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

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Scaled data based on original data using

LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P1198439

Luminaire Tested: GPC-SB1C-830-U-SLL

Issue Date: 10/30/2025

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1198439
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-8)
Test Lab:	INNOVATION CENTER
Issue Date:	3/15/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GPC-SB1C-830-U-SLL
Description:	GALLEON PEDESTRIAN LUMINAIRE
	(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6741 lumens
Efficiency:	N/A
Efficacy:	123.9 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G3

Input Watts (W):	54.4
Input Voltage (V):	120.0
Input Current (Ain):	0.437
Voltage Rise (V):	NR
Power Factor:	0.993
Total Harmonic Distortion (THDi):	9.314
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

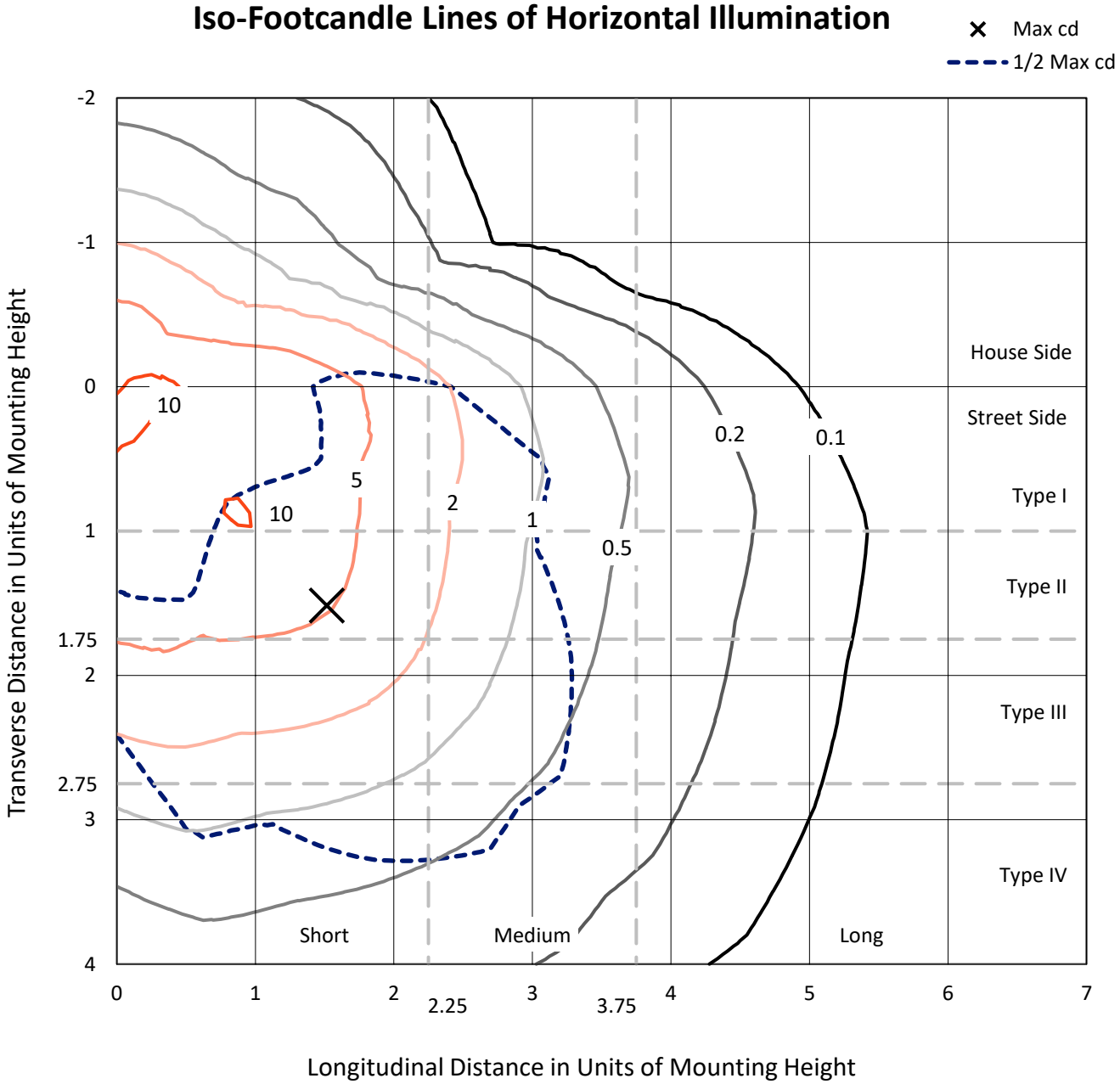


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Iso-Footcandle Lines of Horizontal Illumination



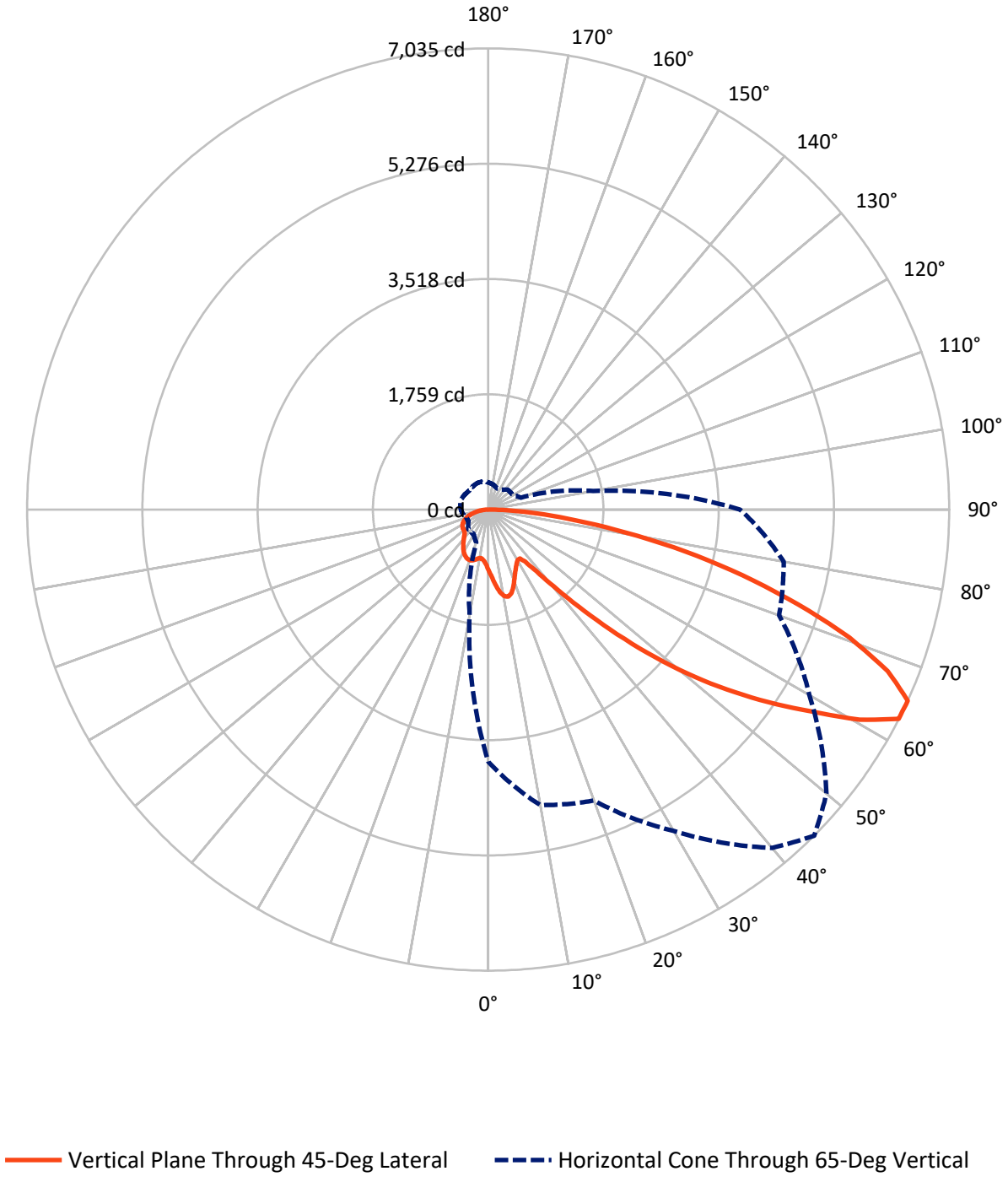
Based on 10 foot mounting height. Maximum calculated value = 12.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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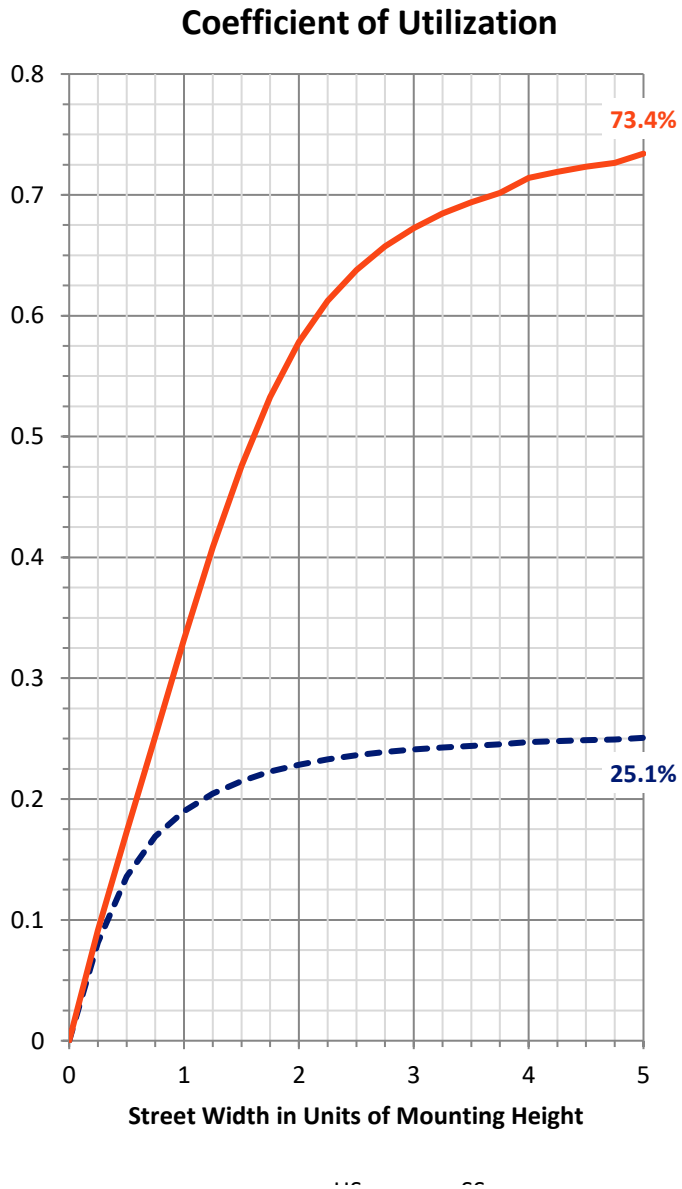
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1713.2	0.0	1713.2
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	5027.8	0.0	5027.8
	% Fixture	74.6	0.0	74.6
Total	Lumens	6741.0	0.0	6741.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	1.4
10°-20°	288.7	4.3
20°-30°	445.9	6.6
30°-40°	565.0	8.4
40°-50°	852.2	12.6
50°-60°	1376.9	20.4
60°-70°	1716.5	25.5
70°-80°	1125.6	16.7
80°-90°	278.3	4.1
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°	6741.0	100.0
0°-180°	6741.0	100.0



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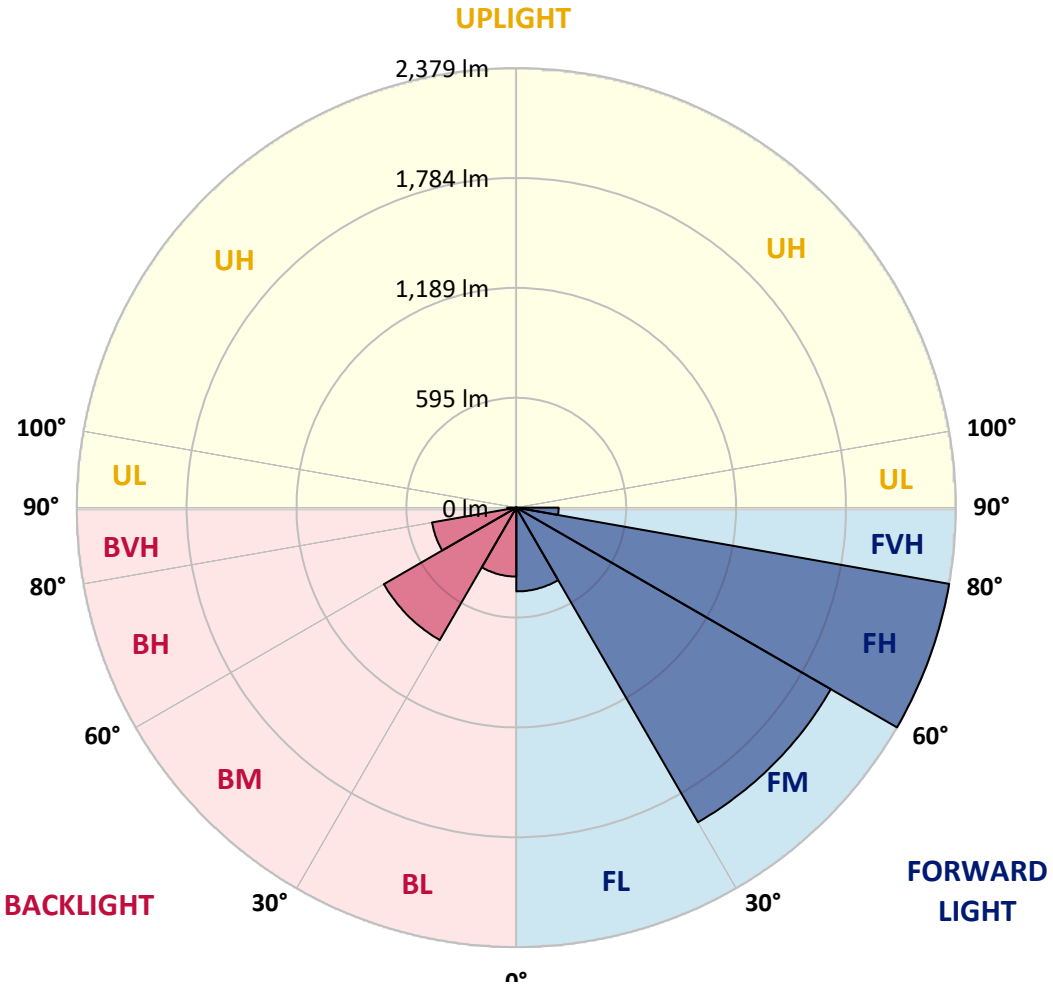
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	453.4	6.7			
FM	(30°-60°)	1966.2	29.2			
FH	(60°-80°)	2378.9	35.3			G2/5000
FVH	(80°-90°)	229.2	3.4			G3/500
BL	(0°-30°)	373.1	5.5	B1/500		
BM	(30°-60°)	827.9	12.3	B1/1000		
BH	(60°-80°)	463.2	6.9	B1/500		G1/500
BVH	(80°-90°)	49.0	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	926.9	926.9	926.9	926.9	926.9	926.9	926.9	926.9	926.9	*926.9*	926.9
2.5°	996.8	1000.6	1004.4	1009.8	1015.2	1018.4	1021.6	1023.2	1024.8	*1024.1*	1024.8
5°	1071.9	1085.1	1098.3	1111.4	1124.5	1131.6	1138.8	1143.1	1147.4	*1150.7*	1147.4
7.5°	1147.3	1168.8	1190.2	1209.5	1228.9	1240.5	1252.1	1258.4	1264.7	*1267.7*	1264.7
10°	1205.1	1230.5	1255.9	1278.6	1301.2	1314.9	1328.6	1334.7	1340.8	*1343.1*	1340.8
12.5°	1240.5	1268.0	1295.5	1316.0	1336.4	1346.4	1356.3	1359.7	1363.0	*1363.4*	1363.0
15°	1262.0	1285.8	1309.5	1322.3	1335.2	1335.6	1335.9	1332.4	1328.8	*1324.6*	1328.8
17.5°	1274.1	1290.1	1306.2	1306.4	1306.7	1292.2	1277.8	1264.6	1251.4	*1242.1*	1251.4
20°	1287.4	1293.0	1298.6	1281.8	1264.9	1233.1	1201.3	1178.1	1154.9	*1140.7*	1154.9
22.5°	1302.9	1295.6	1288.3	1253.3	1218.3	1171.5	1124.7	1095.8	1066.8	*1051.1*	1066.8
25°	1322.8	1299.7	1276.6	1223.5	1170.3	1113.5	1056.7	1026.3	995.9	*981.0*	995.9
27.5°	1349.9	1308.5	1267.2	1196.8	1126.4	1063.5	1000.5	970.6	940.6	*926.6*	940.6
30°	1386.3	1324.7	1263.1	1176.4	1089.8	1024.2	958.6	930.8	903.0	*890.0*	903.0
32.5°	1429.4	1345.0	1260.6	1162.6	1064.5	1002.9	941.2	919.4	897.6	*888.2*	897.6
35°	1481.7	1378.4	1275.1	1172.9	1070.8	1028.0	985.2	980.1	975.0	*974.3*	975.0
37.5°	1569.7	1448.2	1326.7	1233.8	1141.0	1138.2	1135.5	1158.7	1182.0	*1194.1*	1182.0
40°	1702.7	1570.6	1438.4	1369.4	1300.4	1349.1	1397.8	1454.4	1510.9	*1539.1*	1510.9
42.5°	1879.1	1748.0	1616.9	1577.2	1537.4	1643.7	1750.0	1852.8	1955.7	*2016.1*	1955.7
45°	2097.0	1979.2	1861.4	1843.9	1826.3	1996.6	2166.9	2335.9	2505.0	*2607.6*	2505.0
47.5°	2369.5	2254.9	2140.3	2136.7	2133.2	2378.8	2624.4	2871.9	3119.3	*3264.6*	3119.3
50°	2726.6	2585.1	2443.6	2444.2	2444.8	2761.3	3077.9	3404.6	3731.2	*3928.7*	3731.2
52.5°	3136.5	2965.2	2793.8	2776.5	2759.1	3137.3	3515.4	3919.6	4323.7	*4560.4*	4323.7
55°	3573.0	3403.7	3234.3	3166.8	3099.3	3520.1	3940.9	4422.7	4904.5	*5186.1*	4904.5
57.5°	3969.9	3877.7	3785.5	3650.0	3514.6	3939.5	4364.5	4910.2	5455.9	*5805.0*	5455.9
60°	4209.8	4353.1	4496.3	4328.0	4159.8	4562.0	4964.1	5548.4	6132.6	*6510.0*	6132.6
62.5°	4088.0	4479.3	4870.6	4851.7	4832.7	5201.1	5569.5	6125.4	6681.2	*7030.0*	6681.2
65°	*3844.2*	*4211.4*	*4578.7*	*4651.4*	*4724.0*	*5192.2*	*5660.4*	*6199.4*	*6738.4*	*7035.3*	*6738.4*
67.5°	3517.5	3866.8	4216.1	4250.1	4284.2	4772.0	5259.8	5801.1	6342.4	*6575.1*	6342.4
70°	3125.0	3504.9	3884.8	3900.1	3915.3	4351.6	4787.7	5253.6	5719.4	*5848.7*	5719.4
72.5°	2657.2	3093.2	3529.2	3540.2	3551.1	3892.4	4233.7	4582.6	4931.4	*4944.5*	4931.4
75°	2065.5	2516.8	2968.0	3008.5	3049.0	3314.6	3580.1	3825.7	4071.3	*4005.5*	4071.3
77.5°	1475.8	1897.0	2318.3	2376.2	2434.2	2636.1	2837.9	3012.1	3186.3	*3073.2*	3186.3
80°	965.9	1320.3	1674.6	1746.7	1818.7	1971.2	2123.6	2215.1	2306.5	*2124.6*	2306.5
82.5°	561.5	803.7	1046.0	1126.5	1207.1	1312.0	1416.9	1455.1	1493.2	*1350.2*	1493.2
85°	247.0	375.6	504.2	572.7	641.1	727.4	813.5	835.2	856.9	*742.3*	856.9
87.5°	76.5	119.7	162.9	201.1	239.3	282.4	325.5	327.4	329.2	*276.4*	329.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	926.9	926.9	926.9	926.9	926.9	926.9	926.9	926.9	926.9	926.9	926.9
2.5°	1023.2	1021.6	1018.4	1015.2	1009.8	1004.4	1000.6	996.8	989.2	981.5	973.4
5°	1143.1	1138.8	1131.6	1124.5	1111.4	1098.3	1085.1	1071.9	1055.0	1038.1	1021.2
7.5°	1258.4	1252.1	1240.5	1228.9	1209.5	1190.2	1168.8	1147.3	1119.4	1091.6	1065.8
10°	1334.7	1328.6	1314.9	1301.2	1278.6	1255.9	1230.5	1205.1	1169.9	1134.6	1100.6
12.5°	1359.7	1356.3	1346.4	1336.4	1316.0	1295.5	1268.0	1240.5	1201.8	1163.1	1124.5
15°	1332.4	1335.9	1335.6	1335.2	1322.3	1309.5	1285.8	1262.0	1221.6	1181.3	1139.4
17.5°	1264.6	1277.8	1292.2	1306.7	1306.4	1306.2	1290.1	1274.1	1233.2	1192.2	1146.6
20°	1178.1	1201.3	1233.1	1264.9	1281.8	1298.6	1293.0	1287.4	1244.9	1202.3	1152.2
22.5°	1095.8	1124.7	1171.5	1218.3	1253.3	1288.3	1295.6	1302.9	1259.5	1215.9	1159.7
25°	1026.3	1056.7	1113.5	1170.3	1223.5	1276.6	1299.7	1322.8	1280.2	1237.6	1173.4
27.5°	970.6	1000.5	1063.5	1126.4	1196.8	1267.2	1308.5	1349.9	1309.2	1268.6	1194.7
30°	930.8	958.6	1024.2	1089.8	1176.4	1263.1	1324.7	1386.3	1347.1	1307.8	1222.4
32.5°	919.4	941.2	1002.9	1064.5	1162.6	1260.6	1345.0	1429.4	1390.5	1351.6	1251.2
35°	980.1	985.2	1028.0	1070.8	1172.9	1275.1	1378.4	1481.7	1444.4	1407.2	1284.1
37.5°	1158.7	1135.5	1138.2	1141.0	1233.8	1326.7	1448.2	1569.7	1522.2	1474.8	1320.9
40°	1454.4	1397.8	1349.1	1300.4	1369.4	1438.4	1570.6	1702.7	1633.6	1564.4	1367.6
42.5°	1852.8	1750.0	1643.7	1537.4	1577.2	1616.9	1748.0	1879.1	1779.3	1679.5	1428.8
45°	2335.9	2166.9	1996.6	1826.3	1843.9	1861.4	1979.2	2097.0	1962.4	1827.7	1509.2
47.5°	2871.9	2624.4	2378.8	2133.2	2136.7	2140.3	2254.9	2369.5	2180.0	1990.5	1594.9
50°	3404.6	3077.9	2761.3	2444.8	2444.2	2443.6	2585.1	2726.6	2440.9	2155.2	1674.5
52.5°	3919.6	3515.4	3137.3	2759.1	2776.5	2793.8	2965.2	3136.5	2715.0	2293.5	1726.1
55°	4422.7	3940.9	3520.1	3099.3	3166.8	3234.3	3403.7	3573.0	2958.0	2343.2	1714.7
57.5°	4910.2	4364.5	3939.5	3514.6	3650.0	3785.5	3877.7	3969.9	3130.3	2290.6	1634.6
60°	5548.4	4964.1	4562.0	4159.8	4328.0	4496.3	4353.1	4209.8	3173.3	2136.7	1485.6
62.5°	6125.4	5569.5	5201.1	4832.7	4851.7	4870.6	4479.3	4088.0	2992.1	1896.1	1284.0
65°	*6199.4*	*5660.4*	*5192.2*	*4724.0*	*4651.4*	*4578.7*	*4211.4*	*3844.2*	*2735.7*	*1627.1*	*1078.3*
67.5°	5801.1	5259.8	4772.0	4284.2	4250.1	4216.1	3866.8	3517.5	2430.5	1343.5	876.9
70°	5253.6	4787.7	4351.6	3915.3	3900.1	3884.8	3504.9	3125.0	2097.5	1070.1	690.4
72.5°	4582.6	4233.7	3892.4	3551.1	3540.2	3529.2	3093.2	2657.2	1736.6	816.0	527.8
75°	3825.7	3580.1	3314.6	3049.0	3008.5	2968.0	2516.8	2065.5	1322.8	580.1	383.1
77.5°	3012.1	2837.9	2636.1	2434.2	2376.2	2318.3	1897.0	1475.8	925.8	375.9	259.6
80°	2215.1	2123.6	1971.2	1818.7	1746.7	1674.6	1320.3	965.9	596.5	227.1	167.2
82.5°	1455.1	1416.9	1312.0	1207.1	1126.5	1046.0	803.7	561.5	345.2	129.0	102.9
85°	835.2	813.5	727.4	641.1	572.7	504.2	375.6	247.0	155.3	63.6	55.0
87.5°	327.4	325.5	282.4	239.3	201.1	162.9	119.7	76.5	50.9	25.3	22.8
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	926.9	926.9	926.9	926.9	926.9	926.9	926.9	926.9	926.9	926.9	926.9
2.5°	965.3	957.1	948.9	941.1	933.3	925.7	917.3	910.4	903.6	897.5	891.4
5°	1004.4	987.4	970.5	954.7	938.9	923.9	909.2	896.3	883.4	872.6	861.8
7.5°	1040.1	1015.0	989.9	967.8	945.7	925.3	906.2	889.1	872.0	857.8	843.5
10°	1066.6	1036.1	1005.6	979.5	953.3	928.2	907.7	889.6	871.5	857.3	843.1
12.5°	1085.9	1050.0	1014.1	984.5	955.0	928.5	909.4	894.6	879.9	870.5	861.1
15°	1097.6	1056.2	1014.9	980.7	946.4	917.2	901.9	894.8	887.7	889.0	890.3
17.5°	1101.0	1052.9	1004.9	963.8	922.6	888.2	878.7	881.3	883.9	899.4	914.9
20°	1102.0	1043.8	985.6	934.6	883.6	843.5	841.0	853.1	865.2	892.2	919.1
22.5°	1103.4	1032.7	961.9	900.4	839.0	793.4	798.3	816.1	834.0	864.8	895.6
25°	1109.1	1021.6	934.2	862.3	790.4	743.6	756.7	777.4	798.0	825.6	853.3
27.5°	1120.8	1014.3	907.7	827.4	747.0	704.5	720.5	740.4	760.3	783.0	805.7
30°	1136.9	1010.8	884.7	798.2	711.7	676.0	688.6	704.4	720.2	739.1	757.9
32.5°	1150.7	1006.6	862.3	773.1	683.8	655.0	660.6	670.0	679.3	694.4	709.4
35°	1160.9	998.5	836.2	748.4	660.5	636.5	634.2	636.8	639.4	650.9	662.3
37.5°	1167.0	984.7	802.5	719.3	636.0	615.0	606.5	603.7	600.8	609.1	617.3
40°	1170.8	965.8	760.8	684.5	608.2	589.2	576.2	569.8	563.4	569.3	575.2
42.5°	1178.0	946.2	714.5	646.2	577.9	560.4	544.0	535.5	527.0	531.8	536.7
45°	1190.7	928.0	665.4	605.5	545.6	527.9	512.0	503.7	495.4	499.5	503.6
47.5°	1199.4	913.0	626.7	573.3	520.0	497.1	483.5	476.5	469.5	473.4	477.2
50°	1193.7	896.7	599.6	552.0	504.3	474.1	458.3	452.1	446.0	451.9	458.0
52.5°	1158.7	869.0	579.4	537.9	496.4	461.7	439.6	433.5	427.4	436.4	445.3
55°	1086.3	823.2	560.2	527.7	495.2	462.9	429.6	419.9	410.3	423.1	435.8
57.5°	978.7	758.6	538.5	515.6	492.6	464.2	423.6	409.5	395.5	409.2	422.9
60°	834.4	674.8	515.1	497.1	479.1	460.3	418.0	399.8	381.5	393.5	405.6
62.5°	671.8	574.4	476.9	464.9	453.0	450.7	411.5	388.6	365.8	373.5	381.1
65°	*529.6*	*484.1*	*438.6*	*432.9*	*427.3*	*427.5*	*397.7*	*373.4*	*349.1*	*352.1*	*355.0*
67.5°	410.2	397.3	384.3	387.5	390.6	389.8	373.1	352.9	332.6	331.7	330.8
70°	310.7	314.4	318.1	332.7	347.3	347.3	341.8	327.5	313.1	309.9	306.7
72.5°	239.7	250.8	262.0	282.7	303.5	307.0	307.0	297.2	287.3	282.6	278.0
75°	186.1	196.2	206.3	229.6	252.8	268.9	267.6	260.0	252.4	247.9	243.4
77.5°	143.3	150.1	157.0	179.6	202.2	228.7	228.0	221.9	215.8	211.3	206.7
80°	107.4	110.3	113.1	132.2	151.3	183.0	182.9	177.8	172.7	168.9	165.0
82.5°	76.8	77.3	77.8	91.9	106.0	133.0	134.5	132.0	129.5	126.8	124.1
85°	46.4	46.2	45.9	56.2	66.5	86.6	88.6	85.9	83.2	80.2	77.2
87.5°	20.3	20.1	19.8	24.0	28.3	36.6	39.1	38.1	37.0	36.4	35.9
90°	0.0	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
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Scaled Data Report

REPORT NUMBER: P1198439
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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	926.9	926.9	926.9	926.9	926.9	926.9	926.9	926.9	926.9	926.9	926.9
2.5°	886.0	880.6	875.2	869.9	865.7	861.5	858.1	854.7	852.1	849.5	847.1
5°	852.2	842.7	834.1	825.4	818.7	812.1	807.4	802.7	799.4	796.1	793.6
7.5°	831.5	819.5	808.9	798.4	790.4	782.5	777.0	771.4	767.6	763.9	761.6
10°	830.2	817.2	805.3	793.4	783.9	774.4	768.2	762.0	758.4	754.8	752.9
12.5°	850.9	840.8	828.5	816.1	804.1	792.0	784.0	776.0	771.9	767.9	766.3
15°	887.7	885.0	874.3	863.6	846.4	829.2	817.0	804.9	799.3	793.7	791.6
17.5°	923.2	931.4	922.7	914.1	891.3	868.5	850.6	832.7	824.4	816.1	813.4
20°	936.4	953.6	949.6	945.6	919.5	893.5	871.5	849.6	839.0	828.4	825.0
22.5°	918.0	940.5	942.9	945.3	920.4	895.5	872.8	850.2	839.1	827.9	824.1
25°	875.4	897.5	905.7	914.0	893.5	873.2	853.0	833.0	823.3	813.7	810.1
27.5°	823.4	841.2	850.3	859.5	845.0	830.5	814.9	799.3	792.8	786.3	784.7
30°	772.6	787.3	794.8	802.3	791.2	780.1	768.9	757.7	754.4	751.1	751.1
32.5°	723.5	737.6	745.9	754.3	744.1	733.9	724.9	716.0	713.8	711.7	712.0
35°	676.3	690.2	700.2	710.1	702.9	695.7	687.4	679.2	675.9	672.6	671.9
37.5°	631.2	645.2	657.5	669.8	666.4	663.1	655.5	647.9	641.9	635.9	632.7
40°	588.7	602.1	616.3	630.5	631.3	632.1	625.6	619.2	610.4	601.8	595.9
42.5°	549.4	562.2	577.5	592.8	596.9	600.9	595.5	590.1	579.3	568.4	559.8
45°	515.7	527.8	543.6	559.5	565.4	571.2	566.3	561.5	549.1	536.7	526.6
47.5°	489.0	500.8	516.5	532.1	538.9	545.6	542.2	538.8	527.8	516.8	507.4
50°	469.1	480.3	494.3	508.3	517.0	525.6	525.4	525.3	516.5	507.7	499.0
52.5°	455.6	465.8	478.8	491.9	502.2	512.5	514.3	516.2	509.0	501.8	494.1
55°	446.8	457.9	469.3	480.7	491.6	502.5	505.1	507.7	501.4	495.1	488.4
57.5°	435.9	448.8	460.1	471.5	482.5	493.4	496.0	498.6	492.3	486.0	479.3
60°	420.4	435.3	446.8	458.3	469.3	480.4	483.2	486.1	479.9	473.7	466.8
62.5°	398.5	415.8	428.1	440.4	450.5	460.6	463.3	466.0	460.4	454.9	447.6
65°	*373.6*	*392.2*	*403.9*	*415.6*	*424.5*	*433.4*	*436.2*	*439.0*	*433.6*	*428.3*	*421.2*
67.5°	347.9	365.1	376.3	387.4	395.0	402.7	405.5	408.2	403.2	398.3	391.8
70°	321.8	336.8	346.4	356.1	363.0	369.9	372.6	375.2	371.2	367.2	360.9
72.5°	289.9	301.7	310.4	319.1	325.9	332.6	335.8	338.9	335.6	332.2	326.2
75°	252.2	261.0	268.9	276.7	282.9	289.1	292.4	295.7	294.0	292.4	287.4
77.5°	213.9	221.1	227.8	234.6	241.1	247.6	250.6	253.7	251.4	249.1	244.0
80°	171.0	177.0	182.7	188.3	193.3	198.2	202.2	206.3	205.3	204.3	197.6
82.5°	123.6	123.1	121.2	119.2	129.7	140.2	147.1	154.0	153.6	153.1	147.4
85°	74.6	72.0	66.5	61.0	70.9	80.7	89.3	97.8	97.1	96.4	91.9
87.5°	35.7	35.6	31.4	27.2	31.3	35.5	38.9	42.4	41.5	40.6	38.3
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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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	926.9	926.9	926.9	926.9	926.9	926.9	926.9	926.9	926.9	926.9	926.9
2.5°	844.6	841.6	844.6	847.1	849.5	852.1	854.7	858.1	861.5	865.7	869.9
5°	791.1	788.6	791.1	793.6	796.1	799.4	802.7	807.4	812.1	818.7	825.4
7.5°	759.3	757.6	759.3	761.6	763.9	767.6	771.4	777.0	782.5	790.4	798.4
10°	750.9	750.2	750.9	752.9	754.8	758.4	762.0	768.2	774.4	783.9	793.4
12.5°	764.7	764.4	764.7	766.3	767.9	771.9	776.0	784.0	792.0	804.1	816.1
15°	789.5	789.3	789.5	791.6	793.7	799.3	804.9	817.0	829.2	846.4	863.6
17.5°	810.7	810.3	810.7	813.4	816.1	824.4	832.7	850.6	868.5	891.3	914.1
20°	821.7	820.6	821.7	825.0	828.4	839.0	849.6	871.5	893.5	919.5	945.6
22.5°	820.4	818.8	820.4	824.1	827.9	839.1	850.2	872.8	895.5	920.4	945.3
25°	806.6	804.6	806.6	810.1	813.7	823.3	833.0	853.0	873.2	893.5	914.0
27.5°	783.1	782.5	783.1	784.7	786.3	792.8	799.3	814.9	830.5	845.0	859.5
30°	751.1	751.6	751.1	751.1	751.1	754.4	757.7	768.9	780.1	791.2	802.3
32.5°	712.3	712.8	712.3	712.0	711.7	713.8	716.0	724.9	733.9	744.1	754.3
35°	671.2	670.8	671.2	671.9	672.6	675.9	679.2	687.4	695.7	702.9	710.1
37.5°	629.6	627.8	629.6	632.7	635.9	641.9	647.9	655.5	663.1	666.4	669.8
40°	590.0	586.5	590.0	595.9	601.8	610.4	619.2	625.6	632.1	631.3	630.5
42.5°	551.3	545.6	551.3	559.8	568.4	579.3	590.1	595.5	600.9	596.9	592.8
45°	516.5	510.1	516.5	526.6	536.7	549.1	561.5	566.3	571.2	565.4	559.5
47.5°	498.2	491.9	498.2	507.4	516.8	527.8	538.8	542.2	545.6	538.9	532.1
50°	490.4	484.5	490.4	499.0	507.7	516.5	525.3	525.4	525.6	517.0	508.3
52.5°	486.4	480.9	486.4	494.1	501.8	509.0	516.2	514.3	512.5	502.2	491.9
55°	481.6	476.6	481.6	488.4	495.1	501.4	507.7	505.1	502.5	491.6	480.7
57.5°	472.5	467.4	472.5	479.3	486.0	492.3	498.6	496.0	493.4	482.5	471.5
60°	459.9	454.6	459.9	466.8	473.7	479.9	486.1	483.2	480.4	469.3	458.3
62.5°	440.4	433.9	440.4	447.6	454.9	460.4	466.0	463.3	460.6	450.5	440.4
65°	*414.2*	*408.7*	*414.2*	*421.2*	*428.3*	*433.6*	*439.0*	*436.2*	*433.4*	*424.5*	*415.6*
67.5°	385.2	380.2	385.2	391.8	398.3	403.2	408.2	405.5	402.7	395.0	387.4
70°	354.6	348.9	354.6	360.9	367.2	371.2	375.2	372.6	369.9	363.0	356.1
72.5°	320.3	314.8	320.3	326.2	332.2	335.6	338.9	335.8	332.6	325.9	319.1
75°	282.4	277.1	282.4	287.4	292.4	294.0	295.7	292.4	289.1	282.9	276.7
77.5°	239.0	234.8	239.0	244.0	249.1	251.4	253.7	250.6	247.6	241.1	234.6
80°	190.7	182.8	190.7	197.6	204.3	205.3	206.3	202.2	198.2	193.3	188.3
82.5°	141.6	136.6	141.6	147.4	153.1	153.6	154.0	147.1	140.2	129.7	119.2
85°	87.4	82.9	87.4	91.9	96.4	97.1	97.8	89.3	80.7	70.9	61.0
87.5°	36.0	33.8	36.0	38.3	40.6	41.5	42.4	38.9	35.5	31.3	27.2
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):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	926.9	926.9	926.9	926.9	926.9	926.9	926.9	926.9	926.9	926.9	926.9
2.5°	875.2	880.6	886.0	891.4	897.5	903.6	910.4	917.3	925.7	933.3	941.1
5°	834.1	842.7	852.2	861.8	872.6	883.4	896.3	909.2	923.9	938.9	954.7
7.5°	808.9	819.5	831.5	843.5	857.8	872.0	889.1	906.2	925.3	945.7	967.8
10°	805.3	817.2	830.2	843.1	857.3	871.5	889.6	907.7	928.2	953.3	979.5
12.5°	828.5	840.8	850.9	861.1	870.5	879.9	894.6	909.4	928.5	955.0	984.5
15°	874.3	885.0	887.7	890.3	889.0	887.7	894.8	901.9	917.2	946.4	980.7
17.5°	922.7	931.4	923.2	914.9	899.4	883.9	881.3	878.7	888.2	922.6	963.8
20°	949.6	953.6	936.4	919.1	892.2	865.2	853.1	841.0	843.5	883.6	934.6
22.5°	942.9	940.5	918.0	895.6	864.8	834.0	816.1	798.3	793.4	839.0	900.4
25°	905.7	897.5	875.4	853.3	825.6	798.0	777.4	756.7	743.6	790.4	862.3
27.5°	850.3	841.2	823.4	805.7	783.0	760.3	740.4	720.5	704.5	747.0	827.4
30°	794.8	787.3	772.6	757.9	739.1	720.2	704.4	688.6	676.0	711.7	798.2
32.5°	745.9	737.6	723.5	709.4	694.4	679.3	670.0	660.6	655.0	683.8	773.1
35°	700.2	690.2	676.3	662.3	650.9	639.4	636.8	634.2	636.5	660.5	748.4
37.5°	657.5	645.2	631.2	617.3	609.1	600.8	603.7	606.5	615.0	636.0	719.3
40°	616.3	602.1	588.7	575.2	569.3	563.4	569.8	576.2	589.2	608.2	684.5
42.5°	577.5	562.2	549.4	536.7	531.8	527.0	535.5	544.0	560.4	577.9	646.2
45°	543.6	527.8	515.7	503.6	499.5	495.4	503.7	512.0	527.9	545.6	605.5
47.5°	516.5	500.8	489.0	477.2	473.4	469.5	476.5	483.5	497.1	520.0	573.3
50°	494.3	480.3	469.1	458.0	451.9	446.0	452.1	458.3	474.1	504.3	552.0
52.5°	478.8	465.8	455.6	445.3	436.4	427.4	433.5	439.6	461.7	496.4	537.9
55°	469.3	457.9	446.8	435.8	423.1	410.3	419.9	429.6	462.9	495.2	527.7
57.5°	460.1	448.8	435.9	422.9	409.2	395.5	409.5	423.6	464.2	492.6	515.6
60°	446.8	435.3	420.4	405.6	393.5	381.5	399.8	418.0	460.3	479.1	497.1
62.5°	428.1	415.8	398.5	381.1	373.5	365.8	388.6	411.5	450.7	453.0	464.9
65°	*403.9*	*392.2*	*373.6*	*355.0*	*352.1*	*349.1*	*373.4*	*397.7*	*427.5*	*427.3*	*432.9*
67.5°	376.3	365.1	347.9	330.8	331.7	332.6	352.9	373.1	389.8	390.6	387.5
70°	346.4	336.8	321.8	306.7	309.9	313.1	327.5	341.8	347.3	347.3	332.7
72.5°	310.4	301.7	289.9	278.0	282.6	287.3	297.2	307.0	307.0	303.5	282.7
75°	268.9	261.0	252.2	243.4	247.9	252.4	260.0	267.6	268.9	252.8	229.6
77.5°	227.8	221.1	213.9	206.7	211.3	215.8	221.9	228.0	228.7	202.2	179.6
80°	182.7	177.0	171.0	165.0	168.9	172.7	177.8	182.9	183.0	151.3	132.2
82.5°	121.2	123.1	123.6	124.1	126.8	129.5	132.0	134.5	133.0	106.0	91.9
85°	66.5	72.0	74.6	77.2	80.2	83.2	85.9	88.6	86.6	66.5	56.2
87.5°	31.4	35.6	35.7	35.9	36.4	37.0	38.1	39.1	36.6	28.3	24.0
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):

	330°	335°	340°	345°	350°	355°	360°
0°	926.9	926.9	926.9	926.9	926.9	926.9	926.9
2.5°	948.9	957.1	965.3	973.4	981.5	989.2	996.8
5°	970.5	987.4	1004.4	1021.2	1038.1	1055.0	1071.9
7.5°	989.9	1015.0	1040.1	1065.8	1091.6	1119.4	1147.3
10°	1005.6	1036.1	1066.6	1100.6	1134.6	1169.9	1205.1
12.5°	1014.1	1050.0	1085.9	1124.5	1163.1	1201.8	1240.5
15°	1014.9	1056.2	1097.6	1139.4	1181.3	1221.6	1262.0
17.5°	1004.9	1052.9	1101.0	1146.6	1192.2	1233.2	1274.1
20°	985.6	1043.8	1102.0	1152.2	1202.3	1244.9	1287.4
22.5°	961.9	1032.7	1103.4	1159.7	1215.9	1259.5	1302.9
25°	934.2	1021.6	1109.1	1173.4	1237.6	1280.2	1322.8
27.5°	907.7	1014.3	1120.8	1194.7	1268.6	1309.2	1349.9
30°	884.7	1010.8	1136.9	1222.4	1307.8	1347.1	1386.3
32.5°	862.3	1006.6	1150.7	1251.2	1351.6	1390.5	1429.4
35°	836.2	998.5	1160.9	1284.1	1407.2	1444.4	1481.7
37.5°	802.5	984.7	1167.0	1320.9	1474.8	1522.2	1569.7
40°	760.8	965.8	1170.8	1367.6	1564.4	1633.6	1702.7
42.5°	714.5	946.2	1178.0	1428.8	1679.5	1779.3	1879.1
45°	665.4	928.0	1190.7	1509.2	1827.7	1962.4	2097.0
47.5°	626.7	913.0	1199.4	1594.9	1990.5	2180.0	2369.5
50°	599.6	896.7	1193.7	1674.5	2155.2	2440.9	2726.6
52.5°	579.4	869.0	1158.7	1726.1	2293.5	2715.0	3136.5
55°	560.2	823.2	1086.3	1714.7	2343.2	2958.0	3573.0
57.5°	538.5	758.6	978.7	1634.6	2290.6	3130.3	3969.9
60°	515.1	674.8	834.4	1485.6	2136.7	3173.3	4209.8
62.5°	476.9	574.4	671.8	1284.0	1896.1	2992.1	4088.0
65°	*438.6*	*484.1*	*529.6*	*1078.3*	*1627.1*	*2735.7*	*3844.2*
67.5°	384.3	397.3	410.2	876.9	1343.5	2430.5	3517.5
70°	318.1	314.4	310.7	690.4	1070.1	2097.5	3125.0
72.5°	262.0	250.8	239.7	527.8	816.0	1736.6	2657.2
75°	206.3	196.2	186.1	383.1	580.1	1322.8	2065.5
77.5°	157.0	150.1	143.3	259.6	375.9	925.8	1475.8
80°	113.1	110.3	107.4	167.2	227.1	596.5	965.9
82.5°	77.8	77.3	76.8	102.9	129.0	345.2	561.5
85°	45.9	46.2	46.4	55.0	63.6	155.3	247.0
87.5°	19.8	20.1	20.3	22.8	25.3	50.9	76.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0


HS
SS

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.

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

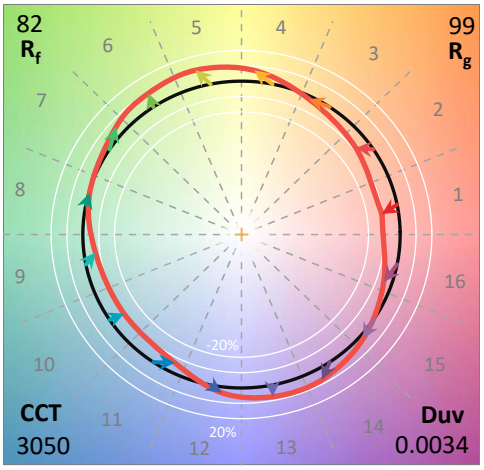
Test Information

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



Test Conditions

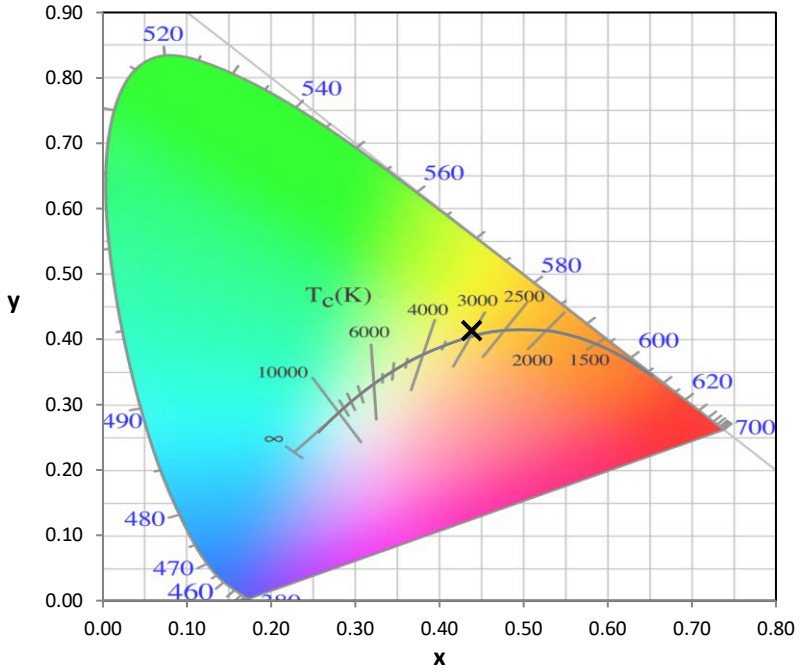
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

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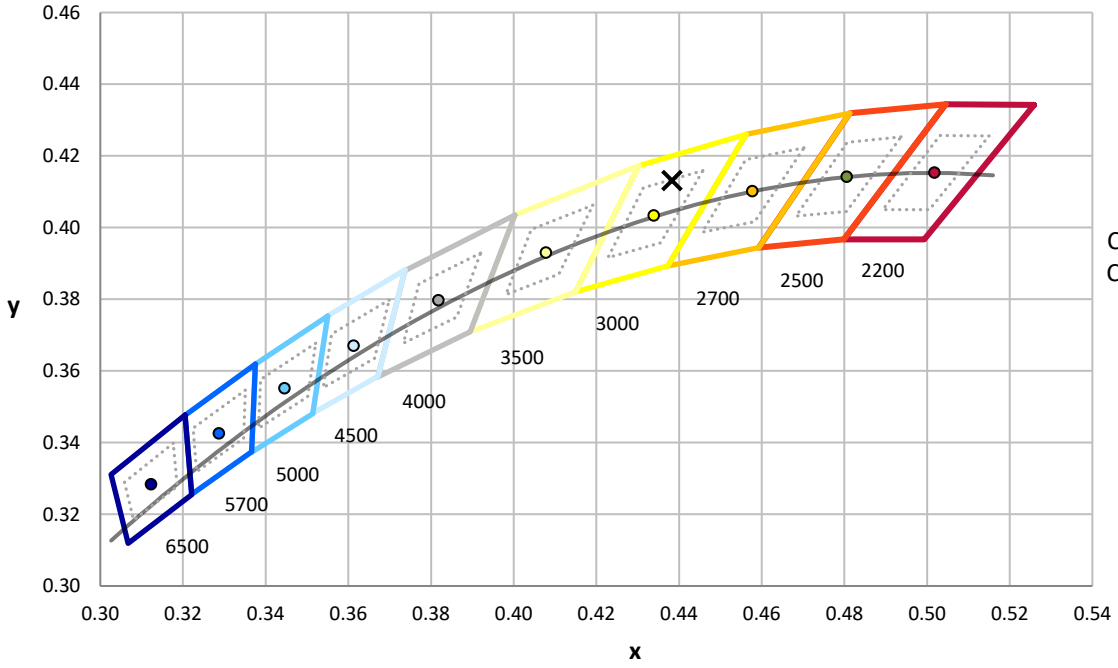
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

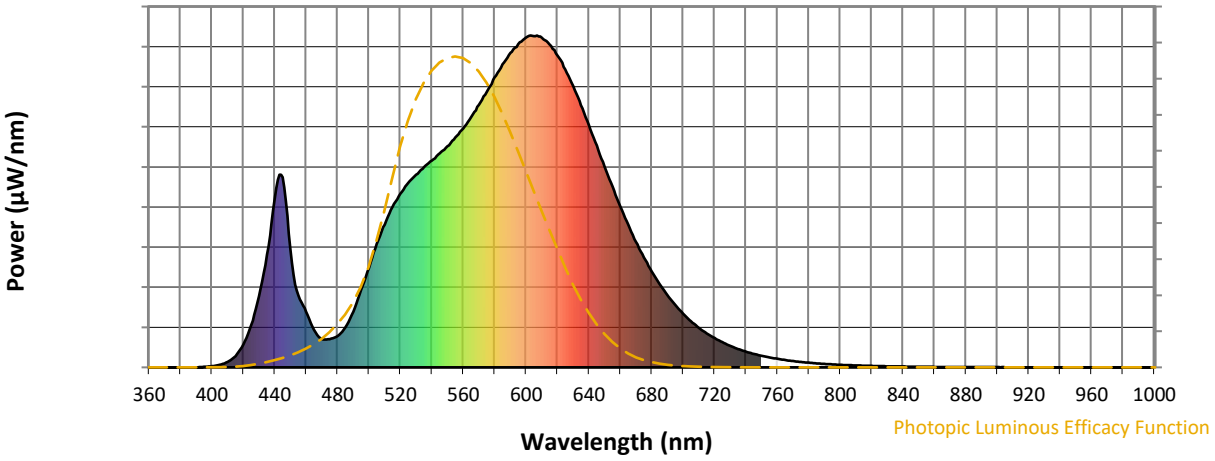


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

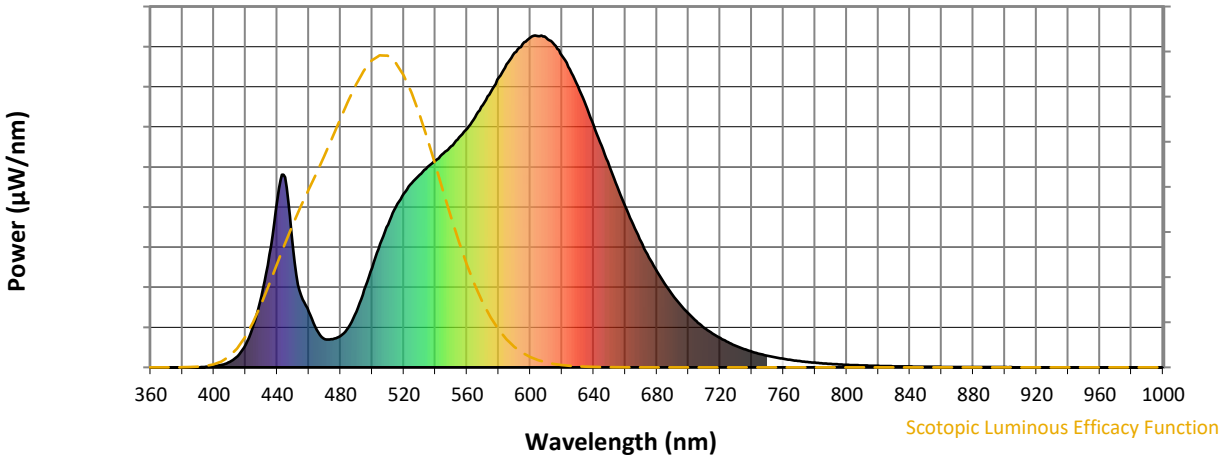


Photopic Lumens: NR

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			

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Scotopic Flux vs. Wavelength

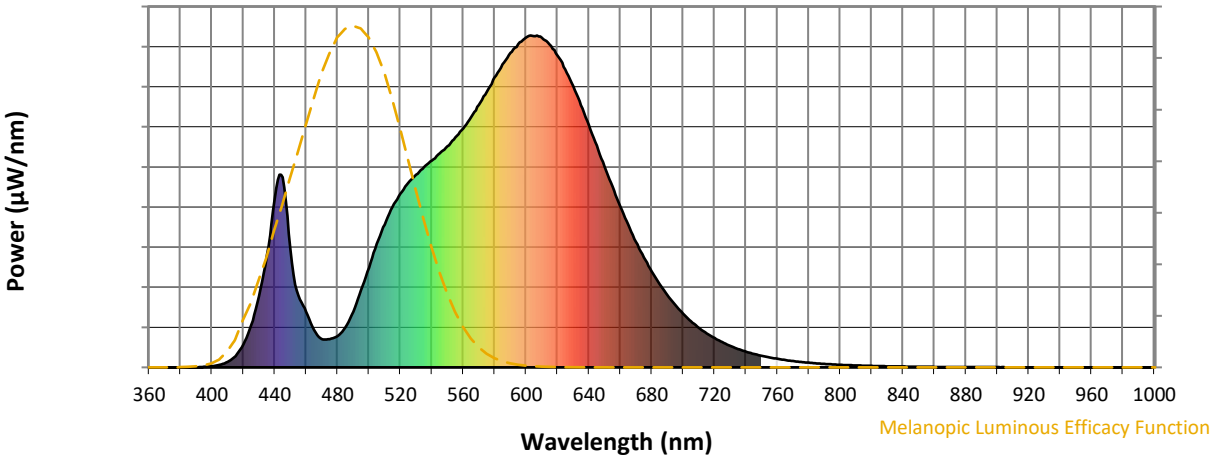


Scotopic Lumens: NR **S/P: 1.27**

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			

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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			

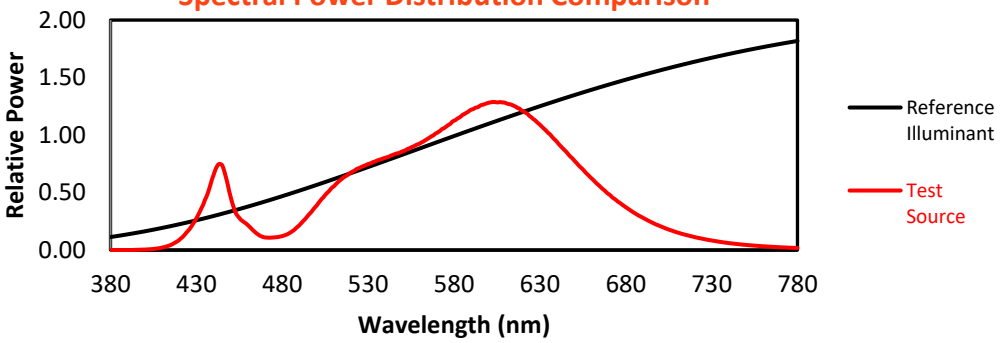
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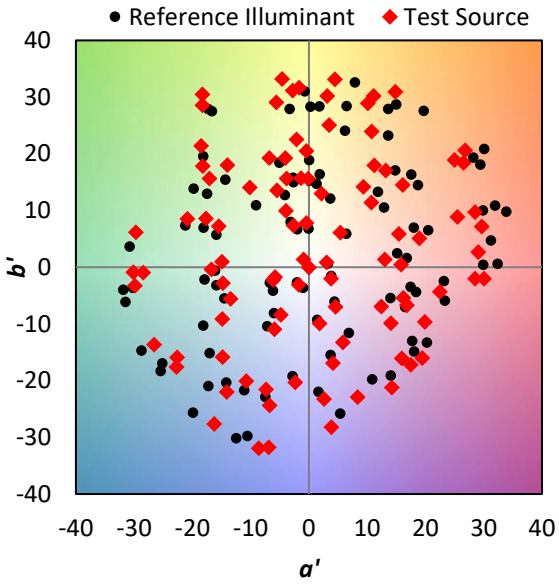
Summary

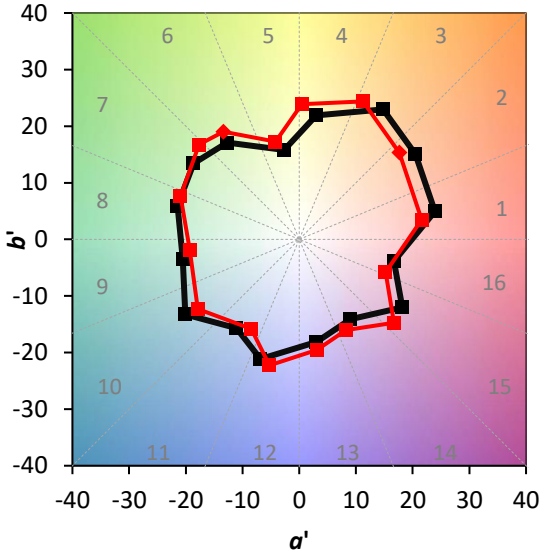
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

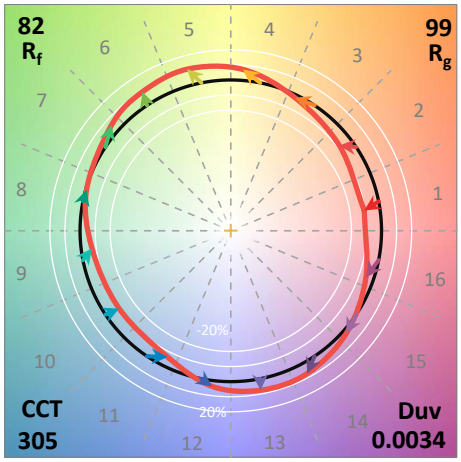
Spectral Power Distribution Comparison

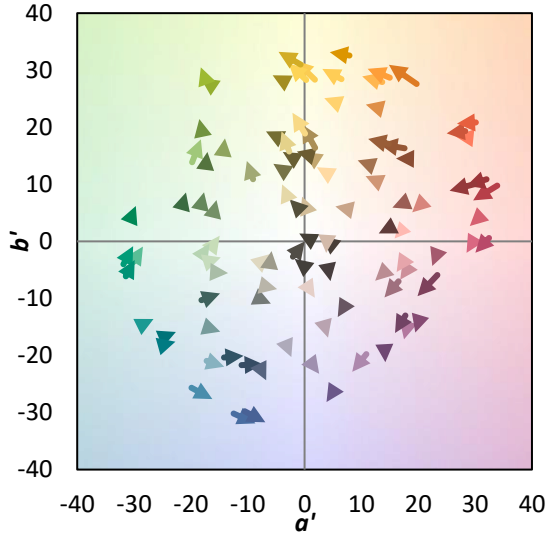


Color Vector Graphics







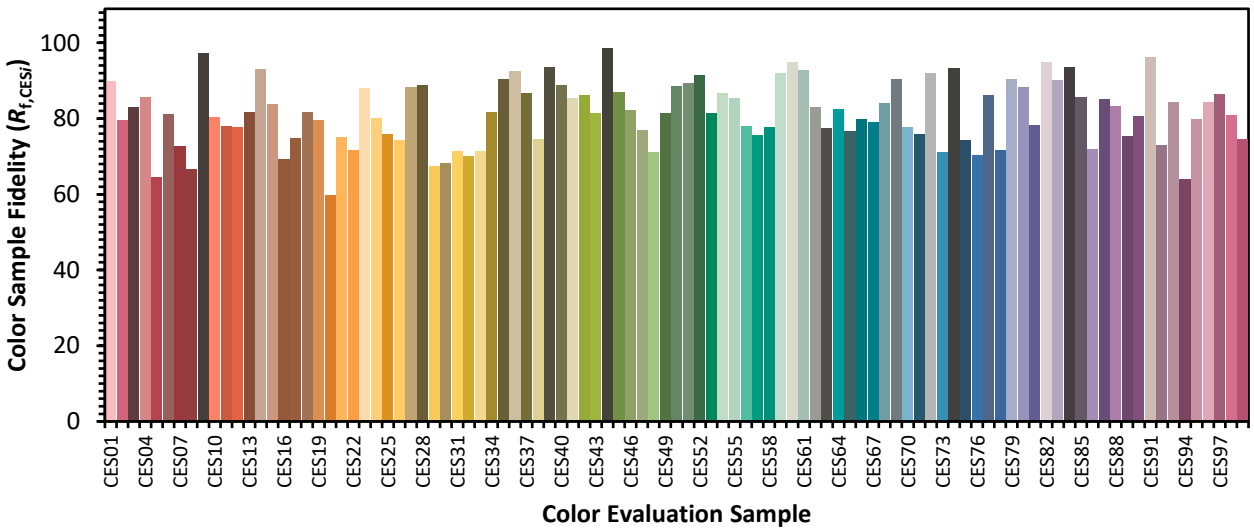


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Individual Sample Fidelity Index ($R_{f,i}$)

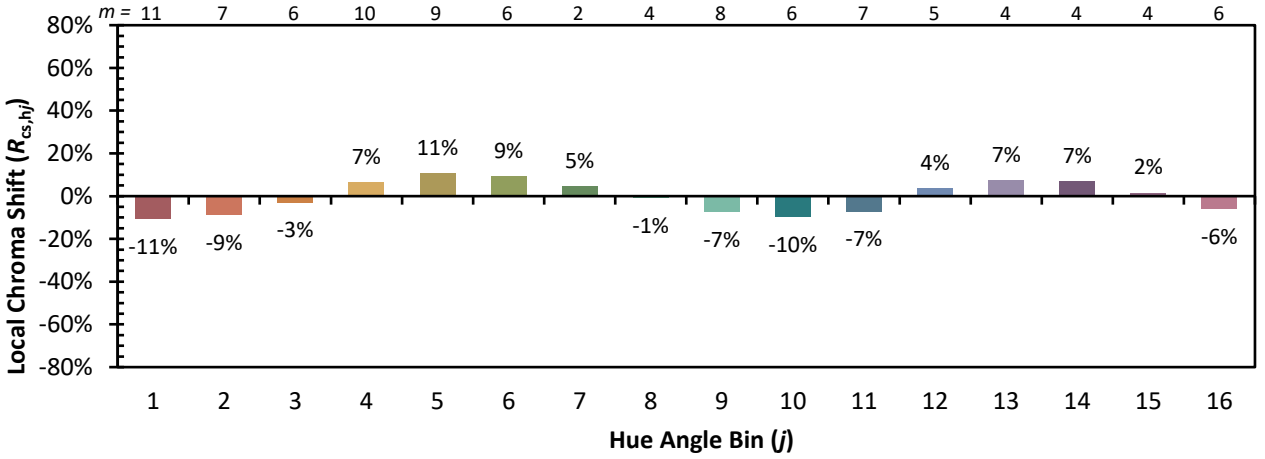
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

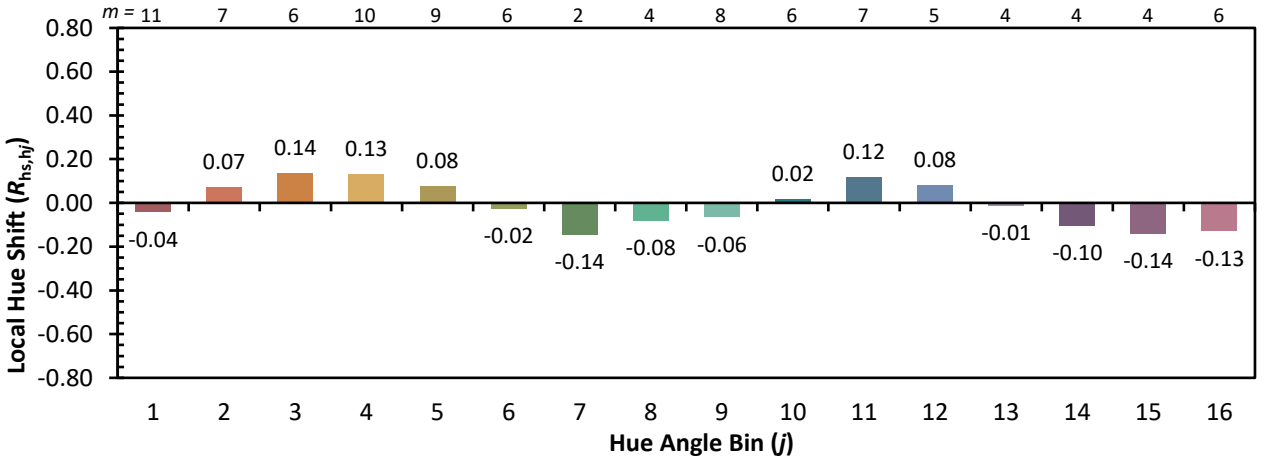


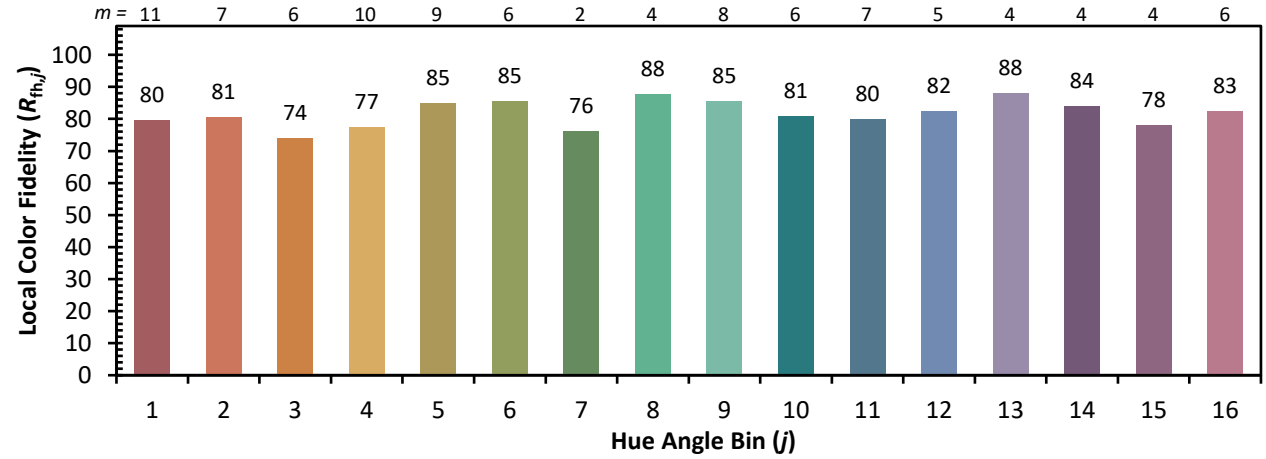
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Color Rendition by Hue-Angle Bin



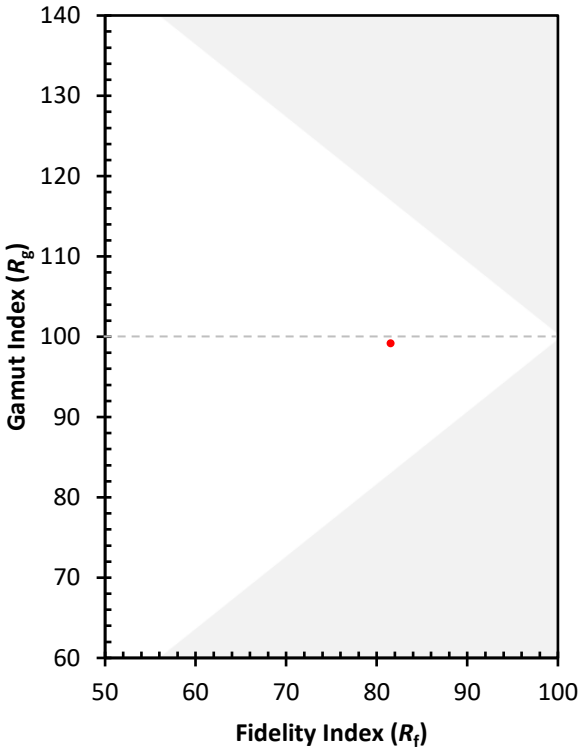


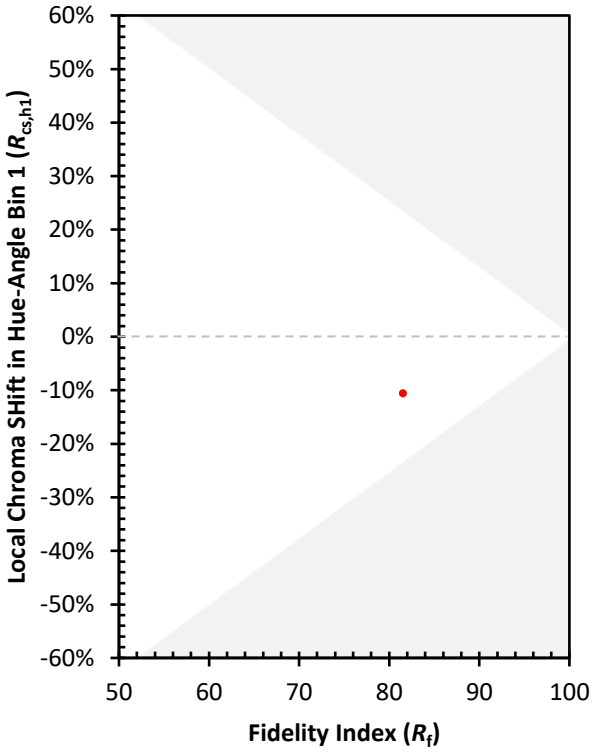


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Measure Comparisons





(END OF REPORT)