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: P1203116

Luminaire Tested: GWC-SB2B-830-U-SLR-HSS

Issue Date: 10/30/2025

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Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1203116
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)
Test Lab:	INNOVATION CENTER
Issue Date:	3/14/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWC-SB2B-830-U-SLR-HSS
Description:	GALLEON WALL LUMINAIRE
	(2) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT ELIMINATOF
	RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7720 lumens
Efficiency:	N/A
Efficacy:	104.5 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	73.9
Input Voltage (V):	120.0
Input Current (Ain):	0.627
Voltage Rise (V):	NR
Power Factor:	0.988
Total Harmonic Distortion (THDi):	13.593
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

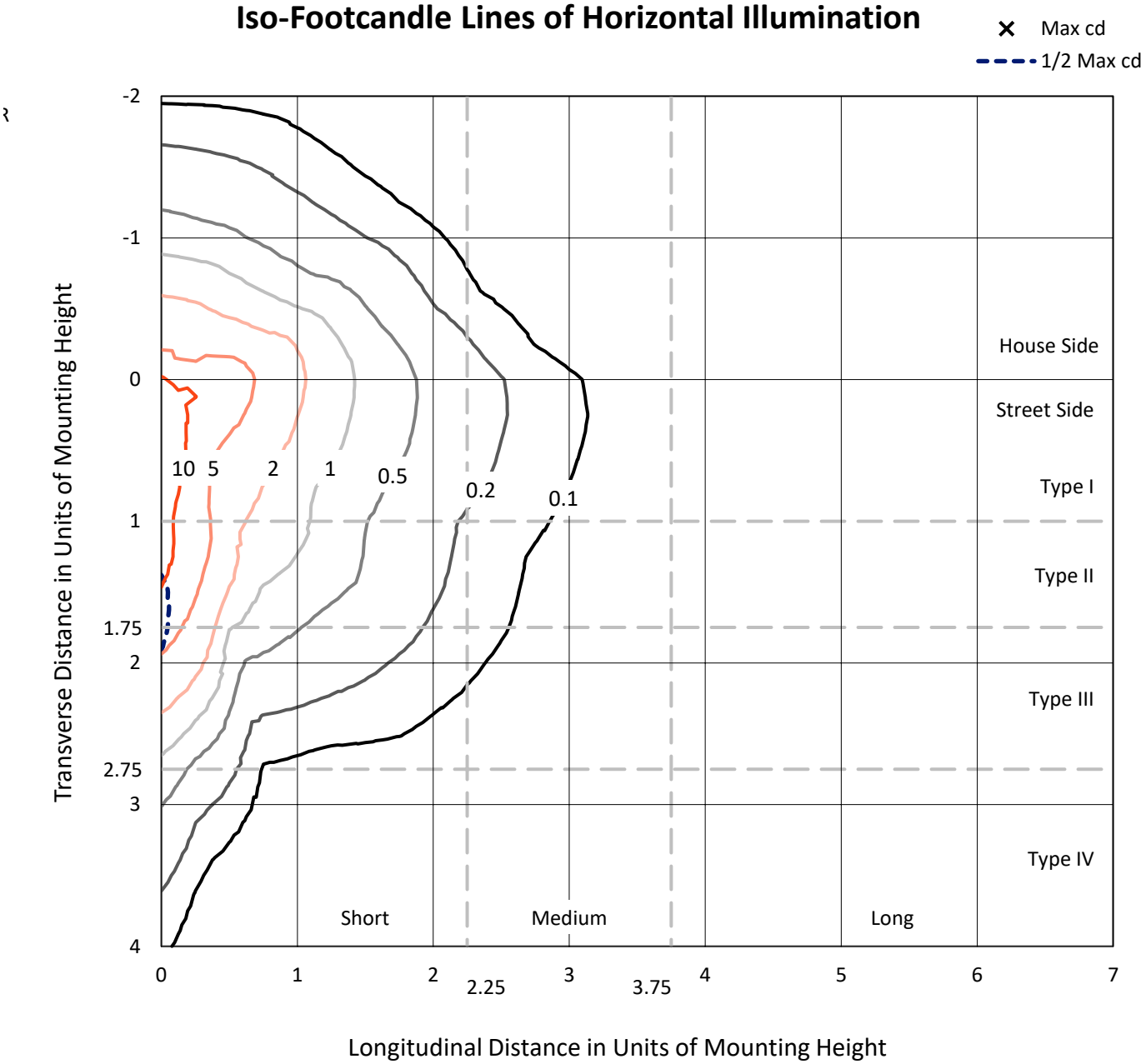


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Iso-Footcandle Lines of Horizontal Illumination



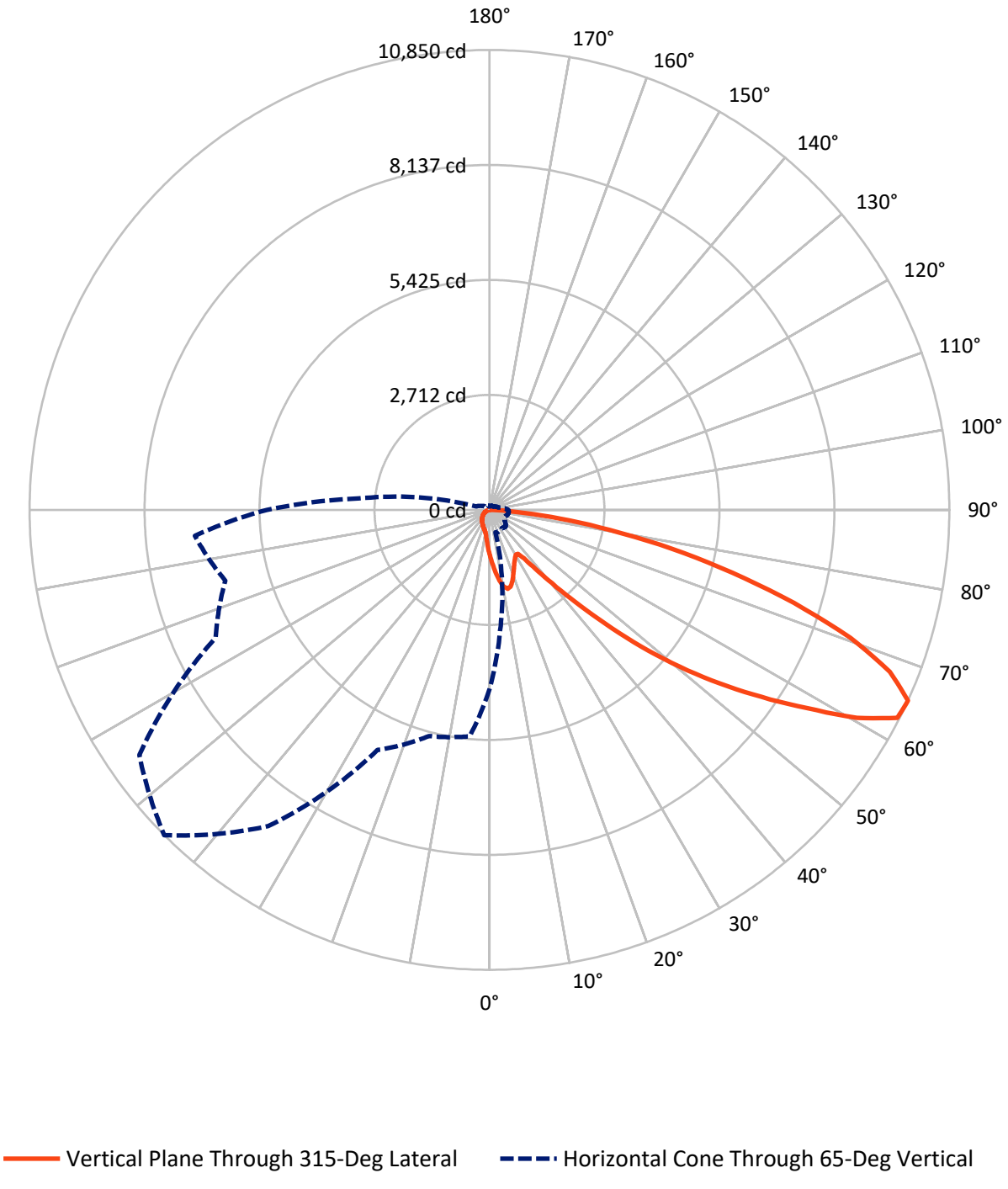
Based on 10 foot mounting height. Maximum calculated value = 19.2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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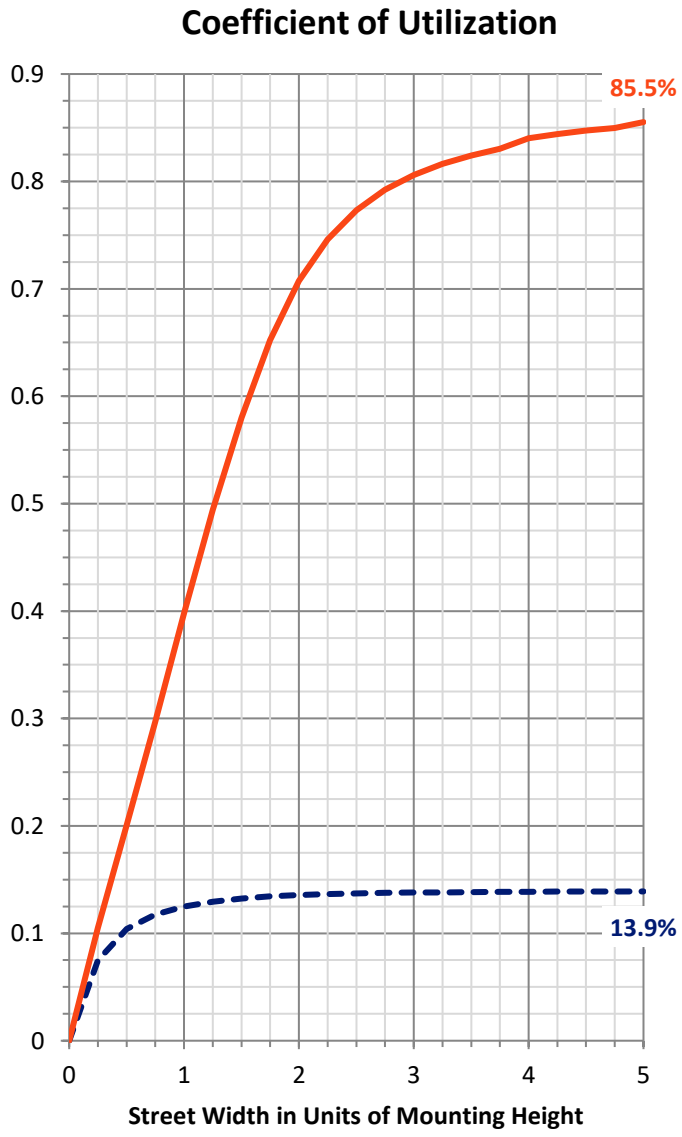
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1081.1	0.0	1081.1
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	6638.9	0.0	6638.9
	% Fixture	86.0	0.0	86.0
Total	Lumens	7720.0	0.0	7720.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.2	1.4
10°-20°	315.5	4.1
20°-30°	464.8	6.0
30°-40°	597.1	7.7
40°-50°	965.7	12.5
50°-60°	1693.5	21.9
60°-70°	2119.0	27.4
70°-80°	1238.2	16.0
80°-90°	220.9	2.9
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°	7720.0	100.0
0°-180°	7720.0	100.0



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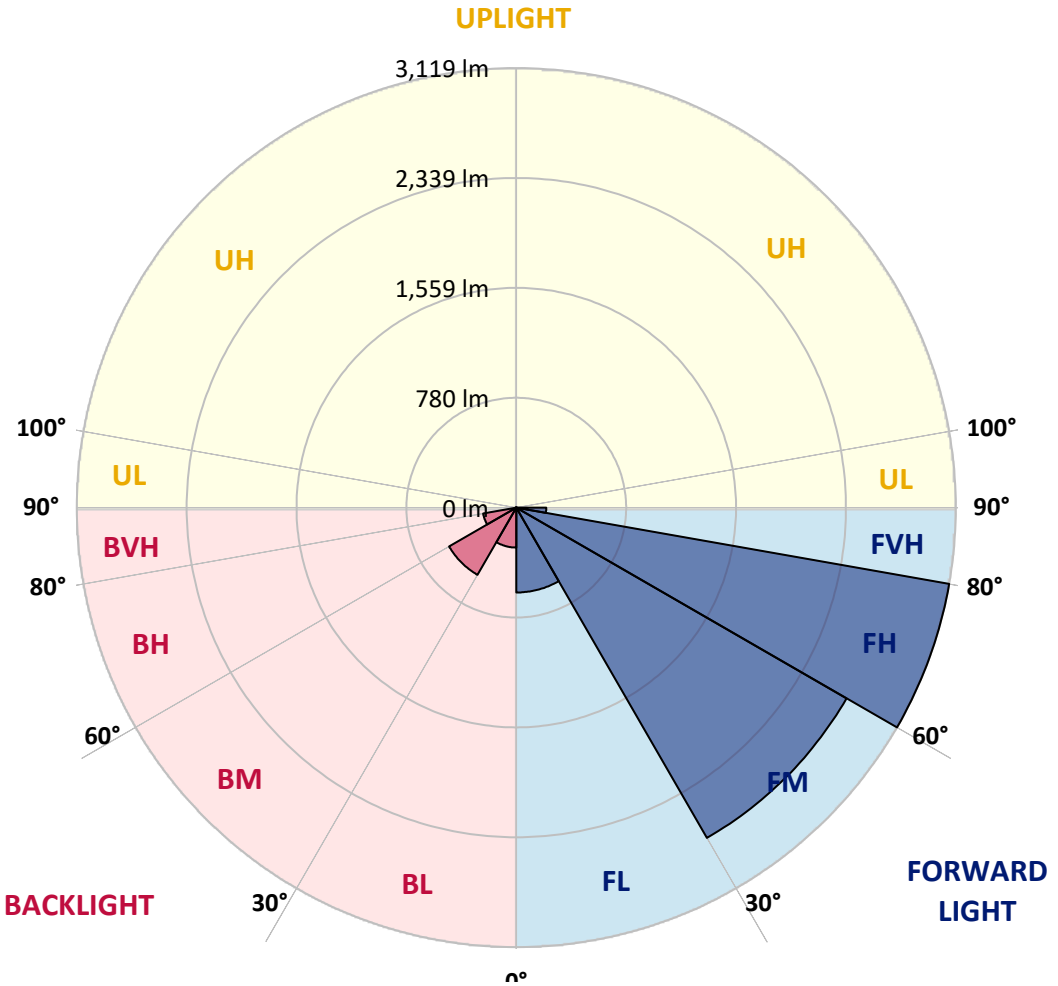
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	602.1	7.8			
FM	(30°-60°)	2705.8	35.0			
FH	(60°-80°)	3118.5	40.4			G2/5000
FVH	(80°-90°)	212.4	2.8			G2/225
BL	(0°-30°)	283.4	3.7	B1/500		
BM	(30°-60°)	550.5	7.1	B1/1000		
BH	(60°-80°)	238.7	3.1	B1/500		G1/500
BVH	(80°-90°)	8.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0
2.5°	1207.8	1187.0	1174.8	1144.5	1114.2	1089.7	1056.7	1034.9	1008.9	983.9	961.5
5°	1346.1	1312.5	1272.1	1216.8	1166.3	1114.7	1064.7	1015.3	963.1	915.3	886.0
7.5°	1463.1	1414.7	1343.4	1270.0	1205.7	1143.4	1084.9	1019.5	956.2	881.2	841.4
10°	1552.4	1490.7	1397.1	1300.8	1226.9	1164.2	1107.3	1052.0	988.1	897.7	847.7
12.5°	1606.7	1540.7	1429.6	1316.8	1232.2	1162.0	1117.9	1093.4	1068.4	978.6	920.1
15°	1646.5	1575.3	1452.4	1328.0	1220.0	1133.9	1101.4	1125.9	1154.6	1097.2	1029.6
17.5°	1688.0	1613.0	1482.2	1332.8	1187.0	1079.1	1065.3	1128.5	1195.0	1192.4	1125.3
20°	1727.4	1652.9	1508.3	1329.6	1133.9	1012.6	1024.8	1105.7	1182.8	1215.2	1179.1
22.5°	1772.6	1693.9	1533.3	1317.3	1064.7	950.4	988.7	1069.5	1137.0	1175.3	1164.2
25°	1827.9	1745.5	1568.4	1299.3	990.3	898.8	952.0	1027.5	1082.3	1108.9	1108.3
27.5°	1887.5	1807.1	1615.2	1289.7	930.2	862.1	910.5	977.5	1026.4	1045.0	1045.0
30°	1961.4	1878.9	1670.5	1279.0	890.8	840.8	867.4	919.5	967.4	986.0	986.0
32.5°	2042.2	1958.7	1723.7	1253.5	866.9	824.9	825.4	858.4	902.0	924.3	927.5
35°	2143.3	2054.4	1780.6	1197.7	847.7	806.3	784.4	800.4	836.6	863.2	870.1
37.5°	2287.4	2180.0	1850.2	1117.9	819.5	777.5	741.4	745.1	772.7	802.0	812.6
40°	2486.3	2348.5	1932.1	1034.9	779.1	737.1	694.0	692.4	712.6	741.4	753.1
42.5°	2755.4	2571.4	2030.5	955.7	740.3	688.2	644.0	641.4	657.3	682.3	694.6
45°	3110.7	2856.4	2151.2	887.6	710.0	640.3	596.7	595.6	608.9	630.7	643.5
47.5°	3565.4	3252.7	2272.0	841.4	694.0	602.6	557.9	560.0	571.7	591.4	600.4
50°	4154.1	3769.1	2308.7	818.0	694.0	582.4	523.3	534.0	543.5	558.4	563.7
52.5°	4859.8	4264.7	2187.4	796.7	698.3	585.0	494.1	516.9	523.8	536.6	538.7
55°	5514.0	4507.8	1880.5	767.4	699.4	601.5	469.1	503.1	515.9	520.7	520.1
57.5°	5893.7	4424.3	1520.5	718.0	695.1	612.7	453.1	486.1	510.6	513.7	509.0
60°	5821.4	4131.2	1119.5	680.2	663.7	608.4	448.3	460.0	498.9	503.6	497.3
62.5°	5264.0	3639.8	777.0	651.0	594.6	589.8	446.7	419.1	473.3	485.0	476.0
65°	*4231.2*	*2865.5*	*548.8*	*560.5*	*521.2*	*549.4*	*438.2*	*376.5*	*442.5*	*458.4*	*444.6*
67.5°	3069.7	1939.0	396.2	454.2	472.3	484.0	419.1	345.7	407.4	428.7	410.6
70°	1969.9	1047.2	278.1	300.0	397.8	411.1	386.1	318.0	371.7	396.2	376.5
72.5°	1400.3	618.5	200.0	210.1	319.6	342.5	339.8	287.2	330.3	360.0	336.6
75°	966.3	340.9	135.1	150.0	231.9	278.1	262.2	246.8	279.7	310.1	287.2
77.5°	605.8	152.6	80.8	104.2	152.1	218.6	179.8	190.9	218.0	246.2	222.3
80°	337.2	59.0	45.2	69.1	83.0	159.0	99.5	122.9	160.6	180.8	161.7
82.5°	73.4	7.4	20.2	29.8	32.4	92.5	52.7	71.3	101.0	99.5	86.2
85°	0.0	0.0	3.7	4.3	2.1	39.9	19.1	23.4	33.0	30.8	23.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0
2.5°	957.3	931.2	912.1	902.5	894.5	902.0	906.2	906.2	924.3	935.0	939.2
5°	867.4	820.6	785.0	761.0	746.7	751.5	756.8	762.6	785.5	800.9	811.0
7.5°	805.2	733.4	679.1	645.6	628.1	630.7	634.5	639.3	661.6	677.0	690.3
10°	793.5	690.3	613.7	569.6	548.3	544.6	542.5	540.9	554.2	565.9	576.5
12.5°	841.4	692.4	585.5	531.8	505.8	494.6	481.8	471.7	473.9	481.3	494.6
15°	927.0	719.6	576.5	512.1	479.7	461.1	446.2	434.0	431.3	434.0	436.1
17.5°	1024.8	756.3	575.4	495.1	454.7	435.6	423.3	412.2	408.4	409.0	411.6
20°	1089.7	785.5	572.2	476.0	430.8	413.8	403.1	392.0	388.2	389.3	389.8
22.5°	1096.1	800.9	567.5	454.7	406.8	392.5	381.9	371.7	371.2	371.2	374.4
25°	1061.5	800.9	557.4	435.6	384.0	371.2	361.6	349.4	351.5	352.6	356.9
27.5°	1007.8	781.8	538.2	420.1	364.3	351.0	341.4	330.3	332.9	334.5	339.3
30°	954.6	757.3	515.3	402.6	345.7	330.3	323.4	313.8	314.8	317.0	322.3
32.5°	905.2	731.3	488.2	388.2	327.1	311.7	306.3	295.7	297.3	299.4	305.3
35°	856.2	702.5	456.3	371.2	310.1	294.6	290.4	278.1	279.2	282.4	288.8
37.5°	803.6	672.2	430.2	354.2	293.6	277.6	273.4	260.6	261.7	265.4	272.8
40°	748.3	642.4	404.7	336.1	276.0	260.1	256.3	242.5	243.6	247.8	255.8
42.5°	692.4	610.0	385.0	312.7	257.9	240.9	237.2	224.4	226.0	230.8	238.8
45°	640.9	571.2	372.3	286.7	240.9	221.8	218.0	206.3	209.5	214.9	222.8
47.5°	596.7	531.3	367.0	264.9	222.8	202.1	198.9	189.3	194.6	200.5	206.9
50°	559.0	493.0	360.0	242.5	205.8	185.1	181.9	175.5	182.4	188.3	194.1
52.5°	531.8	449.4	345.2	222.3	190.9	170.7	169.7	166.5	172.8	178.2	183.5
55°	508.4	404.2	321.2	204.8	177.6	158.5	159.5	158.0	163.3	167.5	172.3
57.5°	487.2	364.8	290.9	190.9	163.3	147.8	151.0	148.9	151.6	154.2	160.1
60°	461.6	324.9	254.7	175.5	146.3	137.2	140.9	135.1	134.6	135.6	137.2
62.5°	423.9	271.2	217.0	156.4	131.4	125.5	127.1	115.9	107.4	107.4	109.0
65°	*371.2*	*218.0*	*181.9*	*135.1*	*114.3*	*109.6*	*108.5*	*92.5*	*80.8*	*79.8*	*84.6*
67.5°	310.1	179.2	151.0	113.8	95.2	92.0	93.1	81.4	69.7	68.6	73.9
70°	252.6	148.4	121.8	90.9	73.4	76.6	81.4	69.7	58.5	56.9	61.7
72.5°	205.3	118.1	95.2	69.7	54.2	63.3	69.1	56.9	46.3	45.2	49.5
75°	158.5	86.7	68.1	47.3	39.4	48.9	54.2	41.5	33.0	31.4	35.1
77.5°	105.8	53.7	38.3	29.8	23.4	33.5	36.2	21.8	19.1	18.6	21.3
80°	64.4	25.0	16.5	14.4	8.0	12.2	14.4	9.0	10.1	10.6	12.8
82.5°	32.4	6.9	2.7	0.5	0.0	0.0	4.3	2.1	4.3	5.3	8.0
85°	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.7	4.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0	1069.0
2.5°	969.0	991.3	1012.6	1046.6	1081.7	1116.3	1151.4	1185.4	1197.7	1206.7	1226.9
5°	857.3	899.3	948.2	1015.8	1088.1	1162.6	1238.1	1307.2	1338.6	1359.9	1407.7
7.5°	741.9	796.7	866.9	968.5	1081.7	1200.3	1318.9	1428.0	1478.5	1519.4	1592.3
10°	627.6	687.1	775.9	891.9	1045.0	1215.2	1379.0	1529.0	1594.4	1646.0	1744.9
12.5°	527.0	582.9	676.0	804.1	987.6	1203.5	1413.6	1593.9	1671.0	1729.0	1837.5
15°	456.3	495.7	578.1	716.4	919.5	1165.8	1415.7	1624.7	1709.3	1769.9	1864.1
17.5°	417.0	430.2	484.0	627.0	844.0	1116.3	1396.0	1635.4	1725.8	1782.2	1847.6
20°	395.7	397.8	412.7	511.1	747.2	1070.0	1377.4	1646.0	1741.2	1788.5	1808.2
22.5°	378.7	378.7	382.4	418.0	622.2	1014.7	1371.6	1664.6	1762.5	1791.7	1751.3
25°	363.2	363.2	364.3	373.9	493.0	930.2	1367.9	1693.3	1791.7	1799.7	1688.6
27.5°	347.3	347.8	347.8	353.1	397.3	815.3	1351.9	1730.6	1826.8	1810.3	1628.5
30°	331.3	332.4	332.4	336.1	351.5	680.7	1320.5	1775.2	1872.6	1824.2	1568.9
32.5°	315.4	316.4	316.4	319.6	330.8	543.5	1281.2	1816.2	1918.8	1830.0	1513.6
35°	298.9	300.5	299.4	303.7	315.4	432.4	1231.2	1857.1	1968.8	1848.6	1486.5
37.5°	282.4	283.5	282.9	287.2	300.5	373.3	1173.2	1888.0	2036.9	1890.1	1518.9
40°	265.9	265.4	265.4	270.2	284.5	356.3	1100.4	1936.9	2134.8	1963.0	1660.4
42.5°	248.9	248.9	247.8	253.1	270.7	343.6	1030.7	2024.7	2277.3	2078.9	1911.4
45°	233.5	232.9	230.8	235.6	257.4	321.2	1006.2	2188.5	2487.9	2266.6	2215.1
47.5°	218.6	218.0	212.7	217.0	241.4	301.0	1097.7	2456.5	2779.9	2542.7	2499.6
50°	205.3	205.8	195.7	199.4	225.5	285.6	1296.1	2804.3	3167.6	2914.4	2769.2
52.5°	193.1	193.1	179.8	181.9	205.8	271.8	1484.9	3181.4	3679.2	3432.9	3083.5
55°	180.8	179.8	164.9	165.9	186.1	252.1	1513.0	3549.4	4376.9	4213.1	3513.3
57.5°	167.0	164.9	151.0	151.0	168.1	237.7	1311.5	3832.3	5242.8	5359.8	4132.8
60°	150.0	148.4	139.3	136.7	153.7	250.5	925.4	3865.3	5801.2	6884.5	5319.3
62.5°	128.2	130.3	125.5	121.8	139.9	260.1	548.3	3599.9	5666.1	7369.5	6740.4
65°	*101.0*	*109.6*	*108.5*	*105.8*	*153.7*	*219.1*	*323.9*	*3090.4*	*5251.8*	*6978.1*	*6450.5*
67.5°	86.2	92.0	90.4	90.4	161.1	166.5	203.7	2414.5	4681.7	6513.8	5761.8
70°	73.4	79.2	73.4	73.4	121.8	101.0	140.9	1685.9	4066.4	6000.1	5309.8
72.5°	60.6	66.5	60.1	55.8	97.3	75.5	103.2	1053.5	3482.4	5465.1	5000.2
75°	46.3	53.2	48.4	43.1	64.4	56.4	78.2	612.1	2885.2	4675.8	4559.4
77.5°	29.3	38.3	36.2	30.3	47.3	41.0	56.4	364.3	2226.2	3653.7	3921.7
80°	18.1	19.7	20.2	19.1	27.1	27.7	38.3	207.4	1523.7	2546.4	3063.9
82.5°	11.7	11.7	9.0	10.1	13.3	16.0	21.8	78.2	895.6	1550.3	2132.6
85°	8.5	7.4	4.8	4.8	6.4	8.0	8.5	23.9	363.2	612.1	833.9
87.5°	4.3	3.7	1.6	2.1	3.2	2.7	2.1	1.1	91.5	195.7	137.2
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
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1203116
CATALOG NUMBER: GWC-SB2B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1069.0	1069.0	*1069.0*	1069.0	1069.0	1069.0	1069.0	1069.0
2.5°	1237.6	1254.0	*1255.1*	1255.1	1240.8	1240.2	1211.0	1207.8
5°	1457.2	1467.8	*1470.5*	1465.2	1436.5	1415.2	1358.3	1346.1
7.5°	1658.2	1679.5	*1679.5*	1666.7	1619.9	1576.3	1493.9	1463.1
10°	1818.8	1843.3	*1838.0*	1811.9	1752.9	1692.8	1592.8	1552.4
12.5°	1897.0	1922.0	*1908.2*	1878.4	1821.0	1757.7	1652.4	1606.7
15°	1895.4	1888.5	*1874.2*	1870.4	1842.8	1794.9	1696.5	1646.5
17.5°	1827.9	1769.4	*1758.2*	1795.4	1830.5	1818.8	1734.8	1688.0
20°	1721.0	1618.9	*1608.8*	1680.0	1780.0	1831.1	1770.5	1727.4
22.5°	1608.2	1498.2	*1474.8*	1553.5	1704.0	1834.8	1815.7	1772.6
25°	1501.3	1390.7	*1367.3*	1440.7	1619.4	1828.4	1864.6	1827.9
27.5°	1412.0	1305.1	*1283.3*	1356.7	1538.0	1810.3	1913.5	1887.5
30°	1342.9	1243.9	*1228.0*	1298.7	1467.8	1788.0	1975.7	1961.4
32.5°	1302.4	1230.1	*1236.0*	1293.9	1430.1	1763.5	2035.3	2042.2
35°	1342.3	1345.5	*1396.6*	1420.5	1465.2	1759.8	2116.1	2143.3
37.5°	1540.7	1651.3	*1757.2*	1737.5	1637.0	1802.9	2236.9	2287.4
40°	1878.4	2105.5	*2277.3*	2202.3	1949.1	1934.8	2410.8	2486.3
42.5°	2291.1	2676.2	*2959.1*	2758.1	2351.7	2165.6	2659.1	2755.4
45°	2726.7	3379.8	*3825.4*	3407.4	2780.9	2489.0	3035.1	3110.7
47.5°	3185.6	4234.9	*4811.4*	4127.5	3178.7	2857.0	3547.8	3565.4
50°	3687.7	5172.6	*5816.6*	4847.1	3562.7	3278.7	4174.3	4154.1
52.5°	4165.8	6136.8	*6800.5*	5569.8	3899.9	3802.0	4901.3	4859.8
55°	4622.1	7100.4	*7790.2*	6264.4	4217.9	4493.4	5765.0	5514.0
57.5°	5151.3	7966.8	*8810.3*	6962.2	4662.5	5391.1	6730.8	5893.7
60°	5933.6	8951.2	*9963.8*	7918.4	5508.1	6334.6	7077.0	5821.4
62.5°	6932.4	9856.4	*10802.5*	8855.5	6357.5	6512.2	6567.0	5264.0
65°	*7126.5*	*10085.6*	*10849.8*	*9105.9*	*6247.9*	*5524.1*	*5361.4*	*4231.2*
67.5°	6611.7	9671.3	*10188.2*	8639.5	5526.7	4269.0	4023.3	3069.7
70°	6034.1	8881.5	*9035.2*	7846.6	4860.9	3139.9	2717.1	1969.9
72.5°	5442.2	7828.0	*7509.9*	6814.3	4272.2	2286.3	1959.8	1400.3
75°	4739.1	6442.6	*5915.5*	5661.8	3537.2	1794.4	1417.9	966.3
77.5°	3795.1	4534.9	*4394.0*	4388.6	2658.1	1311.0	946.1	605.8
80°	2677.2	2943.1	*2871.3*	3305.3	1783.2	950.9	569.6	337.2
82.5°	1296.1	1627.4	*1670.5*	1968.3	867.4	559.5	131.4	73.4
85°	507.4	785.0	*662.1*	747.2	243.6	155.8	3.2	0.0
87.5°	56.9	90.9	*83.5*	65.9	29.8	6.4	0.0	0.0
90°	0.0	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

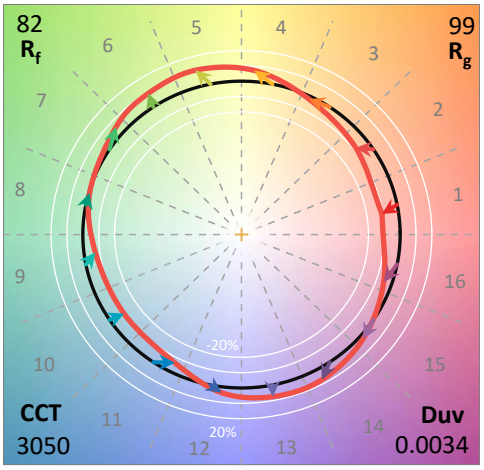
Test Information

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

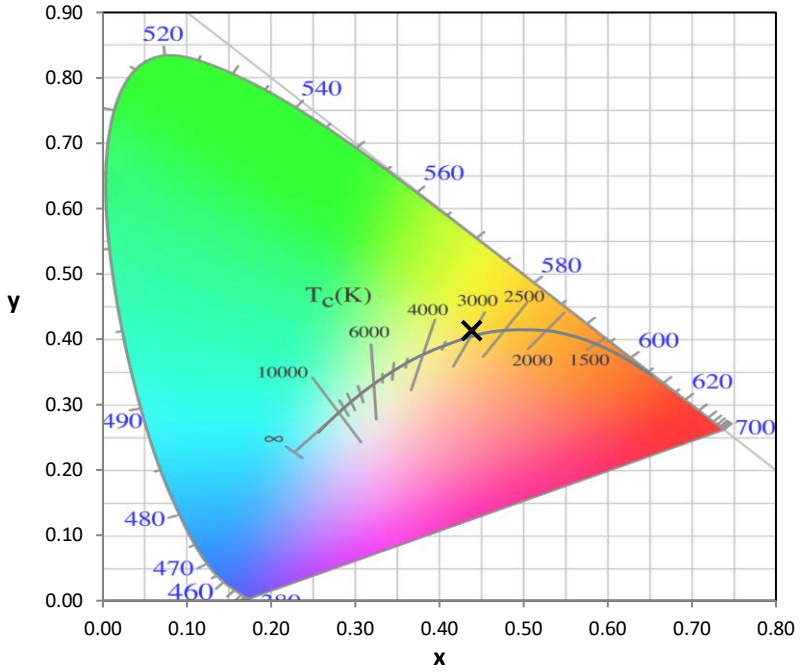
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

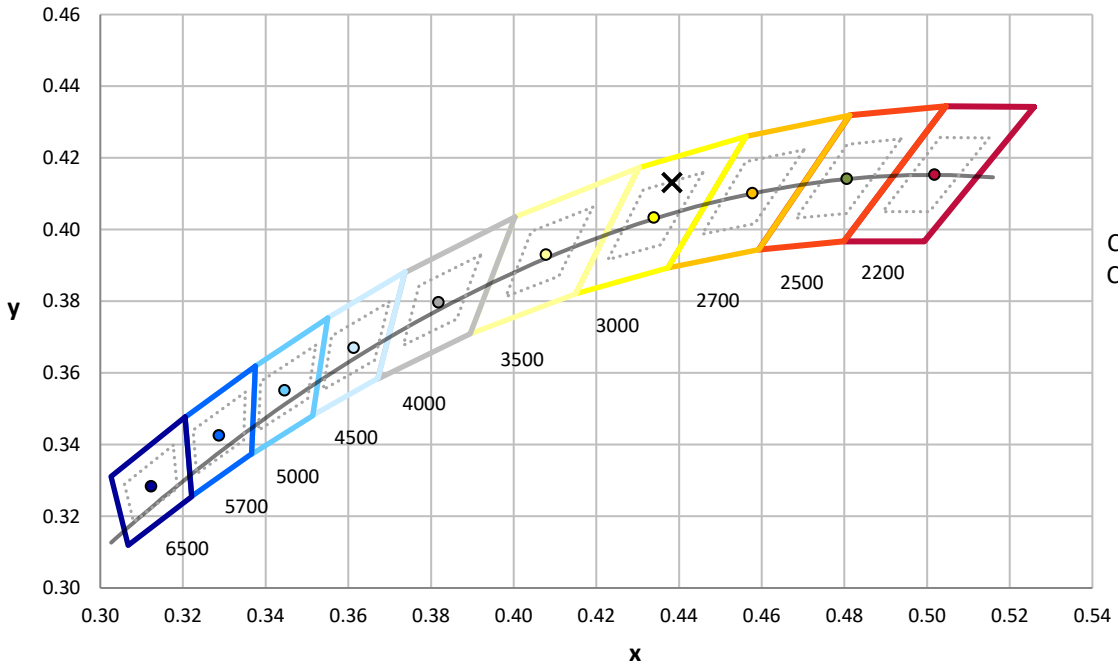
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2408-195-9

CIE 1931 Chromaticity Diagram



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

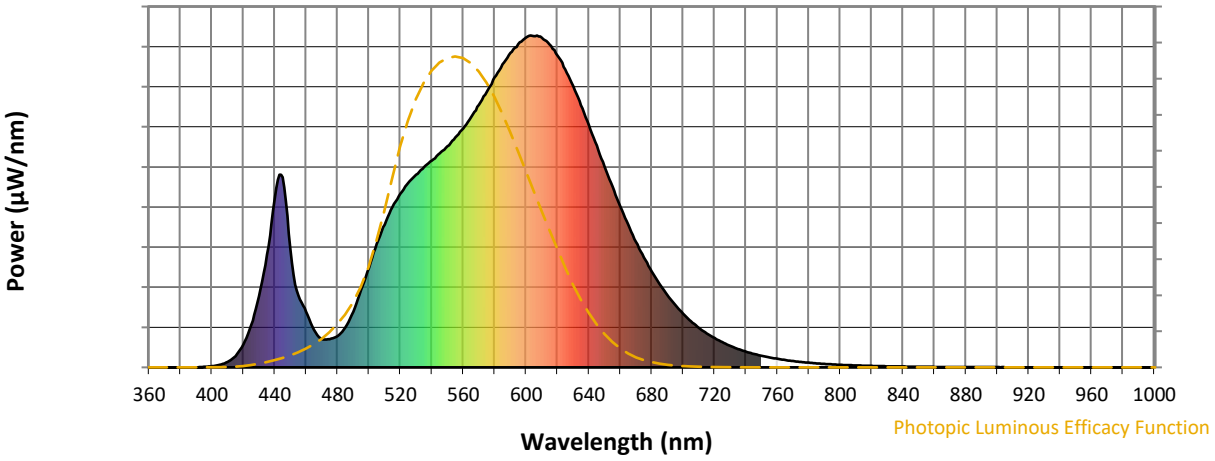


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

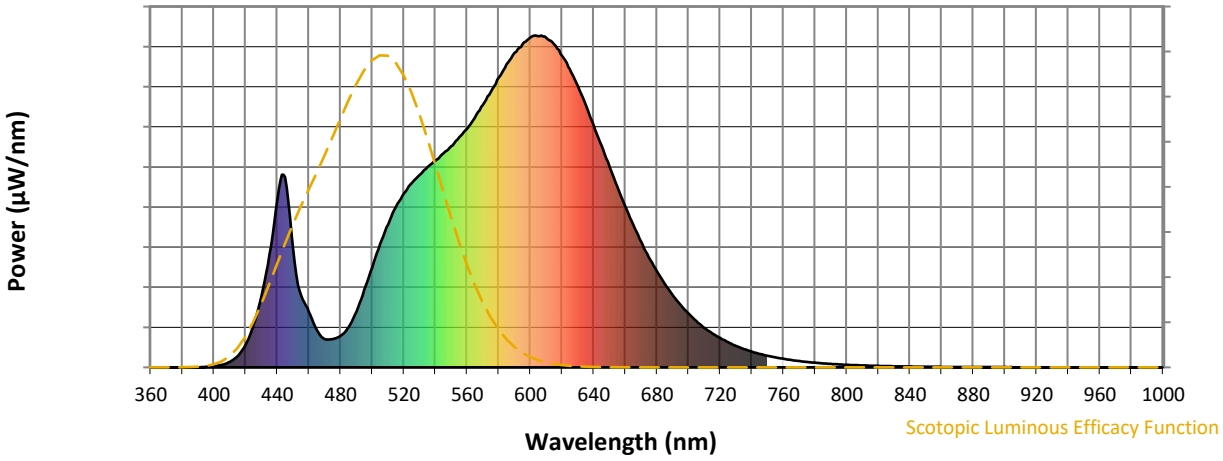


Photopic Lumens: NR

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

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength

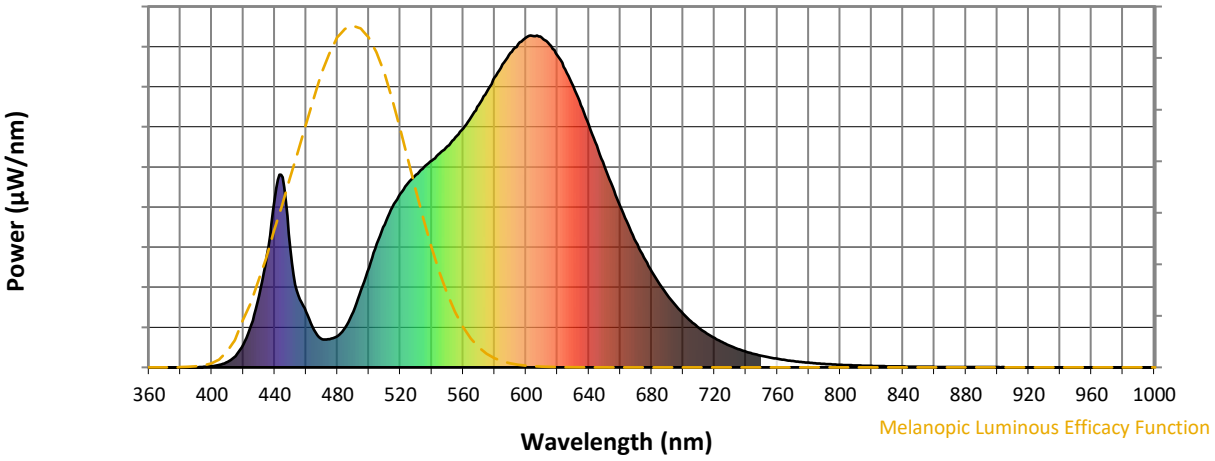


Scotopic Lumens: NR **S/P: 1.27**

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

REPORT NUMBER: SP1-2408-195-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.32**

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

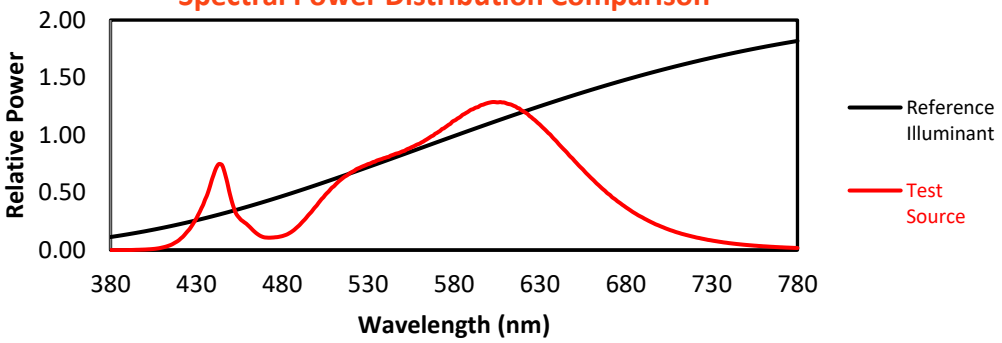
REPORT NUMBER: SP1-2408-195-9

TM-30-18

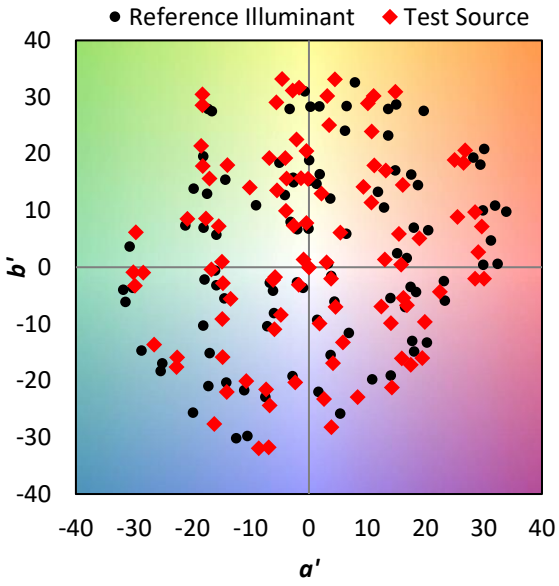
Summary

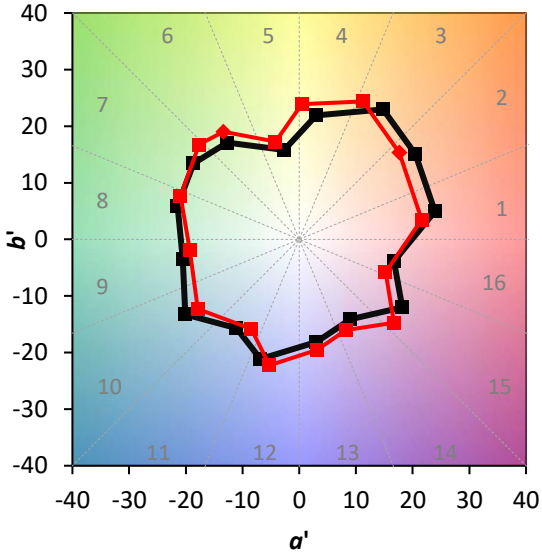
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R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

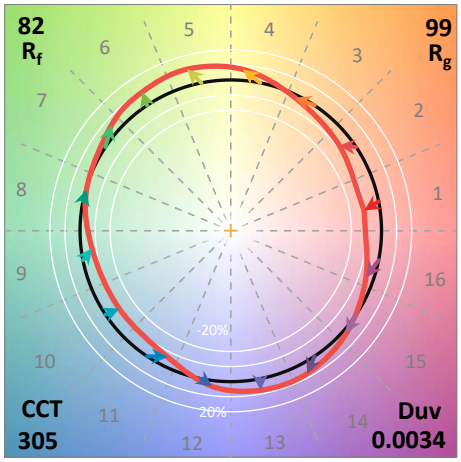
Spectral Power Distribution Comparison

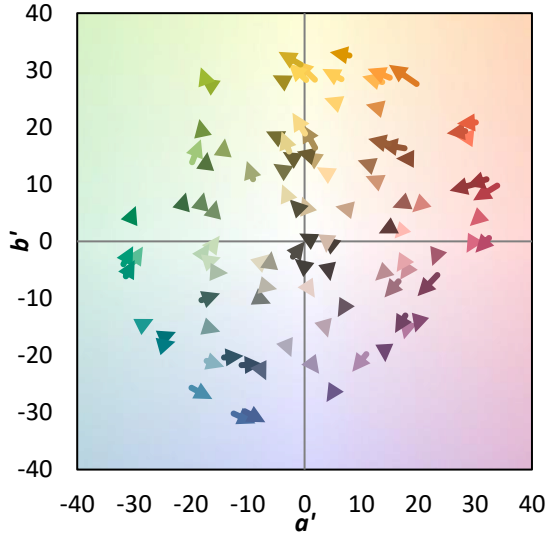


Color Vector Graphics







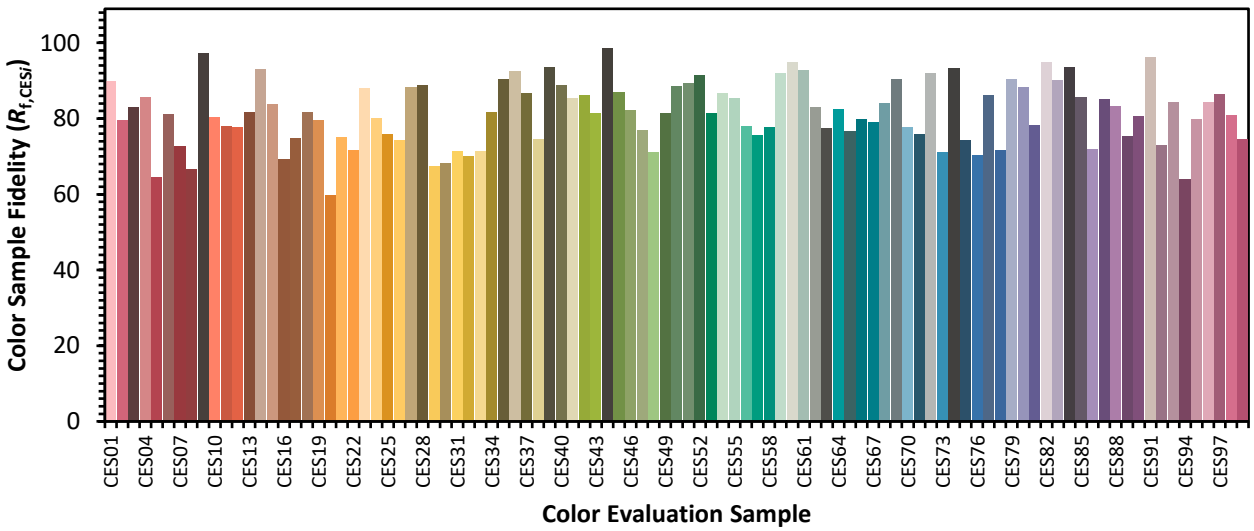


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

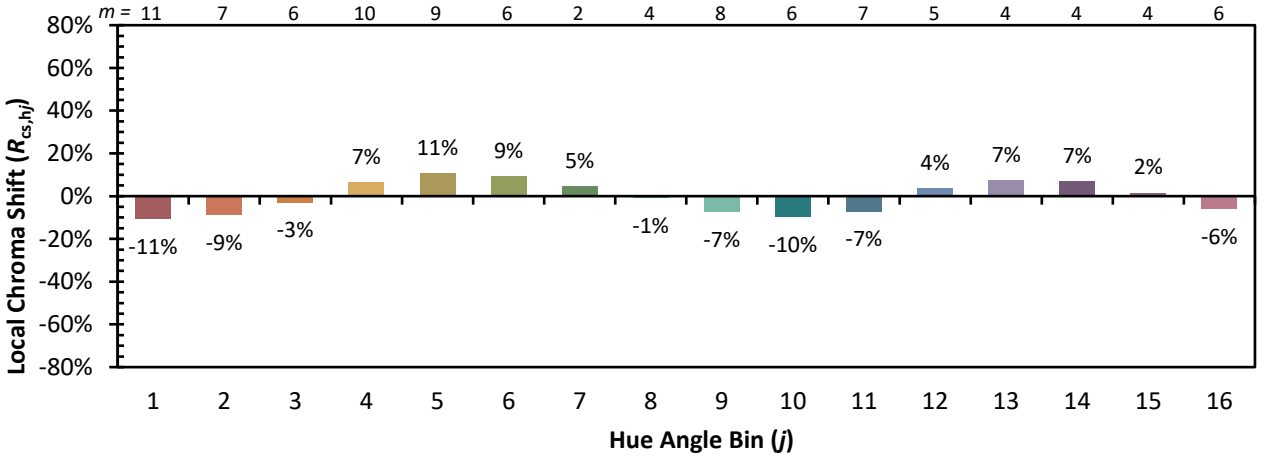
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CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57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

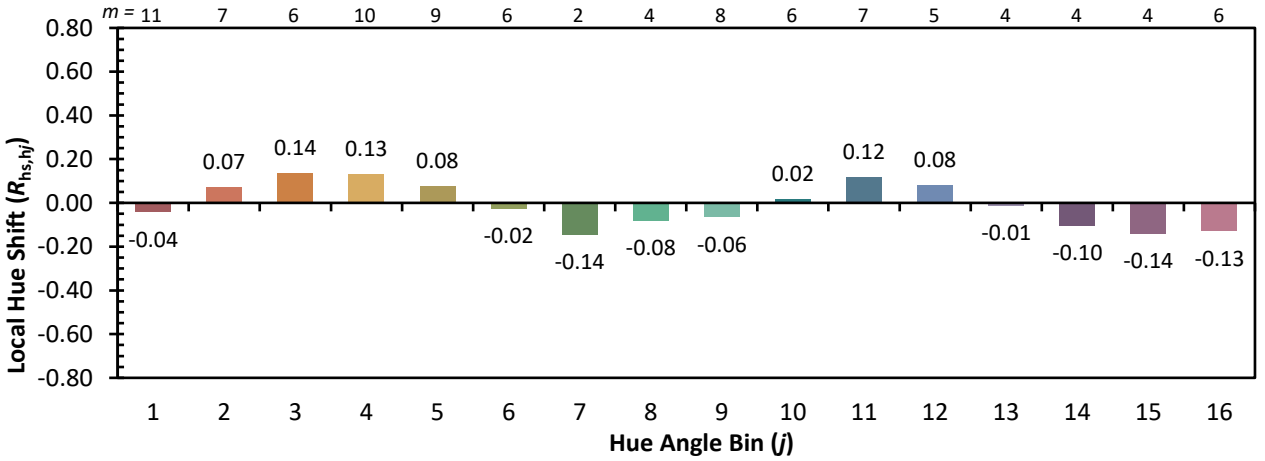


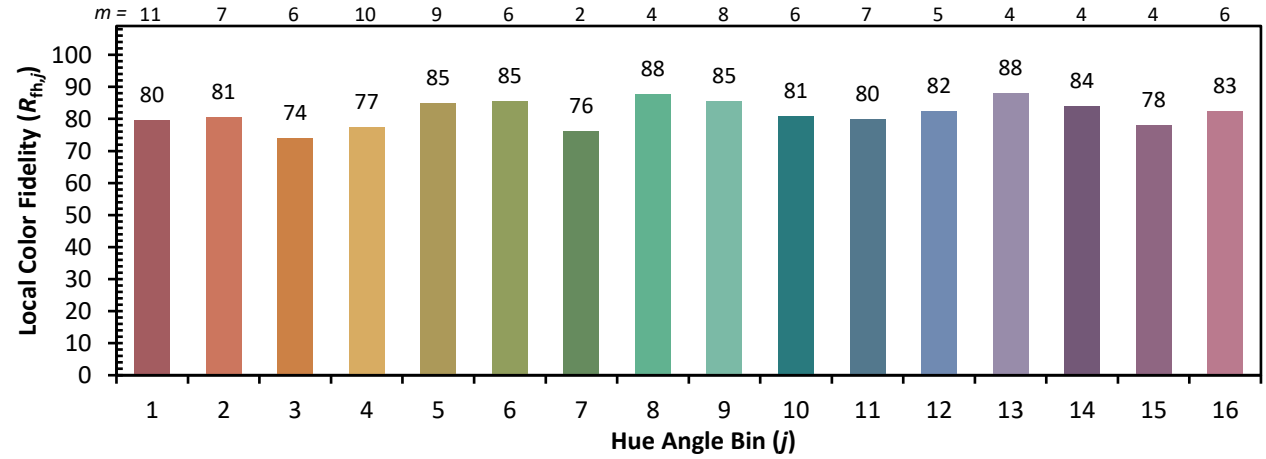
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Color Rendition by Hue-Angle Bin



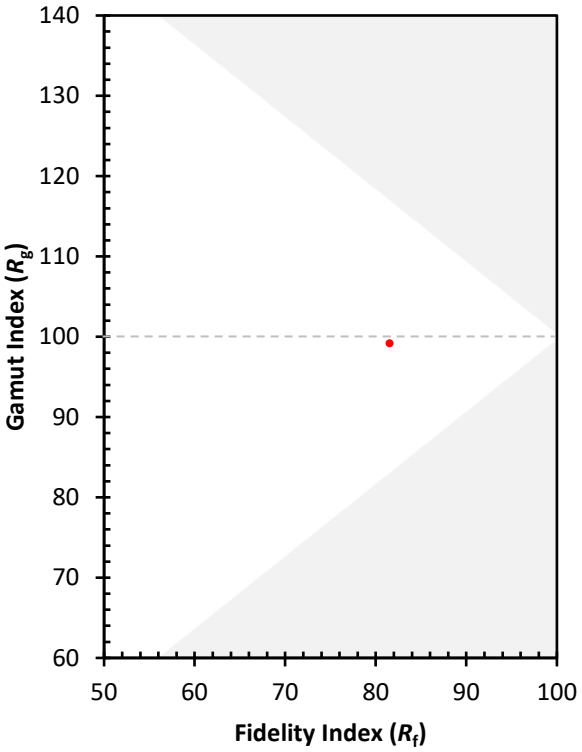


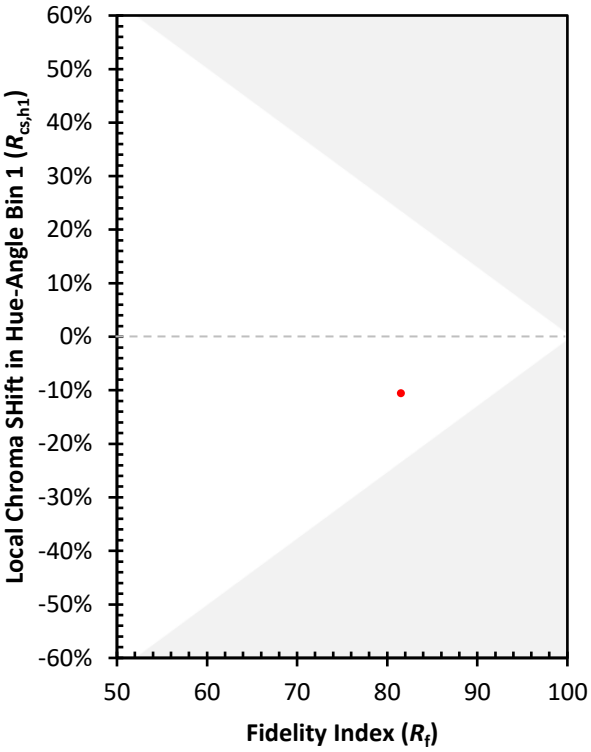


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Measure Comparisons





(END OF REPORT)