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

Scaled data based on original data using

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P1365403

Luminaire Tested: **GSS-SB4A-750-U-SLL-HSS**

Issue Date: 02/18/2026

Report Generated By 670245763

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

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1365403
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	02/18/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB4A-750-U-SLL-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 114W 70CRI 5000K FIXTURE w/ 90° Spill Light Eliminator LETT OPTIC OPTIC AND HOUSE SIDE SHIELD
Light Source:	(104) 5000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	13933.7 lumens
Efficiency:	N/A
Efficacy:	122.2 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B2 - U0 - G2

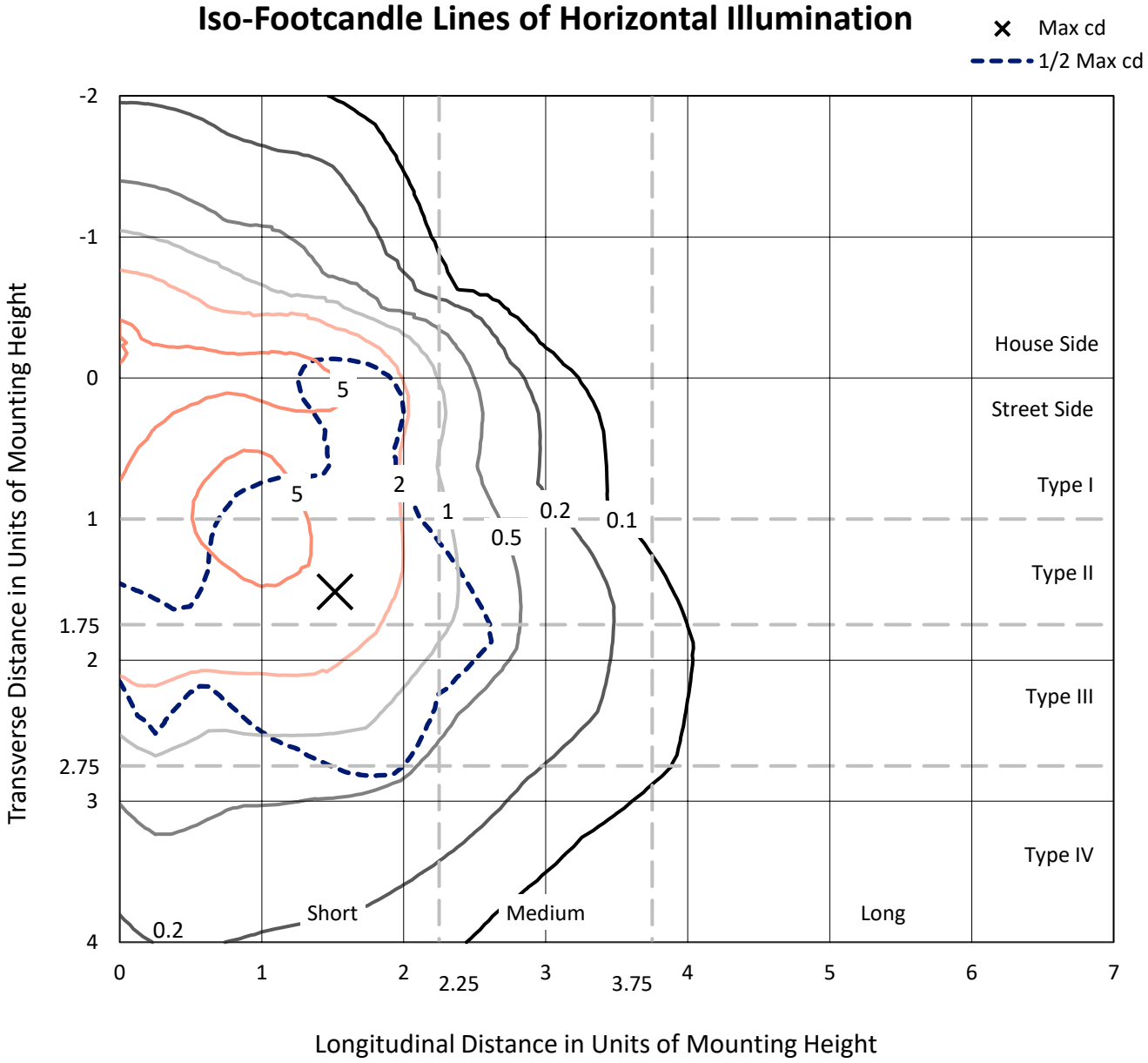
Input Watts (W):	114
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	8.2%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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

Scaled Data Report

REPORT NUMBER: P1365403
CATALOG NUMBER: GSS-SB4A-750-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination



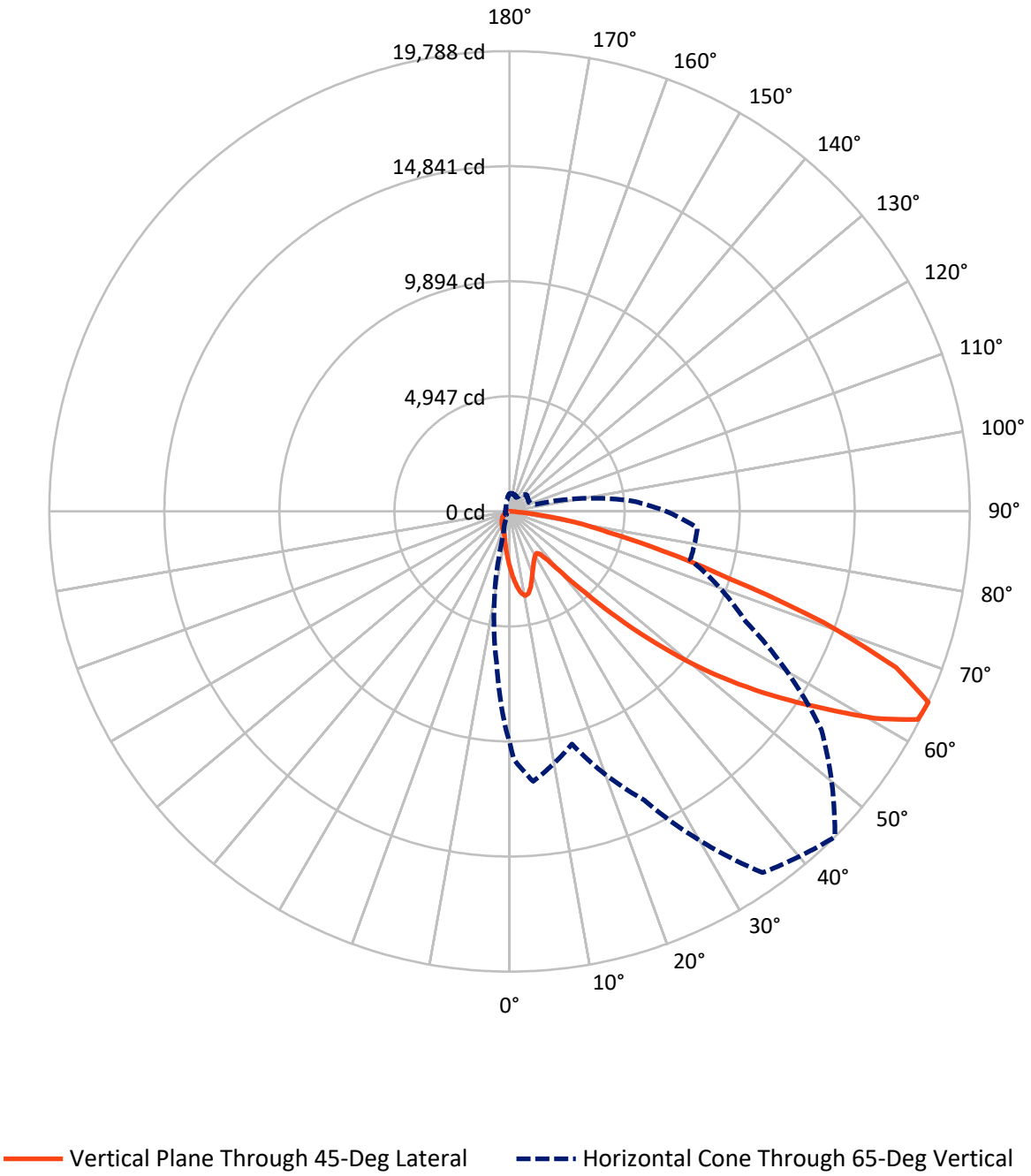
Based on 20 foot mounting height. Maximum calculated value = 8.8 fc
Type III - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1365403
CATALOG NUMBER: GSS-SB4A-750-U-SLL-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

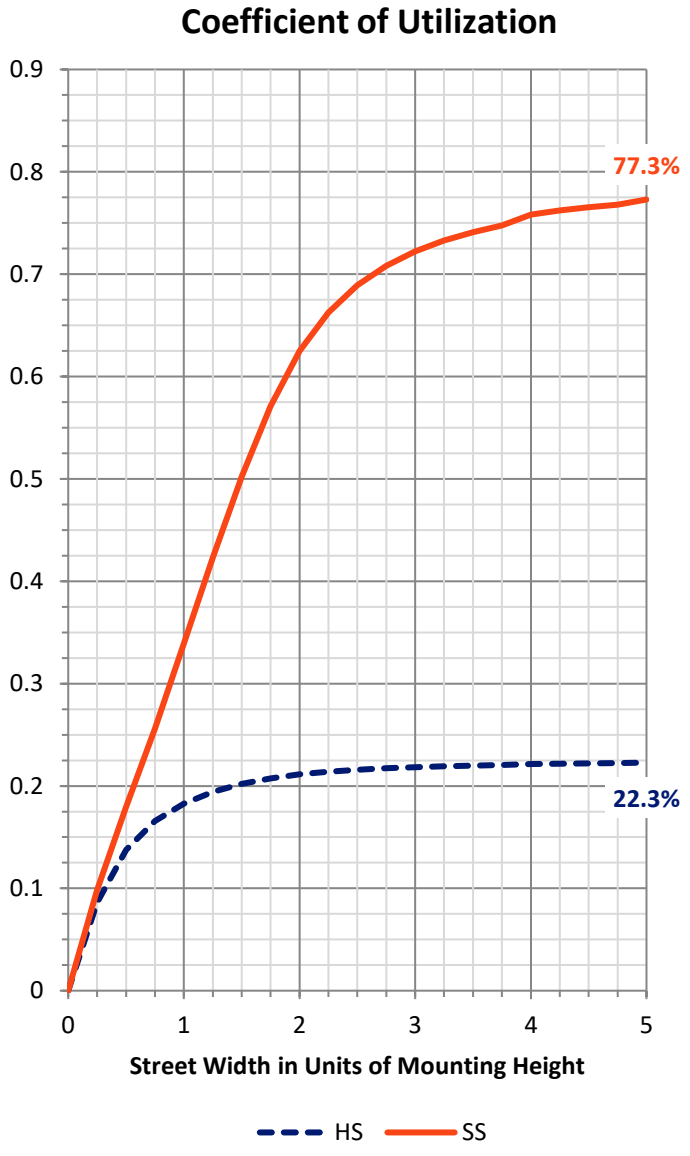
REPORT NUMBER: P1365403
CATALOG NUMBER: GSS-SB4A-750-U-SLL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3134.3	0.0	3134.3
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	10799.4	0.0	10799.4
	% Fixture	77.5	0.0	77.5
Total	Lumens	13933.7	0.0	13933.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.4	1.7
10°-20°	639.8	4.6
20°-30°	916.5	6.6
30°-40°	1149.6	8.3
40°-50°	1888.4	13.6
50°-60°	3409.5	24.5
60°-70°	3785.1	27.2
70°-80°	1710.9	12.3
80°-90°	202.5	1.5
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°	13933.7	100.0
0°-180°	13933.7	100.0



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

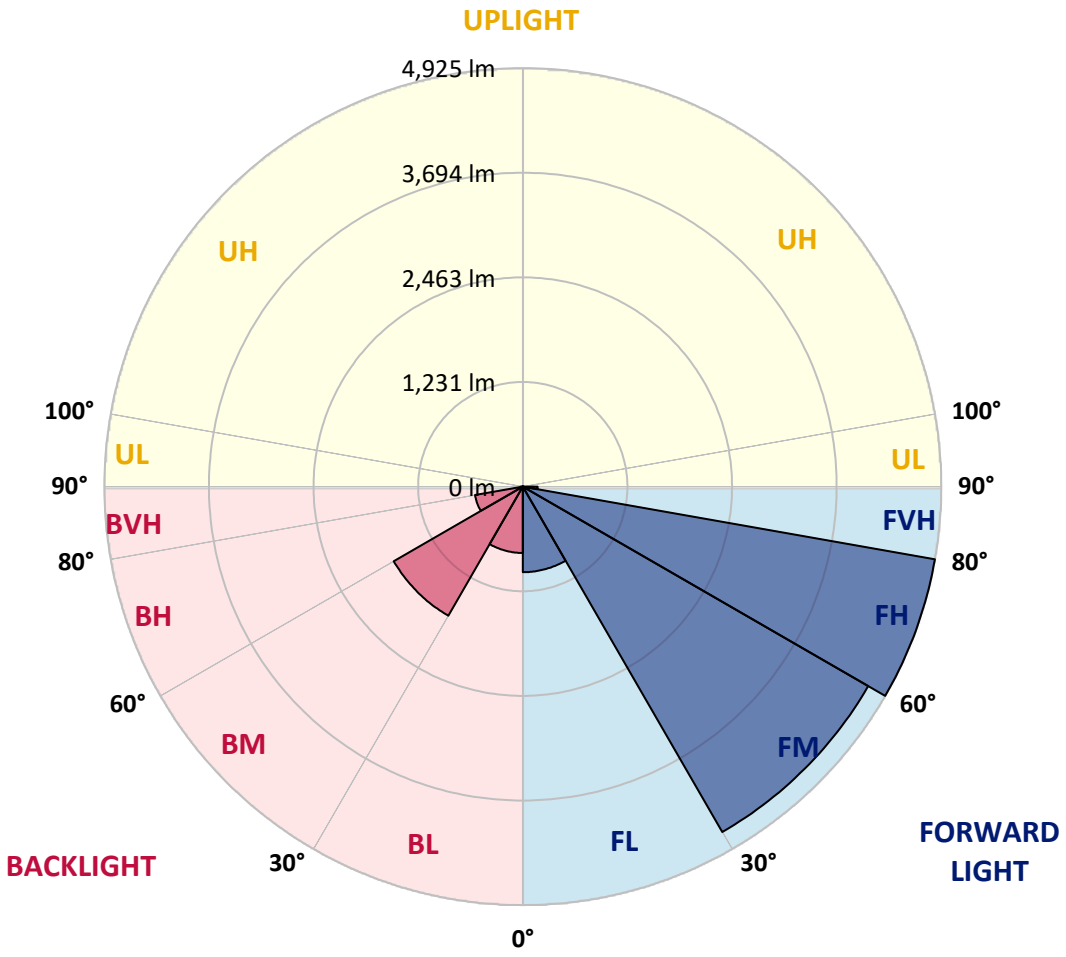
Scaled Data Report

REPORT NUMBER: P1365403
CATALOG NUMBER: GSS-SB4A-750-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1006.6	7.2			
FM	(30°-60°)	4693.8	33.7			
FH	(60°-80°)	4925.2	35.3			G2/5000
FVH	(80°-90°)	173.9	1.2			G2/225
BL	(0°-30°)	781.1	5.6	B2/1000		
BM	(30°-60°)	1753.7	12.6	B2/2500		
BH	(60°-80°)	570.9	4.1	B2/1000		G2/1000
BVH	(80°-90°)	28.6	0.2			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 III Short



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

Scaled Data Report

REPORT NUMBER: P1365403
CATALOG NUMBER: GSS-SB4A-750-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2407.2	2407.2	2407.2	2407.2	2407.2	2407.2	2407.2	2407.2	2407.2	2407.2	2407.2
2.5°	2650.9	2685.1	2680.9	2727.9	2770.7	2800.6	2826.2	2817.7	2796.3	2753.6	2723.6
5°	2928.9	2954.5	2997.3	3087.1	3155.5	3215.3	3206.8	3215.3	3151.2	3087.1	3010.1
7.5°	3168.3	3198.2	3258.1	3386.4	3471.9	3544.6	3536.0	3510.4	3437.7	3330.8	3215.3
10°	3317.9	3339.3	3403.5	3548.8	3647.2	3707.0	3685.7	3642.9	3548.8	3441.9	3305.1
12.5°	3382.1	3407.7	3463.3	3578.8	3642.9	3630.1	3621.5	3613.0	3565.9	3484.7	3360.7
15°	3390.6	3407.7	3450.5	3501.8	3476.1	3403.5	3386.4	3450.5	3510.4	3493.3	3390.6
17.5°	3390.6	3416.3	3424.8	3373.5	3241.0	3108.4	3091.3	3198.2	3365.0	3497.5	3437.7
20°	3403.5	3416.3	3399.2	3232.4	2984.4	2839.1	2809.1	2941.7	3189.7	3450.5	3484.7
22.5°	3420.6	3433.4	3360.7	3065.7	2774.9	2621.0	2603.9	2702.2	2993.0	3382.1	3536.0
25°	3454.8	3446.2	3335.1	2920.3	2591.1	2445.7	2420.1	2548.3	2830.5	3313.7	3621.5
27.5°	3497.5	3459.0	3300.8	2800.6	2458.5	2304.6	2287.5	2411.5	2693.7	3228.2	3694.2
30°	3553.1	3514.6	3296.6	2706.5	2360.2	2206.3	2184.9	2321.7	2599.6	3168.3	3796.8
32.5°	3630.1	3574.5	3300.8	2633.8	2304.6	2159.2	2146.4	2291.8	2561.1	3134.1	3903.7
35°	3732.7	3651.5	3317.9	2608.2	2321.7	2223.4	2253.3	2364.5	2599.6	3159.7	4079.0
37.5°	3861.0	3784.0	3403.5	2663.8	2509.8	2578.3	2655.2	2698.0	2783.5	3279.5	4361.2
40°	4074.7	3967.9	3531.7	2843.3	3014.4	3335.1	3484.7	3467.6	3270.9	3553.1	4758.9
42.5°	4374.0	4275.7	3792.6	3300.8	3856.7	4536.5	4788.8	4643.4	4049.1	3989.2	5413.0
45°	4831.5	4669.1	4143.2	3980.7	4874.3	5990.3	6558.9	6058.7	5036.8	4677.6	6345.1
47.5°	5417.3	5254.8	4690.5	4660.5	6011.6	7786.1	8461.6	7478.2	6015.9	5579.8	7461.1
50°	6358.0	6178.4	5494.3	5353.2	7268.7	9577.6	10479.8	8893.5	7012.2	6537.6	8837.9
52.5°	7649.2	7529.5	6768.4	6067.2	8393.2	11553.0	12331.1	10372.9	7781.8	7632.1	10338.7
55°	9449.3	9333.9	8427.4	6862.5	9457.9	13532.6	14161.1	11719.7	8453.1	8914.8	11907.8
57.5°	11488.8	11681.2	10697.8	7922.9	10578.1	15127.5	16004.0	12942.6	9359.5	10629.4	13652.3
60°	12818.6	13425.7	13301.7	9774.3	12318.3	17111.4	18064.9	14580.2	10685.0	11890.7	13613.9
62.5°	11664.1	12271.3	13220.5	11920.7	13994.4	18907.2	19711.0	16303.3	12001.9	10885.9	11433.2
65°	9898.3	10655.1	11655.6	10355.8	13699.4	18962.8	19788.0	16367.4	11198.1	8046.9	8106.7
67.5°	8530.0	9201.3	10432.7	8812.2	12143.0	17269.6	17919.5	14601.5	9256.9	5336.1	5289.0
70°	7119.1	7734.8	9291.1	7845.9	10638.0	14883.7	14323.6	12275.6	7824.5	3544.6	2937.4
72.5°	6067.2	6635.9	8256.4	7050.6	8440.2	12061.8	9872.6	10184.7	6366.5	2253.3	2001.0
75°	5019.7	5541.3	7020.7	6383.6	6982.2	7525.2	6824.0	7234.5	5246.3	1911.2	1543.5
77.5°	3523.2	3848.1	4925.6	5079.5	5434.4	4455.3	4327.0	5066.7	3732.7	949.2	649.9
80°	1735.9	1936.9	2569.7	3022.9	2569.7	2526.9	2881.8	3373.5	1936.9	581.5	359.2
82.5°	778.2	923.6	1184.4	1830.0	927.8	1009.1	1274.2	1795.8	880.8	346.3	153.9
85°	124.0	136.8	230.9	307.9	252.3	389.1	372.0	350.6	188.1	94.1	42.8
87.5°	4.3	4.3	4.3	8.6	12.8	17.1	21.4	21.4	21.4	21.4	21.4
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: P1365403
CATALOG NUMBER: GSS-SB4A-750-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2407.2	2407.2	2407.2	2407.2	2407.2	2407.2	2407.2	2407.2	2407.2	2407.2	2407.2
2.5°	2715.1	2702.2	2638.1	2574.0	2518.4	2462.8	2407.2	2330.3	2270.4	2219.1	2197.7
5°	2971.6	2903.2	2804.9	2698.0	2603.9	2497.0	2394.4	2279.0	2184.9	2086.5	2035.2
7.5°	3146.9	3078.5	2916.0	2753.6	2638.1	2522.7	2415.8	2287.5	2163.5	2022.4	1945.4
10°	3228.2	3151.2	2975.9	2787.8	2646.7	2531.2	2432.9	2326.0	2202.0	2026.7	1924.1
12.5°	3283.7	3189.7	2988.7	2796.3	2655.2	2535.5	2441.4	2364.5	2291.8	2120.8	2001.0
15°	3317.9	3232.4	3022.9	2800.6	2642.4	2501.3	2411.5	2385.8	2398.7	2317.4	2172.1
17.5°	3369.3	3288.0	3065.7	2826.2	2621.0	2428.6	2330.3	2385.8	2501.3	2526.9	2411.5
20°	3437.7	3352.2	3121.3	2847.6	2556.9	2291.8	2197.7	2338.8	2531.2	2663.8	2599.6
22.5°	3514.6	3446.2	3185.4	2869.0	2462.8	2112.2	2069.4	2240.5	2445.7	2616.7	2621.0
25°	3608.7	3544.6	3275.2	2890.4	2334.5	1958.3	1966.8	2112.2	2274.7	2450.0	2479.9
27.5°	3737.0	3677.1	3386.4	2916.0	2202.0	1834.3	1877.0	1983.9	2095.1	2202.0	2244.7
30°	3878.1	3831.0	3518.9	2967.3	2078.0	1761.6	1787.2	1859.9	1949.7	2013.9	2035.2
32.5°	4070.5	3993.5	3642.9	2963.1	1983.9	1727.4	1701.7	1723.1	1795.8	1859.9	1864.2
35°	4309.9	4250.1	3771.2	2886.1	1898.4	1710.3	1620.5	1607.7	1650.4	1714.6	1710.3
37.5°	4660.5	4609.2	3980.7	2766.4	1791.5	1667.5	1535.0	1492.2	1522.2	1564.9	1577.7
40°	5186.4	5053.9	4220.1	2633.8	1684.6	1590.6	1432.4	1372.5	1393.9	1440.9	1449.5
42.5°	5900.5	5648.2	4540.8	2454.3	1582.0	1475.1	1329.7	1265.6	1278.4	1321.2	1329.7
45°	6815.5	6434.9	4981.2	2266.1	1500.8	1355.4	1222.9	1154.4	1167.3	1214.3	1235.7
47.5°	7884.4	7362.8	5443.0	2065.2	1453.7	1261.3	1116.0	1064.7	1094.6	1141.6	1150.2
50°	9145.7	8619.8	5738.0	1902.7	1423.8	1188.6	1017.6	996.2	1034.7	1073.2	1081.8
52.5°	10522.5	9774.3	5549.9	1770.1	1398.2	1163.0	949.2	957.8	987.7	1026.2	1039.0
55°	11860.8	10197.6	4925.6	1599.1	1368.2	1180.1	897.9	919.3	957.8	987.7	996.2
57.5°	12733.1	9842.7	3967.9	1419.5	1334.0	1192.9	872.2	889.3	932.1	966.3	970.6
60°	11972.0	9064.5	2971.6	1265.6	1261.3	1171.5	863.7	838.0	897.9	927.8	932.1
62.5°	9808.5	7414.1	1898.4	1120.2	1124.5	1124.5	859.4	752.5	829.5	855.1	850.9
65°	*6738.5*	*5242.0*	*1175.8*	*915.0*	*957.8*	*1021.9*	*833.8*	*662.7*	*752.5*	*778.2*	*769.6*
67.5°	4429.6	3330.8	726.9	705.5	786.7	885.1	782.5	594.3	675.6	692.7	667.0
70°	2402.9	1569.2	478.9	461.8	615.7	696.9	662.7	534.5	602.9	620.0	594.3
72.5°	1586.3	902.2	337.8	337.8	483.2	487.4	543.0	478.9	534.5	551.6	525.9
75°	1192.9	581.5	235.2	260.8	307.9	380.5	389.1	401.9	453.2	474.6	448.9
77.5°	547.3	213.8	141.1	192.4	213.8	290.7	248.0	299.3	337.8	346.3	325.0
80°	316.4	119.7	94.1	124.0	136.8	239.4	145.4	179.6	239.4	252.3	226.6
82.5°	132.5	59.9	64.1	77.0	81.2	132.5	102.6	115.4	158.2	153.9	136.8
85°	38.5	38.5	42.8	47.0	47.0	77.0	72.7	68.4	72.7	72.7	59.9
87.5°	25.7	25.7	25.7	29.9	29.9	34.2	38.5	42.8	42.8	42.8	38.5
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: P1365403
CATALOG NUMBER: GSS-SB4A-750-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2407.2	2407.2	2407.2	2407.2	2407.2	2407.2	2407.2	2407.2	2407.2	2407.2	2407.2
2.5°	2167.8	2129.3	2073.7	2065.2	2035.2	2013.9	2035.2	2056.6	2095.1	2099.4	2116.5
5°	1988.2	1898.4	1830.0	1753.0	1714.6	1710.3	1701.7	1727.4	1783.0	1817.2	1842.8
7.5°	1868.5	1706.0	1586.3	1479.4	1440.9	1411.0	1436.6	1432.4	1505.0	1535.0	1560.6
10°	1804.3	1577.7	1398.2	1265.6	1214.3	1184.4	1180.1	1188.6	1231.4	1261.3	1291.3
12.5°	1847.1	1526.4	1261.3	1107.4	1051.8	1017.6	987.7	987.7	996.2	1034.7	1047.5
15°	1988.2	1556.4	1197.2	1030.4	957.8	902.2	863.7	833.8	838.0	842.3	855.1
17.5°	2193.4	1633.3	1175.8	983.4	906.4	838.0	799.6	765.4	756.8	756.8	752.5
20°	2390.1	1693.2	1158.7	944.9	846.6	786.7	752.5	722.6	709.8	709.8	709.8
22.5°	2471.4	1744.5	1137.3	897.9	786.7	731.1	701.2	679.8	675.6	675.6	671.3
25°	2407.2	1727.4	1111.7	850.9	731.1	688.4	662.7	641.4	637.1	641.4	637.1
27.5°	2206.3	1667.5	1077.5	812.4	688.4	649.9	628.5	607.2	602.9	607.2	607.2
30°	1992.5	1564.9	1021.9	782.5	654.2	611.4	590.0	568.7	568.7	572.9	577.2
32.5°	1821.5	1462.3	957.8	744.0	615.7	577.2	555.8	534.5	534.5	543.0	543.0
35°	1676.1	1381.1	893.6	705.5	581.5	538.7	521.6	504.5	500.3	508.8	513.1
37.5°	1560.6	1308.4	825.2	667.0	547.3	508.8	491.7	470.3	466.1	474.6	483.2
40°	1440.9	1227.1	765.4	620.0	513.1	474.6	457.5	431.8	431.8	440.4	448.9
42.5°	1325.5	1154.4	726.9	577.2	478.9	436.1	419.0	397.6	397.6	406.2	414.7
45°	1231.4	1086.0	705.5	534.5	440.4	401.9	380.5	363.4	367.7	376.3	384.8
47.5°	1141.6	1013.3	709.8	513.1	414.7	363.4	342.1	329.2	337.8	350.6	359.2
50°	1073.2	962.0	714.0	478.9	380.5	333.5	312.1	303.6	316.4	329.2	337.8
52.5°	1030.4	910.7	688.4	436.1	354.9	303.6	290.7	290.7	303.6	312.1	320.7
55°	987.7	825.2	632.8	389.1	329.2	282.2	273.6	273.6	286.5	295.0	299.3
57.5°	953.5	735.4	568.7	350.6	299.3	260.8	260.8	260.8	265.1	269.4	277.9
60°	889.3	641.4	487.4	320.7	269.4	243.7	239.4	239.4	235.2	239.4	252.3
62.5°	778.2	538.7	414.7	286.5	243.7	222.3	218.1	205.2	192.4	196.7	205.2
65°	*658.5*	*427.6*	*346.3*	*248.0*	*209.5*	*196.7*	*192.4*	*171.0*	*153.9*	*158.2*	*171.0*
67.5°	525.9	320.7	290.7	213.8	179.6	166.8	166.8	153.9	141.1	141.1	149.6
70°	410.5	269.4	218.1	171.0	141.1	141.1	149.6	136.8	119.7	119.7	132.5
72.5°	333.5	218.1	175.3	132.5	111.2	119.7	124.0	111.2	98.3	98.3	106.9
75°	260.8	171.0	136.8	98.3	85.5	89.8	98.3	89.8	77.0	81.2	85.5
77.5°	179.6	115.4	89.8	72.7	64.1	68.4	68.4	64.1	59.9	59.9	64.1
80°	119.7	77.0	59.9	51.3	47.0	47.0	42.8	42.8	47.0	47.0	51.3
82.5°	85.5	55.6	47.0	38.5	29.9	29.9	34.2	34.2	38.5	38.5	42.8
85°	51.3	38.5	34.2	25.7	21.4	25.7	25.7	29.9	34.2	34.2	38.5
87.5°	38.5	29.9	25.7	21.4	17.1	17.1	21.4	21.4	25.7	29.9	29.9
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: P1365403
CATALOG NUMBER: GSS-SB4A-750-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2407.2	2407.2	2407.2	2407.2	2407.2	2407.2	2407.2	2407.2	2407.2	2407.2
2.5°	2159.2	2210.5	2283.2	2347.4	2424.3	2501.3	2574.0	2642.4	2646.7	2650.9
5°	1924.1	2026.7	2146.4	2291.8	2445.7	2595.4	2753.6	2881.8	2911.8	2928.9
7.5°	1663.3	1812.9	1996.8	2202.0	2432.9	2663.8	2886.1	3078.5	3151.2	3168.3
10°	1389.6	1573.5	1795.8	2060.9	2373.0	2680.9	2980.2	3215.3	3300.8	3317.9
12.5°	1145.9	1295.5	1552.1	1872.8	2249.0	2655.2	3014.4	3275.2	3360.7	3382.1
15°	936.4	1077.5	1316.9	1654.7	2078.0	2565.4	2988.7	3288.0	3373.5	3390.6
17.5°	773.9	863.7	1081.8	1449.5	1924.1	2450.0	2954.5	3296.6	3377.8	3390.6
20°	709.8	726.9	842.3	1201.5	1761.6	2364.5	2933.1	3309.4	3390.6	3403.5
22.5°	679.8	679.8	705.5	915.0	1535.0	2274.7	2924.6	3347.9	3407.7	3420.6
25°	649.9	649.9	658.5	718.3	1265.6	2163.5	2941.7	3416.3	3454.8	3454.8
27.5°	620.0	620.0	628.5	641.4	940.7	1979.7	2946.0	3493.3	3510.4	3497.5
30°	590.0	598.6	598.6	607.2	692.7	1748.8	2920.3	3578.8	3578.8	3553.1
32.5°	560.1	564.4	572.9	577.2	602.9	1449.5	2877.6	3685.7	3664.3	3630.1
35°	534.5	538.7	538.7	547.3	572.9	1158.7	2830.5	3831.0	3771.2	3732.7
37.5°	500.3	504.5	508.8	517.4	543.0	919.3	2762.1	3955.0	3912.3	3861.0
40°	470.3	474.6	478.9	487.4	513.1	791.0	2676.6	4143.2	4134.6	4074.7
42.5°	436.1	444.7	448.9	453.2	487.4	722.6	2616.7	4446.7	4446.7	4374.0
45°	406.2	414.7	414.7	423.3	470.3	662.7	2749.3	4865.8	4900.0	4831.5
47.5°	380.5	384.8	384.8	389.1	444.7	611.4	3104.2	5507.1	5464.4	5417.3
50°	354.9	363.4	354.9	359.2	423.3	641.4	3689.9	6328.0	6439.2	6358.0
52.5°	337.8	342.1	325.0	325.0	393.4	679.8	4168.8	7375.6	7747.6	7649.2
55°	316.4	320.7	299.3	299.3	346.3	590.0	4198.7	8568.5	9385.2	9449.3
57.5°	295.0	295.0	277.9	273.6	299.3	478.9	3724.1	9492.1	11343.5	11488.8
60°	269.4	265.1	256.5	248.0	273.6	440.4	2839.1	9368.1	12314.0	12818.6
62.5°	230.9	239.4	235.2	218.1	248.0	410.5	1851.4	8106.7	11219.5	11664.1
65°	*192.4*	*205.2*	*205.2*	*192.4*	*273.6*	*359.2*	*974.9*	*6490.5*	*9363.8*	*9898.3*
67.5°	171.0	179.6	175.3	166.8	243.7	226.6	470.3	4976.9	8017.0	8530.0
70°	149.6	158.2	145.4	136.8	196.7	162.5	277.9	3330.8	6618.8	7119.1
72.5°	124.0	132.5	119.7	106.9	145.4	124.0	183.9	2167.8	5511.4	6067.2
75°	102.6	106.9	98.3	85.5	106.9	98.3	128.3	1415.3	4609.2	5019.7
77.5°	72.7	81.2	77.0	64.1	77.0	68.4	89.8	808.1	3215.3	3523.2
80°	55.6	55.6	55.6	51.3	47.0	47.0	59.9	363.4	1560.6	1735.9
82.5°	47.0	47.0	42.8	38.5	34.2	29.9	34.2	106.9	735.4	778.2
85°	42.8	34.2	29.9	25.7	21.4	12.8	12.8	29.9	149.6	124.0
87.5°	25.7	21.4	17.1	8.6	4.3	4.3	0.0	4.3	4.3	4.3
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: SP1-2407-184-6

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-750-U-5WQ

Data in this report applies to families of products including GSS-SB1A-750-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

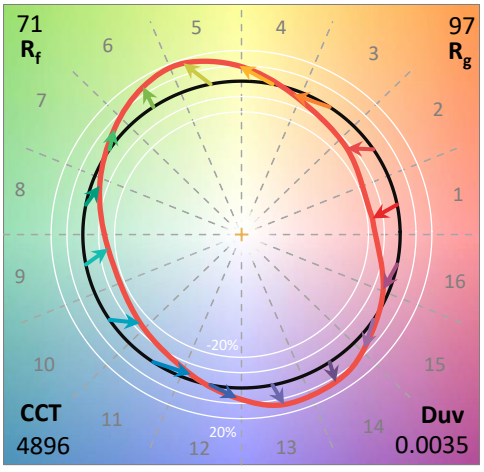
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-6
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-750-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 5000K CCT 26 LEDS

Spectral Parameters

CCT (K):	4896
CIE u':	0.2101
CIE v':	0.4901
Duv:	0.0035
CIE x:	0.3489
CIE y:	0.3618
CIE z:	0.2893
Peak Wavelength (nm):	443
Dominant Wavelength (nm):	570
Purity:	13.25435
Rf:	70.7
Rg:	96.8

CRI (Ra):	70.2
R1:	68.1
R2:	73.9
R3:	79.4
R4:	72.1
R5:	69.2
R6:	65.7
R7:	78.1
R8:	55.3
R9:	-35.1
R10:	39.3
R11:	71.1
R12:	43.8
R13:	68.1
R14:	88.4
R15:	59.7



Test Conditions

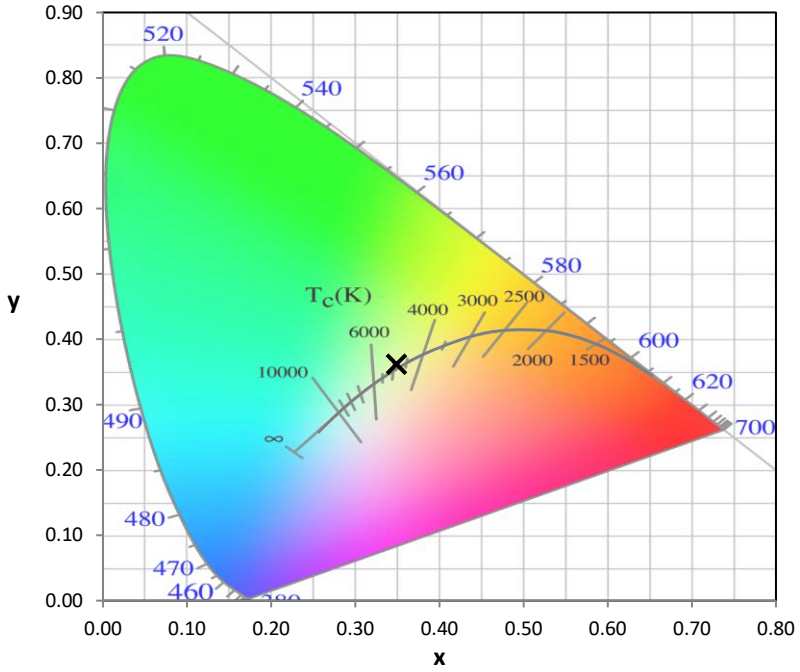
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-6

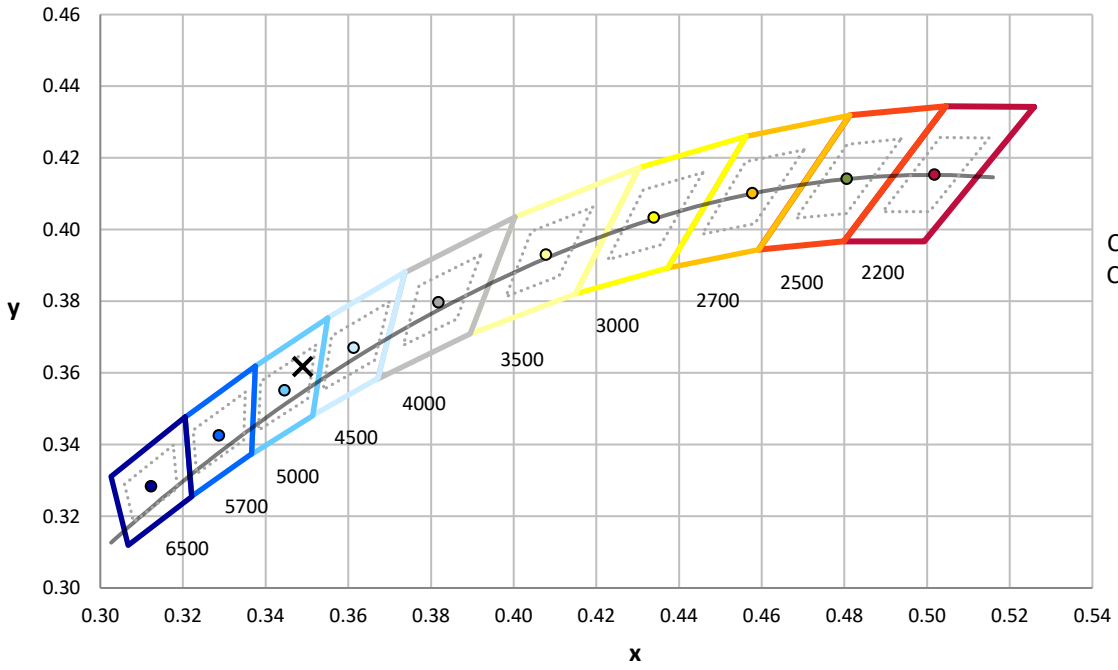
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-6

CIE 1931 Chromaticity Diagram



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

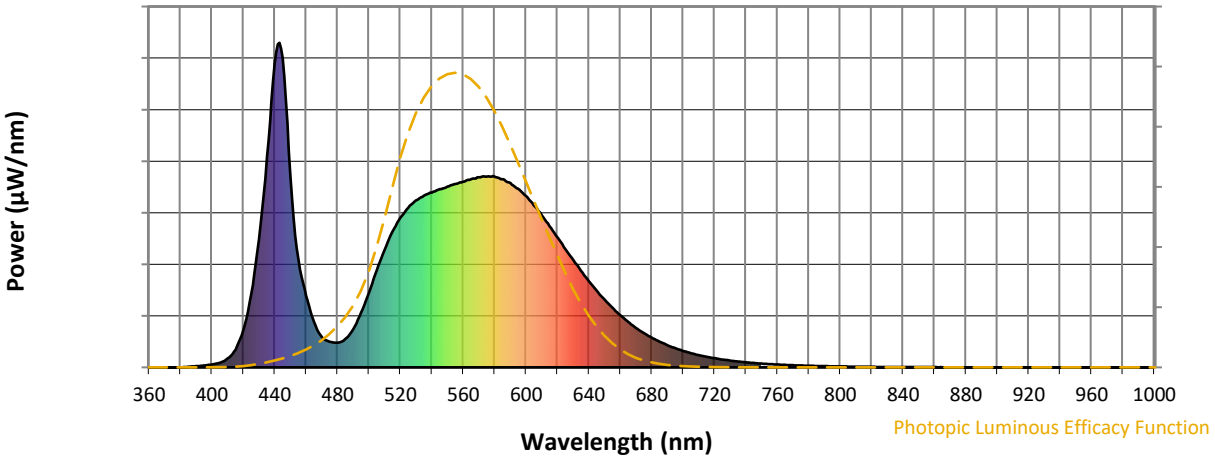


CCT = 4896K
CIE x = 0.3489
CIE y = 0.3618
Duv = 0.0035

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-6

Photopic Flux vs. Wavelength

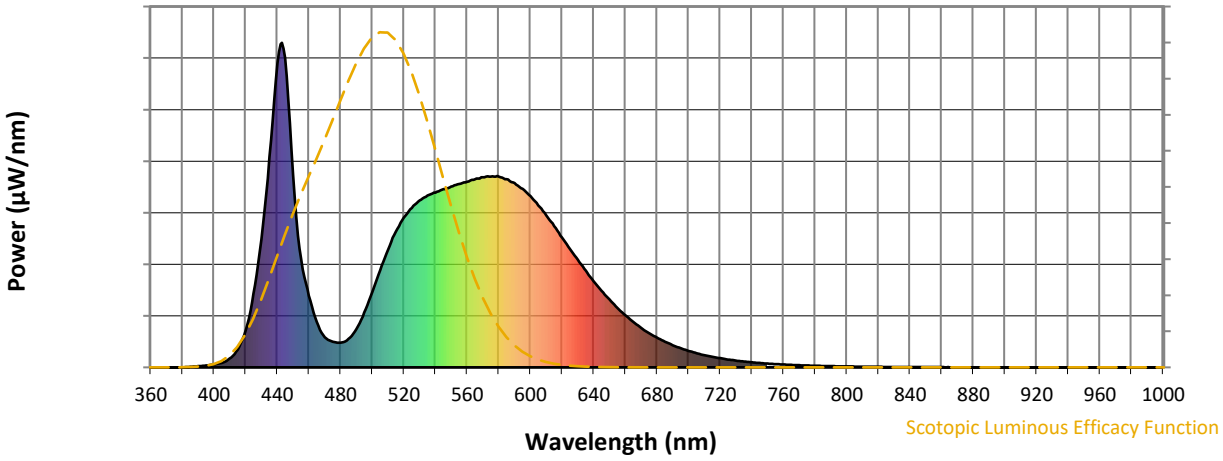


Photopic Lumens: NR

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	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-6

Scotopic Flux vs. Wavelength

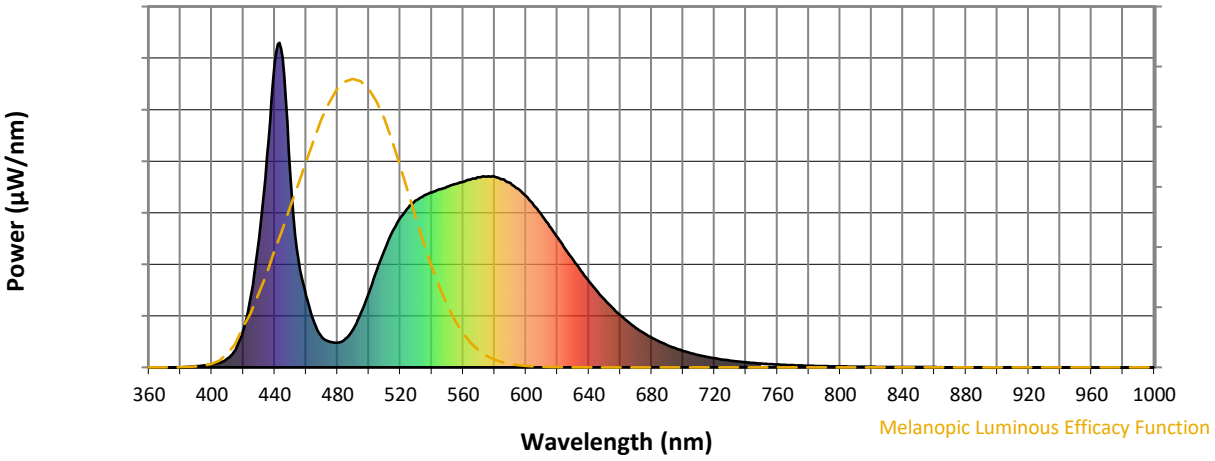


Scotopic Lumens: NR **S/P: 1.7**

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	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-6

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.37**

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	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

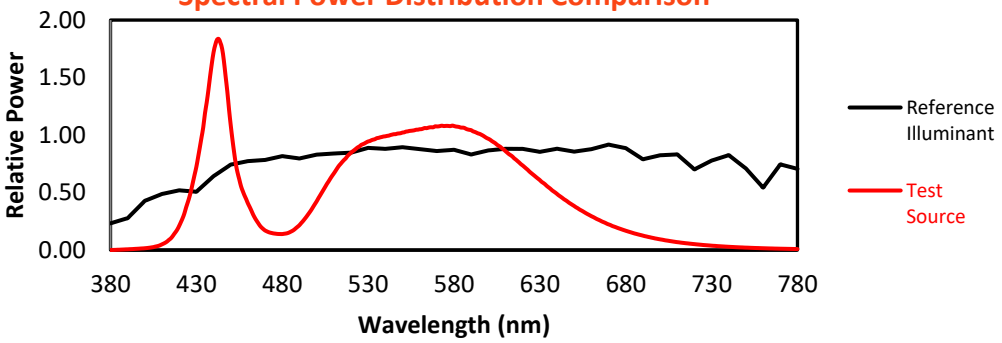
REPORT NUMBER: SP1-2407-184-6

TM-30-18

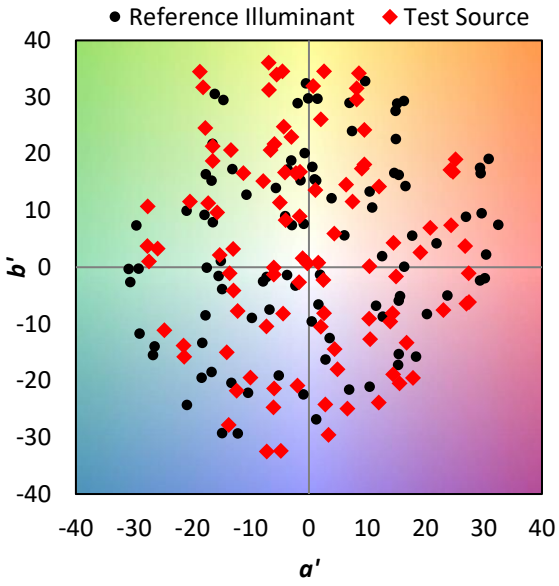
Summary

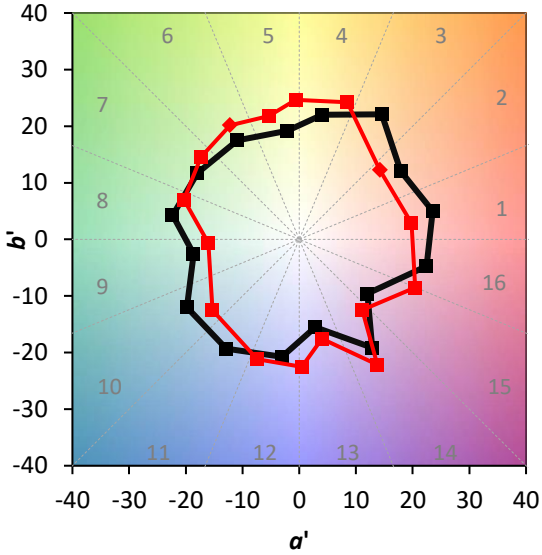
R_f = 70.7
R_g = 96.8
CIE R_a = 70.2
R_9 = -35.1

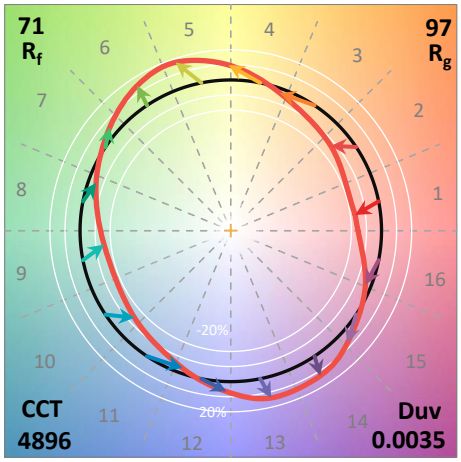
Spectral Power Distribution Comparison

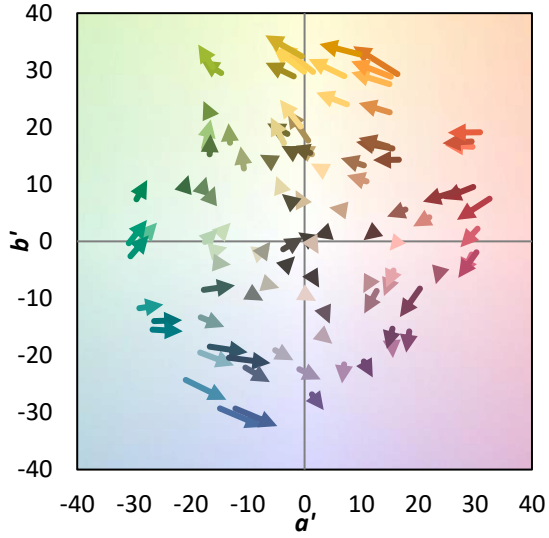


Color Vector Graphics







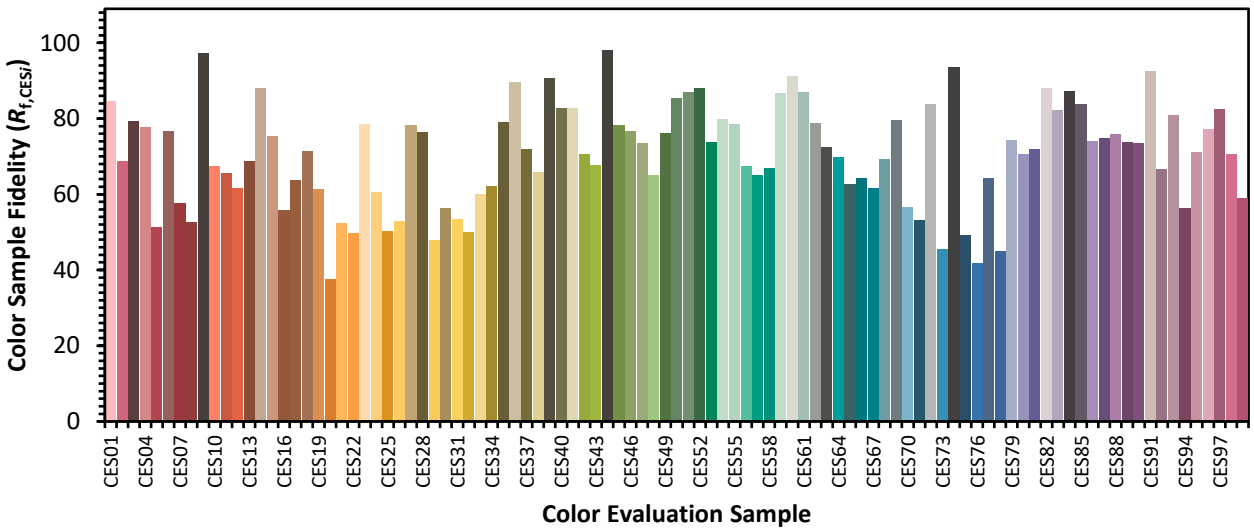


REPORT NUMBER: SP1-2407-184-6

TM-30-18

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

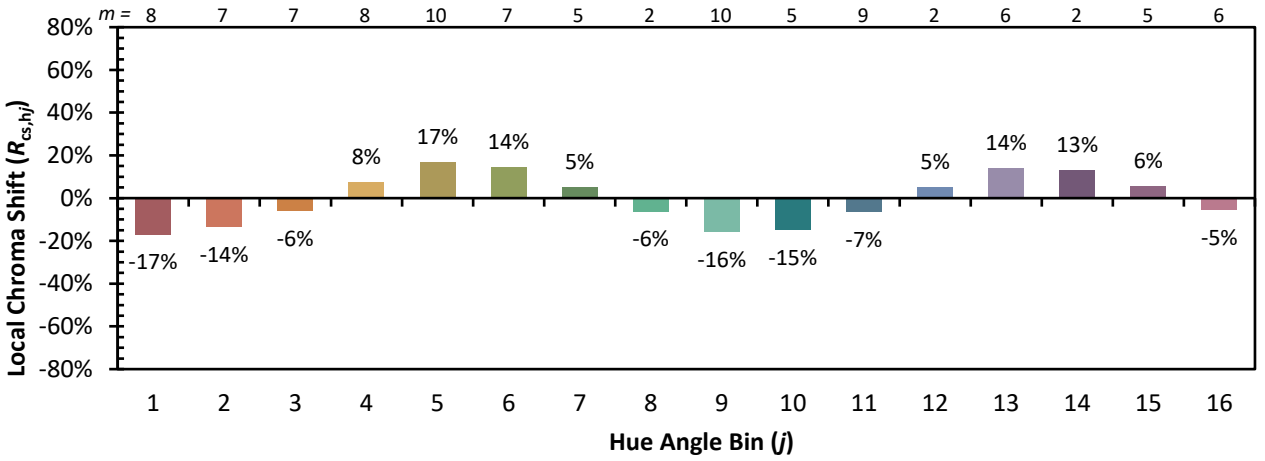
CES01 = 85	CES26 = 53	CES51 = 87	CES76 = 42
CES02 = 59	CES27 = 78	CES52 = 88	CES77 = 64
CES03 = 30	CES28 = 76	CES53 = 74	CES78 = 45
CES04 = 69	CES29 = 48	CES54 = 80	CES79 = 74
CES05 = 46	CES30 = 56	CES55 = 79	CES80 = 71
CES06 = 50	CES31 = 54	CES56 = 68	CES81 = 72
CES07 = 39	CES32 = 50	CES57 = 65	CES82 = 88
CES08 = 38	CES33 = 60	CES58 = 67	CES83 = 82
CES09 = 29	CES34 = 62	CES59 = 87	CES84 = 87
CES10 = 72	CES35 = 79	CES60 = 91	CES85 = 84
CES11 = 56	CES36 = 90	CES61 = 87	CES86 = 74
CES12 = 61	CES37 = 72	CES62 = 79	CES87 = 75
CES13 = 41	CES38 = 66	CES63 = 72	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 70	CES89 = 74
CES15 = 70	CES40 = 83	CES65 = 63	CES90 = 73
CES16 = 46	CES41 = 83	CES66 = 64	CES91 = 92
CES17 = 49	CES42 = 70	CES67 = 62	CES92 = 67
CES18 = 55	CES43 = 68	CES68 = 69	CES93 = 81
CES19 = 71	CES44 = 98	CES69 = 80	CES94 = 56
CES20 = 64	CES45 = 78	CES70 = 56	CES95 = 71
CES21 = 85	CES46 = 77	CES71 = 53	CES96 = 77
CES22 = 77	CES47 = 73	CES72 = 84	CES97 = 82
CES23 = 91	CES48 = 65	CES73 = 46	CES98 = 71
CES24 = 90	CES49 = 76	CES74 = 94	CES99 = 59
CES25 = 71	CES50 = 85	CES75 = 49	

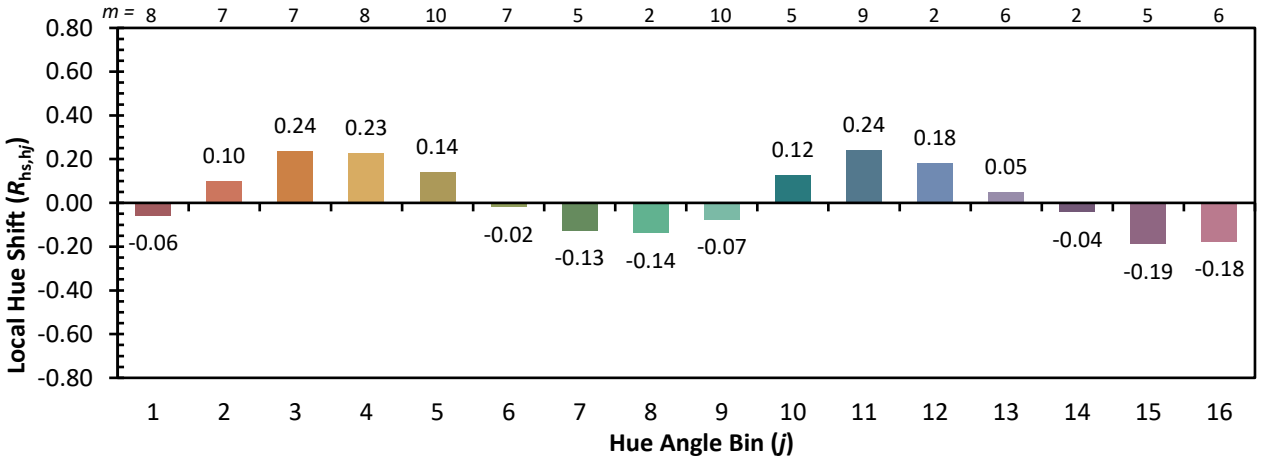


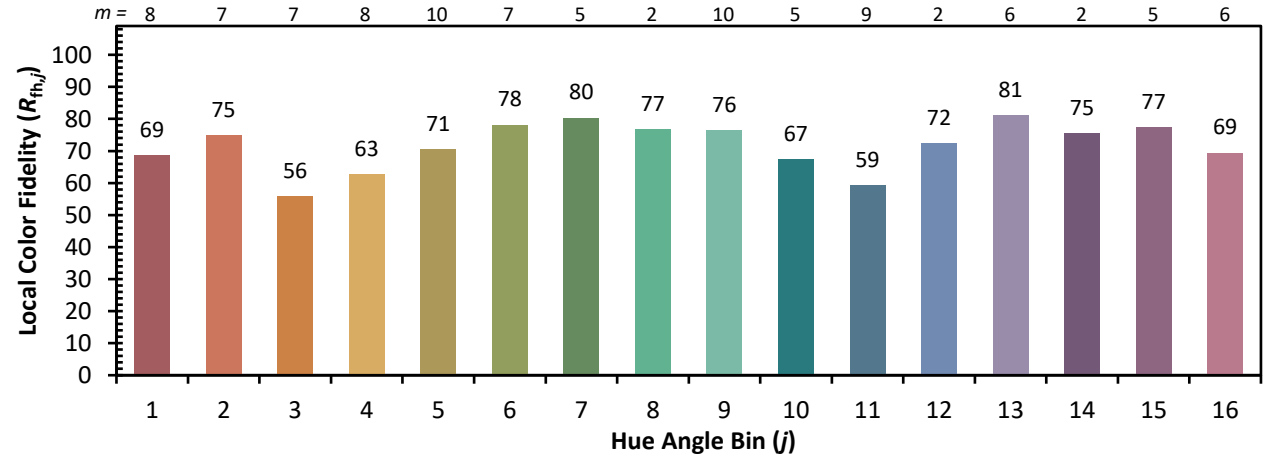
REPORT NUMBER: SP1-2407-184-6

TM-30-18

Color Rendition by Hue-Angle Bin



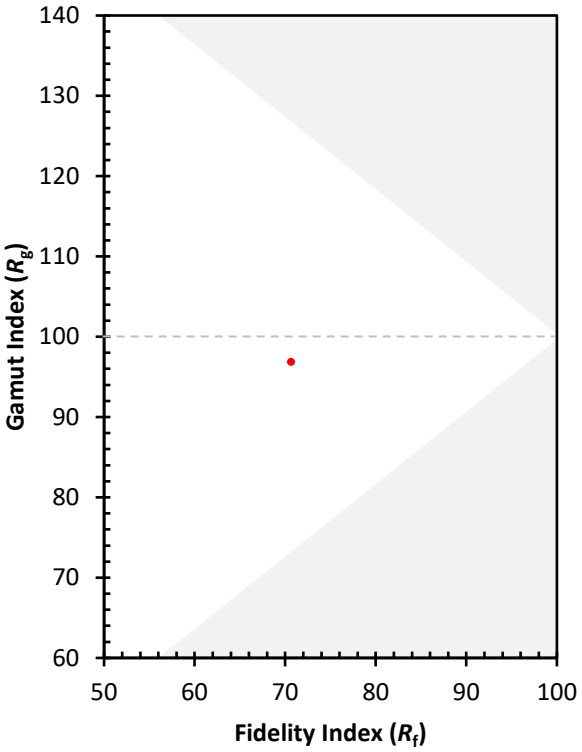


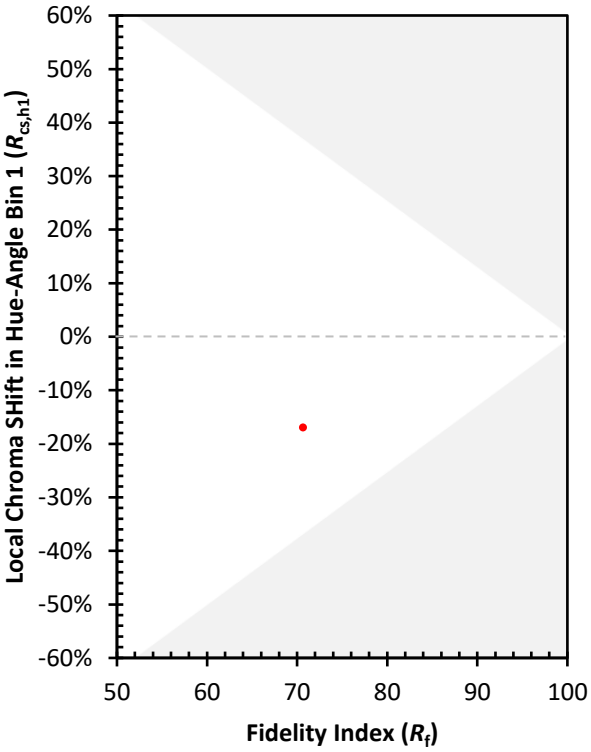


REPORT NUMBER: SP1-2407-184-6

TM-30-18

Measure Comparisons





(END OF REPORT)