1413.7	1422.8	1417.8	1406.3	1398.8	1393.1	1400.5
15°	1446.7	1445.8	1449.1	1457.4	1461.5	1468.1	1460.7	1445.0	1435.9	1429.3	1434.3
17.5°	1496.1	1496.1	1497.8	1506.0	1511.8	1521.7	1512.6	1493.6	1485.4	1476.3	1481.3
20°	1550.5	1553.0	1554.6	1560.4	1570.3	1580.2	1572.8	1553.8	1544.8	1533.2	1539.0
22.5°	1622.2	1619.8	1620.6	1630.5	1644.5	1654.4	1648.6	1626.4	1610.7	1601.6	1604.9
25°	1702.2	1701.4	1703.8	1718.7	1734.3	1745.1	1736.8	1708.0	1692.3	1676.6	1683.2
27.5°	1800.3	1801.1	1802.8	1820.9	1845.6	1861.3	1840.7	1811.8	1790.4	1769.8	1774.7
30°	1916.5	1914.9	1919.8	1944.5	1980.8	2005.5	1981.6	1941.2	1910.7	1891.0	1893.4
32.5°	2040.2	2041.8	2055.0	2094.6	2142.4	2186.1	2137.4	2083.8	2044.3	2007.2	2012.1
35°	2173.7	2177.8	2207.5	2266.0	2344.3	2402.9	2335.3	2247.1	2191.0	2143.2	2144.8
37.5°	2331.1	2341.0	2382.2	2469.6	2581.7	2660.0	2561.1	2444.1	2371.5	2312.2	2308.1
40°	2538.0	2549.6	2605.6	2709.5	2845.5	2917.2	2802.6	2682.3	2592.4	2528.1	2518.3
42.5°	2775.4	2790.3	2851.3	2957.6	3093.6	3142.3	3030.2	2928.8	2848.0	2772.1	2768.8
45°	3043.3	3051.6	3101.0	3182.6	3280.7	3292.3	3208.2	3152.1	3070.5	2999.7	2993.9
47.5°	3294.8	3303.0	3336.8	3378.8	3401.9	3360.7	3345.9	3321.1	3215.6	3128.2	3110.1
50°	3486.0	3492.6	3534.6	3551.1	3486.8	3399.4	3428.3	3375.5	3261.0	3162.9	3134.8
52.5°	3472.8	3489.3	3597.3	3691.2	3650.9	3580.0	3502.5	3388.7	3210.7	3076.3	3041.7
55°	2989.8	3012.0	3243.6	3552.8	3828.9	3859.4	3549.5	3182.6	2848.0	2651.0	2615.5
57.5°	1921.5	1927.2	2210.0	2643.6	3265.9	3462.1	2943.6	2399.6	1983.3	1766.5	1751.7
60°	706.4	694.9	908.4	1267.8	1881.1	2088.8	1732.7	1213.4	865.5	712.2	699.8
62.5°	169.8	171.5	212.7	319.0	590.2	730.3	577.0	322.3	205.3	172.3	170.6
65°	85.7	84.1	84.9	91.5	126.1	150.8	123.6	87.4	84.1	84.9	84.1
67.5°	55.2	54.4	56.1	56.9	56.1	52.8	51.9	53.6	53.6	54.4	52.8
70°	33.8	33.0	34.6	37.1	35.4	31.3	33.0	34.6	33.0	32.1	32.1
72.5°	18.1	18.1	19.8	21.4	19.8	18.1	18.1	19.0	18.1	18.1	18.1
75°	8.2	8.2	9.1	9.9	8.2	8.2	8.2	8.2	8.2	8.2	8.2
77.5°	2.5	2.5	3.3	3.3	2.5	2.5	2.5	2.5	3.3	3.3	3.3
80°	0.8	1.6	1.6	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
85°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
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)