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: P1202367

Luminaire Tested: GWC-SB1D-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:	P1202367
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-8)
Test Lab:	INNOVATION CENTER
Issue Date:	3/14/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWC-SB1D-830-U-SLL
Description:	GALLEON WALL LUMINAIRE
	(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9160 lumens
Efficiency:	N/A
Efficacy:	115.1 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U0 - G3

Input Watts (W):	79.6
Input Voltage (V):	120.0
Input Current (Ain):	0.638
Voltage Rise (V):	NR
Power Factor:	0.997
Total Harmonic Distortion (THDi):	6.673
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

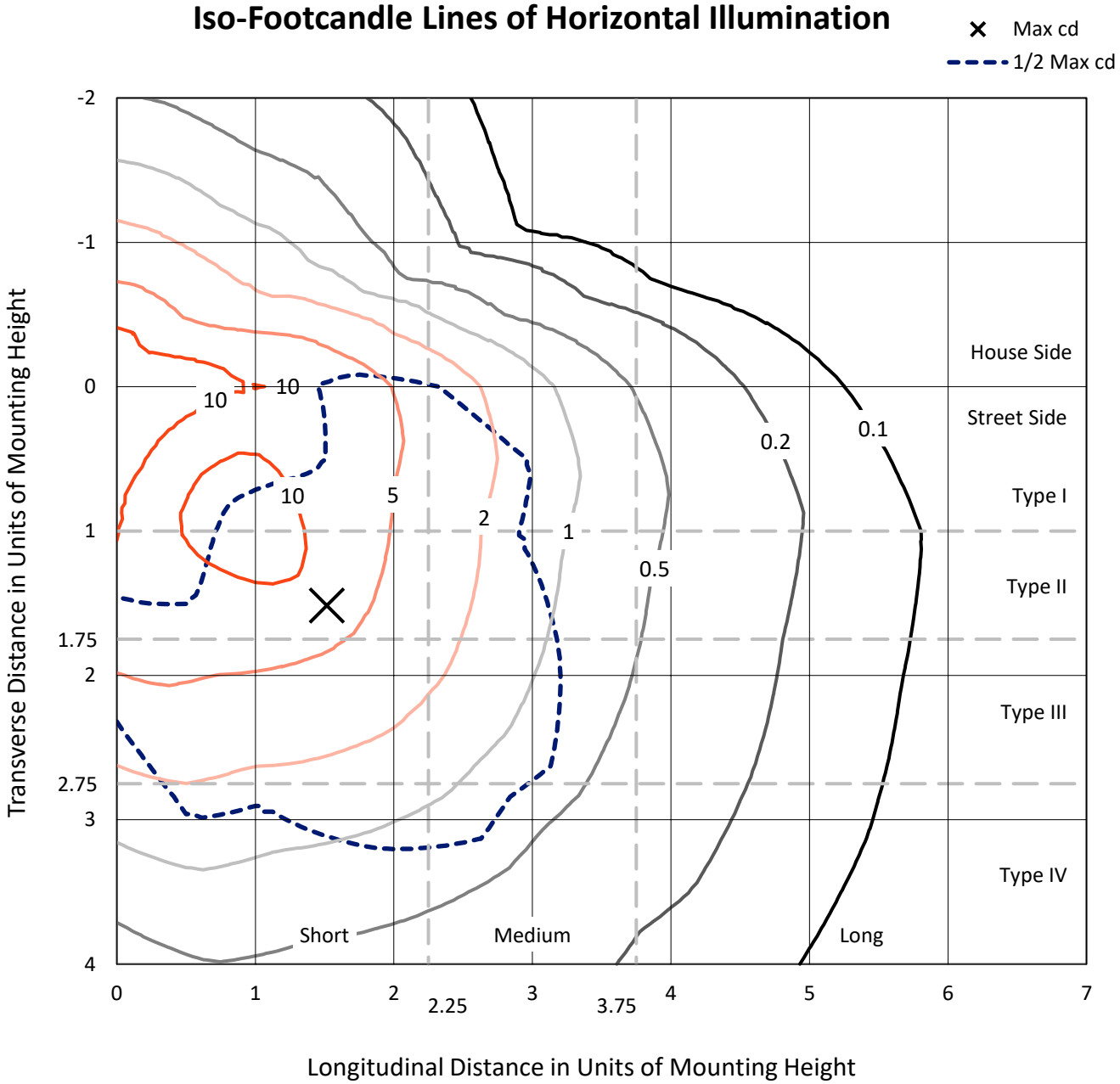


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Iso-Footcandle Lines of Horizontal Illumination



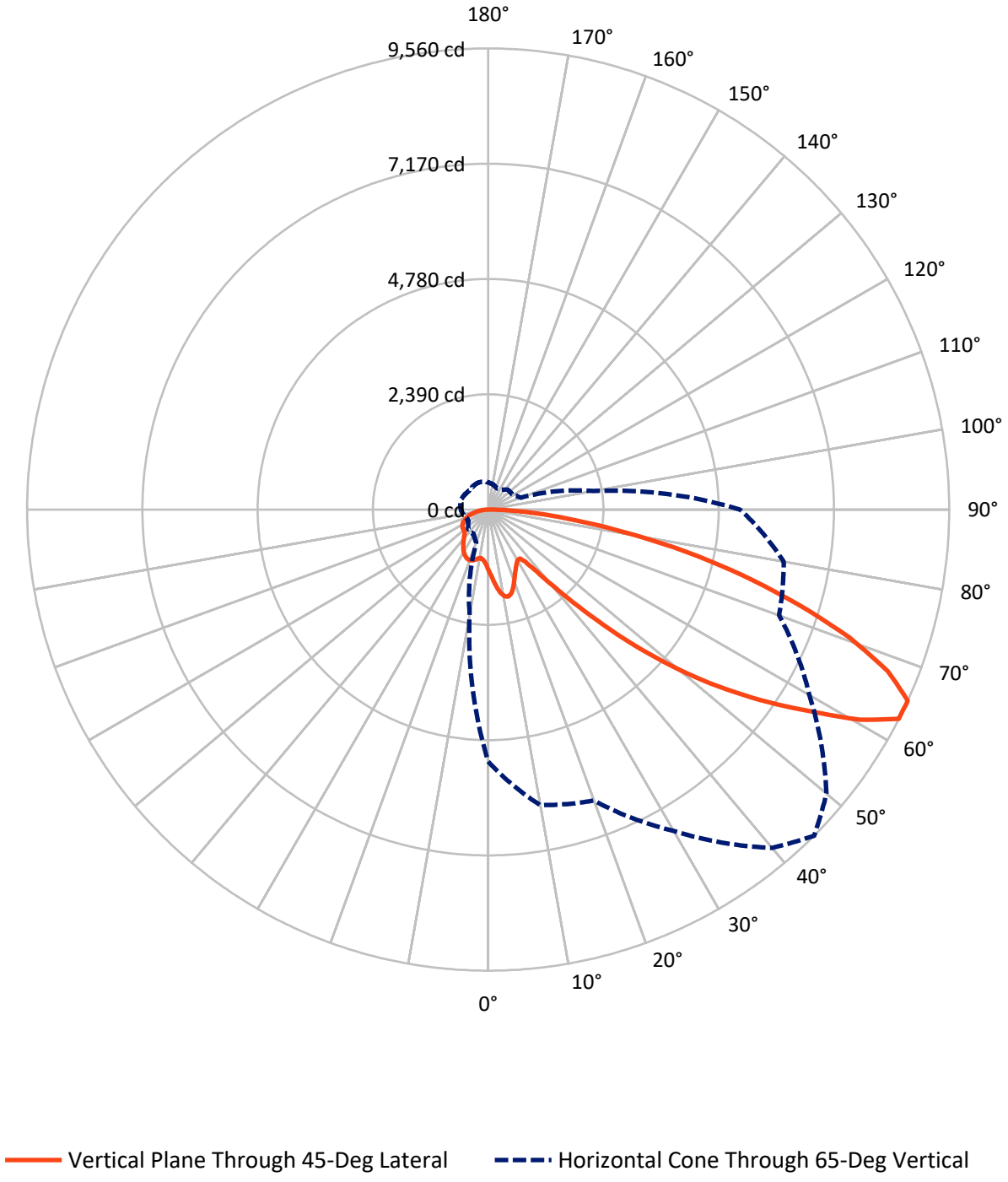
Based on 10 foot mounting height. Maximum calculated value = 16 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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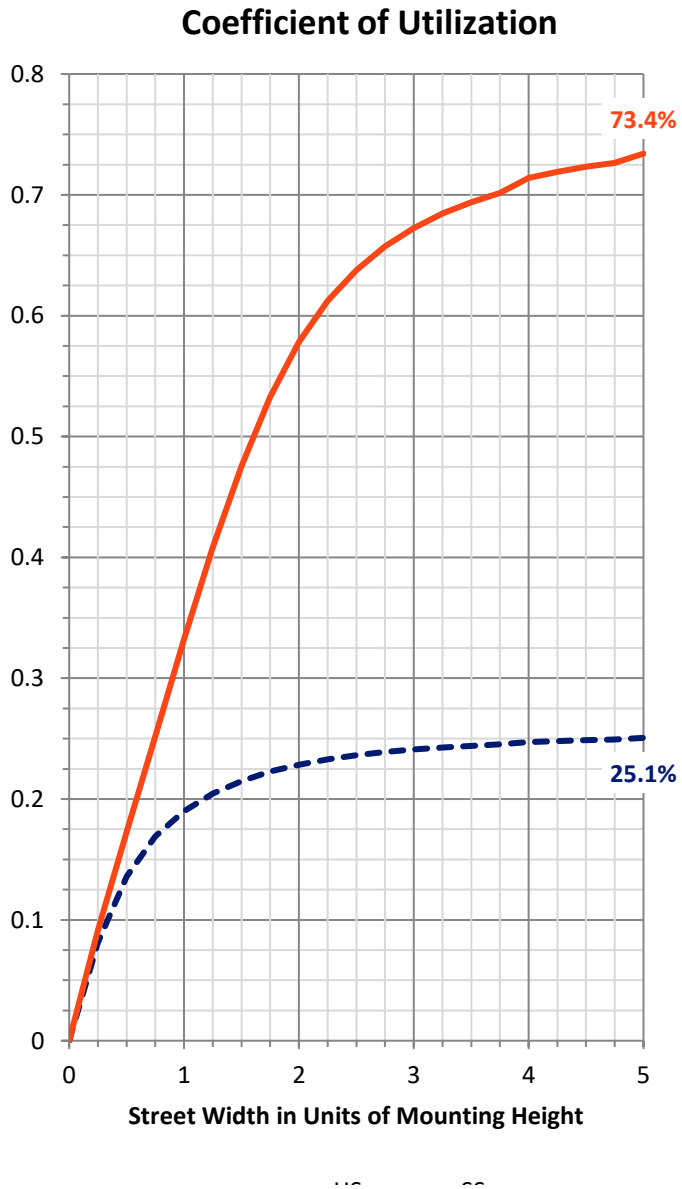
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2328.0	0.0	2328.0
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	6832.0	0.0	6832.0
	% Fixture	74.6	0.0	74.6
Total	Lumens	9160.0	0.0	9160.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.9	1.4
10°-20°	392.2	4.3
20°-30°	605.9	6.6
30°-40°	767.8	8.4
40°-50°	1158.0	12.6
50°-60°	1871.0	20.4
60°-70°	2332.5	25.5
70°-80°	1529.5	16.7
80°-90°	378.1	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°	9160.0	100.0
0°-180°	9160.0	100.0



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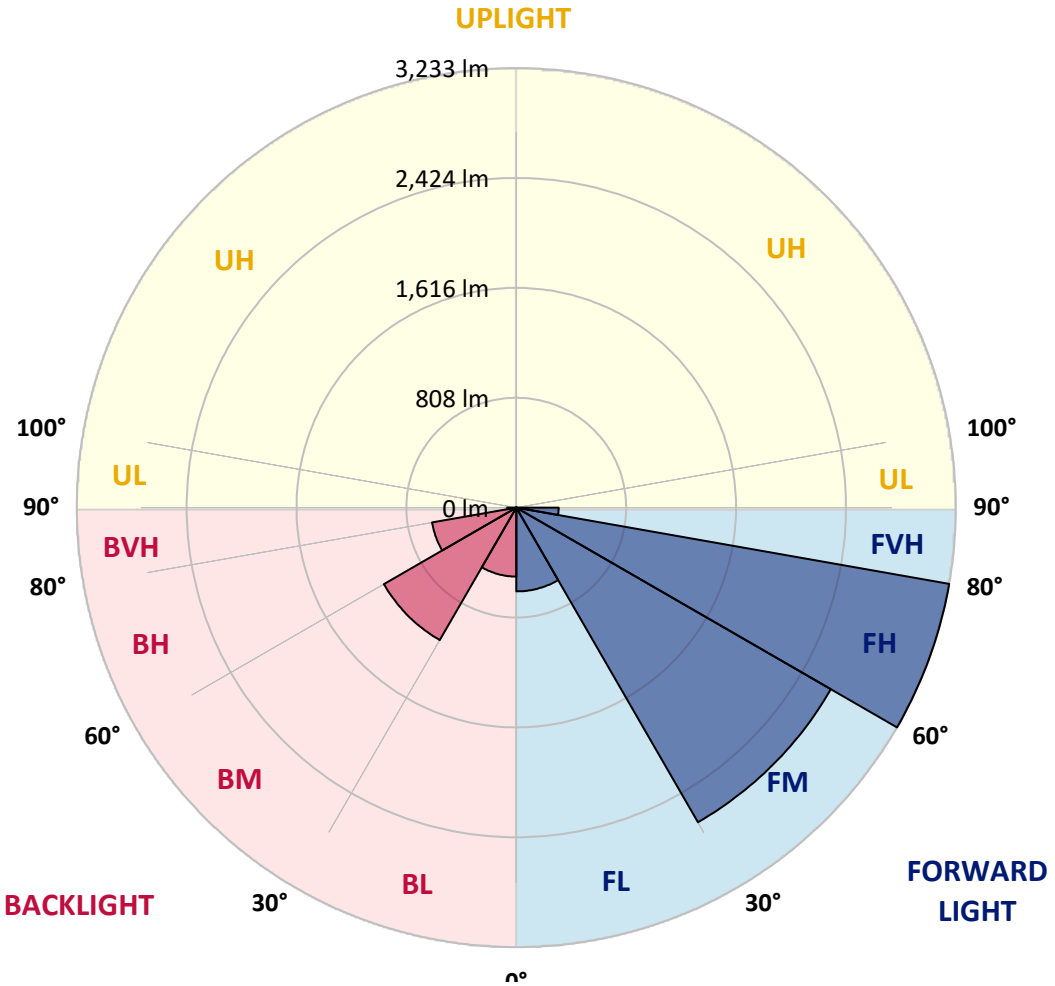
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	616.1	6.7			
FM	(30°-60°)	2671.8	29.2			
FH	(60°-80°)	3232.6	35.3			G2/5000
FVH	(80°-90°)	311.5	3.4			G3/500
BL	(0°-30°)	507.0	5.5	B2/1000		
BM	(30°-60°)	1125.0	12.3	B2/2500		
BH	(60°-80°)	629.4	6.9	B2/1000		G2/1000
BVH	(80°-90°)	66.6	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1259.6	1259.6	1259.6	1259.6	1259.6	1259.6	1259.6	1259.6	1259.6	*1259.6*	1259.6
2.5°	1354.6	1359.7	1364.8	1372.1	1379.4	1383.8	1388.1	1390.3	1392.5	*1391.5*	1392.5
5°	1456.5	1474.5	1492.5	1510.2	1528.1	1537.7	1547.4	1553.3	1559.2	*1563.6*	1559.2
7.5°	1559.0	1588.2	1617.3	1643.6	1669.8	1685.6	1701.4	1710.0	1718.5	*1722.6*	1718.5
10°	1637.5	1672.1	1706.6	1737.4	1768.1	1786.8	1805.4	1813.7	1821.9	*1825.1*	1821.9
12.5°	1685.6	1723.1	1760.4	1788.3	1816.0	1829.5	1843.1	1847.6	1852.2	*1852.6*	1852.2
15°	1714.9	1747.2	1779.4	1796.9	1814.4	1814.8	1815.3	1810.5	1805.7	*1800.0*	1805.7
17.5°	1731.3	1753.1	1774.9	1775.3	1775.5	1756.0	1736.4	1718.5	1700.5	*1687.8*	1700.5
20°	1749.4	1757.0	1764.7	1741.7	1718.8	1675.5	1632.3	1600.9	1569.4	*1550.1*	1569.4
22.5°	1770.5	1760.5	1750.6	1703.0	1655.4	1591.9	1528.3	1489.0	1449.6	*1428.3*	1449.6
25°	1797.5	1766.1	1734.7	1662.5	1590.3	1513.1	1435.9	1394.5	1353.2	*1333.0*	1353.2
27.5°	1834.3	1778.1	1721.9	1626.2	1530.6	1445.1	1359.5	1318.8	1278.2	*1259.1*	1278.2
30°	1883.8	1800.0	1716.3	1598.6	1480.9	1391.7	1302.6	1264.8	1227.1	*1209.3*	1227.1
32.5°	1942.3	1827.6	1712.9	1579.7	1446.5	1362.8	1279.0	1249.4	1219.7	*1206.9*	1219.7
35°	2013.3	1873.0	1732.7	1593.9	1455.1	1396.9	1338.7	1331.8	1324.9	*1323.9*	1324.9
37.5°	2133.0	1967.9	1802.8	1676.6	1550.5	1546.7	1542.9	1574.5	1606.1	*1622.6*	1606.1
40°	2313.7	2134.2	1954.6	1860.8	1767.0	1833.2	1899.4	1976.3	2053.1	*2091.4*	2053.1
42.5°	2553.5	2375.3	2197.2	2143.1	2089.1	2233.5	2377.9	2517.7	2657.5	*2739.6*	2657.5
45°	2849.5	2689.5	2529.4	2505.6	2481.7	2713.1	2944.5	3174.2	3403.9	*3543.4*	3403.9
47.5°	3219.8	3064.1	2908.3	2903.5	2898.7	3232.5	3566.2	3902.4	4238.6	*4436.1*	4238.6
50°	3705.0	3512.7	3320.4	3321.3	3322.1	3752.2	4182.4	4626.3	5070.1	*5338.5*	5070.1
52.5°	4262.1	4029.2	3796.4	3772.8	3749.3	4263.1	4776.9	5326.1	5875.2	*6196.9*	5875.2
55°	4855.1	4625.1	4395.0	4303.2	4211.4	4783.3	5355.1	6009.8	6664.5	*7047.1*	6664.5
57.5°	5394.5	5269.3	5143.9	4959.8	4775.8	5353.2	5930.7	6672.2	7413.7	*7888.1*	7413.7
60°	5720.5	5915.1	6109.8	5881.2	5652.5	6199.0	6745.5	7539.4	8333.3	*8846.1*	8333.3
62.5°	5555.0	6086.7	6618.4	6592.7	6566.9	7067.5	7568.1	8323.5	9078.8	*9552.7*	9078.8
65°	*5223.7*	*5722.7*	*6221.8*	*6320.5*	*6419.2*	*7055.4*	*7691.6*	*8424.1*	*9156.5*	*9559.9*	*9156.5*
67.5°	4779.7	5254.4	5729.0	5775.3	5821.6	6484.4	7147.2	7882.8	8618.4	*8934.5*	8618.4
70°	4246.4	4762.6	5278.9	5299.6	5320.3	5913.1	6505.8	7138.9	7771.8	*7947.5*	7771.8
72.5°	3610.8	4203.2	4795.7	4810.6	4825.4	5289.2	5752.9	6227.0	6701.1	*6718.9*	6701.1
75°	2806.7	3419.9	4033.1	4088.1	4143.2	4504.0	4864.8	5198.5	5532.3	*5442.9*	5532.3
77.5°	2005.4	2577.7	3150.2	3228.9	3307.7	3582.0	3856.3	4093.0	4329.7	*4176.0*	4329.7
80°	1312.5	1794.1	2275.6	2373.5	2471.4	2678.6	2885.6	3009.9	3134.2	*2887.0*	3134.2
82.5°	762.9	1092.2	1421.4	1530.8	1640.2	1782.8	1925.4	1977.2	2029.1	*1834.8*	2029.1
85°	335.7	510.4	685.1	778.2	871.2	988.4	1105.5	1134.9	1164.4	*1008.7*	1164.4
87.5°	103.9	162.6	221.4	273.3	325.2	383.8	442.4	444.9	447.3	*375.6*	447.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1259.6	1259.6	1259.6	1259.6	1259.6	1259.6	1259.6	1259.6	1259.6	1259.6	1259.6
2.5°	1390.3	1388.1	1383.8	1379.4	1372.1	1364.8	1359.7	1354.6	1344.2	1333.8	1322.7
5°	1553.3	1547.4	1537.7	1528.1	1510.2	1492.5	1474.5	1456.5	1433.6	1410.6	1387.7
7.5°	1710.0	1701.4	1685.6	1669.8	1643.6	1617.3	1588.2	1559.0	1521.1	1483.3	1448.3
10°	1813.7	1805.4	1786.8	1768.1	1737.4	1706.6	1672.1	1637.5	1589.7	1541.8	1495.5
12.5°	1847.6	1843.1	1829.5	1816.0	1788.3	1760.4	1723.1	1685.6	1633.0	1580.4	1528.0
15°	1810.5	1815.3	1814.8	1814.4	1796.9	1779.4	1747.2	1714.9	1660.0	1605.2	1548.3
17.5°	1718.5	1736.4	1756.0	1775.5	1775.3	1774.9	1753.1	1731.3	1675.7	1620.1	1558.0
20°	1600.9	1632.3	1675.5	1718.8	1741.7	1764.7	1757.0	1749.4	1691.6	1633.8	1565.6
22.5°	1489.0	1528.3	1591.9	1655.4	1703.0	1750.6	1760.5	1770.5	1711.4	1652.3	1575.9
25°	1394.5	1435.9	1513.1	1590.3	1662.5	1734.7	1766.1	1797.5	1739.6	1681.8	1594.4
27.5°	1318.8	1359.5	1445.1	1530.6	1626.2	1721.9	1778.1	1834.3	1779.1	1723.8	1623.4
30°	1264.8	1302.6	1391.7	1480.9	1598.6	1716.3	1800.0	1883.8	1830.4	1777.1	1661.0
32.5°	1249.4	1279.0	1362.8	1446.5	1579.7	1712.9	1827.6	1942.3	1889.5	1836.7	1700.2
35°	1331.8	1338.7	1396.9	1455.1	1593.9	1732.7	1873.0	2013.3	1962.8	1912.2	1744.9
37.5°	1574.5	1542.9	1546.7	1550.5	1676.6	1802.8	1967.9	2133.0	2068.5	2004.0	1794.9
40°	1976.3	1899.4	1833.2	1767.0	1860.8	1954.6	2134.2	2313.7	2219.8	2125.8	1858.4
42.5°	2517.7	2377.9	2233.5	2089.1	2143.1	2197.2	2375.3	2553.5	2417.9	2282.2	1941.5
45°	3174.2	2944.5	2713.1	2481.7	2505.6	2529.4	2689.5	2849.5	2666.6	2483.6	2050.8
47.5°	3902.4	3566.2	3232.5	2898.7	2903.5	2908.3	3064.1	3219.8	2962.3	2704.8	2167.3
50°	4626.3	4182.4	3752.2	3322.1	3321.3	3320.4	3512.7	3705.0	3316.9	2928.6	2275.4
52.5°	5326.1	4776.9	4263.1	3749.3	3772.8	3796.4	4029.2	4262.1	3689.3	3116.6	2345.5
55°	6009.8	5355.1	4783.3	4211.4	4303.2	4395.0	4625.1	4855.1	4019.5	3184.0	2330.1
57.5°	6672.2	5930.7	5353.2	4775.8	4959.8	5143.9	5269.3	5394.5	4253.6	3112.6	2221.2
60°	7539.4	6745.5	6199.0	5652.5	5881.2	6109.8	5915.1	5720.5	4312.1	2903.5	2018.7
62.5°	8323.5	7568.1	7067.5	6566.9	6592.7	6618.4	6086.7	5555.0	4065.8	2576.6	1744.8
65°	*8424.1*	*7691.6*	*7055.4*	*6419.2*	*6320.5*	*6221.8*	*5722.7*	*5223.7*	*3717.4*	*2211.0*	*1465.3*
67.5°	7882.8	7147.2	6484.4	5821.6	5775.3	5729.0	5254.4	4779.7	3302.7	1825.7	1191.5
70°	7138.9	6505.8	5913.1	5320.3	5299.6	5278.9	4762.6	4246.4	2850.2	1454.1	938.2
72.5°	6227.0	5752.9	5289.2	4825.4	4810.6	4795.7	4203.2	3610.8	2359.8	1108.8	717.2
75°	5198.5	4864.8	4504.0	4143.2	4088.1	4033.1	3419.9	2806.7	1797.5	788.2	520.6
77.5°	4093.0	3856.3	3582.0	3307.7	3228.9	3150.2	2577.7	2005.4	1258.1	510.8	352.7
80°	3009.9	2885.6	2678.6	2471.4	2373.5	2275.6	1794.1	1312.5	810.6	308.6	227.3
82.5°	1977.2	1925.4	1782.8	1640.2	1530.8	1421.4	1092.2	762.9	469.1	175.4	139.8
85°	1134.9	1105.5	988.4	871.2	778.2	685.1	510.4	335.7	211.0	86.4	74.7
87.5°	444.9	442.4	383.8	325.2	273.3	221.4	162.6	103.9	69.1	34.3	31.0
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1259.6	1259.6	1259.6	1259.6	1259.6	1259.6	1259.6	1259.6	1259.6	1259.6	1259.6
2.5°	1311.7	1300.6	1289.4	1278.8	1268.2	1257.9	1246.4	1237.2	1227.9	1219.6	1211.2
5°	1364.8	1341.8	1318.8	1297.3	1275.8	1255.5	1235.4	1217.9	1200.4	1185.7	1171.0
7.5°	1413.3	1379.2	1345.1	1315.1	1285.1	1257.4	1231.4	1208.2	1184.9	1165.6	1146.2
10°	1449.3	1407.9	1366.5	1331.0	1295.4	1261.3	1233.4	1208.8	1184.3	1164.9	1145.6
12.5°	1475.6	1426.8	1378.0	1337.8	1297.7	1261.8	1235.8	1215.7	1195.7	1182.8	1170.1
15°	1491.5	1435.3	1379.1	1332.6	1286.1	1246.3	1225.5	1215.9	1206.3	1208.1	1209.8
17.5°	1496.0	1430.8	1365.5	1309.6	1253.7	1206.9	1194.1	1197.6	1201.1	1222.2	1243.2
20°	1497.5	1418.4	1339.3	1270.0	1200.7	1146.2	1142.9	1159.3	1175.7	1212.3	1248.9
22.5°	1499.4	1403.2	1307.0	1223.6	1140.1	1078.1	1084.7	1109.0	1133.3	1175.1	1216.9
25°	1507.0	1388.2	1269.5	1171.7	1074.0	1010.4	1028.3	1056.3	1084.4	1121.9	1159.5
27.5°	1523.0	1378.2	1233.5	1124.3	1015.1	957.3	979.0	1006.1	1033.1	1064.0	1094.9
30°	1544.8	1373.5	1202.2	1084.7	967.2	918.6	935.6	957.1	978.7	1004.3	1029.9
32.5°	1563.7	1367.7	1171.7	1050.5	929.2	890.1	897.7	910.4	923.1	943.5	964.0
35°	1577.5	1356.8	1136.2	1016.9	897.6	864.9	861.8	865.3	868.8	884.4	900.0
37.5°	1585.7	1338.1	1090.5	977.4	864.2	835.7	824.2	820.3	816.5	827.7	838.8
40°	1590.9	1312.4	1033.9	930.2	826.5	800.6	783.0	774.3	765.5	773.6	781.7
42.5°	1600.7	1285.8	970.9	878.1	785.3	761.5	739.3	727.7	716.1	722.6	729.3
45°	1618.0	1261.1	904.2	822.8	741.4	717.3	695.8	684.5	673.2	678.7	684.3
47.5°	1629.8	1240.7	851.5	779.1	706.6	675.5	657.0	647.5	638.0	643.2	648.4
50°	1622.1	1218.4	814.8	750.0	685.3	644.3	622.8	614.4	606.0	614.1	622.3
52.5°	1574.5	1180.9	787.4	730.9	674.5	627.4	597.3	589.0	580.7	593.0	605.1
55°	1476.1	1118.6	761.2	717.0	672.9	629.1	583.8	570.6	557.5	574.9	592.2
57.5°	1329.9	1030.9	731.8	700.6	669.4	630.8	575.7	556.5	537.4	556.0	574.7
60°	1133.8	916.9	700.0	675.5	651.0	625.4	568.0	543.2	518.4	534.8	551.1
62.5°	912.9	780.5	648.1	631.8	615.5	612.4	559.1	528.1	497.1	507.5	517.9
65°	*719.6*	*657.8*	*596.0*	*588.3*	*580.6*	*581.0*	*540.4*	*507.4*	*474.4*	*478.4*	*482.4*
67.5°	557.4	539.8	522.2	526.5	530.8	529.7	506.9	479.5	452.0	450.8	449.5
70°	422.2	427.2	432.2	452.1	472.0	472.0	464.5	445.0	425.4	421.1	416.7
72.5°	325.7	340.8	356.0	384.2	412.4	417.1	417.2	403.8	390.4	384.1	377.7
75°	252.9	266.6	280.3	311.9	343.6	365.4	363.6	353.3	342.9	336.8	330.7
77.5°	194.7	204.0	213.4	244.1	274.8	310.8	309.8	301.6	293.3	287.1	280.9
80°	146.0	149.8	153.7	179.7	205.7	248.7	248.5	241.6	234.7	229.5	224.3
82.5°	104.3	105.0	105.8	124.9	144.0	180.8	182.8	179.4	176.0	172.4	168.7
85°	63.1	62.7	62.4	76.4	90.4	117.7	120.4	116.7	113.1	109.0	104.9
87.5°	27.6	27.3	27.0	32.7	38.4	49.8	53.2	51.7	50.3	49.5	48.7
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: P1202367
CATALOG NUMBER: GWC-SB1D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1259.6	1259.6	1259.6	1259.6	1259.6	1259.6	1259.6	1259.6	1259.6	1259.6	1259.6
2.5°	1203.9	1196.6	1189.3	1182.0	1176.3	1170.6	1166.1	1161.5	1157.9	1154.3	1151.0
5°	1158.1	1145.1	1133.4	1121.6	1112.5	1103.5	1097.1	1090.8	1086.3	1081.8	1078.4
7.5°	1129.9	1113.6	1099.2	1084.9	1074.1	1063.3	1055.8	1048.3	1043.1	1038.0	1034.9
10°	1128.1	1110.5	1094.3	1078.1	1065.2	1052.3	1043.9	1035.4	1030.5	1025.6	1023.0
12.5°	1156.2	1142.5	1125.7	1109.0	1092.6	1076.2	1065.3	1054.4	1048.9	1043.5	1041.3
15°	1206.2	1202.6	1188.1	1173.5	1150.2	1126.8	1110.2	1093.7	1086.1	1078.6	1075.7
17.5°	1254.5	1265.6	1253.9	1242.2	1211.2	1180.2	1155.9	1131.5	1120.3	1109.0	1105.3
20°	1272.4	1295.8	1290.4	1285.0	1249.5	1214.1	1184.3	1154.5	1140.1	1125.7	1121.1
22.5°	1247.4	1277.9	1281.2	1284.5	1250.6	1216.8	1186.1	1155.3	1140.1	1125.0	1119.9
25°	1189.5	1219.6	1230.8	1241.9	1214.2	1186.5	1159.1	1131.9	1118.7	1105.6	1100.9
27.5°	1118.9	1143.0	1155.5	1168.0	1148.2	1128.5	1107.3	1086.1	1077.3	1068.4	1066.2
30°	1049.9	1069.9	1080.0	1090.2	1075.1	1060.1	1044.9	1029.6	1025.1	1020.6	1020.6
32.5°	983.2	1002.3	1013.6	1024.9	1011.1	997.2	985.1	973.0	970.0	967.1	967.4
35°	918.9	937.9	951.5	965.0	955.1	945.3	934.1	922.9	918.4	914.0	913.0
37.5°	857.7	876.7	893.4	910.1	905.6	901.0	890.7	880.4	872.2	864.1	859.8
40°	799.9	818.2	837.4	856.7	857.8	858.9	850.1	841.4	829.5	817.7	809.7
42.5°	746.6	763.9	784.7	805.5	811.0	816.6	809.2	801.9	787.1	772.4	760.7
45°	700.7	717.2	738.7	760.3	768.3	776.2	769.6	762.9	746.1	729.3	715.6
47.5°	664.5	680.5	701.8	723.1	732.3	741.4	736.8	732.2	717.2	702.2	689.5
50°	637.5	652.6	671.6	690.7	702.5	714.3	714.0	713.8	701.8	689.8	678.1
52.5°	619.1	632.9	650.7	668.5	682.4	696.4	698.9	701.4	691.7	681.9	671.4
55°	607.2	622.2	637.7	653.2	668.0	682.9	686.3	689.8	681.3	672.8	663.6
57.5°	592.3	609.9	625.2	640.7	655.6	670.5	674.0	677.5	668.9	660.3	651.2
60°	571.3	591.5	607.1	622.8	637.8	652.7	656.6	660.5	652.1	643.7	634.3
62.5°	541.4	565.0	581.7	598.4	612.1	625.8	629.5	633.3	625.7	618.1	608.2
65°	*507.6*	*532.9*	*548.8*	*564.8*	*576.9*	*588.9*	*592.8*	*596.5*	*589.2*	*581.9*	*572.4*
67.5°	472.8	496.1	511.3	526.4	536.8	547.2	551.0	554.6	547.9	541.2	532.3
70°	437.2	457.7	470.8	483.8	493.2	502.7	506.2	509.8	504.4	498.9	490.4
72.5°	393.9	410.0	421.8	433.6	442.8	452.0	456.3	460.5	456.0	451.4	443.3
75°	342.7	354.7	365.4	376.0	384.4	392.9	397.3	401.8	399.5	397.3	390.5
77.5°	290.7	300.4	309.6	318.8	327.6	336.4	340.6	344.7	341.6	338.4	331.6
80°	232.4	240.5	248.2	255.9	262.6	269.3	274.8	280.3	279.0	277.7	268.4
82.5°	168.0	167.3	164.6	161.9	176.2	190.5	199.9	209.3	208.7	208.1	200.3
85°	101.4	97.9	90.4	82.9	96.3	109.7	121.3	132.9	132.0	131.0	124.9
87.5°	48.6	48.4	42.7	37.0	42.6	48.2	52.9	57.6	56.5	55.2	52.1
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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1259.6	1259.6	1259.6	1259.6	1259.6	1259.6	1259.6	1259.6	1259.6	1259.6	1259.6
2.5°	1147.7	1143.6	1147.7	1151.0	1154.3	1157.9	1161.5	1166.1	1170.6	1176.3	1182.0
5°	1074.9	1071.6	1074.9	1078.4	1081.8	1086.3	1090.8	1097.1	1103.5	1112.5	1121.6
7.5°	1031.8	1029.5	1031.8	1034.9	1038.0	1043.1	1048.3	1055.8	1063.3	1074.1	1084.9
10°	1020.4	1019.4	1020.4	1023.0	1025.6	1030.5	1035.4	1043.9	1052.3	1065.2	1078.1
12.5°	1039.1	1038.7	1039.1	1041.3	1043.5	1048.9	1054.4	1065.3	1076.2	1092.6	1109.0
15°	1072.8	1072.5	1072.8	1075.7	1078.6	1086.1	1093.7	1110.2	1126.8	1150.2	1173.5
17.5°	1101.6	1101.0	1101.6	1105.3	1109.0	1120.3	1131.5	1155.9	1180.2	1211.2	1242.2
20°	1116.5	1115.1	1116.5	1121.1	1125.7	1140.1	1154.5	1184.3	1214.1	1249.5	1285.0
22.5°	1114.8	1112.6	1114.8	1119.9	1125.0	1140.1	1155.3	1186.1	1216.8	1250.6	1284.5
25°	1096.1	1093.3	1096.1	1100.9	1105.6	1118.7	1131.9	1159.1	1186.5	1214.2	1241.9
27.5°	1064.1	1063.3	1064.1	1066.2	1068.4	1077.3	1086.1	1107.3	1128.5	1148.2	1168.0
30°	1020.6	1021.3	1020.6	1020.6	1020.6	1025.1	1029.6	1044.9	1060.1	1075.1	1090.2
32.5°	967.9	968.6	967.9	967.4	967.1	970.0	973.0	985.1	997.2	1011.1	1024.9
35°	912.1	911.6	912.1	913.0	914.0	918.4	922.9	934.1	945.3	955.1	965.0
37.5°	855.5	853.1	855.5	859.8	864.1	872.2	880.4	890.7	901.0	905.6	910.1
40°	801.8	797.0	801.8	809.7	817.7	829.5	841.4	850.1	858.9	857.8	856.7
42.5°	749.1	741.4	749.1	760.7	772.4	787.1	801.9	809.2	816.6	811.0	805.5
45°	701.9	693.1	701.9	715.6	729.3	746.1	762.9	769.6	776.2	768.3	760.3
47.5°	676.9	668.5	676.9	689.5	702.2	717.2	732.2	736.8	741.4	732.3	723.1
50°	666.4	658.3	666.4	678.1	689.8	701.8	713.8	714.0	714.3	702.5	690.7
52.5°	661.0	653.5	661.0	671.4	681.9	691.7	701.4	698.9	696.4	682.4	668.5
55°	654.4	647.7	654.4	663.6	672.8	681.3	689.8	686.3	682.9	668.0	653.2
57.5°	642.1	635.1	642.1	651.2	660.3	668.9	677.5	674.0	670.5	655.6	640.7
60°	625.0	617.7	625.0	634.3	643.7	652.1	660.5	656.6	652.7	637.8	622.8
62.5°	598.4	589.7	598.4	608.2	618.1	625.7	633.3	629.5	625.8	612.1	598.4
65°	*562.8*	*555.4*	*562.8*	*572.4*	*581.9*	*589.2*	*596.5*	*592.8*	*588.9*	*576.9*	*564.8*
67.5°	523.5	516.7	523.5	532.3	541.2	547.9	554.6	551.0	547.2	536.8	526.4
70°	481.9	474.2	481.9	490.4	498.9	504.4	509.8	506.2	502.7	493.2	483.8
72.5°	435.2	427.8	435.2	443.3	451.4	456.0	460.5	456.3	452.0	442.8	433.6
75°	383.7	376.5	383.7	390.5	397.3	399.5	401.8	397.3	392.9	384.4	376.0
77.5°	324.7	319.0	324.7	331.6	338.4	341.6	344.7	340.6	336.4	327.6	318.8
80°	259.2	248.4	259.2	268.4	277.7	279.0	280.3	274.8	269.3	262.6	255.9
82.5°	192.5	185.6	192.5	200.3	208.1	208.7	209.3	199.9	190.5	176.2	161.9
85°	118.8	112.6	118.8	124.9	131.0	132.0	132.9	121.3	109.7	96.3	82.9
87.5°	48.9	45.9	48.9	52.1	55.2	56.5	57.6	52.9	48.2	42.6	37.0
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):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1259.6	1259.6	1259.6	1259.6	1259.6	1259.6	1259.6	1259.6	1259.6	1259.6	1259.6
2.5°	1189.3	1196.6	1203.9	1211.2	1219.6	1227.9	1237.2	1246.4	1257.9	1268.2	1278.8
5°	1133.4	1145.1	1158.1	1171.0	1185.7	1200.4	1217.9	1235.4	1255.5	1275.8	1297.3
7.5°	1099.2	1113.6	1129.9	1146.2	1165.6	1184.9	1208.2	1231.4	1257.4	1285.1	1315.1
10°	1094.3	1110.5	1128.1	1145.6	1164.9	1184.3	1208.8	1233.4	1261.3	1295.4	1331.0
12.5°	1125.7	1142.5	1156.2	1170.1	1182.8	1195.7	1215.7	1235.8	1261.8	1297.7	1337.8
15°	1188.1	1202.6	1206.2	1209.8	1208.1	1206.3	1215.9	1225.5	1246.3	1286.1	1332.6
17.5°	1253.9	1265.6	1254.5	1243.2	1222.2	1201.1	1197.6	1194.1	1206.9	1253.7	1309.6
20°	1290.4	1295.8	1272.4	1248.9	1212.3	1175.7	1159.3	1142.9	1146.2	1200.7	1270.0
22.5°	1281.2	1277.9	1247.4	1216.9	1175.1	1133.3	1109.0	1084.7	1078.1	1140.1	1223.6
25°	1230.8	1219.6	1189.5	1159.5	1121.9	1084.4	1056.3	1028.3	1010.4	1074.0	1171.7
27.5°	1155.5	1143.0	1118.9	1094.9	1064.0	1033.1	1006.1	979.0	957.3	1015.1	1124.3
30°	1080.0	1069.9	1049.9	1029.9	1004.3	978.7	957.1	935.6	918.6	967.2	1084.7
32.5°	1013.6	1002.3	983.2	964.0	943.5	923.1	910.4	897.7	890.1	929.2	1050.5
35°	951.5	937.9	918.9	900.0	884.4	868.8	865.3	861.8	864.9	897.6	1016.9
37.5°	893.4	876.7	857.7	838.8	827.7	816.5	820.3	824.2	835.7	864.2	977.4
40°	837.4	818.2	799.9	781.7	773.6	765.5	774.3	783.0	800.6	826.5	930.2
42.5°	784.7	763.9	746.6	729.3	722.6	716.1	727.7	739.3	761.5	785.3	878.1
45°	738.7	717.2	700.7	684.3	678.7	673.2	684.5	695.8	717.3	741.4	822.8
47.5°	701.8	680.5	664.5	648.4	643.2	638.0	647.5	657.0	675.5	706.6	779.1
50°	671.6	652.6	637.5	622.3	614.1	606.0	614.4	622.8	644.3	685.3	750.0
52.5°	650.7	632.9	619.1	605.1	593.0	580.7	589.0	597.3	627.4	674.5	730.9
55°	637.7	622.2	607.2	592.2	574.9	557.5	570.6	583.8	629.1	672.9	717.0
57.5°	625.2	609.9	592.3	574.7	556.0	537.4	556.5	575.7	630.8	669.4	700.6
60°	607.1	591.5	571.3	551.1	534.8	518.4	543.2	568.0	625.4	651.0	675.5
62.5°	581.7	565.0	541.4	517.9	507.5	497.1	528.1	559.1	612.4	615.5	631.8
65°	*548.8*	*532.9*	*507.6*	*482.4*	*478.4*	*474.4*	*507.4*	*540.4*	*581.0*	*580.6*	*588.3*
67.5°	511.3	496.1	472.8	449.5	450.8	452.0	479.5	506.9	529.7	530.8	526.5
70°	470.8	457.7	437.2	416.7	421.1	425.4	445.0	464.5	472.0	472.0	452.1
72.5°	421.8	410.0	393.9	377.7	384.1	390.4	403.8	417.2	417.1	412.4	384.2
75°	365.4	354.7	342.7	330.7	336.8	342.9	353.3	363.6	365.4	343.6	311.9
77.5°	309.6	300.4	290.7	280.9	287.1	293.3	301.6	309.8	310.8	274.8	244.1
80°	248.2	240.5	232.4	224.3	229.5	234.7	241.6	248.5	248.7	205.7	179.7
82.5°	164.6	167.3	168.0	168.7	172.4	176.0	179.4	182.8	180.8	144.0	124.9
85°	90.4	97.9	101.4	104.9	109.0	113.1	116.7	120.4	117.7	90.4	76.4
87.5°	42.7	48.4	48.6	48.7	49.5	50.3	51.7	53.2	49.8	38.4	32.7
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°	1259.6	1259.6	1259.6	1259.6	1259.6	1259.6	1259.6
2.5°	1289.4	1300.6	1311.7	1322.7	1333.8	1344.2	1354.6
5°	1318.8	1341.8	1364.8	1387.7	1410.6	1433.6	1456.5
7.5°	1345.1	1379.2	1413.3	1448.3	1483.3	1521.1	1559.0
10°	1366.5	1407.9	1449.3	1495.5	1541.8	1589.7	1637.5
12.5°	1378.0	1426.8	1475.6	1528.0	1580.4	1633.0	1685.6
15°	1379.1	1435.3	1491.5	1548.3	1605.2	1660.0	1714.9
17.5°	1365.5	1430.8	1496.0	1558.0	1620.1	1675.7	1731.3
20°	1339.3	1418.4	1497.5	1565.6	1633.8	1691.6	1749.4
22.5°	1307.0	1403.2	1499.4	1575.9	1652.3	1711.4	1770.5
25°	1269.5	1388.2	1507.0	1594.4	1681.8	1739.6	1797.5
27.5°	1233.5	1378.2	1523.0	1623.4	1723.8	1779.1	1834.3
30°	1202.2	1373.5	1544.8	1661.0	1777.1	1830.4	1883.8
32.5°	1171.7	1367.7	1563.7	1700.2	1836.7	1889.5	1942.3
35°	1136.2	1356.8	1577.5	1744.9	1912.2	1962.8	2013.3
37.5°	1090.5	1338.1	1585.7	1794.9	2004.0	2068.5	2133.0
40°	1033.9	1312.4	1590.9	1858.4	2125.8	2219.8	2313.7
42.5°	970.9	1285.8	1600.7	1941.5	2282.2	2417.9	2553.5
45°	904.2	1261.1	1618.0	2050.8	2483.6	2666.6	2849.5
47.5°	851.5	1240.7	1629.8	2167.3	2704.8	2962.3	3219.8
50°	814.8	1218.4	1622.1	2275.4	2928.6	3316.9	3705.0
52.5°	787.4	1180.9	1574.5	2345.5	3116.6	3689.3	4262.1
55°	761.2	1118.6	1476.1	2330.1	3184.0	4019.5	4855.1
57.5°	731.8	1030.9	1329.9	2221.2	3112.6	4253.6	5394.5
60°	700.0	916.9	1133.8	2018.7	2903.5	4312.1	5720.5
62.5°	648.1	780.5	912.9	1744.8	2576.6	4065.8	5555.0
65°	*596.0*	*657.8*	*719.6*	*1465.3*	*2211.0*	*3717.4*	*5223.7*
67.5°	522.2	539.8	557.4	1191.5	1825.7	3302.7	4779.7
70°	432.2	427.2	422.2	938.2	1454.1	2850.2	4246.4
72.5°	356.0	340.8	325.7	717.2	1108.8	2359.8	3610.8
75°	280.3	266.6	252.9	520.6	788.2	1797.5	2806.7
77.5°	213.4	204.0	194.7	352.7	510.8	1258.1	2005.4
80°	153.7	149.8	146.0	227.3	308.6	810.6	1312.5
82.5°	105.8	105.0	104.3	139.8	175.4	469.1	762.9
85°	62.4	62.7	63.1	74.7	86.4	211.0	335.7
87.5°	27.0	27.3	27.6	31.0	34.3	69.1	103.9
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

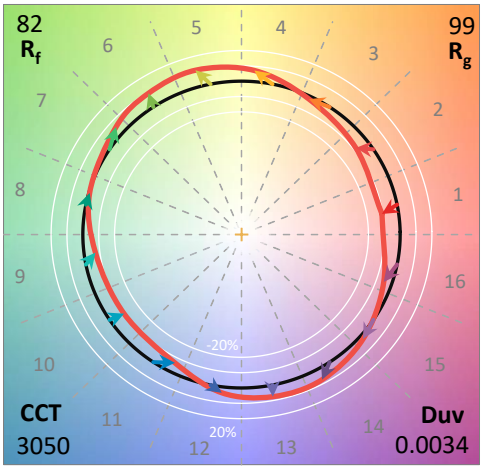
Test Information

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

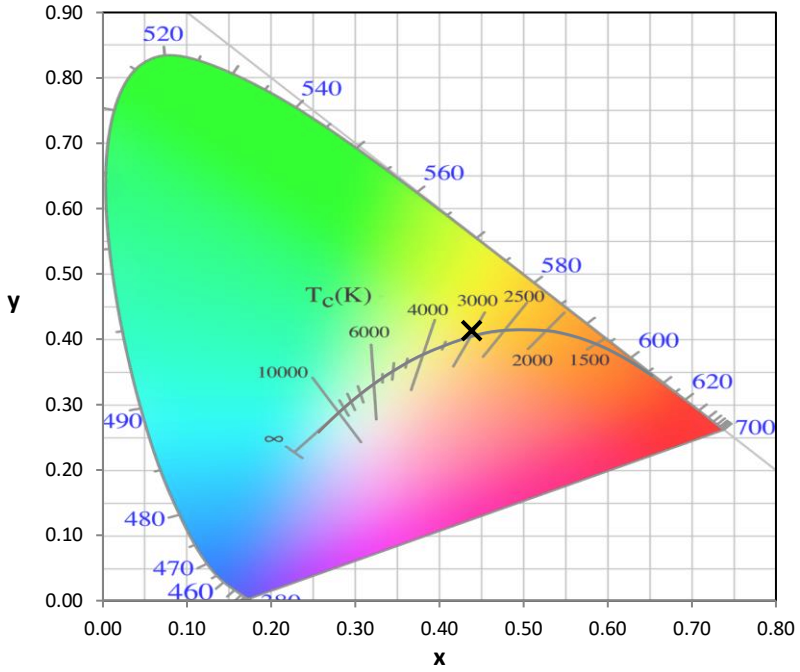
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

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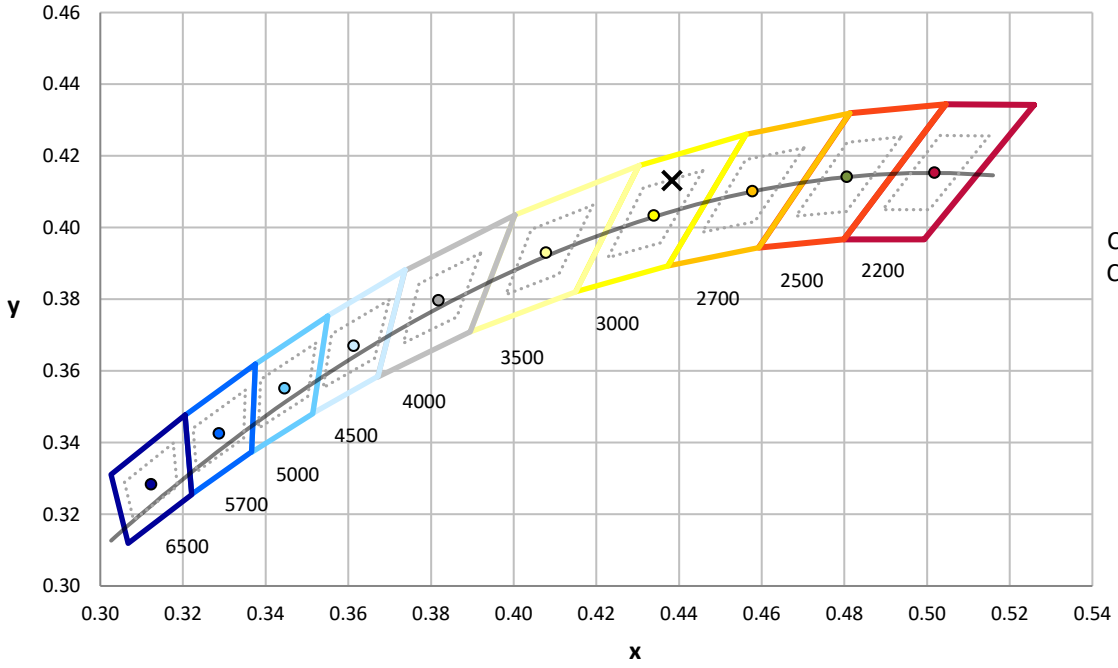
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

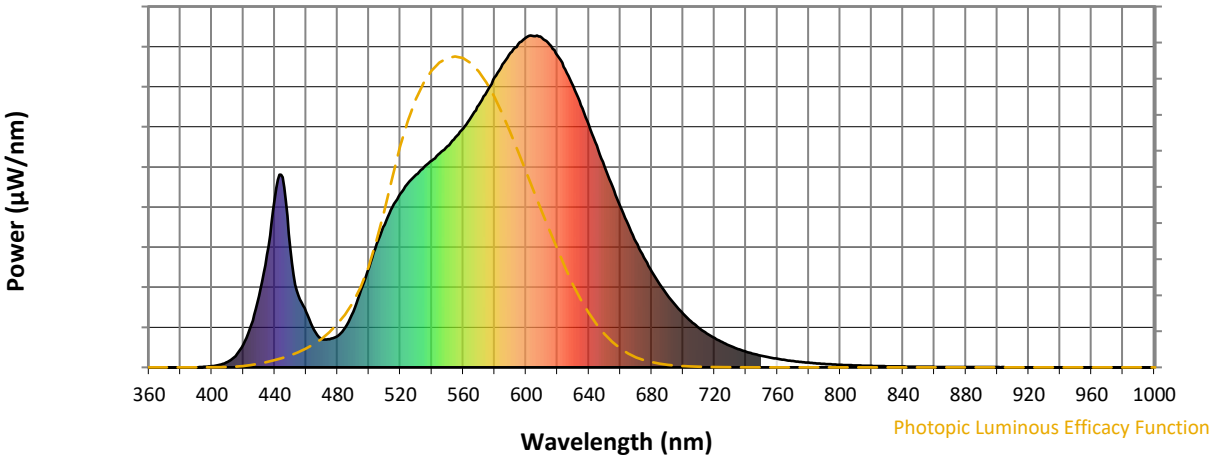


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

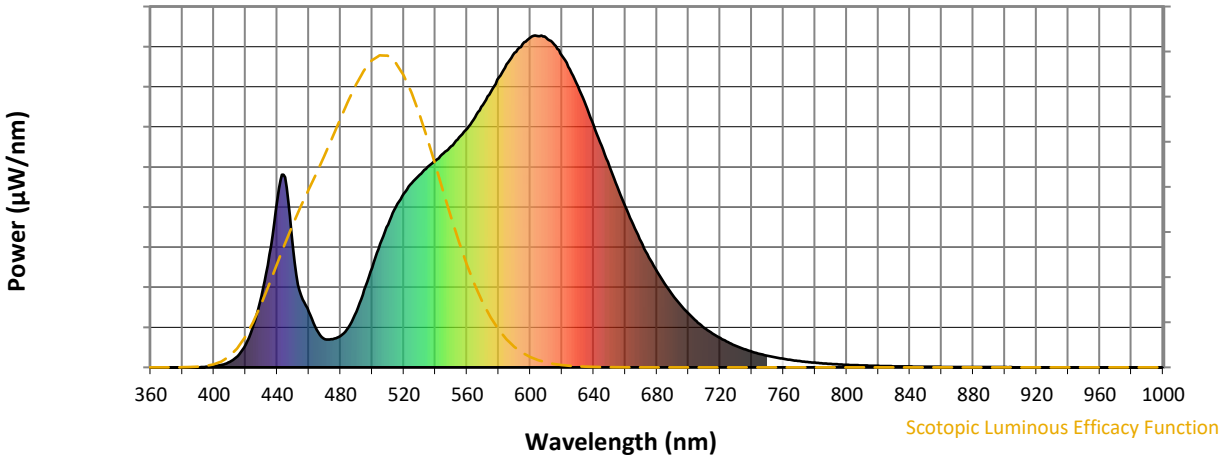


Photopic Lumens: NR

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

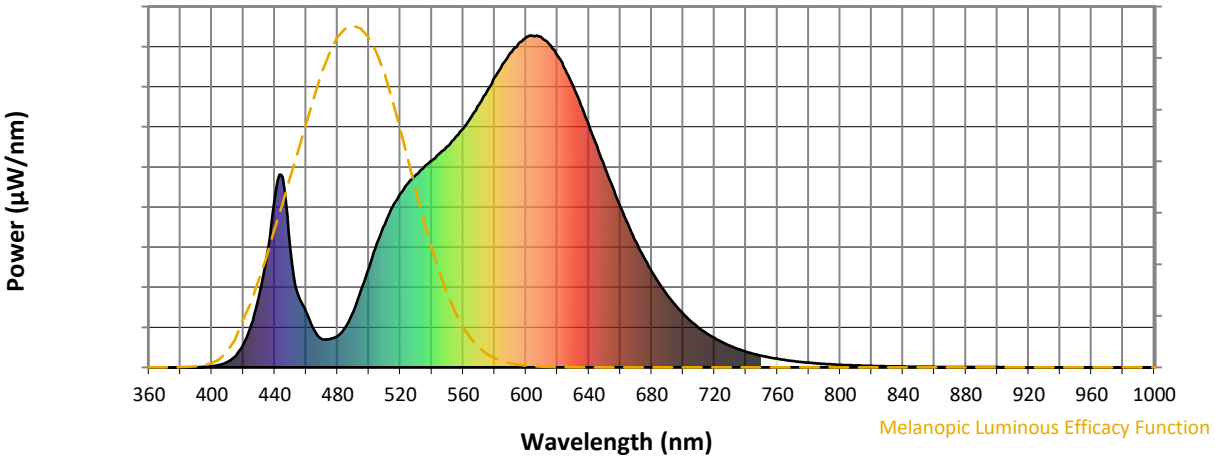


Scotopic Lumens: NR **S/P: 1.27**

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			

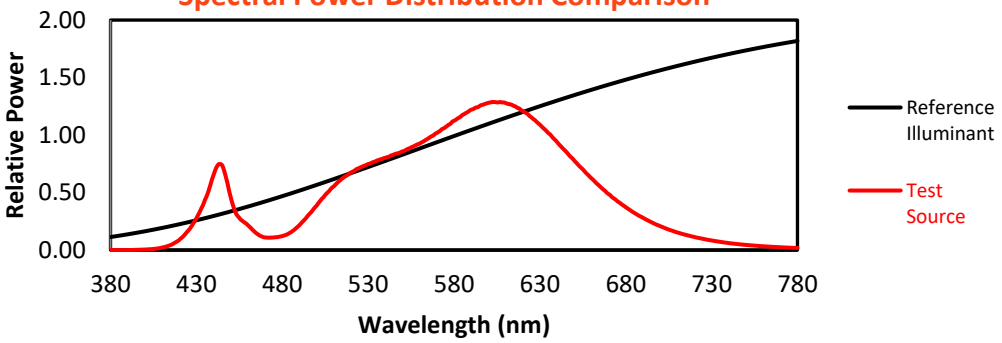
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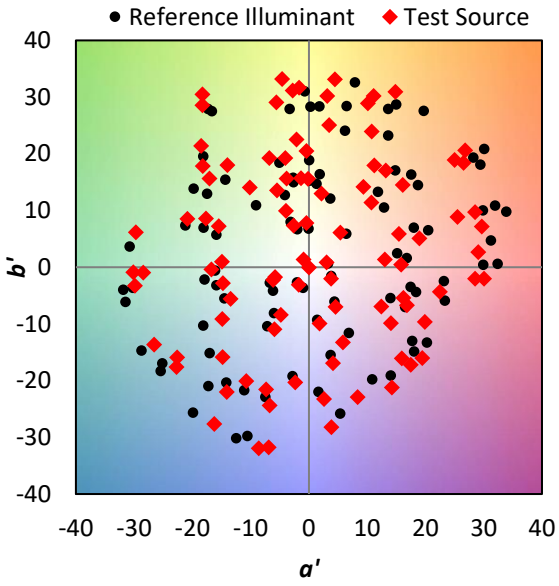
Summary

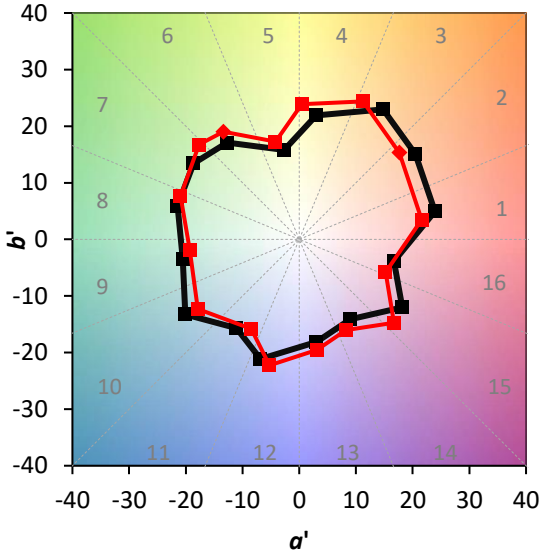
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

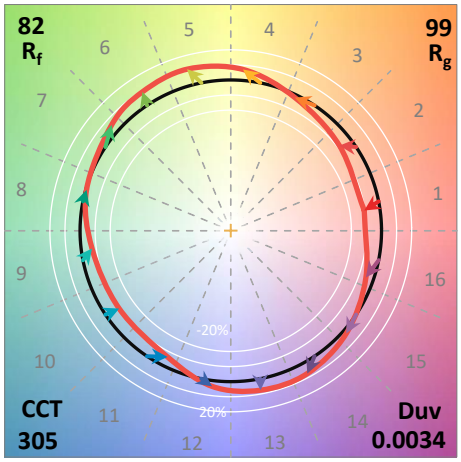
Spectral Power Distribution Comparison

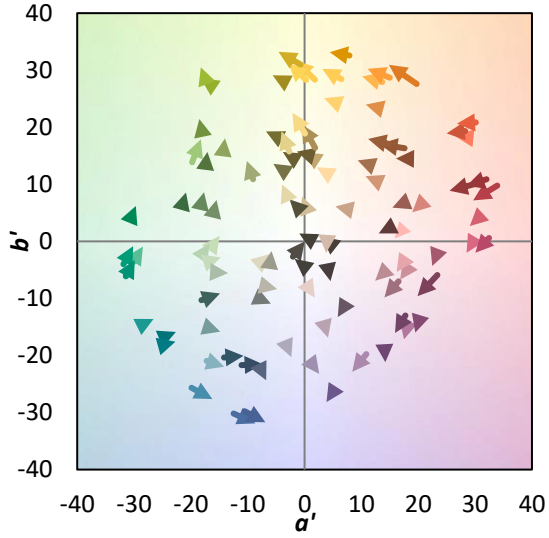


Color Vector Graphics







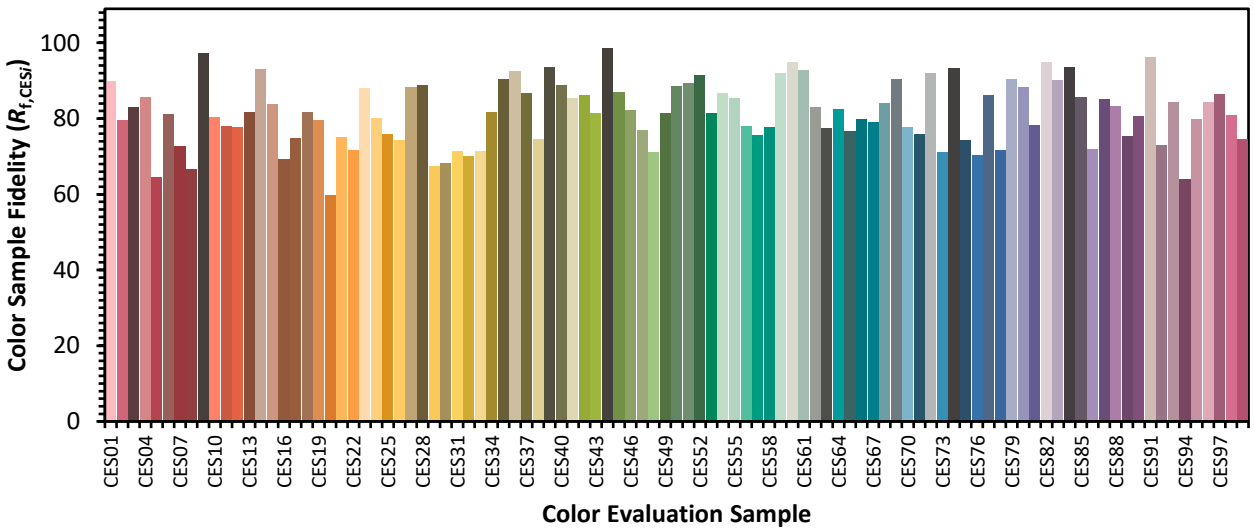


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Individual Sample Fidelity Index ($R_{f,i}$)

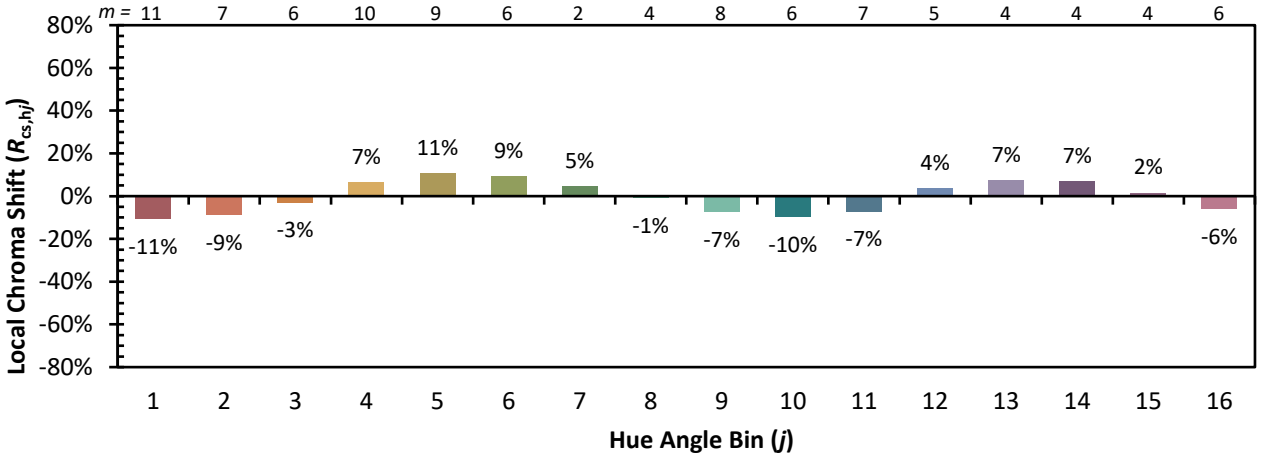
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

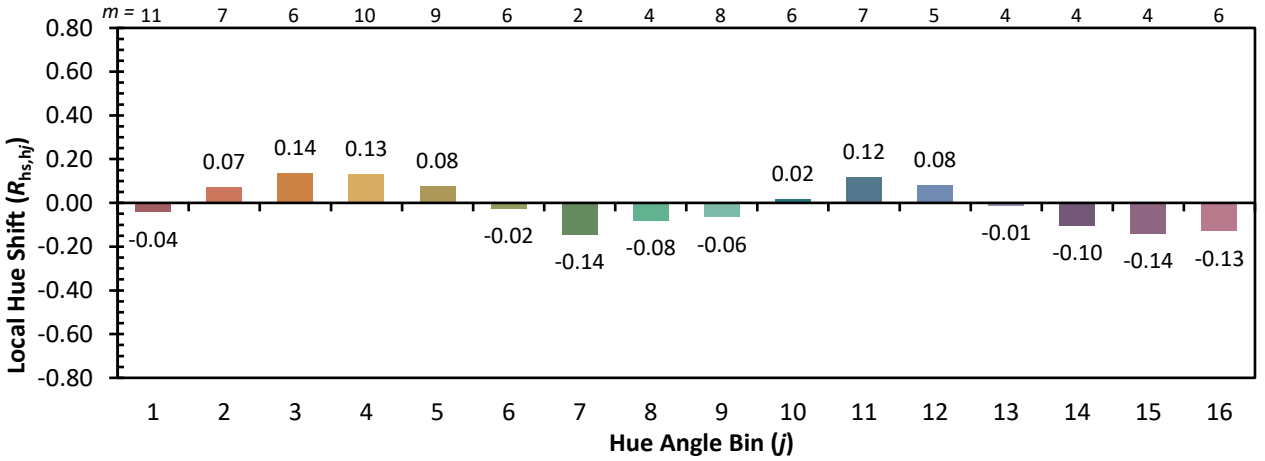


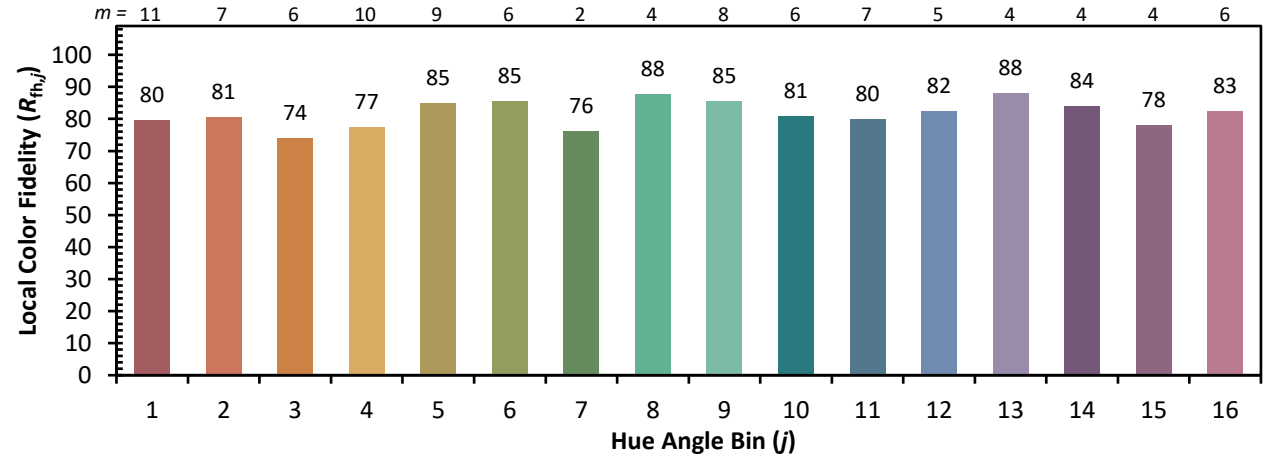
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Color Rendition by Hue-Angle Bin



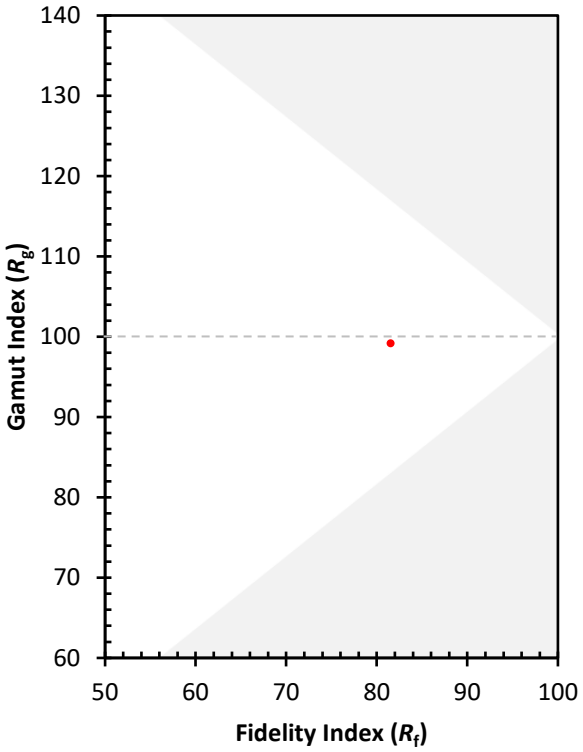


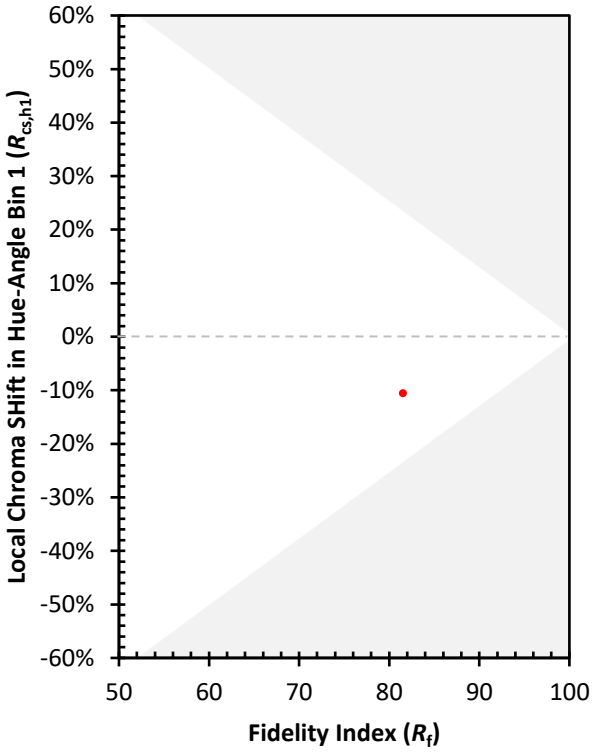


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Measure Comparisons





(END OF REPORT)