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: P1501333

Luminaire Tested: GSS-SB3A-740-U-T2LG

Issue Date: 07/20/2026

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501333
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB3A-740-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 3SQUARE 85W 70CRI 4000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(78) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	13207.5 lumens
Efficiency:	N/A
Efficacy:	155.4 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

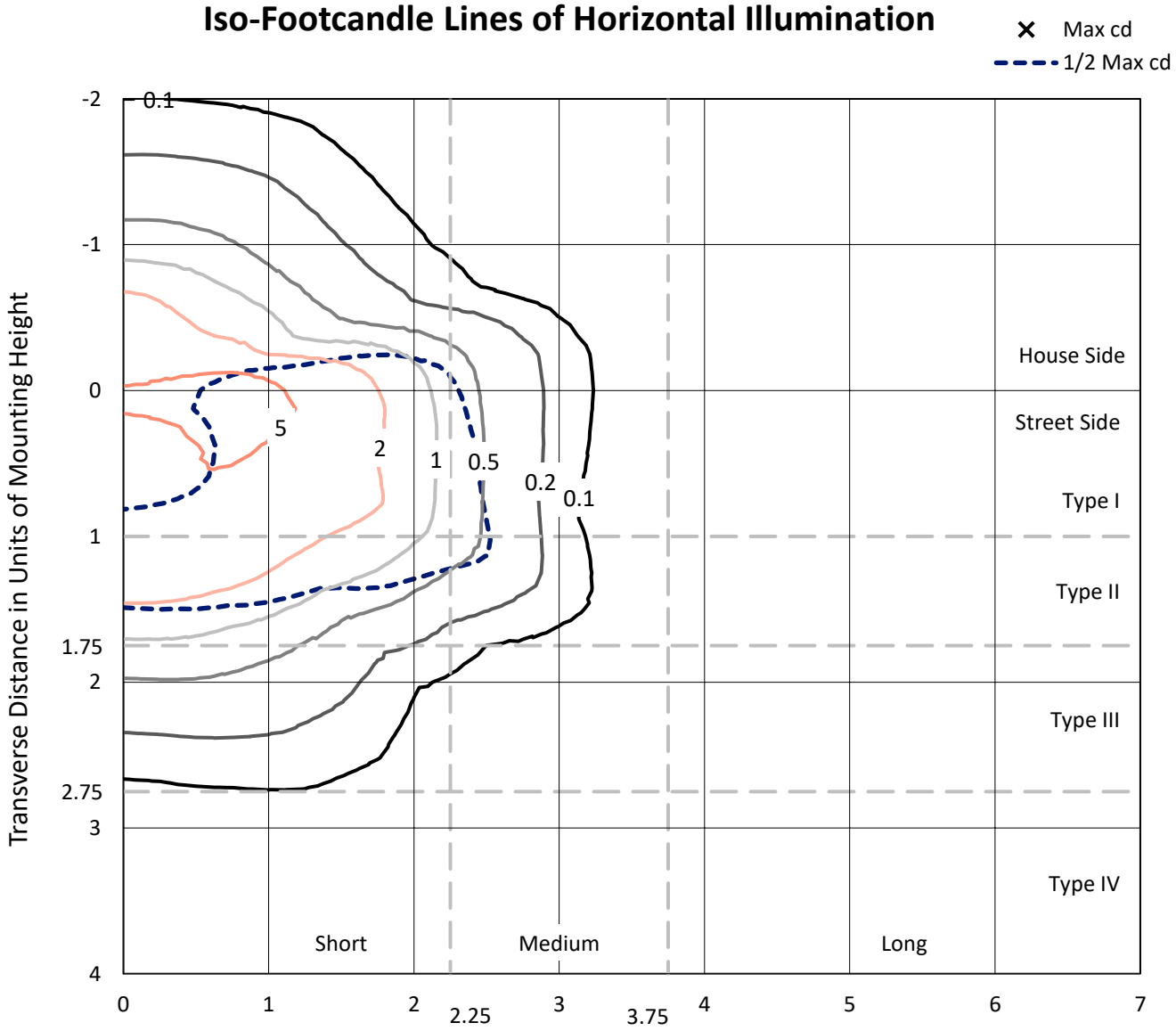
Input Watts (W):	85
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	11.0%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



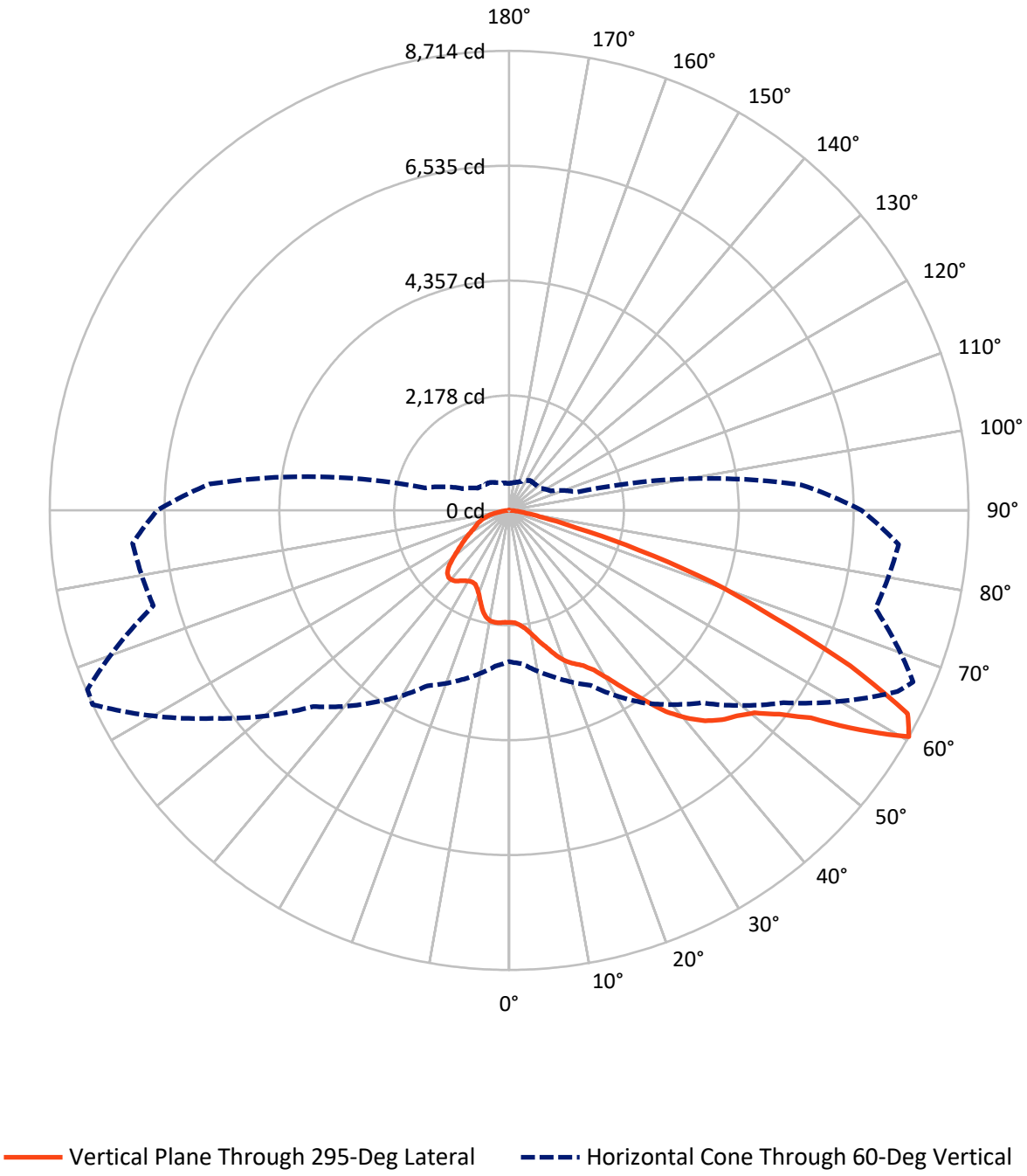
Based on 20 foot mounting height. Maximum calculated value = 8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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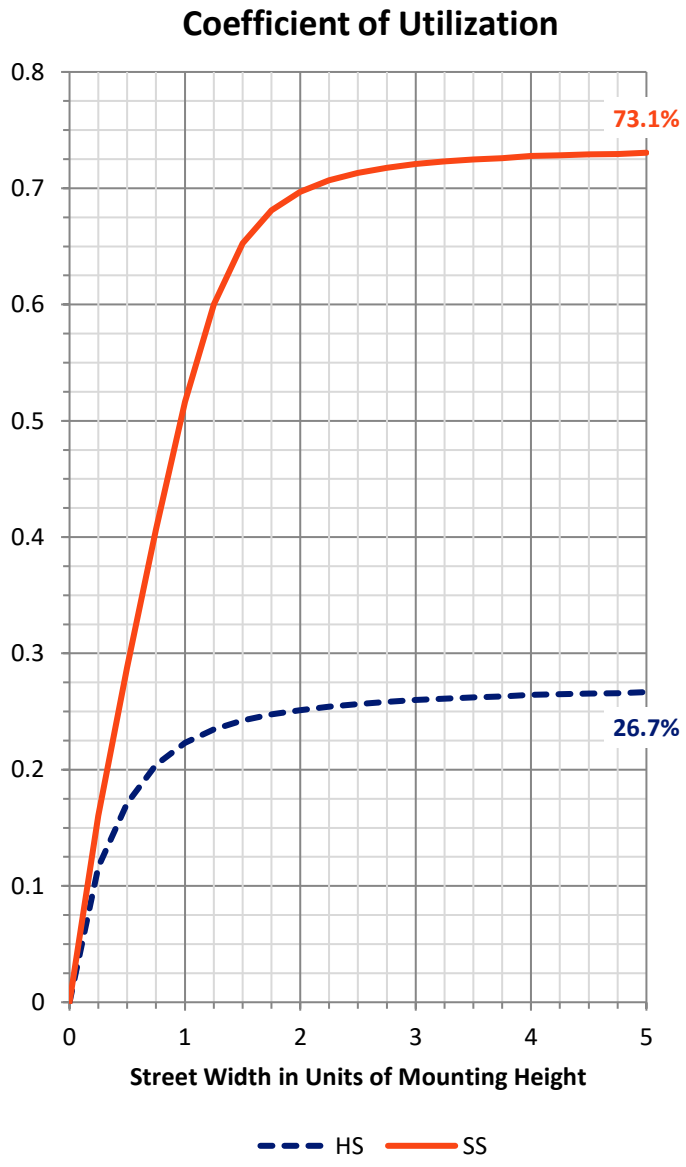
REPORT NUMBER: P1501333
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3551.7	0.0	3551.7
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	9655.9	0.0	9655.9
	% Fixture	73.1	0.0	73.1
Total	Lumens	13207.5	0.0	13207.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.8	1.5
10°-20°	574.4	4.3
20°-30°	1088.0	8.2
30°-40°	1918.0	14.5
40°-50°	2836.5	21.5
50°-60°	3330.8	25.2
60°-70°	2413.3	18.3
70°-80°	744.3	5.6
80°-90°	102.4	0.8
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°	13207.5	100.0
0°-180°	13207.5	100.0



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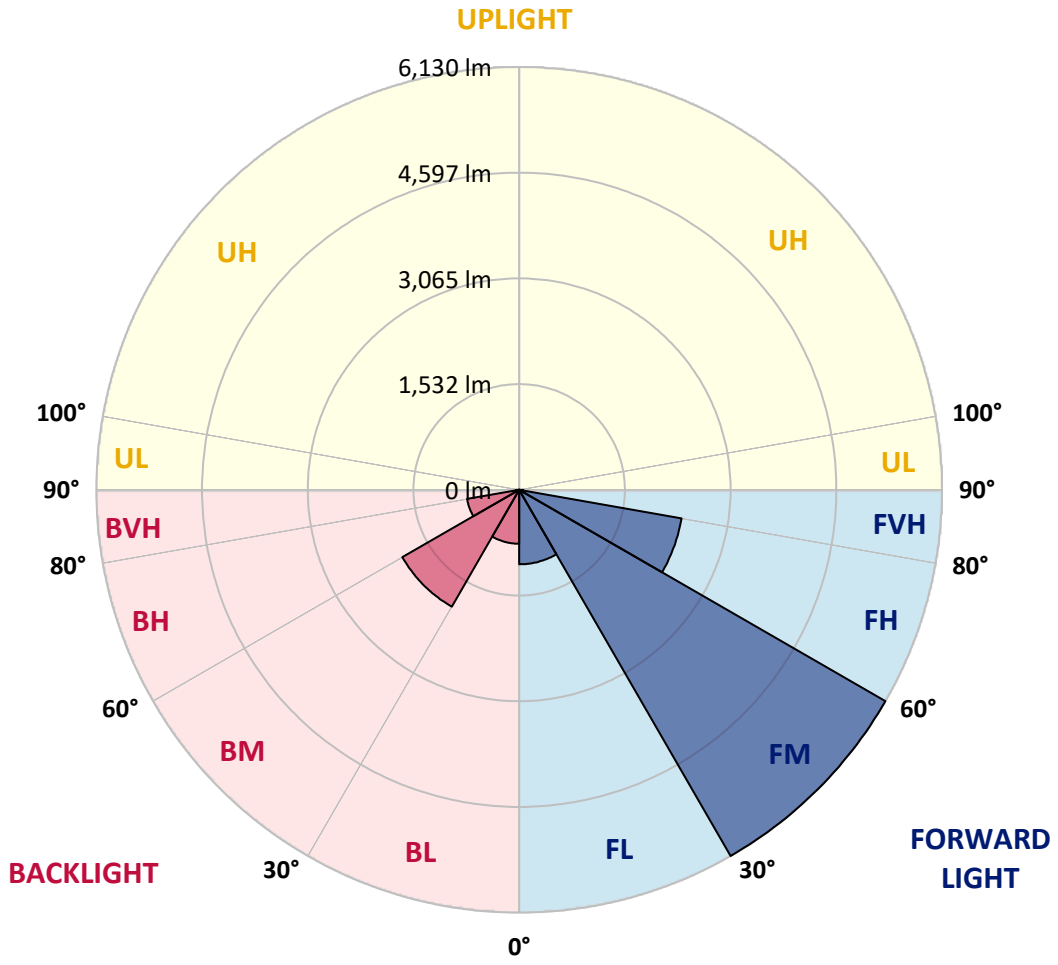
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1079.9	8.2			
FM	(30°-60°)	6129.7	46.4			
FH	(60°-80°)	2391.0	18.1			G2/5000
FVH	(80°-90°)	55.3	0.4			G1/100
BL	(0°-30°)	782.2	5.9	B2/1000		
BM	(30°-60°)	1955.7	14.8	B2/2500		
BH	(60°-80°)	766.6	5.8	B2/1000		G2/1000
BVH	(80°-90°)	47.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2125.0	2125.0	2125.0	2125.0	2125.0	2125.0	2125.0	2125.0	2125.0	2125.0	2125.0
2.5°	2167.2	2173.2	2164.2	2170.2	2170.2	2161.2	2158.1	2146.1	2152.1	2149.1	2146.1
5°	2218.3	2221.4	2215.3	2224.4	2224.4	2227.4	2224.4	2209.3	2209.3	2209.3	2203.3
7.5°	2203.3	2203.3	2206.3	2236.4	2266.5	2305.6	2305.6	2299.6	2305.6	2302.6	2275.5
10°	2076.9	2088.9	2116.0	2191.3	2263.5	2347.8	2405.0	2423.0	2423.0	2426.0	2380.9
12.5°	1851.1	1860.2	1923.4	2037.7	2188.2	2341.7	2480.2	2570.5	2579.5	2594.6	2534.4
15°	1649.5	1655.5	1700.6	1818.0	1989.6	2260.5	2522.3	2709.0	2739.1	2802.3	2712.0
17.5°	1667.5	1664.5	1676.5	1721.7	1845.1	2128.0	2513.3	2871.5	2925.7	3037.1	2958.8
20°	1775.9	1775.9	1784.9	1793.9	1839.1	2031.7	2447.1	3003.9	3109.3	3326.0	3235.7
22.5°	1947.4	1947.4	1944.4	1959.5	1959.5	2073.9	2450.1	3103.3	3259.8	3648.1	3560.8
25°	2185.2	2173.2	2173.2	2179.2	2152.1	2233.4	2525.4	3205.6	3410.3	4030.3	3955.1
27.5°	2453.1	2462.1	2456.1	2435.1	2398.9	2462.1	2706.0	3365.1	3578.8	4433.7	4403.6
30°	2745.1	2748.1	2754.1	2742.1	2712.0	2757.1	2988.9	3605.9	3801.6	4855.1	4921.3
32.5°	3031.0	3073.2	3058.1	3028.0	3040.1	3121.3	3338.0	3931.0	4132.7	5246.4	5481.1
35°	3395.2	3410.3	3470.5	3359.1	3362.1	3500.6	3783.5	4358.4	4554.1	5652.7	6041.0
37.5°	3925.0	3952.1	3925.0	3750.4	3723.3	3916.0	4217.0	4779.8	4921.3	5959.7	6561.7
40°	4445.7	4478.8	4524.0	4319.3	4147.7	4307.3	4626.3	5101.9	5249.4	6128.3	6907.9
42.5°	4876.1	4930.3	4882.2	4822.0	4665.4	4695.5	4912.3	5351.7	5499.2	6342.0	7257.0
45°	5240.3	5249.4	5270.4	5228.3	5150.0	5123.0	5156.1	5571.4	5734.0	6438.3	7428.6
47.5°	5390.8	5430.0	5448.0	5520.3	5601.5	5547.4	5363.8	5673.8	5821.3	6432.3	7482.8
50°	5309.6	5348.7	5445.0	5616.6	5812.2	5908.6	5607.6	5815.2	5980.8	6540.6	7594.1
52.5°	5095.9	5138.0	5294.5	5490.2	5818.3	6038.0	5950.7	6110.2	6269.7	6733.3	7780.7
55°	4578.2	4641.4	4861.1	5186.2	5637.7	5968.8	6311.9	6543.7	6718.2	6965.1	7973.4
57.5°	3825.7	3891.9	4138.7	4626.3	5303.6	5682.8	6417.2	7356.3	7434.6	7242.0	7991.4
60°	*2865.5*	*2919.7*	*3268.8*	*3660.1*	*4454.7*	*5159.1*	*6357.0*	*8126.9*	*8325.6*	*7193.8*	*7416.5*
62.5°	2269.5	2335.7	2645.8	2826.4	3395.2	4262.1	6146.3	8340.6	8512.2	6796.5	6615.9
65°	1772.9	1818.0	2107.0	2365.8	2504.3	2910.6	5267.4	7296.1	7449.7	6149.4	5460.1
67.5°	1170.9	1240.1	1583.2	1938.4	2010.7	1851.1	3624.0	5613.6	5685.8	4888.2	4105.6
70°	839.8	872.9	1128.7	1508.0	1616.3	1240.1	1974.5	4250.1	4271.1	3280.9	2766.2
72.5°	571.9	577.9	767.5	1155.8	1288.3	900.0	1086.6	2799.3	2727.0	1619.4	1583.2
75°	388.3	394.3	490.6	770.6	912.0	626.1	707.3	1526.1	1465.9	894.0	960.2
77.5°	261.9	267.9	337.1	517.7	608.0	433.4	517.7	806.7	791.6	593.0	514.7
80°	198.7	207.7	249.8	331.1	424.4	252.8	295.0	382.3	388.3	316.0	261.9
82.5°	111.4	123.4	150.5	168.6	273.9	141.5	141.5	228.8	219.7	195.6	141.5
85°	48.2	51.2	60.2	63.2	111.4	60.2	51.2	99.3	102.3	96.3	45.1
87.5°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	12.0	12.0	12.0	12.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2125.0	2125.0	2125.0	2125.0	2125.0	2125.0	2125.0	2125.0	2125.0	2125.0	2125.0
2.5°	2131.1	2149.1	2131.1	2122.0	2122.0	2107.0	2101.0	2101.0	2079.9	2088.9	2082.9
5°	2179.2	2185.2	2164.2	2137.1	2101.0	2070.9	2028.7	1974.5	1941.4	1938.4	1941.4
7.5°	2254.5	2257.5	2200.3	2140.1	2049.8	1941.4	1812.0	1706.6	1613.3	1598.3	1616.3
10°	2359.8	2353.8	2269.5	2128.0	1938.4	1709.7	1511.0	1414.7	1360.5	1357.5	1354.5
12.5°	2501.3	2462.1	2332.7	2076.9	1745.8	1480.9	1378.6	1372.5	1387.6	1399.6	1402.6
15°	2663.8	2612.6	2383.9	1977.5	1550.1	1396.6	1402.6	1453.8	1471.9	1483.9	1483.9
17.5°	2865.5	2799.3	2441.1	1836.1	1450.8	1414.7	1456.8	1505.0	1535.1	1547.1	1544.1
20°	3133.4	2994.9	2486.2	1700.6	1423.7	1444.8	1480.9	1529.1	1559.2	1574.2	1574.2
22.5°	3401.3	3229.7	2495.3	1607.3	1423.7	1447.8	1480.9	1529.1	1562.2	1577.2	1574.2
25°	3765.5	3530.7	2498.3	1541.1	1426.7	1432.7	1462.8	1505.0	1553.1	1568.2	1574.2
27.5°	4153.7	3861.8	2513.3	1526.1	1414.7	1411.7	1432.7	1471.9	1520.0	1559.2	1562.2
30°	4635.3	4235.0	2519.3	1541.1	1417.7	1378.6	1393.6	1432.7	1483.9	1523.0	1535.1
32.5°	5107.9	4581.2	2507.3	1574.2	1423.7	1357.5	1360.5	1384.6	1438.8	1465.9	1486.9
35°	5607.6	4948.4	2486.2	1619.4	1426.7	1348.5	1321.4	1333.4	1369.5	1372.5	1381.6
37.5°	5998.9	5222.3	2423.0	1679.6	1432.7	1315.4	1261.2	1252.1	1237.1	1207.0	1213.0
40°	6320.9	5405.9	2317.7	1709.7	1417.7	1276.2	1185.9	1143.8	1086.6	1041.4	1050.5
42.5°	6552.7	5529.3	2191.3	1715.7	1393.6	1210.0	1098.6	1026.4	963.2	915.0	918.0
45°	6655.0	5517.3	2055.8	1670.5	1336.4	1128.7	1017.4	948.1	878.9	827.7	821.7
47.5°	6658.0	5399.9	1869.2	1562.2	1240.1	1035.4	942.1	866.9	809.7	773.6	770.6
50°	6682.1	5333.7	1694.6	1405.7	1113.7	936.1	875.9	800.6	767.5	716.4	701.3
52.5°	6832.6	5442.0	1574.2	1234.1	996.3	863.9	818.7	752.5	698.3	665.2	662.2
55°	7076.4	5628.6	1508.0	1104.7	884.9	794.6	764.5	707.3	659.2	626.1	617.0
57.5°	7106.5	5724.9	1429.7	984.3	794.6	740.5	728.4	665.2	596.0	571.9	562.9
60°	*6685.1*	*5562.4*	*1333.4*	*872.9*	*728.4*	*698.3*	*692.3*	*608.0*	*550.8*	*520.7*	*508.7*
62.5°	6110.2	5156.1	1185.9	770.6	677.2	656.2	632.1	565.9	493.6	460.5	451.5
65°	4993.5	4334.3	1008.3	701.3	626.1	602.0	596.0	505.7	457.5	439.5	436.4
67.5°	3783.5	3482.5	887.9	650.2	571.9	562.9	541.8	511.7	490.6	469.6	463.5
70°	2675.9	2513.3	755.5	583.9	517.7	502.7	590.0	556.8	481.6	454.5	451.5
72.5°	1622.4	1577.2	653.2	523.7	445.5	469.6	544.8	502.7	433.4	400.3	388.3
75°	1023.4	936.1	547.8	445.5	355.2	382.3	475.6	448.5	373.2	340.1	331.1
77.5°	556.8	517.7	412.4	364.2	279.9	310.0	415.4	370.2	298.0	325.1	289.0
80°	243.8	270.9	273.9	210.7	186.6	228.8	298.0	289.0	228.8	231.8	192.6
82.5°	117.4	153.5	177.6	144.5	105.3	135.4	198.7	165.5	153.5	144.5	138.5
85°	36.1	57.2	78.3	69.2	48.2	57.2	93.3	90.3	108.4	93.3	87.3
87.5°	12.0	12.0	9.0	9.0	9.0	12.0	15.0	9.0	3.0	3.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2125.0	2125.0	2125.0	2125.0	2125.0	2125.0	2125.0	2125.0	2125.0	2125.0	2125.0
2.5°	2079.9	2082.9	2082.9	2085.9	2085.9	2094.9	2107.0	2119.0	2110.0	2122.0	2125.0
5°	1935.4	1950.5	1962.5	2007.6	2043.8	2073.9	2107.0	2137.1	2146.1	2152.1	2167.2
7.5°	1595.3	1637.4	1715.7	1818.0	1932.4	2043.8	2119.0	2197.3	2209.3	2224.4	2245.4
10°	1357.5	1375.6	1429.7	1535.1	1739.8	1959.5	2143.1	2266.5	2317.7	2347.8	2368.8
12.5°	1396.6	1384.6	1375.6	1390.6	1523.0	1806.0	2128.0	2365.8	2462.1	2495.3	2522.3
15°	1489.9	1477.9	1444.8	1402.6	1417.7	1643.4	2076.9	2459.1	2612.6	2666.8	2724.0
17.5°	1544.1	1532.1	1505.0	1459.8	1420.7	1508.0	1980.6	2543.4	2850.4	2916.7	2997.9
20°	1574.2	1562.2	1535.1	1489.9	1444.8	1456.8	1857.1	2648.8	3121.3	3226.7	3347.1
22.5°	1580.2	1565.2	1535.1	1489.9	1462.8	1453.8	1739.8	2712.0	3413.3	3575.8	3714.3
25°	1577.2	1550.1	1511.0	1477.9	1462.8	1459.8	1658.5	2748.1	3729.3	3988.2	4144.7
27.5°	1556.1	1523.0	1483.9	1459.8	1453.8	1471.9	1622.4	2790.2	4099.6	4430.7	4680.5
30°	1532.1	1483.9	1435.8	1426.7	1441.8	1499.0	1652.5	2805.3	4487.9	4912.3	5168.1
32.5°	1468.9	1432.7	1384.6	1381.6	1417.7	1520.0	1721.7	2784.2	4831.0	5393.9	5715.9
35°	1378.6	1357.5	1330.4	1339.4	1396.6	1538.1	1769.9	2718.0	5144.0	5842.3	6218.6
37.5°	1219.0	1234.1	1249.1	1270.2	1342.4	1535.1	1790.9	2612.6	5402.9	6200.5	6682.1
40°	1041.4	1092.6	1140.8	1195.0	1291.3	1511.0	1796.9	2483.2	5553.4	6471.4	7094.5
42.5°	930.1	978.2	1038.4	1116.7	1222.0	1456.8	1790.9	2338.7	5601.5	6658.0	7356.3
45°	827.7	884.9	960.2	1041.4	1161.8	1378.6	1736.7	2182.2	5625.6	6745.3	7467.7
47.5°	773.6	806.7	875.9	957.2	1083.6	1282.2	1631.4	2067.8	5589.5	6763.4	7603.2
50°	710.4	755.5	800.6	878.9	1002.3	1161.8	1505.0	2001.6	5649.7	6941.0	7816.9
52.5°	662.2	686.3	734.4	806.7	897.0	1050.5	1384.6	1947.4	5815.2	7121.6	8039.6
55°	626.1	653.2	683.3	743.5	812.7	939.1	1261.2	1866.2	6007.9	7314.2	8262.3
57.5°	568.9	586.9	629.1	692.3	737.4	830.7	1116.7	1769.9	5992.8	7163.7	7877.1
60°	*517.7*	*535.8*	*580.9*	*644.1*	*671.2*	*734.4*	*975.2*	*1646.4*	*5703.9*	*6673.1*	*7166.7*
62.5°	460.5	481.6	535.8	580.9	605.0	653.2	827.7	1420.7	5101.9	5935.6	6336.0
65°	436.4	448.5	484.6	538.8	535.8	580.9	698.3	1116.7	4105.6	4536.0	4900.2
67.5°	463.5	481.6	475.6	490.6	481.6	505.7	626.1	897.0	3226.7	3416.3	3627.0
70°	457.5	499.7	520.7	490.6	421.4	448.5	541.8	716.4	2308.6	2290.6	2281.6
72.5°	400.3	442.5	502.7	532.8	412.4	373.2	469.6	620.1	1480.9	1474.9	1333.4
75°	340.1	370.2	442.5	481.6	355.2	301.0	403.3	526.7	884.9	897.0	800.6
77.5°	313.0	298.0	370.2	424.4	289.0	231.8	325.1	397.3	487.6	493.6	457.5
80°	225.7	216.7	276.9	310.0	219.7	165.5	183.6	246.8	261.9	234.8	243.8
82.5°	144.5	147.5	165.5	198.7	135.4	90.3	126.4	165.5	141.5	114.4	135.4
85°	93.3	105.3	87.3	102.3	42.1	42.1	54.2	72.2	48.2	33.1	36.1
87.5°	0.0	0.0	6.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1501333
CATALOG NUMBER: GSS-SB3A-740-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	2125.0	2125.0	*2125.0*	2125.0	2125.0	2125.0	2125.0	2125.0	2125.0	2125.0
2.5°	2134.1	2131.1	*2131.1*	2137.1	2152.1	2158.1	2167.2	2164.2	2173.2	2167.2
5°	2176.2	2179.2	*2188.2*	2191.3	2200.3	2212.3	2215.3	2212.3	2218.3	2218.3
7.5°	2260.5	2272.5	*2266.5*	2281.6	2269.5	2254.5	2230.4	2212.3	2197.3	2203.3
10°	2401.9	2395.9	*2392.9*	2365.8	2311.7	2233.4	2170.2	2101.0	2088.9	2076.9
12.5°	2558.5	2552.4	*2552.4*	2459.1	2305.6	2143.1	1998.6	1890.3	1854.1	1851.1
15°	2778.2	2739.1	*2702.9*	2507.3	2200.3	1923.4	1754.8	1670.5	1649.5	1649.5
17.5°	3052.1	2949.8	*2889.6*	2471.2	2028.7	1778.9	1679.6	1658.5	1652.5	1667.5
20°	3392.2	3133.4	*3046.1*	2389.9	1965.5	1796.9	1748.8	1751.8	1754.8	1775.9
22.5°	3765.5	3301.9	*3157.4*	2389.9	2028.7	1911.3	1887.2	1920.4	1929.4	1947.4
25°	4180.8	3452.4	*3256.8*	2516.3	2215.3	2128.0	2097.9	2131.1	2155.1	2185.2
27.5°	4647.4	3608.9	*3428.3*	2745.1	2456.1	2401.9	2368.8	2383.9	2417.0	2453.1
30°	5065.8	3870.8	*3690.2*	3094.2	2784.2	2718.0	2660.8	2684.9	2721.0	2745.1
32.5°	5436.0	4189.9	*4036.4*	3461.5	3160.5	3046.1	2982.9	2976.9	3049.1	3031.0
35°	5776.1	4566.1	*4418.6*	3879.8	3542.7	3401.3	3317.0	3425.3	3377.2	3395.2
37.5°	6044.0	4957.4	*4840.0*	4280.2	3940.0	3747.4	3696.2	3828.7	3903.9	3925.0
40°	6263.7	5297.5	*5174.1*	4677.5	4304.2	4162.8	4244.0	4463.8	4454.7	4445.7
42.5°	6432.3	5589.5	*5454.0*	4978.5	4653.4	4680.5	4743.7	4891.2	4927.3	4876.1
45°	6507.5	5773.1	*5664.7*	5216.3	5050.7	5207.2	5234.3	5297.5	5273.5	5240.3
47.5°	6594.8	5935.6	*5821.3*	5433.0	5481.1	5634.6	5580.5	5529.3	5442.0	5390.8
50°	6742.3	6128.3	*6032.0*	5749.0	5923.6	5872.4	5661.7	5547.4	5369.8	5309.6
52.5°	7022.2	6492.5	*6420.2*	6248.7	6131.3	5836.3	5580.5	5375.8	5177.1	5095.9
55°	7272.1	6986.1	*6944.0*	6715.2	6068.1	5646.7	5303.6	4987.5	4647.4	4578.2
57.5°	7416.5	7804.8	*7853.0*	6913.9	5779.1	5216.3	4710.6	4204.9	3882.9	3825.7
60°	*6986.1*	*8689.8*	*8713.8*	*6874.8*	*5258.4*	*4439.7*	*3669.1*	*3311.0*	*2964.8*	*2865.5*
62.5°	6393.2	8506.2	*8485.1*	6640.0	4186.9	3238.7	2787.2	2618.7	2350.8	2269.5
65°	5496.2	7085.4	*7109.5*	5737.0	2784.2	2341.7	2341.7	2128.0	1830.1	1772.9
67.5°	4478.8	5463.1	*5408.9*	3720.3	1709.7	1875.2	1965.5	1658.5	1240.1	1170.9
70°	2910.6	4171.8	*4096.6*	2146.1	1074.6	1562.2	1547.1	1246.1	887.9	839.8
72.5°	1252.1	2411.0	*2564.5*	1095.6	809.7	1258.2	1234.1	872.9	593.0	571.9
75°	755.5	1213.0	*1321.4*	698.3	590.0	948.1	854.8	553.8	403.3	388.3
77.5°	478.6	665.2	*659.2*	523.7	442.5	641.1	574.9	382.3	273.9	261.9
80°	276.9	328.1	*340.1*	328.1	298.0	457.5	367.2	276.9	213.7	198.7
82.5°	177.6	204.7	*207.7*	159.5	165.5	295.0	198.7	162.5	123.4	111.4
85°	78.3	87.3	*84.3*	54.2	54.2	120.4	69.2	66.2	48.2	48.2
87.5°	3.0	6.0	*3.0*	3.0	3.0	12.0	6.0	9.0	9.0	9.0
90°	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-1

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-740-U-5WQ

Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

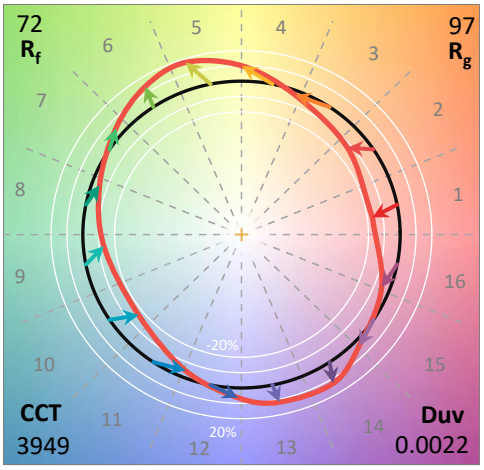
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-1
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	10/15/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGraw-Edison
Catalog Number:	**GSS-SB1A-740-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 4000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3949
CIE u':	0.2248
CIE v':	0.5053
Duv:	0.0022
CIE x:	0.3844
CIE y:	0.3840
CIE z:	0.2316
Peak Wavelength (nm):	440
Dominant Wavelength (nm):	578
Purity:	30.60026
Rf:	71.8
Rg:	96.5

CRI (Ra):	70.7
R1:	68.0
R2:	76.0
R3:	84.3
R4:	72.0
R5:	68.6
R6:	68.3
R7:	77.9
R8:	50.3
R9:	-36.7
R10:	45.1
R11:	70.7
R12:	47.1
R13:	68.5
R14:	91.1
R15:	58.7



Test Conditions

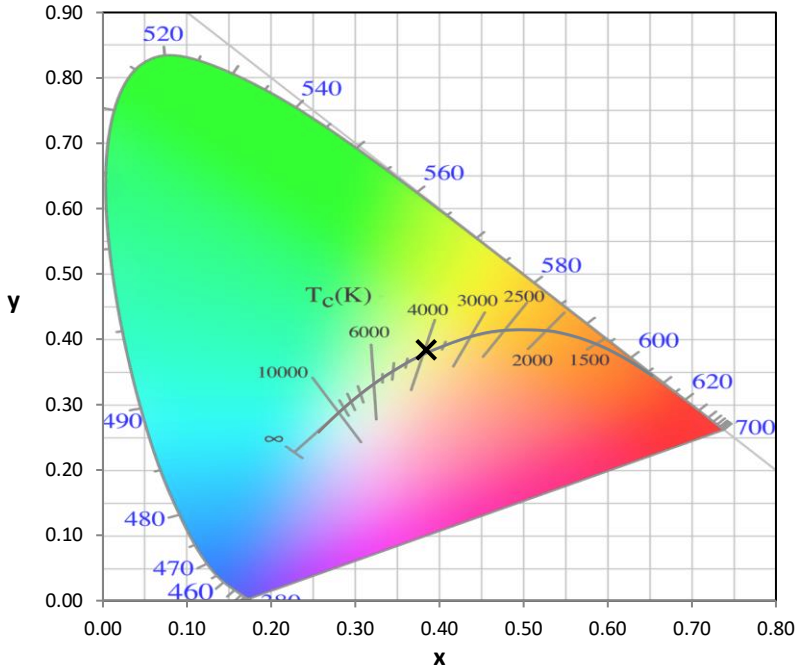
Stabilization Time:	34M
Operation Time:	1H 34M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-1

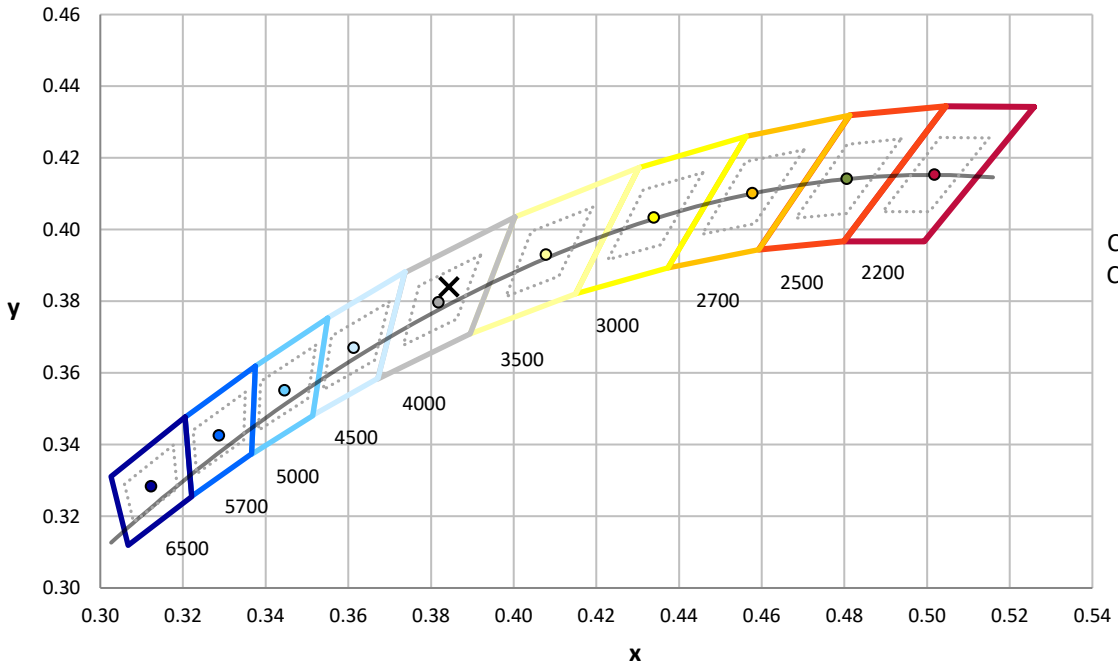
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

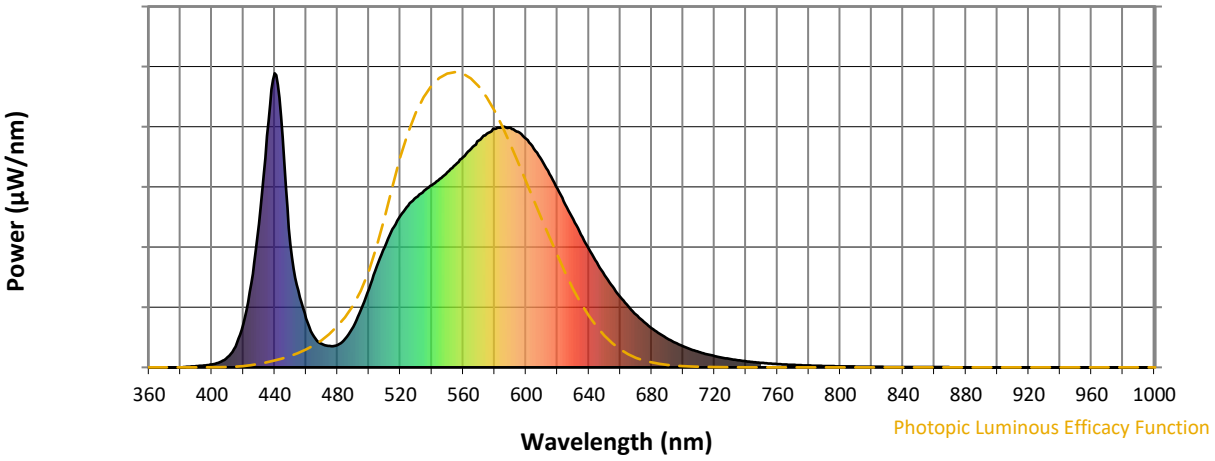


CCT = 3949K
CIE x = 0.3844
CIE y = 0.3840
Duv = 0.0022

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-1

Photopic Flux vs. Wavelength

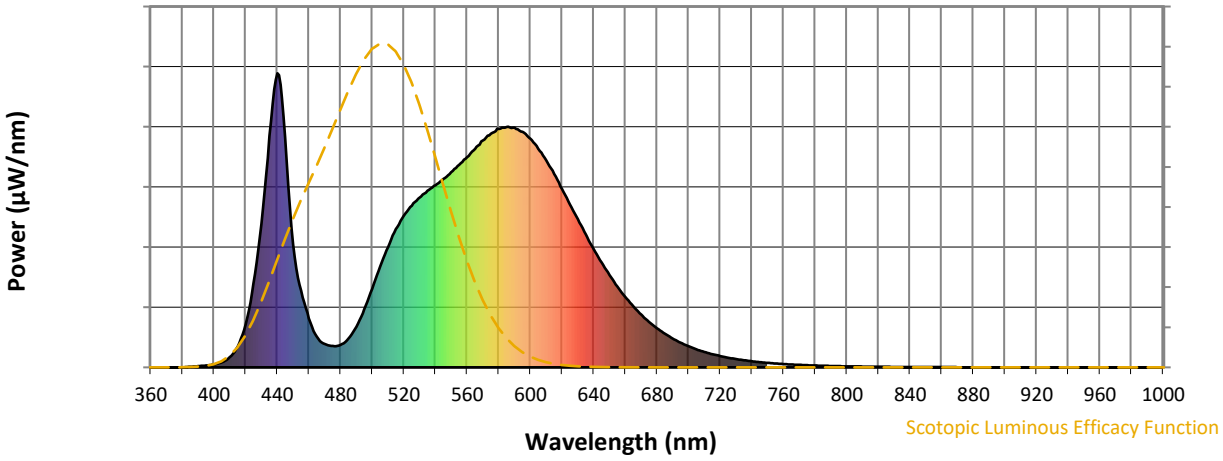


Photopic Lumens: NR

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Scotopic Flux vs. Wavelength

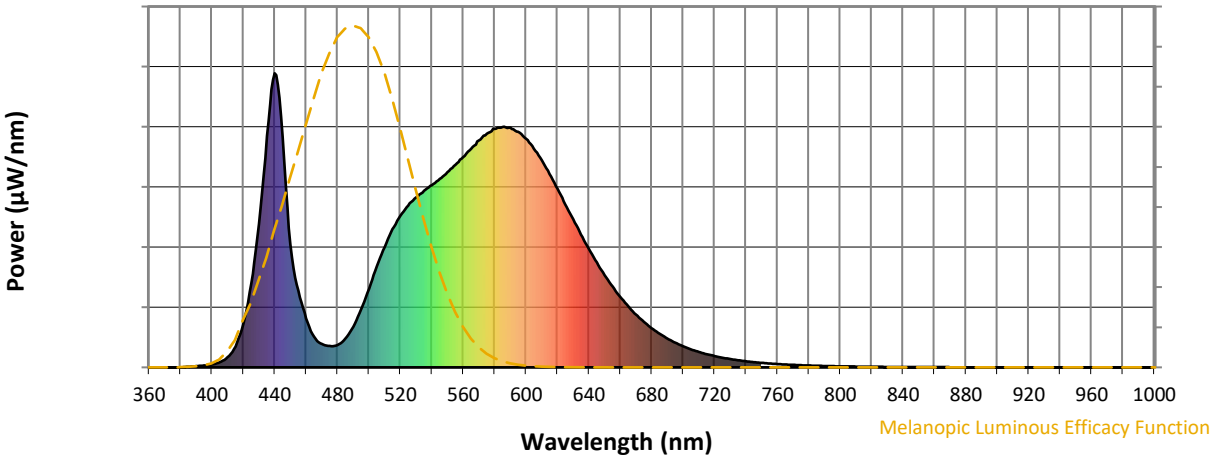


Scotopic Lumens: NR **S/P: 1.47**

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.78**

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

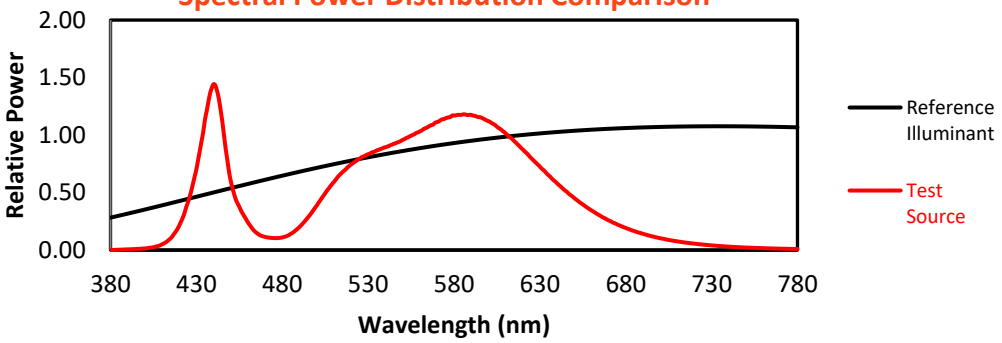
REPORT NUMBER: SP1-2407-184-1

TM-30-18

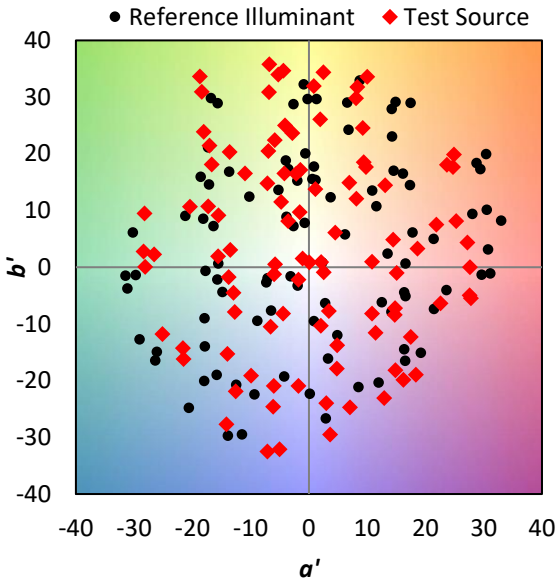
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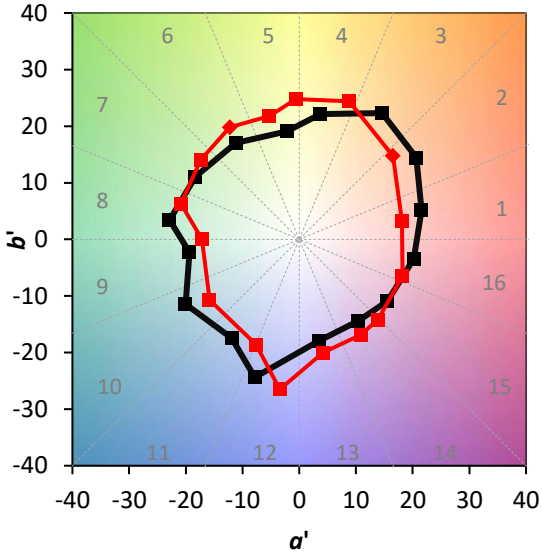
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R_g = 96.5
CIE R_a = 70.7
R_9 = -36.7

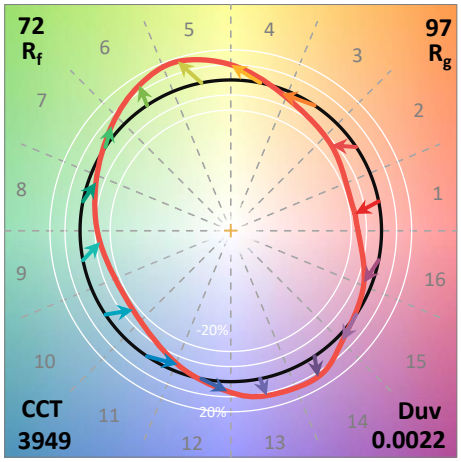
Spectral Power Distribution Comparison

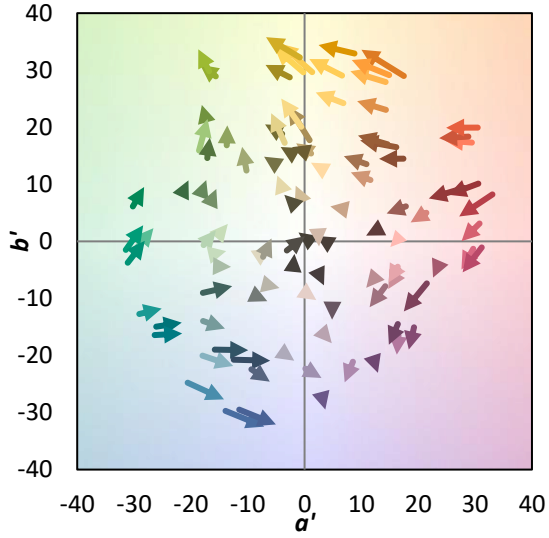


Color Vector Graphics







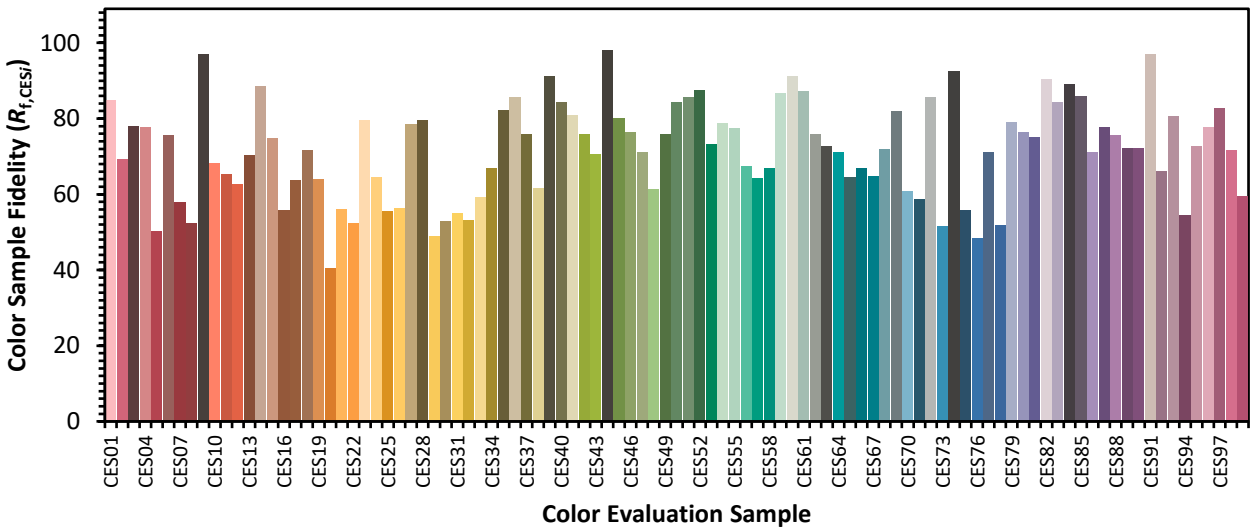


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Individual Sample Fidelity Index ($R_{f,i}$)

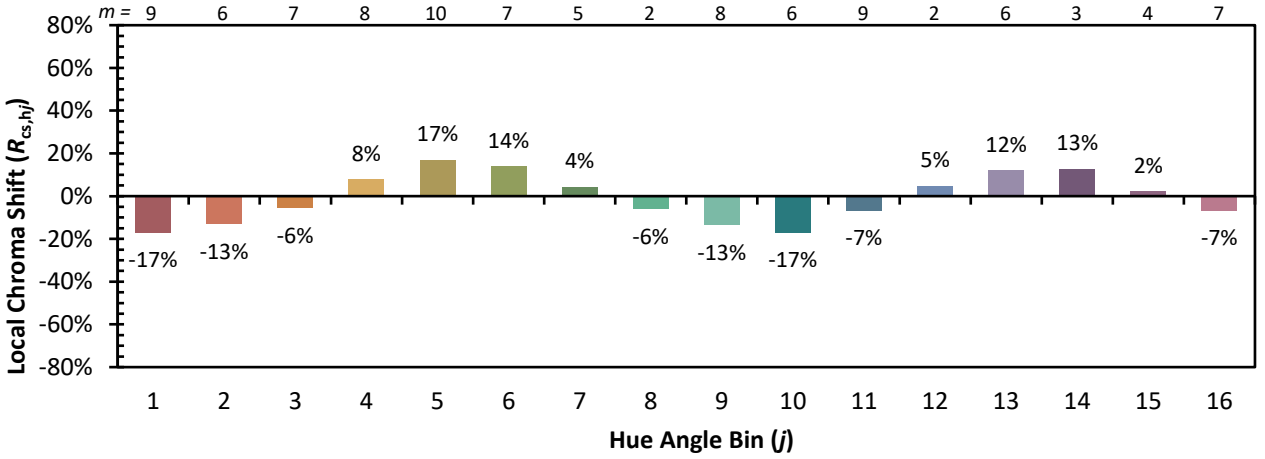
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CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 64	CES82 = 90
CES08 = 39	CES33 = 59	CES58 = 67	CES83 = 84
CES09 = 29	CES34 = 67	CES59 = 87	CES84 = 89
CES10 = 74	CES35 = 82	CES60 = 91	CES85 = 86
CES11 = 57	CES36 = 86	CES61 = 87	CES86 = 71
CES12 = 63	CES37 = 76	CES62 = 76	CES87 = 78
CES13 = 42	CES38 = 62	CES63 = 73	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 71	CES89 = 72
CES15 = 71	CES40 = 84	CES65 = 64	CES90 = 72
CES16 = 46	CES41 = 81	CES66 = 67	CES91 = 97
CES17 = 49	CES42 = 76	CES67 = 65	CES92 = 66
CES18 = 56	CES43 = 71	CES68 = 72	CES93 = 81
CES19 = 72	CES44 = 98	CES69 = 82	CES94 = 55
CES20 = 65	CES45 = 80	CES70 = 61	CES95 = 73
CES21 = 86	CES46 = 76	CES71 = 59	CES96 = 78
CES22 = 78	CES47 = 71	CES72 = 86	CES97 = 83
CES23 = 92	CES48 = 61	CES73 = 52	CES98 = 72
CES24 = 91	CES49 = 76	CES74 = 93	CES99 = 60
CES25 = 72	CES50 = 84	CES75 = 56	

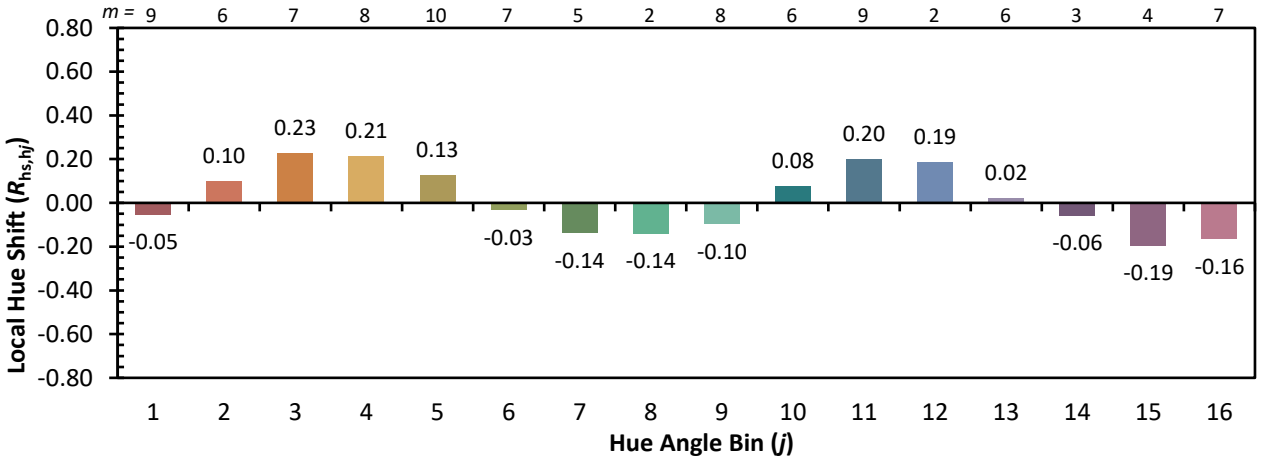


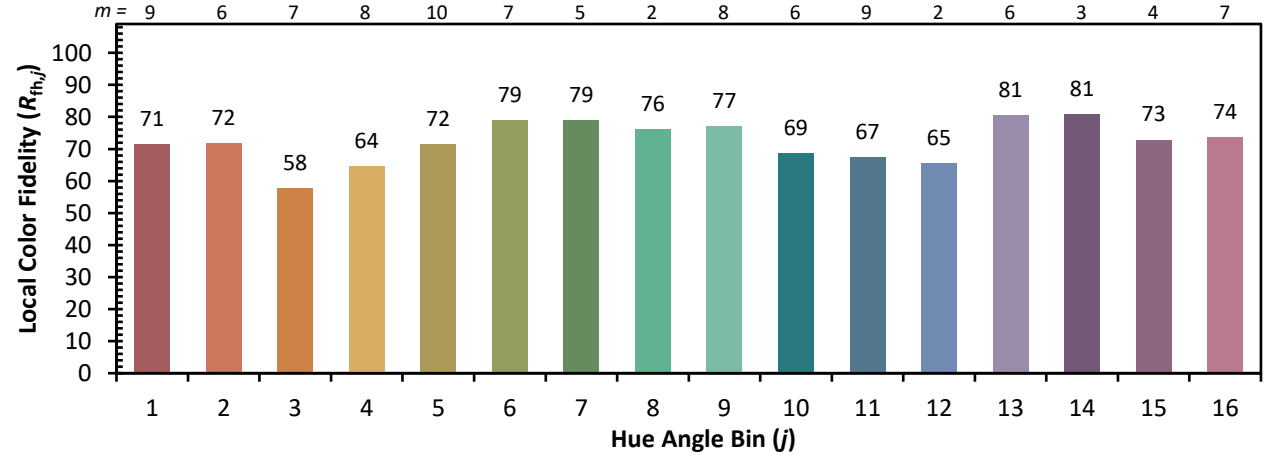
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Color Rendition by Hue-Angle Bin



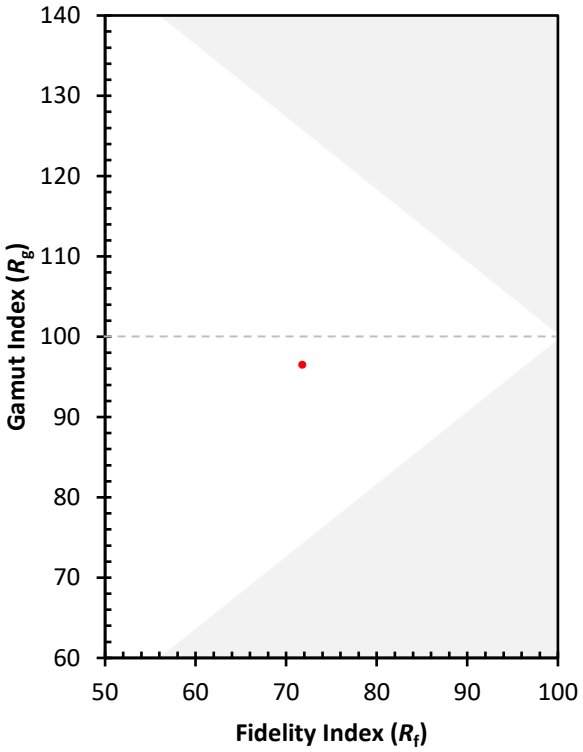


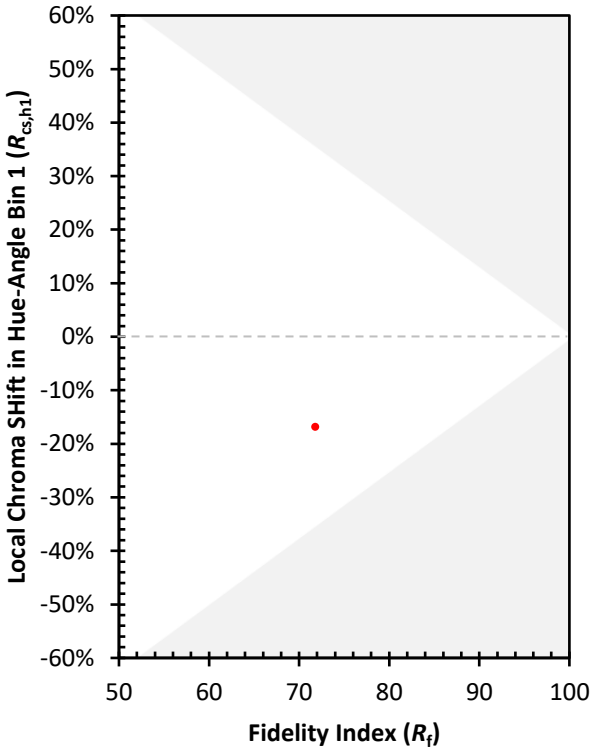


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Measure Comparisons





(END OF REPORT)