

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: P635512

Luminaire Tested: GWS-SA3D-830-U-SLL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635512  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-37)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3D-830-U-SLL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

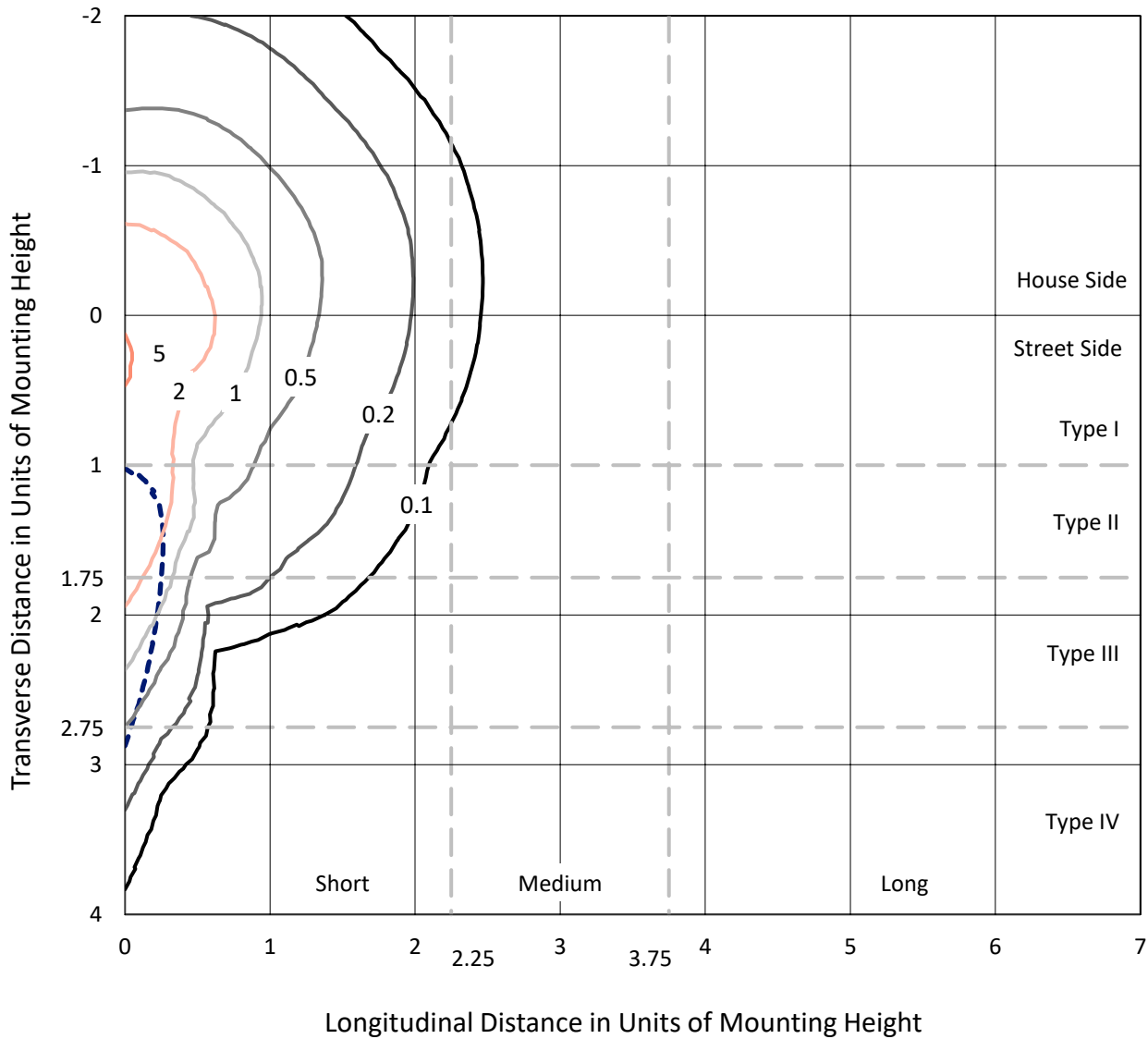
Lumens per Lamp: N/A  
Luminaire Lumens: 13102.4 lumens  
Efficiency: N/A  
Efficacy: 108.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 120.8  
Input Voltage (V): 120  
Input Current (Ain): 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

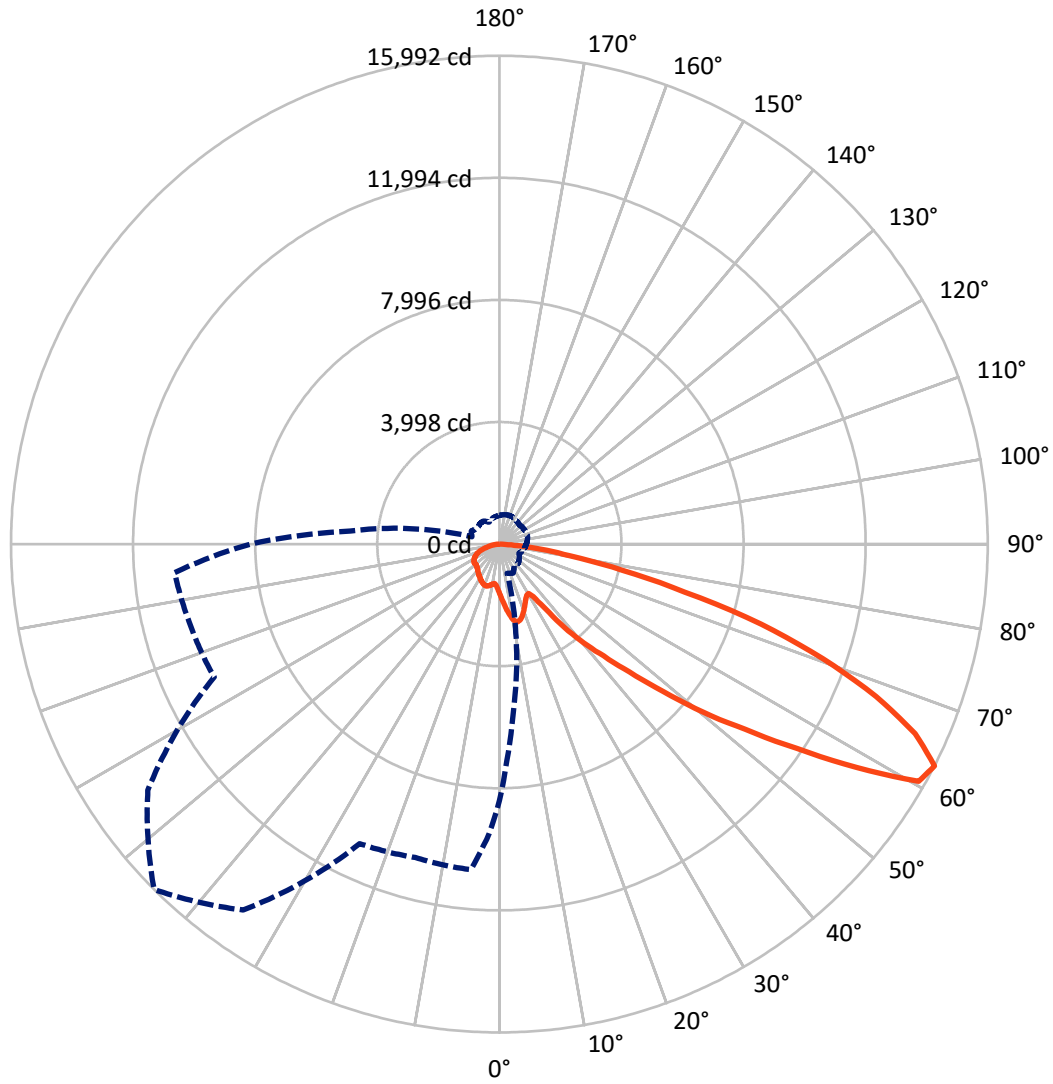
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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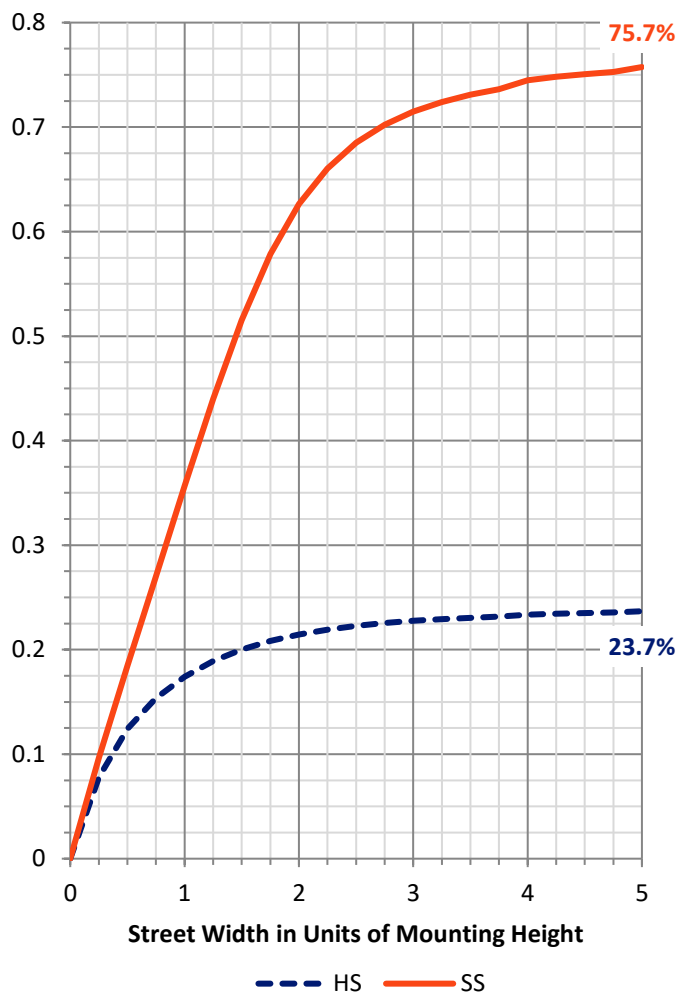
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3132.8	0.0	3132.8
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	9969.6	0.0	9969.6
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	13102.4	0.0	13102.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.9	1.2
10°-20°	523.0	4.0
20°-30°	823.4	6.3
30°-40°	1128.6	8.6
40°-50°	1761.0	13.4
50°-60°	3036.2	23.2
60°-70°	3518.6	26.9
70°-80°	1857.3	14.2
80°-90°	293.4	2.2
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°	13102.4	100.0
0°-180°	13102.4	100.0

**Coefficient of Utilization**







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**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1633.6	1633.6	1633.6	1633.6	1633.6	1633.6	1633.6	1633.6	1633.6	1633.6	1633.6
2.5°	1774.9	1767.9	1757.9	1723.8	1702.8	1678.7	1653.6	1624.6	1591.5	1568.5	1545.4
5°	1925.2	1914.2	1890.2	1809.0	1752.9	1691.7	1640.6	1582.5	1525.4	1486.3	1447.2
7.5°	2069.6	2055.5	2018.4	1894.2	1803.0	1714.8	1637.6	1553.4	1468.2	1410.1	1364.0
10°	2213.9	2184.8	2137.7	1975.4	1855.1	1752.9	1664.7	1561.4	1448.2	1369.0	1319.9
12.5°	2324.1	2297.1	2245.9	2049.5	1907.2	1778.9	1679.7	1584.5	1488.3	1404.1	1354.0
15°	2427.3	2392.3	2334.1	2118.7	1950.3	1777.9	1649.6	1566.5	1552.4	1531.4	1466.2
17.5°	2501.5	2469.4	2409.3	2174.8	1974.3	1746.8	1566.5	1517.3	1580.5	1644.6	1582.5
20°	2566.7	2529.6	2468.4	2213.9	1979.4	1677.7	1465.2	1466.2	1565.4	1653.6	1638.6
22.5°	2621.8	2580.7	2526.6	2258.0	1977.4	1581.5	1377.0	1437.2	1536.4	1605.5	1607.5
25°	2689.9	2655.8	2610.8	2323.1	1977.4	1483.3	1312.9	1402.1	1487.3	1545.4	1543.4
27.5°	2773.1	2750.1	2713.0	2422.3	1995.4	1401.1	1276.8	1357.0	1424.1	1474.2	1473.2
30°	2866.3	2845.3	2817.2	2527.6	2026.5	1340.0	1256.8	1300.9	1350.0	1390.1	1390.1
32.5°	2961.5	2953.5	2923.4	2611.8	2002.4	1320.9	1239.7	1244.7	1270.8	1303.9	1300.9
35°	3093.8	3085.8	3047.7	2676.9	1898.2	1293.8	1212.7	1187.6	1190.6	1211.7	1218.7
37.5°	3287.2	3275.2	3219.1	2753.1	1740.8	1225.7	1168.6	1127.5	1118.5	1127.5	1140.5
40°	3520.8	3502.7	3426.5	2856.3	1559.4	1133.5	1099.4	1065.3	1050.3	1053.3	1068.4
42.5°	3813.4	3775.3	3666.1	2965.5	1380.0	1052.3	1022.3	1001.2	984.2	982.2	1011.2
45°	4288.4	4184.2	4010.8	3062.7	1228.7	1009.2	953.1	938.1	924.0	932.1	966.1
47.5°	5118.3	4925.8	4588.1	3145.9	1136.5	1010.2	898.0	881.9	880.9	897.0	935.1
50°	6258.8	5981.2	5460.0	3202.1	1088.4	1022.3	864.9	838.8	857.9	873.9	910.0
52.5°	7351.2	6927.3	6306.9	3201.1	1067.4	1024.3	873.9	798.8	857.9	861.9	896.0
55°	8284.2	7516.6	6535.4	2872.3	1037.3	1016.2	909.0	767.7	846.9	861.9	889.0
57.5°	9025.9	7891.4	6518.4	2320.1	1128.5	972.1	930.0	760.7	814.8	863.9	895.0
60°	8943.7	7720.0	6098.4	1424.1	1119.5	894.0	927.0	773.7	760.7	836.8	888.0
62.5°	8397.5	7105.7	5375.8	988.2	1051.3	848.9	877.9	796.8	710.6	797.8	853.9
65°	7632.8	6312.9	4479.9	757.7	870.9	850.9	794.8	780.7	666.5	735.6	795.8
67.5°	6621.6	5329.7	3536.8	600.3	607.3	736.6	721.6	693.5	625.4	680.5	734.6
70°	4978.0	3889.6	2433.4	483.1	460.0	615.4	648.4	623.4	585.3	601.3	658.5
72.5°	3507.7	2539.6	1332.9	382.8	354.8	473.0	563.2	559.2	517.1	529.2	585.3
75°	2606.7	1797.0	832.8	302.7	288.6	338.7	472.0	484.1	449.0	463.0	506.1
77.5°	1734.8	1163.6	463.0	224.5	224.5	247.5	351.8	407.9	381.8	392.9	422.9
80°	957.1	592.3	231.5	147.3	151.3	170.4	256.6	293.6	294.6	321.7	329.7
82.5°	302.7	188.4	103.2	86.2	81.2	97.2	165.4	210.5	196.4	250.6	230.5
85°	69.2	44.1	19.0	19.0	21.0	32.1	63.1	112.2	143.3	172.4	125.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	44.1	65.1	58.1
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°	1633.6	1633.6	1633.6	1633.6	1633.6	1633.6	1633.6	1633.6	1633.6	1633.6	1633.6
2.5°	1531.4	1511.3	1505.3	1488.3	1486.3	1470.2	1464.2	1464.2	1471.2	1471.2	1478.3
5°	1431.2	1406.1	1392.1	1372.0	1367.0	1355.0	1347.0	1348.0	1357.0	1363.0	1375.0
7.5°	1343.0	1325.9	1315.9	1306.9	1304.9	1302.9	1293.8	1292.8	1295.9	1304.9	1313.9
10°	1305.9	1293.8	1296.9	1303.9	1314.9	1320.9	1312.9	1308.9	1305.9	1311.9	1319.9
12.5°	1342.0	1329.9	1335.9	1348.0	1363.0	1369.0	1366.0	1365.0	1368.0	1391.1	1408.1
15°	1421.1	1398.1	1390.1	1395.1	1407.1	1413.1	1410.1	1414.1	1433.2	1493.3	1536.4
17.5°	1519.3	1463.2	1431.2	1422.1	1427.1	1432.2	1432.2	1442.2	1475.2	1563.4	1617.6
20°	1572.5	1499.3	1445.2	1423.1	1425.1	1430.1	1430.1	1444.2	1481.3	1575.5	1610.5
22.5°	1558.4	1491.3	1425.1	1401.1	1402.1	1406.1	1406.1	1418.1	1451.2	1534.4	1550.4
25°	1503.3	1444.2	1379.0	1358.0	1360.0	1367.0	1365.0	1372.0	1397.1	1465.2	1474.2
27.5°	1437.2	1385.1	1320.9	1304.9	1313.9	1327.9	1315.9	1316.9	1340.0	1397.1	1398.1
30°	1366.0	1322.9	1265.8	1253.8	1270.8	1277.8	1266.8	1266.8	1289.8	1328.9	1327.9
32.5°	1288.8	1261.8	1220.7	1207.7	1226.7	1237.7	1223.7	1225.7	1243.7	1269.8	1259.8
35°	1216.7	1202.6	1183.6	1174.6	1186.6	1196.6	1187.6	1191.6	1208.7	1215.7	1201.6
37.5°	1147.5	1145.5	1147.5	1147.5	1150.5	1153.5	1147.5	1157.5	1172.6	1163.6	1147.5
40°	1087.4	1095.4	1114.5	1109.4	1106.4	1109.4	1105.4	1122.5	1137.5	1121.5	1102.4
42.5°	1037.3	1052.3	1081.4	1081.4	1075.4	1077.4	1075.4	1096.4	1107.4	1085.4	1064.3
45°	994.2	1016.2	1053.3	1058.3	1048.3	1048.3	1052.3	1078.4	1082.4	1052.3	1030.3
47.5°	964.1	991.2	1033.3	1042.3	1027.3	1026.3	1037.3	1065.3	1065.3	1030.3	1005.2
50°	943.1	973.1	1023.3	1035.3	1020.2	1016.2	1034.3	1061.3	1055.3	1013.2	988.2
52.5°	929.0	960.1	1022.3	1039.3	1029.3	1025.3	1043.3	1062.3	1047.3	1002.2	976.1
55°	920.0	954.1	1025.3	1039.3	1028.3	1021.2	1039.3	1056.3	1048.3	996.2	971.1
57.5°	925.0	959.1	1021.2	1028.3	1015.2	1003.2	1024.3	1048.3	1045.3	998.2	973.1
60°	917.0	948.1	999.2	1001.2	979.2	960.1	991.2	1027.3	1027.3	991.2	969.1
62.5°	879.9	911.0	956.1	958.1	933.1	912.0	948.1	991.2	990.2	961.1	938.1
65°	818.8	847.9	899.0	904.0	878.9	856.9	894.0	934.1	937.1	911.0	891.0
67.5°	751.7	777.7	815.8	835.8	814.8	791.7	825.8	863.9	862.9	831.8	810.8
70°	671.5	695.5	730.6	747.6	734.6	712.6	743.6	763.7	754.7	739.6	725.6
72.5°	592.3	615.4	648.4	648.4	634.4	613.4	622.4	658.5	669.5	658.5	649.4
75°	509.1	529.2	552.2	557.2	526.2	488.1	530.2	561.2	574.3	569.3	558.2
77.5°	423.9	439.0	473.0	464.0	405.9	385.8	419.9	466.0	475.0	472.0	457.0
80°	326.7	335.7	371.8	353.8	308.7	295.7	310.7	346.8	348.8	338.7	319.7
82.5°	219.5	231.5	255.6	220.5	219.5	207.5	195.4	199.4	217.5	215.5	202.4
85°	112.2	118.3	141.3	132.3	113.2	98.2	93.2	99.2	89.2	81.2	70.2
87.5°	47.1	51.1	70.2	39.1	12.0	0.0	0.0	6.0	9.0	13.0	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





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1633.6	1633.6	1633.6	1633.6	1633.6	1633.6	1633.6	1633.6	1633.6	1633.6	1633.6
2.5°	1494.3	1505.3	1532.4	1566.5	1599.5	1633.6	1670.7	1693.7	1721.8	1757.9	1758.9
5°	1390.1	1415.1	1454.2	1506.3	1560.4	1622.6	1694.7	1754.9	1827.0	1884.1	1907.2
7.5°	1325.9	1362.0	1411.1	1477.3	1548.4	1625.6	1719.8	1821.0	1939.3	2015.4	2060.5
10°	1331.9	1387.1	1436.2	1492.3	1556.4	1639.6	1760.9	1895.2	2040.5	2140.7	2196.8
12.5°	1439.2	1497.3	1488.3	1485.3	1528.4	1629.6	1794.0	1970.3	2147.7	2248.0	2315.1
15°	1574.5	1596.5	1511.3	1447.2	1473.2	1593.5	1812.0	2037.5	2236.9	2359.2	2425.3
17.5°	1643.6	1599.5	1496.3	1400.1	1393.1	1538.4	1821.0	2105.6	2337.1	2459.4	2529.6
20°	1611.5	1547.4	1460.2	1369.0	1318.9	1463.2	1816.0	2159.8	2428.3	2564.6	2621.8
22.5°	1542.4	1486.3	1418.1	1330.9	1258.8	1381.0	1803.0	2213.9	2509.5	2646.8	2696.9
25°	1467.2	1425.1	1369.0	1292.8	1224.7	1308.9	1794.0	2286.0	2602.7	2734.0	2766.1
27.5°	1392.1	1361.0	1314.9	1255.8	1216.7	1258.8	1797.0	2380.2	2723.0	2847.3	2834.2
30°	1317.9	1290.8	1258.8	1232.7	1215.7	1246.7	1788.9	2480.5	2855.3	2970.5	2893.4
32.5°	1247.7	1222.7	1202.6	1206.7	1216.7	1251.8	1747.8	2571.7	2976.6	3074.8	2957.5
35°	1187.6	1161.6	1161.6	1175.6	1212.7	1234.7	1641.6	2642.8	3110.9	3209.1	3048.7
37.5°	1131.5	1108.4	1123.5	1146.5	1181.6	1188.6	1505.3	2712.0	3306.3	3398.5	3190.0
40°	1082.4	1059.3	1086.4	1115.5	1133.5	1130.5	1367.0	2808.2	3536.8	3632.0	3377.4
42.5°	1043.3	1022.3	1046.3	1083.4	1086.4	1089.4	1265.8	2900.4	3804.4	3925.6	3700.1
45°	1011.2	996.2	1008.2	1045.3	1045.3	1091.4	1202.6	2977.6	4207.3	4421.7	4292.5
47.5°	986.2	977.2	983.2	995.2	1015.2	1127.5	1162.6	3036.7	4940.9	5361.8	5231.5
50°	972.1	963.1	971.1	946.1	1006.2	1145.5	1149.5	3081.8	5908.0	6567.5	6406.1
52.5°	960.1	957.1	962.1	904.0	1026.3	1133.5	1139.5	3021.7	6556.4	7754.1	7913.4
55°	956.1	958.1	934.1	872.9	1050.3	1093.4	1109.4	2591.7	6732.8	8777.3	9766.5
57.5°	958.1	952.1	891.0	875.9	1051.3	1013.2	1152.5	1849.1	6476.3	9222.3	11579.5
60°	951.1	921.0	838.8	903.0	1005.2	919.0	1121.5	1205.7	5799.8	8880.6	11684.7
62.5°	920.0	875.9	793.7	918.0	923.0	862.9	1018.2	929.0	4897.8	8148.9	10670.5
65°	874.9	815.8	755.7	887.0	839.8	836.8	765.7	744.6	3938.7	7278.0	9708.4
67.5°	800.8	741.6	727.6	815.8	755.7	741.6	615.4	617.4	3142.9	6350.0	8741.3
70°	716.6	657.4	668.5	737.6	672.5	616.4	498.1	514.1	2384.3	5290.7	7437.4
72.5°	661.5	582.3	583.3	649.4	591.3	499.1	409.9	423.9	1513.3	3987.8	5913.0
75°	558.2	513.1	491.1	526.2	502.1	388.9	344.8	341.8	897.0	2858.3	4427.8
77.5°	466.0	430.9	419.9	434.0	374.8	287.6	277.6	272.6	508.1	1831.0	2901.4
80°	337.7	328.7	327.7	334.7	288.6	211.5	211.5	212.5	273.6	994.2	1635.6
82.5°	214.5	234.5	207.5	230.5	196.4	150.3	140.3	159.4	157.3	423.9	689.5
85°	89.2	122.3	114.3	121.3	93.2	82.2	88.2	95.2	91.2	163.4	268.6
87.5°	17.0	20.0	22.0	21.0	21.0	26.1	29.1	35.1	35.1	47.1	81.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P635512

CATALOG NUMBER: GWS-SA3D-830-U-SLL-W

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1633.6	1633.6	1633.6	1633.6	1633.6	1633.6	1633.6	1633.6	1633.6	1633.6
2.5°	1797.0	1826.0	1820.0	1833.0	1816.0	1822.0	1787.9	1778.9	1772.9	1774.9
5°	1981.4	2040.5	2051.5	2073.6	2058.5	2058.5	1998.4	1953.3	1937.3	1925.2
7.5°	2168.8	2254.0	2310.1	2316.1	2308.1	2292.0	2204.9	2123.7	2094.6	2069.6
10°	2335.1	2437.4	2500.5	2530.6	2515.5	2490.5	2382.2	2271.0	2235.9	2213.9
12.5°	2462.4	2552.6	2594.7	2614.8	2612.8	2603.7	2515.5	2395.3	2358.2	2324.1
15°	2544.6	2589.7	2573.7	2572.7	2586.7	2622.8	2595.7	2501.5	2458.4	2427.3
17.5°	2597.7	2554.6	2483.5	2450.4	2480.5	2565.7	2627.8	2574.7	2535.6	2501.5
20°	2616.8	2463.4	2360.2	2299.1	2334.1	2457.4	2610.8	2627.8	2594.7	2566.7
22.5°	2594.7	2352.2	2211.9	2139.7	2173.8	2321.1	2560.6	2670.9	2648.8	2621.8
25°	2540.6	2235.9	2067.6	2002.4	2039.5	2189.8	2471.4	2711.0	2712.0	2689.9
27.5°	2473.4	2128.7	1966.3	1905.2	1941.3	2081.6	2384.3	2746.0	2781.1	2773.1
30°	2405.3	2064.5	1918.2	1875.1	1902.2	2026.5	2295.1	2782.1	2852.3	2866.3
32.5°	2374.2	2095.6	2031.5	2050.5	2015.4	2058.5	2263.0	2833.2	2938.5	2961.5
35°	2415.3	2371.2	2533.6	2608.7	2484.5	2321.1	2304.1	2910.4	3059.7	3093.8
37.5°	2614.8	2961.5	3204.1	3468.6	3253.2	2893.4	2507.5	3041.7	3233.1	3287.2
40°	3048.7	3476.7	3914.6	4256.4	3930.7	3446.6	2894.4	3237.1	3471.6	3520.8
42.5°	3457.6	3959.7	4563.1	5005.0	4582.1	3898.6	3311.3	3565.9	3786.3	3813.4
45°	3858.5	4433.8	5347.8	5962.1	5387.9	4328.5	3737.2	4121.1	4287.4	4288.4
47.5°	4328.5	4967.9	6331.9	7206.9	6457.2	4804.6	4137.1	5000.0	5231.5	5118.3
50°	4890.8	5499.1	7345.2	8655.1	7761.1	5389.9	4645.2	6071.4	6387.1	6258.8
52.5°	5643.4	6084.4	8461.6	10067.2	9182.2	6056.3	5381.9	7486.5	7590.7	7351.2
55°	6702.8	6929.3	9894.8	11811.0	10768.7	6877.1	6459.2	9262.4	8970.8	8284.2
57.5°	9115.1	8266.2	11734.8	13800.4	12563.7	8368.4	8820.4	11220.7	10183.4	9025.9
60°	11133.5	9889.8	13437.6	15774.7	14102.1	10012.1	11037.3	11561.5	10138.3	8943.7
62.5°	10453.0	10303.7	14051.9	15992.2	14627.2	10820.8	10625.4	10702.6	9476.9	8397.5
65°	9171.2	9504.9	13503.7	14961.0	14044.9	10096.2	9611.2	9908.8	8720.2	7632.8
67.5°	8414.5	8660.1	12528.6	13310.3	12986.6	9312.5	8822.4	8607.0	7545.6	6621.6
70°	7640.8	7844.3	11159.6	11238.8	11336.0	8009.6	7213.9	6572.5	5624.4	4978.0
72.5°	6602.5	6613.6	9428.8	8969.8	9154.2	6267.8	5806.8	4913.8	4094.0	3507.7
75°	5539.2	5236.5	7463.4	6269.8	6639.6	4875.7	4821.6	3703.2	3087.8	2606.7
77.5°	4223.3	3869.5	5452.0	4123.1	4663.3	3247.2	3625.0	2511.5	2172.8	1734.8
80°	2835.2	2614.8	3012.6	2327.1	3050.7	2237.9	2364.2	1423.1	1233.7	957.1
82.5°	1495.3	1276.8	1862.1	1380.0	1840.1	1229.7	887.0	440.0	374.8	302.7
85°	579.3	670.5	913.0	491.1	713.6	439.0	256.6	109.2	91.2	69.2
87.5°	112.2	173.4	95.2	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**

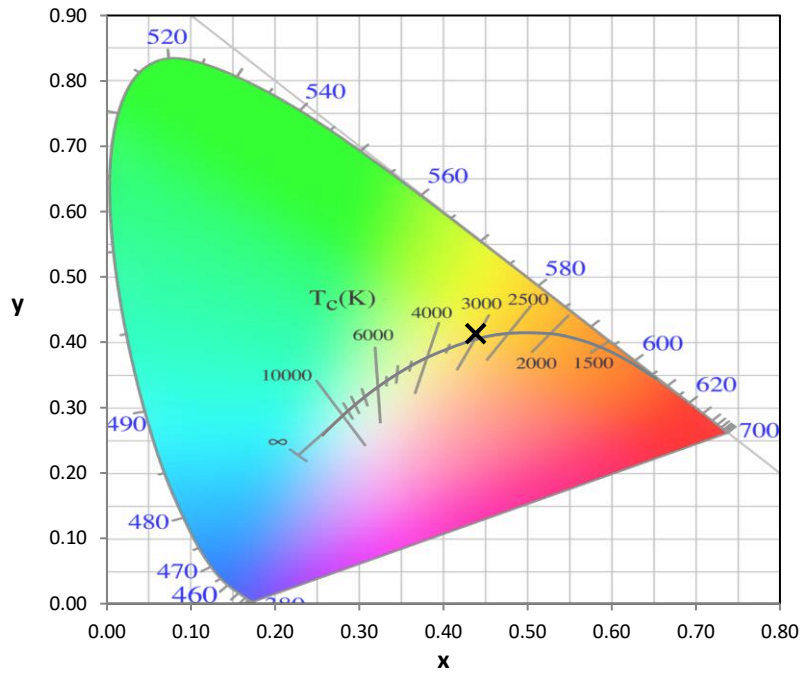
Stabilization Time: 20M  
 Operation Time: 1H 20M  
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

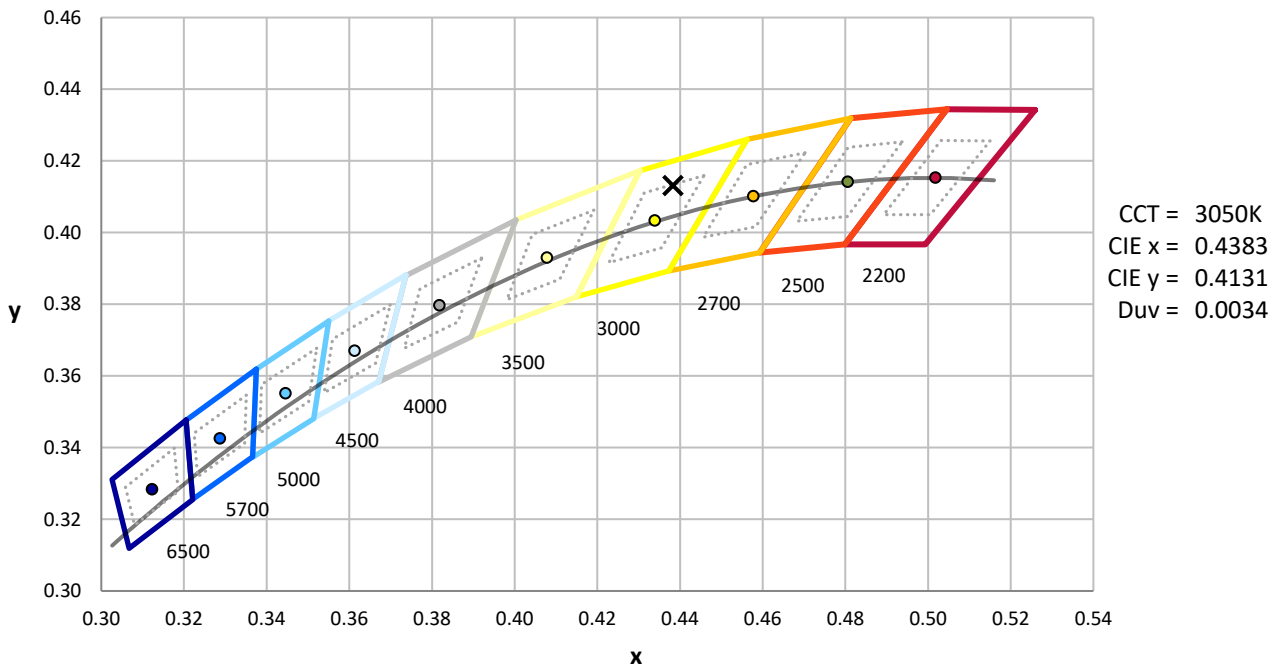
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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**CIE 1931 Chromaticity Diagram**



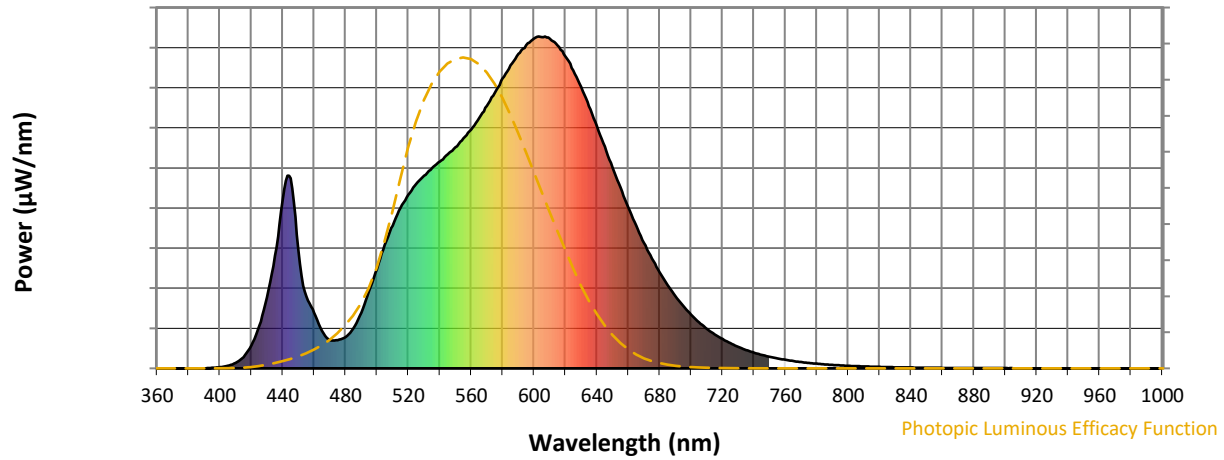
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 3000K 4-step quadrangle

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**Photopic Flux vs. Wavelength**

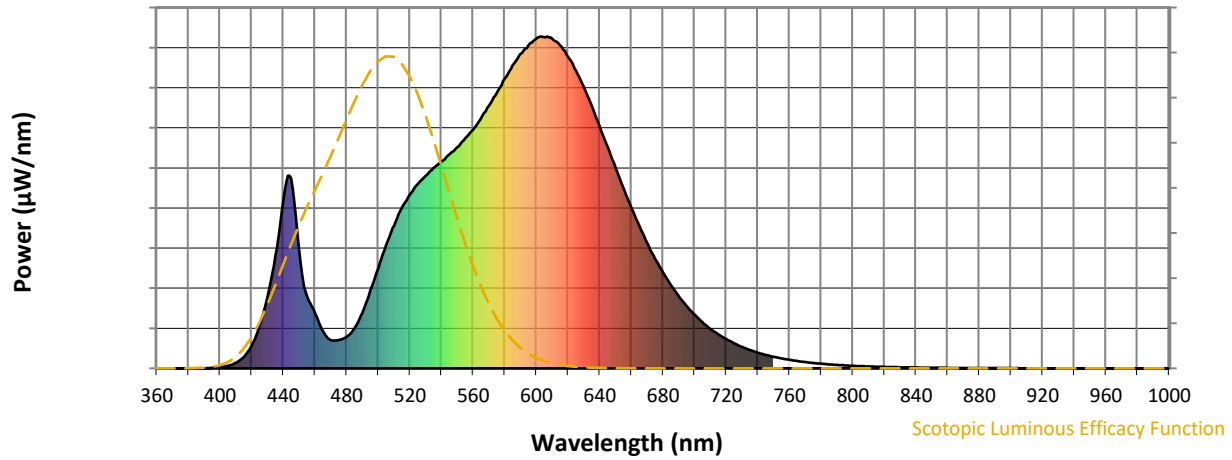


**Photopic Lumens: NR**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /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**

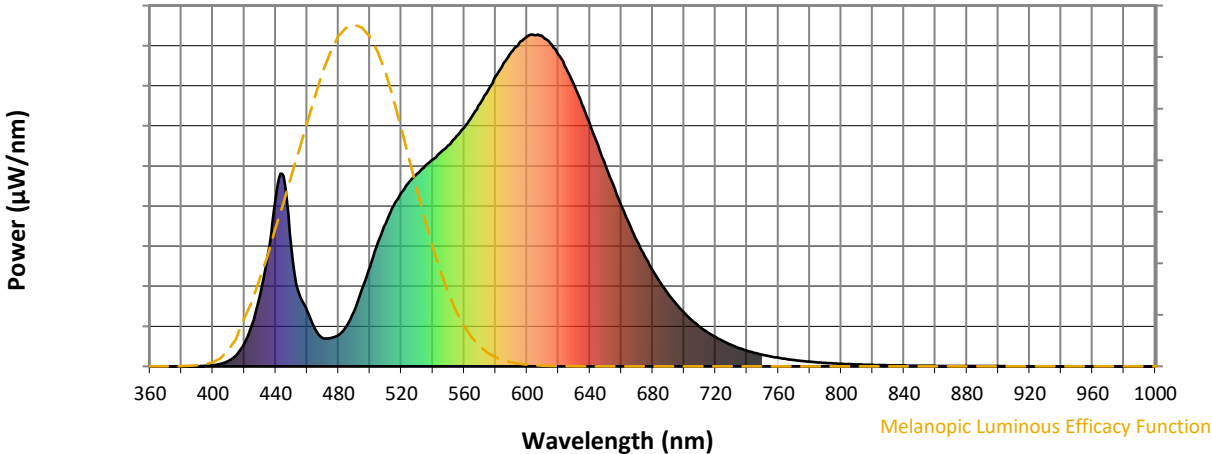
**S/P: 1.27**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /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			



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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.32

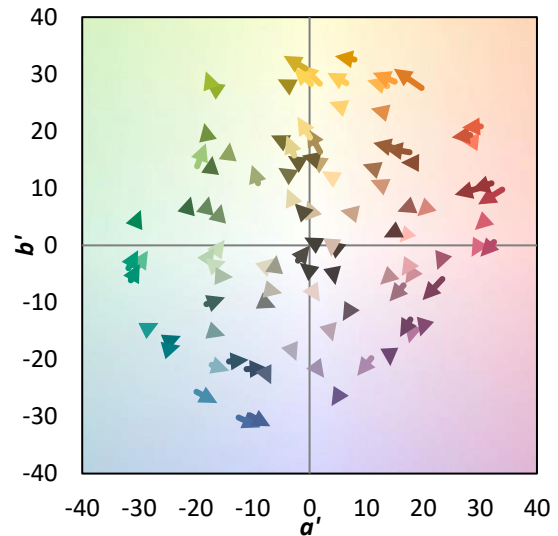
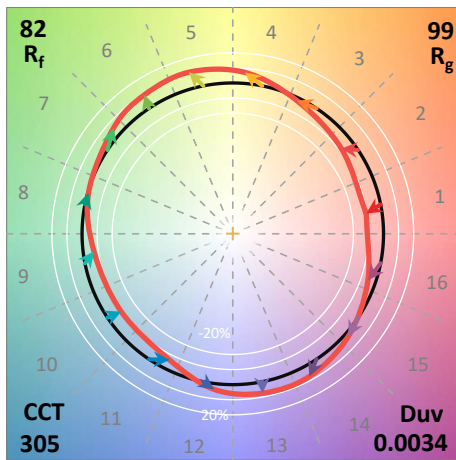
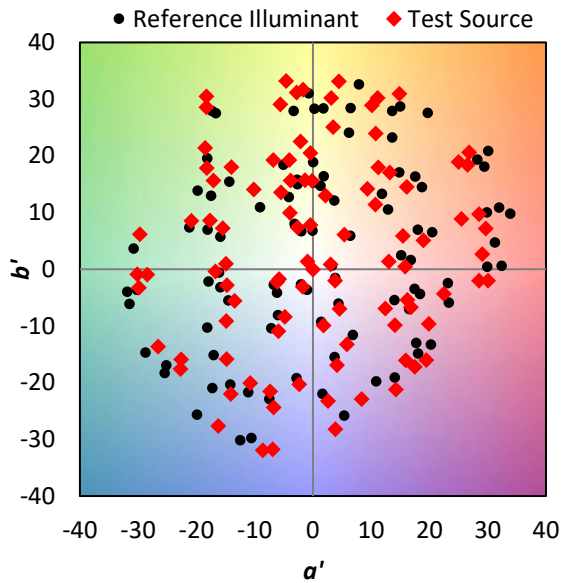
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	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**

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

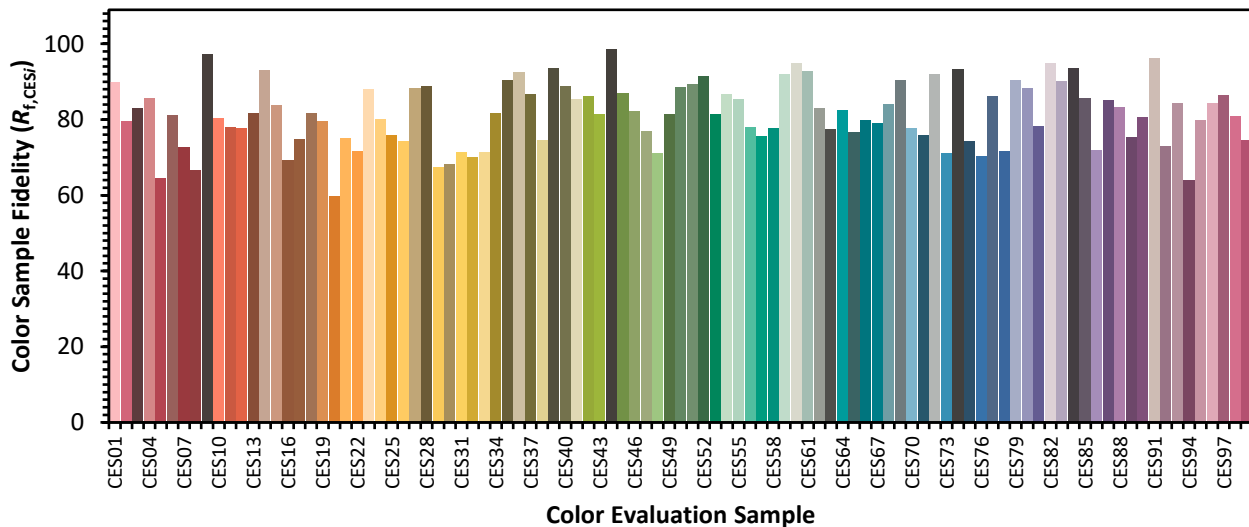


**Color Vector Graphics**

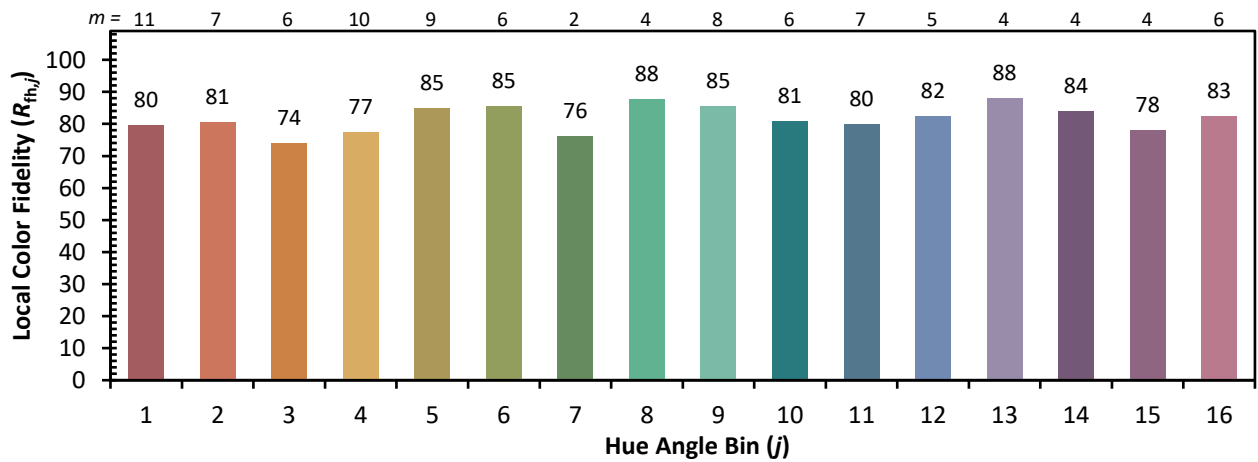
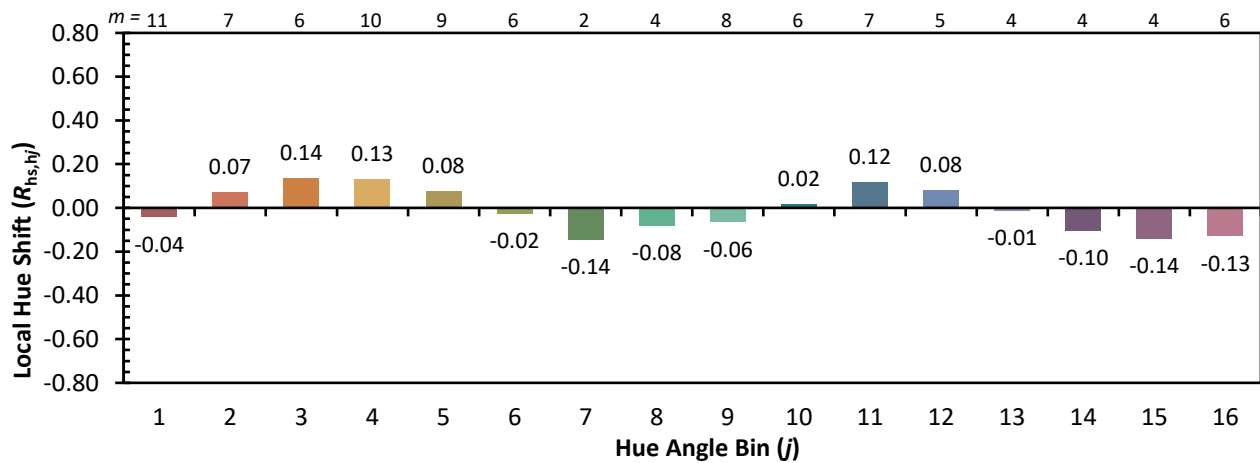
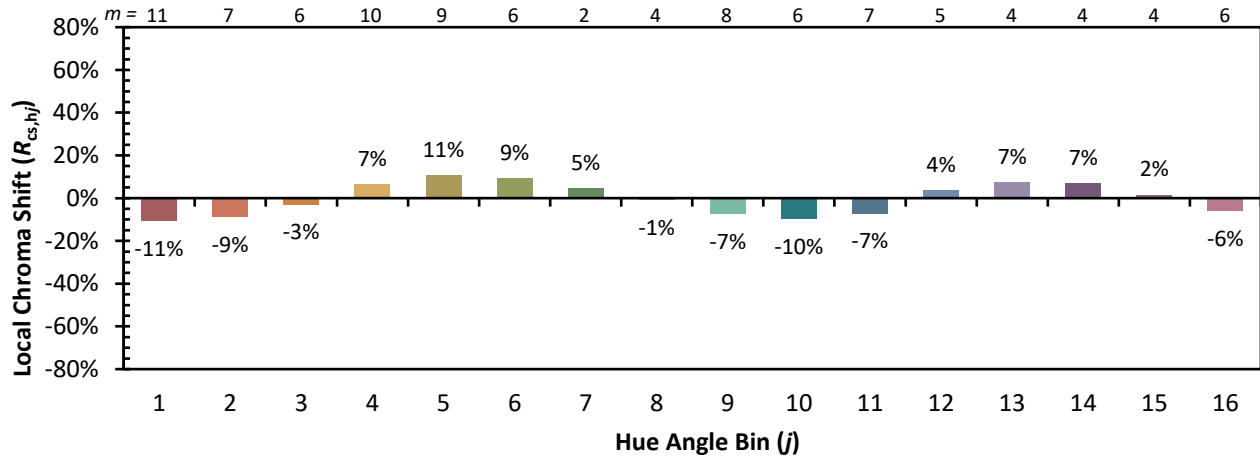


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

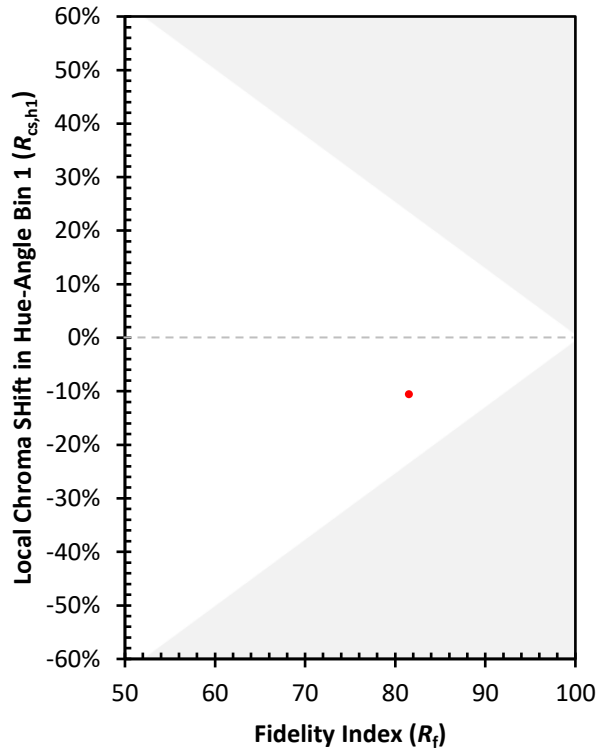
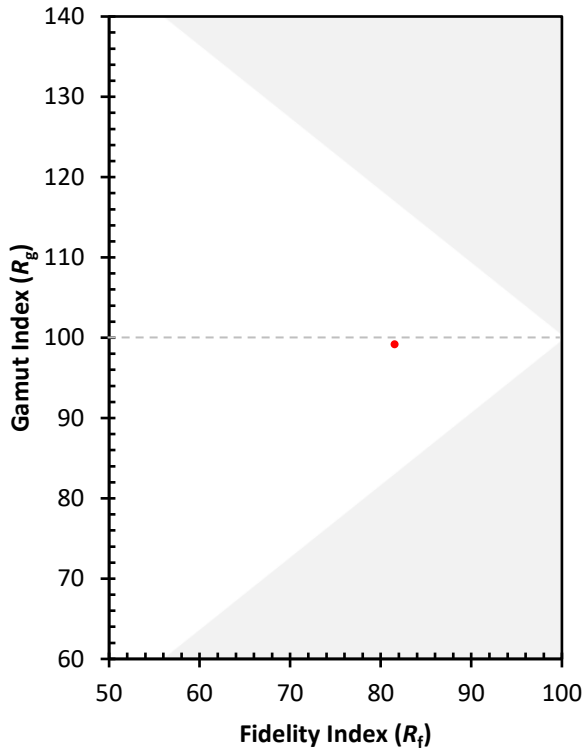
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 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)