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: P1501506

Luminaire Tested: GSS-SB4B-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:	P1501506
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB4B-827-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 148W 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:	19015.2 lumens
Efficiency:	N/A
Efficacy:	128.5 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G3

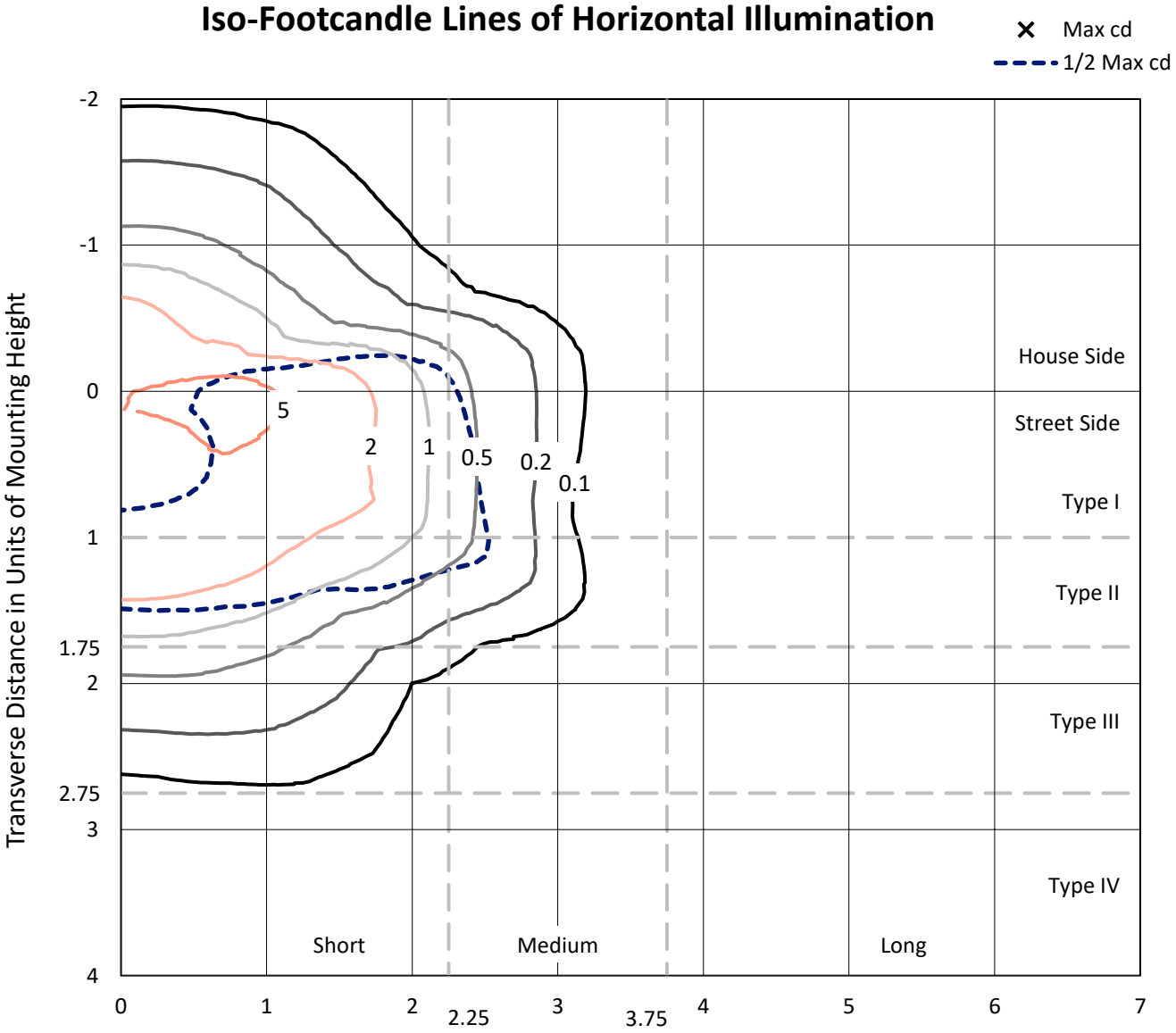
Input Watts (W):	148
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	13.6%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



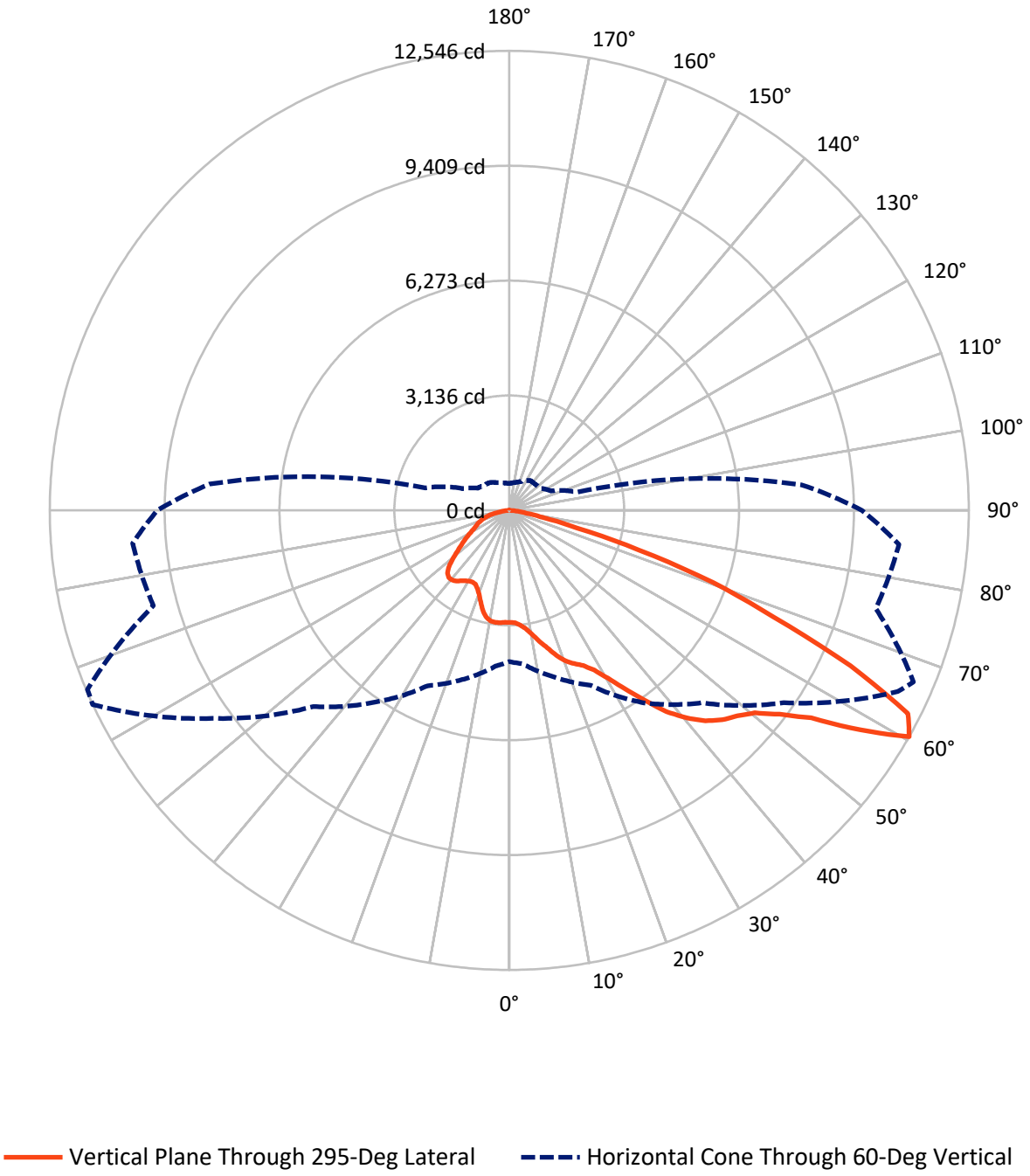
Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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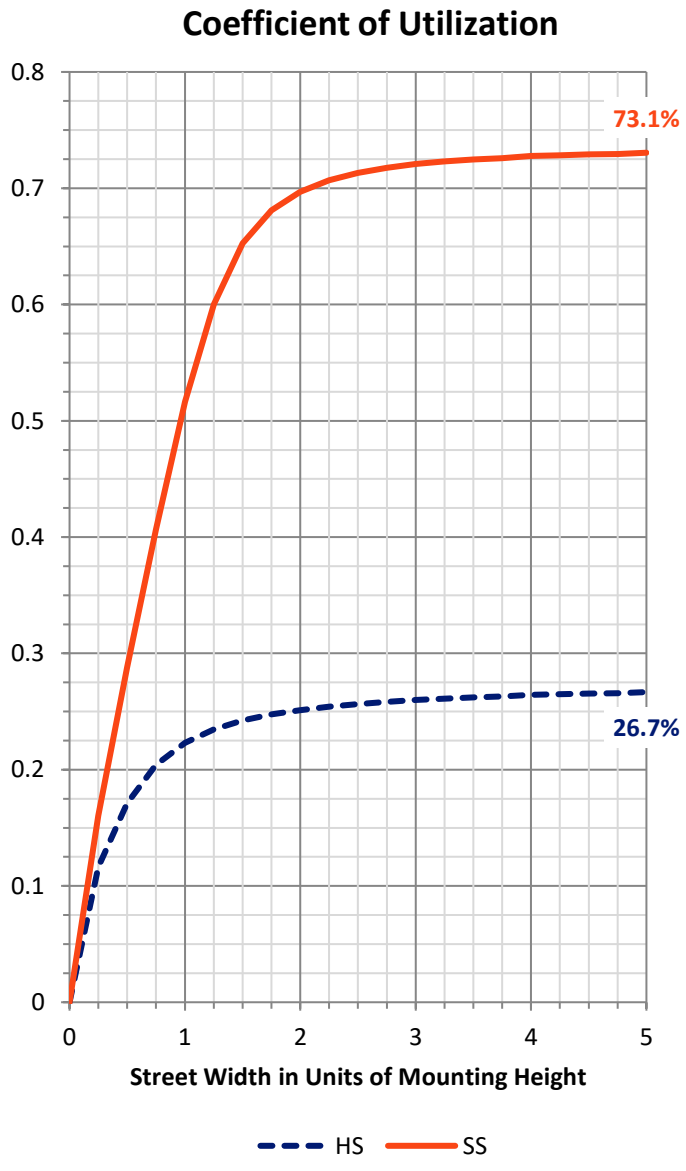
REPORT NUMBER: P1501506
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5113.4	0.0	5113.4
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	13901.8	0.0	13901.8
	% Fixture	73.1	0.0	73.1
Total	Lumens	19015.2	0.0	19015.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.7	1.5
10°-20°	826.9	4.3
20°-30°	1566.3	8.2
30°-40°	2761.4	14.5
40°-50°	4083.8	21.5
50°-60°	4795.5	25.2
60°-70°	3474.5	18.3
70°-80°	1071.5	5.6
80°-90°	147.5	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°	19015.2	100.0
0°-180°	19015.2	100.0



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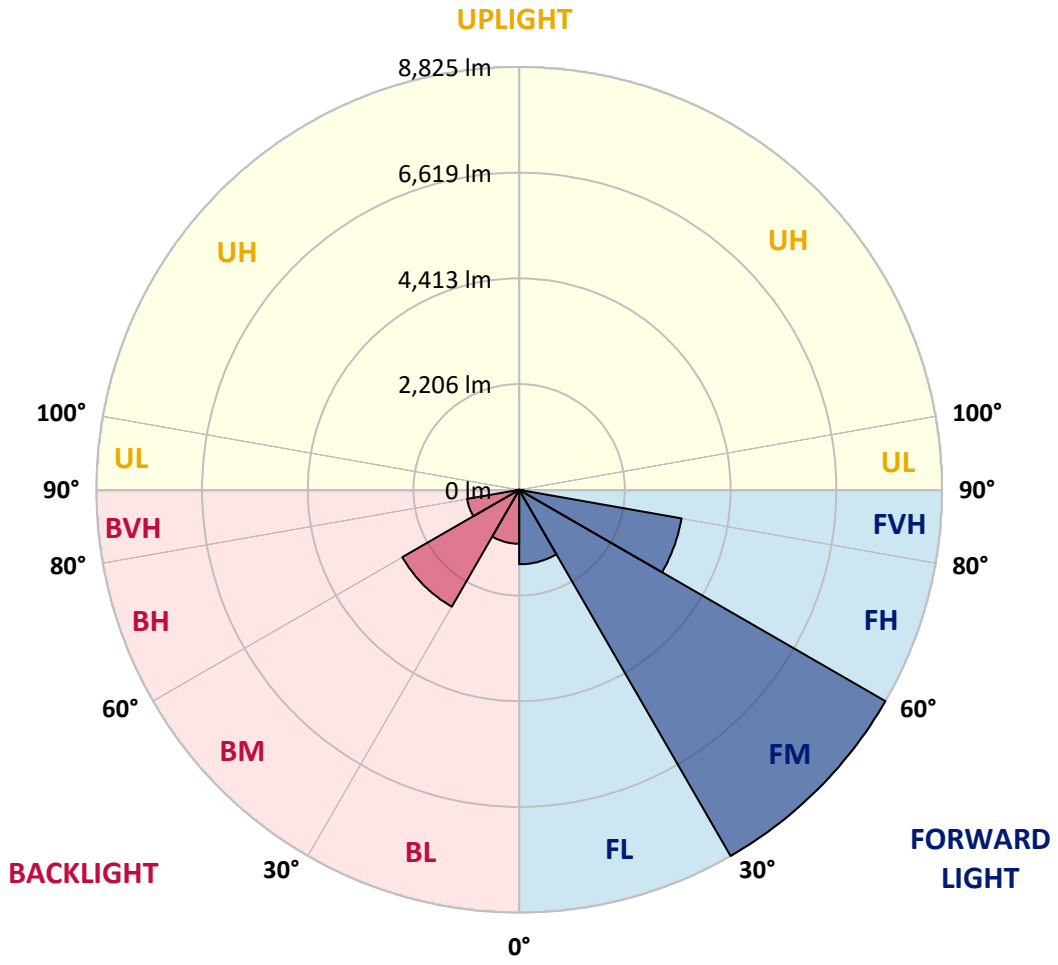
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1554.8	8.2			
FM	(30°-60°)	8825.1	46.4			
FH	(60°-80°)	3442.3	18.1			G2/5000
FVH	(80°-90°)	79.6	0.4			G1/100
BL	(0°-30°)	1126.1	5.9	B3/2500		
BM	(30°-60°)	2815.6	14.8	B3/5000		
BH	(60°-80°)	1103.7	5.8	B3/2500		G3/2500
BVH	(80°-90°)	67.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3059.5	3059.5	3059.5	3059.5	3059.5	3059.5	3059.5	3059.5	3059.5	3059.5	3059.5
2.5°	3120.1	3128.8	3115.8	3124.5	3124.5	3111.5	3107.1	3089.8	3098.5	3094.1	3089.8
5°	3193.8	3198.1	3189.5	3202.5	3202.5	3206.8	3202.5	3180.8	3180.8	3180.8	3172.1
7.5°	3172.1	3172.1	3176.5	3219.8	3263.1	3319.5	3319.5	3310.8	3319.5	3315.1	3276.1
10°	2990.1	3007.4	3046.5	3154.8	3258.8	3380.1	3462.5	3488.5	3488.5	3492.8	3427.8
12.5°	2665.1	2678.1	2769.1	2933.8	3150.5	3371.5	3570.8	3700.8	3713.8	3735.5	3648.8
15°	2374.8	2383.4	2448.4	2617.4	2864.4	3254.5	3631.5	3900.2	3943.5	4034.5	3904.5
17.5°	2400.8	2396.4	2413.8	2478.8	2656.4	3063.8	3618.5	4134.2	4212.2	4372.5	4259.8
20°	2556.8	2556.8	2569.8	2582.8	2647.8	2925.1	3523.1	4324.8	4476.5	4788.5	4658.5
22.5°	2803.8	2803.8	2799.4	2821.1	2821.1	2985.8	3527.5	4467.8	4693.2	5252.2	5126.5
25°	3146.1	3128.8	3128.8	3137.5	3098.5	3215.5	3635.8	4615.2	4909.9	5802.6	5694.2
27.5°	3531.8	3544.8	3536.1	3505.8	3453.8	3544.8	3895.8	4844.9	5152.5	6383.2	6339.9
30°	3952.2	3956.5	3965.2	3947.8	3904.5	3969.5	4303.2	5191.5	5473.2	6989.9	7085.3
32.5°	4363.8	4424.5	4402.8	4359.5	4376.8	4493.8	4805.9	5659.6	5949.9	7553.3	7891.3
35°	4888.2	4909.9	4996.5	4836.2	4840.5	5039.9	5447.2	6274.9	6556.6	8138.3	8697.3
37.5°	5650.9	5689.9	5650.9	5399.5	5360.5	5637.9	6071.2	6881.6	7085.3	8580.3	9447.0
40°	6400.6	6448.2	6513.3	6218.6	5971.6	6201.2	6660.6	7345.3	7557.6	8823.0	9945.4
42.5°	7020.3	7098.3	7028.9	6942.3	6716.9	6760.3	7072.3	7705.0	7917.3	9130.7	10448.1
45°	7544.6	7557.6	7588.0	7527.3	7414.6	7375.6	7423.3	8021.3	8255.3	9269.4	10695.1
47.5°	7761.3	7817.6	7843.6	7947.6	8064.6	7986.6	7722.3	8168.6	8381.0	9260.7	10773.1
50°	7644.3	7700.6	7839.3	8086.3	8368.0	8506.7	8073.3	8372.3	8610.7	9416.7	10933.4
52.5°	7336.6	7397.3	7622.6	7904.3	8376.7	8693.0	8567.3	8797.0	9026.7	9694.0	11202.1
55°	6591.3	6682.3	6998.6	7466.6	8116.6	8593.3	9087.4	9421.0	9672.4	10027.7	11479.4
57.5°	5507.9	5603.2	5958.6	6660.6	7635.6	8181.6	9239.0	10591.1	10703.7	10426.4	11505.4
60°	*4125.5*	*4203.5*	*4706.2*	*5269.5*	*6413.6*	*7427.6*	*9152.4*	*11700.5*	*11986.5*	*10357.1*	*10677.7*
62.5°	3267.5	3362.8	3809.1	4069.2	4888.2	6136.2	8849.0	12008.1	12255.1	9785.0	9525.0
65°	2552.4	2617.4	3033.5	3406.1	3605.5	4190.5	7583.6	10504.4	10725.4	8853.3	7861.0
67.5°	1685.7	1785.4	2279.4	2790.8	2894.8	2665.1	5217.5	8082.0	8186.0	7037.6	5910.9
70°	1209.0	1256.7	1625.1	2171.1	2327.1	1785.4	2842.8	6118.9	6149.2	4723.5	3982.5
72.5°	823.4	832.0	1105.0	1664.1	1854.7	1295.7	1564.4	4030.2	3926.2	2331.4	2279.4
75°	559.0	567.7	706.4	1109.4	1313.1	901.4	1018.4	2197.1	2110.4	1287.0	1382.4
77.5°	377.0	385.7	485.4	745.4	875.4	624.0	745.4	1161.4	1139.7	853.7	741.0
80°	286.0	299.0	359.7	476.7	611.0	364.0	424.7	550.4	559.0	455.0	377.0
82.5°	160.3	177.7	216.7	242.7	394.3	203.7	203.7	329.3	316.3	281.7	203.7
85°	69.3	73.7	86.7	91.0	160.3	86.7	73.7	143.0	147.3	138.7	65.0
87.5°	13.0	13.0	13.0	13.0	13.0	13.0	13.0	17.3	17.3	17.3	17.3
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°	3059.5	3059.5	3059.5	3059.5	3059.5	3059.5	3059.5	3059.5	3059.5	3059.5	3059.5
2.5°	3068.1	3094.1	3068.1	3055.1	3055.1	3033.5	3024.8	3024.8	2994.4	3007.4	2998.8
5°	3137.5	3146.1	3115.8	3076.8	3024.8	2981.4	2920.8	2842.8	2795.1	2790.8	2795.1
7.5°	3245.8	3250.1	3167.8	3081.1	2951.1	2795.1	2608.8	2457.1	2322.8	2301.1	2327.1
10°	3397.5	3388.8	3267.5	3063.8	2790.8	2461.4	2175.4	2036.7	1958.7	1954.4	1950.1
12.5°	3601.1	3544.8	3358.5	2990.1	2513.4	2132.1	1984.7	1976.1	1997.7	2015.1	2019.4
15°	3835.1	3761.5	3432.1	2847.1	2231.8	2010.7	2019.4	2093.1	2119.1	2136.4	2136.4
17.5°	4125.5	4030.2	3514.5	2643.4	2088.7	2036.7	2097.4	2166.8	2210.1	2227.4	2223.1
20°	4511.2	4311.8	3579.5	2448.4	2049.7	2080.1	2132.1	2201.4	2244.8	2266.4	2266.4
22.5°	4896.9	4649.8	3592.5	2314.1	2049.7	2084.4	2132.1	2201.4	2249.1	2270.8	2266.4
25°	5421.2	5083.2	3596.8	2218.8	2054.1	2062.7	2106.1	2166.8	2236.1	2257.8	2266.4
27.5°	5980.2	5559.9	3618.5	2197.1	2036.7	2032.4	2062.7	2119.1	2188.4	2244.8	2249.1
30°	6673.6	6097.2	3627.1	2218.8	2041.1	1984.7	2006.4	2062.7	2136.4	2192.8	2210.1
32.5°	7354.0	6595.6	3609.8	2266.4	2049.7	1954.4	1958.7	1993.4	2071.4	2110.4	2140.7
35°	8073.3	7124.3	3579.5	2331.4	2054.1	1941.4	1902.4	1919.7	1971.7	1976.1	1989.1
37.5°	8636.7	7518.6	3488.5	2418.1	2062.7	1893.7	1815.7	1802.7	1781.1	1737.7	1746.4
40°	9100.4	7783.0	3336.8	2461.4	2041.1	1837.4	1707.4	1646.7	1564.4	1499.4	1512.4
42.5°	9434.0	7960.6	3154.8	2470.1	2006.4	1742.1	1581.7	1477.7	1386.7	1317.4	1321.7
45°	9581.4	7943.3	2959.8	2405.1	1924.1	1625.1	1464.7	1365.1	1265.4	1191.7	1183.0
47.5°	9585.7	7774.3	2691.1	2249.1	1785.4	1490.7	1356.4	1248.0	1165.7	1113.7	1109.4
50°	9620.4	7679.0	2439.8	2023.7	1603.4	1347.7	1261.0	1152.7	1105.0	1031.4	1009.7
52.5°	9837.0	7835.0	2266.4	1776.7	1434.4	1243.7	1178.7	1083.4	1005.4	957.7	953.4
55°	10188.1	8103.6	2171.1	1590.4	1274.0	1144.0	1100.7	1018.4	949.0	901.4	888.4
57.5°	10231.4	8242.3	2058.4	1417.1	1144.0	1066.0	1048.7	957.7	858.0	823.4	810.4
60°	*9624.7*	*8008.3*	*1919.7*	*1256.7*	*1048.7*	*1005.4*	*996.7*	*875.4*	*793.0*	*749.7*	*732.4*
62.5°	8797.0	7423.3	1707.4	1109.4	975.0	944.7	910.0	814.7	710.7	663.0	650.0
65°	7189.3	6240.2	1451.7	1009.7	901.4	866.7	858.0	728.0	658.7	632.7	628.4
67.5°	5447.2	5013.9	1278.4	936.0	823.4	810.4	780.0	736.7	706.4	676.0	667.4
70°	3852.5	3618.5	1087.7	840.7	745.4	723.7	849.4	801.7	693.4	654.4	650.0
72.5°	2335.8	2270.8	940.4	754.0	641.4	676.0	784.4	723.7	624.0	576.4	559.0
75°	1473.4	1347.7	788.7	641.4	511.4	550.4	684.7	645.7	537.4	489.7	476.7
77.5°	801.7	745.4	593.7	524.4	403.0	446.4	598.0	533.0	429.0	468.0	416.0
80°	351.0	390.0	394.3	303.3	268.7	329.3	429.0	416.0	329.3	333.7	277.3
82.5°	169.0	221.0	255.7	208.0	151.7	195.0	286.0	238.3	221.0	208.0	199.3
85°	52.0	82.3	112.7	99.7	69.3	82.3	134.3	130.0	156.0	134.3	125.7
87.5°	17.3	17.3	13.0	13.0	13.0	17.3	21.7	13.0	4.3	4.3	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°	3059.5	3059.5	3059.5	3059.5	3059.5	3059.5	3059.5	3059.5	3059.5	3059.5	3059.5
2.5°	2994.4	2998.8	2998.8	3003.1	3003.1	3016.1	3033.5	3050.8	3037.8	3055.1	3059.5
5°	2786.4	2808.1	2825.4	2890.4	2942.4	2985.8	3033.5	3076.8	3089.8	3098.5	3120.1
7.5°	2296.8	2357.4	2470.1	2617.4	2782.1	2942.4	3050.8	3163.5	3180.8	3202.5	3232.8
10°	1954.4	1980.4	2058.4	2210.1	2504.8	2821.1	3085.5	3263.1	3336.8	3380.1	3410.5
12.5°	2010.7	1993.4	1980.4	2002.1	2192.8	2600.1	3063.8	3406.1	3544.8	3592.5	3631.5
15°	2145.1	2127.7	2080.1	2019.4	2041.1	2366.1	2990.1	3540.5	3761.5	3839.5	3921.8
17.5°	2223.1	2205.8	2166.8	2101.7	2045.4	2171.1	2851.4	3661.8	4103.8	4199.2	4316.2
20°	2266.4	2249.1	2210.1	2145.1	2080.1	2097.4	2673.8	3813.5	4493.8	4645.5	4818.9
22.5°	2275.1	2253.4	2210.1	2145.1	2106.1	2093.1	2504.8	3904.5	4914.2	5148.2	5347.5
25°	2270.8	2231.8	2175.4	2127.7	2106.1	2101.7	2387.8	3956.5	5369.2	5741.9	5967.2
27.5°	2240.4	2192.8	2136.4	2101.7	2093.1	2119.1	2335.8	4017.2	5902.2	6378.9	6738.6
30°	2205.8	2136.4	2067.1	2054.1	2075.7	2158.1	2379.1	4038.8	6461.2	7072.3	7440.6
32.5°	2114.7	2062.7	1993.4	1989.1	2041.1	2188.4	2478.8	4008.5	6955.3	7765.6	8229.3
35°	1984.7	1954.4	1915.4	1928.4	2010.7	2214.4	2548.1	3913.2	7406.0	8411.3	8953.0
37.5°	1755.1	1776.7	1798.4	1828.7	1932.7	2210.1	2578.4	3761.5	7778.6	8927.0	9620.4
40°	1499.4	1573.1	1642.4	1720.4	1859.1	2175.4	2587.1	3575.1	7995.3	9317.0	10214.1
42.5°	1339.1	1408.4	1495.1	1607.7	1759.4	2097.4	2578.4	3367.1	8064.6	9585.7	10591.1
45°	1191.7	1274.0	1382.4	1499.4	1672.7	1984.7	2500.4	3141.8	8099.3	9711.4	10751.4
47.5°	1113.7	1161.4	1261.0	1378.1	1560.1	1846.1	2348.8	2977.1	8047.3	9737.4	10946.4
50°	1022.7	1087.7	1152.7	1265.4	1443.1	1672.7	2166.8	2881.8	8134.0	9993.1	11254.1
52.5°	953.4	988.0	1057.4	1161.4	1291.4	1512.4	1993.4	2803.8	8372.3	10253.1	11574.8
55°	901.4	940.4	983.7	1070.4	1170.0	1352.1	1815.7	2686.8	8649.7	10530.4	11895.5
57.5°	819.0	845.0	905.7	996.7	1061.7	1196.0	1607.7	2548.1	8628.0	10313.7	11340.8
60°	*745.4*	*771.4*	*836.4*	*927.4*	*966.4*	*1057.4*	*1404.1*	*2370.4*	*8212.0*	*9607.4*	*10318.1*
62.5°	663.0	693.4	771.4	836.4	871.0	940.4	1191.7	2045.4	7345.3	8545.7	9122.0
65°	628.4	645.7	697.7	775.7	771.4	836.4	1005.4	1607.7	5910.9	6530.6	7054.9
67.5°	667.4	693.4	684.7	706.4	693.4	728.0	901.4	1291.4	4645.5	4918.5	5221.9
70°	658.7	719.4	749.7	706.4	606.7	645.7	780.0	1031.4	3323.8	3297.8	3284.8
72.5°	576.4	637.0	723.7	767.0	593.7	537.4	676.0	892.7	2132.1	2123.4	1919.7
75°	489.7	533.0	637.0	693.4	511.4	433.4	580.7	758.4	1274.0	1291.4	1152.7
77.5°	450.7	429.0	533.0	611.0	416.0	333.7	468.0	572.0	702.0	710.7	658.7
80°	325.0	312.0	398.7	446.4	316.3	238.3	264.3	355.3	377.0	338.0	351.0
82.5°	208.0	212.3	238.3	286.0	195.0	130.0	182.0	238.3	203.7	164.7	195.0
85°	134.3	151.7	125.7	147.3	60.7	60.7	78.0	104.0	69.3	47.7	52.0
87.5°	0.0	0.0	8.7	17.3	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: P1501506
CATALOG NUMBER: GSS-SB4B-827-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	3059.5	3059.5	*3059.5*	3059.5	3059.5	3059.5	3059.5	3059.5	3059.5	3059.5
2.5°	3072.5	3068.1	*3068.1*	3076.8	3098.5	3107.1	3120.1	3115.8	3128.8	3120.1
5°	3133.1	3137.5	*3150.5*	3154.8	3167.8	3185.1	3189.5	3185.1	3193.8	3193.8
7.5°	3254.5	3271.8	*3263.1*	3284.8	3267.5	3245.8	3211.1	3185.1	3163.5	3172.1
10°	3458.1	3449.5	*3445.1*	3406.1	3328.1	3215.5	3124.5	3024.8	3007.4	2990.1
12.5°	3683.5	3674.8	*3674.8*	3540.5	3319.5	3085.5	2877.4	2721.4	2669.4	2665.1
15°	3999.8	3943.5	*3891.5*	3609.8	3167.8	2769.1	2526.4	2405.1	2374.8	2374.8
17.5°	4394.2	4246.8	*4160.2*	3557.8	2920.8	2561.1	2418.1	2387.8	2379.1	2400.8
20°	4883.9	4511.2	*4385.5*	3440.8	2829.8	2587.1	2517.8	2522.1	2526.4	2556.8
22.5°	5421.2	4753.8	*4545.8*	3440.8	2920.8	2751.8	2717.1	2764.8	2777.8	2803.8
25°	6019.2	4970.5	*4688.8*	3622.8	3189.5	3063.8	3020.4	3068.1	3102.8	3146.1
27.5°	6690.9	5195.9	*4935.9*	3952.2	3536.1	3458.1	3410.5	3432.1	3479.8	3531.8
30°	7293.3	5572.9	*5312.9*	4454.8	4008.5	3913.2	3830.8	3865.5	3917.5	3952.2
32.5°	7826.3	6032.2	*5811.2*	4983.5	4550.2	4385.5	4294.5	4285.8	4389.8	4363.8
35°	8316.0	6573.9	*6361.6*	5585.9	5100.5	4896.9	4775.5	4931.5	4862.2	4888.2
37.5°	8701.7	7137.3	*6968.3*	6162.2	5672.6	5395.2	5321.5	5512.2	5620.6	5650.9
40°	9018.0	7627.0	*7449.3*	6734.3	6196.9	5993.2	6110.2	6426.6	6413.6	6400.6
42.5°	9260.7	8047.3	*7852.3*	7167.6	6699.6	6738.6	6829.6	7041.9	7093.9	7020.3
45°	9369.0	8311.7	*8155.6*	7510.0	7271.6	7497.0	7536.0	7627.0	7592.3	7544.6
47.5°	9494.7	8545.7	*8381.0*	7822.0	7891.3	8112.3	8034.3	7960.6	7835.0	7761.3
50°	9707.0	8823.0	*8684.3*	8277.0	8528.3	8454.7	8151.3	7986.6	7731.0	7644.3
52.5°	10110.1	9347.4	*9243.4*	8996.3	8827.3	8402.7	8034.3	7739.6	7453.6	7336.6
55°	10469.7	10058.1	*9997.4*	9668.0	8736.3	8129.6	7635.6	7180.6	6690.9	6591.3
57.5°	10677.7	11236.8	*11306.1*	9954.1	8320.3	7510.0	6781.9	6053.9	5590.2	5507.9
60°	*10058.1*	*12510.8*	*12545.5*	*9897.7*	*7570.6*	*6391.9*	*5282.5*	*4766.9*	*4268.5*	*4125.5*
62.5°	9204.4	12246.5	*12216.1*	9559.7	6027.9	4662.8	4012.8	3770.1	3384.5	3267.5
65°	7913.0	10201.1	*10235.7*	8259.7	4008.5	3371.5	3371.5	3063.8	2634.8	2552.4
67.5°	6448.2	7865.3	*7787.3*	5356.2	2461.4	2699.8	2829.8	2387.8	1785.4	1685.7
70°	4190.5	6006.2	*5897.9*	3089.8	1547.1	2249.1	2227.4	1794.1	1278.4	1209.0
72.5°	1802.7	3471.1	*3692.1*	1577.4	1165.7	1811.4	1776.7	1256.7	853.7	823.4
75°	1087.7	1746.4	*1902.4*	1005.4	849.4	1365.1	1230.7	797.4	580.7	559.0
77.5°	689.0	957.7	*949.0*	754.0	637.0	923.0	827.7	550.4	394.3	377.0
80°	398.7	472.4	*489.7*	472.4	429.0	658.7	528.7	398.7	307.7	286.0
82.5°	255.7	294.7	*299.0*	229.7	238.3	424.7	286.0	234.0	177.7	160.3
85°	112.7	125.7	*121.3*	78.0	78.0	173.3	99.7	95.3	69.3	69.3
87.5°	4.3	8.7	*4.3*	4.3	4.3	17.3	8.7	13.0	13.0	13.0
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: SP1-2407-184-8

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

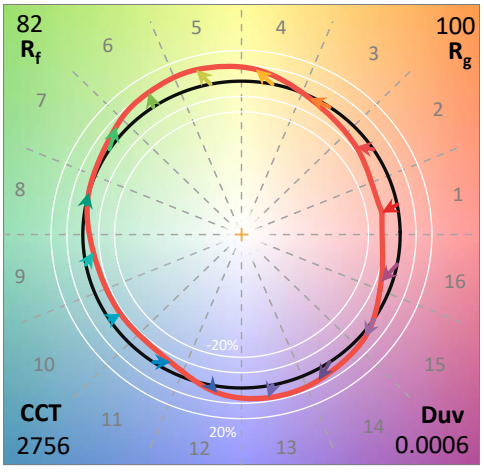
Test Information

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

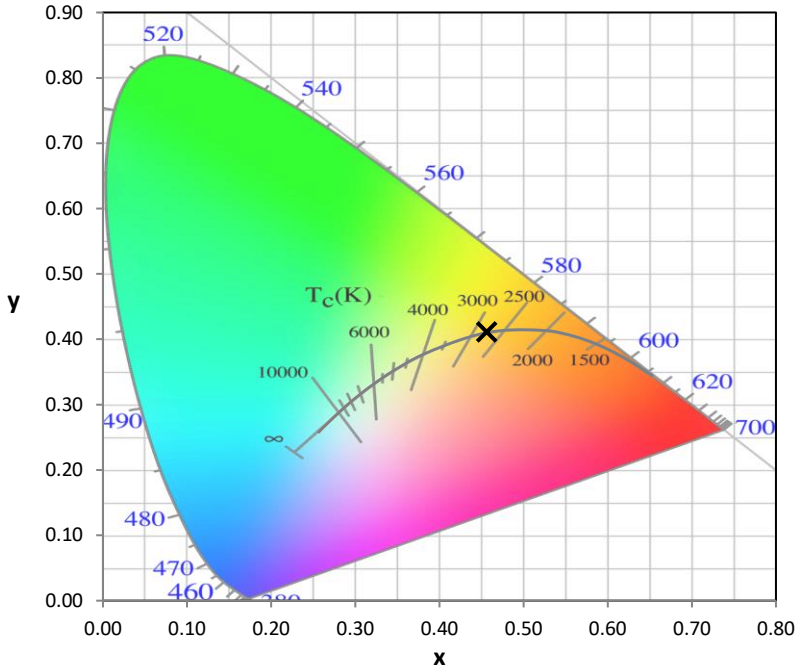
Stabilization Time:	29M
Operation Time:	1H 29M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-8

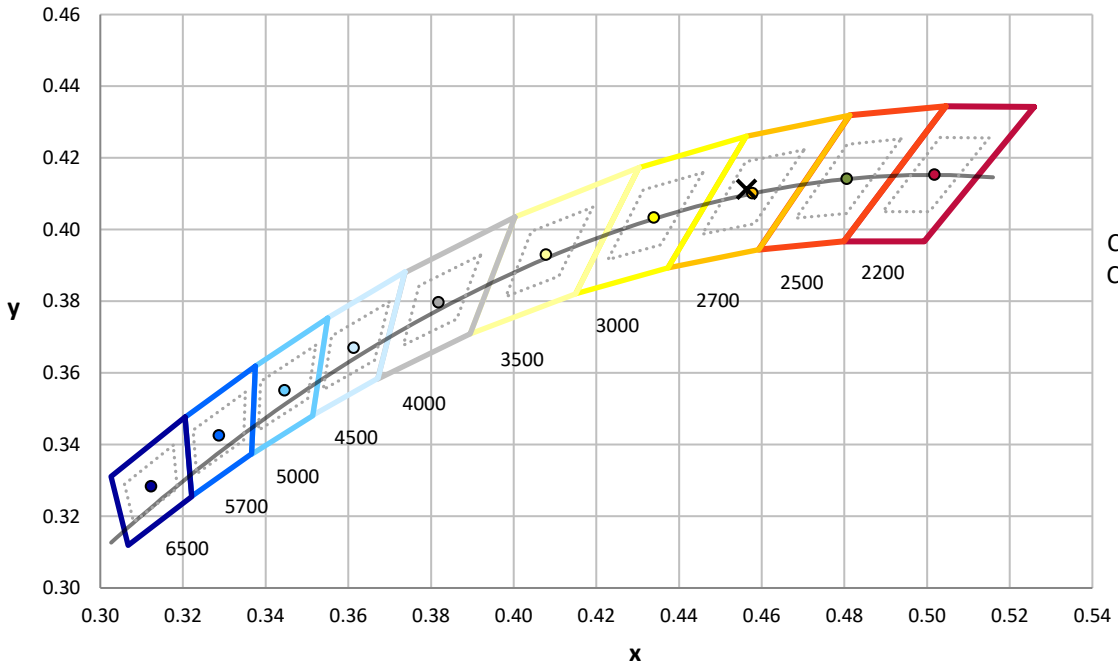
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

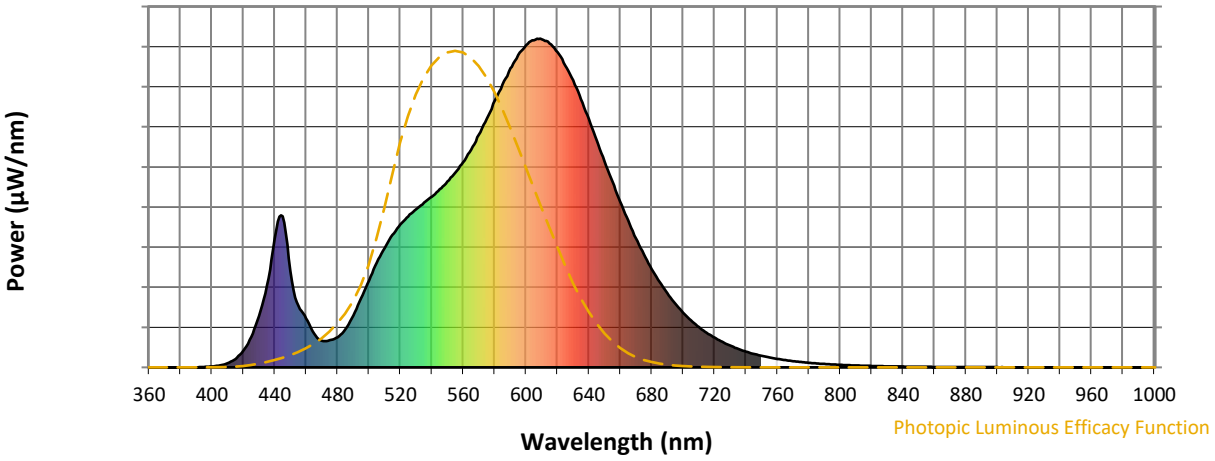


CCT = 2756K
CIE x = 0.4563
CIE y = 0.4112
Duv = 0.0006

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-8

Photopic Flux vs. Wavelength

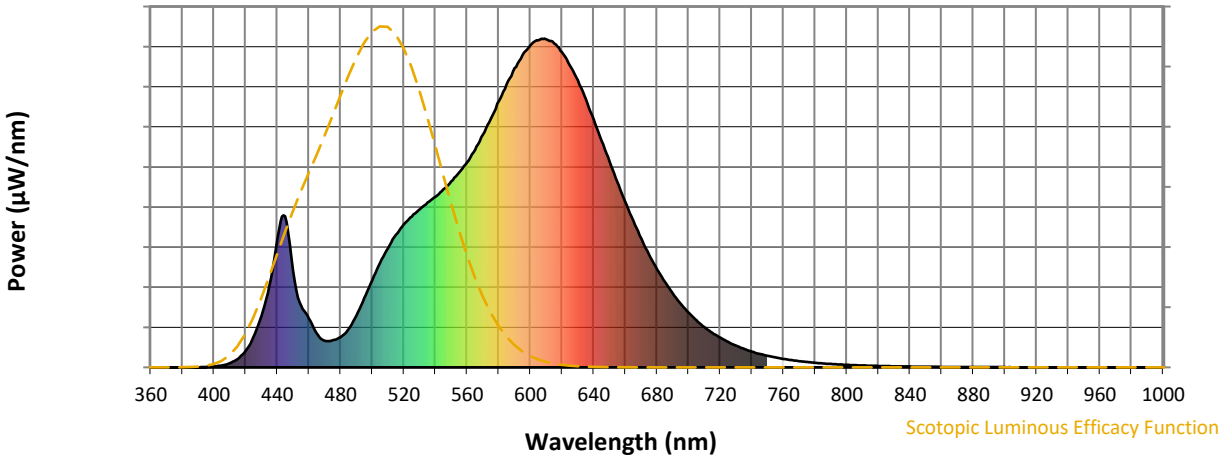


Photopic Lumens: NR

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

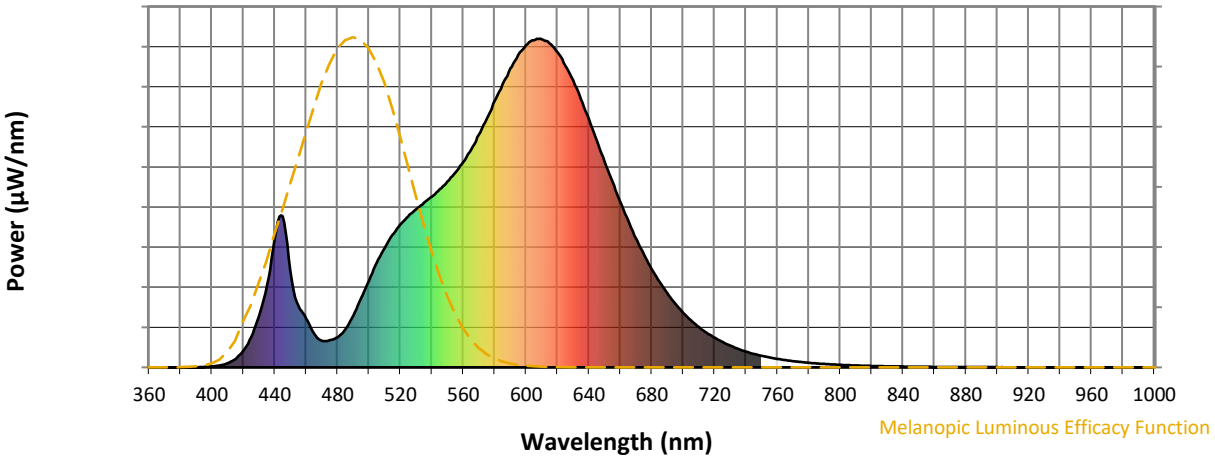


Scotopic Lumens: NR **S/P: 1.2**

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			

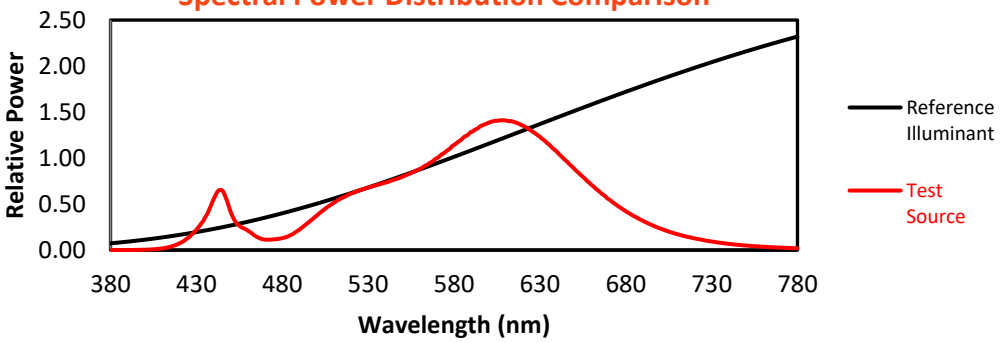
REPORT NUMBER: SP1-2407-184-8

TM-30-18

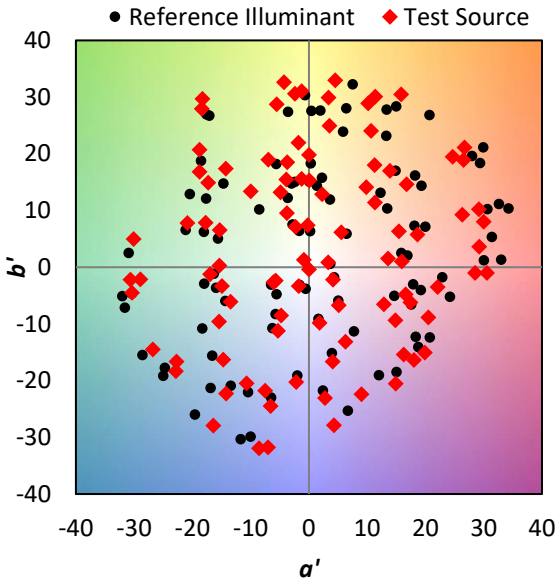
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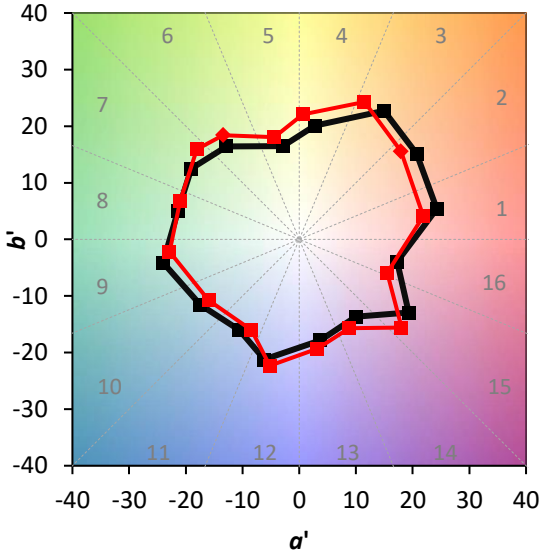
R_f = 82.2
R_g = 99.9
CIE R_a = 82.9
R_9 = 10.8

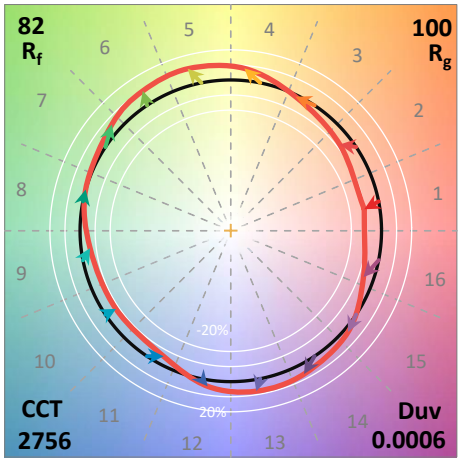
Spectral Power Distribution Comparison

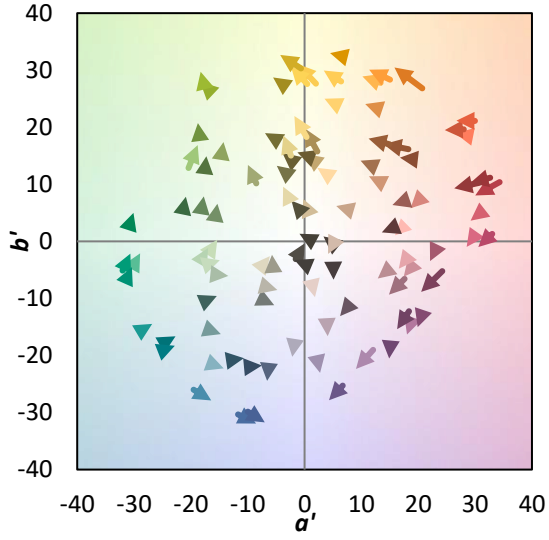


Color Vector Graphics







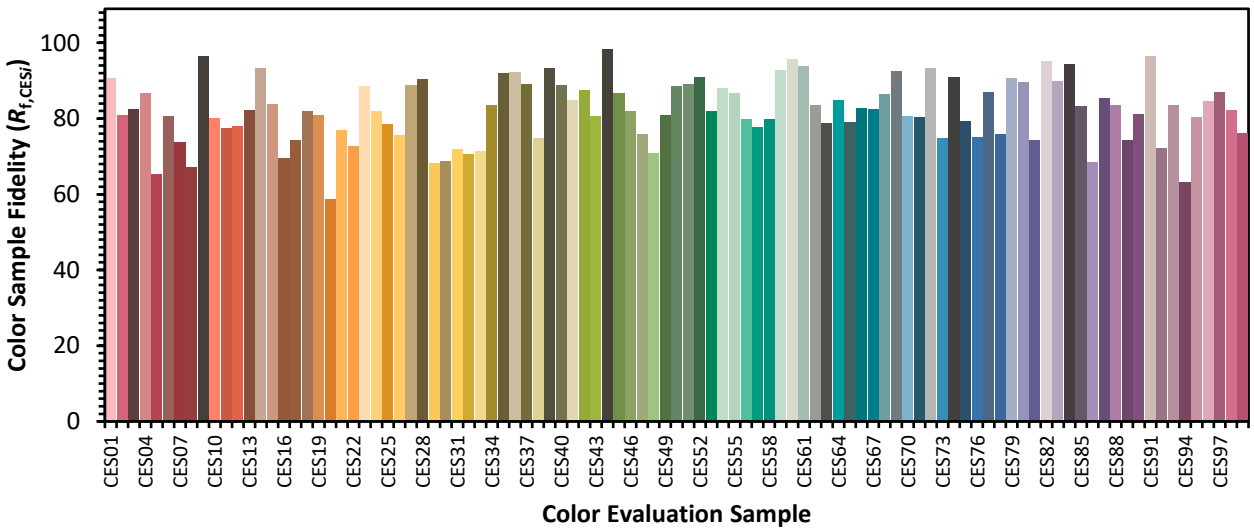


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Individual Sample Fidelity Index ($R_{f,i}$)

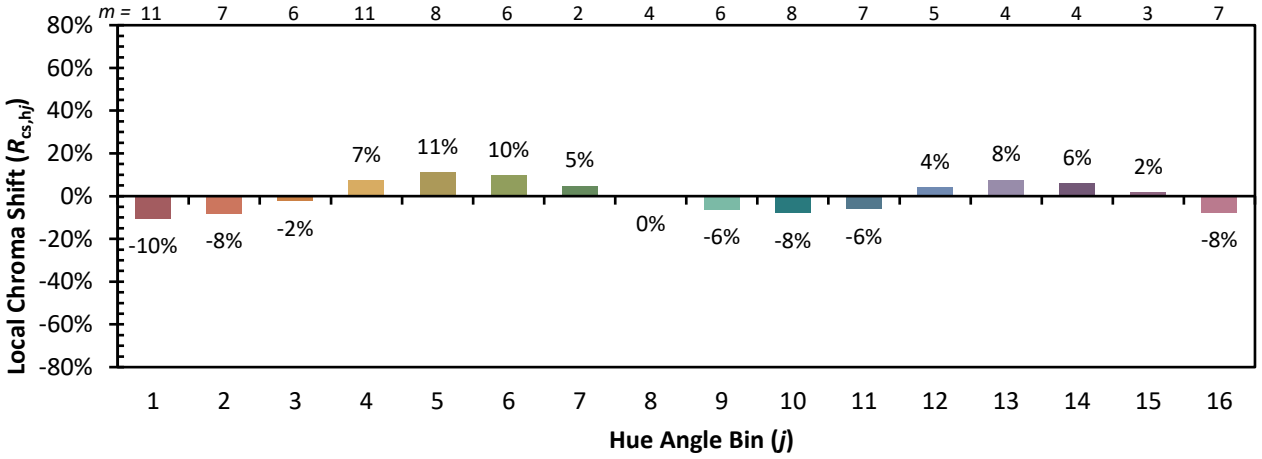
CES01 = 86	CES26 = 76	CES51 = 89	CES76 = 75
CES02 = 63	CES27 = 89	CES52 = 91	CES77 = 87
CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 78	CES82 = 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	

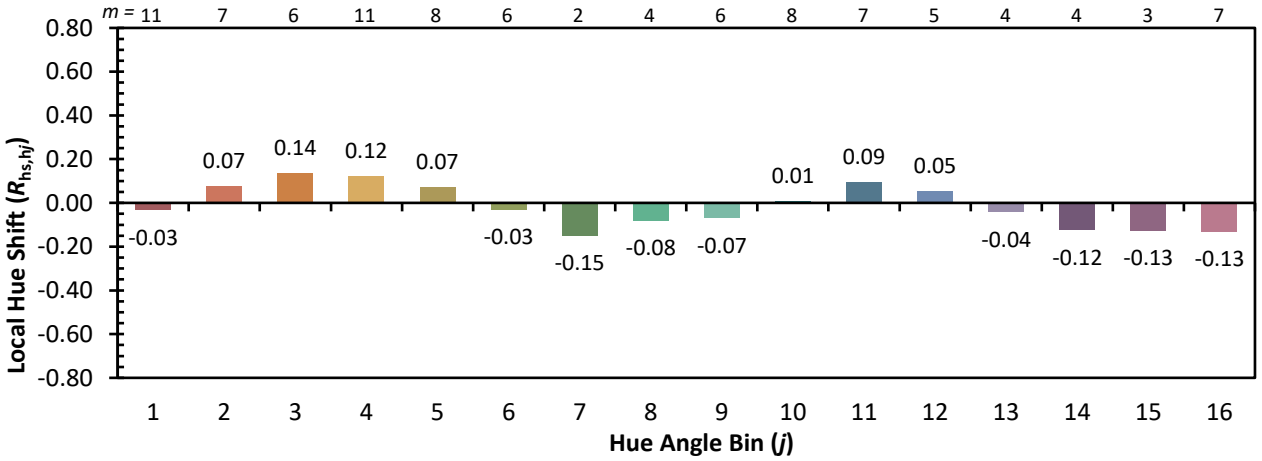


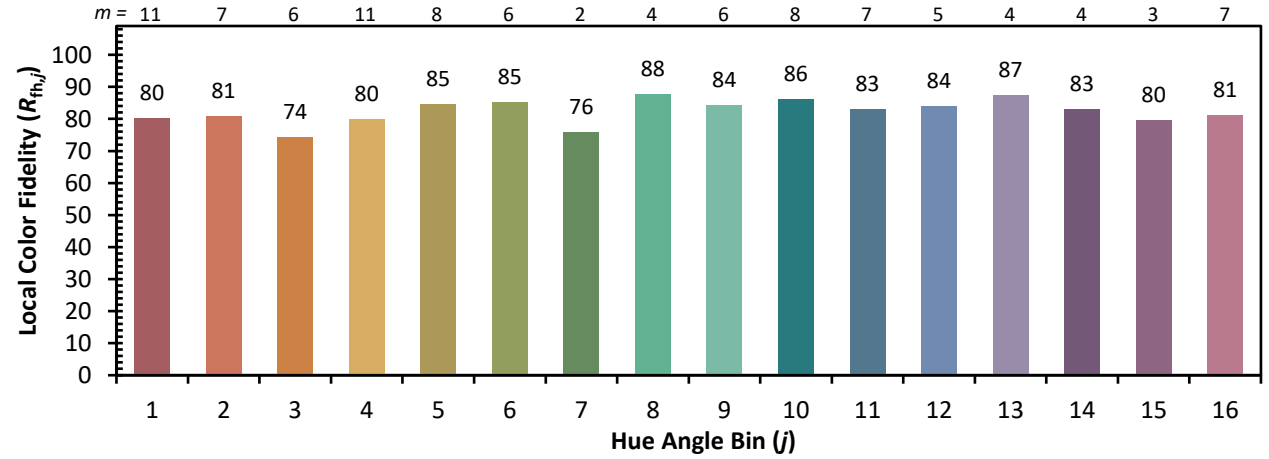
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Color Rendition by Hue-Angle Bin



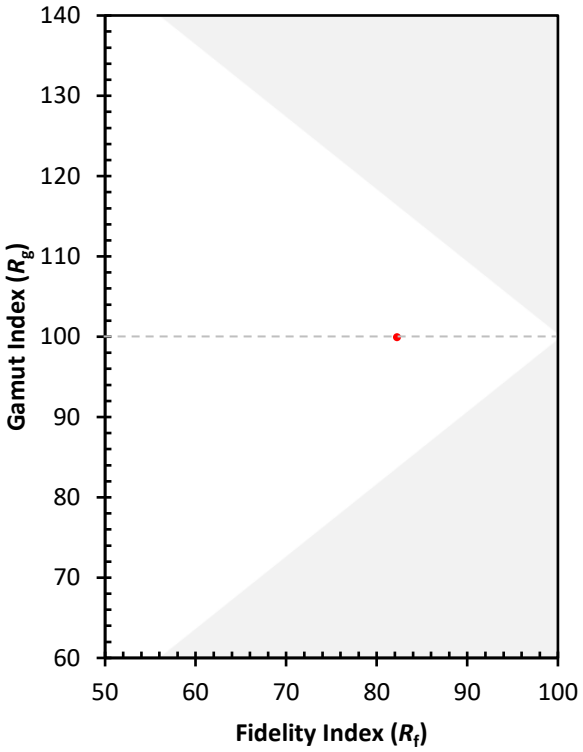


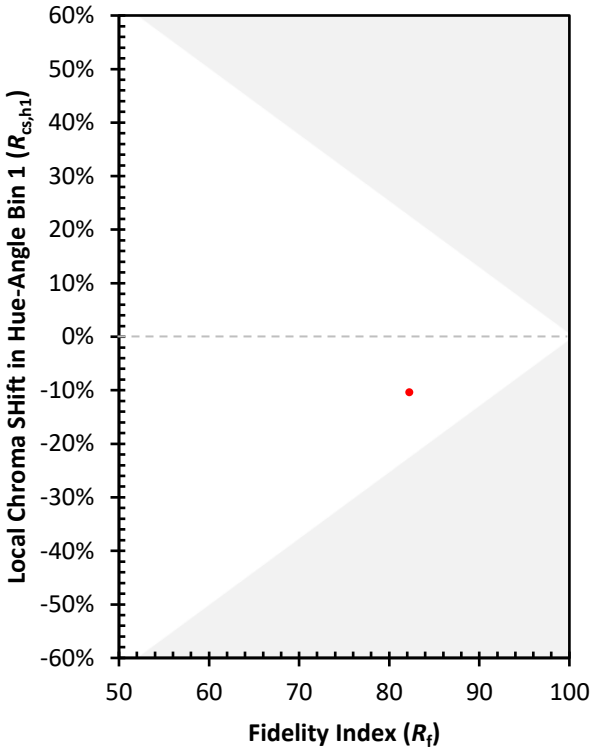


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Measure Comparisons





(END OF REPORT)