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: P1501505

Luminaire Tested: GSS-SB4A-827-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:	P1501505
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB4A-827-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 114W 80CRI 2700K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(104) 2700K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	15092.8 lumens
Efficiency:	N/A
Efficacy:	132.4 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

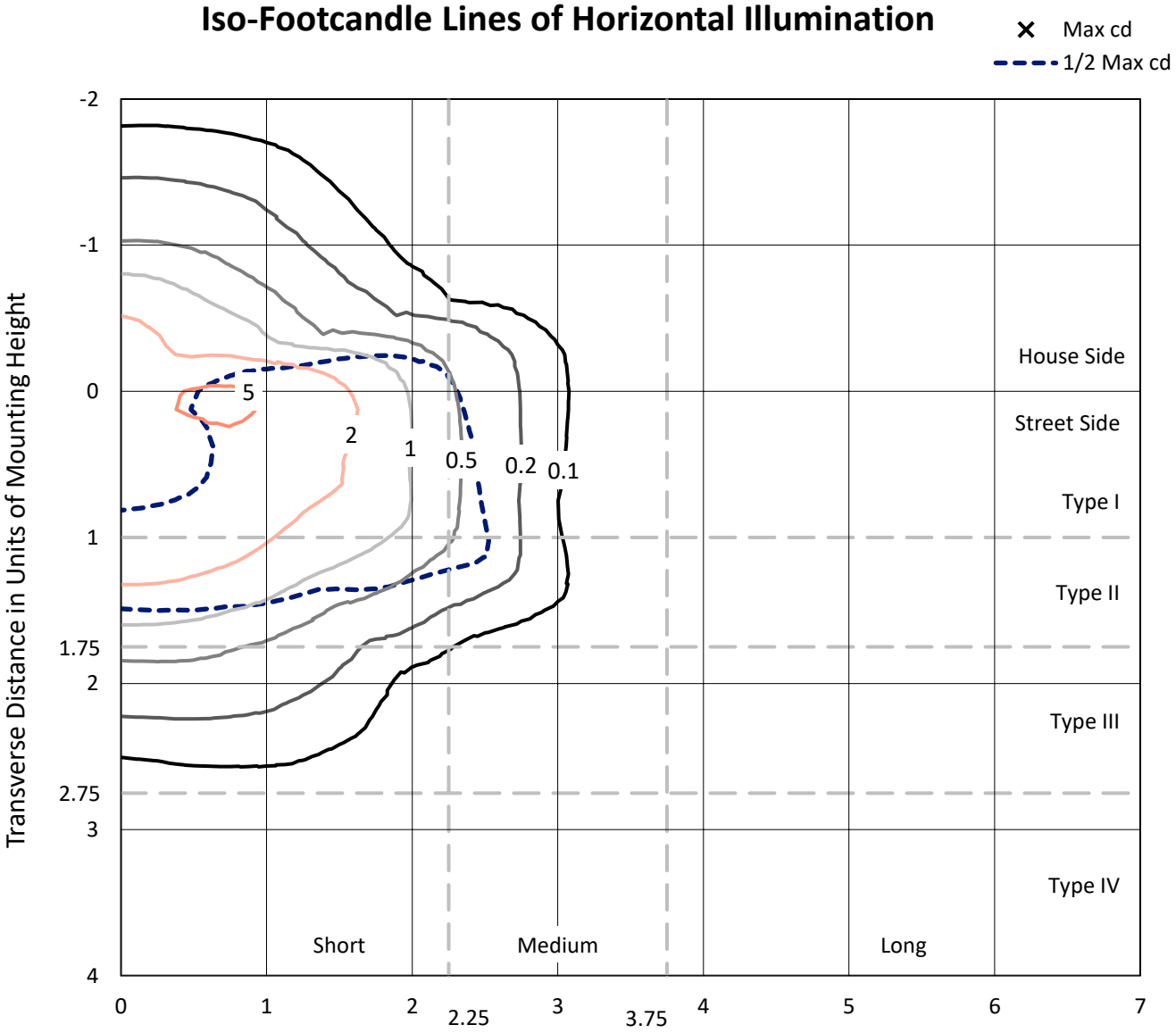
Input Watts (W):	114
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	8.2%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



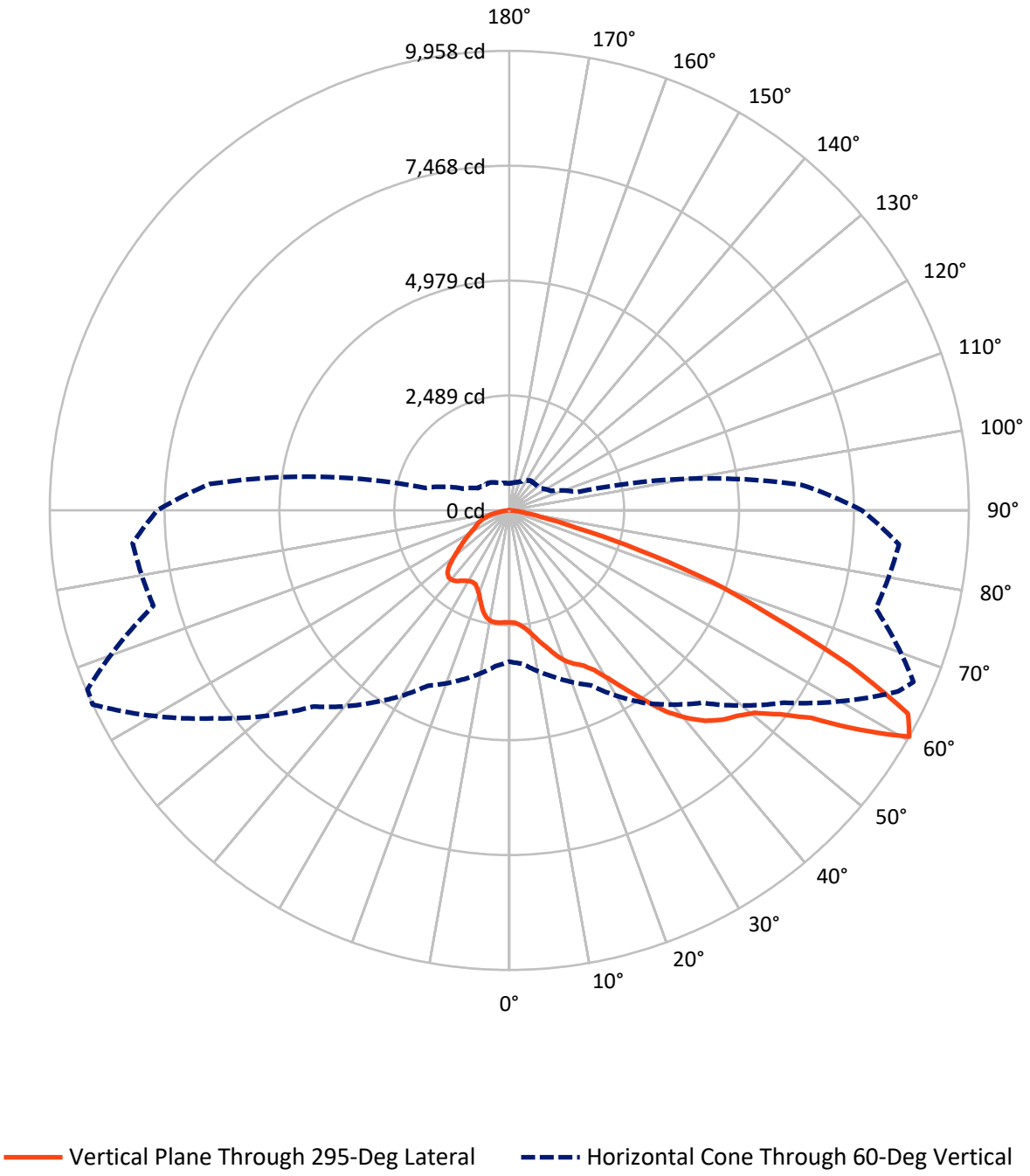
Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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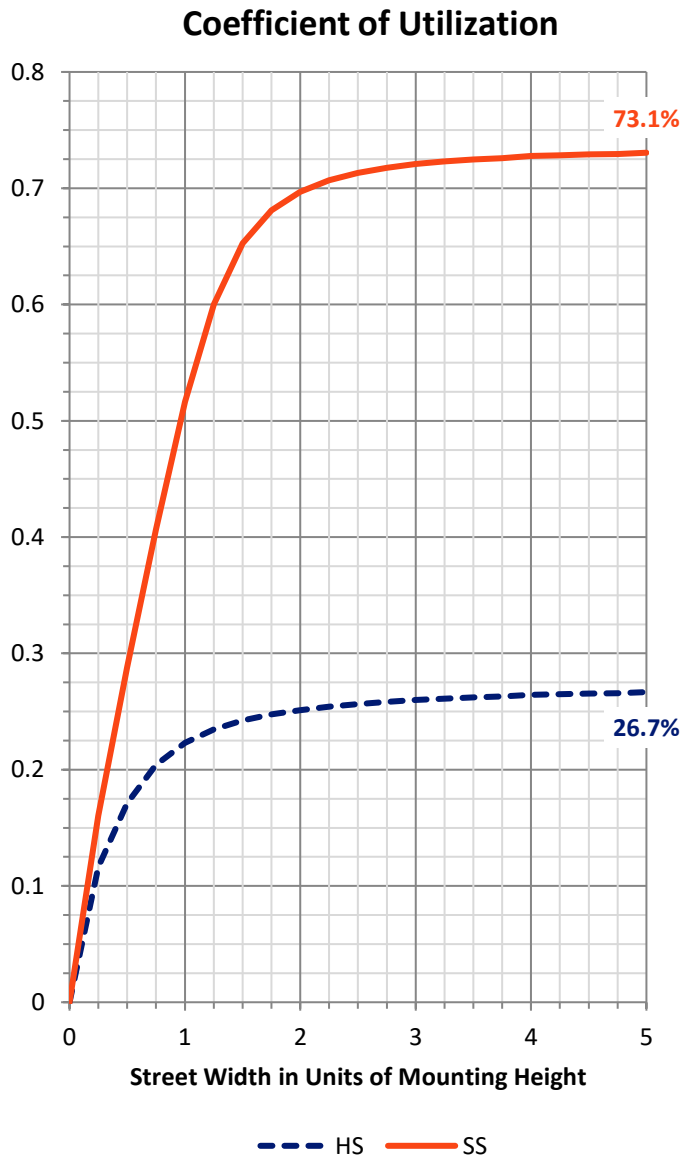
REPORT NUMBER: P1501505
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4058.7	0.0	4058.7
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	11034.2	0.0	11034.2
	% Fixture	73.1	0.0	73.1
Total	Lumens	15092.8	0.0	15092.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.3	1.5
10°-20°	656.4	4.3
20°-30°	1243.3	8.2
30°-40°	2191.8	14.5
40°-50°	3241.4	21.5
50°-60°	3806.3	25.2
60°-70°	2757.8	18.3
70°-80°	850.5	5.6
80°-90°	117.1	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°	15092.8	100.0
0°-180°	15092.8	100.0



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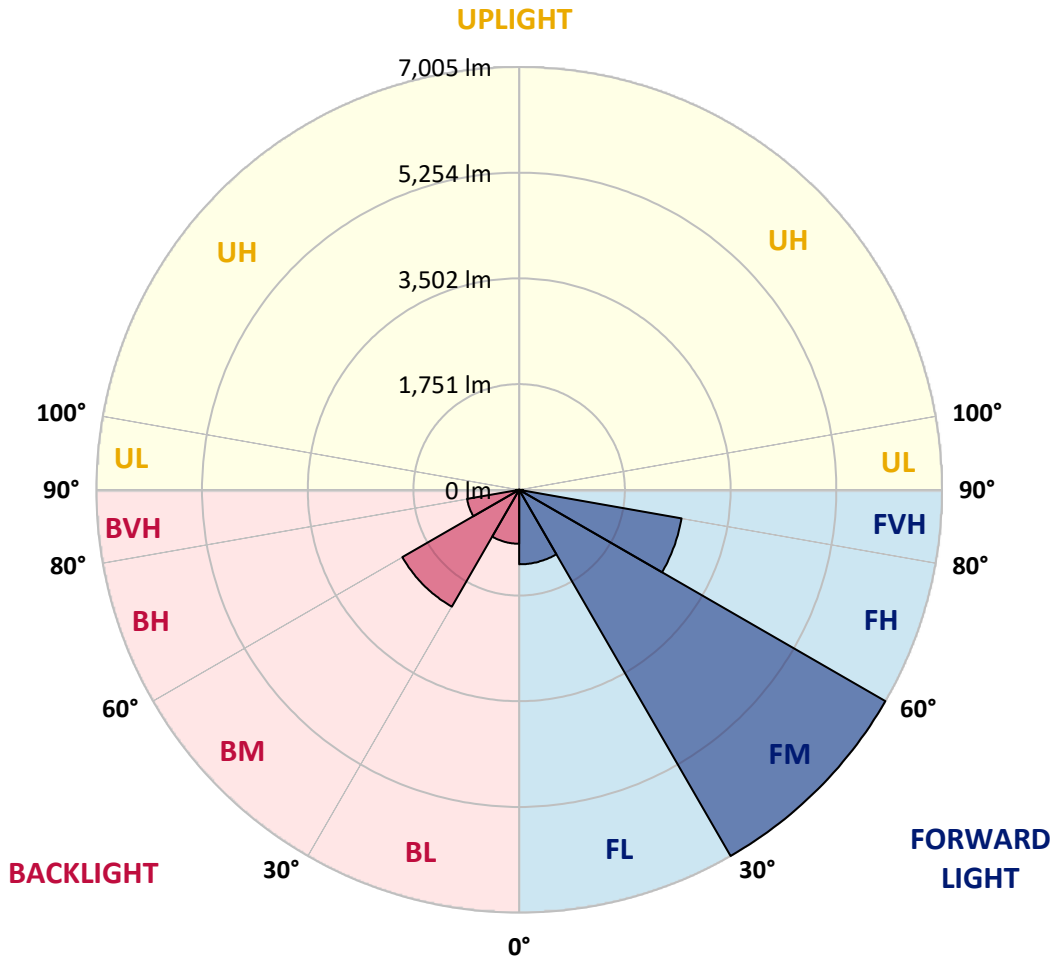
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1234.1	8.2			
FM	(30°-60°)	7004.7	46.4			
FH	(60°-80°)	2732.3	18.1			G2/5000
FVH	(80°-90°)	63.2	0.4			G1/100
BL	(0°-30°)	893.9	5.9	B2/1000		
BM	(30°-60°)	2234.8	14.8	B2/2500		
BH	(60°-80°)	876.1	5.8	B2/1000		G2/1000
BVH	(80°-90°)	53.9	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°	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4
2.5°	2476.5	2483.4	2473.1	2480.0	2480.0	2469.6	2466.2	2452.4	2459.3	2455.9	2452.4
5°	2535.0	2538.4	2531.6	2541.9	2541.9	2545.3	2541.9	2524.7	2524.7	2524.7	2517.8
7.5°	2517.8	2517.8	2521.2	2555.6	2590.0	2634.7	2634.7	2627.9	2634.7	2631.3	2600.3
10°	2373.3	2387.1	2418.0	2504.0	2586.6	2682.9	2748.3	2768.9	2768.9	2772.3	2720.7
12.5°	2115.4	2125.7	2197.9	2328.6	2500.6	2676.0	2834.2	2937.4	2947.7	2964.9	2896.2
15°	1884.9	1891.8	1943.4	2077.5	2273.6	2583.2	2882.4	3095.7	3130.0	3202.3	3099.1
17.5°	1905.5	1902.1	1915.9	1967.5	2108.5	2431.8	2872.1	3281.4	3343.3	3470.6	3381.1
20°	2029.4	2029.4	2039.7	2050.0	2101.6	2321.7	2796.4	3432.7	3553.1	3800.8	3697.6
22.5°	2225.4	2225.4	2222.0	2239.2	2239.2	2369.9	2799.8	3546.2	3725.1	4168.8	4069.1
25°	2497.2	2483.4	2483.4	2490.3	2459.3	2552.2	2885.8	3663.2	3897.1	4605.6	4519.7
27.5°	2803.3	2813.6	2806.7	2782.6	2741.4	2813.6	3092.2	3845.5	4089.7	5066.6	5032.2
30°	3136.9	3140.4	3147.2	3133.5	3099.1	3150.7	3415.5	4120.7	4344.2	5548.1	5623.8
32.5°	3463.7	3511.8	3494.6	3460.3	3474.0	3566.9	3814.5	4492.1	4722.6	5995.2	6263.5
35°	3879.9	3897.1	3965.9	3838.6	3842.0	4000.3	4323.6	4980.6	5204.1	6459.6	6903.3
37.5°	4485.3	4516.2	4485.3	4285.8	4254.8	4474.9	4818.9	5462.1	5623.8	6810.4	7498.4
40°	5080.3	5118.1	5169.7	4935.8	4739.8	4922.1	5286.7	5830.1	5998.7	7003.1	7893.9
42.5°	5572.2	5634.1	5579.1	5510.3	5331.4	5365.8	5613.5	6115.6	6284.2	7247.3	8292.9
45°	5988.4	5998.7	6022.8	5974.6	5885.2	5854.2	5892.1	6366.7	6552.5	7357.3	8489.0
47.5°	6160.4	6205.1	6225.7	6308.3	6401.1	6339.2	6129.4	6483.7	6652.2	7350.5	8550.9
50°	6067.5	6112.2	6222.3	6418.3	6641.9	6752.0	6408.0	6645.3	6834.5	7474.3	8678.1
52.5°	5823.3	5871.4	6050.3	6273.9	6648.8	6899.9	6800.1	6982.4	7164.7	7694.4	8891.4
55°	5231.7	5303.9	5555.0	5926.5	6442.4	6820.8	7212.9	7477.7	7677.2	7959.3	9111.5
57.5°	4371.8	4447.4	4729.5	5286.7	6060.6	6494.0	7333.3	8406.4	8495.8	8275.7	9132.2
60°	*3274.5*	*3336.4*	*3735.4*	*4182.6*	*5090.6*	*5895.5*	*7264.5*	*9287.0*	*9514.0*	*8220.7*	*8475.2*
62.5°	2593.5	2669.1	3023.4	3229.8	3879.9	4870.5	7023.7	9531.2	9727.2	7766.7	7560.3
65°	2025.9	2077.5	2407.7	2703.5	2861.8	3326.1	6019.3	8337.6	8513.0	7027.1	6239.5
67.5°	1338.0	1417.1	1809.2	2215.1	2297.7	2115.4	4141.3	6414.9	6497.4	5585.9	4691.6
70°	959.7	997.5	1289.9	1723.2	1847.1	1417.1	2256.4	4856.7	4880.8	3749.2	3161.0
72.5°	653.5	660.4	877.1	1320.8	1472.2	1028.4	1241.7	3198.8	3116.3	1850.5	1809.2
75°	443.7	450.6	560.7	880.5	1042.2	715.4	808.3	1743.9	1675.1	1021.6	1097.2
77.5°	299.2	306.1	385.2	591.6	694.8	495.3	591.6	921.8	904.6	677.6	588.2
80°	227.0	237.3	285.5	378.4	485.0	288.9	337.1	436.8	443.7	361.2	299.2
82.5°	127.3	141.0	172.0	192.6	313.0	161.7	161.7	261.4	251.1	223.6	161.7
85°	55.0	58.5	68.8	72.2	127.3	68.8	58.5	113.5	116.9	110.1	51.6
87.5°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	13.8	13.8	13.8	13.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4
2.5°	2435.2	2455.9	2435.2	2424.9	2424.9	2407.7	2400.9	2400.9	2376.8	2387.1	2380.2
5°	2490.3	2497.2	2473.1	2442.1	2400.9	2366.5	2318.3	2256.4	2218.6	2215.1	2218.6
7.5°	2576.3	2579.7	2514.4	2445.6	2342.4	2218.6	2070.6	1950.3	1843.6	1826.4	1847.1
10°	2696.7	2689.8	2593.5	2431.8	2215.1	1953.7	1726.7	1616.6	1554.7	1551.3	1547.8
12.5°	2858.3	2813.6	2665.7	2373.3	1995.0	1692.3	1575.3	1568.5	1585.7	1599.4	1602.9
15°	3044.1	2985.6	2724.2	2259.8	1771.4	1596.0	1602.9	1661.3	1682.0	1695.7	1695.7
17.5°	3274.5	3198.8	2789.5	2098.2	1657.9	1616.6	1664.8	1719.8	1754.2	1768.0	1764.5
20°	3580.6	3422.4	2841.1	1943.4	1626.9	1651.0	1692.3	1747.3	1781.7	1798.9	1798.9
22.5°	3886.8	3690.7	2851.4	1836.8	1626.9	1654.5	1692.3	1747.3	1785.2	1802.4	1798.9
25°	4303.0	4034.7	2854.9	1761.1	1630.4	1637.3	1671.7	1719.8	1774.8	1792.0	1798.9
27.5°	4746.7	4413.0	2872.1	1743.9	1616.6	1613.2	1637.3	1682.0	1737.0	1781.7	1785.2
30°	5297.0	4839.5	2879.0	1761.1	1620.1	1575.3	1592.5	1637.3	1695.7	1740.4	1754.2
32.5°	5837.0	5235.1	2865.2	1798.9	1626.9	1551.3	1554.7	1582.2	1644.1	1675.1	1699.2
35°	6408.0	5654.7	2841.1	1850.5	1630.4	1540.9	1510.0	1523.7	1565.0	1568.5	1578.8
37.5°	6855.2	5967.7	2768.9	1919.3	1637.3	1503.1	1441.2	1430.9	1413.7	1379.3	1386.2
40°	7223.2	6177.5	2648.5	1953.7	1620.1	1458.4	1355.2	1307.1	1241.7	1190.1	1200.4
42.5°	7488.0	6318.6	2504.0	1960.6	1592.5	1382.7	1255.5	1172.9	1100.7	1045.6	1049.1
45°	7605.0	6304.8	2349.3	1909.0	1527.2	1289.9	1162.6	1083.5	1004.4	945.9	939.0
47.5°	7608.4	6170.7	2136.0	1785.2	1417.1	1183.2	1076.6	990.6	925.3	884.0	880.5
50°	7635.9	6095.0	1936.5	1606.3	1272.7	1069.7	1000.9	914.9	877.1	818.6	801.4
52.5°	7807.9	6218.8	1798.9	1410.2	1138.5	987.2	935.6	859.9	798.0	760.2	756.7
55°	8086.5	6432.1	1723.2	1262.3	1011.2	908.1	873.7	808.3	753.3	715.4	705.1
57.5°	8120.9	6542.1	1633.8	1124.8	908.1	846.1	832.4	760.2	681.0	653.5	643.2
60°	*7639.4*	*6356.4*	*1523.7*	*997.5*	*832.4*	*798.0*	*791.1*	*694.8*	*629.4*	*595.1*	*581.3*
62.5°	6982.4	5892.1	1355.2	880.5	773.9	749.8	722.3	646.6	564.1	526.3	515.9
65°	5706.3	4953.0	1152.3	801.4	715.4	687.9	681.0	577.9	522.8	502.2	498.7
67.5°	4323.6	3979.6	1014.7	743.0	653.5	643.2	619.1	584.7	560.7	536.6	529.7
70°	3057.8	2872.1	863.3	667.3	591.6	574.4	674.2	636.3	550.3	519.4	515.9
72.5°	1854.0	1802.4	746.4	598.5	509.1	536.6	622.6	574.4	495.3	457.5	443.7
75°	1169.5	1069.7	626.0	509.1	405.9	436.8	543.5	512.5	426.5	388.7	378.4
77.5°	636.3	591.6	471.2	416.2	319.9	354.3	474.7	423.1	340.5	371.5	330.2
80°	278.6	309.6	313.0	240.8	213.3	261.4	340.5	330.2	261.4	264.9	220.1
82.5°	134.1	175.4	202.9	165.1	120.4	154.8	227.0	189.2	175.4	165.1	158.2
85°	41.3	65.4	89.4	79.1	55.0	65.4	106.6	103.2	123.8	106.6	99.7
87.5°	13.8	13.8	10.3	10.3	10.3	13.8	17.2	10.3	3.4	3.4	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°	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4
2.5°	2376.8	2380.2	2380.2	2383.7	2383.7	2394.0	2407.7	2421.5	2411.2	2424.9	2428.4
5°	2211.7	2228.9	2242.6	2294.2	2335.5	2369.9	2407.7	2442.1	2452.4	2459.3	2476.5
7.5°	1823.0	1871.2	1960.6	2077.5	2208.2	2335.5	2421.5	2510.9	2524.7	2541.9	2566.0
10°	1551.3	1571.9	1633.8	1754.2	1988.1	2239.2	2449.0	2590.0	2648.5	2682.9	2707.0
12.5°	1596.0	1582.2	1571.9	1589.1	1740.4	2063.8	2431.8	2703.5	2813.6	2851.4	2882.4
15°	1702.6	1688.9	1651.0	1602.9	1620.1	1878.0	2373.3	2810.2	2985.6	3047.5	3112.9
17.5°	1764.5	1750.8	1719.8	1668.2	1623.5	1723.2	2263.3	2906.5	3257.3	3333.0	3425.9
20°	1798.9	1785.2	1754.2	1702.6	1651.0	1664.8	2122.2	3026.9	3566.9	3687.3	3824.9
22.5°	1805.8	1788.6	1754.2	1702.6	1671.7	1661.3	1988.1	3099.1	3900.5	4086.3	4244.5
25°	1802.4	1771.4	1726.7	1688.9	1671.7	1668.2	1895.2	3140.4	4261.7	4557.5	4736.3
27.5°	1778.3	1740.4	1695.7	1668.2	1661.3	1682.0	1854.0	3188.5	4684.8	5063.1	5348.6
30°	1750.8	1695.7	1640.7	1630.4	1647.6	1712.9	1888.3	3205.7	5128.5	5613.5	5905.8
32.5°	1678.5	1637.3	1582.2	1578.8	1620.1	1737.0	1967.5	3181.6	5520.6	6163.8	6531.8
35°	1575.3	1551.3	1520.3	1530.6	1596.0	1757.6	2022.5	3106.0	5878.3	6676.3	7106.2
37.5°	1393.0	1410.2	1427.4	1451.5	1534.1	1754.2	2046.6	2985.6	6174.1	7085.6	7635.9
40°	1190.1	1248.6	1303.6	1365.5	1475.6	1726.7	2053.5	2837.7	6346.1	7395.2	8107.2
42.5°	1062.8	1117.9	1186.7	1276.1	1396.5	1664.8	2046.6	2672.6	6401.1	7608.4	8406.4
45°	945.9	1011.2	1097.2	1190.1	1327.7	1575.3	1984.7	2493.7	6428.6	7708.2	8533.7
47.5°	884.0	921.8	1000.9	1093.8	1238.3	1465.3	1864.3	2363.0	6387.4	7728.8	8688.5
50°	811.7	863.3	914.9	1004.4	1145.4	1327.7	1719.8	2287.3	6456.2	7931.8	8932.7
52.5°	756.7	784.2	839.3	921.8	1025.0	1200.4	1582.2	2225.4	6645.3	8138.1	9187.2
55°	715.4	746.4	780.8	849.6	928.7	1073.2	1441.2	2132.6	6865.5	8358.3	9441.7
57.5°	650.1	670.7	718.9	791.1	842.7	949.3	1276.1	2022.5	6848.3	8186.3	9001.5
60°	*591.6*	*612.3*	*663.8*	*736.1*	*767.0*	*839.3*	*1114.4*	*1881.5*	*6518.1*	*7625.6*	*8189.7*
62.5°	526.3	550.3	612.3	663.8	691.4	746.4	945.9	1623.5	5830.1	6782.9	7240.4
65°	498.7	512.5	553.8	615.7	612.3	663.8	798.0	1276.1	4691.6	5183.5	5599.7
67.5°	529.7	550.3	543.5	560.7	550.3	577.9	715.4	1025.0	3687.3	3904.0	4144.7
70°	522.8	571.0	595.1	560.7	481.5	512.5	619.1	818.6	2638.2	2617.5	2607.2
72.5°	457.5	505.6	574.4	608.8	471.2	426.5	536.6	708.6	1692.3	1685.4	1523.7
75°	388.7	423.1	505.6	550.3	405.9	344.0	460.9	601.9	1011.2	1025.0	914.9
77.5°	357.7	340.5	423.1	485.0	330.2	264.9	371.5	454.0	557.2	564.1	522.8
80°	258.0	247.7	316.4	354.3	251.1	189.2	209.8	282.0	299.2	268.3	278.6
82.5°	165.1	168.5	189.2	227.0	154.8	103.2	144.5	189.2	161.7	130.7	154.8
85°	106.6	120.4	99.7	116.9	48.2	48.2	61.9	82.6	55.0	37.8	41.3
87.5°	0.0	0.0	6.9	13.8	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: P1501505
CATALOG NUMBER: GSS-SB4A-827-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	2428.4	2428.4	*2428.4*	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4
2.5°	2438.7	2435.2	*2435.2*	2442.1	2459.3	2466.2	2476.5	2473.1	2483.4	2476.5
5°	2486.8	2490.3	*2500.6*	2504.0	2514.4	2528.1	2531.6	2528.1	2535.0	2535.0
7.5°	2583.2	2596.9	*2590.0*	2607.2	2593.5	2576.3	2548.8	2528.1	2510.9	2517.8
10°	2744.8	2737.9	*2734.5*	2703.5	2641.6	2552.2	2480.0	2400.9	2387.1	2373.3
12.5°	2923.7	2916.8	*2916.8*	2810.2	2634.7	2449.0	2283.9	2160.1	2118.8	2115.4
15°	3174.8	3130.0	*3088.8*	2865.2	2514.4	2197.9	2005.3	1909.0	1884.9	1884.9
17.5°	3487.8	3370.8	*3302.0*	2823.9	2318.3	2032.8	1919.3	1895.2	1888.3	1905.5
20°	3876.4	3580.6	*3480.9*	2731.1	2246.1	2053.5	1998.4	2001.9	2005.3	2029.4
22.5°	4303.0	3773.3	*3608.2*	2731.1	2318.3	2184.2	2156.6	2194.5	2204.8	2225.4
25°	4777.6	3945.2	*3721.7*	2875.5	2531.6	2431.8	2397.4	2435.2	2462.8	2497.2
27.5°	5310.8	4124.1	*3917.7*	3136.9	2806.7	2744.8	2707.0	2724.2	2762.0	2803.3
30°	5788.9	4423.3	*4217.0*	3535.9	3181.6	3106.0	3040.6	3068.1	3109.4	3136.9
32.5°	6211.9	4787.9	*4612.5*	3955.6	3611.6	3480.9	3408.7	3401.8	3484.3	3463.7
35°	6600.6	5217.9	*5049.4*	4433.7	4048.4	3886.8	3790.5	3914.3	3859.2	3879.9
37.5°	6906.7	5665.0	*5530.9*	4891.1	4502.5	4282.3	4223.8	4375.2	4461.2	4485.3
40°	7157.8	6053.7	*5912.7*	5345.2	4918.6	4757.0	4849.9	5100.9	5090.6	5080.3
42.5°	7350.5	6387.4	*6232.6*	5689.1	5317.6	5348.6	5420.8	5589.4	5630.6	5572.2
45°	7436.4	6597.2	*6473.4*	5960.9	5771.7	5950.5	5981.5	6053.7	6026.2	5988.4
47.5°	7536.2	6782.9	*6652.2*	6208.5	6263.5	6439.0	6377.0	6318.6	6218.8	6160.4
50°	7704.7	7003.1	*6893.0*	6569.7	6769.2	6710.7	6469.9	6339.2	6136.3	6067.5
52.5°	8024.6	7419.2	*7336.7*	7140.6	7006.5	6669.4	6377.0	6143.2	5916.1	5823.3
55°	8310.1	7983.3	*7935.2*	7673.8	6934.3	6452.7	6060.6	5699.4	5310.8	5231.7
57.5°	8475.2	8918.9	*8974.0*	7900.8	6604.1	5960.9	5383.0	4805.1	4437.1	4371.8
60°	*7983.3*	*9930.2*	*9957.7*	*7856.1*	*6009.0*	*5073.4*	*4192.9*	*3783.6*	*3388.0*	*3274.5*
62.5°	7305.7	9720.4	*9696.3*	7587.8	4784.5	3701.0	3185.1	2992.5	2686.3	2593.5
65°	6280.7	8096.9	*8124.4*	6555.9	3181.6	2676.0	2676.0	2431.8	2091.3	2025.9
67.5°	5118.1	6242.9	*6181.0*	4251.4	1953.7	2142.9	2246.1	1895.2	1417.1	1338.0
70°	3326.1	4767.3	*4681.3*	2452.4	1227.9	1785.2	1768.0	1424.0	1014.7	959.7
72.5°	1430.9	2755.1	*2930.6*	1252.0	925.3	1437.8	1410.2	997.5	677.6	653.5
75°	863.3	1386.2	*1510.0*	798.0	674.2	1083.5	976.9	632.9	460.9	443.7
77.5°	546.9	760.2	*753.3*	598.5	505.6	732.6	657.0	436.8	313.0	299.2
80°	316.4	374.9	*388.7*	374.9	340.5	522.8	419.6	316.4	244.2	227.0
82.5°	202.9	233.9	*237.3*	182.3	189.2	337.1	227.0	185.7	141.0	127.3
85°	89.4	99.7	*96.3*	61.9	61.9	137.6	79.1	75.7	55.0	55.0
87.5°	3.4	6.9	*3.4*	3.4	3.4	13.8	6.9	10.3	10.3	10.3
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: SP1-2407-184-8

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

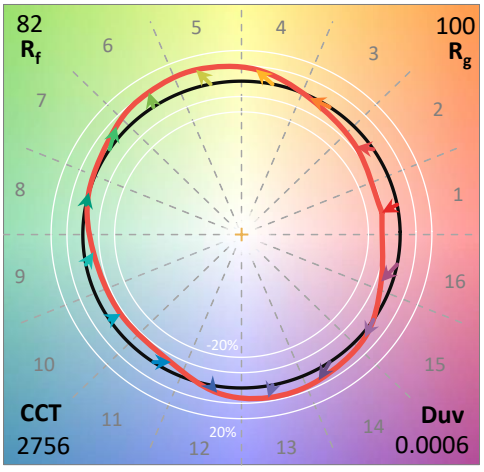
Test Information

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

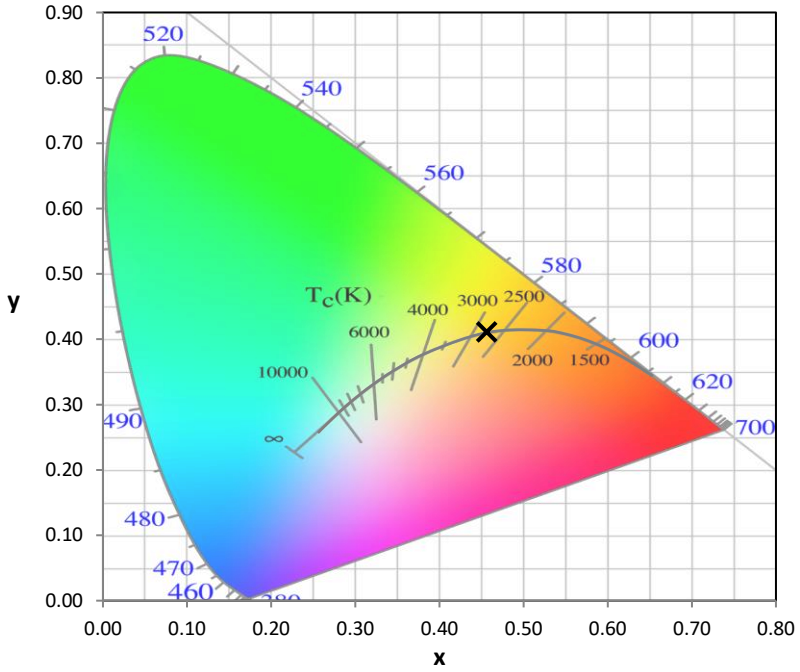
Stabilization Time:	29M
Operation Time:	1H 29M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-8

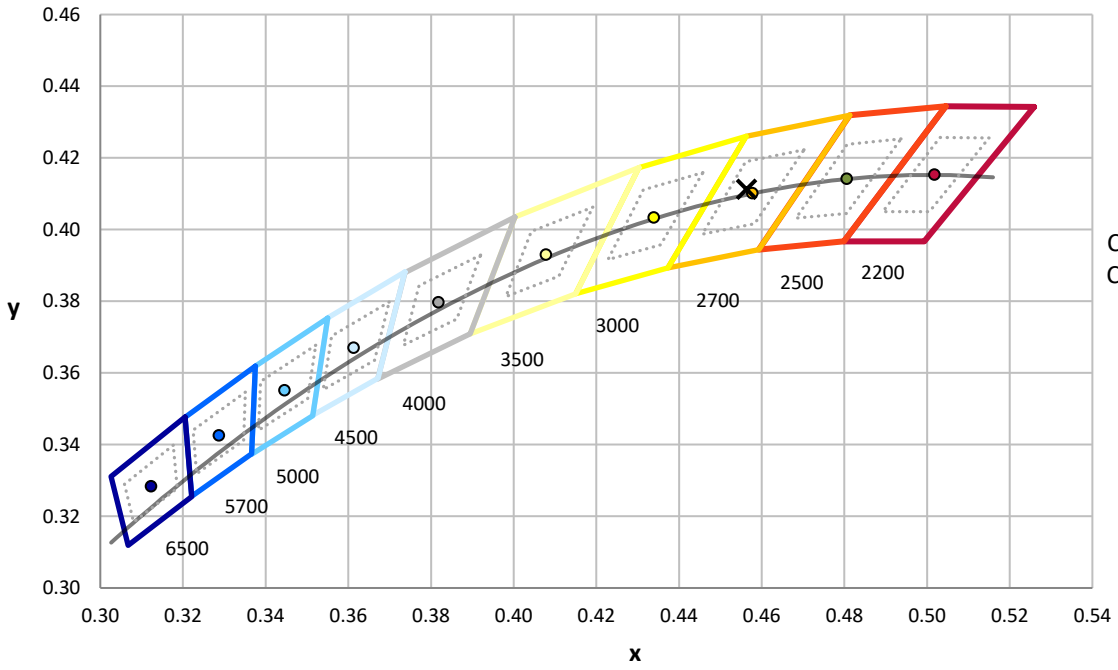
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

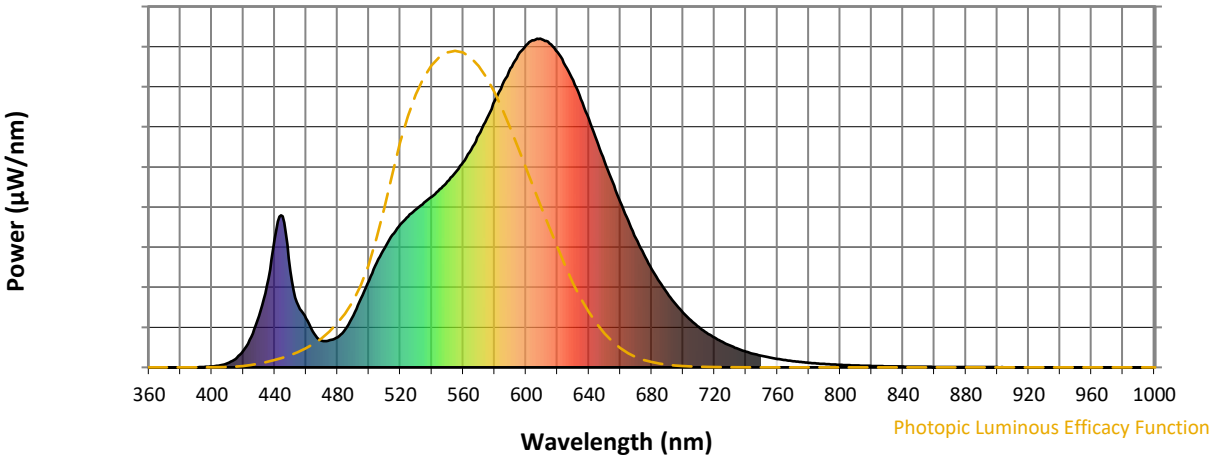


CCT = 2756K
CIE x = 0.4563
CIE y = 0.4112
Duv = 0.0006

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-8

Photopic Flux vs. Wavelength

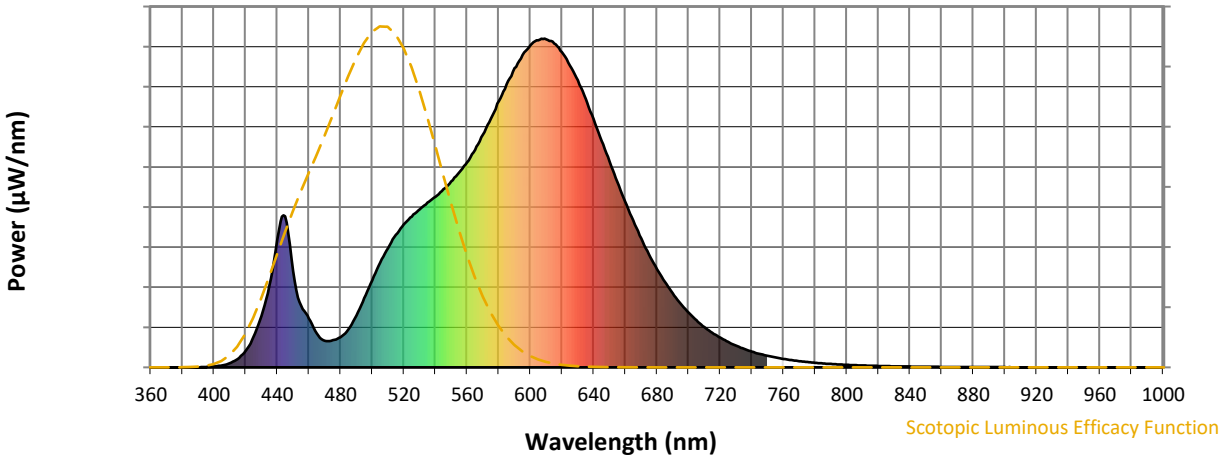


Photopic Lumens: NR

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

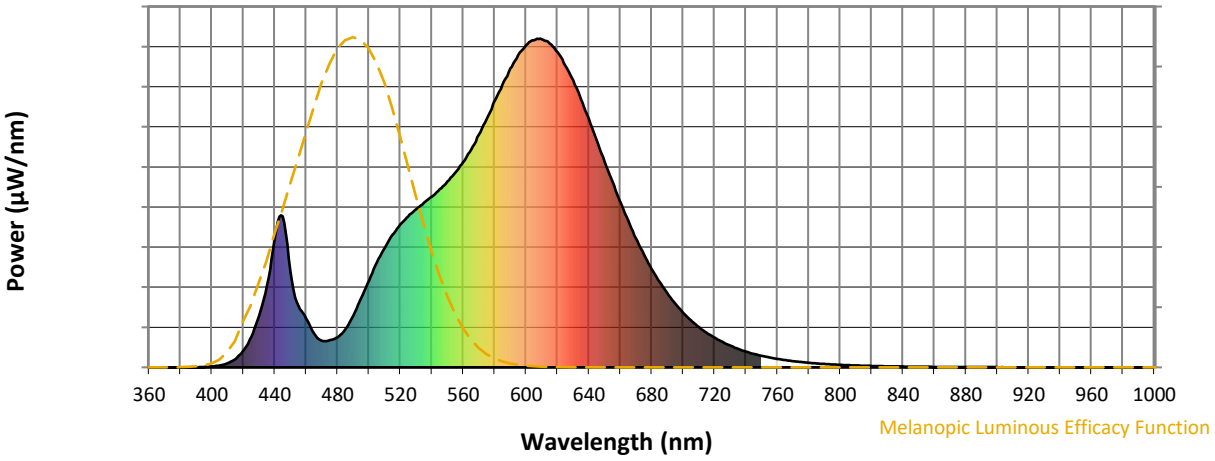


Scotopic Lumens: NR **S/P: 1.2**

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			

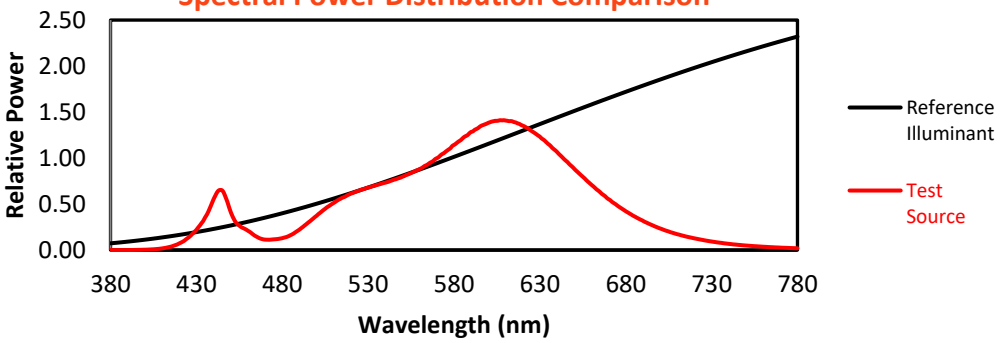
REPORT NUMBER: SP1-2407-184-8

TM-30-18

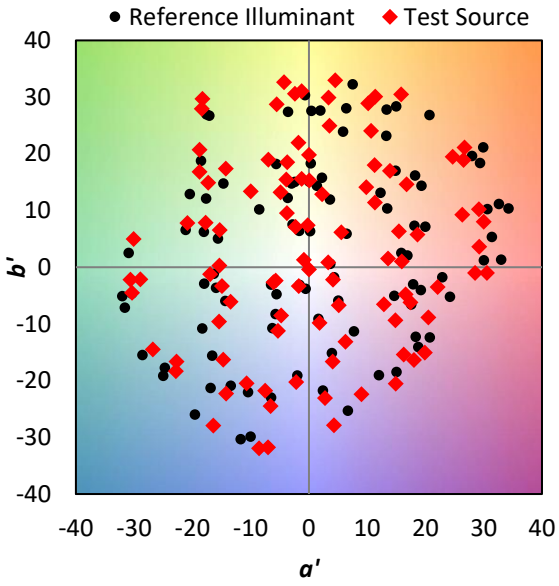
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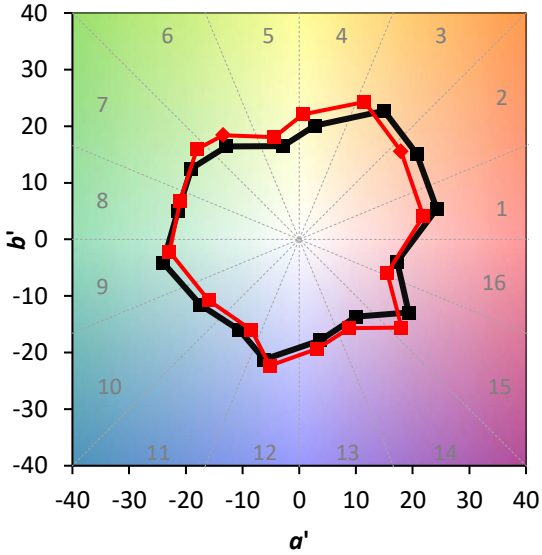
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R_g = 99.9
CIE R_a = 82.9
R_9 = 10.8

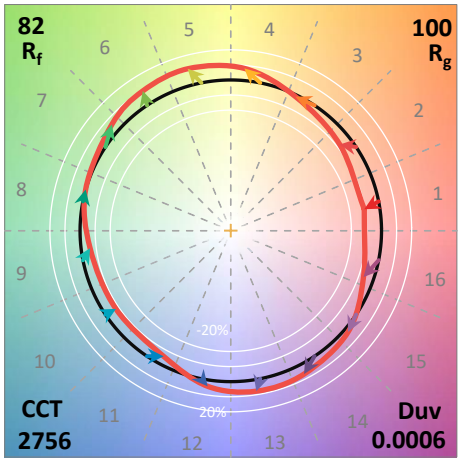
Spectral Power Distribution Comparison

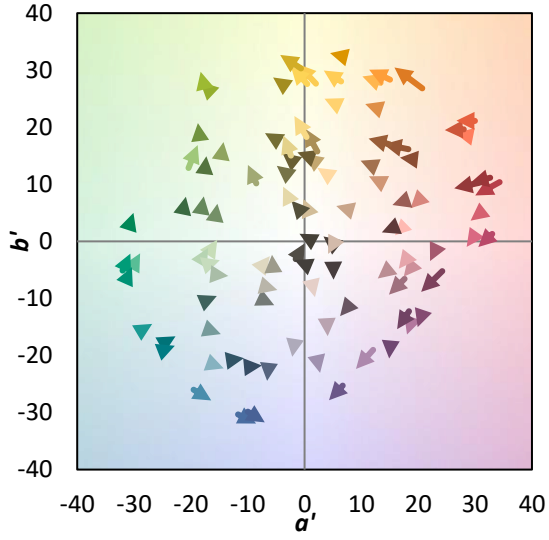


Color Vector Graphics







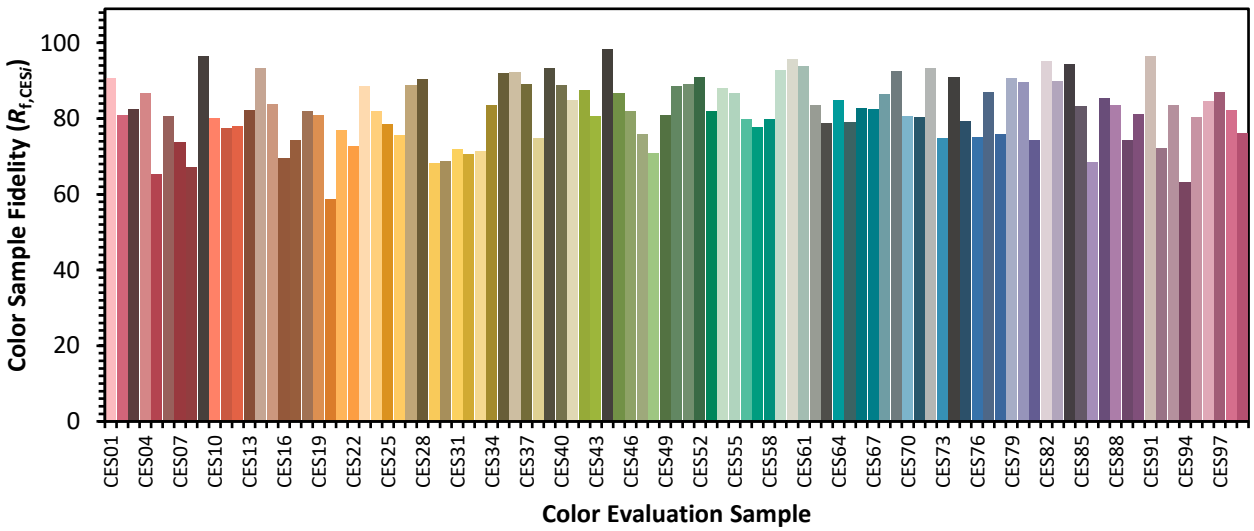


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Individual Sample Fidelity Index ($R_{f,i}$)

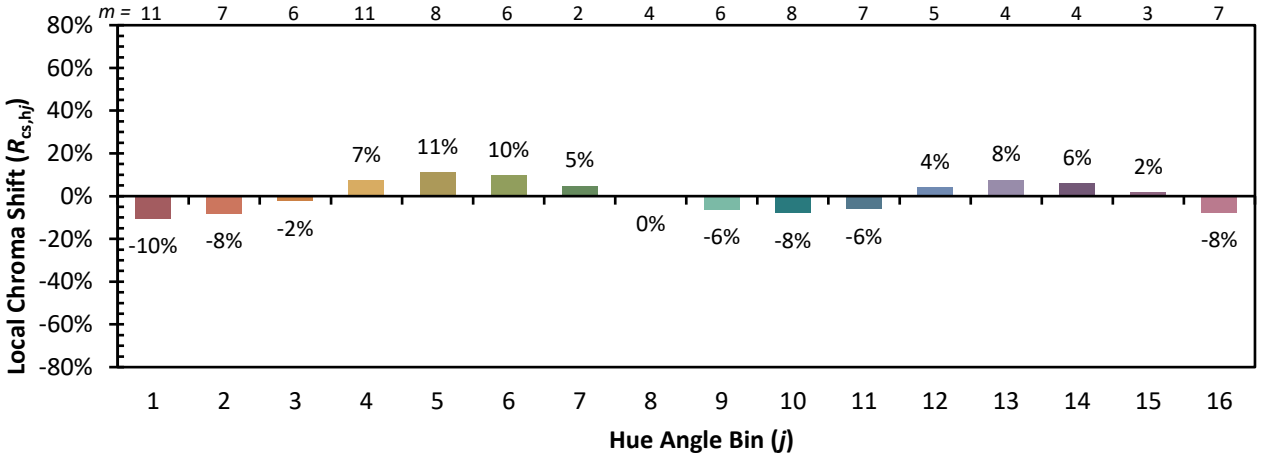
CES01 = 86	CES26 = 76	CES51 = 89	CES76 = 75
CES02 = 63	CES27 = 89	CES52 = 91	CES77 = 87
CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 78	CES82 = 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
CES23 = 92	CES48 = 71	CES73 = 75	CES98 = 82
CES24 = 91	CES49 = 81	CES74 = 91	CES99 = 76
CES25 = 72	CES50 = 88	CES75 = 79	

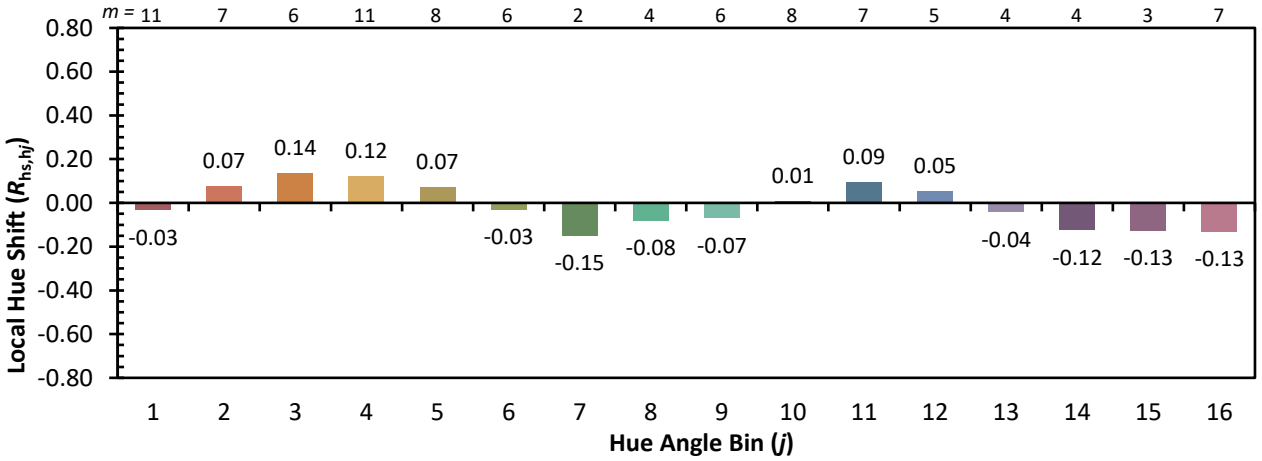


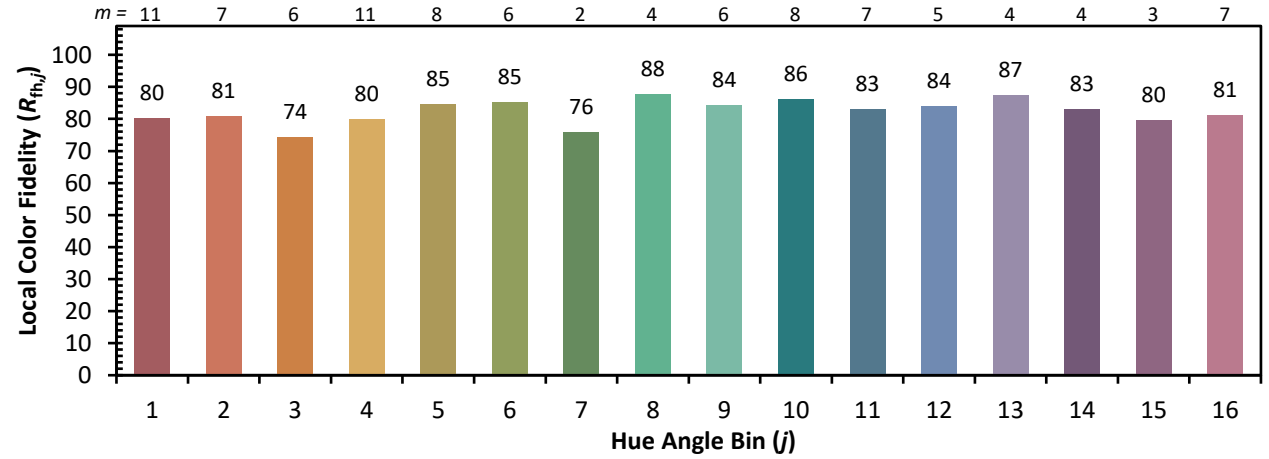
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Color Rendition by Hue-Angle Bin



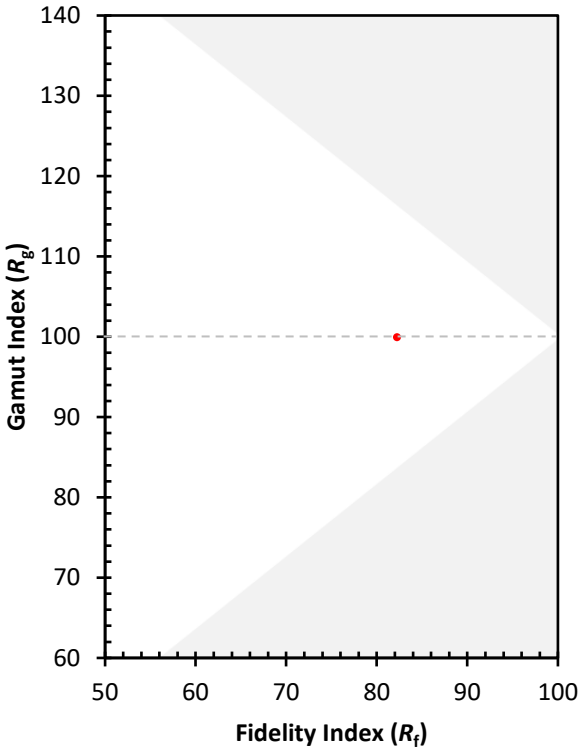


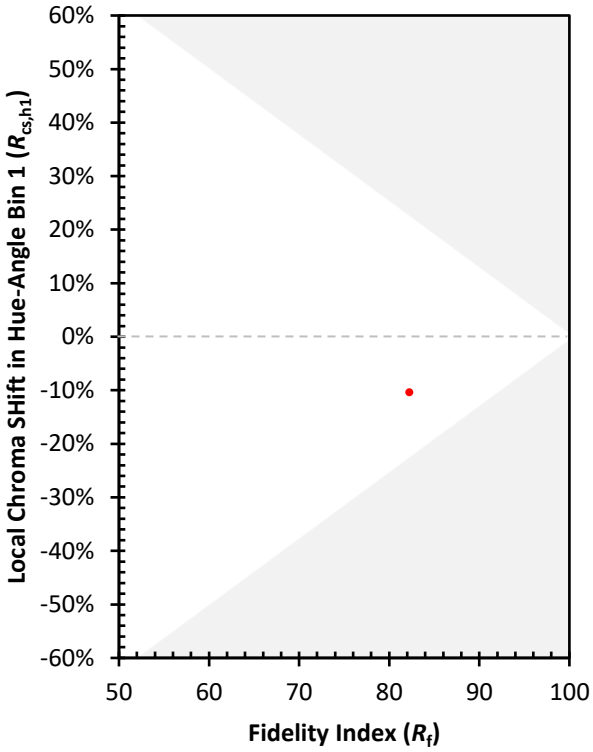


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Measure Comparisons





(END OF REPORT)