

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: P636970

Luminaire Tested: GWS-SA4B-830-U-5MQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636970
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-830-U-5MQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11907.5 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

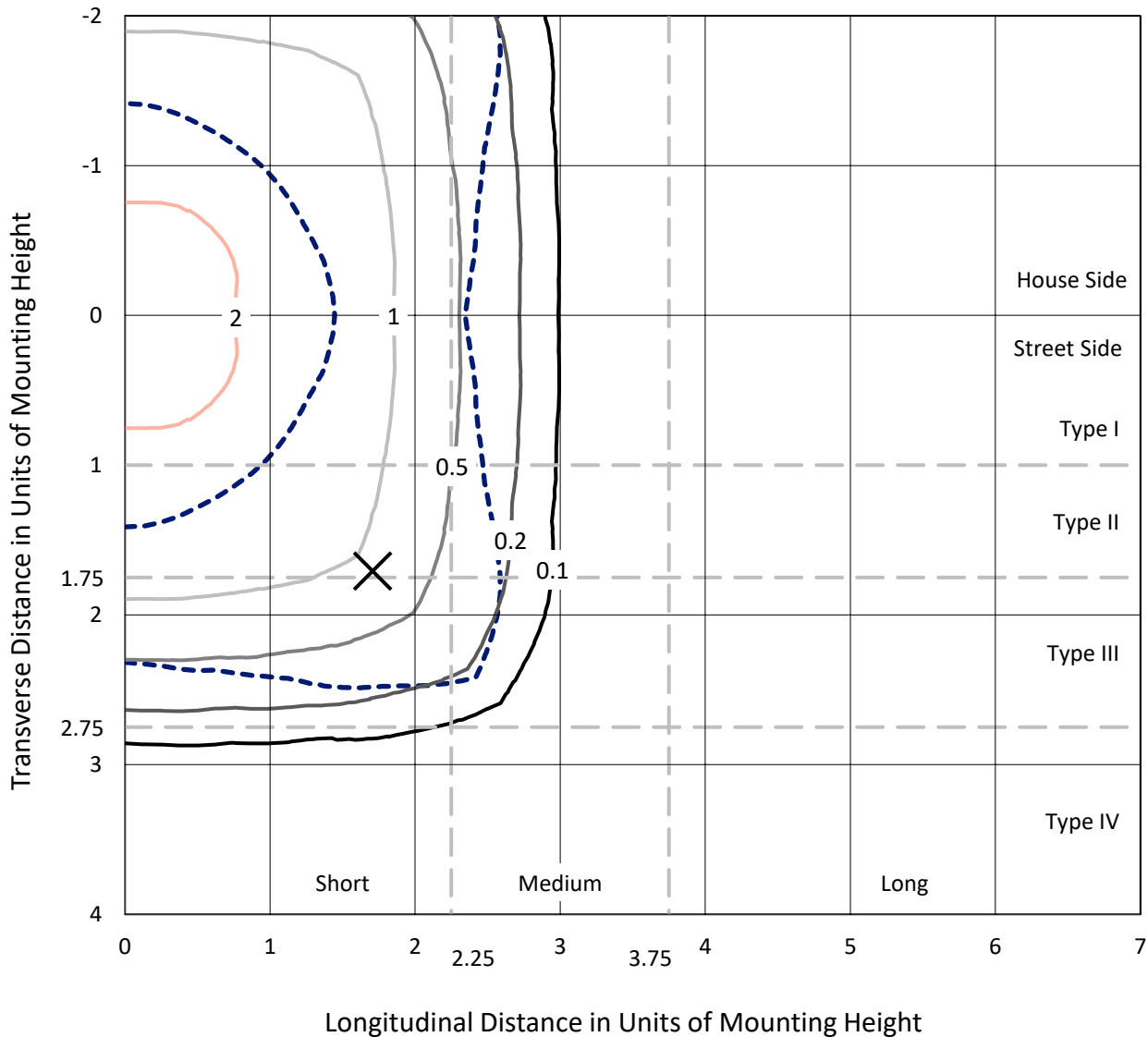
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

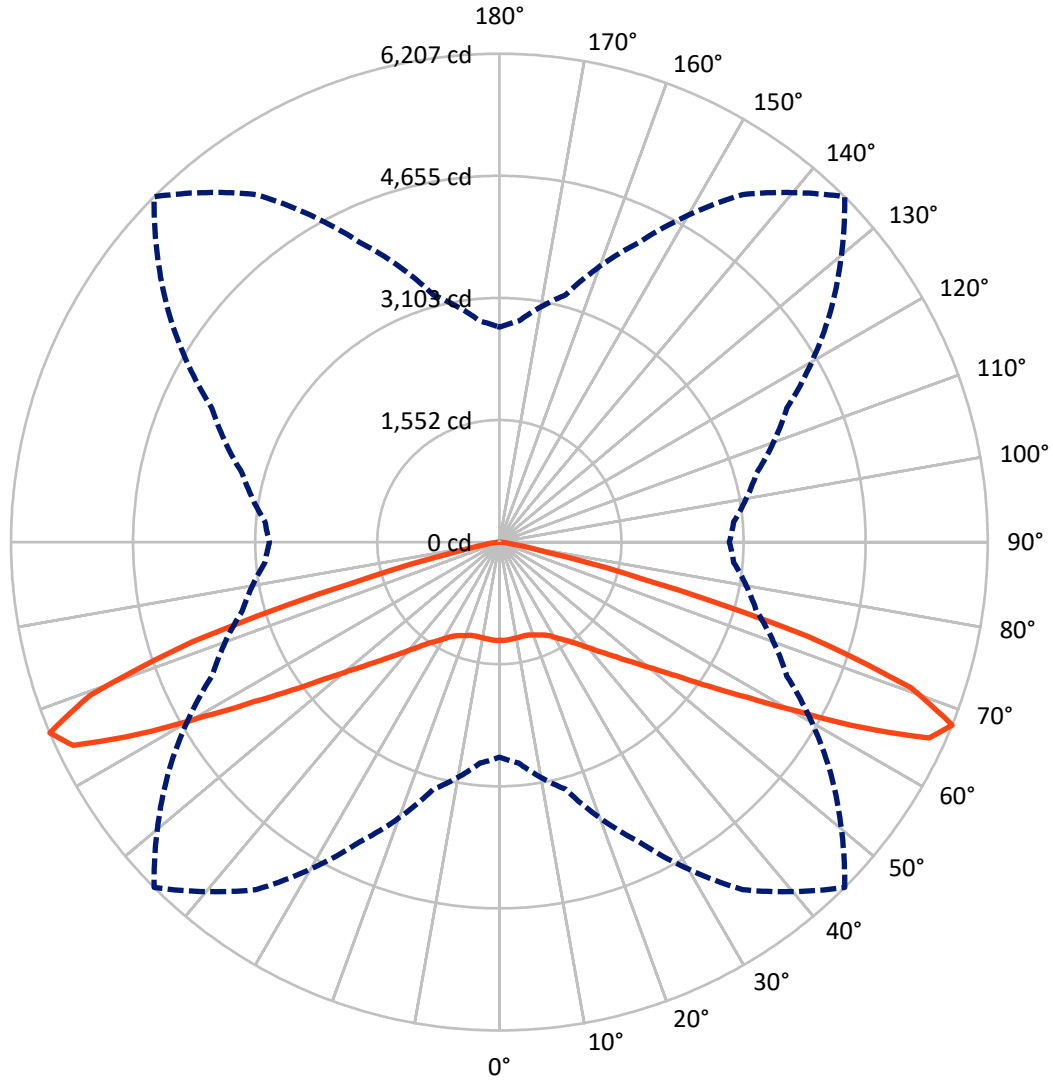
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5953.7	0.0	5953.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5953.7	0.0	5953.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	11907.5	0.0	11907.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.0	1.0
10°-20°	346.7	2.9
20°-30°	597.9	5.0
30°-40°	972.2	8.2
40°-50°	1637.0	13.7
50°-60°	2900.5	24.4
60°-70°	4146.1	34.8
70°-80°	1137.9	9.6
80°-90°	51.0	0.4
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°	11907.5	100.0
0°-180°	11907.5	100.0

Coefficient of Utilization



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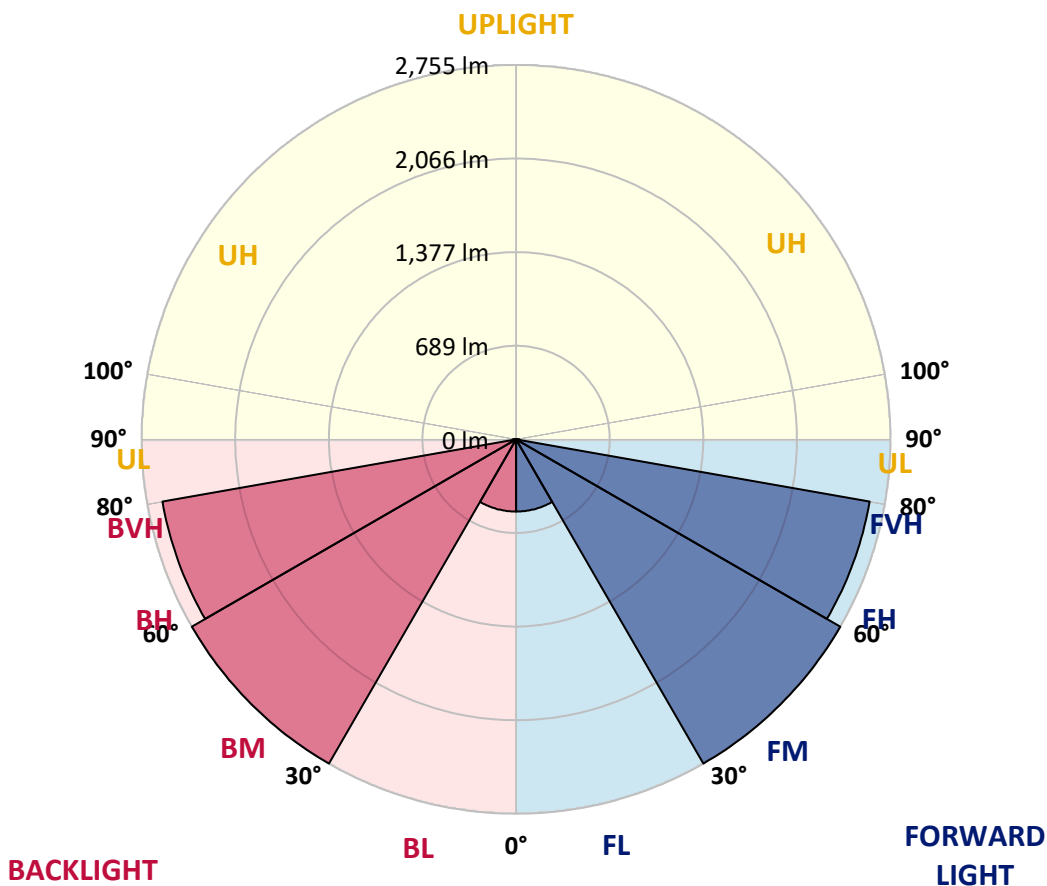
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	531.3	4.5			
FM (30°-60°)	2754.9	23.1			
FH (60°-80°)	2642.0	22.2			G2/5000
FVH (80°-90°)	25.5	0.2			G1/100
BL (0°-30°)	531.3	4.5	B2/1000		
BM (30°-60°)	2754.9	23.1	B3/5000		
BH (60°-80°)	2642.0	22.2	B4/5000		G2/5000
BVH (80°-90°)	25.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1
2.5°	1238.9	1238.0	1242.2	1244.6	1243.8	1249.6	1248.7	1247.1	1247.1	1244.6	1251.2
5°	1238.9	1238.0	1241.3	1242.2	1240.5	1245.5	1243.8	1242.2	1242.2	1238.9	1244.6
7.5°	1232.3	1233.1	1235.6	1237.2	1235.6	1239.7	1237.2	1233.9	1233.1	1229.8	1235.6
10°	1219.9	1220.7	1223.2	1227.3	1228.1	1235.6	1231.4	1225.7	1223.2	1219.9	1225.7
12.5°	1212.5	1213.3	1215.8	1220.7	1222.4	1232.3	1228.1	1219.1	1215.0	1211.7	1217.4
15°	1210.8	1211.7	1215.0	1219.9	1222.4	1232.3	1228.1	1217.4	1211.7	1207.5	1212.5
17.5°	1210.8	1212.5	1217.4	1224.8	1229.8	1239.7	1234.7	1222.4	1214.1	1206.7	1211.7
20°	1211.7	1214.1	1221.5	1232.3	1244.6	1258.6	1252.0	1235.6	1224.0	1215.0	1218.3
22.5°	1219.1	1223.2	1232.3	1246.3	1264.4	1280.9	1275.1	1252.9	1236.4	1224.0	1227.3
25°	1244.6	1246.3	1257.8	1275.9	1293.3	1307.3	1301.5	1280.9	1260.3	1245.5	1249.6
27.5°	1290.0	1294.1	1304.0	1322.9	1337.8	1345.2	1344.4	1330.4	1309.7	1296.6	1299.9
30°	1344.4	1348.5	1361.7	1383.1	1397.9	1406.2	1403.7	1393.0	1374.0	1355.9	1359.2
32.5°	1407.8	1409.5	1425.1	1449.0	1464.7	1477.1	1468.8	1457.3	1433.4	1412.0	1413.6
35°	1488.6	1491.1	1507.6	1529.8	1542.2	1552.1	1550.4	1538.9	1513.3	1490.3	1496.0
37.5°	1590.0	1591.6	1606.5	1634.5	1644.4	1651.8	1653.5	1647.7	1621.3	1591.6	1597.4
40°	1716.1	1716.9	1733.4	1758.1	1768.9	1773.8	1774.6	1775.4	1748.2	1726.0	1724.3
42.5°	1862.8	1866.9	1890.0	1913.9	1918.9	1916.4	1924.6	1932.9	1906.5	1876.0	1878.5
45°	2038.4	2040.9	2072.2	2098.6	2089.5	2081.2	2096.9	2113.4	2089.5	2049.9	2038.4
47.5°	2246.1	2251.0	2284.8	2311.2	2296.4	2281.5	2307.1	2324.4	2285.7	2243.6	2232.9
50°	2481.0	2484.3	2532.1	2565.1	2547.8	2520.6	2552.7	2570.9	2518.9	2467.0	2443.9
52.5°	2758.8	2752.2	2815.7	2873.4	2862.6	2827.2	2853.6	2856.9	2779.4	2706.0	2683.0
55°	3097.6	3091.0	3154.4	3217.9	3244.3	3235.2	3222.8	3203.1	3088.5	3010.2	2988.8
57.5°	3492.4	3471.8	3560.8	3646.5	3704.2	3720.7	3667.9	3621.8	3531.1	3434.7	3410.0
60°	3859.2	3858.3	3999.3	4147.7	4305.9	4371.9	4238.3	4113.0	3909.5	3733.9	3698.4
62.5°	3962.2	3979.5	4210.3	4577.9	4968.6	5201.9	4849.9	4435.3	4042.2	3777.6	3730.6
65°	3708.3	3751.2	4079.2	4659.5	5431.0	6001.4	5206.8	4442.7	3894.6	3564.9	3515.5
67.5°	2733.2	2819.0	3253.3	4204.5	5391.5	6206.7	5143.4	4031.4	3382.8	2990.4	2922.0
70°	1348.5	1430.1	1774.6	2766.2	4436.2	5548.1	4450.2	3038.2	2284.8	1907.3	1844.7
72.5°	496.2	529.2	664.4	1183.6	2448.0	4098.2	3043.2	1697.1	1107.0	881.1	839.1
75°	243.2	248.9	269.5	397.3	903.4	1928.8	1430.1	651.2	407.2	354.4	342.9
77.5°	155.0	157.4	167.3	189.6	290.1	607.5	433.6	257.2	199.5	191.2	191.2
80°	86.5	89.0	102.2	117.9	136.0	208.5	155.8	154.1	131.1	114.6	112.1
82.5°	41.2	45.3	65.1	64.3	71.7	104.7	91.5	83.2	84.1	63.5	60.2
85°	19.0	19.0	25.6	30.5	32.1	35.4	42.0	47.8	47.0	32.1	34.6
87.5°	9.1	9.1	9.1	8.2	7.4	6.6	9.1	14.8	21.4	14.8	14.0
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)