

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P636004

Luminaire Tested: GWS-SA3E-830-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3E-830-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9367.7 lumens
Efficiency: N/A
Efficacy: 58.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

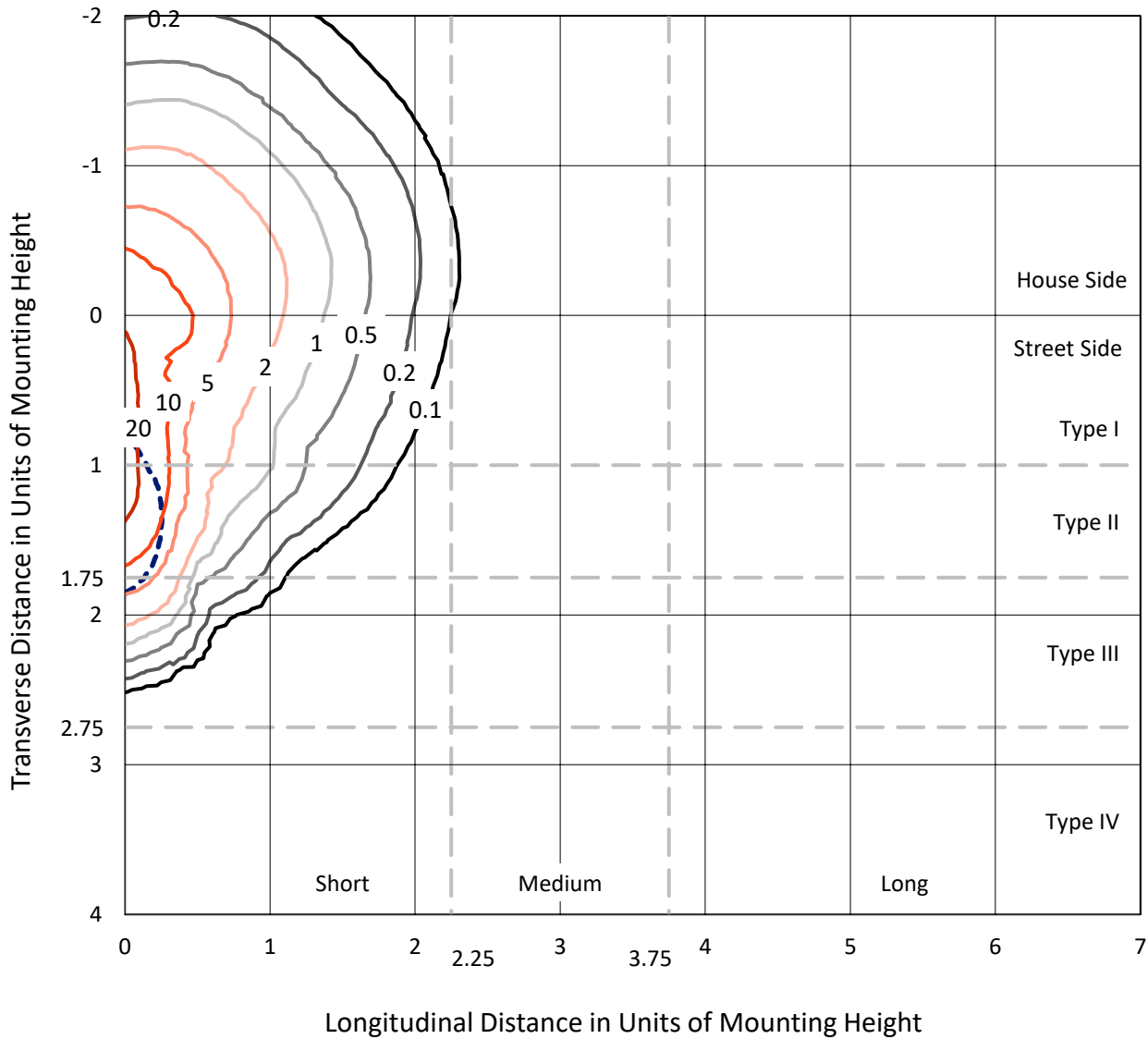
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

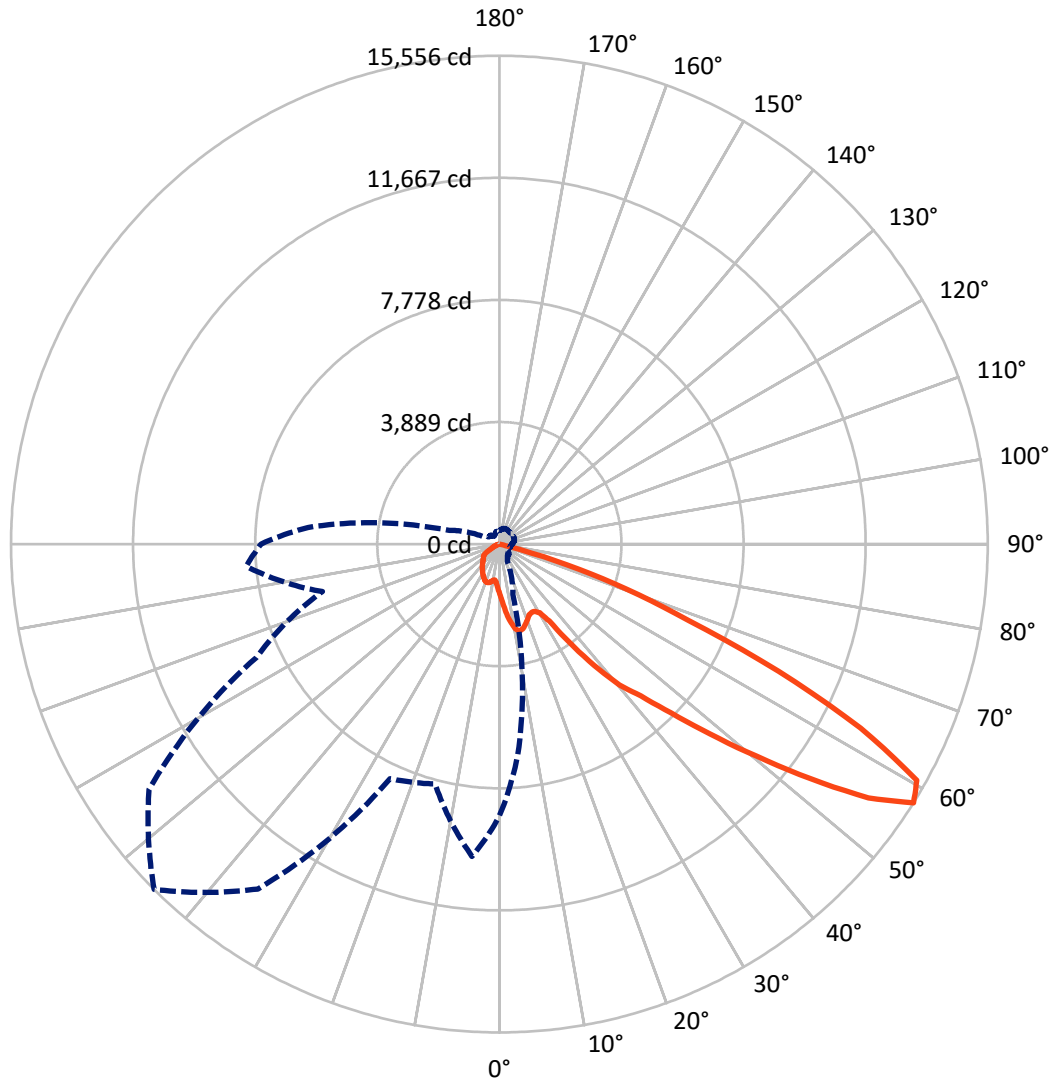
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2018.1	0.0	2018.1
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	7349.6	0.0	7349.6
	% Fixture	78.5	0.0	78.5
Total	Lumens	9367.7	0.0	9367.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.3	1.7
10°-20°	517.7	5.5
20°-30°	840.1	9.0
30°-40°	1289.4	13.8
40°-50°	2059.2	22.0
50°-60°	2883.3	30.8
60°-70°	1478.3	15.8
70°-80°	142.3	1.5
80°-90°	0.0	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°	9367.7	100.0
0°-180°	9367.7	100.0

Coefficient of Utilization



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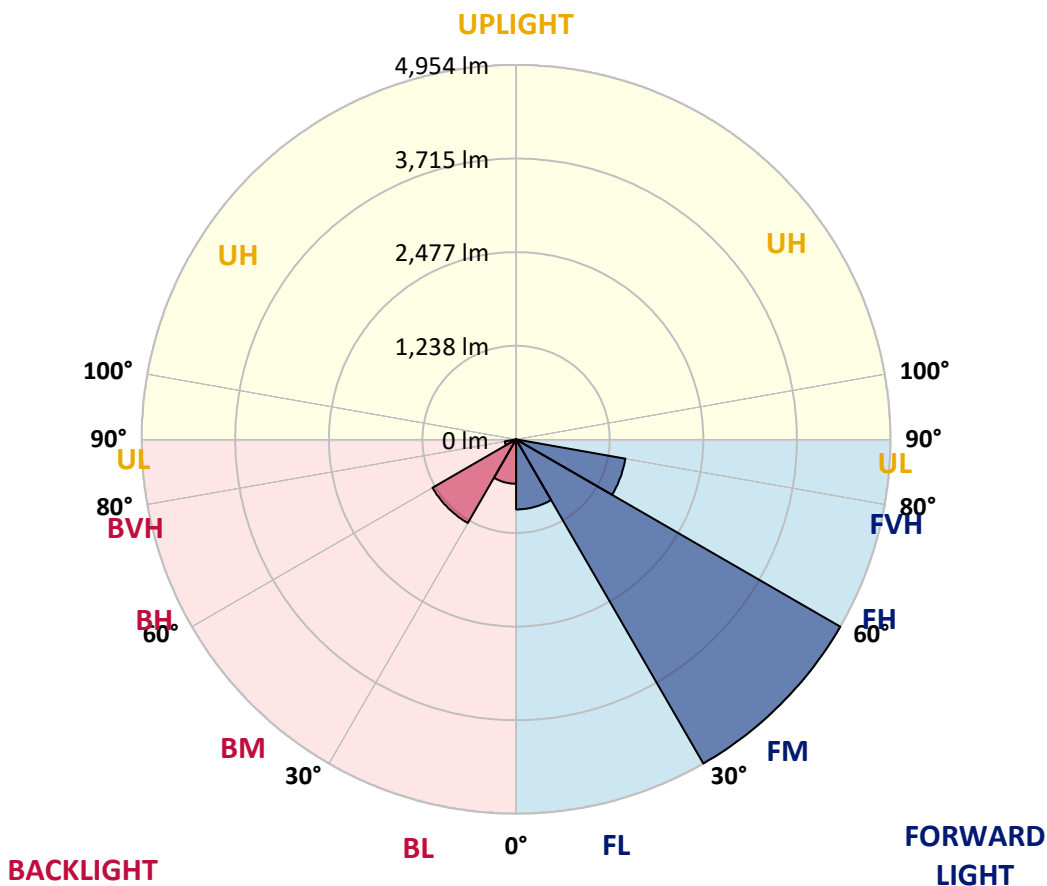
CATALOG NUMBER: GWS-SA3E-830-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	927.5	9.9			
FM (30°-60°)	4953.9	52.9			
FH (60°-80°)	1468.3	15.7			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	587.6	6.3	B2/1000		
BM (30°-60°)	1278.1	13.6	B2/2500		
BH (60°-80°)	152.4	1.6	B1/500		G1/500
BVH (80°-90°)	0.0	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1591.7	1591.7	1591.7	1591.7	1591.7	1591.7	1591.7	1591.7	1591.7	1591.7	1591.7
2.5°	1768.3	1764.5	1752.0	1709.4	1683.1	1641.8	1611.7	1572.9	1530.3	1504.0	1477.7
5°	1956.1	1946.1	1912.3	1814.6	1739.5	1658.1	1593.0	1521.6	1445.2	1395.1	1348.8
7.5°	2136.5	2121.4	2076.4	1911.1	1797.1	1680.6	1588.0	1484.0	1376.3	1301.2	1243.6
10°	2313.1	2279.2	2207.9	2005.0	1850.9	1710.7	1601.7	1482.8	1356.3	1261.1	1197.2
12.5°	2458.3	2433.3	2335.6	2093.9	1896.0	1716.9	1582.9	1472.7	1387.6	1323.7	1264.9
15°	2583.6	2556.0	2463.3	2174.0	1934.8	1691.9	1504.0	1407.6	1421.4	1446.4	1396.3
17.5°	2698.8	2670.0	2569.8	2240.4	1949.9	1630.5	1393.8	1347.5	1423.9	1517.8	1499.0
20°	2817.7	2785.2	2662.5	2294.3	1944.9	1534.1	1282.4	1296.2	1403.9	1511.6	1521.6
22.5°	2956.8	2922.9	2780.2	2363.1	1941.1	1418.9	1186.0	1251.1	1366.3	1457.7	1475.2
25°	3140.8	3100.8	2944.2	2464.6	1951.1	1313.7	1117.1	1207.2	1302.4	1385.1	1395.1
27.5°	3383.8	3332.4	3133.3	2589.8	1972.4	1231.0	1087.0	1147.1	1221.0	1294.9	1303.7
30°	3700.6	3635.5	3350.0	2698.8	1962.4	1173.4	1067.0	1087.0	1130.9	1191.0	1192.2
32.5°	4071.3	3982.4	3592.9	2792.7	1876.0	1130.9	1039.4	1025.7	1035.7	1082.0	1090.8
35°	4507.1	4391.9	3860.9	2881.6	1718.2	1048.2	989.3	943.0	939.2	961.8	983.1
37.5°	5006.8	4869.1	4199.1	2995.6	1531.6	961.8	915.5	869.1	849.1	860.4	892.9
40°	5467.7	5314.9	4552.2	3133.3	1341.2	884.1	829.0	781.5	757.7	761.4	801.5
42.5°	6008.7	5850.9	4984.3	3313.7	1183.5	831.5	738.9	690.0	658.7	676.3	722.6
45°	6830.2	6651.1	5614.2	3470.2	1058.2	819.0	660.0	591.1	576.1	606.1	661.2
47.5°	7952.3	7733.1	6479.6	3565.4	951.8	830.3	604.9	511.0	514.7	548.5	603.6
50°	9065.6	8828.9	7480.2	3440.1	864.1	807.8	577.3	448.3	472.1	502.2	552.3
52.5°	9830.8	9522.7	7967.3	3078.2	784.0	722.6	574.8	389.5	434.6	444.6	487.2
55°	9860.8	9481.4	7718.1	2427.0	675.0	609.9	548.5	340.6	393.2	397.0	433.3
57.5°	8643.6	8300.4	6745.0	1666.9	599.9	447.1	437.1	298.1	323.1	354.4	377.0
60°	6576.0	6284.2	5044.4	763.9	455.8	284.3	299.3	256.7	241.7	288.0	310.6
62.5°	4027.5	3840.9	3025.6	338.1	290.5	151.5	181.6	204.1	181.6	199.1	217.9
65°	1599.2	1516.6	1148.4	144.0	119.0	76.4	82.7	119.0	127.7	140.3	157.8
67.5°	278.0	263.0	192.9	63.9	48.8	46.3	40.1	55.1	77.6	86.4	100.2
70°	36.3	35.1	31.3	26.3	25.0	22.5	17.5	35.1	52.6	55.1	63.9
72.5°	8.8	7.5	7.5	6.3	7.5	2.5	2.5	18.8	37.6	38.8	45.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	23.8	26.3	31.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1591.7	1591.7	1591.7	1591.7	1591.7	1591.7	1591.7	1591.7	1591.7	1591.7	1591.7
2.5°	1456.5	1431.4	1422.6	1410.1	1393.8	1398.9	1376.3	1368.8	1380.1	1395.1	1391.3
5°	1323.7	1296.2	1277.4	1248.6	1243.6	1232.3	1224.8	1214.8	1227.3	1244.8	1248.6
7.5°	1218.5	1194.7	1175.9	1167.2	1160.9	1155.9	1140.9	1133.4	1133.4	1140.9	1147.1
10°	1173.4	1155.9	1152.1	1154.6	1164.7	1163.4	1149.6	1139.6	1127.1	1120.8	1128.3
12.5°	1236.0	1207.2	1202.2	1203.5	1216.0	1214.8	1199.7	1187.2	1184.7	1187.2	1211.0
15°	1342.5	1298.7	1266.1	1259.8	1266.1	1263.6	1252.3	1244.8	1248.6	1284.9	1325.0
17.5°	1437.7	1370.0	1311.2	1288.6	1287.4	1283.6	1272.4	1269.9	1288.6	1356.3	1415.1
20°	1465.2	1398.9	1314.9	1286.1	1279.9	1276.1	1263.6	1267.4	1291.2	1372.6	1422.6
22.5°	1428.9	1365.0	1277.4	1248.6	1243.6	1242.3	1229.8	1234.8	1254.8	1326.2	1367.5
25°	1360.0	1306.2	1214.8	1189.7	1189.7	1187.2	1175.9	1178.4	1191.0	1253.6	1293.7
27.5°	1276.1	1224.8	1148.4	1123.3	1127.1	1130.9	1117.1	1113.3	1123.3	1182.2	1206.0
30°	1179.7	1143.4	1083.3	1060.7	1059.5	1074.5	1055.7	1050.7	1064.5	1110.8	1115.8
32.5°	1085.8	1068.2	1025.7	1008.1	1009.4	1011.9	1001.9	1001.9	1014.4	1039.4	1038.2
35°	994.3	983.1	975.6	963.0	961.8	956.8	956.8	959.3	973.1	981.8	965.5
37.5°	906.7	918.0	926.7	914.2	904.2	904.2	904.2	915.5	928.0	924.2	896.7
40°	829.0	852.8	880.4	866.6	842.8	841.6	846.6	865.4	884.1	861.6	836.6
42.5°	762.7	792.7	831.5	824.0	797.7	794.0	797.7	821.5	836.6	807.8	780.2
45°	697.5	735.1	781.5	781.5	752.7	748.9	750.1	781.5	790.2	756.4	721.3
47.5°	642.4	683.8	732.6	732.6	708.8	701.3	707.6	740.1	746.4	698.8	666.2
50°	589.8	634.9	688.8	685.0	668.7	662.5	673.8	708.8	701.3	648.7	614.9
52.5°	523.5	571.1	644.9	648.7	639.9	641.2	655.0	677.5	656.2	592.4	563.5
55°	463.4	512.2	586.1	606.1	606.1	604.9	611.1	628.7	611.1	534.7	499.7
57.5°	398.2	439.6	500.9	505.9	509.7	495.9	504.7	528.5	519.7	454.6	434.6
60°	326.9	361.9	397.0	400.7	384.5	355.7	371.9	399.5	405.8	356.9	334.4
62.5°	231.7	265.5	306.8	306.8	290.5	261.7	283.0	306.8	298.1	248.0	234.2
65°	172.8	204.1	235.4	249.2	235.4	215.4	231.7	249.2	235.4	194.1	174.1
67.5°	111.5	132.7	151.5	162.8	165.3	162.8	170.3	165.3	149.0	121.5	110.2
70°	67.6	78.9	88.9	98.9	106.4	110.2	114.0	102.7	86.4	71.4	67.6
72.5°	48.8	58.9	67.6	75.1	83.9	86.4	86.4	78.9	63.9	50.1	46.3
75°	33.8	42.6	50.1	55.1	62.6	65.1	65.1	58.9	47.6	36.3	32.6
77.5°	1.3	8.8	8.8	7.5	10.0	12.5	12.5	15.0	13.8	10.0	8.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1591.7	1591.7	1591.7	1591.7	1591.7	1591.7	1591.7	1591.7	1591.7	1591.7	1591.7
2.5°	1398.9	1443.9	1456.5	1502.8	1544.1	1585.4	1635.5	1665.6	1710.7	1742.0	1759.5
5°	1261.1	1298.7	1343.7	1412.6	1484.0	1562.9	1658.1	1740.7	1844.7	1921.1	1946.1
7.5°	1160.9	1209.8	1262.3	1348.8	1446.4	1551.6	1685.6	1820.9	1979.9	2083.9	2150.3
10°	1142.1	1192.2	1262.3	1347.5	1450.2	1570.4	1734.5	1909.8	2108.9	2235.4	2310.5
12.5°	1232.3	1286.1	1316.2	1355.0	1432.7	1566.7	1777.1	2000.0	2234.2	2371.9	2452.1
15°	1365.0	1412.6	1363.8	1314.9	1365.0	1526.6	1800.9	2075.1	2344.4	2503.4	2586.1
17.5°	1456.5	1460.2	1353.8	1249.8	1263.6	1454.0	1809.6	2150.3	2462.1	2628.6	2715.1
20°	1447.7	1417.6	1309.9	1194.7	1152.1	1360.0	1799.6	2216.6	2581.1	2755.1	2840.3
22.5°	1380.1	1345.0	1253.6	1140.9	1058.2	1248.6	1782.1	2276.7	2690.0	2887.9	2968.0
25°	1298.7	1261.1	1186.0	1087.0	998.1	1140.9	1768.3	2359.4	2827.8	3060.7	3123.3
27.5°	1203.5	1170.9	1107.1	1035.7	973.1	1059.5	1764.5	2468.3	2994.3	3271.1	3314.9
30°	1110.8	1080.8	1030.7	989.3	963.0	1011.9	1752.0	2584.8	3193.4	3512.8	3560.4
32.5°	1021.9	991.8	960.5	954.3	955.5	994.3	1709.4	2700.0	3430.1	3863.4	3898.5
35°	945.5	910.4	897.9	912.9	940.5	964.3	1589.2	2795.2	3684.4	4245.4	4274.2
37.5°	872.9	837.8	836.6	872.9	902.9	918.0	1447.7	2889.1	4027.5	4633.6	4669.9
40°	806.5	771.4	784.0	827.8	851.6	859.1	1276.1	3031.9	4390.7	5043.1	5023.1
42.5°	750.1	713.8	721.3	777.7	799.0	819.0	1118.3	3150.9	4740.1	5431.4	5425.1
45°	695.0	667.5	662.5	723.8	742.6	822.8	1003.1	3242.3	5189.7	5926.0	5936.0
47.5°	641.2	619.9	621.2	647.5	693.8	841.6	905.4	3302.4	5842.1	6710.0	6535.9
50°	592.4	576.1	589.8	559.8	662.5	817.8	821.5	3289.9	6571.0	7461.4	7112.0
52.5°	538.5	534.7	541.0	468.4	612.4	721.3	742.6	3123.3	6912.9	7974.8	7775.7
55°	483.4	482.1	432.1	374.4	512.2	576.1	636.2	2606.1	6901.6	8247.8	8489.5
57.5°	418.3	408.3	328.1	305.6	398.2	400.7	579.8	1706.9	6116.4	7594.1	8095.1
60°	316.8	309.3	240.4	248.0	278.0	256.7	462.1	850.3	4571.0	5916.0	6480.8
62.5°	219.2	209.1	179.1	191.6	179.1	146.5	283.0	420.8	2768.9	3735.7	4247.9
65°	160.3	149.0	122.7	105.2	83.9	83.9	107.7	161.6	1072.0	1588.0	1914.8
67.5°	98.9	93.9	72.6	52.6	51.3	55.1	56.4	80.1	172.8	275.5	336.9
70°	63.9	58.9	48.8	33.8	31.3	32.6	33.8	37.6	43.8	47.6	57.6
72.5°	43.8	41.3	35.1	18.8	15.0	16.3	17.5	17.5	21.3	20.0	23.8
75°	31.3	28.8	25.0	8.8	5.0	6.3	7.5	6.3	7.5	5.0	6.3
77.5°	8.8	8.8	6.3	1.3	0.0	1.3	2.5	2.5	1.3	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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



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CATALOG NUMBER: GWS-SA3E-830-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1591.7	1591.7	1591.7	1591.7	1591.7	1591.7	1591.7	1591.7	1591.7	1591.7
2.5°	1804.6	1833.4	1844.7	1828.4	1842.2	1819.6	1810.9	1777.1	1774.6	1768.3
5°	2047.6	2112.7	2151.5	2175.3	2147.7	2117.7	2072.6	1995.0	1971.2	1956.1
7.5°	2286.8	2388.2	2454.6	2485.9	2478.4	2417.0	2335.6	2205.4	2159.0	2136.5
10°	2494.6	2618.6	2698.8	2737.6	2721.3	2667.5	2551.0	2388.2	2326.8	2313.1
12.5°	2639.9	2753.9	2809.0	2842.8	2844.0	2822.8	2712.5	2548.5	2475.9	2458.3
15°	2731.3	2780.2	2781.4	2801.5	2836.5	2884.1	2832.8	2687.5	2609.9	2583.6
17.5°	2788.9	2735.1	2680.0	2685.0	2742.6	2869.1	2921.7	2810.2	2727.6	2698.8
20°	2830.3	2659.9	2557.3	2558.5	2617.4	2809.0	2983.0	2929.2	2844.0	2817.7
22.5°	2856.6	2593.6	2447.1	2443.3	2505.9	2737.6	3039.4	3070.7	2986.8	2956.8
25°	2910.4	2562.3	2380.7	2402.0	2457.1	2715.1	3115.8	3258.6	3180.9	3140.8
27.5°	3006.8	2593.6	2374.4	2423.3	2485.9	2781.4	3248.5	3509.0	3428.9	3383.8
30°	3173.4	2711.3	2470.8	2538.5	2613.6	2955.5	3471.5	3858.4	3743.2	3700.6
32.5°	3441.4	2955.5	2768.9	2914.2	2986.8	3241.0	3805.8	4250.4	4156.5	4071.3
35°	3810.8	3512.8	3491.5	3829.6	3812.1	3782.0	4216.6	4731.3	4589.8	4507.1
37.5°	4319.3	4409.5	4567.2	4902.9	4891.6	4662.4	4756.3	5185.9	5113.3	5006.8
40°	4954.2	5145.8	5413.8	5894.7	5744.4	5456.4	5418.8	5651.8	5592.9	5467.7
42.5°	5328.7	5659.3	6170.2	6602.3	6482.1	5978.6	5936.0	6274.2	6145.2	6008.7
45°	5502.7	6077.6	7079.4	7664.3	7299.8	6325.5	6309.2	7085.7	7013.0	6830.2
47.5°	5582.9	6499.6	8143.9	9029.3	8348.0	6629.8	6571.0	8262.9	8167.7	7952.3
50°	5671.8	7081.9	9426.3	10611.0	9614.1	6974.2	7016.8	9359.9	9319.8	9065.6
52.5°	5867.2	7698.1	11005.5	12419.4	11149.5	7514.0	7782.0	10394.3	10123.8	9830.8
55°	6160.2	8369.3	12648.5	14266.5	12716.2	8239.1	8609.8	10944.1	10185.2	9860.8
57.5°	5835.9	8537.1	13621.6	15556.4	13411.2	8241.6	7909.7	9991.1	8957.9	8643.6
60°	4631.1	7942.3	13247.1	15277.2	12818.8	7318.6	6056.3	7800.8	6786.4	6576.0
62.5°	3130.8	6661.1	11661.7	12920.3	10971.7	5757.0	3936.1	5073.2	4201.6	4027.5
65°	1715.7	4969.2	9422.5	9774.4	8587.2	4021.2	2025.0	2201.6	1676.9	1599.2
67.5°	473.4	3458.9	6932.9	6484.6	6025.0	2618.6	523.5	393.2	280.5	278.0
70°	119.0	2288.0	4154.0	4281.7	3694.4	1676.9	100.2	47.6	37.6	36.3
72.5°	50.1	984.3	1971.2	2265.5	1891.0	776.4	36.3	13.8	11.3	8.8
75°	6.3	78.9	167.8	254.2	174.1	83.9	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	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

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2408-195-9
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/07/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: MCGRAW EDISON
 Catalog Number: **GALN-SB1A-830-U-5WQ**
 Description: GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K): 3050
 CIE u': 0.2476
 CIE v': 0.5251
 Duv: 0.0034
 CIE x: 0.4383
 CIE y: 0.4131
 CIE z: 0.1487
 Peak Wavelength (nm): 603
 Dominant Wavelength (nm): 581
 Purity: 55.55201
 Rf: 81.5
 Rg: 99.2

CRI (Ra):	81.0		
R1:	79.6	R9:	7.1
R2:	85.6	R10:	67.0
R3:	92.0	R11:	82.7
R4:	82.6	R12:	63.2
R5:	78.9	R13:	80.3
R6:	81.7	R14:	95.0
R7:	85.2	R15:	71.7
R8:	62.0		



Test Conditions

Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

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CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



CCT = 3050K
 CIE x = 0.4383
 CIE y = 0.4131
 Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.32

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 81.0$
 $R_9 = 7.1$



Color Vector Graphics



Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 94
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)