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: P1501904

Luminaire Tested: GSS-SB1D-830-U-T2LG-HSS

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:	P1501904
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB1D-830-U-T2LG-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 1SQUARE 76W 80CRI 3000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE W/ HOUSE SIDE SHIELD
Light Source:	(26) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6775.7 lumens
Efficiency:	N/A
Efficacy:	89.2 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G1

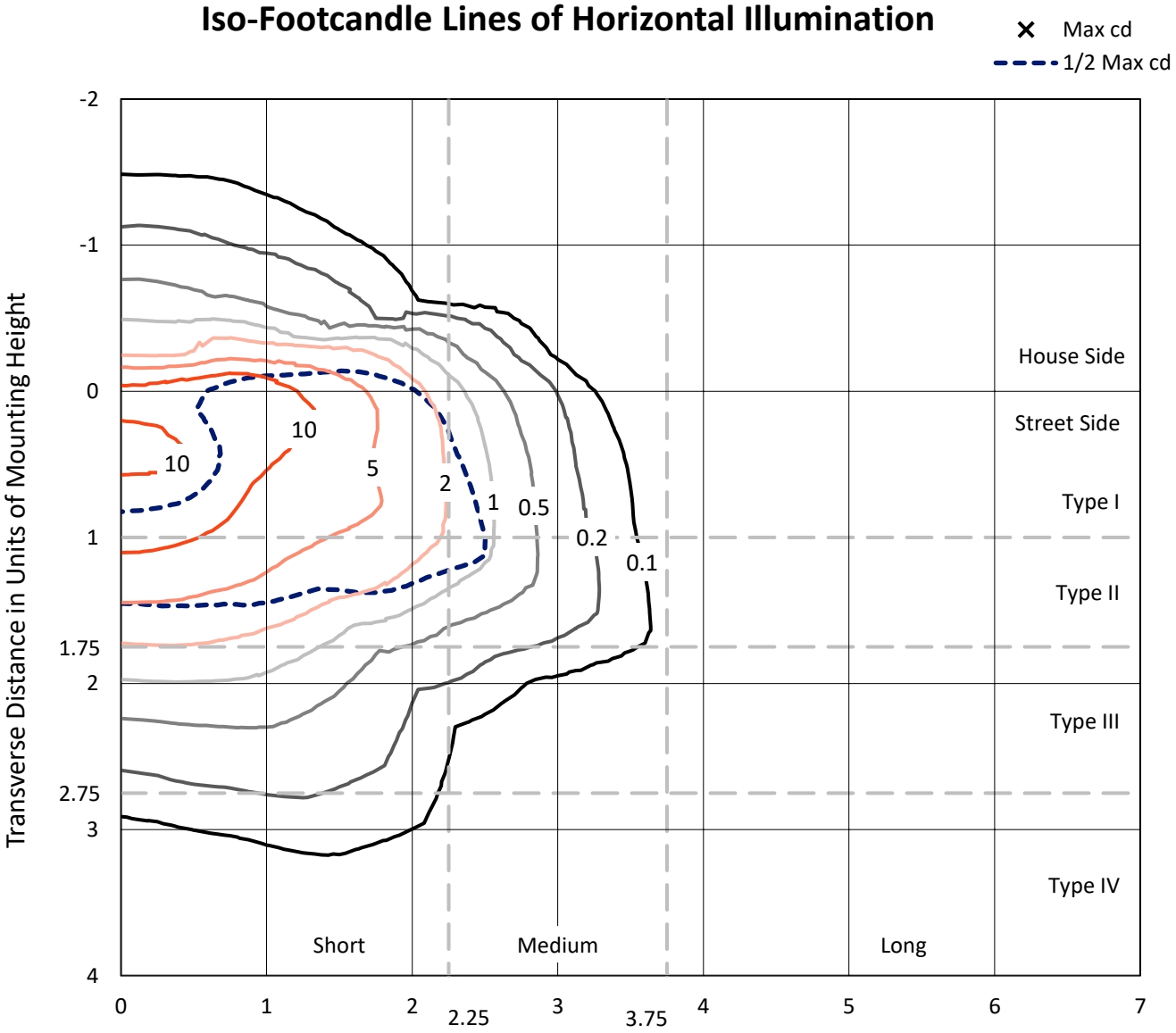
Input Watts (W):	76
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	6.7%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



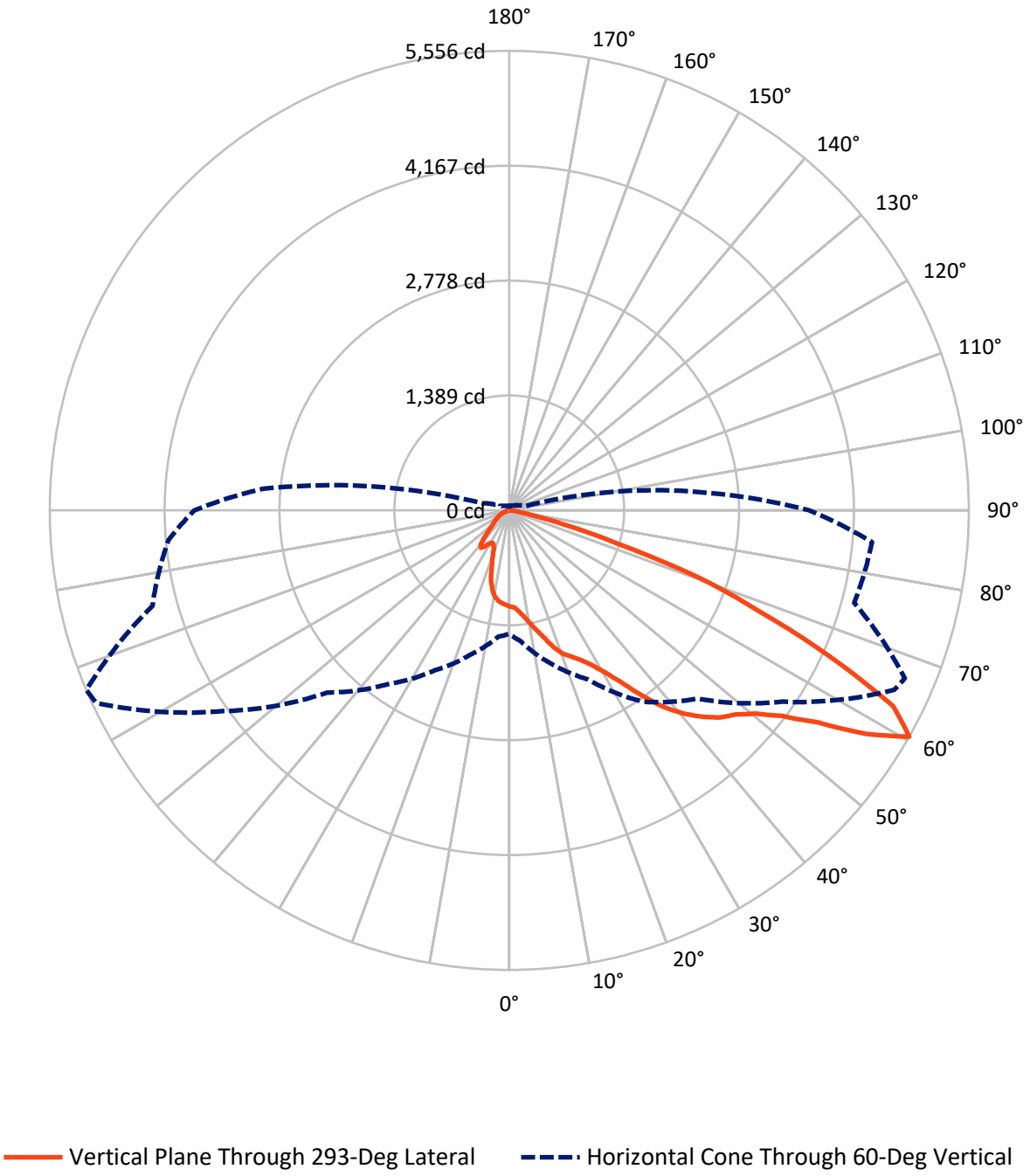
Based on 10 foot mounting height. Maximum calculated value = 19.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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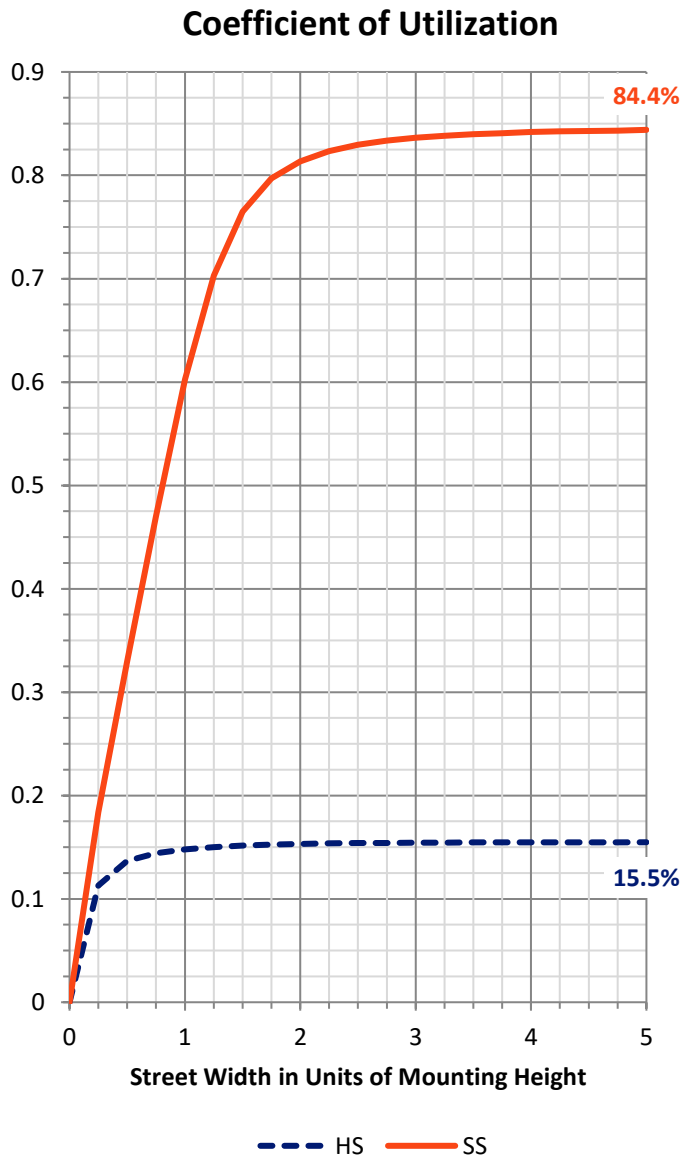
REPORT NUMBER: P1501904
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1057.2	0.0	1057.2
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	5718.5	0.0	5718.5
	% Fixture	84.4	0.0	84.4
Total	Lumens	6775.7	0.0	6775.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.1	1.6
10°-20°	264.8	3.9
20°-30°	494.4	7.3
30°-40°	980.4	14.5
40°-50°	1563.1	23.1
50°-60°	1867.6	27.6
60°-70°	1224.3	18.1
70°-80°	256.5	3.8
80°-90°	19.4	0.3
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°	6775.7	100.0
0°-180°	6775.7	100.0



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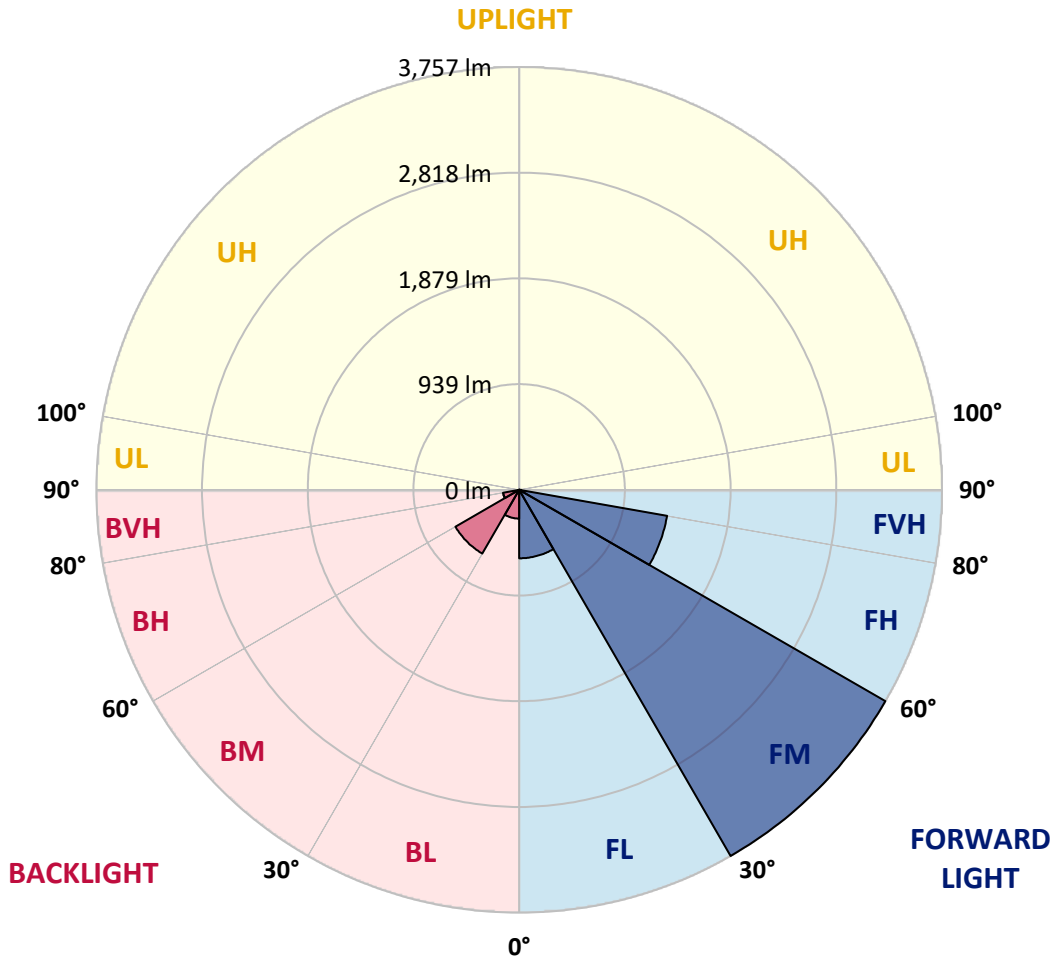
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	608.6	9.0			
FM	(30°-60°)	3757.4	55.5			
FH	(60°-80°)	1334.8	19.7			G1/1800
FVH	(80°-90°)	17.8	0.3			G1/100
BL	(0°-30°)	255.8	3.8	B1/500		
BM	(30°-60°)	653.8	9.6	B1/1000		
BH	(60°-80°)	146.0	2.2	B1/500		G1/500
BVH	(80°-90°)	1.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3
2.5°	1220.1	1216.3	1210.6	1212.5	1210.6	1203.0	1191.6	1182.2	1189.7	1178.4	1170.8
5°	1256.2	1256.2	1252.4	1252.4	1254.3	1250.5	1242.9	1229.6	1231.5	1222.0	1197.3
7.5°	1256.2	1250.5	1260.0	1269.4	1286.5	1296.0	1299.8	1292.2	1296.0	1277.0	1244.8
10°	1182.2	1178.4	1203.0	1239.1	1288.4	1332.1	1360.5	1362.4	1368.1	1349.1	1311.2
12.5°	1024.7	1017.1	1066.4	1134.7	1235.3	1335.9	1415.6	1445.9	1459.2	1451.6	1398.5
15°	878.6	888.0	922.2	996.2	1130.9	1284.6	1445.9	1546.5	1565.5	1574.9	1512.3
17.5°	863.4	865.3	876.7	912.7	1015.2	1201.1	1449.7	1650.8	1677.4	1719.2	1633.8
20°	905.1	901.3	912.7	924.1	973.4	1127.1	1413.7	1751.4	1802.6	1891.8	1798.9
22.5°	982.9	982.9	988.6	996.2	1020.9	1121.4	1398.5	1844.4	1931.7	2113.8	2005.7
25°	1113.8	1098.7	1102.5	1093.0	1113.8	1189.7	1432.6	1918.4	2037.9	2360.5	2252.4
27.5°	1316.9	1322.6	1288.4	1237.2	1248.6	1313.1	1516.1	2001.9	2148.0	2616.7	2502.8
30°	1597.7	1588.2	1567.4	1466.8	1421.2	1478.2	1669.8	2138.5	2296.0	2941.2	2836.8
32.5°	1817.8	1844.4	1808.3	1738.1	1667.9	1685.0	1886.1	2358.6	2476.3	3239.1	3182.1
35°	2083.5	2083.5	2091.1	1992.4	1945.0	1941.2	2157.5	2597.7	2715.4	3508.5	3548.4
37.5°	2442.1	2417.4	2375.7	2265.6	2229.6	2277.0	2411.8	2844.4	2971.5	3726.7	3833.0
40°	2743.8	2760.9	2755.2	2595.8	2525.6	2576.8	2696.4	3055.0	3153.7	3867.2	4062.6
42.5°	3039.8	3049.3	3024.7	2948.8	2846.3	2850.1	2948.8	3214.4	3315.0	4001.9	4278.9
45°	3261.8	3259.9	3242.9	3223.9	3163.2	3100.6	3117.6	3390.9	3478.2	4045.5	4396.6
47.5°	3332.1	3347.2	3362.4	3415.5	3457.3	3358.6	3271.3	3485.8	3565.4	4037.9	4440.2
50°	3267.5	3299.8	3373.8	3453.5	3595.8	3588.2	3400.4	3588.2	3666.0	4079.7	4491.4
52.5°	3123.3	3155.6	3254.3	3398.5	3612.9	3719.1	3639.5	3760.9	3852.0	4185.9	4597.7
55°	2787.5	2800.7	3003.8	3193.5	3527.5	3662.2	3895.6	4053.1	4129.0	4315.0	4738.1
57.5°	2269.4	2301.7	2500.9	2810.2	3288.4	3512.3	4041.7	4552.2	4550.3	4438.3	4768.5
60°	*1493.4*	*1588.2*	*1912.7*	*2254.3*	*2825.4*	*3218.2*	*4032.2*	*5136.6*	*5195.4*	*4316.9*	*4402.3*
62.5°	1140.4	1180.3	1364.3	1648.9	2091.1	2667.9	3969.6	5311.2	5356.7	3990.5	3853.9
65°	857.7	907.0	1083.5	1337.8	1476.3	1808.3	3559.8	4616.7	4679.3	3561.7	2996.2
67.5°	525.6	565.5	800.8	1098.7	1117.6	1123.3	2402.3	3497.1	3519.9	2872.9	2017.1
70°	351.0	390.9	554.1	844.4	889.9	647.1	1318.8	2647.0	2645.1	1965.8	1225.8
72.5°	203.0	222.0	351.0	622.4	700.2	411.8	658.4	1683.1	1609.1	924.1	573.1
75°	115.7	129.0	193.5	400.4	491.5	261.9	260.0	901.3	797.0	476.3	313.1
77.5°	70.2	75.9	106.3	261.9	296.0	176.5	144.2	419.4	404.2	278.9	165.1
80°	34.2	39.8	64.5	153.7	189.8	94.9	87.3	165.1	176.5	153.7	87.3
82.5°	11.4	15.2	36.1	58.8	123.3	38.0	36.1	91.1	96.8	91.1	41.7
85°	5.7	7.6	17.1	19.0	47.4	19.0	13.3	39.8	49.3	30.4	17.1
87.5°	0.0	1.9	1.9	1.9	1.9	1.9	1.9	3.8	3.8	3.8	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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CATALOG NUMBER: GSS-SB1D-830-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3
2.5°	1165.1	1161.3	1153.7	1140.4	1138.5	1129.0	1113.8	1104.4	1096.8	1102.5	1104.4
5°	1186.0	1176.5	1153.7	1117.6	1079.7	1041.7	1005.7	963.9	935.5	931.7	924.1
7.5°	1223.9	1204.9	1155.6	1085.4	988.6	897.5	791.3	688.8	637.6	630.0	612.9
10°	1284.6	1252.4	1170.8	1028.5	842.5	652.7	491.5	381.4	318.8	307.4	311.2
12.5°	1356.7	1311.2	1172.7	931.7	641.4	404.2	278.9	237.2	223.9	218.2	218.2
15°	1449.7	1383.3	1170.8	806.4	432.6	260.0	223.9	206.8	201.1	197.3	197.3
17.5°	1567.4	1480.1	1157.5	618.6	292.2	225.8	204.9	191.6	184.1	182.2	182.2
20°	1705.9	1588.2	1127.1	461.1	244.8	210.6	193.5	176.5	170.8	167.0	167.0
22.5°	1882.3	1719.2	1068.3	358.6	231.5	201.1	182.2	163.2	157.5	153.7	153.7
25°	2087.3	1886.1	990.5	322.6	229.6	193.5	170.8	151.8	146.1	144.2	142.3
27.5°	2330.2	2064.5	918.4	324.5	233.4	187.9	159.4	142.3	136.6	130.9	132.8
30°	2616.7	2248.6	859.6	347.2	237.2	182.2	151.8	136.6	130.9	123.3	123.3
32.5°	2899.4	2464.9	853.9	389.0	250.5	178.4	144.2	129.0	123.3	117.6	117.6
35°	3189.7	2662.2	886.1	444.0	277.0	172.7	134.7	121.4	115.7	112.0	110.1
37.5°	3466.8	2819.7	916.5	478.2	261.9	148.0	123.3	112.0	106.3	98.7	98.7
40°	3650.8	2905.1	922.2	451.6	216.3	132.8	112.0	100.6	93.0	89.2	87.3
42.5°	3785.6	2960.1	857.7	366.2	187.9	121.4	102.5	91.1	85.4	81.6	81.6
45°	3840.6	2941.2	747.6	278.9	172.7	112.0	93.0	83.5	79.7	75.9	75.9
47.5°	3833.0	2853.9	635.7	223.9	157.5	102.5	87.3	79.7	75.9	72.1	70.2
50°	3819.7	2772.3	521.8	199.2	140.4	96.8	81.6	75.9	70.2	66.4	64.5
52.5°	3907.0	2745.7	432.6	182.2	130.9	93.0	79.7	72.1	66.4	62.6	62.6
55°	3994.3	2757.1	339.7	170.8	121.4	91.1	77.8	70.2	64.5	58.8	58.8
57.5°	3988.6	2707.8	258.1	159.4	113.9	89.2	75.9	68.3	58.8	55.0	55.0
60°	*3626.2*	*2415.5*	*201.1*	*146.1*	*104.4*	*83.5*	*70.2*	*64.5*	*55.0*	*49.3*	*49.3*
62.5°	3066.4	1899.4	165.1	129.0	93.0	75.9	64.5	58.8	49.3	39.8	39.8
65°	2265.6	1370.0	132.8	112.0	85.4	66.4	58.8	51.2	39.8	32.3	30.4
67.5°	1533.2	842.5	106.3	93.0	75.9	56.9	49.3	43.6	36.1	26.6	24.7
70°	908.9	447.8	77.8	64.5	56.9	41.7	41.7	38.0	30.4	22.8	20.9
72.5°	432.6	155.6	56.9	47.4	43.6	30.4	32.3	32.3	24.7	17.1	15.2
75°	220.1	75.9	38.0	34.2	28.5	22.8	26.6	24.7	17.1	11.4	11.4
77.5°	125.2	53.1	26.6	22.8	19.0	15.2	17.1	15.2	9.5	5.7	5.7
80°	70.2	38.0	17.1	15.2	11.4	9.5	9.5	7.6	5.7	1.9	1.9
82.5°	26.6	22.8	11.4	7.6	5.7	5.7	3.8	3.8	1.9	0.0	0.0
85°	11.4	5.7	5.7	3.8	3.8	1.9	1.9	1.9	0.0	0.0	0.0
87.5°	1.9	1.9	1.9	1.9	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

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3
2.5°	1089.2	1093.0	1096.8	1111.9	1115.7	1127.1	1136.6	1148.0	1149.9	1165.1	1165.1
5°	939.3	937.4	969.6	1017.1	1047.4	1089.2	1121.4	1155.6	1174.6	1199.2	1210.6
7.5°	622.4	669.8	741.9	825.4	933.6	1034.2	1110.1	1176.5	1222.0	1250.5	1261.9
10°	309.3	335.9	411.8	548.4	732.4	937.4	1098.7	1222.0	1296.0	1328.3	1349.1
12.5°	218.2	223.9	237.2	311.2	487.7	778.0	1062.6	1271.3	1373.8	1434.5	1461.1
15°	195.4	199.2	204.9	225.8	301.7	580.6	998.1	1326.4	1495.2	1565.5	1599.6
17.5°	180.3	182.2	187.9	204.9	237.2	394.7	893.7	1385.2	1641.4	1726.7	1791.3
20°	167.0	167.0	172.7	193.5	220.1	303.6	743.8	1451.6	1827.3	1950.7	2015.2
22.5°	151.8	155.6	159.4	182.2	214.4	277.0	603.4	1502.8	2034.1	2184.1	2260.0
25°	140.4	144.2	148.0	170.8	208.7	277.0	521.8	1535.1	2265.6	2444.0	2548.4
27.5°	130.9	134.7	140.4	163.2	203.0	288.4	489.6	1544.6	2518.0	2749.5	2889.9
30°	123.3	127.1	132.8	157.5	206.8	301.7	500.9	1531.3	2774.2	3064.5	3231.5
32.5°	115.7	119.5	125.2	151.8	206.8	318.8	538.9	1504.7	3022.8	3379.5	3584.4
35°	110.1	112.0	113.9	136.6	187.9	316.9	586.3	1478.2	3273.2	3690.7	3929.8
37.5°	98.7	100.6	104.4	117.6	149.9	288.4	595.8	1445.9	3470.6	3952.5	4216.3
40°	87.3	91.1	94.9	108.2	125.2	233.4	554.1	1377.6	3574.9	4153.7	4474.4
42.5°	79.7	81.6	85.4	98.7	115.7	186.0	464.9	1258.1	3667.9	4290.3	4662.2
45°	74.0	75.9	79.7	89.2	108.2	161.3	366.2	1111.9	3675.5	4333.9	4753.3
47.5°	68.3	70.2	72.1	81.6	104.4	144.2	280.8	979.1	3673.6	4390.9	4831.1
50°	64.5	66.4	70.2	77.8	98.7	129.0	231.5	871.0	3753.3	4514.2	4988.6
52.5°	62.6	62.6	68.3	75.9	93.0	117.6	193.5	774.2	3795.0	4635.7	5102.4
55°	58.8	60.7	64.5	72.1	87.3	112.0	165.1	652.7	3814.0	4696.4	5123.3
57.5°	55.0	56.9	62.6	68.3	83.5	106.3	142.3	487.7	3542.7	4379.5	4774.2
60°	*49.3*	*53.1*	*60.7*	*66.4*	*77.8*	*96.8*	*125.2*	*330.2*	*2988.6*	*3806.4*	*4136.6*
62.5°	39.8	47.4	55.0	58.8	70.2	81.6	106.3	220.1	2387.1	3149.9	3525.6
65°	30.4	39.8	45.5	51.2	58.8	68.3	89.2	149.9	1592.0	2119.5	2542.7
67.5°	26.6	34.2	38.0	41.7	49.3	58.8	72.1	104.4	965.8	1273.2	1690.7
70°	20.9	28.5	32.3	30.4	38.0	45.5	51.2	70.2	493.4	690.7	962.0
72.5°	15.2	22.8	24.7	24.7	22.8	32.3	38.0	49.3	214.4	335.9	436.4
75°	11.4	15.2	17.1	15.2	13.3	20.9	26.6	32.3	140.4	201.1	254.3
77.5°	5.7	5.7	9.5	9.5	5.7	11.4	13.3	19.0	79.7	117.6	146.1
80°	1.9	0.0	0.0	1.9	0.0	3.8	5.7	9.5	41.7	62.6	91.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	20.9	19.0	47.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	11.4
87.5°	0.0	0.0	0.0	0.0	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

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

Scaled Data Report

REPORT NUMBER: P1501904
CATALOG NUMBER: GSS-SB1D-830-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	1161.3	*1161.3*	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3
2.5°	1174.6	*1174.6*	1182.2	1193.5	1199.2	1203.0	1204.9	1208.7	1223.9	1220.1
5°	1223.9	*1227.7*	1233.4	1244.8	1258.1	1254.3	1254.3	1254.3	1263.8	1256.2
7.5°	1288.4	*1299.8*	1301.7	1315.0	1305.5	1286.5	1275.1	1258.1	1256.2	1256.2
10°	1392.8	*1389.0*	1389.0	1371.9	1337.8	1282.7	1233.4	1199.2	1180.3	1182.2
12.5°	1504.7	*1489.6*	1491.5	1428.8	1332.1	1210.6	1110.1	1036.0	1030.4	1024.7
15°	1643.3	*1603.4*	1595.8	1451.6	1246.7	1060.7	962.0	903.2	884.2	878.6
17.5°	1840.6	*1740.0*	1704.0	1411.8	1134.7	967.7	893.7	867.2	865.3	863.4
20°	2049.3	*1850.1*	1781.8	1352.9	1096.8	969.6	914.6	907.0	903.2	905.1
22.5°	2292.2	*1920.3*	1833.0	1362.4	1130.9	1032.3	988.6	982.9	979.1	982.9
25°	2542.7	*2001.9*	1893.7	1438.3	1233.4	1148.0	1096.8	1085.4	1096.8	1113.8
27.5°	2795.1	*2111.9*	2013.3	1588.2	1398.5	1305.5	1256.2	1297.9	1315.0	1316.9
30°	3019.0	*2265.6*	2174.6	1798.9	1586.3	1493.4	1502.8	1556.0	1576.8	1597.7
32.5°	3223.9	*2470.6*	2400.4	2037.9	1829.2	1774.2	1768.5	1808.3	1831.1	1817.8
35°	3430.7	*2738.1*	2669.8	2297.9	2127.1	2081.6	2034.1	2111.9	2104.4	2083.5
37.5°	3626.2	*3007.6*	2945.0	2576.8	2400.4	2320.7	2313.1	2383.3	2445.9	2442.1
40°	3766.6	*3225.8*	3149.9	2853.9	2686.9	2618.6	2658.4	2779.9	2764.7	2743.8
42.5°	3895.6	*3411.7*	3343.4	3096.8	2922.2	2952.5	2988.6	3070.2	3060.7	3039.8
45°	3956.3	*3571.1*	3512.3	3280.8	3195.4	3292.2	3290.3	3320.7	3269.4	3261.8
47.5°	4041.7	*3685.0*	3624.3	3445.9	3521.8	3561.7	3449.7	3417.4	3370.0	3332.1
50°	4199.2	*3861.5*	3800.7	3696.4	3760.9	3637.6	3500.9	3430.7	3334.0	3267.5
52.5°	4383.3	*4129.0*	4075.9	4034.1	3853.9	3599.6	3425.0	3297.9	3180.3	3123.3
55°	4614.8	*4523.7*	4485.7	4256.1	3770.4	3444.0	3239.1	3001.9	2840.6	2787.5
57.5°	4690.7	*5102.4*	5089.2	4292.2	3537.0	3161.3	2791.3	2470.6	2303.6	2269.4
60°	*4466.8*	*5556.0*	*5508.5*	*4231.5*	*3113.8*	*2565.5*	*2132.8*	*1804.5*	*1533.2*	*1493.4*
62.5°	4180.2	*5208.7*	5191.6	3926.0	2371.9	1838.7	1593.9	1286.5	1170.8	1140.4
65°	3580.6	*4261.8*	4269.4	3149.9	1500.9	1320.7	1309.3	1022.8	880.5	857.7
67.5°	2757.1	*3269.4*	3216.3	1981.0	874.8	1056.9	1045.5	747.6	540.8	525.6
70°	1611.0	*2434.5*	2349.1	1030.4	578.7	882.3	804.6	525.6	368.1	351.0
72.5°	711.6	*1339.7*	1438.3	453.5	408.0	702.1	580.6	322.6	206.8	203.0
75°	394.7	*664.1*	694.5	197.3	286.5	499.0	351.0	180.3	117.6	115.7
77.5°	237.2	*294.1*	286.5	127.1	214.4	318.8	212.5	102.5	74.0	70.2
80°	132.8	*134.7*	113.9	93.0	127.1	178.4	119.5	64.5	34.2	34.2
82.5°	81.6	*74.0*	58.8	28.5	34.2	108.2	43.6	36.1	11.4	11.4
85°	34.2	*22.8*	15.2	5.7	13.3	28.5	15.2	17.1	5.7	5.7
87.5°	0.0	*0.0*	0.0	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

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: SP1-2407-184-9

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-830-U-5WQ

Data in this report applies to families of products including GSS-SB1A-830-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

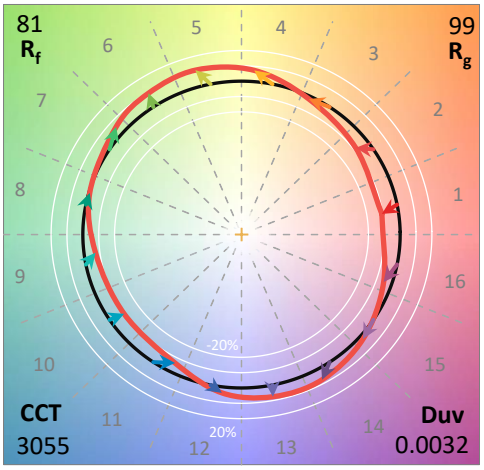
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-9
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-830-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 3000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3055
CIE u':	0.2475
CIE v':	0.5247
Duv:	0.0032
CIE x:	0.4377
CIE y:	0.4124
CIE z:	0.1499
Peak Wavelength (nm):	604
Dominant Wavelength (nm):	581
Purity:	55.16339
Rf:	81.5
Rg:	99.2

CRI (Ra):	80.9
R1:	79.5
R2:	85.6
R3:	92.1
R4:	82.4
R5:	78.9
R6:	81.7
R7:	85.1
R8:	61.9
R9:	6.8
R10:	67.1
R11:	82.5
R12:	63.4
R13:	80.2
R14:	95.1
R15:	71.7



Test Conditions

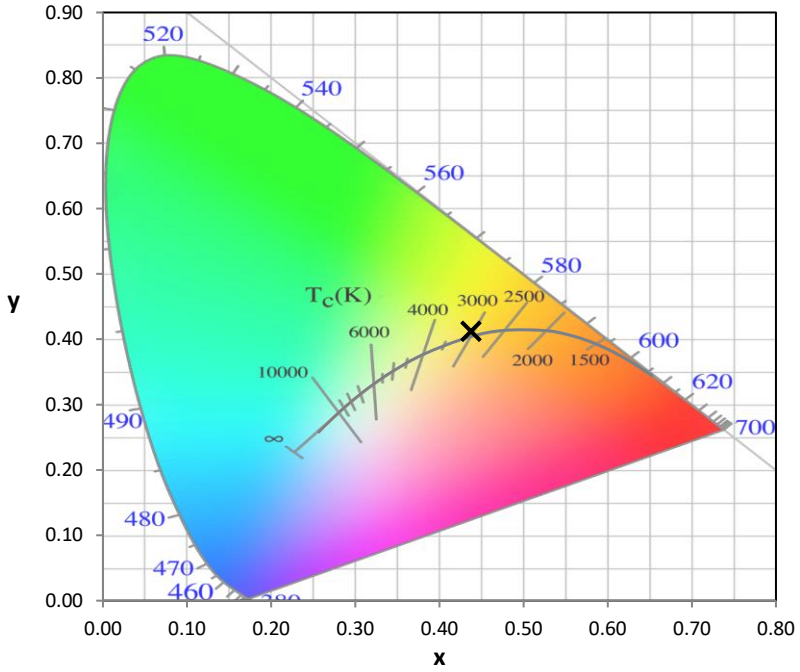
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-9

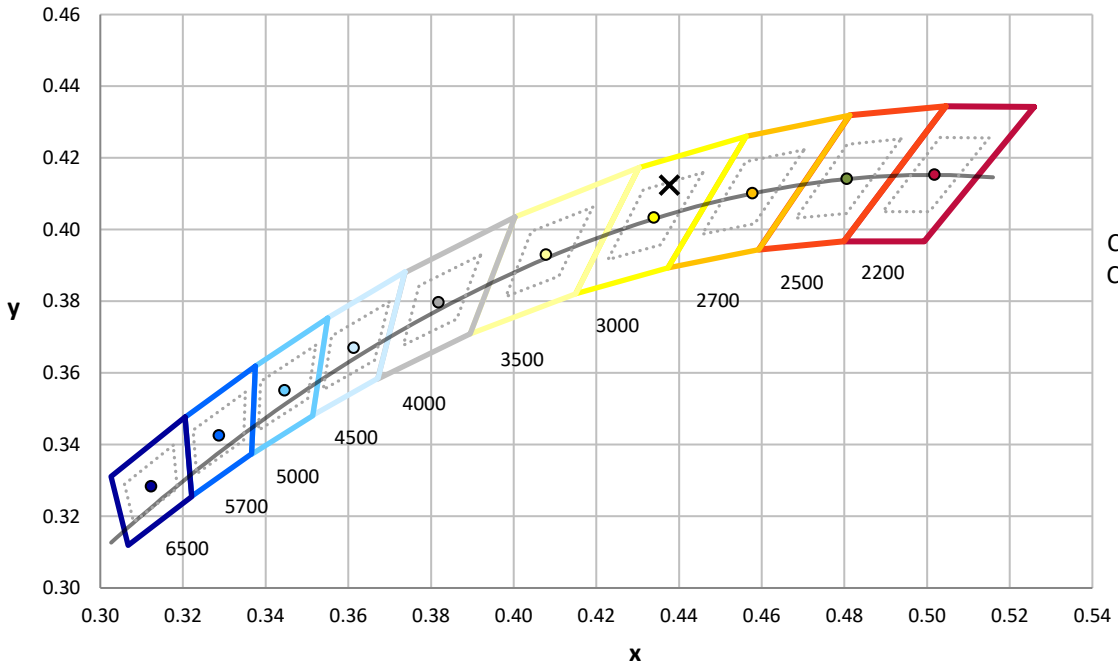
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-9

CIE 1931 Chromaticity Diagram



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

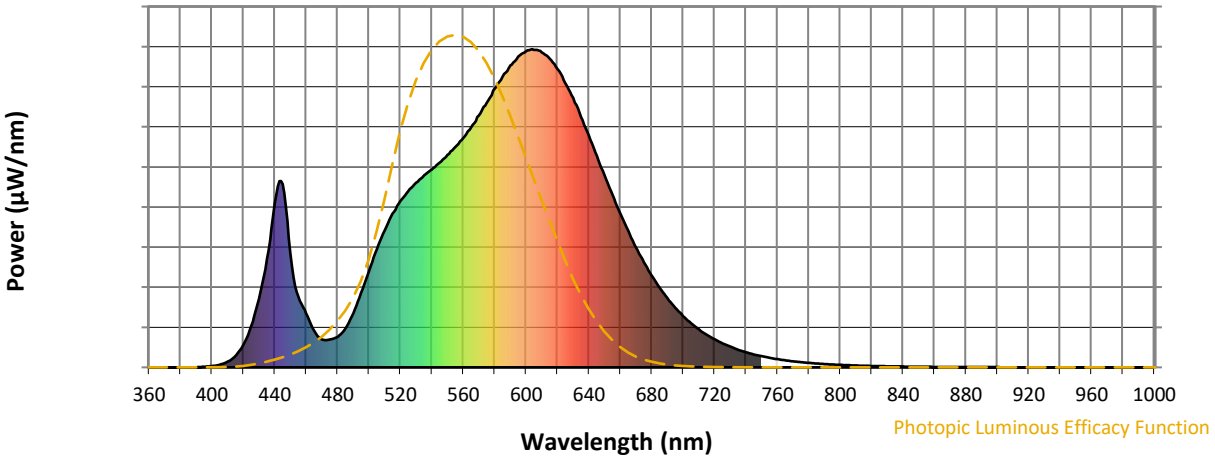


CCT = 3055K
CIE x = 0.4377
CIE y = 0.4124
Duv = 0.0032

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-9

Photopic Flux vs. Wavelength

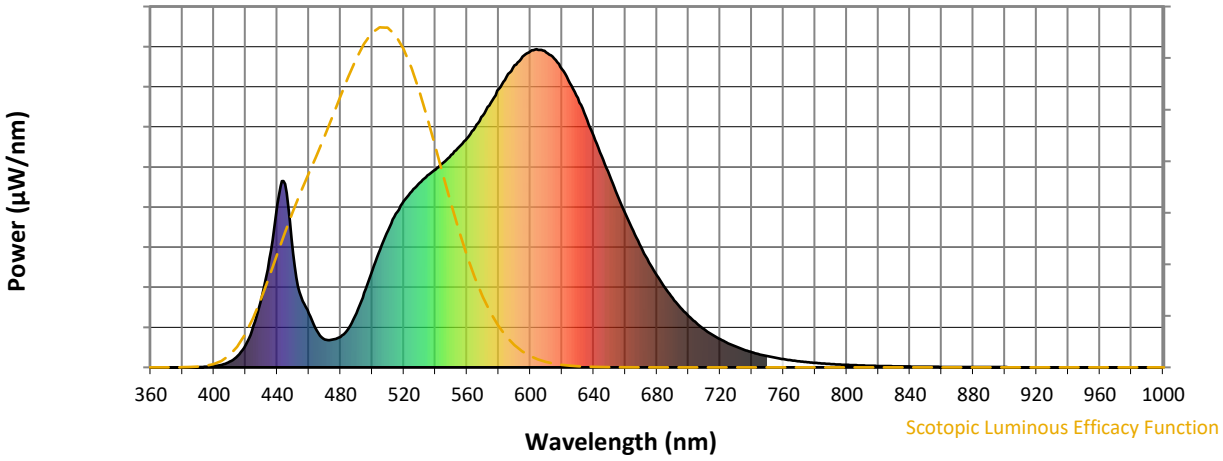


Photopic Lumens: NR

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

Scotopic Flux vs. Wavelength

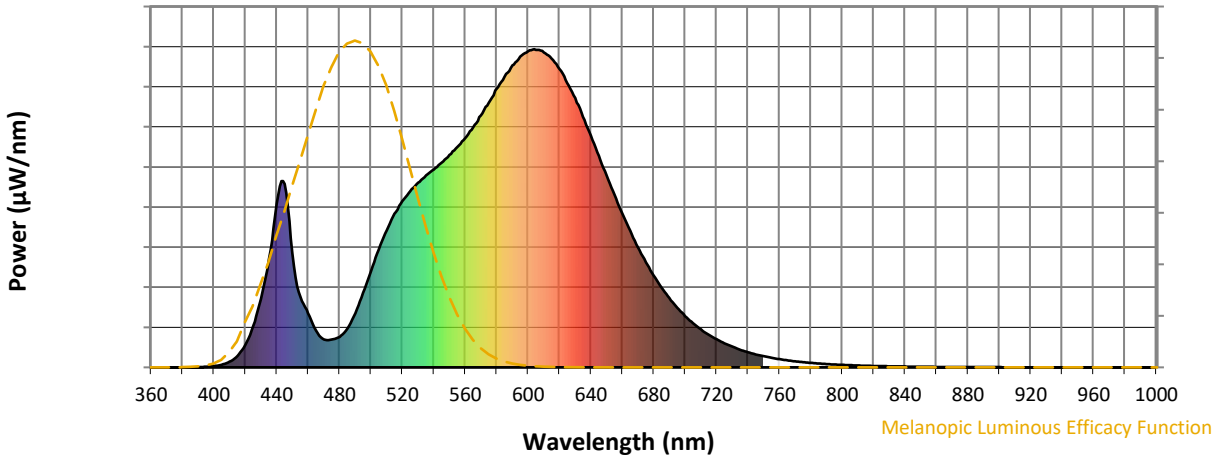


Scotopic Lumens: NR **S/P: 1.28**

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.33**

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

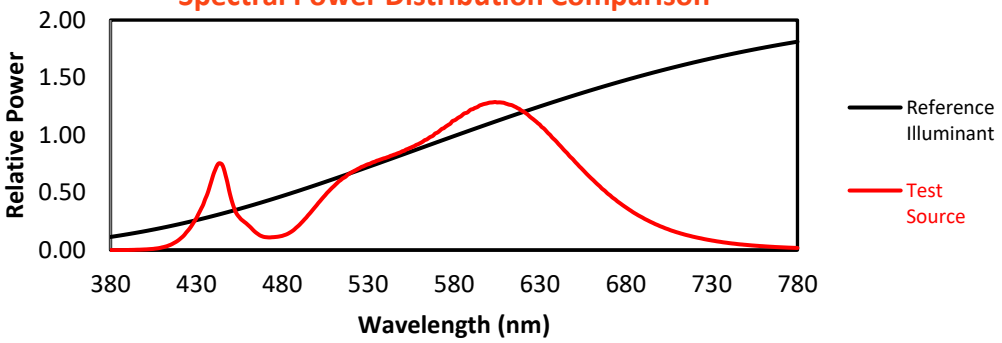
REPORT NUMBER: SP1-2407-184-9

TM-30-18

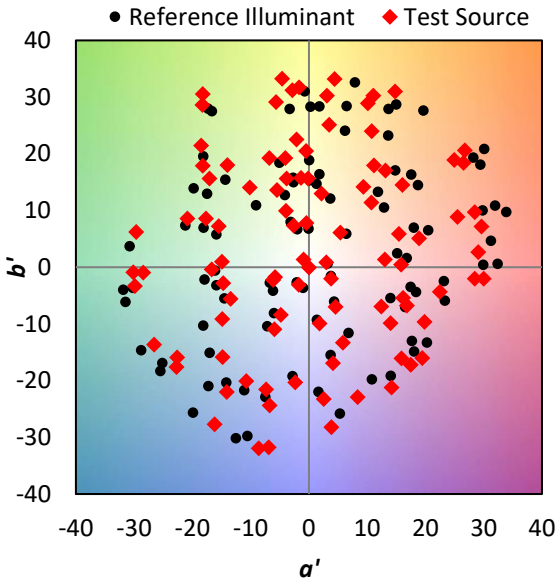
Summary

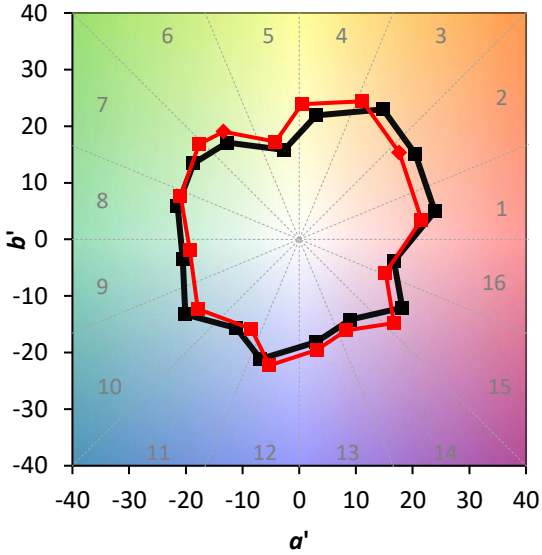
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R_g = 99.2
CIE R_a = 80.9
R_9 = 6.8

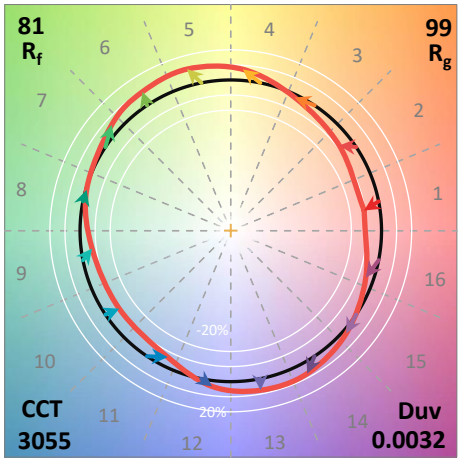
Spectral Power Distribution Comparison

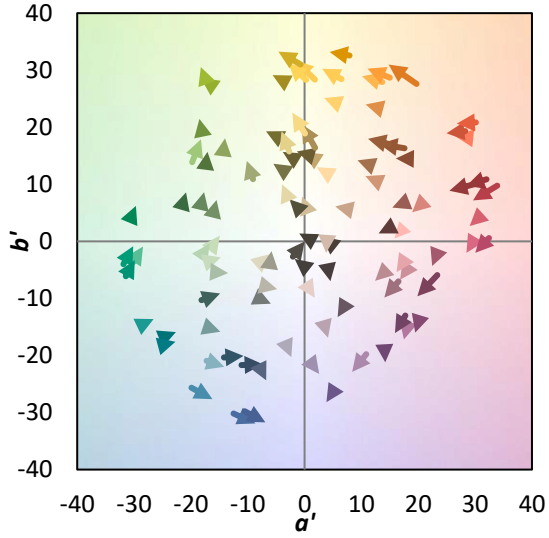


Color Vector Graphics







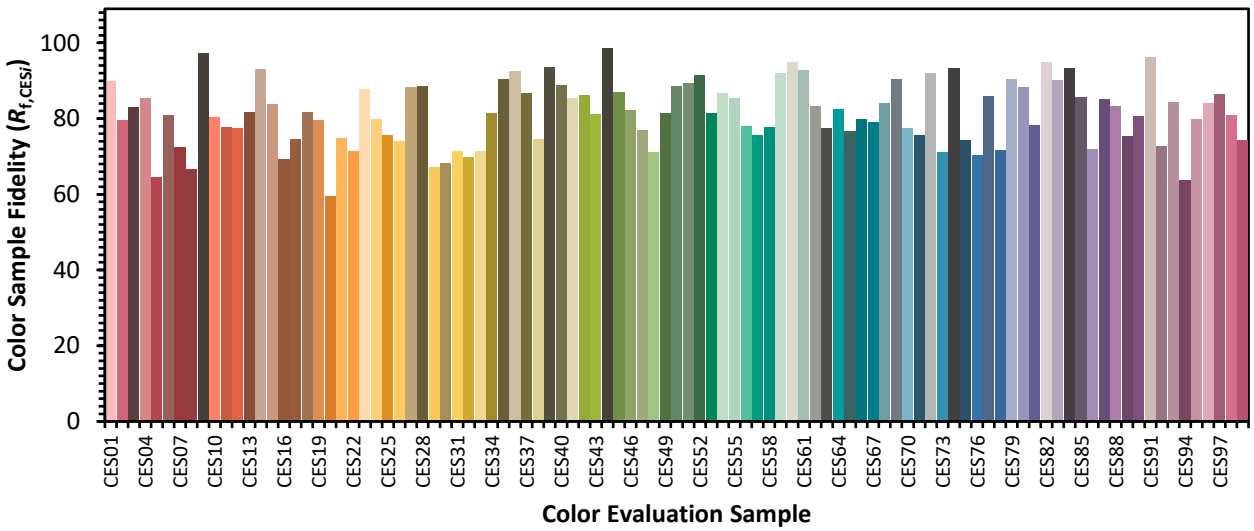


REPORT NUMBER: SP1-2407-184-9

TM-30-18

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

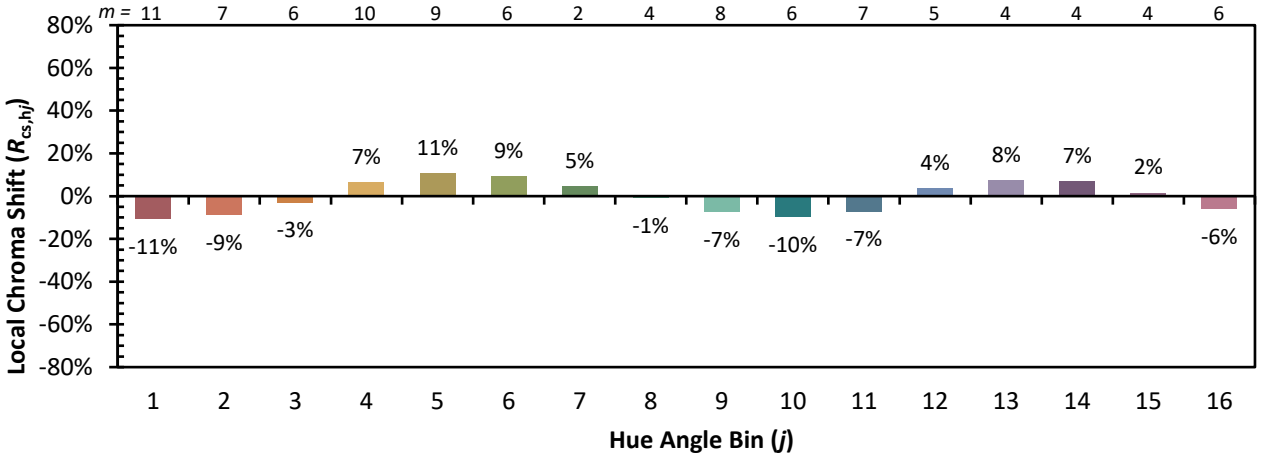
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CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 93
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 = 90	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 77	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
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CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	

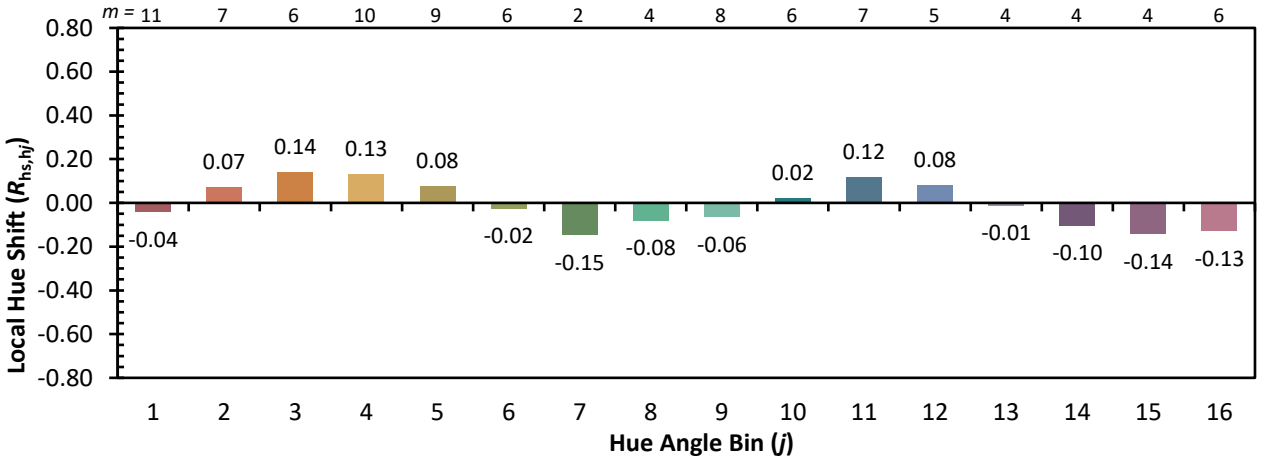


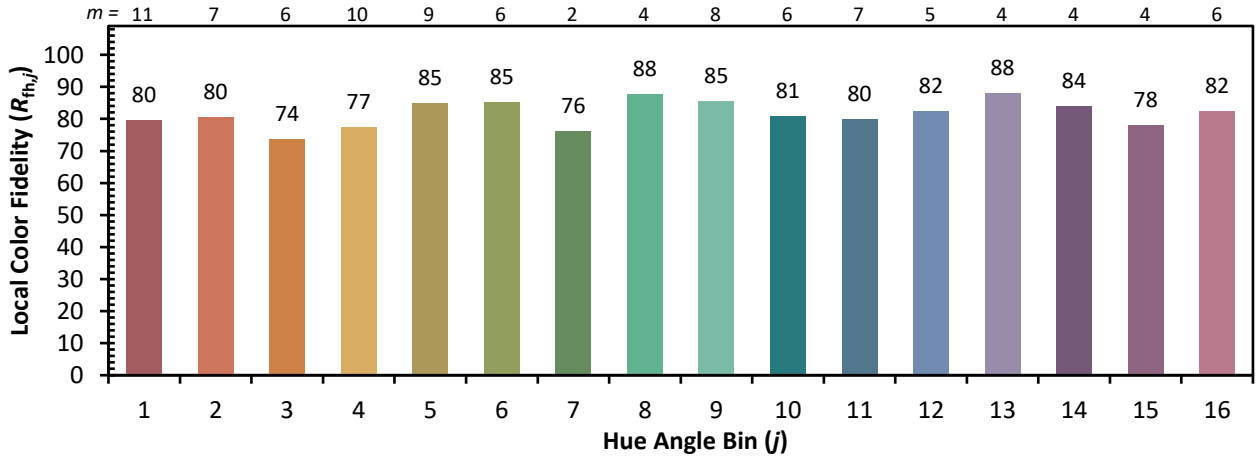
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Color Rendition by Hue-Angle Bin



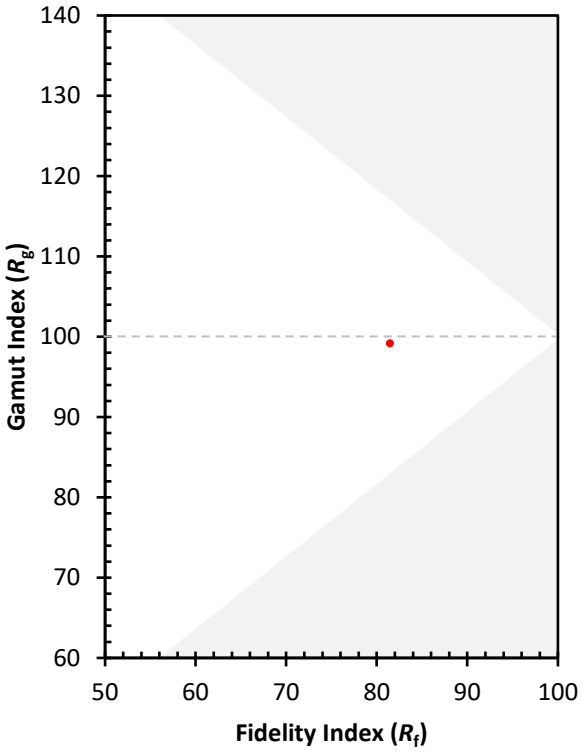


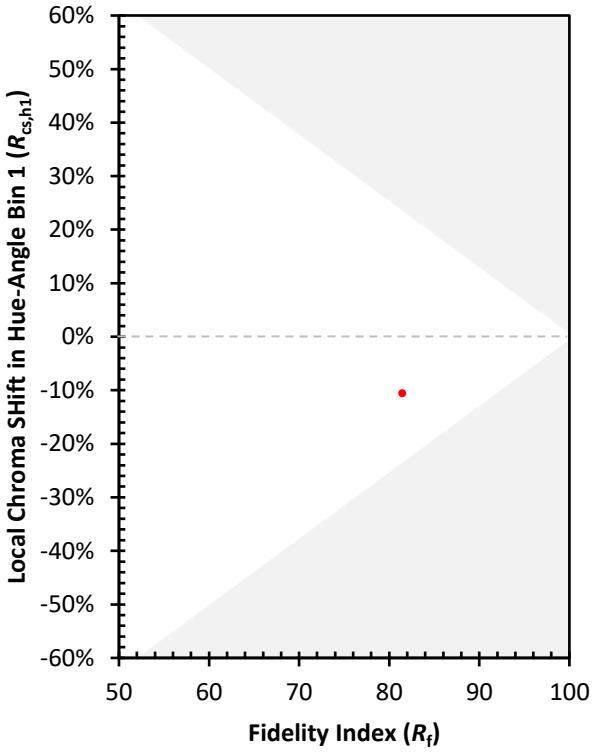


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Measure Comparisons





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