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: P1364684

Luminaire Tested: **GSS-SB4B-827-U-SLR-HSS**

Issue Date: 02/18/2026

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Report Generated By 670245763

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1364684
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	02/18/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB4B-827-U-SLR-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 148W 80CRI 2700K FIXTURE w/ 90° Spill Light Eliminator RIGHT OPTIC AND HOUSE SIDE SHIELD
Light Source:	(104) 2700K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Luminaire Equipment:

Sample No.	Condition	Description
a	good	reflector
b	good	lens
c	good	housing
d	good	cord

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	14420.3 lumens
Efficiency:	N/A
Efficacy:	97.4 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B2 - U0 - G3

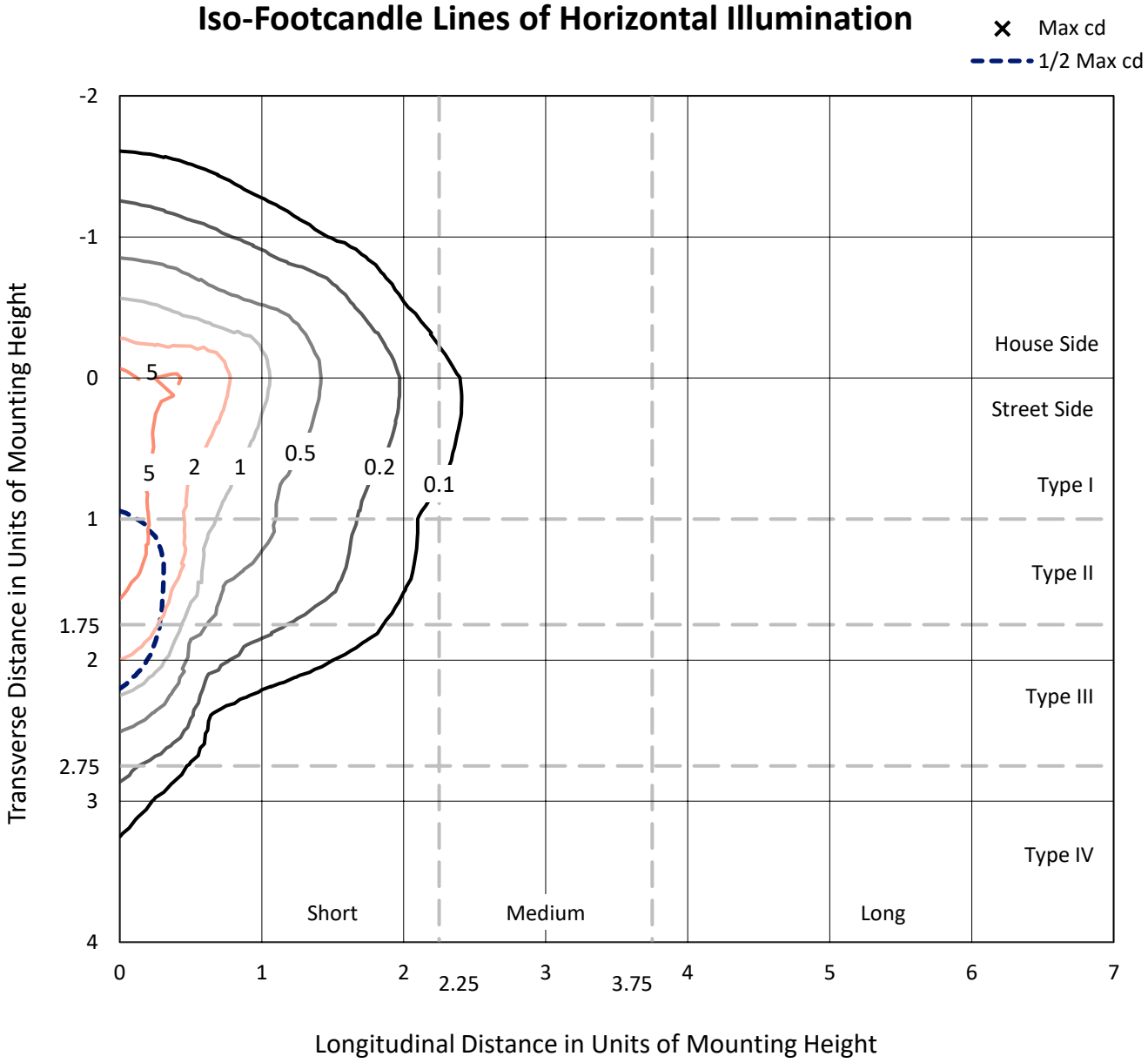
Input Watts (W):	148
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	13.6%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



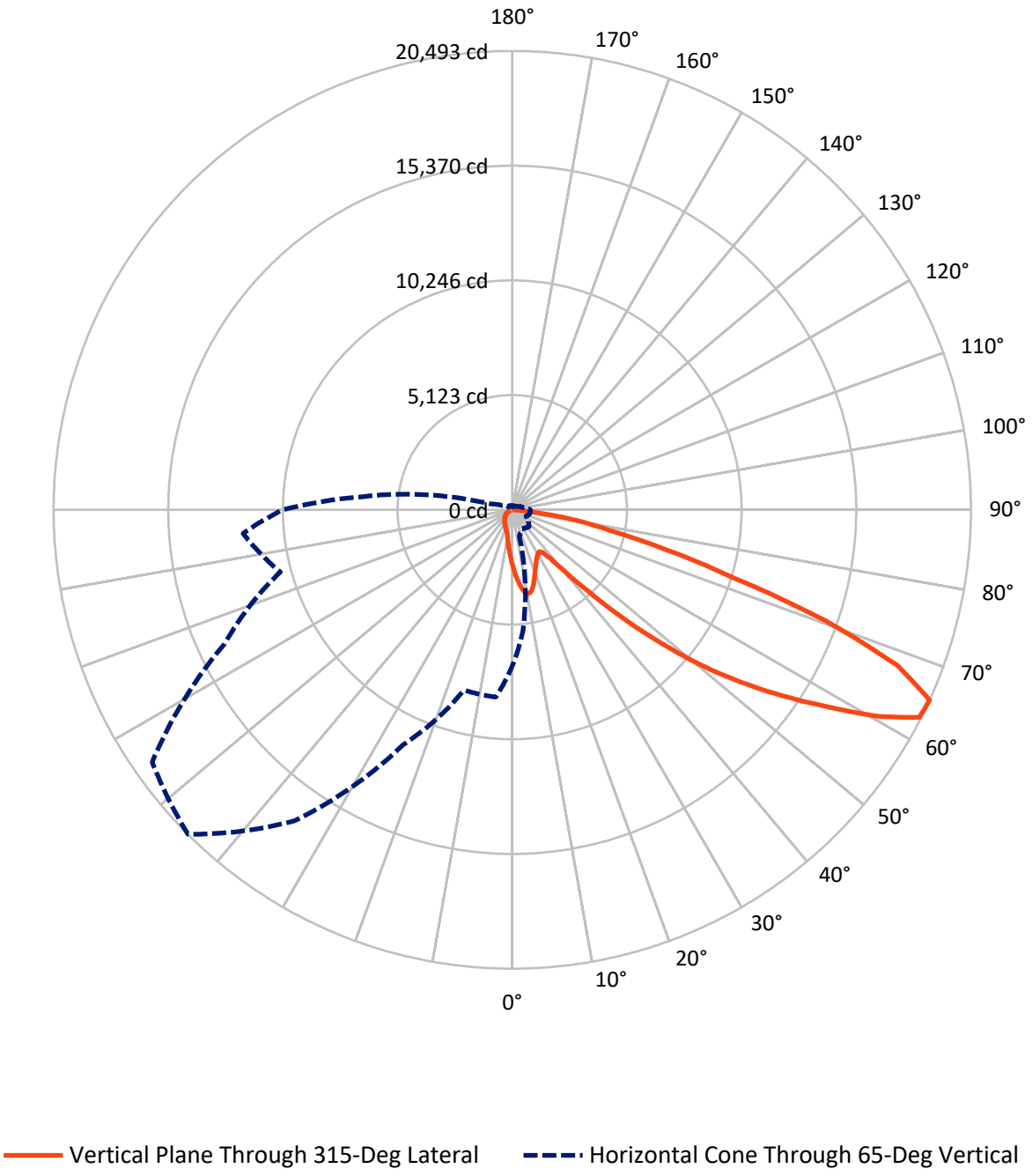
Based on 20 foot mounting height. Maximum calculated value = 7.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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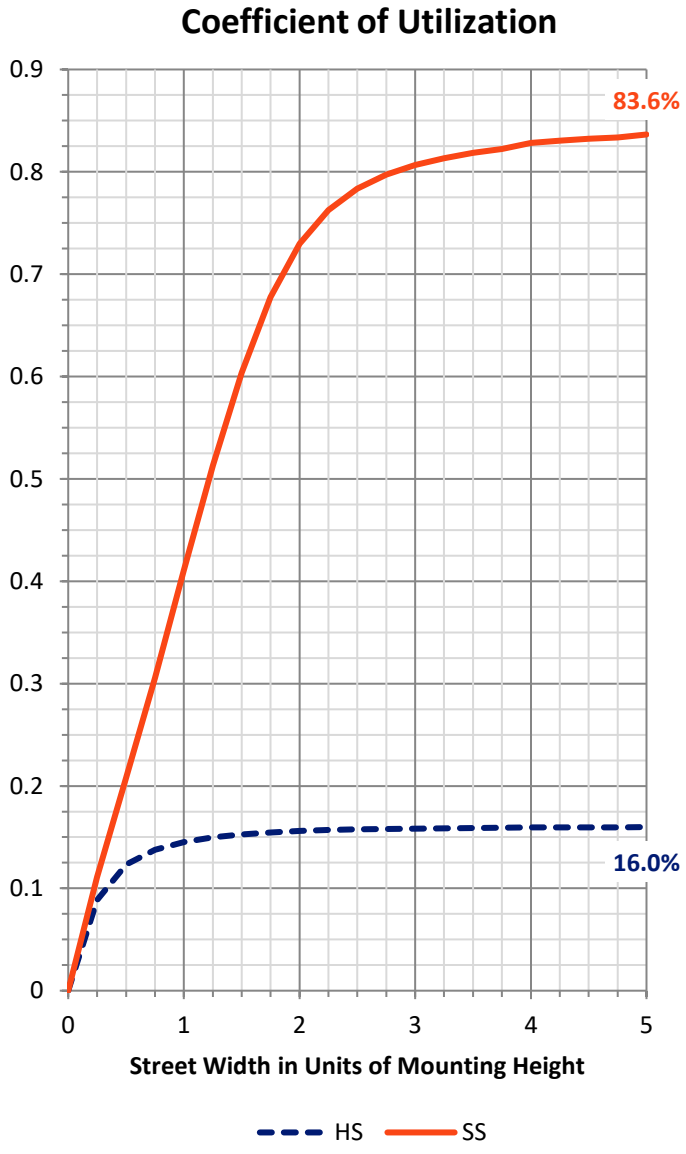
REPORT NUMBER: P1364684
CATALOG NUMBER: GSS-SB4B-827-U-SLR-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2331.1	0.0	2331.1
	% Fixture	16.2	0.0	16.2
Street Side	Lumens	12089.2	0.0	12089.2
	% Fixture	83.8	0.0	83.8
Total	Lumens	14420.3	0.0	14420.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.6	1.7
10°-20°	662.6	4.6
20°-30°	949.0	6.6
30°-40°	1190.4	8.3
40°-50°	1955.4	13.6
50°-60°	3528.7	24.5
60°-70°	3916.1	27.2
70°-80°	1769.3	12.3
80°-90°	209.2	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°	14420.3	100.0
0°-180°	14420.3	100.0



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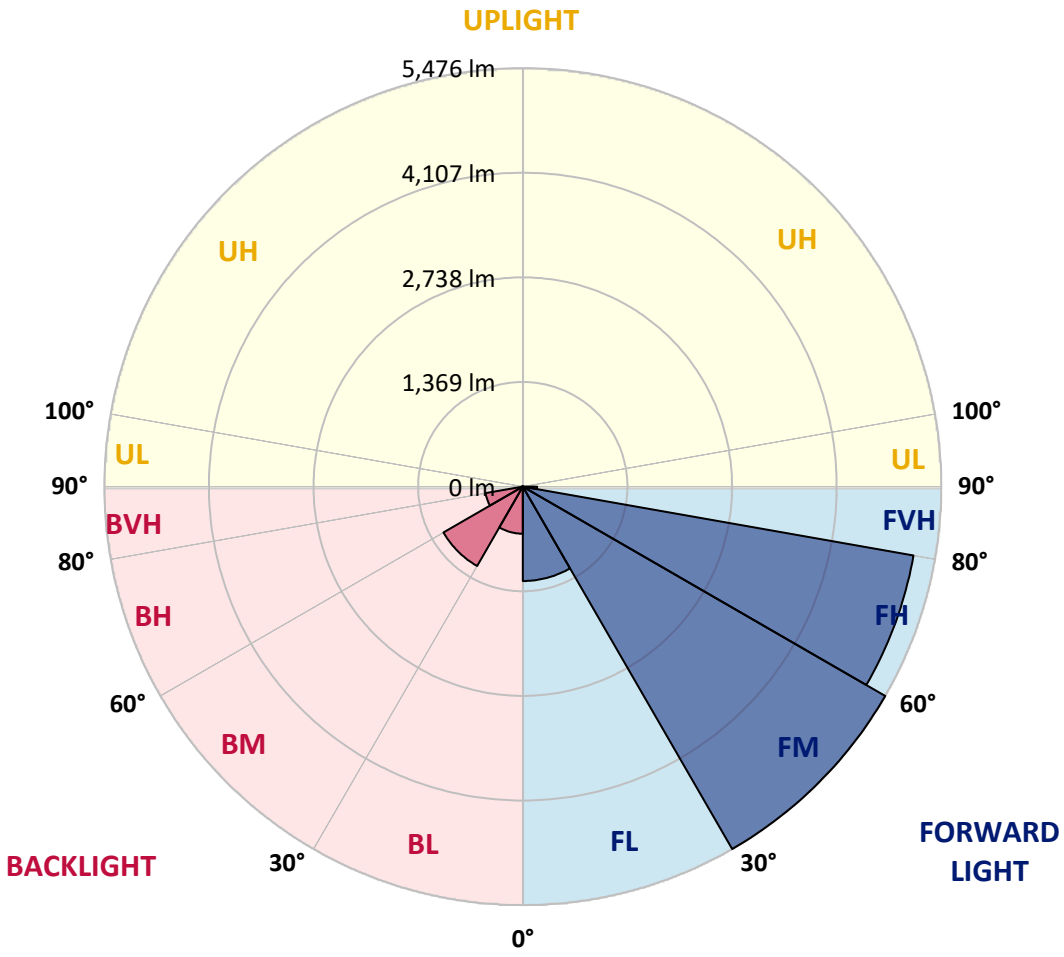
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1235.2	8.6			
FM	(30°-60°)	5475.8	38.0			
FH	(60°-80°)	5190.4	36.0			G3/7500
FVH	(80°-90°)	187.8	1.3			G2/225
BL	(0°-30°)	616.0	4.3	B2/1000		
BM	(30°-60°)	1198.7	8.3	B2/2500		
BH	(60°-80°)	495.1	3.4	B1/500		G1/500
BVH	(80°-90°)	21.4	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0
2.5°	2811.8	2809.1	2798.5	2732.1	2665.7	2608.1	2550.5	2493.0	2413.3	2351.3	2298.1
5°	3077.5	3063.3	3006.6	2904.8	2794.1	2696.7	2586.0	2479.7	2360.1	2262.7	2160.9
7.5°	3259.0	3244.8	3188.2	3019.9	2851.6	2732.1	2612.5	2501.8	2369.0	2240.6	2094.4
10°	3343.1	3327.2	3263.4	3081.9	2887.1	2740.9	2621.4	2519.5	2408.8	2280.4	2098.9
12.5°	3400.7	3381.2	3303.3	3095.2	2895.9	2749.8	2625.8	2528.4	2448.7	2373.4	2196.3
15°	3436.1	3418.4	3347.6	3130.6	2900.3	2736.5	2590.4	2497.4	2470.8	2484.1	2400.0
17.5°	3489.3	3472.4	3405.1	3174.9	2926.9	2714.4	2515.1	2413.3	2470.8	2590.4	2617.0
20°	3560.1	3542.4	3471.6	3232.4	2949.1	2648.0	2373.4	2276.0	2422.1	2621.4	2758.7
22.5°	3639.8	3625.7	3569.0	3298.9	2971.2	2550.5	2187.4	2143.2	2320.3	2532.8	2709.9
25°	3737.2	3724.0	3670.8	3391.9	2993.3	2417.7	2028.0	2036.9	2187.4	2355.7	2537.3
27.5°	3870.1	3857.7	3808.1	3507.0	3019.9	2280.4	1899.6	1943.9	2054.6	2169.7	2280.4
30°	4016.2	4006.5	3967.5	3644.3	3073.0	2152.0	1824.3	1850.9	1926.2	2019.2	2085.6
32.5°	4215.5	4199.5	4135.8	3772.7	3068.6	2054.6	1788.9	1762.3	1784.5	1859.8	1926.2
35°	4463.4	4451.0	4401.4	3905.5	2988.9	1966.0	1771.2	1678.2	1664.9	1709.2	1775.6
37.5°	4826.5	4815.9	4773.4	4122.5	2864.9	1855.3	1726.9	1589.7	1545.4	1576.4	1620.7
40°	5371.2	5343.7	5233.9	4370.4	2727.7	1744.6	1647.2	1483.4	1421.4	1443.5	1492.2
42.5°	6110.7	6058.4	5849.4	4702.5	2541.7	1638.4	1527.7	1377.1	1310.7	1324.0	1368.3
45°	7058.3	6979.4	6664.2	5158.6	2346.8	1554.2	1403.7	1266.4	1195.6	1208.8	1257.6
47.5°	8165.3	8057.2	7625.0	5636.9	2138.7	1505.5	1306.3	1155.7	1102.6	1133.6	1182.3
50°	9471.5	9362.6	8926.9	5942.4	1970.5	1474.5	1231.0	1053.9	1031.7	1071.6	1111.4
52.5°	10897.3	10742.4	10122.4	5747.6	1833.2	1448.0	1204.4	983.0	991.9	1022.9	1062.7
55°	12283.3	11938.8	10560.8	5101.1	1656.1	1417.0	1222.1	929.9	952.0	991.9	1022.9
57.5°	13186.6	12588.0	10193.3	4109.2	1470.1	1381.5	1235.4	903.3	921.0	965.3	1000.7
60°	12398.4	11796.2	9387.4	3077.5	1310.7	1306.3	1213.3	894.5	867.9	929.9	960.9
62.5°	10157.9	9661.9	7678.2	1966.0	1160.1	1164.6	1164.6	890.0	779.3	859.0	885.6
65°	*6978.5*	*6668.6*	*5428.7*	*1217.7*	*947.6*	*991.9*	*1058.3*	*863.5*	*686.3*	*779.3*	*805.9*
67.5°	4587.4	4359.8	3449.4	752.8	730.6	814.8	916.6	810.3	615.5	699.6	717.3
70°	2488.5	2315.9	1625.1	495.9	478.2	637.6	721.8	686.3	553.5	624.3	642.1
72.5°	1642.8	1501.1	934.3	349.8	349.8	500.4	504.8	562.4	495.9	553.5	571.2
75°	1235.4	1108.8	602.2	243.5	270.1	318.8	394.1	402.9	416.2	469.4	491.5
77.5°	566.8	497.7	221.4	146.1	199.3	221.4	301.1	256.8	310.0	349.8	358.7
80°	327.7	286.9	124.0	97.4	128.4	141.7	248.0	150.6	186.0	248.0	261.3
82.5°	137.3	122.2	62.0	66.4	79.7	84.1	137.3	106.3	119.6	163.8	159.4
85°	39.9	39.9	39.9	44.3	48.7	48.7	79.7	75.3	70.8	75.3	75.3
87.5°	26.6	26.6	26.6	26.6	31.0	31.0	35.4	39.9	44.3	44.3	44.3
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°	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0
2.5°	2276.0	2245.0	2205.1	2147.6	2138.7	2107.7	2085.6	2107.7	2129.9	2169.7	2174.2
5°	2107.7	2059.0	1966.0	1895.2	1815.5	1775.6	1771.2	1762.3	1788.9	1846.5	1881.9
7.5°	2014.7	1935.0	1766.8	1642.8	1532.1	1492.2	1461.2	1487.8	1483.4	1558.7	1589.7
10°	1992.6	1868.6	1633.9	1448.0	1310.7	1257.6	1226.6	1222.1	1231.0	1275.3	1306.3
12.5°	2072.3	1912.9	1580.8	1306.3	1146.9	1089.3	1053.9	1022.9	1022.9	1031.7	1071.6
15°	2249.4	2059.0	1611.8	1239.8	1067.2	991.9	934.3	894.5	863.5	867.9	872.3
17.5°	2497.4	2271.6	1691.5	1217.7	1018.4	938.7	867.9	828.0	792.6	783.8	783.8
20°	2692.2	2475.3	1753.5	1200.0	978.6	876.7	814.8	779.3	748.3	735.0	735.0
22.5°	2714.4	2559.4	1806.6	1177.9	929.9	814.8	757.2	726.2	704.1	699.6	699.6
25°	2568.2	2493.0	1788.9	1151.3	881.2	757.2	712.9	686.3	664.2	659.8	664.2
27.5°	2324.7	2284.9	1726.9	1115.9	841.3	712.9	673.1	650.9	628.8	624.3	628.8
30°	2107.7	2063.5	1620.7	1058.3	810.3	677.5	633.2	611.1	588.9	588.9	593.4
32.5°	1930.6	1886.3	1514.4	991.9	770.5	637.6	597.8	575.6	553.5	553.5	562.4
35°	1771.2	1735.8	1430.2	925.5	730.6	602.2	557.9	540.2	522.5	518.1	526.9
37.5°	1633.9	1616.2	1355.0	854.6	690.8	566.8	526.9	509.2	487.1	482.7	491.5
40°	1501.1	1492.2	1270.8	792.6	642.1	531.4	491.5	473.8	447.2	447.2	456.1
42.5°	1377.1	1372.7	1195.6	752.8	597.8	495.9	451.7	433.9	411.8	411.8	420.7
45°	1279.7	1275.3	1124.7	730.6	553.5	456.1	416.2	394.1	376.4	380.8	389.7
47.5°	1191.1	1182.3	1049.4	735.0	531.4	429.5	376.4	354.2	341.0	349.8	363.1
50°	1120.3	1111.4	996.3	739.5	495.9	394.1	345.4	323.2	314.4	327.7	341.0
52.5°	1076.0	1067.2	943.2	712.9	451.7	367.5	314.4	301.1	301.1	314.4	323.2
55°	1031.7	1022.9	854.6	655.3	402.9	341.0	292.2	283.4	283.4	296.7	305.5
57.5°	1005.2	987.4	761.6	588.9	363.1	310.0	270.1	270.1	270.1	274.5	279.0
60°	965.3	921.0	664.2	504.8	332.1	279.0	252.4	248.0	248.0	243.5	248.0
62.5°	881.2	805.9	557.9	429.5	296.7	252.4	230.3	225.8	212.5	199.3	203.7
65°	*797.0*	*681.9*	*442.8*	*358.7*	*256.8*	*217.0*	*203.7*	*199.3*	*177.1*	*159.4*	*163.8*
67.5°	690.8	544.6	332.1	301.1	221.4	186.0	172.7	172.7	159.4	146.1	146.1
70°	615.5	425.1	279.0	225.8	177.1	146.1	146.1	155.0	141.7	124.0	124.0
72.5°	544.6	345.4	225.8	181.5	137.3	115.1	124.0	128.4	115.1	101.8	101.8
75°	464.9	270.1	177.1	141.7	101.8	88.6	93.0	101.8	93.0	79.7	84.1
77.5°	336.5	186.0	119.6	93.0	75.3	66.4	70.8	70.8	66.4	62.0	62.0
80°	234.7	124.0	79.7	62.0	53.1	48.7	48.7	44.3	44.3	48.7	48.7
82.5°	141.7	88.6	57.6	48.7	39.9	31.0	31.0	35.4	35.4	39.9	39.9
85°	62.0	53.1	39.9	35.4	26.6	22.1	26.6	26.6	31.0	35.4	35.4
87.5°	39.9	39.9	31.0	26.6	22.1	17.7	17.7	22.1	22.1	26.6	31.0
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°	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0
2.5°	2191.9	2236.1	2289.3	2364.6	2431.0	2510.7	2590.4	2665.7	2736.5	2745.4	2776.4
5°	1908.5	1992.6	2098.9	2222.9	2373.4	2532.8	2687.8	2851.6	2984.5	3033.2	3104.0
7.5°	1616.2	1722.5	1877.5	2067.9	2280.4	2519.5	2758.7	2988.9	3188.2	3281.2	3374.1
10°	1337.3	1439.1	1629.5	1859.8	2134.3	2457.5	2776.4	3086.3	3329.9	3436.1	3524.7
12.5°	1084.9	1186.7	1341.7	1607.4	1939.5	2329.1	2749.8	3121.7	3391.9	3502.6	3586.7
15°	885.6	969.7	1115.9	1363.8	1713.6	2152.0	2656.8	3095.2	3405.1	3511.4	3573.4
17.5°	779.3	801.5	894.5	1120.3	1501.1	1992.6	2537.3	3059.8	3414.0	3511.4	3546.8
20°	735.0	735.0	752.8	872.3	1244.3	1824.3	2448.7	3037.6	3427.3	3524.7	3520.3
22.5°	695.2	704.1	704.1	730.6	947.6	1589.7	2355.7	3028.8	3467.1	3542.4	3480.4
25°	659.8	673.1	673.1	681.9	743.9	1310.7	2240.6	3046.5	3538.0	3577.8	3453.8
27.5°	628.8	642.1	642.1	650.9	664.2	974.2	2050.2	3050.9	3617.7	3622.1	3418.4
30°	597.8	611.1	619.9	619.9	628.8	717.3	1811.1	3024.3	3706.2	3679.7	3414.0
32.5°	562.4	580.1	584.5	593.4	597.8	624.3	1501.1	2980.1	3816.9	3759.4	3418.4
35°	531.4	553.5	557.9	557.9	566.8	593.4	1200.0	2931.3	3967.5	3865.7	3436.1
37.5°	500.4	518.1	522.5	526.9	535.8	562.4	952.0	2860.5	4095.9	3998.5	3524.7
40°	464.9	487.1	491.5	495.9	504.8	531.4	819.2	2771.9	4290.7	4219.9	3657.5
42.5°	429.5	451.7	460.5	464.9	469.4	504.8	748.3	2709.9	4605.1	4529.9	3927.6
45°	398.5	420.7	429.5	429.5	438.4	487.1	686.3	2847.2	5039.1	5003.7	4290.7
47.5°	372.0	394.1	398.5	398.5	402.9	460.5	633.2	3214.7	5703.3	5610.3	4857.5
50°	349.8	367.5	376.4	367.5	372.0	438.4	664.2	3821.4	6553.5	6584.5	5690.0
52.5°	332.1	349.8	354.2	336.5	336.5	407.4	704.1	4317.3	7638.3	7921.7	7009.5
55°	310.0	327.7	332.1	310.0	310.0	358.7	611.1	4348.3	8873.7	9785.9	8727.6
57.5°	287.8	305.5	305.5	287.8	283.4	310.0	495.9	3856.8	9830.2	11898.1	11078.9
60°	261.3	279.0	274.5	265.7	256.8	283.4	456.1	2940.2	9701.8	13275.2	13775.5
62.5°	212.5	239.1	248.0	243.5	225.8	256.8	425.1	1917.3	8395.5	12079.6	13691.4
65°	*177.1*	*199.3*	*212.5*	*212.5*	*199.3*	*283.4*	*372.0*	*1009.6*	*6721.7*	*10250.8*	*12070.8*
67.5°	155.0	177.1	186.0	181.5	172.7	252.4	234.7	487.1	5154.2	8833.9	10804.3
70°	137.3	155.0	163.8	150.6	141.7	203.7	168.3	287.8	3449.4	7372.6	9622.1
72.5°	110.7	128.4	137.3	124.0	110.7	150.6	128.4	190.4	2245.0	6283.3	8550.5
75°	88.6	106.3	110.7	101.8	88.6	110.7	101.8	132.8	1465.7	5198.5	7270.8
77.5°	66.4	75.3	84.1	79.7	66.4	79.7	70.8	93.0	836.9	3648.7	5101.1
80°	53.1	57.6	57.6	57.6	53.1	48.7	48.7	62.0	376.4	1797.8	2661.2
82.5°	44.3	48.7	48.7	44.3	39.9	35.4	31.0	35.4	110.7	805.9	1226.6
85°	39.9	44.3	35.4	31.0	26.6	22.1	13.3	13.3	31.0	128.4	239.1
87.5°	31.0	26.6	22.1	17.7	8.9	4.4	4.4	0.0	4.4	4.4	4.4
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: P1364684
CATALOG NUMBER: GSS-SB4B-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0	2493.0
2.5°	2825.1	2869.4	2900.3	2926.9	2918.1	2895.9	2851.6	2820.6	2813.6	2811.8
5°	3197.0	3267.9	3329.9	3321.0	3329.9	3263.4	3197.0	3117.3	3085.4	3077.5
7.5°	3507.0	3595.5	3670.8	3662.0	3635.4	3560.1	3449.4	3329.9	3273.2	3259.0
10°	3675.2	3777.1	3839.1	3816.9	3772.7	3675.2	3564.5	3422.9	3359.1	3343.1
12.5°	3706.2	3772.7	3759.4	3750.5	3741.7	3693.0	3608.8	3480.4	3416.7	3400.7
15°	3626.5	3600.0	3524.7	3507.0	3573.4	3635.4	3617.7	3511.4	3451.2	3436.1
17.5°	3493.7	3356.4	3219.2	3201.5	3312.2	3484.8	3622.1	3560.1	3503.4	3489.3
20°	3347.6	3090.8	2940.2	2909.2	3046.5	3303.3	3573.4	3608.8	3569.9	3560.1
22.5°	3174.9	2873.8	2714.4	2696.7	2798.5	3099.6	3502.6	3662.0	3644.3	3639.8
25°	3024.3	2683.4	2532.8	2506.3	2639.1	2931.3	3431.7	3750.5	3739.9	3737.2
27.5°	2900.3	2546.1	2386.7	2369.0	2497.4	2789.6	3343.1	3825.8	3861.2	3870.1
30°	2802.9	2444.3	2284.9	2262.7	2404.4	2692.2	3281.2	3932.1	3999.4	4016.2
32.5°	2727.7	2386.7	2236.1	2222.9	2373.4	2652.4	3245.7	4042.8	4180.9	4215.5
35°	2701.1	2404.4	2302.6	2333.6	2448.7	2692.2	3272.3	4224.3	4415.6	4463.4
37.5°	2758.7	2599.2	2670.1	2749.8	2794.1	2882.6	3396.3	4516.6	4764.5	4826.5
40°	2944.6	3121.7	3453.8	3608.8	3591.1	3387.4	3679.7	4928.4	5282.6	5371.2
42.5°	3418.4	3994.1	4698.1	4959.4	4808.8	4193.3	4131.3	5605.9	6009.7	6110.7
45°	4122.5	5047.9	6203.6	6792.6	6274.5	5216.2	4844.2	6571.2	6960.8	7058.3
47.5°	4826.5	6225.8	8063.4	8763.0	7744.6	6230.2	5778.6	7726.9	8077.6	8165.3
50°	5543.9	7527.6	9918.7	10853.1	9210.3	7261.9	6770.4	9152.7	9407.8	9471.5
52.5°	6283.3	8692.2	11964.5	12770.4	10742.4	8059.0	7904.0	10706.9	10859.3	10897.3
55°	7107.0	9794.8	14014.7	14665.6	12137.2	8754.2	9232.4	12332.0	12293.0	12283.3
57.5°	8205.1	10954.9	15666.3	16574.0	13403.6	9692.9	11008.0	14138.6	13377.0	13186.6
60°	10122.4	12757.1	17720.9	18708.4	15099.5	11065.6	12314.3	14098.8	12738.5	12398.4
62.5°	12345.3	14492.9	19580.7	20413.1	16884.0	12429.4	11273.7	11840.5	10494.4	10157.9
65°	10724.6	14187.4	19638.2	20492.8	16950.4	11597.0	8333.5	8395.5	7261.9	6978.5
67.5°	9126.1	12575.6	17884.7	18557.8	15121.7	9586.6	5526.2	5477.5	4765.4	4587.4
70°	8125.4	11016.9	15413.9	14833.8	12712.8	8103.3	3670.8	3042.0	2599.2	2488.5
72.5°	7301.8	8740.9	12491.4	10224.3	10547.5	6593.3	2333.6	2072.3	1728.7	1642.8
75°	6611.0	7230.9	7793.3	7067.1	7492.2	5433.2	1979.3	1598.5	1308.0	1235.4
77.5°	5260.5	5628.0	4614.0	4481.1	5247.2	3865.7	983.0	673.1	588.0	566.8
80°	3130.6	2661.2	2617.0	2984.5	3493.7	2005.9	602.2	372.0	336.5	327.7
82.5°	1895.2	960.9	1045.0	1319.5	1859.8	912.2	358.7	159.4	141.7	137.3
85°	318.8	261.3	402.9	385.2	363.1	194.8	97.4	44.3	40.7	39.9
87.5°	8.9	13.3	17.7	22.1	22.1	22.1	22.1	22.1	25.7	26.6
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: SP1-2407-184-8

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-827-U-5WQ

Data in this report applies to families of products including GSS-SB1A-827-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

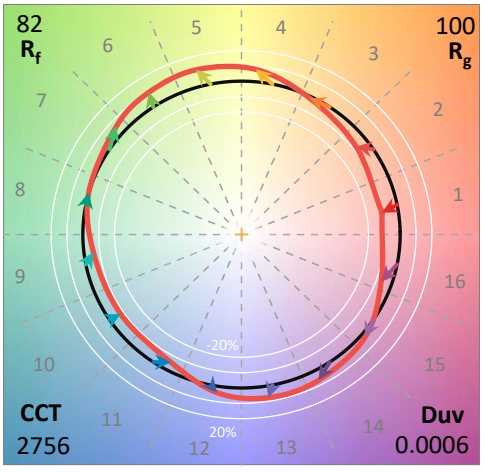
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-8
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-827-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 2700K CCT 26 LEDS

Spectral Parameters

CCT (K):	2756
CIE u':	0.2599
CIE v':	0.5271
Duv:	0.0006
CIE x:	0.4563
CIE y:	0.4112
CIE z:	0.1325
Peak Wavelength (nm):	609
Dominant Wavelength (nm):	583
Purity:	60.41121
Rf:	82.2
Rg:	99.9

CRI (Ra):	82.9
R1:	81.6
R2:	88.8
R3:	96.0
R4:	83.4
R5:	81.4
R6:	87.0
R7:	84.0
R8:	60.8
R9:	10.8
R10:	74.8
R11:	84.3
R12:	72.1
R13:	82.9
R14:	97.3
R15:	73.7



Test Conditions

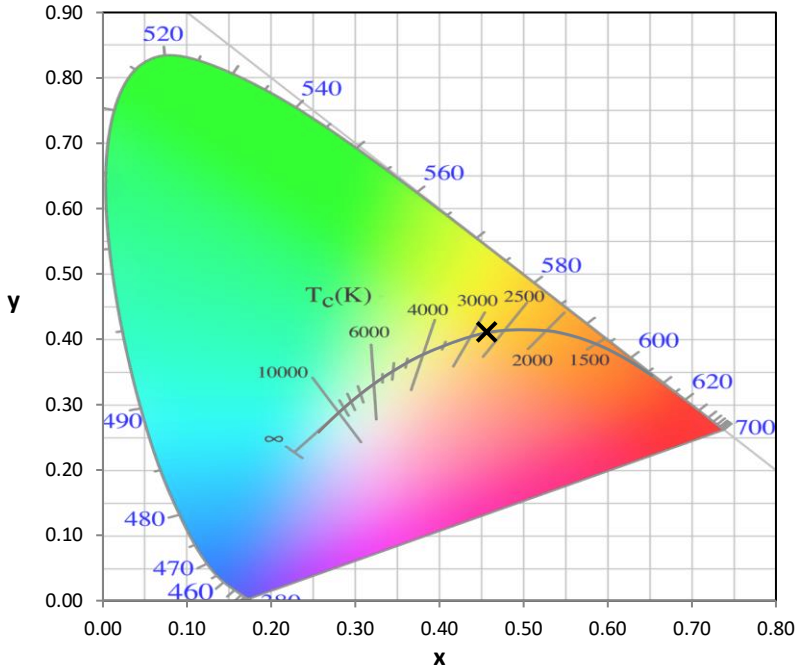
Stabilization Time:	29M
Operation Time:	1H 29M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-8

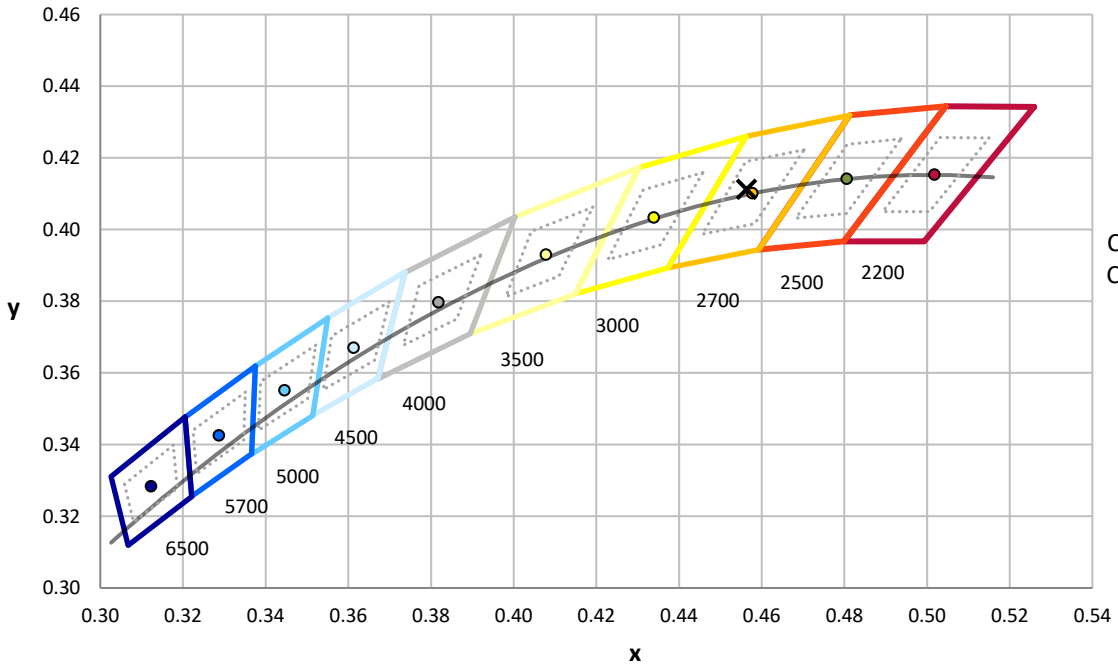
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-8

CIE 1931 Chromaticity Diagram



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

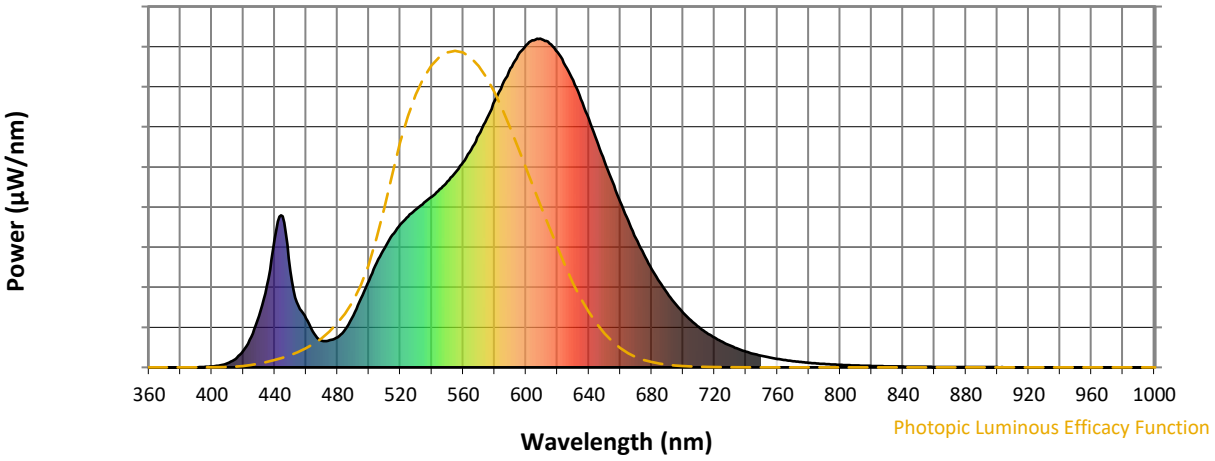


CCT = 2756K
CIE x = 0.4563
CIE y = 0.4112
Duv = 0.0006

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-8

Photopic Flux vs. Wavelength

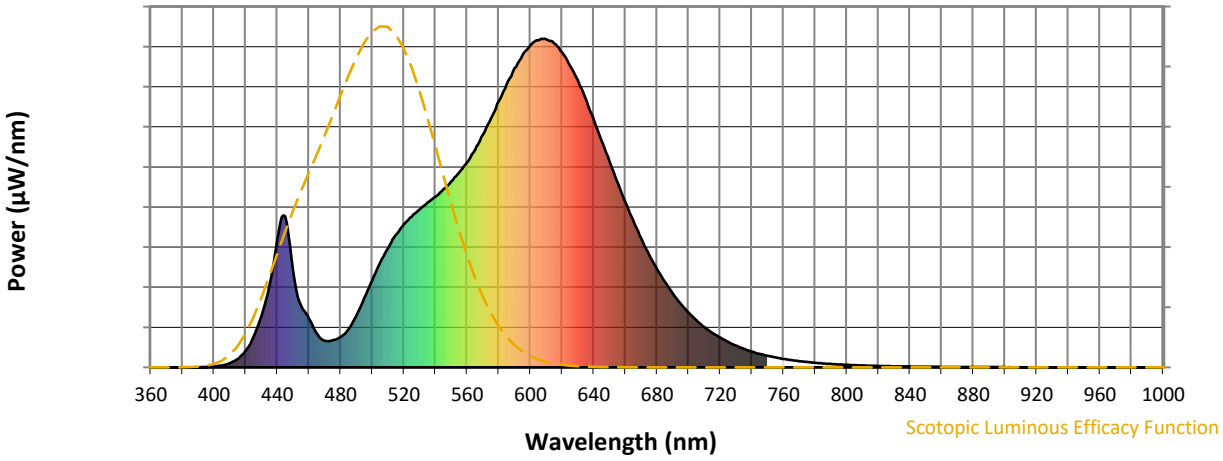


Photopic Lumens: NR

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

Scotopic Flux vs. Wavelength

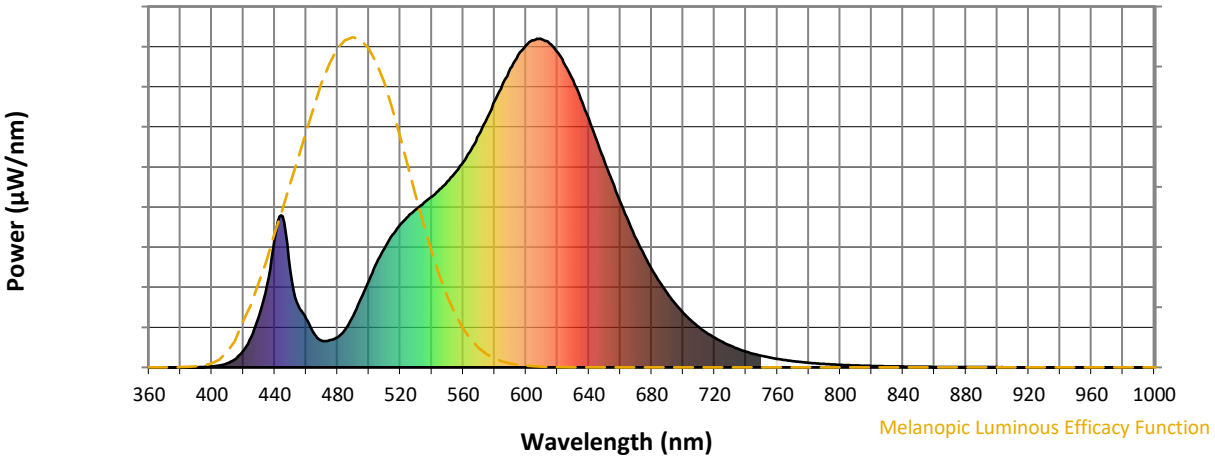


Scotopic Lumens: NR **S/P: 1.2**

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.16**

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

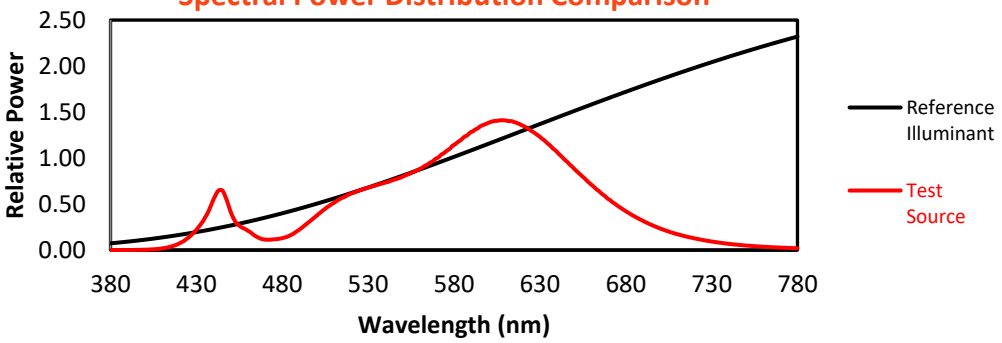
REPORT NUMBER: SP1-2407-184-8

TM-30-18

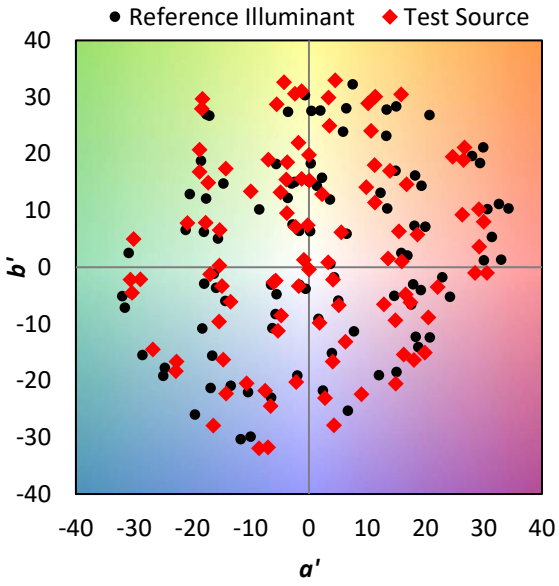
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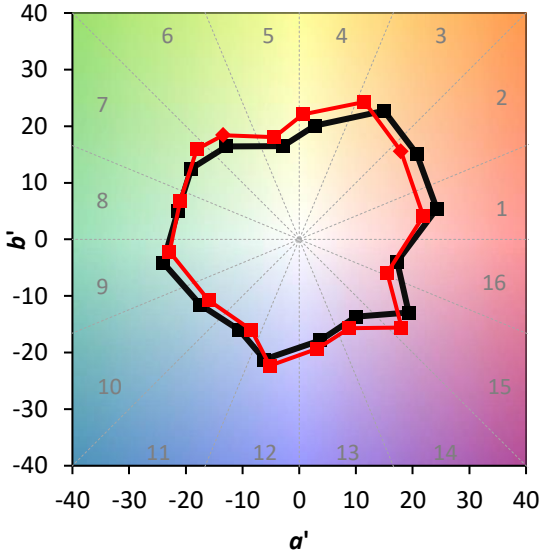
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R_g = 99.9
CIE R_a = 82.9
R_9 = 10.8

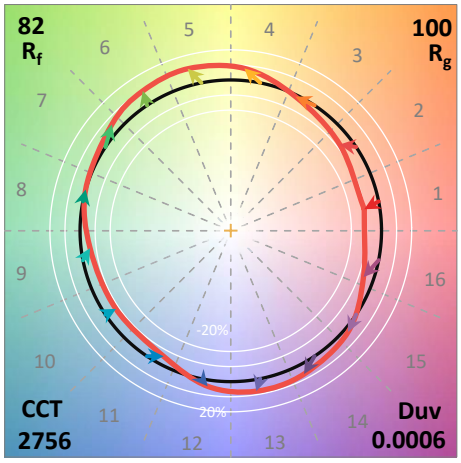
Spectral Power Distribution Comparison

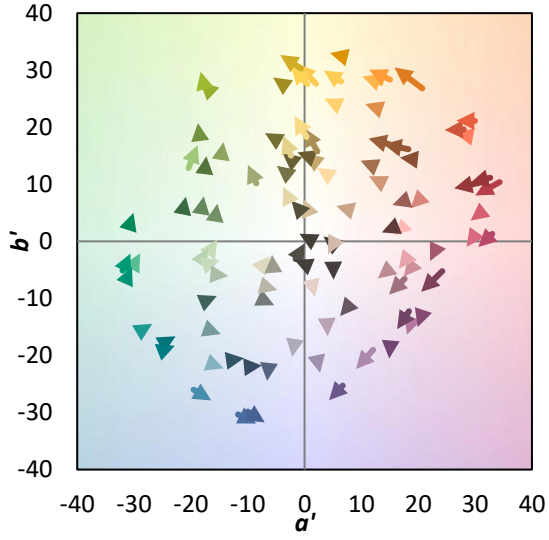


Color Vector Graphics







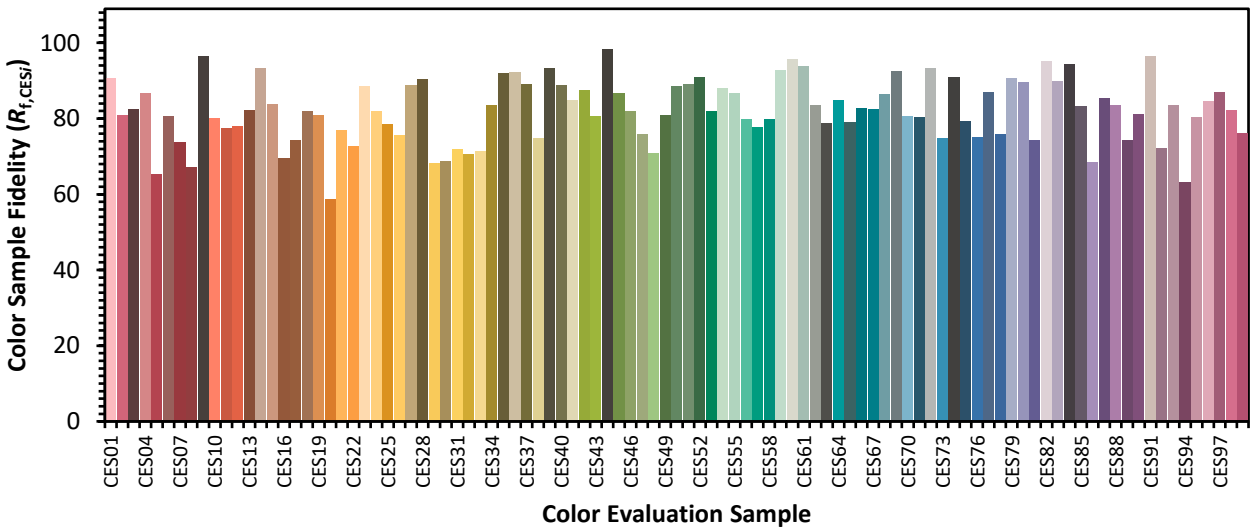


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Individual Sample Fidelity Index ($R_{f,i}$)

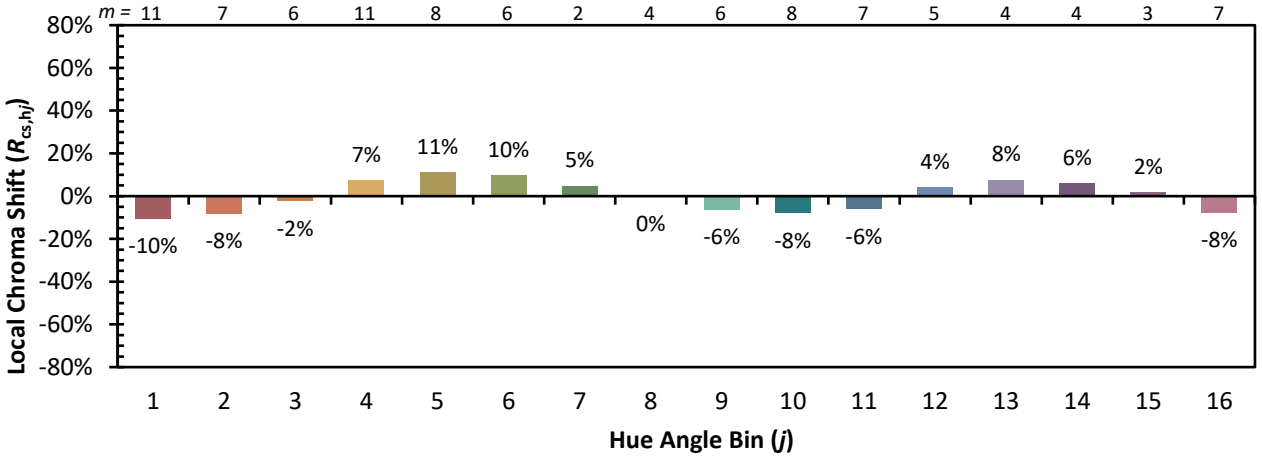
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CES02 = 63	CES27 = 89	CES52 = 91	CES77 = 87
CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 78	CES82 = 95
CES08 = 42	CES33 = 71	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 84	CES59 = 93	CES84 = 94
CES10 = 77	CES35 = 92	CES60 = 96	CES85 = 83
CES11 = 59	CES36 = 92	CES61 = 94	CES86 = 69
CES12 = 66	CES37 = 89	CES62 = 84	CES87 = 85
CES13 = 44	CES38 = 75	CES63 = 79	CES88 = 84
CES14 = 74	CES39 = 93	CES64 = 85	CES89 = 74
CES15 = 72	CES40 = 89	CES65 = 79	CES90 = 81
CES16 = 48	CES41 = 85	CES66 = 83	CES91 = 96
CES17 = 50	CES42 = 88	CES67 = 82	CES92 = 72
CES18 = 57	CES43 = 81	CES68 = 86	CES93 = 84
CES19 = 73	CES44 = 98	CES69 = 92	CES94 = 63
CES20 = 67	CES45 = 87	CES70 = 81	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 81	CES96 = 85
CES22 = 79	CES47 = 76	CES72 = 93	CES97 = 87
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CES24 = 91	CES49 = 81	CES74 = 91	CES99 = 76
CES25 = 72	CES50 = 88	CES75 = 79	

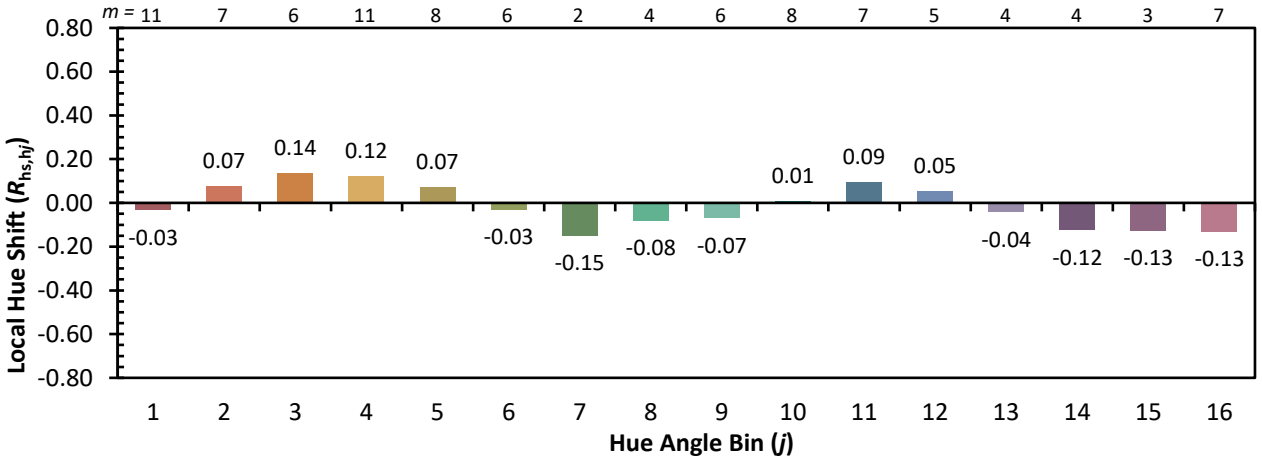


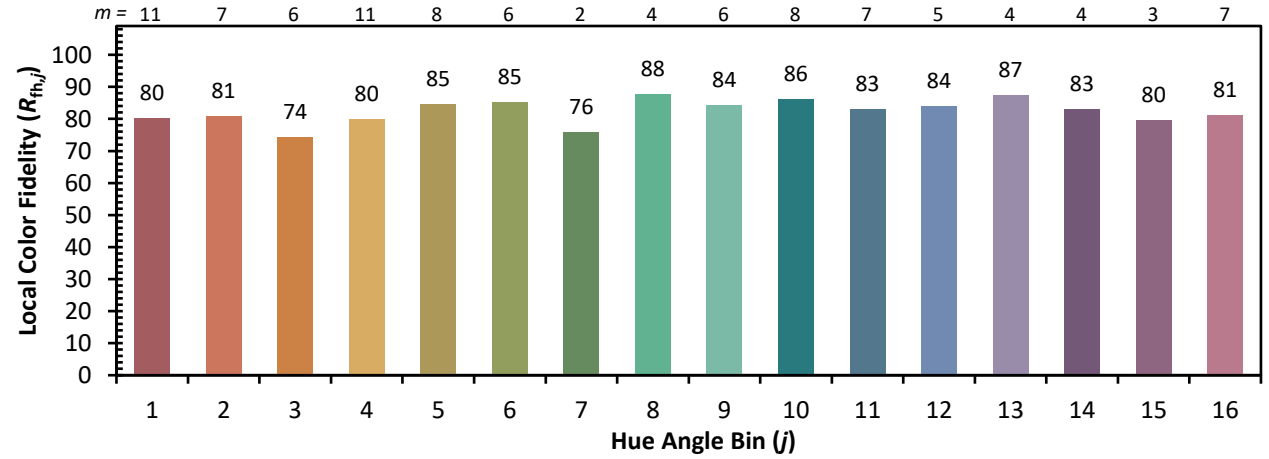
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Color Rendition by Hue-Angle Bin



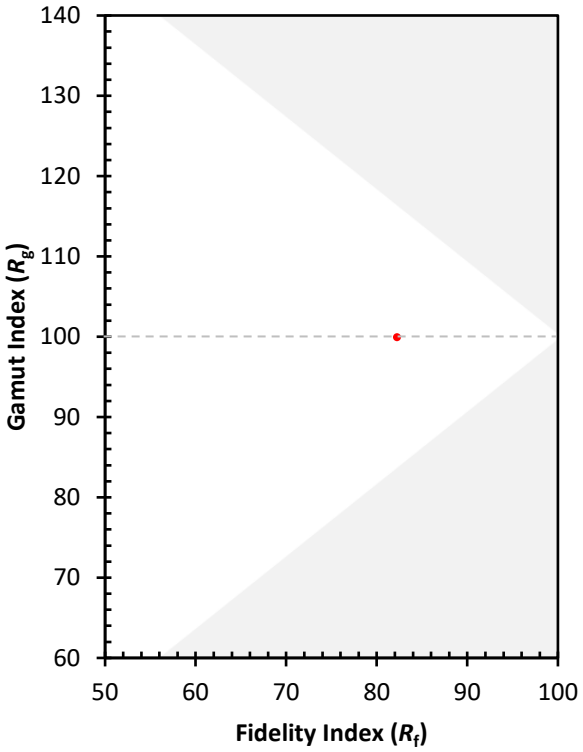


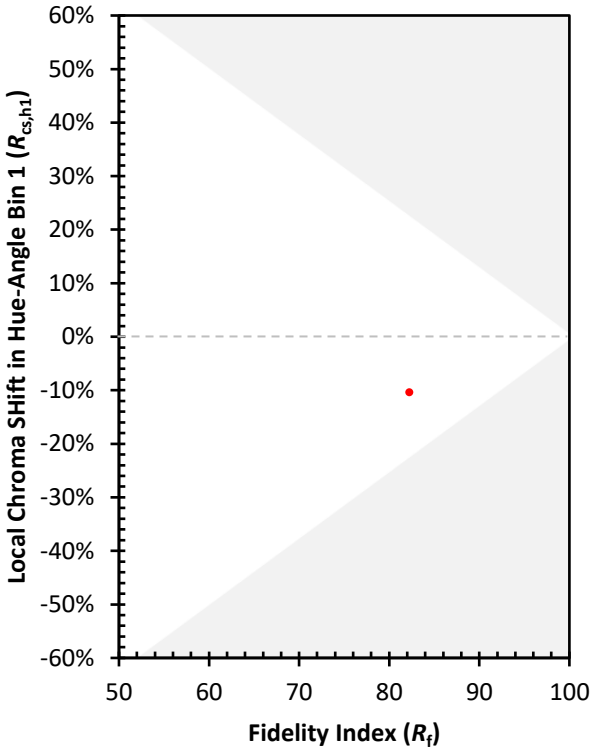


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Measure Comparisons





(END OF REPORT)