

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: P635017

Luminaire Tested: GWS-SA3C-830-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635017
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-SA3C-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: 10385.8 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

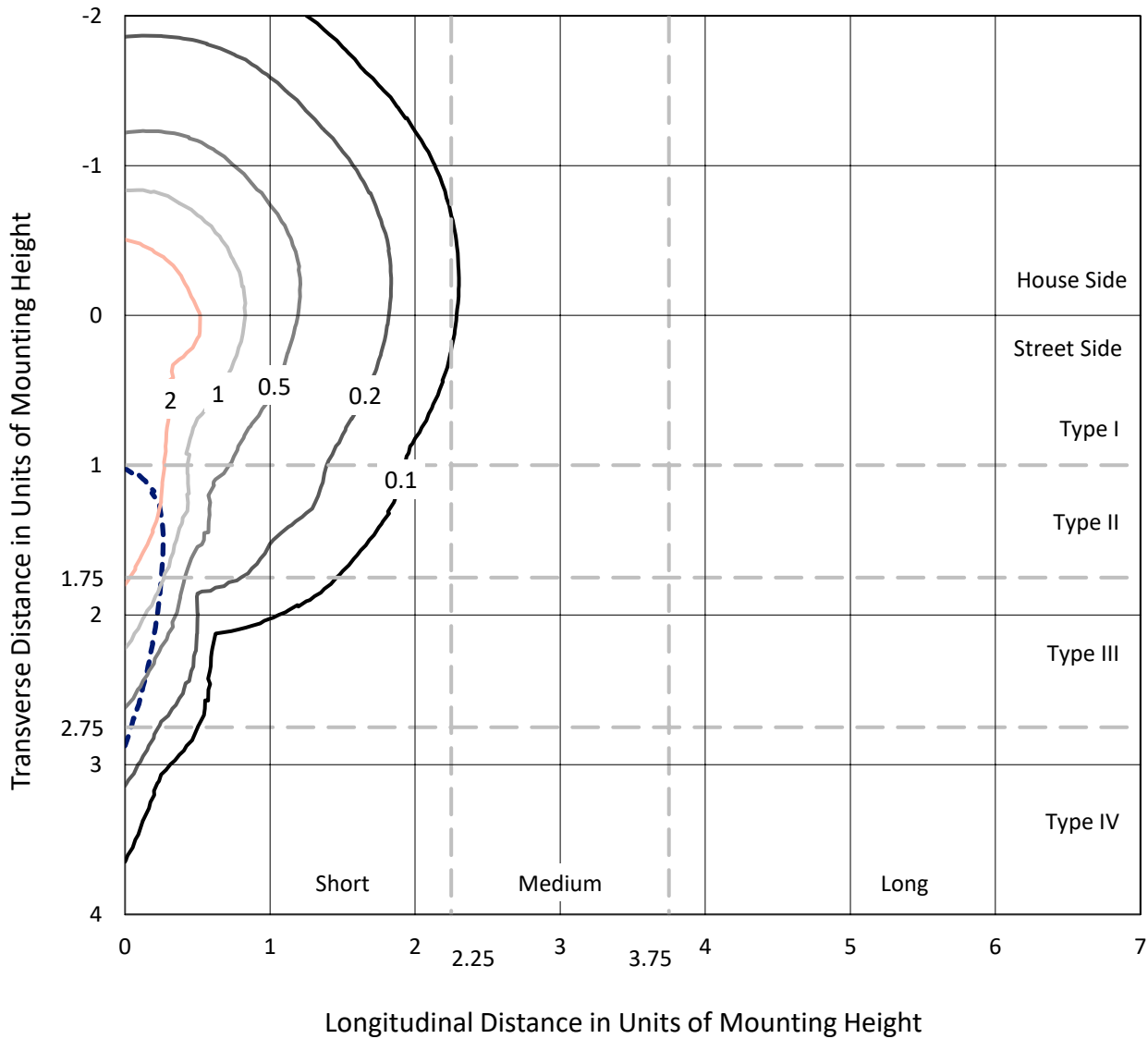
Input Watts (W): 93
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

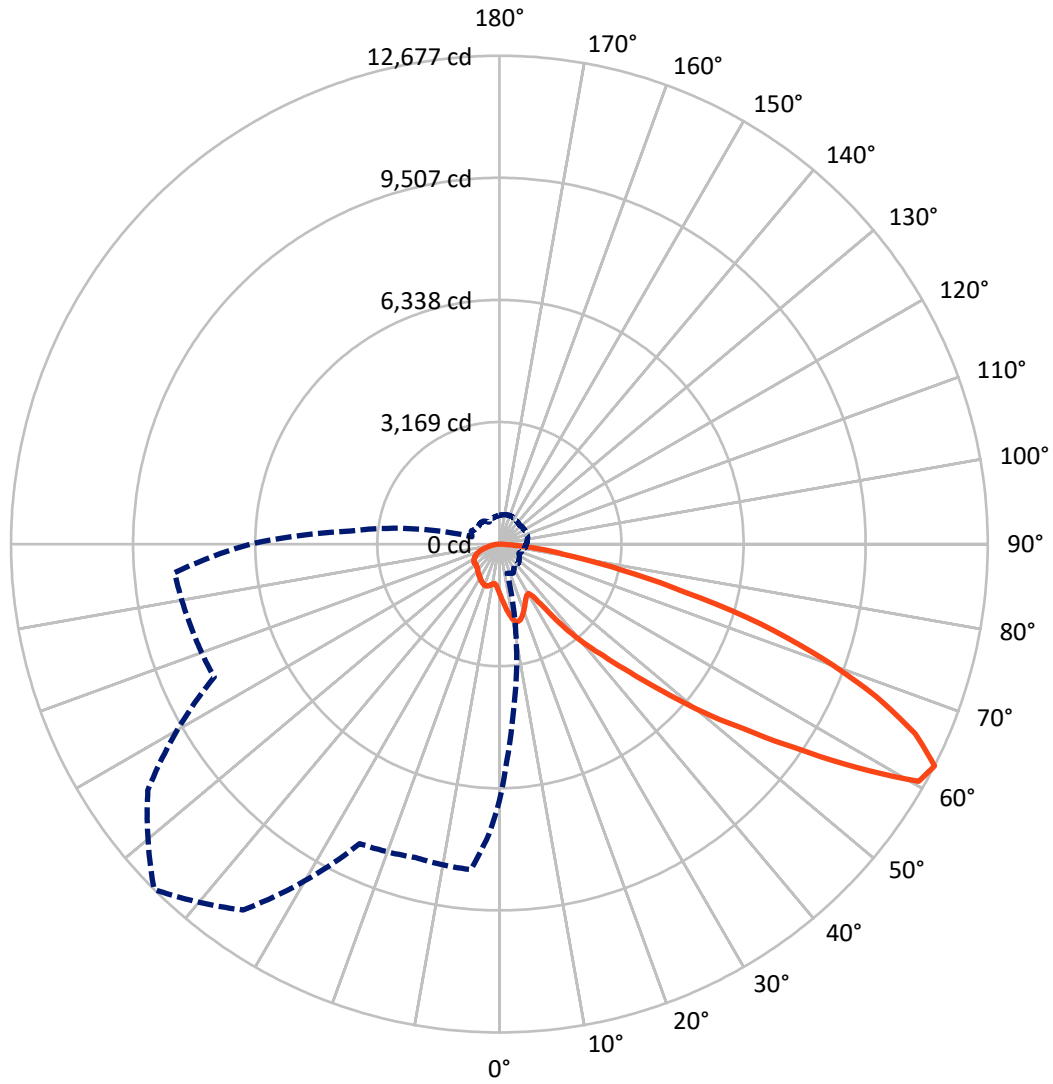
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.3 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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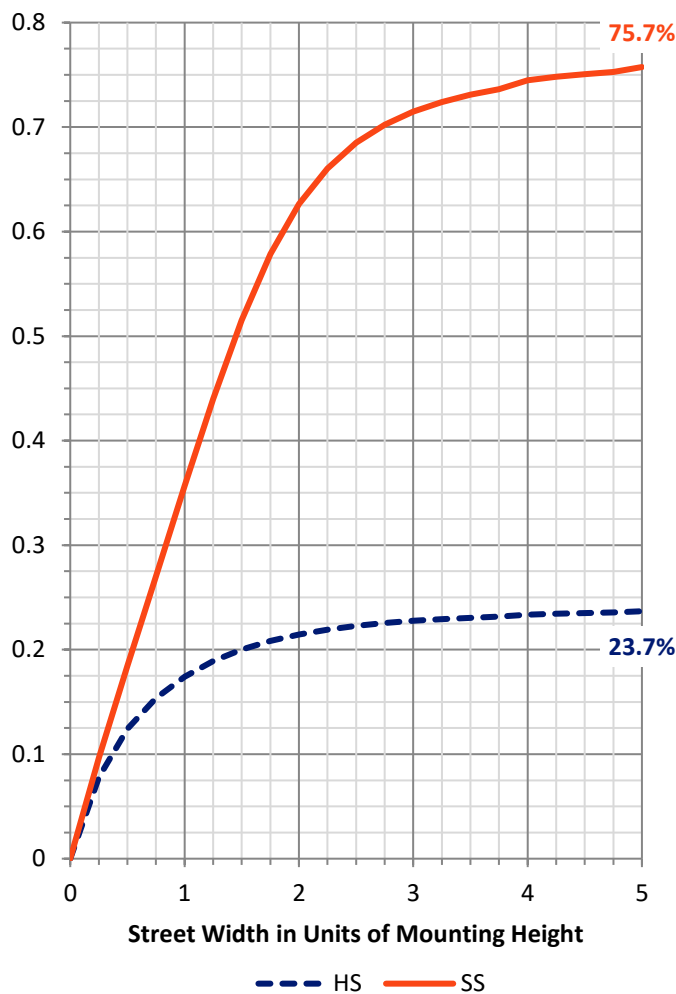
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2483.3	0.0	2483.3
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	7902.5	0.0	7902.5
	% Fixture	76.1	0.0	76.1
Total	Lumens	10385.8	0.0	10385.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.6	1.2
10°-20°	414.6	4.0
20°-30°	652.7	6.3
30°-40°	894.6	8.6
40°-50°	1395.8	13.4
50°-60°	2406.7	23.2
60°-70°	2789.1	26.9
70°-80°	1472.2	14.2
80°-90°	232.6	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°	10385.8	100.0
0°-180°	10385.8	100.0

Coefficient of Utilization





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1294.9	1294.9	1294.9	1294.9	1294.9	1294.9	1294.9	1294.9	1294.9	1294.9	1294.9
2.5°	1406.9	1401.3	1393.4	1366.4	1349.7	1330.6	1310.8	1287.7	1261.5	1243.3	1225.0
5°	1526.1	1517.3	1498.3	1433.9	1389.4	1341.0	1300.5	1254.4	1209.1	1178.1	1147.1
7.5°	1640.5	1629.3	1599.9	1501.4	1429.2	1359.2	1298.1	1231.3	1163.8	1117.7	1081.2
10°	1754.9	1731.8	1694.5	1565.8	1470.5	1389.4	1319.5	1237.7	1147.9	1085.2	1046.2
12.5°	1842.2	1820.8	1780.3	1624.6	1511.8	1410.1	1331.4	1256.0	1179.7	1113.0	1073.3
15°	1924.1	1896.3	1850.2	1679.4	1545.9	1409.3	1307.6	1241.7	1230.5	1213.9	1162.2
17.5°	1982.9	1957.4	1909.8	1723.9	1565.0	1384.7	1241.7	1202.7	1252.8	1303.6	1254.4
20°	2034.5	2005.1	1956.6	1754.9	1569.0	1329.8	1161.4	1162.2	1240.9	1310.8	1298.9
22.5°	2078.2	2045.6	2002.7	1789.8	1567.4	1253.6	1091.5	1139.2	1217.8	1272.7	1274.2
25°	2132.2	2105.2	2069.4	1841.5	1567.4	1175.7	1040.7	1111.4	1178.9	1225.0	1223.4
27.5°	2198.1	2179.9	2150.5	1920.1	1581.7	1110.6	1012.1	1075.6	1128.9	1168.6	1167.8
30°	2272.0	2255.3	2233.1	2003.5	1606.3	1062.1	996.2	1031.1	1070.1	1101.9	1101.9
32.5°	2347.5	2341.1	2317.3	2070.2	1587.2	1047.0	982.7	986.7	1007.3	1033.5	1031.1
35°	2452.4	2446.0	2415.8	2121.9	1504.6	1025.6	961.2	941.4	943.8	960.4	966.0
37.5°	2605.7	2596.1	2551.7	2182.3	1379.9	971.6	926.3	893.7	886.6	893.7	904.0
40°	2790.8	2776.5	2716.1	2264.1	1236.1	898.5	871.5	844.5	832.5	834.9	846.8
42.5°	3022.7	2992.6	2906.0	2350.7	1093.9	834.1	810.3	793.6	780.1	778.5	801.6
45°	3399.3	3316.7	3179.2	2427.7	974.0	800.0	755.5	743.6	732.4	738.8	765.8
47.5°	4057.1	3904.5	3636.8	2493.7	900.9	800.8	711.8	699.1	698.3	711.0	741.2
50°	4961.1	4741.1	4328.0	2538.2	862.7	810.3	685.6	664.9	680.0	692.7	721.3
52.5°	5827.0	5491.0	4999.2	2537.4	846.1	811.9	692.7	633.1	680.0	683.2	710.2
55°	6566.6	5958.1	5180.4	2276.8	822.2	805.5	720.5	608.5	671.3	683.2	704.6
57.5°	7154.5	6255.2	5166.9	1839.1	894.5	770.6	737.2	603.0	645.9	684.8	709.4
60°	7089.3	6119.4	4834.0	1128.9	887.4	708.6	734.8	613.3	603.0	663.3	703.9
62.5°	6656.4	5632.4	4261.2	783.3	833.3	672.9	695.9	631.6	563.2	632.4	676.8
65°	6050.3	5004.0	3551.0	600.6	690.3	674.5	630.0	618.8	528.3	583.1	630.8
67.5°	5248.7	4224.7	2803.5	475.9	481.4	583.9	572.0	549.7	495.7	539.4	582.3
70°	3945.9	3083.1	1928.8	382.9	364.6	487.8	514.0	494.1	463.9	476.6	521.9
72.5°	2780.4	2013.0	1056.6	303.5	281.2	375.0	446.5	443.3	409.9	419.5	463.9
75°	2066.3	1424.4	660.2	239.9	228.8	268.5	374.2	383.7	355.9	367.0	401.2
77.5°	1375.1	922.3	367.0	177.9	177.9	196.2	278.8	323.3	302.7	311.4	335.2
80°	758.7	469.5	183.5	116.8	120.0	135.1	203.4	232.8	233.6	255.0	261.4
82.5°	239.9	149.3	81.8	68.3	64.3	77.1	131.1	166.8	155.7	198.6	182.7
85°	54.8	35.0	15.1	15.1	16.7	25.4	50.0	89.0	113.6	136.6	99.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	35.0	51.6	46.1
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°	1294.9	1294.9	1294.9	1294.9	1294.9	1294.9	1294.9	1294.9	1294.9	1294.9	1294.9
2.5°	1213.9	1198.0	1193.2	1179.7	1178.1	1165.4	1160.6	1160.6	1166.2	1166.2	1171.8
5°	1134.4	1114.6	1103.4	1087.6	1083.6	1074.0	1067.7	1068.5	1075.6	1080.4	1089.9
7.5°	1064.5	1051.0	1043.1	1035.9	1034.3	1032.7	1025.6	1024.8	1027.2	1034.3	1041.5
10°	1035.1	1025.6	1028.0	1033.5	1042.3	1047.0	1040.7	1037.5	1035.1	1039.9	1046.2
12.5°	1063.7	1054.2	1059.0	1068.5	1080.4	1085.2	1082.8	1082.0	1084.4	1102.6	1116.2
15°	1126.5	1108.2	1101.9	1105.8	1115.4	1120.1	1117.7	1120.9	1136.0	1183.7	1217.8
17.5°	1204.3	1159.8	1134.4	1127.3	1131.2	1135.2	1135.2	1143.2	1169.4	1239.3	1282.2
20°	1246.4	1188.4	1145.5	1128.1	1129.7	1133.6	1133.6	1144.8	1174.1	1248.8	1276.6
22.5°	1235.3	1182.1	1129.7	1110.6	1111.4	1114.6	1114.6	1124.1	1150.3	1216.2	1229.0
25°	1191.6	1144.8	1093.1	1076.4	1078.0	1083.6	1082.0	1087.6	1107.4	1161.4	1168.6
27.5°	1139.2	1097.9	1047.0	1034.3	1041.5	1052.6	1043.1	1043.9	1062.1	1107.4	1108.2
30°	1082.8	1048.6	1003.3	993.8	1007.3	1012.9	1004.1	1004.1	1022.4	1053.4	1052.6
32.5°	1021.6	1000.2	967.6	957.3	972.4	981.1	970.0	971.6	985.9	1006.5	998.6
35°	964.4	953.3	938.2	931.1	940.6	948.5	941.4	944.6	958.1	963.6	952.5
37.5°	909.6	908.0	909.6	909.6	912.0	914.4	909.6	917.5	929.5	922.3	909.6
40°	861.9	868.3	883.4	879.4	877.0	879.4	876.2	889.7	901.7	888.9	873.9
42.5°	822.2	834.1	857.2	857.2	852.4	854.0	852.4	869.1	877.8	860.3	843.7
45°	788.1	805.5	834.9	838.9	831.0	831.0	834.1	854.8	858.0	834.1	816.7
47.5°	764.2	785.7	819.0	826.2	814.3	813.5	822.2	844.5	844.5	816.7	796.8
50°	747.5	771.4	811.1	820.6	808.7	805.5	819.8	841.3	836.5	803.2	783.3
52.5°	736.4	761.0	810.3	823.8	815.9	812.7	827.0	842.1	830.2	794.4	773.8
55°	729.3	756.3	812.7	823.8	815.1	809.5	823.8	837.3	831.0	789.6	769.8
57.5°	733.2	760.3	809.5	815.1	804.7	795.2	811.9	831.0	828.6	791.2	771.4
60°	726.9	751.5	792.0	793.6	776.1	761.0	785.7	814.3	814.3	785.7	768.2
62.5°	697.5	722.1	757.9	759.5	739.6	722.9	751.5	785.7	784.9	761.8	743.6
65°	649.0	672.1	712.6	716.6	696.7	679.2	708.6	740.4	742.8	722.1	706.2
67.5°	595.8	616.5	646.7	662.5	645.9	627.6	654.6	684.8	684.0	659.4	642.7
70°	532.3	551.3	579.1	592.6	582.3	564.8	589.5	605.3	598.2	586.3	575.2
72.5°	469.5	487.8	514.0	514.0	502.9	486.2	493.3	521.9	530.7	521.9	514.8
75°	403.6	419.5	437.7	441.7	417.1	386.9	420.2	444.9	455.2	451.2	442.5
77.5°	336.0	348.0	375.0	367.8	321.7	305.8	332.9	369.4	376.6	374.2	362.3
80°	259.0	266.1	294.7	280.4	244.7	234.4	246.3	274.9	276.5	268.5	253.4
82.5°	174.0	183.5	202.6	174.8	174.0	164.4	154.9	158.1	172.4	170.8	160.5
85°	89.0	93.7	112.0	104.9	89.8	77.9	73.9	78.6	70.7	64.3	55.6
87.5°	37.3	40.5	55.6	31.0	9.5	0.0	0.0	4.8	7.1	10.3	11.1
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1294.9	1294.9	1294.9	1294.9	1294.9	1294.9	1294.9	1294.9	1294.9	1294.9	1294.9
2.5°	1184.5	1193.2	1214.7	1241.7	1267.9	1294.9	1324.3	1342.6	1364.8	1393.4	1394.2
5°	1101.9	1121.7	1152.7	1194.0	1236.9	1286.2	1343.4	1391.0	1448.2	1493.5	1511.8
7.5°	1051.0	1079.6	1118.5	1171.0	1227.4	1288.5	1363.2	1443.4	1537.2	1597.6	1633.3
10°	1055.8	1099.5	1138.4	1182.9	1233.7	1299.7	1395.8	1502.2	1617.4	1696.9	1741.4
12.5°	1140.8	1186.9	1179.7	1177.3	1211.5	1291.7	1422.0	1561.8	1702.4	1781.9	1835.1
15°	1248.0	1265.5	1198.0	1147.1	1167.8	1263.1	1436.3	1615.0	1773.1	1870.0	1922.5
17.5°	1302.8	1267.9	1186.1	1109.8	1104.2	1219.4	1443.4	1669.1	1852.6	1949.5	2005.1
20°	1277.4	1226.6	1157.5	1085.2	1045.4	1159.8	1439.5	1712.0	1924.9	2032.9	2078.2
22.5°	1222.6	1178.1	1124.1	1055.0	997.8	1094.7	1429.2	1754.9	1989.2	2098.0	2137.8
25°	1163.0	1129.7	1085.2	1024.8	970.8	1037.5	1422.0	1812.1	2063.1	2167.2	2192.6
27.5°	1103.4	1078.8	1042.3	995.4	964.4	997.8	1424.4	1886.7	2158.4	2256.9	2246.6
30°	1044.7	1023.2	997.8	977.1	963.6	988.3	1418.0	1966.2	2263.3	2354.6	2293.5
32.5°	989.0	969.2	953.3	956.5	964.4	992.2	1385.5	2038.5	2359.4	2437.3	2344.3
35°	941.4	920.7	920.7	931.8	961.2	978.7	1301.2	2094.9	2465.9	2543.7	2416.6
37.5°	896.9	878.6	890.5	908.8	936.6	942.2	1193.2	2149.7	2620.8	2693.9	2528.6
40°	858.0	839.7	861.1	884.2	898.5	896.1	1083.6	2225.9	2803.5	2879.0	2677.2
42.5°	827.0	810.3	829.4	858.8	861.1	863.5	1003.3	2299.0	3015.6	3111.7	2933.0
45°	801.6	789.6	799.2	828.6	828.6	865.1	953.3	2360.2	3334.9	3505.0	3402.5
47.5°	781.7	774.6	779.3	788.9	804.7	893.7	921.5	2407.1	3916.5	4250.1	4146.8
50°	770.6	763.4	769.8	749.9	797.6	908.0	911.2	2442.8	4683.1	5205.8	5077.9
52.5°	761.0	758.7	762.6	716.6	813.5	898.5	903.2	2395.2	5197.1	6146.4	6272.7
55°	757.9	759.5	740.4	691.9	832.5	866.7	879.4	2054.4	5336.9	6957.5	7741.6
57.5°	759.5	754.7	706.2	694.3	833.3	803.2	913.6	1465.7	5133.5	7310.2	9178.7
60°	753.9	730.1	664.9	715.8	796.8	728.5	888.9	955.7	4597.3	7039.3	9262.1
62.5°	729.3	694.3	629.2	727.7	731.7	684.0	807.1	736.4	3882.3	6459.4	8458.1
65°	693.5	646.7	599.0	703.1	665.7	663.3	606.9	590.2	3122.0	5769.0	7695.5
67.5°	634.7	587.9	576.7	646.7	599.0	587.9	487.8	489.4	2491.3	5033.4	6928.9
70°	568.0	521.1	529.9	584.7	533.1	488.6	394.8	407.5	1889.9	4193.7	5895.3
72.5°	524.3	461.6	462.3	514.8	468.7	395.6	324.9	336.0	1199.6	3161.0	4687.0
75°	442.5	406.7	389.3	417.1	398.0	308.2	273.3	270.9	711.0	2265.7	3509.7
77.5°	369.4	341.6	332.9	344.0	297.1	228.0	220.1	216.1	402.8	1451.4	2299.8
80°	267.7	260.6	259.8	265.3	228.8	167.6	167.6	168.4	216.9	788.1	1296.5
82.5°	170.0	185.9	164.4	182.7	155.7	119.2	111.2	126.3	124.7	336.0	546.6
85°	70.7	96.9	90.6	96.1	73.9	65.1	69.9	75.5	72.3	129.5	212.9
87.5°	13.5	15.9	17.5	16.7	16.7	20.7	23.0	27.8	27.8	37.3	64.3
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-SA3C-830-U-SLL-W

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1294.9	1294.9	1294.9	1294.9	1294.9	1294.9	1294.9	1294.9	1294.9	1294.9
2.5°	1424.4	1447.4	1442.7	1453.0	1439.5	1444.2	1417.2	1410.1	1405.3	1406.9
5°	1570.6	1617.4	1626.2	1643.6	1631.7	1631.7	1584.1	1548.3	1535.6	1526.1
7.5°	1719.1	1786.6	1831.1	1835.9	1829.5	1816.8	1747.7	1683.4	1660.3	1640.5
10°	1851.0	1932.0	1982.1	2005.9	1994.0	1974.1	1888.3	1800.1	1772.3	1754.9
12.5°	1951.9	2023.4	2056.7	2072.6	2071.0	2063.9	1994.0	1898.6	1869.3	1842.2
15°	2017.0	2052.8	2040.1	2039.3	2050.4	2079.0	2057.5	1982.9	1948.7	1924.1
17.5°	2059.1	2025.0	1968.6	1942.3	1966.2	2033.7	2083.0	2040.8	2009.9	1982.9
20°	2074.2	1952.7	1870.8	1822.4	1850.2	1947.9	2069.4	2083.0	2056.7	2034.5
22.5°	2056.7	1864.5	1753.3	1696.1	1723.1	1839.9	2029.7	2117.1	2099.6	2078.2
25°	2013.8	1772.3	1638.9	1587.2	1616.6	1735.8	1959.0	2148.9	2149.7	2132.2
27.5°	1960.6	1687.3	1558.6	1510.2	1538.8	1650.0	1889.9	2176.7	2204.5	2198.1
30°	1906.6	1636.5	1520.5	1486.3	1507.8	1606.3	1819.2	2205.3	2260.9	2272.0
32.5°	1882.0	1661.1	1610.3	1625.4	1597.6	1631.7	1793.8	2245.8	2329.2	2347.5
35°	1914.5	1879.6	2008.3	2067.9	1969.4	1839.9	1826.4	2307.0	2425.3	2452.4
37.5°	2072.6	2347.5	2539.7	2749.5	2578.7	2293.5	1987.6	2411.0	2562.8	2605.7
40°	2416.6	2755.8	3103.0	3373.9	3115.7	2732.0	2294.3	2566.0	2751.8	2790.8
42.5°	2740.7	3138.7	3617.0	3967.3	3632.1	3090.3	2624.7	2826.5	3001.3	3022.7
45°	3058.5	3514.5	4239.0	4726.0	4270.8	3431.1	2962.4	3266.6	3398.5	3399.3
47.5°	3431.1	3937.9	5019.1	5712.6	5118.4	3808.4	3279.3	3963.3	4146.8	4057.1
50°	3876.7	4358.9	5822.3	6860.6	6151.9	4272.4	3682.1	4812.6	5062.8	4961.1
52.5°	4473.3	4822.9	6707.2	7979.9	7278.4	4800.6	4266.0	5934.3	6016.9	5827.0
55°	5313.0	5492.6	7843.2	9362.2	8536.0	5451.3	5120.0	7342.0	7110.8	6566.6
57.5°	7225.2	6552.3	9301.8	10939.1	9958.8	6633.4	6991.6	8894.3	8072.0	7154.5
60°	8825.1	7839.3	10651.5	12504.1	11178.2	7936.2	8748.9	9164.4	8036.3	7089.3
62.5°	8285.7	8167.4	11138.5	12676.5	11594.5	8577.3	8422.4	8483.5	7512.0	6656.4
65°	7269.7	7534.2	10703.9	11859.0	11132.9	8002.9	7618.4	7854.4	6912.2	6050.3
67.5°	6669.9	6864.5	9931.0	10550.6	10294.0	7381.7	6993.2	6822.4	5981.1	5248.7
70°	6056.6	6217.9	8845.8	8908.6	8985.6	6349.0	5718.2	5209.8	4458.2	3945.9
72.5°	5233.6	5242.3	7473.8	7110.0	7256.2	4968.3	4602.8	3895.0	3245.2	2780.4
75°	4390.7	4150.8	5916.0	4969.9	5263.0	3864.8	3821.9	2935.4	2447.6	2066.3
77.5°	3347.7	3067.2	4321.6	3268.2	3696.4	2573.9	2873.4	1990.8	1722.3	1375.1
80°	2247.4	2072.6	2388.0	1844.6	2418.2	1773.9	1874.0	1128.1	977.9	758.7
82.5°	1185.3	1012.1	1476.0	1093.9	1458.5	974.7	703.1	348.7	297.1	239.9
85°	459.2	531.5	723.7	389.3	565.6	348.0	203.4	86.6	72.3	54.8
87.5°	89.0	137.4	75.5	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.

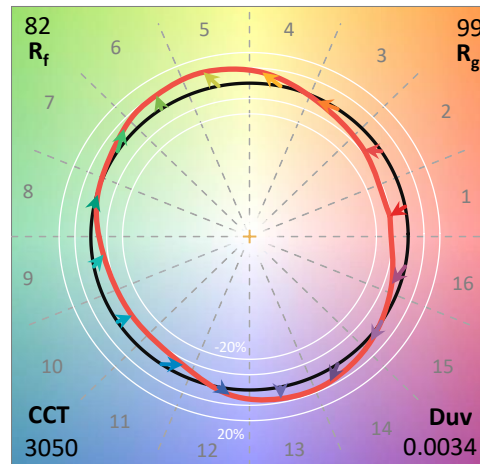
Test Information

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

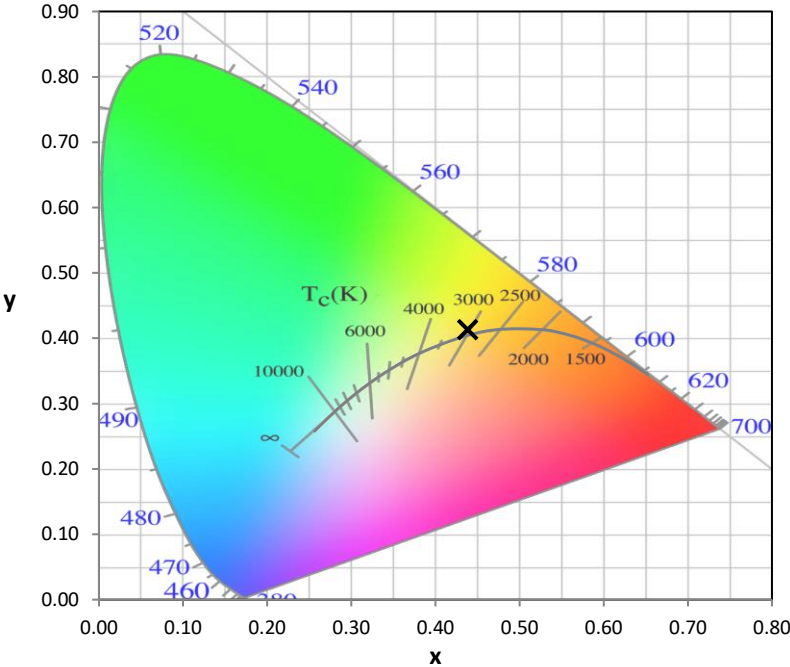
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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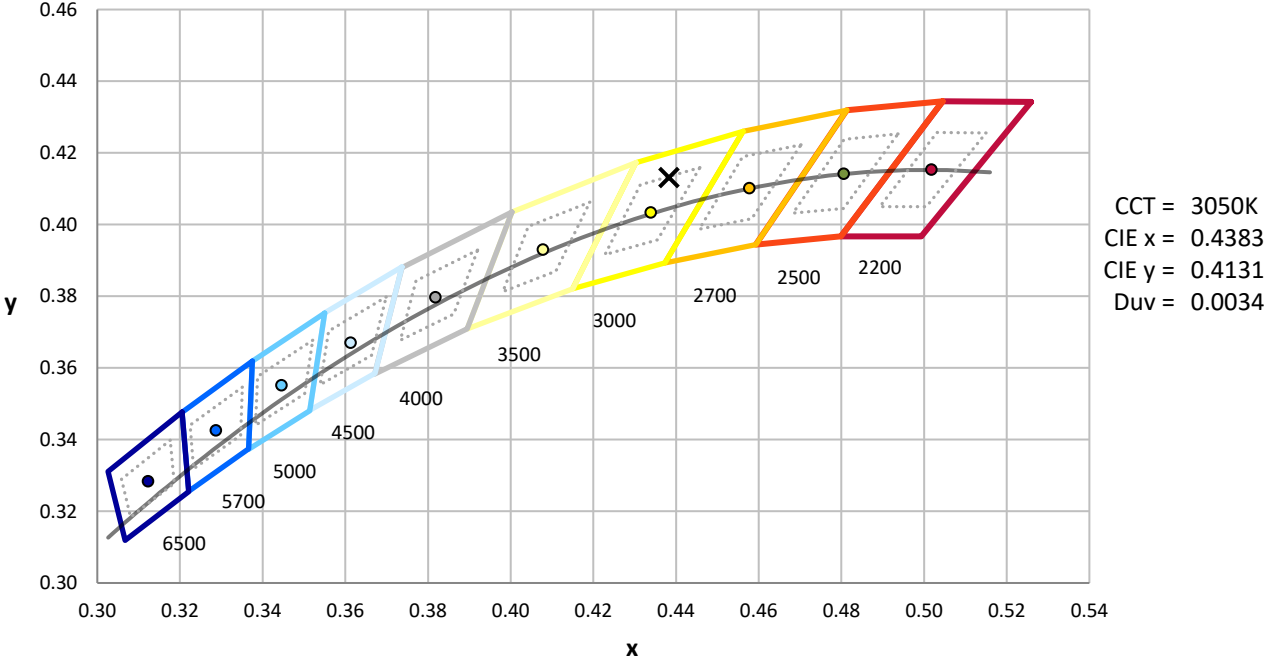
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

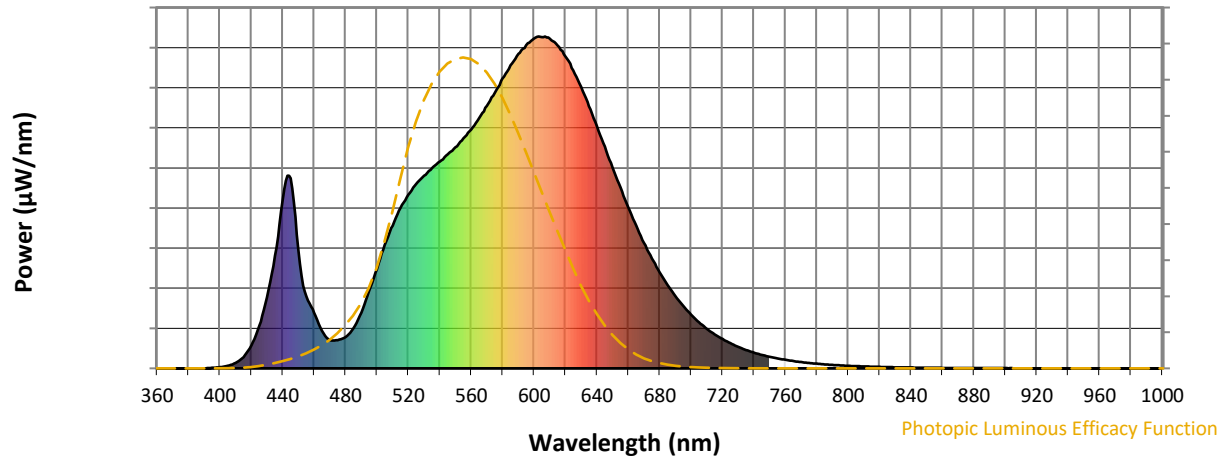


Point lies inside the ANSI 3000K 4-step quadrangle

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

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

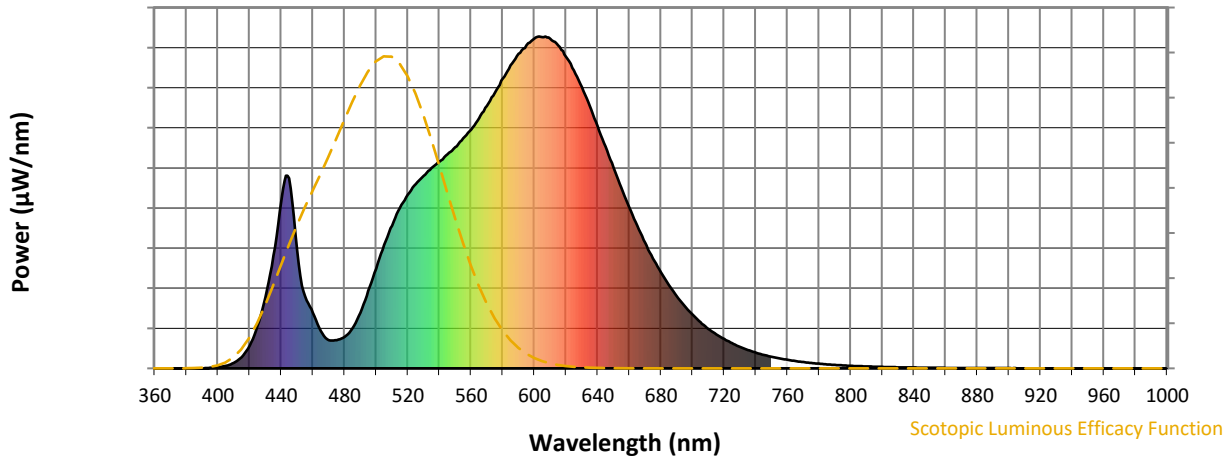


Photopic Lumens: NR

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



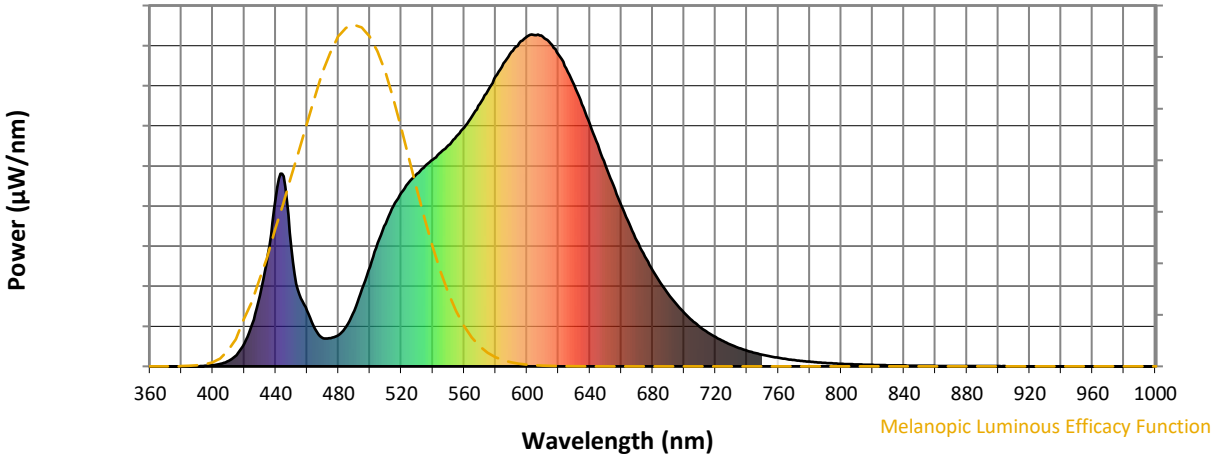
Scotopic Lumens: NR

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



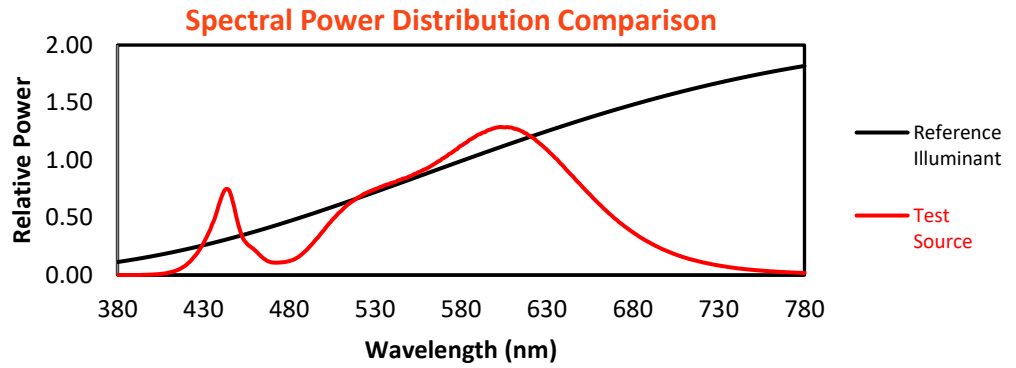
Melanopic Lumens: NR

M/P: 2.32

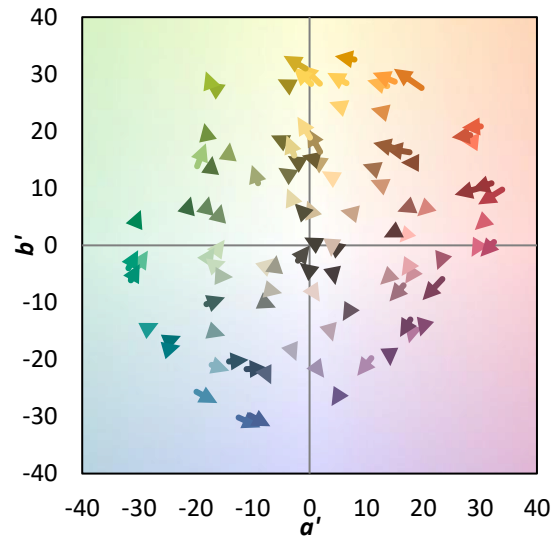
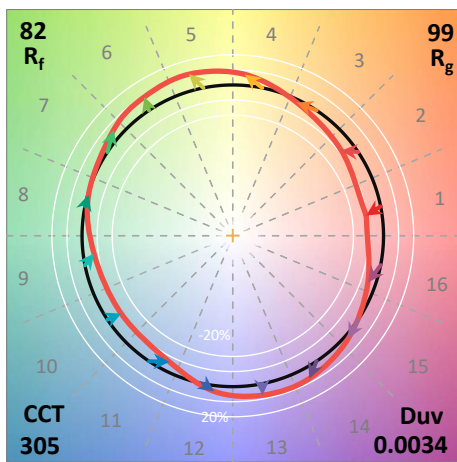
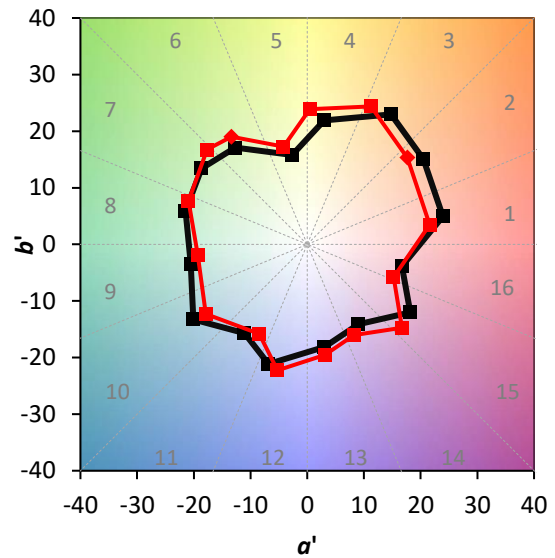
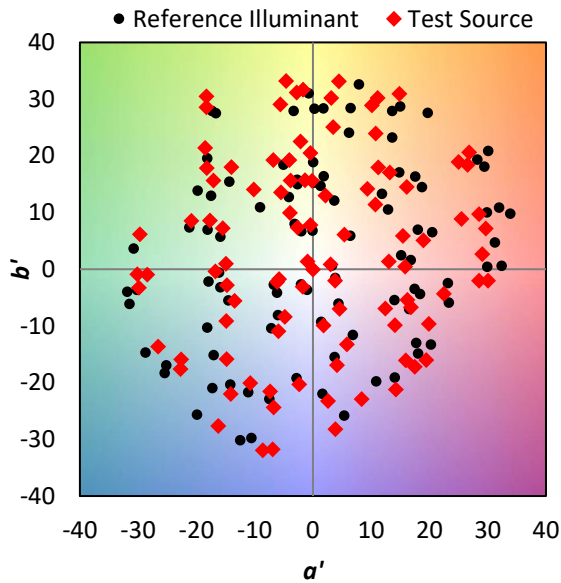
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	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

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

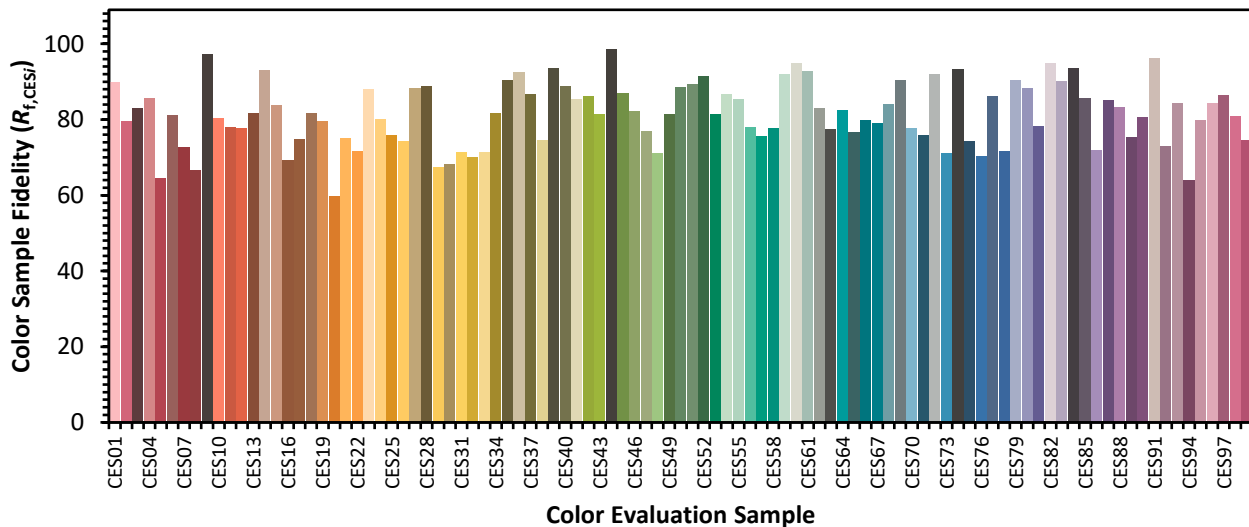


Color Vector Graphics

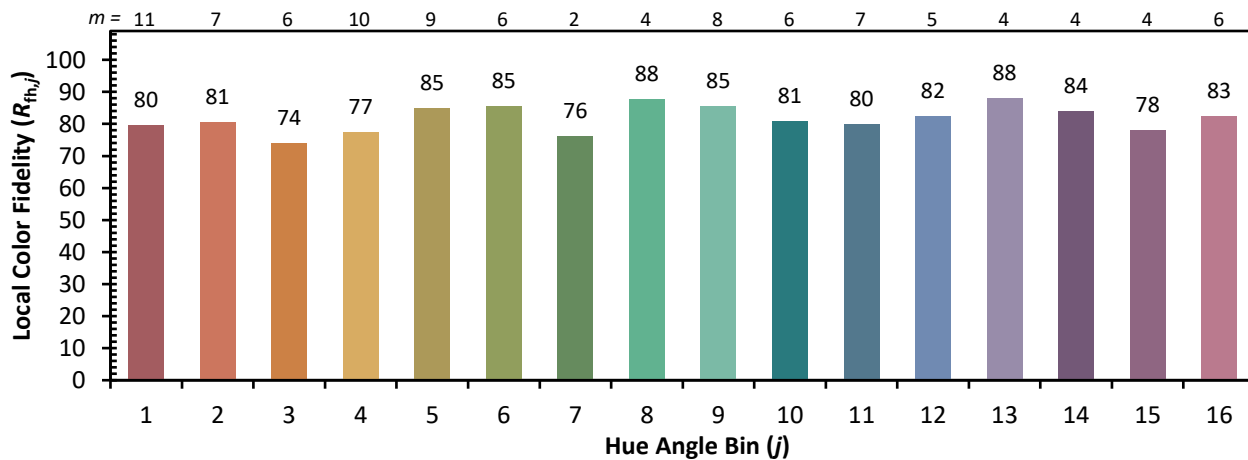
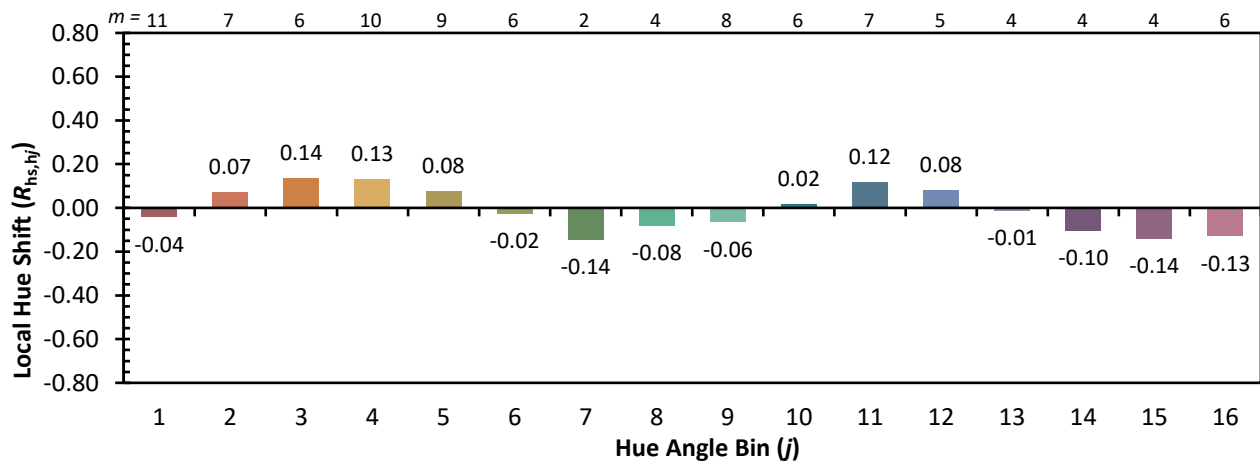
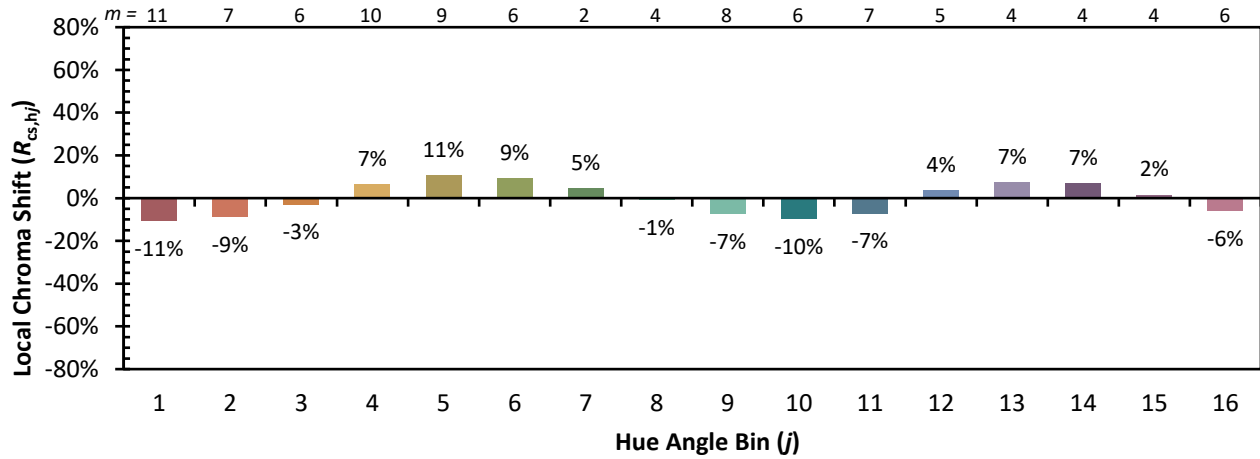


Individual Sample Fidelity Index ($R_{f,i}$)

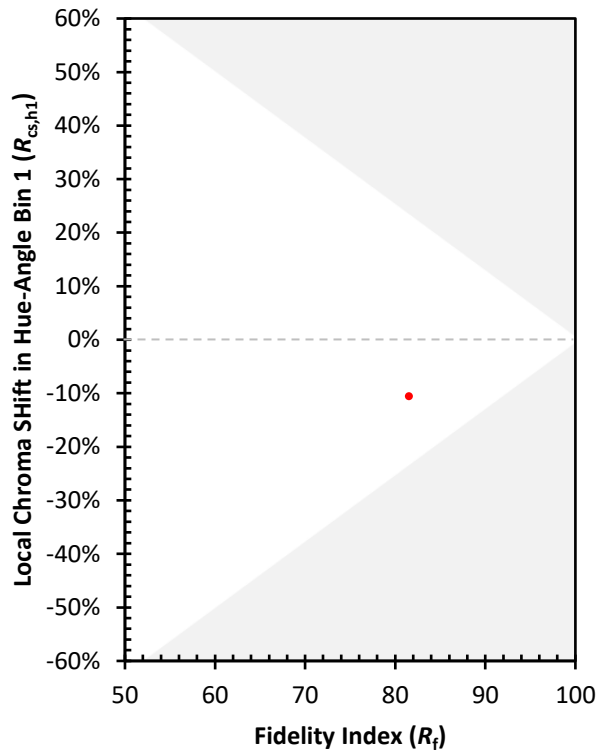
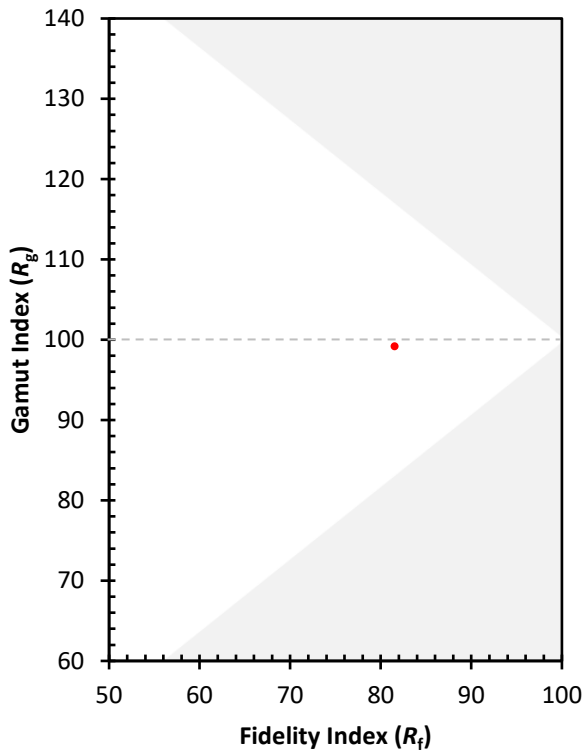
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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