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: P1203864

Luminaire Tested: GWC-SB2D-830-U-SLR-HSS

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:	P1203864
	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-SB2D-830-U-SLR-HSS
Description:	GALLEON WALL LUMINAIRE
	(2) 80 CRI, 3000K, 900mA 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:	13953 lumens
Efficiency:	N/A
Efficacy:	94.5 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U0 - G3

Input Watts (W):	147.6
Input Voltage (V):	120.0
Input Current (Ain):	1.234
Voltage Rise (V):	NR
Power Factor:	0.999
Total Harmonic Distortion (THDi):	3.108
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

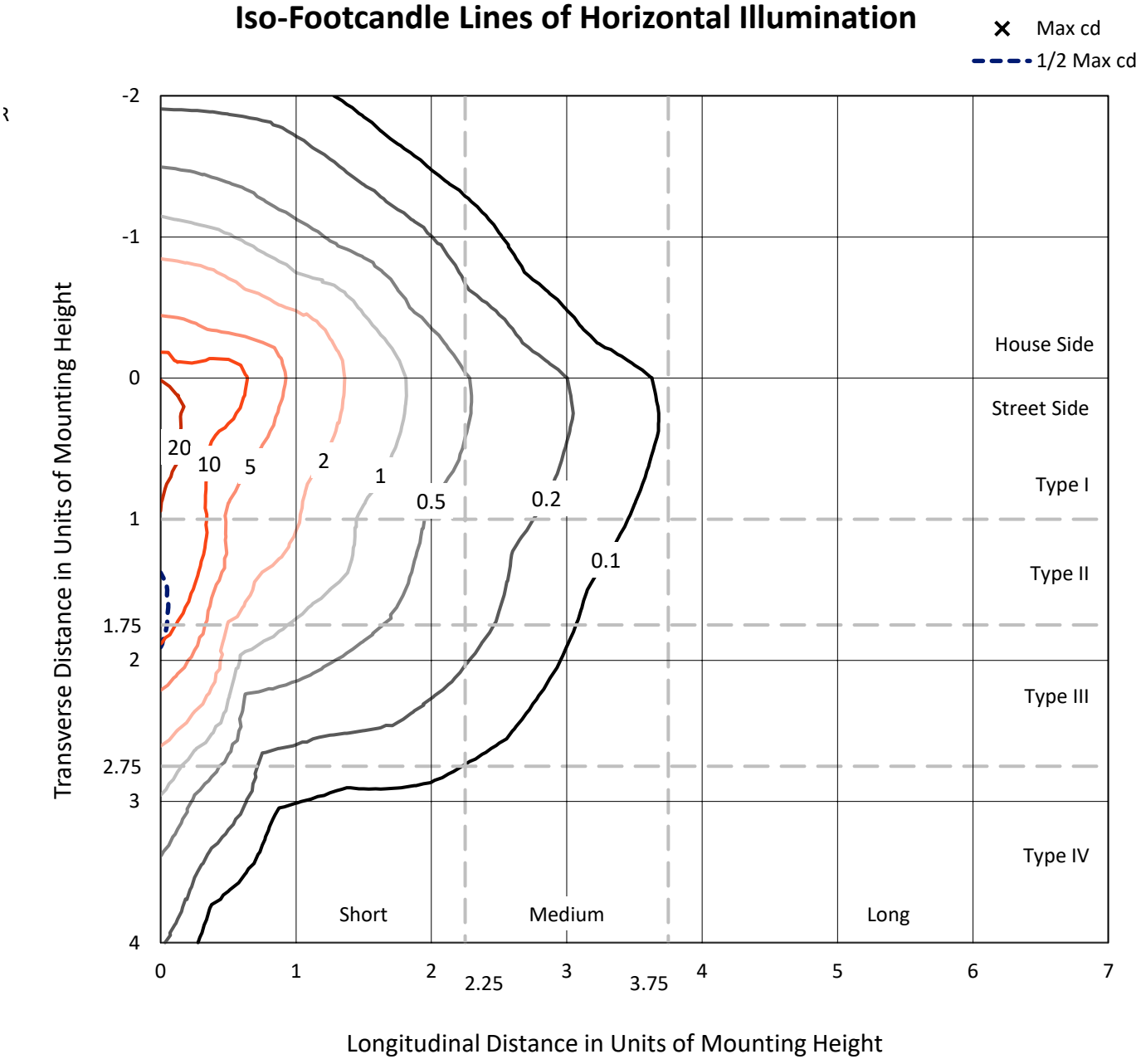


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Iso-Footcandle Lines of Horizontal Illumination



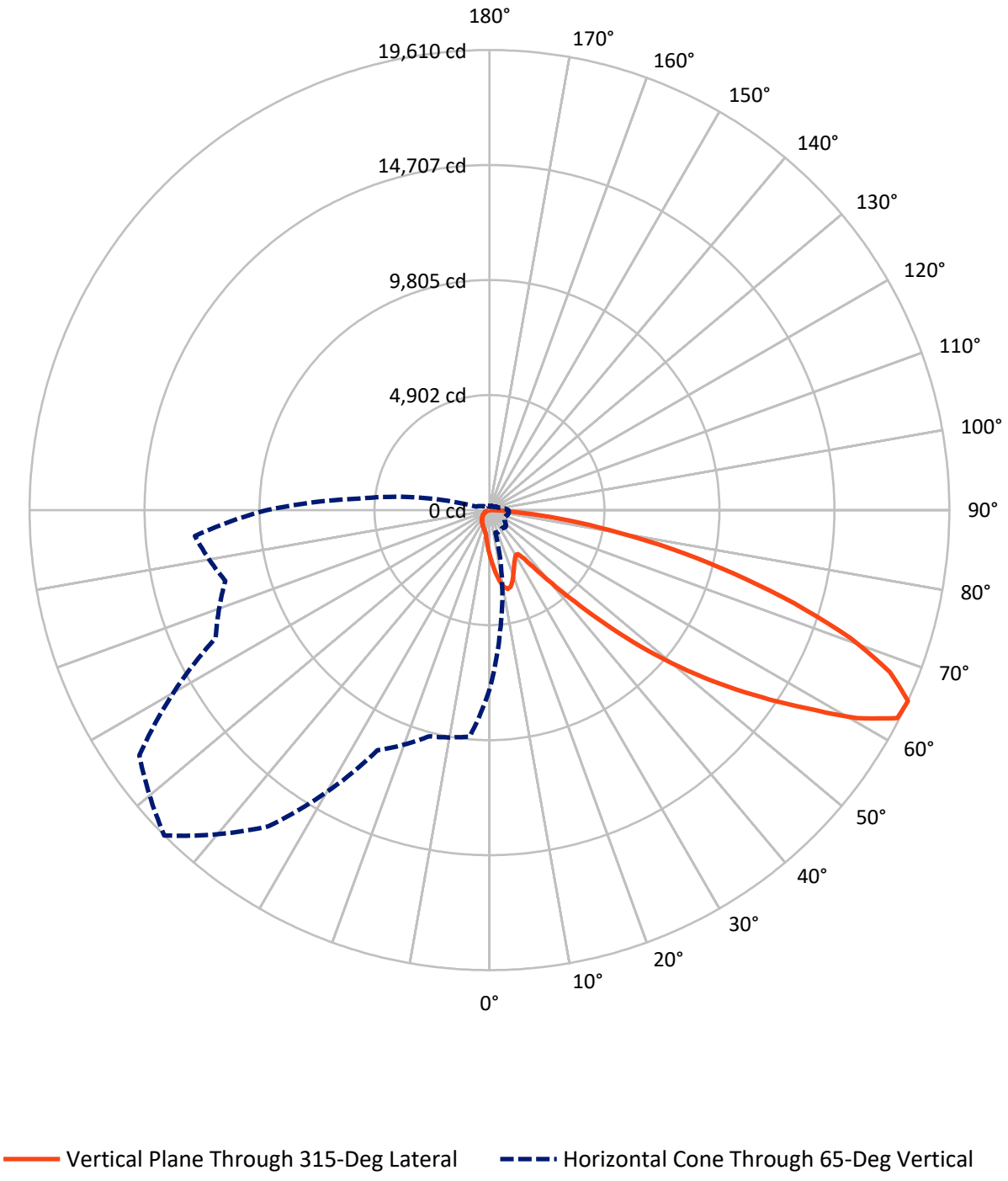
Based on 10 foot mounting height. Maximum calculated value = 34.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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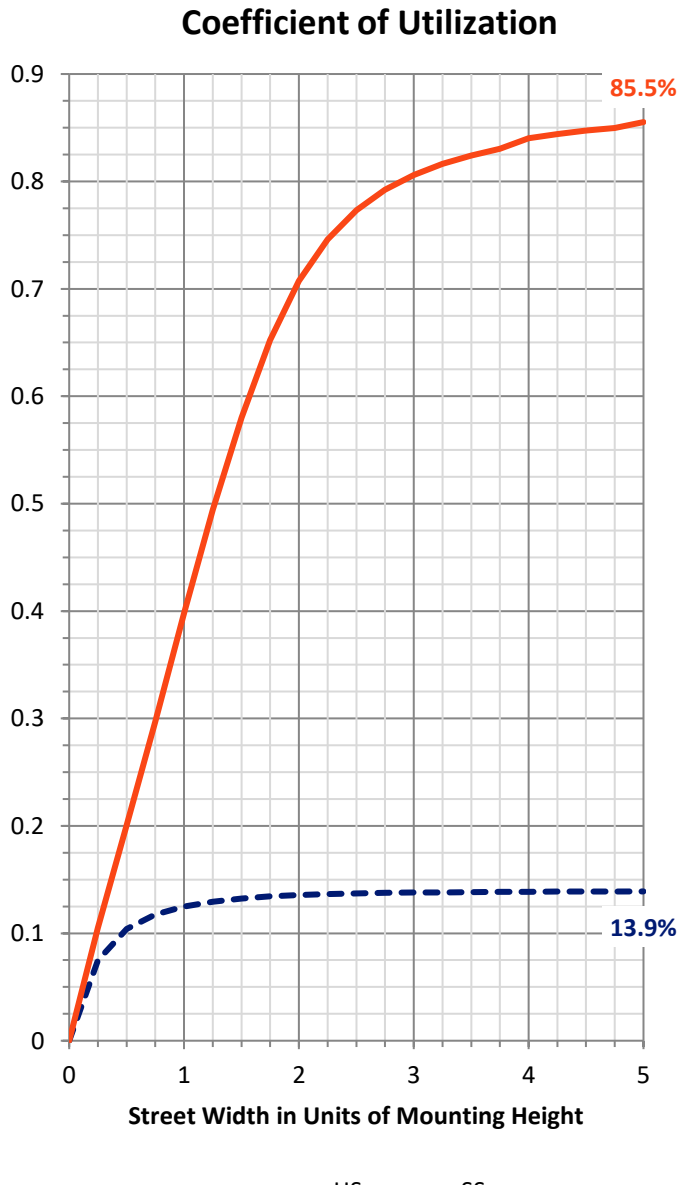
REPORT NUMBER: P1203864
CATALOG NUMBER: GWC-SB2D-830-U-SLR-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1954.0	0.0	1954.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	11999.0	0.0	11999.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	13953.0	0.0	13953.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.2	1.4
10°-20°	570.2	4.1
20°-30°	840.0	6.0
30°-40°	1079.2	7.7
40°-50°	1745.4	12.5
50°-60°	3060.8	21.9
60°-70°	3829.8	27.4
70°-80°	2238.0	16.0
80°-90°	399.3	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°	13953.0	100.0
0°-180°	13953.0	100.0



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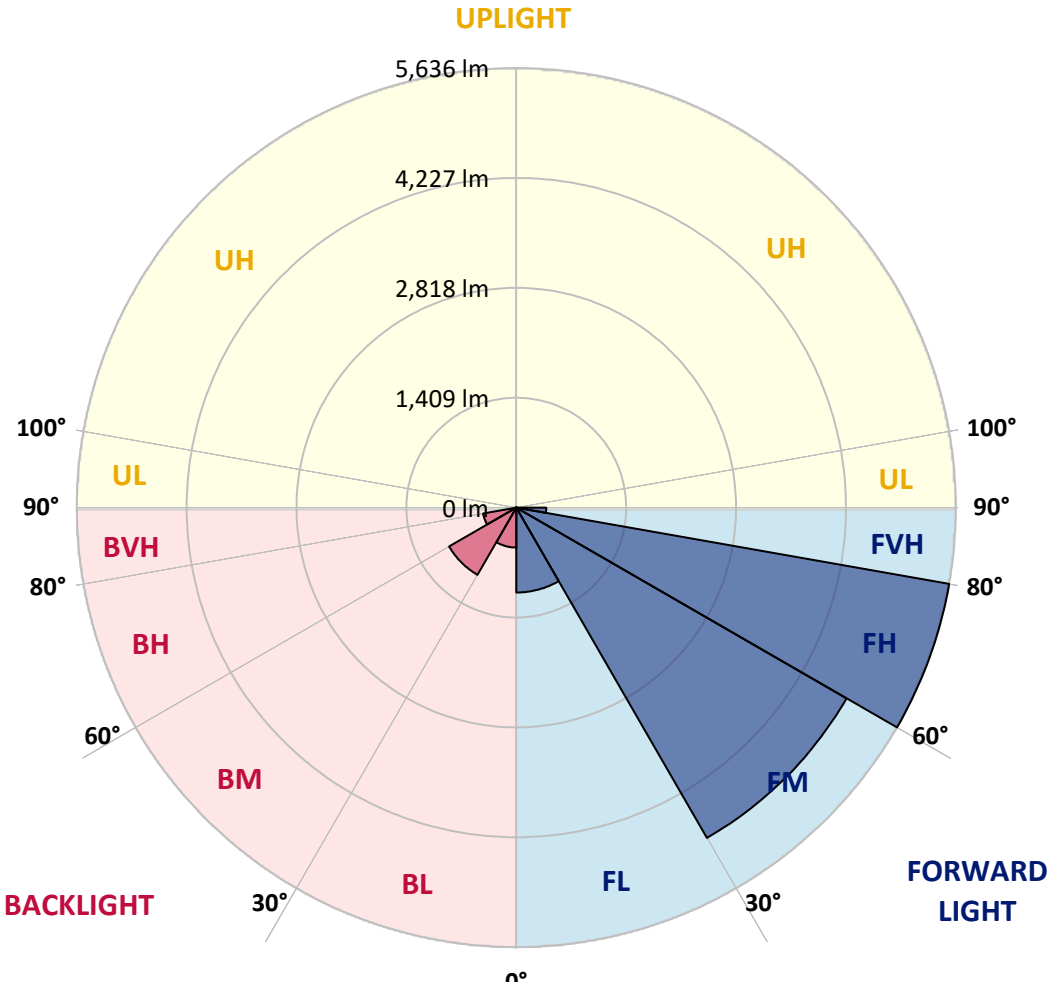
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1088.3	7.8			
FM	(30°-60°)	4890.4	35.0			
FH	(60°-80°)	5636.4	40.4			G3/7500
FVH	(80°-90°)	384.0	2.8			G3/500
BL	(0°-30°)	512.2	3.7	B2/1000		
BM	(30°-60°)	995.0	7.1	B1/1000		
BH	(60°-80°)	431.5	3.1	B1/500		G1/500
BVH	(80°-90°)	15.3	0.1			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°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0
2.5°	2182.9	2145.4	2123.3	2068.5	2013.7	1969.5	1909.9	1870.5	1823.4	1778.2	1737.9
5°	2432.8	2372.3	2299.2	2199.3	2107.9	2014.7	1924.4	1835.0	1740.8	1654.3	1601.4
7.5°	2644.3	2556.8	2428.0	2295.4	2179.1	2066.6	1960.9	1842.7	1728.3	1592.7	1520.6
10°	2805.8	2694.3	2525.1	2351.1	2217.5	2104.1	2001.3	1901.3	1785.9	1622.5	1532.2
12.5°	2903.8	2784.6	2583.7	2380.0	2227.1	2100.3	2020.5	1976.3	1931.1	1768.6	1662.9
15°	2975.9	2847.1	2625.1	2400.2	2205.0	2049.3	1990.7	2034.9	2086.8	1983.0	1860.9
17.5°	3050.9	2915.4	2678.9	2408.8	2145.4	1950.3	1925.3	2039.7	2159.9	2155.0	2033.9
20°	3122.0	2987.5	2726.0	2403.0	2049.3	1830.2	1852.3	1998.4	2137.7	2196.4	2131.0
22.5°	3203.7	3061.5	2771.2	2380.9	1924.4	1717.7	1786.9	1933.0	2055.1	2124.3	2104.1
25°	3303.7	3154.7	2834.6	2348.3	1789.8	1624.5	1720.6	1857.1	1956.1	2004.1	2003.2
27.5°	3411.4	3266.2	2919.2	2330.9	1681.2	1558.1	1645.6	1766.7	1855.1	1888.8	1888.8
30°	3545.0	3396.0	3019.2	2311.7	1610.0	1519.7	1567.7	1661.9	1748.5	1782.1	1782.1
32.5°	3691.1	3540.2	3115.3	2265.6	1566.8	1490.8	1491.8	1551.4	1630.2	1670.6	1676.4
35°	3873.7	3713.2	3218.2	2164.7	1532.2	1457.2	1417.8	1446.6	1512.0	1560.1	1572.5
37.5°	4134.2	3940.0	3344.1	2020.5	1481.2	1405.3	1339.9	1346.7	1396.6	1449.5	1468.7
40°	4493.7	4244.7	3492.1	1870.5	1408.2	1332.2	1254.4	1251.5	1288.0	1339.9	1361.1
42.5°	4980.1	4647.5	3669.9	1727.3	1338.0	1243.8	1164.0	1159.2	1188.1	1233.2	1255.3
45°	5622.2	5162.7	3888.1	1604.3	1283.2	1157.3	1078.5	1076.6	1100.6	1140.0	1163.1
47.5°	6444.0	5878.8	4106.3	1520.6	1254.4	1089.1	1008.3	1012.2	1033.3	1068.9	1085.2
50°	7508.1	6812.1	4172.6	1478.4	1254.4	1052.5	945.8	965.1	982.4	1009.3	1018.9
52.5°	8783.6	7708.0	3953.5	1439.9	1262.1	1057.3	893.0	934.3	946.8	969.9	973.7
55°	9965.9	8147.3	3398.9	1387.0	1264.0	1087.1	847.8	909.3	932.4	941.0	940.1
57.5°	10652.2	7996.4	2748.1	1297.6	1256.3	1107.3	819.0	878.6	922.8	928.5	919.9
60°	10521.5	7466.7	2023.4	1229.4	1199.6	1099.6	810.3	831.5	901.6	910.3	898.7
62.5°	9514.1	6578.6	1404.3	1176.5	1074.6	1066.0	807.4	757.4	855.5	876.6	860.3
65°	*7647.4*	*5179.0*	*992.0*	*1013.1*	*942.0*	*992.9*	*792.0*	*680.5*	*799.7*	*828.6*	*803.6*
67.5°	5548.1	3504.6	716.1	820.9	853.6	874.7	757.4	624.8	736.3	774.7	742.1
70°	3560.3	1892.6	502.7	542.1	719.0	743.0	697.8	574.8	671.9	716.1	680.5
72.5°	2530.9	1117.9	361.4	379.7	577.7	619.0	614.2	519.1	596.9	650.7	608.4
75°	1746.5	616.1	244.1	271.1	419.1	502.7	473.9	446.0	505.6	560.4	519.1
77.5°	1094.8	275.9	146.1	188.4	274.9	395.1	324.9	345.1	394.1	445.0	401.8
80°	609.4	106.7	81.7	125.0	149.9	287.4	179.7	222.0	290.3	326.8	292.2
82.5°	132.6	13.5	36.5	53.8	58.6	167.3	95.2	128.8	182.6	179.7	155.7
85°	0.0	0.0	6.7	7.7	3.8	72.1	34.6	42.3	59.6	55.8	42.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	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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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0
2.5°	1730.2	1683.1	1648.5	1631.2	1616.8	1630.2	1637.9	1637.9	1670.6	1689.8	1697.5
5°	1567.7	1483.2	1418.8	1375.5	1349.5	1358.2	1367.8	1378.4	1419.7	1447.6	1465.9
7.5°	1455.3	1325.5	1227.5	1166.9	1135.2	1140.0	1146.7	1155.4	1195.8	1223.6	1247.7
10°	1434.1	1247.7	1109.2	1029.5	991.0	984.3	980.4	977.6	1001.6	1022.7	1042.0
12.5°	1520.6	1251.5	1058.3	961.2	914.1	893.9	870.9	852.6	856.4	869.9	893.9
15°	1675.4	1300.5	1042.0	925.7	867.0	833.4	806.5	784.4	779.5	784.4	788.2
17.5°	1852.3	1366.8	1040.0	894.9	821.8	787.2	765.1	744.9	738.2	739.2	744.0
20°	1969.5	1419.7	1034.3	860.3	778.6	747.8	728.6	708.4	701.7	703.6	704.6
22.5°	1981.1	1447.6	1025.6	821.8	735.3	709.4	690.2	671.9	670.9	670.9	676.7
25°	1918.6	1447.6	1007.4	787.2	694.0	670.9	653.6	631.5	635.4	637.3	645.0
27.5°	1821.5	1413.0	972.8	759.4	658.4	634.4	617.1	596.9	601.7	604.6	613.3
30°	1725.4	1368.8	931.4	727.6	624.8	596.9	584.4	567.1	569.0	572.9	582.5
32.5°	1636.0	1321.7	882.4	701.7	591.1	563.3	553.7	534.4	537.3	541.2	551.7
35°	1547.6	1269.8	824.7	670.9	560.4	532.5	524.8	502.7	504.6	510.4	521.9
37.5°	1452.4	1215.0	777.6	640.2	530.6	501.8	494.1	471.0	472.9	479.6	493.1
40°	1352.4	1161.1	731.5	607.5	498.9	470.0	463.3	438.3	440.2	447.9	462.3
42.5°	1251.5	1102.5	695.9	565.2	466.2	435.4	428.7	405.6	408.5	417.2	431.6
45°	1158.3	1032.3	672.9	518.1	435.4	400.8	394.1	373.0	378.7	388.3	402.7
47.5°	1078.5	960.3	663.2	478.7	402.7	365.3	359.5	342.2	351.8	362.4	373.9
50°	1010.2	891.0	650.7	438.3	372.0	334.5	328.7	317.2	329.7	340.3	350.8
52.5°	961.2	812.2	623.8	401.8	345.1	308.6	306.6	300.9	312.4	322.0	331.6
55°	918.9	730.5	580.6	370.1	321.0	286.4	288.4	285.5	295.1	302.8	311.4
57.5°	880.5	659.4	525.8	345.1	295.1	267.2	273.0	269.1	273.9	278.8	289.3
60°	834.3	587.3	460.4	317.2	264.3	248.0	254.7	244.1	243.2	245.1	248.0
62.5°	766.1	490.2	392.2	282.6	237.4	226.8	229.7	209.5	194.2	194.2	197.0
65°	*670.9*	*394.1*	*328.7*	*244.1*	*206.7*	*198.0*	*196.1*	*167.3*	*146.1*	*144.2*	*152.8*
67.5°	560.4	323.9	273.0	205.7	172.1	166.3	168.2	147.1	125.9	124.0	133.6
70°	456.6	268.2	220.1	164.4	132.6	138.4	147.1	125.9	105.7	102.9	111.5
72.5°	371.0	213.4	172.1	125.9	98.0	114.4	125.0	102.9	83.6	81.7	89.4
75°	286.4	156.7	123.0	85.5	71.1	88.4	98.0	75.0	59.6	56.7	63.4
77.5°	191.3	97.1	69.2	53.8	42.3	60.6	65.4	39.4	34.6	33.6	38.4
80°	116.3	45.2	29.8	26.0	14.4	22.1	26.0	16.3	18.3	19.2	23.1
82.5°	58.6	12.5	4.8	1.0	0.0	0.0	7.7	3.8	7.7	9.6	14.4
85°	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	4.8	8.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0
2.5°	1751.3	1791.7	1830.2	1891.7	1955.1	2017.6	2081.0	2142.6	2164.7	2181.0	2217.5
5°	1549.5	1625.4	1713.8	1835.9	1966.6	2101.2	2237.7	2362.7	2419.4	2457.8	2544.3
7.5°	1340.9	1439.9	1566.8	1750.4	1955.1	2169.5	2383.8	2580.9	2672.2	2746.2	2877.9
10°	1134.2	1241.9	1402.4	1612.0	1888.8	2196.4	2492.4	2763.5	2881.7	2975.0	3153.7
12.5°	952.6	1053.5	1221.7	1453.4	1785.0	2175.2	2554.9	2880.8	3020.1	3124.9	3321.0
15°	824.7	895.9	1044.8	1294.8	1661.9	2107.0	2558.8	2936.5	3089.3	3198.9	3369.1
17.5°	753.6	777.6	874.7	1133.3	1525.4	2017.6	2523.2	2955.7	3119.1	3221.0	3339.3
20°	715.1	719.0	745.9	923.7	1350.5	1934.0	2489.5	2975.0	3147.0	3232.6	3268.1
22.5°	684.4	684.4	691.1	755.5	1124.6	1834.0	2479.0	3008.6	3185.5	3238.3	3165.3
25°	656.5	656.5	658.4	675.7	891.0	1681.2	2472.2	3060.5	3238.3	3252.8	3051.9
27.5°	627.7	628.6	628.6	638.2	718.0	1473.5	2443.4	3127.8	3301.8	3272.0	2943.2
30°	598.8	600.8	600.8	607.5	635.4	1230.4	2386.7	3208.5	3384.4	3297.0	2835.6
32.5°	570.0	571.9	571.9	577.7	597.9	982.4	2315.6	3282.6	3468.1	3307.5	2735.6
35°	540.2	543.1	541.2	548.9	570.0	781.5	2225.2	3356.6	3558.4	3341.2	2686.6
37.5°	510.4	512.3	511.4	519.1	543.1	674.8	2120.4	3412.3	3681.5	3416.2	2745.2
40°	480.6	479.6	479.6	488.3	514.3	644.0	1988.8	3500.7	3858.3	3547.8	3000.9
42.5°	449.8	449.8	447.9	457.5	489.3	620.9	1862.8	3659.3	4115.9	3757.4	3454.6
45°	422.0	421.0	417.2	425.8	465.2	580.6	1818.6	3955.4	4496.6	4096.7	4003.5
47.5°	395.1	394.1	384.5	392.2	436.4	544.0	1983.9	4439.9	5024.3	4595.6	4517.7
50°	371.0	372.0	353.7	360.5	407.6	516.2	2342.5	5068.5	5725.0	5267.5	5005.1
52.5°	348.9	348.9	324.9	328.7	372.0	491.2	2683.7	5750.0	6649.7	6204.6	5573.1
55°	326.8	324.9	298.0	299.9	336.4	455.6	2734.7	6415.2	7910.8	7614.8	6349.8
57.5°	301.8	298.0	273.0	273.0	303.7	429.7	2370.4	6926.5	9475.7	9687.1	7469.6
60°	271.1	268.2	251.8	247.0	277.8	452.7	1672.5	6986.1	10484.9	12442.9	9614.1
62.5°	231.7	235.5	226.8	220.1	252.8	470.0	991.0	6506.5	10240.8	13319.6	12182.5
65°	*182.6*	*198.0*	*196.1*	*191.3*	*277.8*	*396.0*	*585.4*	*5585.6*	*9492.0*	*12612.1*	*11658.6*
67.5°	155.7	166.3	163.4	163.4	291.2	300.9	368.1	4363.9	8461.6	11773.0	10413.8
70°	132.6	143.2	132.6	132.6	220.1	182.6	254.7	3047.1	7349.5	10844.4	9596.8
72.5°	109.6	120.2	108.6	100.9	175.9	136.5	186.5	1904.2	6294.0	9877.5	9037.4
75°	83.6	96.1	87.5	77.9	116.3	101.9	141.3	1106.4	5214.6	8451.0	8240.5
77.5°	52.9	69.2	65.4	54.8	85.5	74.0	101.9	658.4	4023.6	6603.6	7088.0
80°	32.7	35.6	36.5	34.6	49.0	50.0	69.2	374.9	2753.9	4602.3	5537.6
82.5°	21.1	21.1	16.3	18.3	24.0	28.8	39.4	141.3	1618.7	2801.9	3854.5
85°	15.4	13.5	8.7	8.7	11.5	14.4	15.4	43.3	656.5	1106.4	1507.2
87.5°	7.7	6.7	2.9	3.8	5.8	4.8	3.8	1.9	165.3	353.7	248.0
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: P1203864
CATALOG NUMBER: GWC-SB2D-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1932.0	1932.0	*1932.0*	1932.0	1932.0	1932.0	1932.0	1932.0
2.5°	2236.7	2266.5	*2268.5*	2268.5	2242.5	2241.6	2188.7	2182.9
5°	2633.7	2653.0	*2657.8*	2648.1	2596.2	2557.8	2454.9	2432.8
7.5°	2997.1	3035.5	*3035.5*	3012.5	2927.9	2849.0	2700.1	2644.3
10°	3287.4	3331.6	*3322.0*	3274.9	3168.2	3059.6	2878.8	2805.8
12.5°	3428.7	3473.8	*3448.8*	3395.0	3291.2	3176.8	2986.5	2903.8
15°	3425.8	3413.3	*3387.3*	3380.6	3330.6	3244.1	3066.3	2975.9
17.5°	3303.7	3198.0	*3177.8*	3245.1	3308.5	3287.4	3135.5	3050.9
20°	3110.5	2925.9	*2907.7*	3036.5	3217.2	3309.5	3199.9	3122.0
22.5°	2906.7	2707.7	*2665.5*	2807.7	3079.7	3316.2	3281.6	3203.7
25°	2713.5	2513.6	*2471.3*	2603.9	2926.9	3304.7	3370.0	3303.7
27.5°	2552.0	2358.8	*2319.4*	2452.1	2779.8	3272.0	3458.5	3411.4
30°	2427.1	2248.3	*2219.4*	2347.3	2653.0	3231.6	3570.9	3545.0
32.5°	2354.0	2223.3	*2233.9*	2338.6	2584.7	3187.4	3678.6	3691.1
35°	2426.1	2431.9	*2524.2*	2567.4	2648.1	3180.7	3824.7	3873.7
37.5°	2784.6	2984.6	*3175.9*	3140.3	2958.6	3258.5	4042.9	4134.2
40°	3395.0	3805.5	*4115.9*	3980.4	3522.9	3496.9	4357.2	4493.7
42.5°	4140.9	4836.8	*5348.2*	4984.9	4250.5	3914.1	4806.1	4980.1
45°	4928.2	6108.5	*6914.0*	6158.5	5026.2	4498.5	5485.7	5622.2
47.5°	5757.7	7654.2	*8696.1*	7460.0	5745.2	5163.7	6412.3	6444.0
50°	6665.1	9348.8	*10512.8*	8760.5	6439.2	5925.9	7544.6	7508.1
52.5°	7529.2	11091.5	*12291.1*	10066.8	7048.6	6871.7	8858.6	8783.6
55°	8353.9	12833.2	*14079.9*	11322.2	7623.4	8121.3	10419.6	9965.9
57.5°	9310.3	14399.0	*15923.5*	12583.3	8427.0	9743.8	12165.1	10652.2
60°	10724.3	16178.2	*18008.4*	14311.5	9955.3	11449.0	12790.9	10521.5
62.5°	12529.4	17814.2	*19524.2*	16005.2	11490.4	11770.1	11869.1	9514.1
65°	*12880.3*	*18228.5*	*19609.8*	*16457.9*	*11292.4*	*9984.1*	*9690.0*	*7647.4*
67.5°	11949.8	17479.7	*18414.0*	15615.0	9989.0	7715.7	7271.6	5548.1
70°	10906.0	16052.3	*16330.1*	14181.8	8785.5	5675.0	4910.9	3560.3
72.5°	9836.1	14148.1	*13573.3*	12316.1	7721.4	4132.3	3542.1	2530.9
75°	8565.4	11644.2	*10691.6*	10233.1	6393.0	3243.1	2562.6	1746.5
77.5°	6859.2	8196.3	*7941.6*	7932.0	4804.2	2369.4	1710.0	1094.8
80°	4838.8	5319.4	*5189.6*	5974.0	3223.0	1718.7	1029.5	609.4
82.5°	2342.5	2941.3	*3019.2*	3557.5	1567.7	1011.2	237.4	132.6
85°	917.0	1418.8	*1196.7*	1350.5	440.2	281.6	5.8	0.0
87.5°	102.9	164.4	*150.9*	119.2	53.8	11.5	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

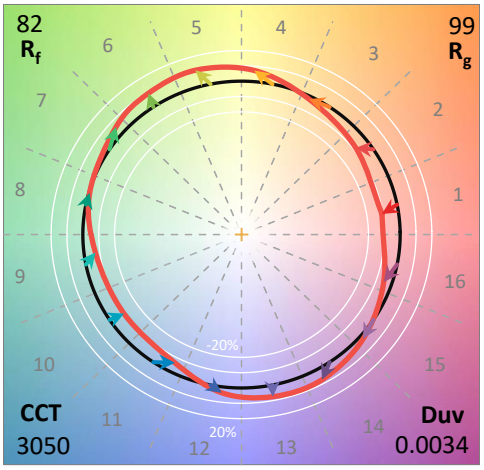
Test Information

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

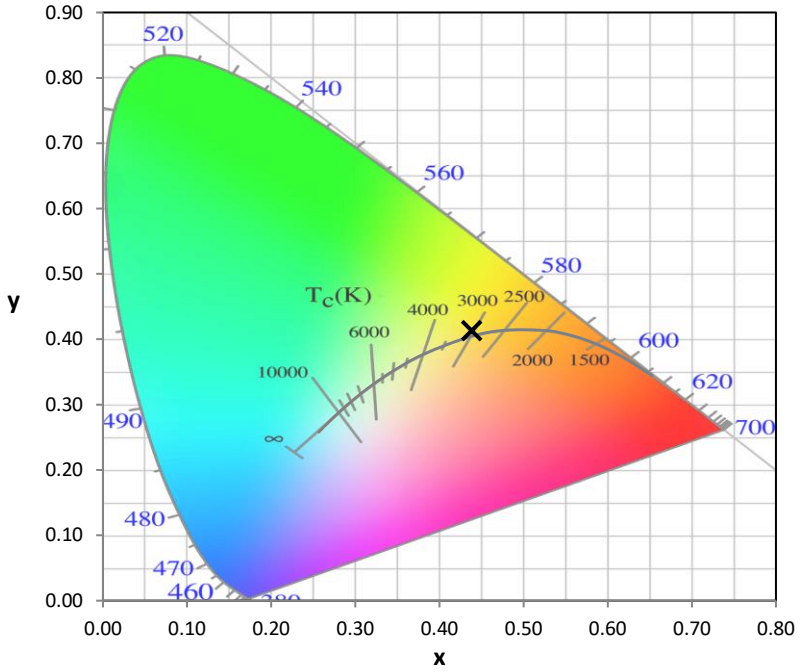
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

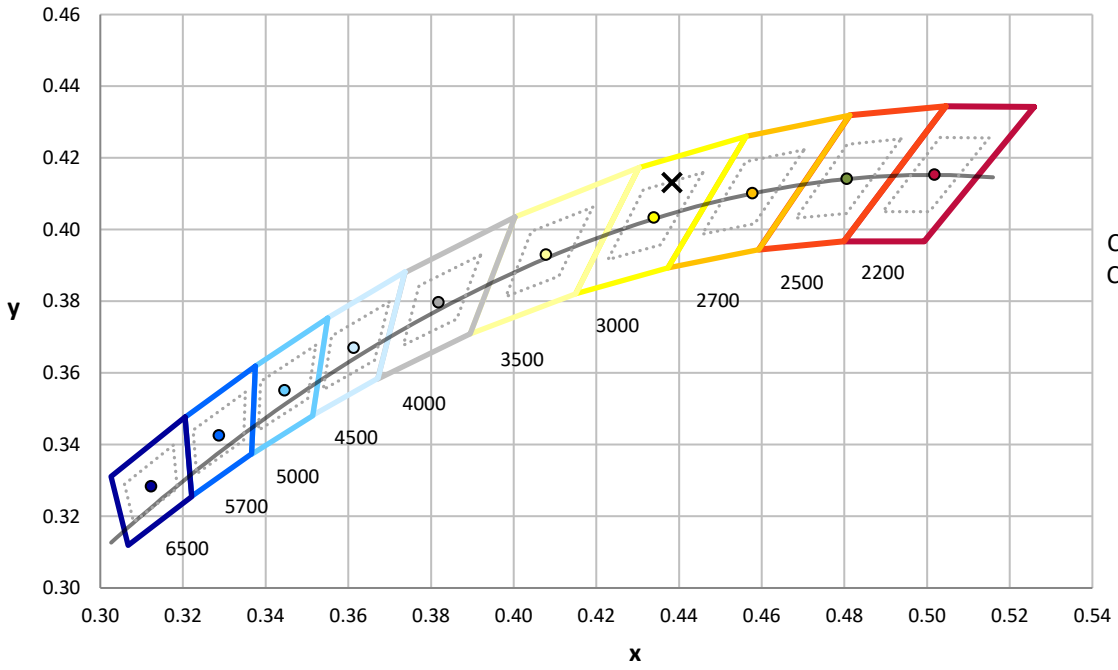
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

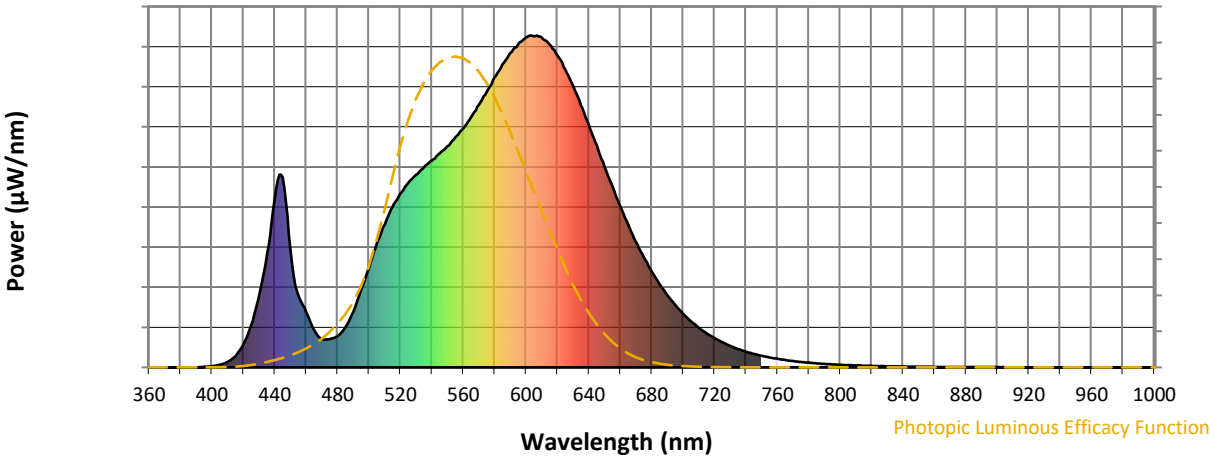


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

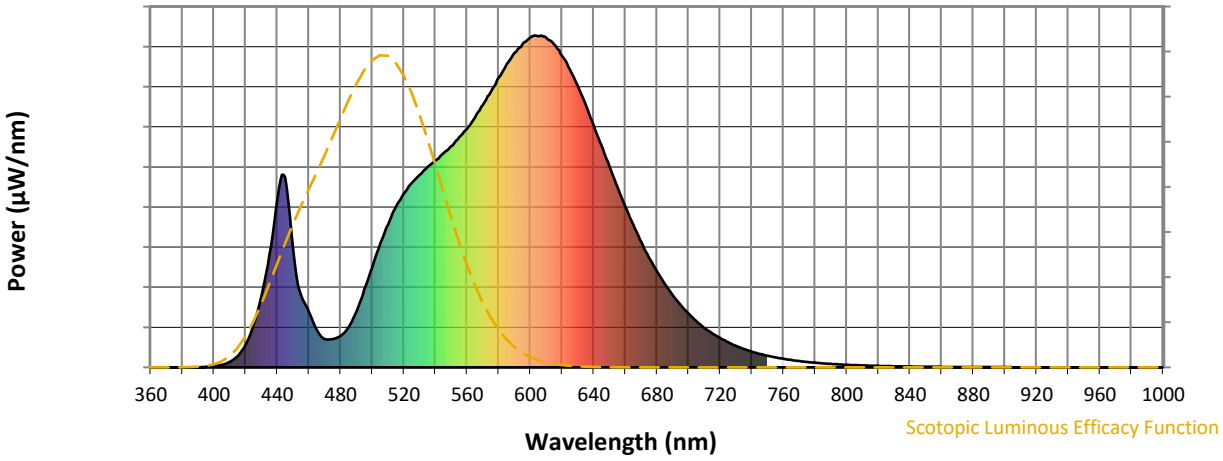


Photopic Lumens: NR

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

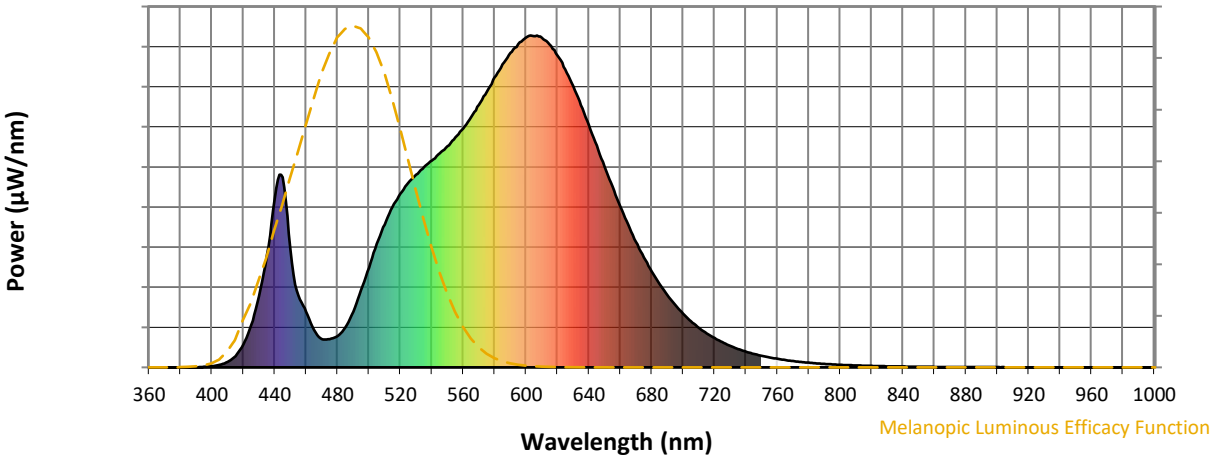


Scotopic Lumens: NR **S/P: 1.27**

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			

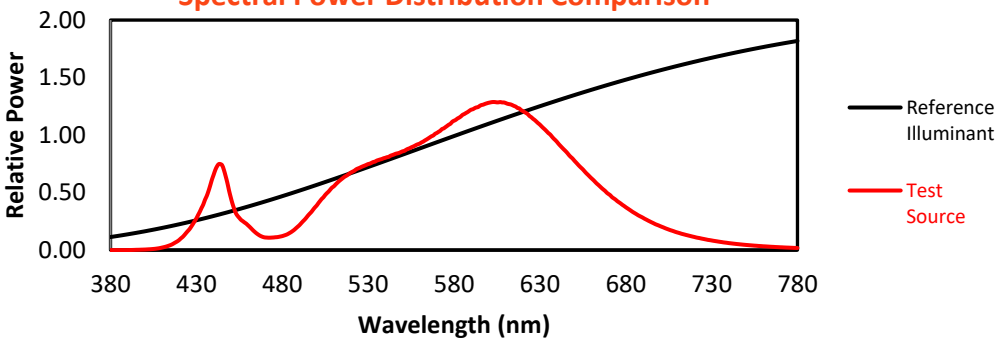
REPORT NUMBER: SP1-2408-195-9

TM-30-18

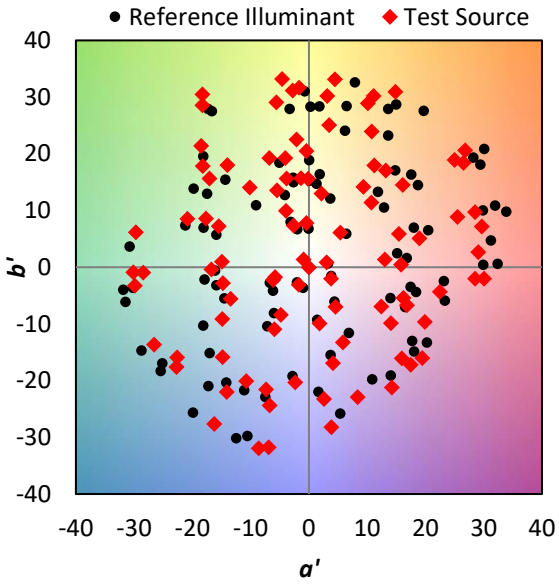
Summary

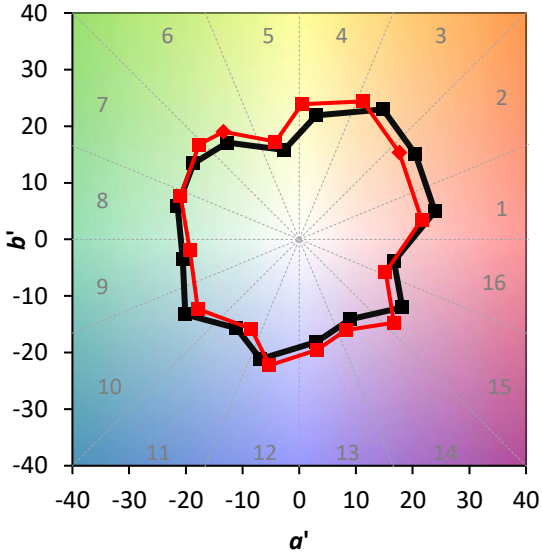
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R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

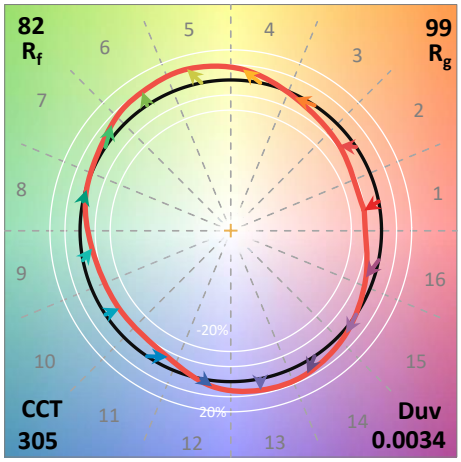
Spectral Power Distribution Comparison

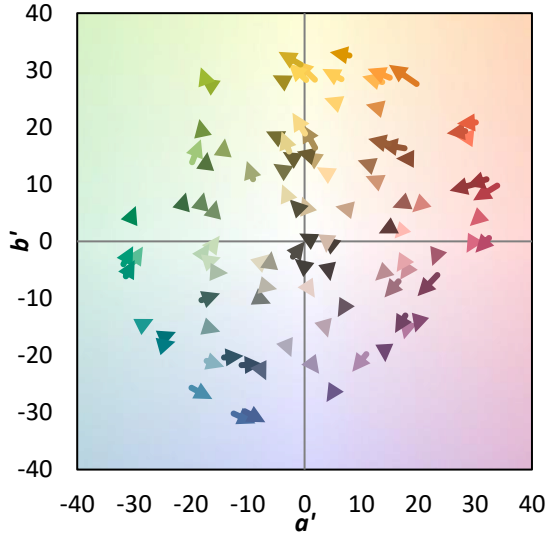


Color Vector Graphics







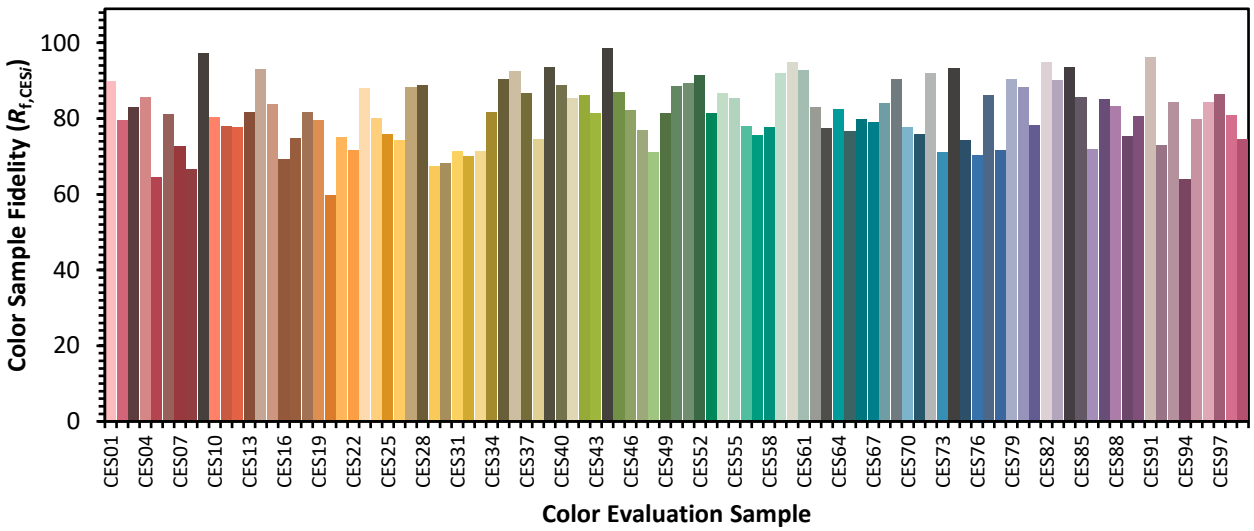


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

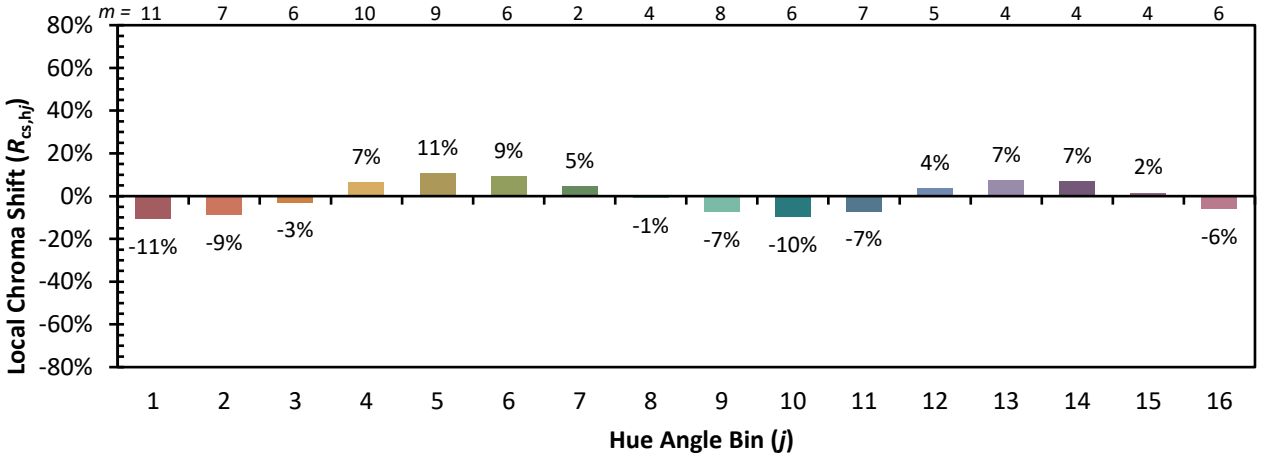
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CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57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

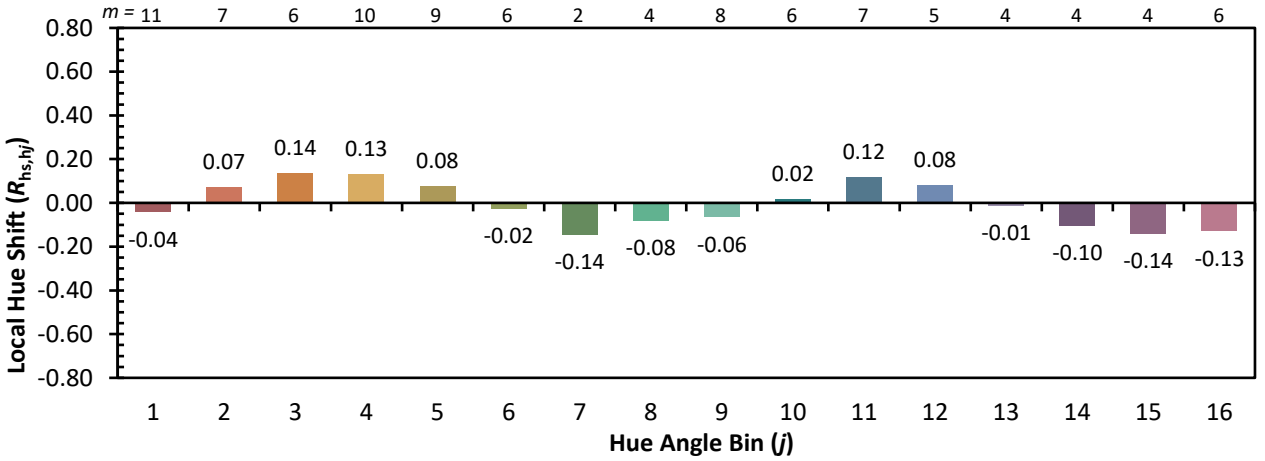


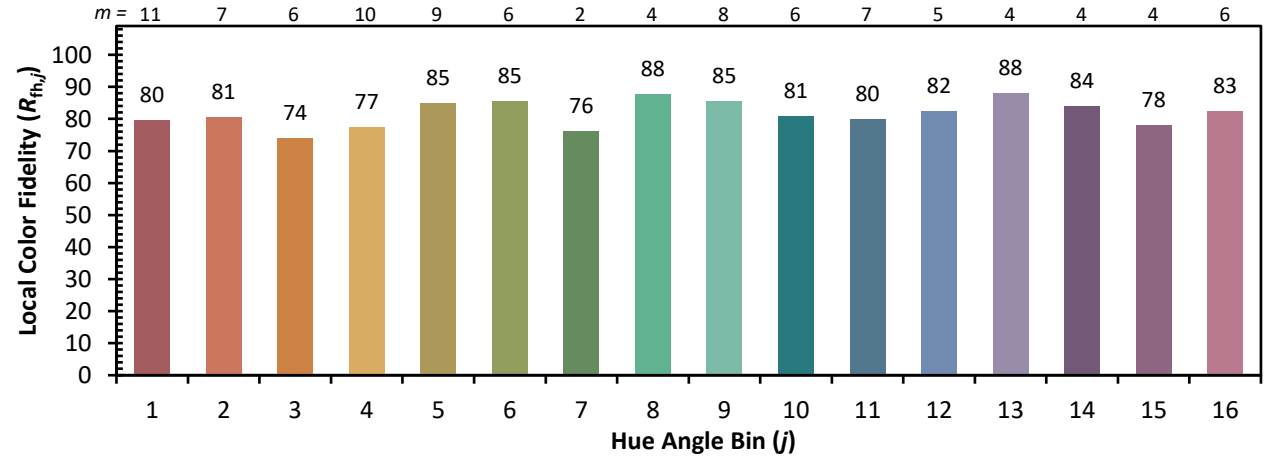
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Color Rendition by Hue-Angle Bin



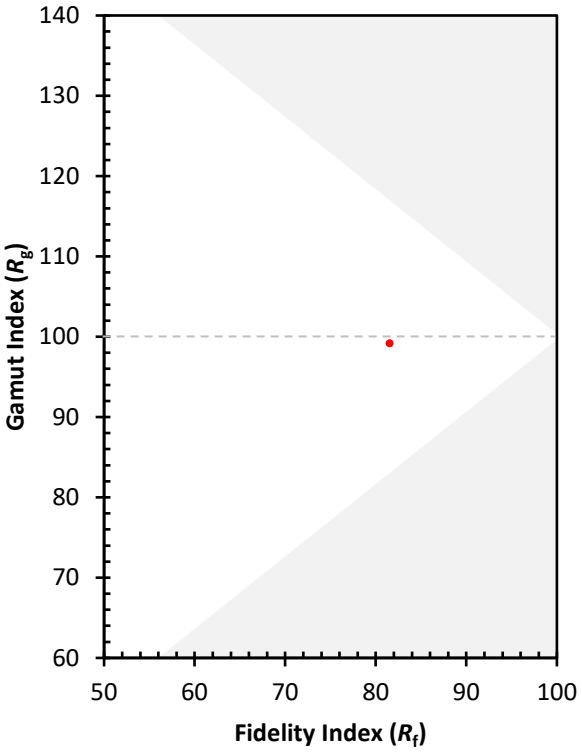


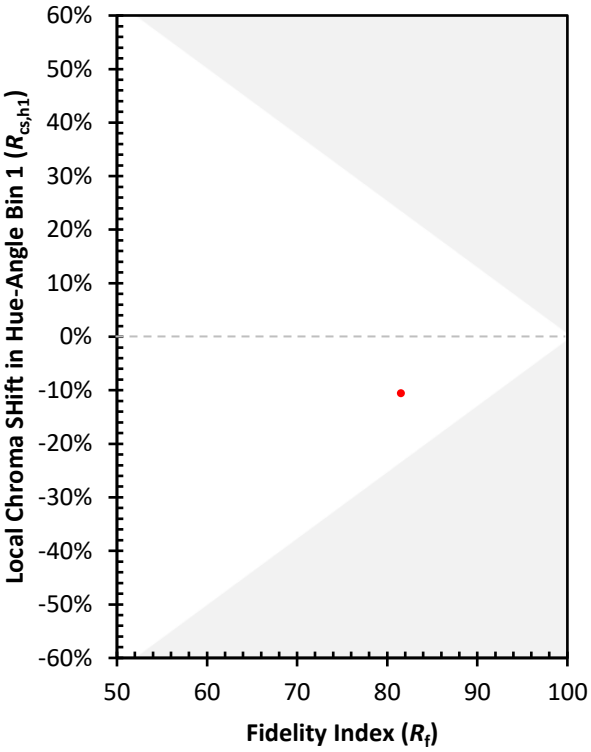


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Measure Comparisons





(END OF REPORT)