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: P1501548

Luminaire Tested: GSS-SB2D-835-U-T2LG

Issue Date: 07/20/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501548
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB2D-835-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 2SQUARE 147W 80CRI 3500K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(52) 3500K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	17558.7 lumens
Efficiency:	N/A
Efficacy:	119.4 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G3

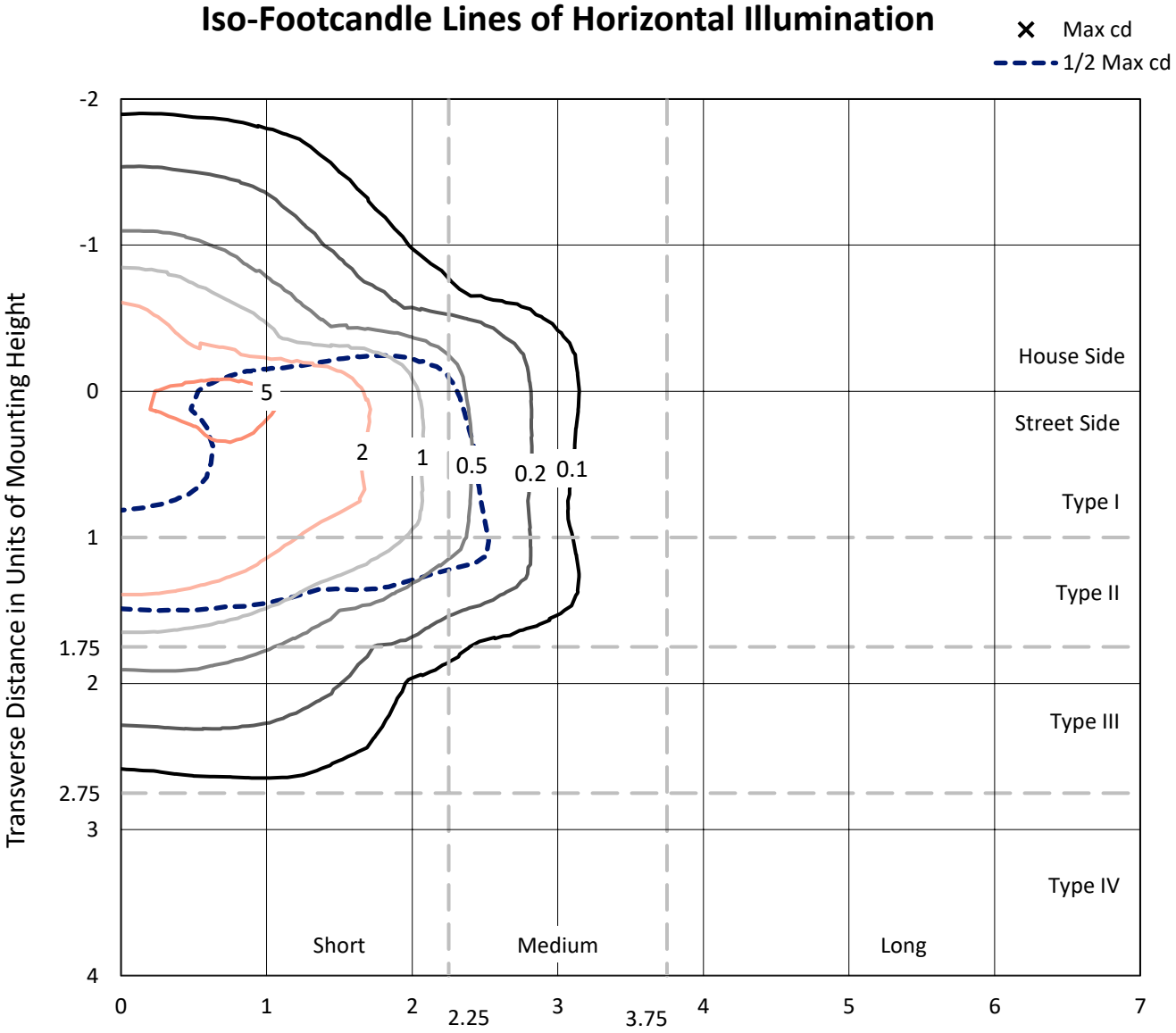
Input Watts (W):	147
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	3.1%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



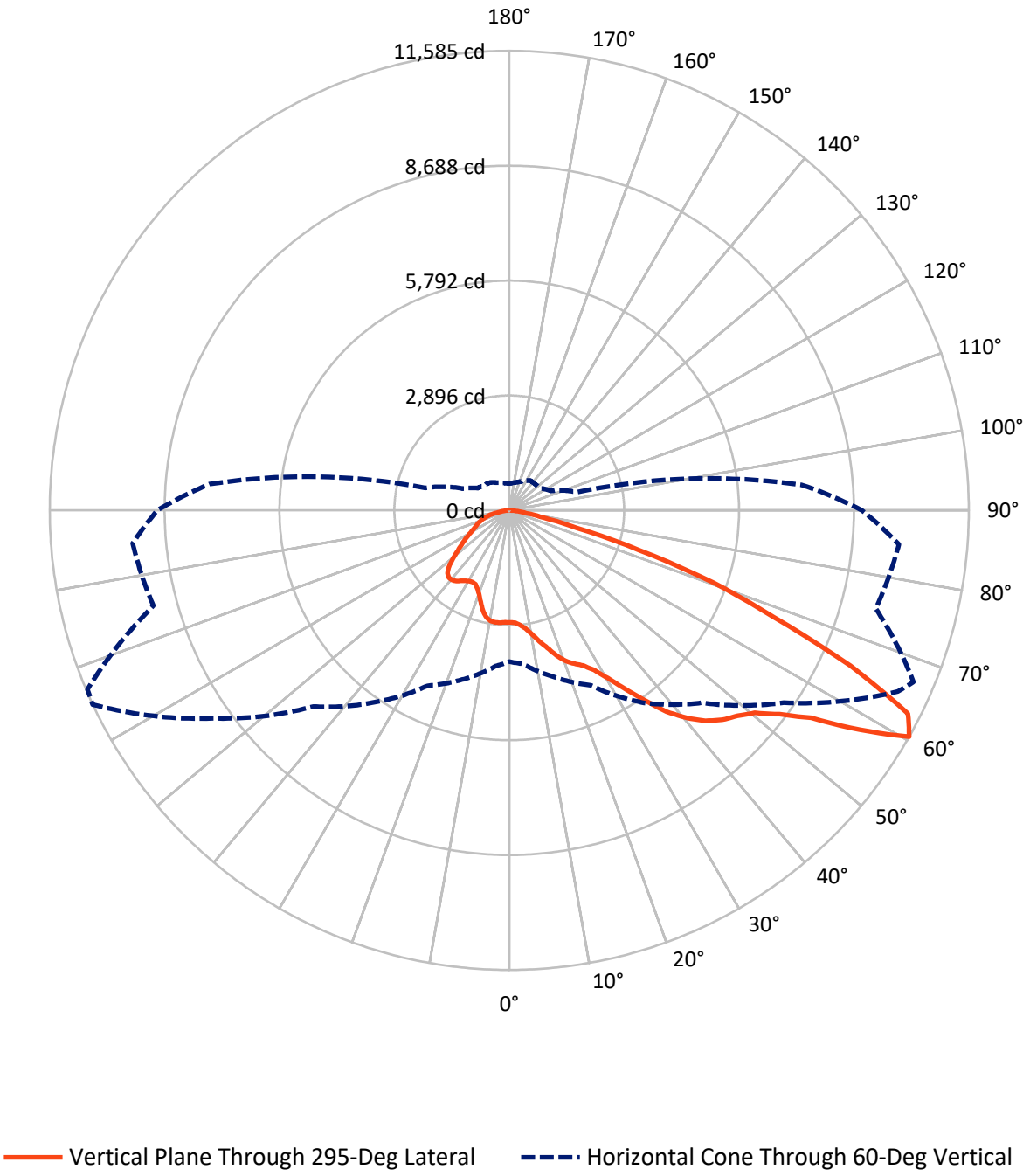
Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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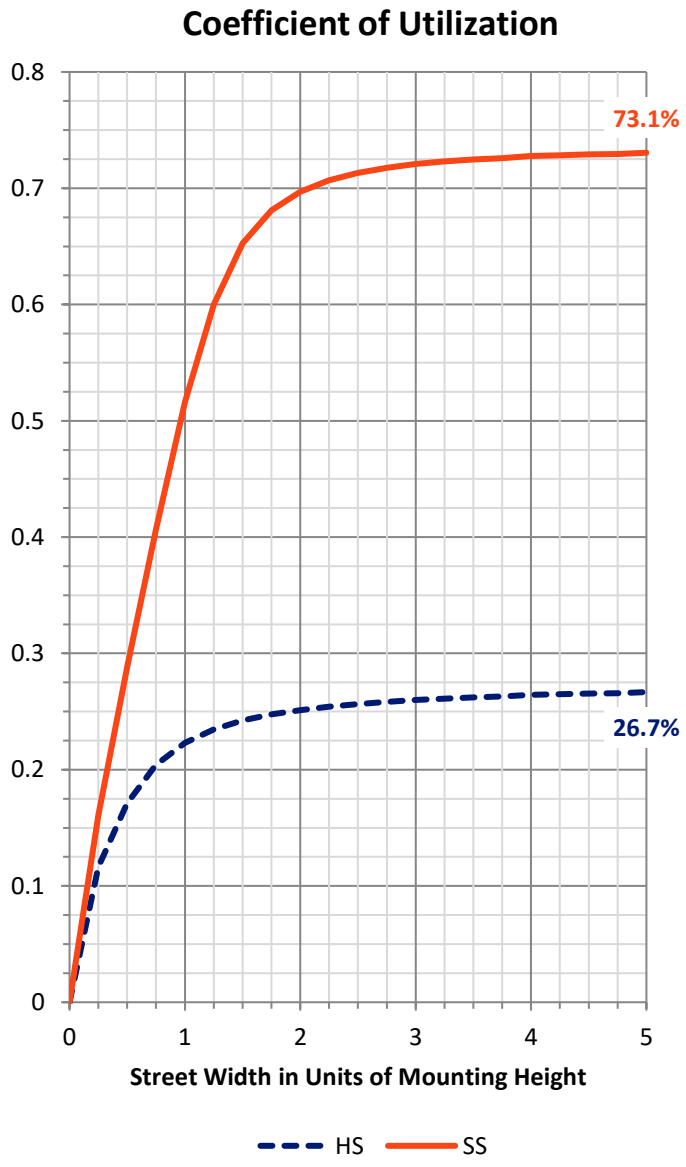
REPORT NUMBER: P1501548
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4721.8	0.0	4721.8
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	12837.0	0.0	12837.0
	% Fixture	73.1	0.0	73.1
Total	Lumens	17558.7	0.0	17558.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.6	1.5
10°-20°	763.6	4.3
20°-30°	1446.4	8.2
30°-40°	2549.9	14.5
40°-50°	3771.0	21.5
50°-60°	4428.2	25.2
60°-70°	3208.4	18.3
70°-80°	989.4	5.6
80°-90°	136.2	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°	17558.7	100.0
0°-180°	17558.7	100.0



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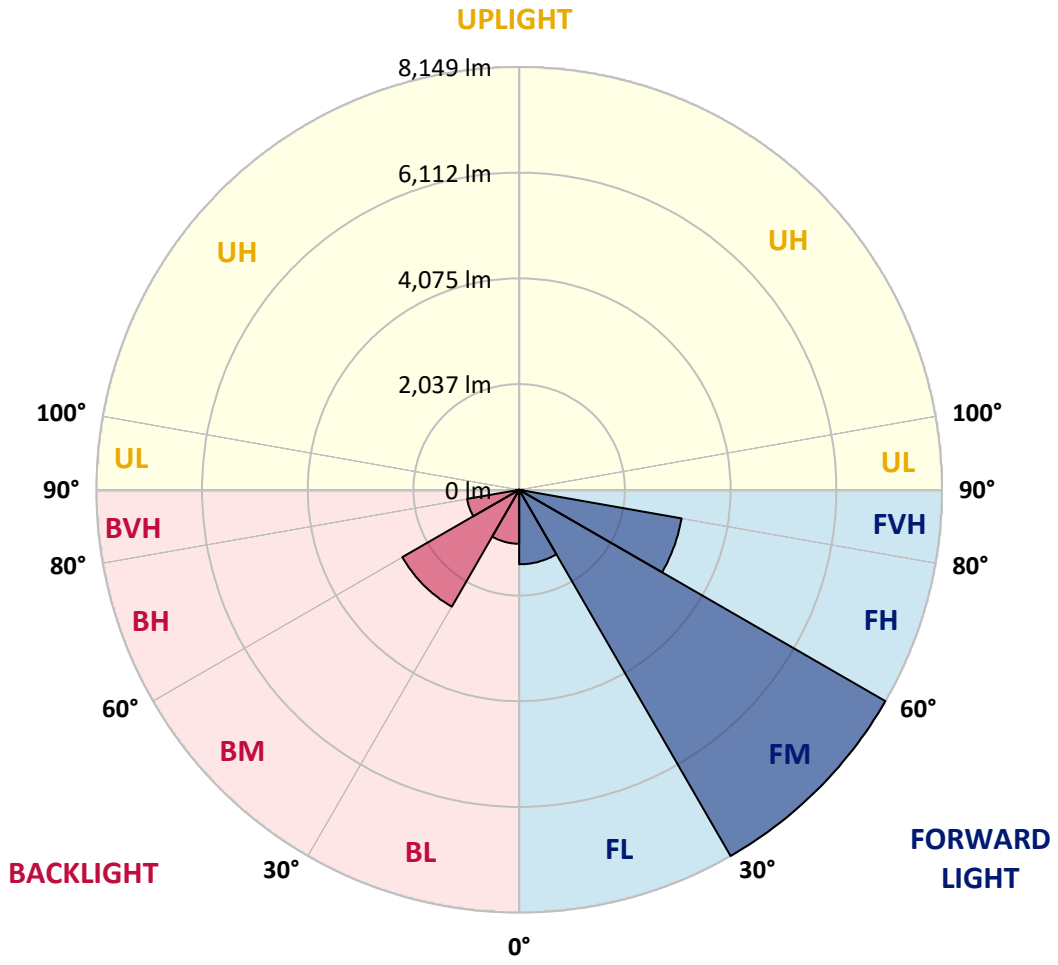
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1435.7	8.2			
FM	(30°-60°)	8149.1	46.4			
FH	(60°-80°)	3178.7	18.1			G2/5000
FVH	(80°-90°)	73.5	0.4			G1/100
BL	(0°-30°)	1039.9	5.9	B3/2500		
BM	(30°-60°)	2599.9	14.8	B3/5000		
BH	(60°-80°)	1019.2	5.8	B3/2500		G3/2500
BVH	(80°-90°)	62.7	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°	2825.1	2825.1	2825.1	2825.1	2825.1	2825.1	2825.1	2825.1	2825.1	2825.1	2825.1
2.5°	2881.1	2889.1	2877.1	2885.1	2885.1	2873.1	2869.1	2853.1	2861.1	2857.1	2853.1
5°	2949.2	2953.2	2945.2	2957.2	2957.2	2961.2	2957.2	2937.2	2937.2	2937.2	2929.2
7.5°	2929.2	2929.2	2933.2	2973.2	3013.2	3065.2	3065.2	3057.2	3065.2	3061.2	3025.2
10°	2761.1	2777.1	2813.1	2913.2	3009.2	3121.2	3197.3	3221.3	3221.3	3225.3	3165.3
12.5°	2461.0	2473.0	2557.0	2709.1	2909.2	3113.2	3297.3	3417.4	3429.4	3449.4	3369.3
15°	2192.9	2200.9	2260.9	2417.0	2645.0	3005.2	3353.3	3601.4	3641.4	3725.5	3605.4
17.5°	2216.9	2212.9	2228.9	2288.9	2453.0	2829.1	3341.3	3817.5	3889.5	4037.6	3933.6
20°	2360.9	2360.9	2372.9	2384.9	2445.0	2701.1	3253.3	3993.6	4133.6	4421.8	4301.7
22.5°	2589.0	2589.0	2585.0	2605.0	2605.0	2757.1	3257.3	4125.6	4333.7	4849.9	4733.9
25°	2905.2	2889.1	2889.1	2897.1	2861.1	2969.2	3357.3	4261.7	4533.8	5358.1	5258.1
27.5°	3261.3	3273.3	3265.3	3237.3	3189.3	3273.3	3597.4	4473.8	4757.9	5894.3	5854.3
30°	3649.4	3653.4	3661.4	3645.4	3605.4	3665.5	3973.6	4793.9	5054.0	6454.6	6542.6
32.5°	4029.6	4085.6	4065.6	4025.6	4041.6	4149.6	4437.8	5226.1	5494.2	6974.8	7286.9
35°	4513.8	4533.8	4613.8	4465.8	4469.8	4653.8	5030.0	5794.3	6054.4	7515.0	8031.2
37.5°	5218.1	5254.1	5218.1	4986.0	4950.0	5206.1	5606.2	6354.5	6542.6	7923.1	8723.5
40°	5910.3	5954.4	6014.4	5742.3	5514.2	5726.3	6150.4	6782.7	6978.8	8147.2	9183.6
42.5°	6482.6	6554.6	6490.6	6410.5	6202.5	6242.5	6530.6	7114.8	7310.9	8431.3	9647.8
45°	6966.8	6978.8	7006.8	6950.8	6846.7	6810.7	6854.7	7406.9	7623.0	8559.4	9875.9
47.5°	7166.8	7218.9	7242.9	7338.9	7446.9	7374.9	7130.8	7543.0	7739.1	8551.4	9947.9
50°	7058.8	7110.8	7238.9	7467.0	7727.1	7855.1	7455.0	7731.1	7951.1	8695.4	10096.0
52.5°	6774.7	6830.7	7038.8	7298.9	7735.1	8027.2	7911.1	8123.2	8335.3	8951.5	10344.1
55°	6086.4	6170.4	6462.6	6894.7	7495.0	7935.1	8391.3	8699.4	8931.5	9259.7	10600.2
57.5°	5086.0	5174.0	5502.2	6150.4	7050.8	7555.0	8531.4	9779.9	9883.9	9627.8	10624.2
60°	*3809.5*	*3881.5*	*4345.7*	*4865.9*	*5922.3*	*6858.7*	*8451.3*	*10804.3*	*11068.4*	*9563.8*	*9859.9*
62.5°	3017.2	3105.2	3517.4	3757.5	4513.8	5666.2	8171.2	11088.4	11316.5	9035.6	8795.5
65°	2356.9	2417.0	2801.1	3145.2	3329.3	3869.5	7002.8	9699.8	9903.9	8175.2	7258.9
67.5°	1556.6	1648.7	2104.8	2577.0	2673.1	2461.0	4817.9	7463.0	7559.0	6498.6	5458.2
70°	1116.4	1160.5	1500.6	2004.8	2148.9	1648.7	2625.0	5650.2	5678.2	4361.7	3677.5
72.5°	760.3	768.3	1020.4	1536.6	1712.7	1196.5	1444.6	3721.5	3625.4	2152.9	2104.8
75°	516.2	524.2	652.3	1024.4	1212.5	832.3	940.4	2028.8	1948.8	1188.5	1276.5
77.5°	348.1	356.1	448.2	688.3	808.3	576.2	688.3	1072.4	1052.4	788.3	684.3
80°	264.1	276.1	332.1	440.2	564.2	336.1	392.2	508.2	516.2	420.2	348.1
82.5°	148.1	164.1	200.1	224.1	364.1	188.1	188.1	304.1	292.1	260.1	188.1
85°	64.0	68.0	80.0	84.0	148.1	80.0	68.0	132.1	136.1	128.1	60.0
87.5°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	16.0	16.0	16.0	16.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2825.1	2825.1	2825.1	2825.1	2825.1	2825.1	2825.1	2825.1	2825.1	2825.1	2825.1
2.5°	2833.1	2857.1	2833.1	2821.1	2821.1	2801.1	2793.1	2793.1	2765.1	2777.1	2769.1
5°	2897.1	2905.2	2877.1	2841.1	2793.1	2753.1	2697.1	2625.0	2581.0	2577.0	2581.0
7.5°	2997.2	3001.2	2925.2	2845.1	2725.1	2581.0	2409.0	2268.9	2144.8	2124.8	2148.9
10°	3137.2	3129.2	3017.2	2829.1	2577.0	2272.9	2008.8	1880.7	1808.7	1804.7	1800.7
12.5°	3325.3	3273.3	3101.2	2761.1	2320.9	1968.8	1832.7	1824.7	1844.7	1860.7	1864.7
15°	3541.4	3473.4	3169.3	2629.0	2060.8	1856.7	1864.7	1932.8	1956.8	1972.8	1972.8
17.5°	3809.5	3721.5	3245.3	2441.0	1928.8	1880.7	1936.8	2000.8	2040.8	2056.8	2052.8
20°	4165.6	3981.6	3305.3	2260.9	1892.7	1920.8	1968.8	2032.8	2072.8	2092.8	2092.8
22.5°	4521.8	4293.7	3317.3	2136.8	1892.7	1924.8	1968.8	2032.8	2076.8	2096.8	2092.8
25°	5006.0	4693.9	3321.3	2048.8	1896.8	1904.8	1944.8	2000.8	2064.8	2084.8	2092.8
27.5°	5522.2	5134.0	3341.3	2028.8	1880.7	1876.7	1904.8	1956.8	2020.8	2072.8	2076.8
30°	6162.4	5630.2	3349.3	2048.8	1884.7	1832.7	1852.7	1904.8	1972.8	2024.8	2040.8
32.5°	6790.7	6090.4	3333.3	2092.8	1892.7	1804.7	1808.7	1840.7	1912.8	1948.8	1976.8
35°	7455.0	6578.6	3305.3	2152.9	1896.8	1792.7	1756.7	1772.7	1820.7	1824.7	1836.7
37.5°	7975.2	6942.7	3221.3	2232.9	1904.8	1748.7	1676.7	1664.7	1644.7	1604.6	1612.6
40°	8403.3	7186.8	3081.2	2272.9	1884.7	1696.7	1576.6	1520.6	1444.6	1384.5	1396.6
42.5°	8711.4	7350.9	2913.2	2280.9	1852.7	1608.6	1460.6	1364.5	1280.5	1216.5	1220.5
45°	8847.5	7334.9	2733.1	2220.9	1776.7	1500.6	1352.5	1260.5	1168.5	1100.4	1092.4
47.5°	8851.5	7178.8	2485.0	2076.8	1648.7	1376.5	1252.5	1152.5	1076.4	1028.4	1024.4
50°	8883.5	7090.8	2252.9	1868.7	1480.6	1244.5	1164.5	1064.4	1020.4	952.4	932.4
52.5°	9083.6	7234.9	2092.8	1640.6	1324.5	1148.5	1088.4	1000.4	928.4	884.4	880.3
55°	9407.7	7483.0	2004.8	1468.6	1176.5	1056.4	1016.4	940.4	876.3	832.3	820.3
57.5°	9447.7	7611.0	1900.8	1308.5	1056.4	984.4	968.4	884.4	792.3	760.3	748.3
60°	*8887.5*	*7394.9*	*1772.7*	*1160.5*	*968.4*	*928.4*	*920.4*	*808.3*	*732.3*	*692.3*	*676.3*
62.5°	8123.2	6854.7	1576.6	1024.4	900.4	872.3	840.3	752.3	656.3	612.2	600.2
65°	6638.6	5762.3	1340.5	932.4	832.3	800.3	792.3	672.3	608.2	584.2	580.2
67.5°	5030.0	4629.8	1180.5	864.3	760.3	748.3	720.3	680.3	652.3	624.2	616.2
70°	3557.4	3341.3	1004.4	776.3	688.3	668.3	784.3	740.3	640.3	604.2	600.2
72.5°	2156.9	2096.8	868.3	696.3	592.2	624.2	724.3	668.3	576.2	532.2	516.2
75°	1360.5	1244.5	728.3	592.2	472.2	508.2	632.3	596.2	496.2	452.2	440.2
77.5°	740.3	688.3	548.2	484.2	372.1	412.2	552.2	492.2	396.2	432.2	384.2
80°	324.1	360.1	364.1	280.1	248.1	304.1	396.2	384.2	304.1	308.1	256.1
82.5°	156.1	204.1	236.1	192.1	140.1	180.1	264.1	220.1	204.1	192.1	184.1
85°	48.0	76.0	104.0	92.0	64.0	76.0	124.0	120.0	144.1	124.0	116.0
87.5°	16.0	16.0	12.0	12.0	12.0	16.0	20.0	12.0	4.0	4.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2825.1	2825.1	2825.1	2825.1	2825.1	2825.1	2825.1	2825.1	2825.1	2825.1	2825.1
2.5°	2765.1	2769.1	2769.1	2773.1	2773.1	2785.1	2801.1	2817.1	2805.1	2821.1	2825.1
5°	2573.0	2593.0	2609.0	2669.1	2717.1	2757.1	2801.1	2841.1	2853.1	2861.1	2881.1
7.5°	2120.8	2176.9	2280.9	2417.0	2569.0	2717.1	2817.1	2921.2	2937.2	2957.2	2985.2
10°	1804.7	1828.7	1900.8	2040.8	2312.9	2605.0	2849.1	3013.2	3081.2	3121.2	3149.2
12.5°	1856.7	1840.7	1828.7	1848.7	2024.8	2401.0	2829.1	3145.2	3273.3	3317.3	3353.3
15°	1980.8	1964.8	1920.8	1864.7	1884.7	2184.9	2761.1	3269.3	3473.4	3545.4	3621.4
17.5°	2052.8	2036.8	2000.8	1940.8	1888.7	2004.8	2633.0	3381.3	3789.5	3877.5	3985.6
20°	2092.8	2076.8	2040.8	1980.8	1920.8	1936.8	2469.0	3521.4	4149.6	4289.7	4449.8
22.5°	2100.8	2080.8	2040.8	1980.8	1944.8	1932.8	2312.9	3605.4	4537.8	4753.9	4938.0
25°	2096.8	2060.8	2008.8	1964.8	1944.8	1940.8	2204.9	3653.4	4958.0	5302.1	5510.2
27.5°	2068.8	2024.8	1972.8	1940.8	1932.8	1956.8	2156.9	3709.5	5450.2	5890.3	6222.5
30°	2036.8	1972.8	1908.8	1896.8	1916.8	1992.8	2196.9	3729.5	5966.4	6530.6	6870.7
32.5°	1952.8	1904.8	1840.7	1836.7	1884.7	2020.8	2288.9	3701.5	6422.5	7170.8	7599.0
35°	1832.7	1804.7	1768.7	1780.7	1856.7	2044.8	2352.9	3613.4	6838.7	7767.1	8267.3
37.5°	1620.6	1640.6	1660.7	1688.7	1784.7	2040.8	2380.9	3473.4	7182.8	8243.3	8883.5
40°	1384.5	1452.6	1516.6	1588.6	1716.7	2008.8	2388.9	3301.3	7382.9	8603.4	9431.7
42.5°	1236.5	1300.5	1380.5	1484.6	1624.6	1936.8	2380.9	3109.2	7446.9	8851.5	9779.9
45°	1100.4	1176.5	1276.5	1384.5	1544.6	1832.7	2308.9	2901.1	7479.0	8967.6	9927.9
47.5°	1028.4	1072.4	1164.5	1272.5	1440.6	1704.7	2168.9	2749.1	7430.9	8991.6	10108.0
50°	944.4	1004.4	1064.4	1168.5	1332.5	1544.6	2000.8	2661.1	7511.0	9227.7	10392.1
52.5°	880.3	912.4	976.4	1072.4	1192.5	1396.6	1840.7	2589.0	7731.1	9467.7	10688.2
55°	832.3	868.3	908.4	988.4	1080.4	1248.5	1676.7	2481.0	7987.2	9723.8	10984.3
57.5°	756.3	780.3	836.3	920.4	980.4	1104.4	1484.6	2352.9	7967.2	9523.8	10472.1
60°	*688.3*	*712.3*	*772.3*	*856.3*	*892.4*	*976.4*	*1296.5*	*2188.9*	*7583.0*	*8871.5*	*9527.8*
62.5°	612.2	640.3	712.3	772.3	804.3	868.3	1100.4	1888.7	6782.7	7891.1	8423.3
65°	580.2	596.2	644.3	716.3	712.3	772.3	928.4	1484.6	5458.2	6030.4	6514.6
67.5°	616.2	640.3	632.3	652.3	640.3	672.3	832.3	1192.5	4289.7	4541.8	4821.9
70°	608.2	664.3	692.3	652.3	560.2	596.2	720.3	952.4	3069.2	3045.2	3033.2
72.5°	532.2	588.2	668.3	708.3	548.2	496.2	624.2	824.3	1968.8	1960.8	1772.7
75°	452.2	492.2	588.2	640.3	472.2	400.2	536.2	700.3	1176.5	1192.5	1064.4
77.5°	416.2	396.2	492.2	564.2	384.2	308.1	432.2	528.2	648.3	656.3	608.2
80°	300.1	288.1	368.1	412.2	292.1	220.1	244.1	328.1	348.1	312.1	324.1
82.5°	192.1	196.1	220.1	264.1	180.1	120.0	168.1	220.1	188.1	152.1	180.1
85°	124.0	140.1	116.0	136.1	56.0	56.0	72.0	96.0	64.0	44.0	48.0
87.5°	0.0	0.0	8.0	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Scaled Data Report

REPORT NUMBER: P1501548
CATALOG NUMBER: GSS-SB2D-835-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	2825.1	2825.1	2825.1	2825.1	2825.1	2825.1	2825.1	2825.1	2825.1	2825.1
2.5°	2837.1	2833.1	2833.1	2841.1	2861.1	2869.1	2881.1	2877.1	2889.1	2881.1
5°	2893.1	2897.1	2909.2	2913.2	2925.2	2941.2	2945.2	2941.2	2949.2	2949.2
7.5°	3005.2	3021.2	3013.2	3033.2	3017.2	2997.2	2965.2	2941.2	2921.2	2929.2
10°	3193.3	3185.3	3181.3	3145.2	3073.2	2969.2	2885.1	2793.1	2777.1	2761.1
12.5°	3401.3	3393.3	3393.3	3269.3	3065.2	2849.1	2657.1	2513.0	2465.0	2461.0
15°	3693.5	3641.4	3593.4	3333.3	2925.2	2557.0	2332.9	2220.9	2192.9	2192.9
17.5°	4057.6	3921.6	3841.5	3285.3	2697.1	2364.9	2232.9	2204.9	2196.9	2216.9
20°	4509.8	4165.6	4049.6	3177.3	2613.0	2388.9	2324.9	2328.9	2332.9	2360.9
22.5°	5006.0	4389.7	4197.7	3177.3	2697.1	2541.0	2509.0	2553.0	2565.0	2589.0
25°	5558.2	4589.8	4329.7	3345.3	2945.2	2829.1	2789.1	2833.1	2865.1	2905.2
27.5°	6178.4	4797.9	4557.8	3649.4	3265.3	3193.3	3149.2	3169.3	3213.3	3261.3
30°	6734.7	5146.0	4905.9	4113.6	3701.5	3613.4	3537.4	3569.4	3617.4	3649.4
32.5°	7226.9	5570.2	5366.1	4601.8	4201.7	4049.6	3965.6	3957.6	4053.6	4029.6
35°	7679.0	6070.4	5874.3	5158.0	4709.9	4521.8	4409.7	4553.8	4489.8	4513.8
37.5°	8035.2	6590.6	6434.5	5690.3	5238.1	4982.0	4913.9	5090.0	5190.1	5218.1
40°	8327.3	7042.8	6878.7	6218.5	5722.3	5534.2	5642.2	5934.3	5922.3	5910.3
42.5°	8551.4	7430.9	7250.9	6618.6	6186.4	6222.5	6306.5	6502.6	6550.6	6482.6
45°	8651.4	7675.0	7531.0	6934.7	6714.7	6922.7	6958.8	7042.8	7010.8	6966.8
47.5°	8767.5	7891.1	7739.1	7222.9	7286.9	7491.0	7418.9	7350.9	7234.9	7166.8
50°	8963.5	8147.2	8019.2	7643.0	7875.1	7807.1	7527.0	7374.9	7138.8	7058.8
52.5°	9335.7	8631.4	8535.4	8307.3	8151.2	7759.1	7418.9	7146.8	6882.7	6774.7
55°	9667.8	9287.7	9231.7	8927.5	8067.2	7507.0	7050.8	6630.6	6178.4	6086.4
57.5°	9859.9	10376.1	10440.1	9191.6	7683.0	6934.7	6262.5	5590.2	5162.0	5086.0
60°	9287.7	11552.6	11584.6	9139.6	6990.8	5902.3	4877.9	4401.7	3941.6	3809.5
62.5°	8499.4	11308.5	11280.5	8827.5	5566.2	4305.7	3705.5	3481.4	3125.2	3017.2
65°	7306.9	9419.7	9451.7	7627.0	3701.5	3113.2	3113.2	2829.1	2433.0	2356.9
67.5°	5954.4	7262.9	7190.8	4946.0	2272.9	2493.0	2613.0	2204.9	1648.7	1556.6
70°	3869.5	5546.2	5446.2	2853.1	1428.6	2076.8	2056.8	1656.7	1180.5	1116.4
72.5°	1664.7	3205.3	3409.3	1456.6	1076.4	1672.7	1640.6	1160.5	788.3	760.3
75°	1004.4	1612.6	1756.7	928.4	784.3	1260.5	1136.4	736.3	536.2	516.2
77.5°	636.3	884.4	876.3	696.3	588.2	852.3	764.3	508.2	364.1	348.1
80°	368.1	436.2	452.2	436.2	396.2	608.2	488.2	368.1	284.1	264.1
82.5°	236.1	272.1	276.1	212.1	220.1	392.2	264.1	216.1	164.1	148.1
85°	104.0	116.0	112.0	72.0	72.0	160.1	92.0	88.0	64.0	64.0
87.5°	4.0	8.0	4.0	4.0	4.0	16.0	8.0	12.0	12.0	12.0
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: SP1-2407-184-10

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-835-U-5WQ

Data in this report applies to families of products including GSS-SB1A-835-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

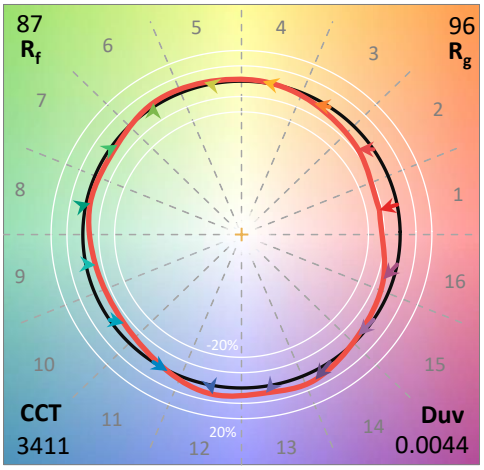
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-10
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-835-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K):	3411
CIE u':	0.2360
CIE v':	0.5189
Duv:	0.0044
CIE x:	0.4154
CIE y:	0.4059
CIE z:	0.1787
Peak Wavelength (nm):	601
Dominant Wavelength (nm):	579
Purity:	46.51914
Rf:	86.6
Rg:	95.9

CRI (Ra):	83.5
R1:	81.1
R2:	88.9
R3:	97.2
R4:	83.8
R5:	81.7
R6:	86.9
R7:	86.1
R8:	62.2
R9:	6.3
R10:	75.4
R11:	84.1
R12:	69.7
R13:	82.8
R14:	98.5
R15:	72.6



Test Conditions

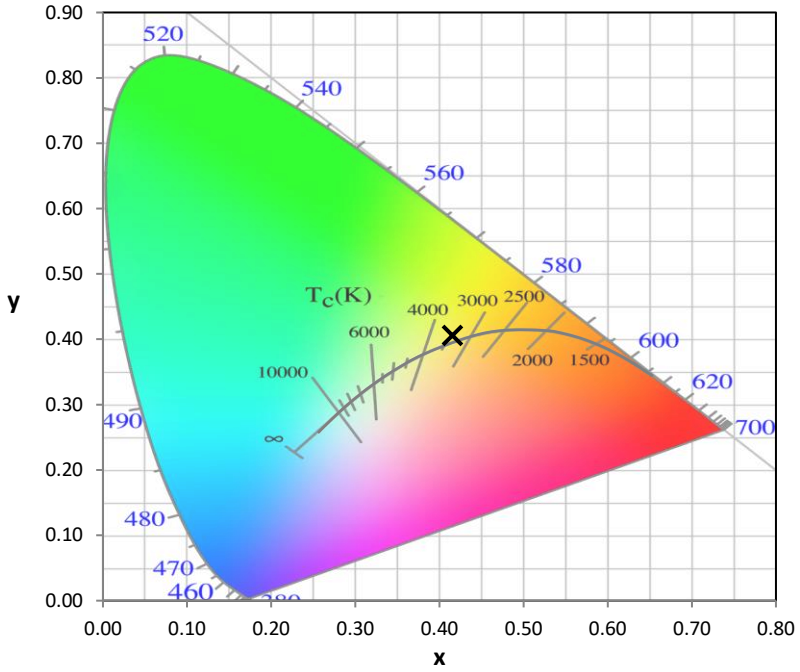
Stabilization Time:	35M
Operation Time:	1H 35M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-10

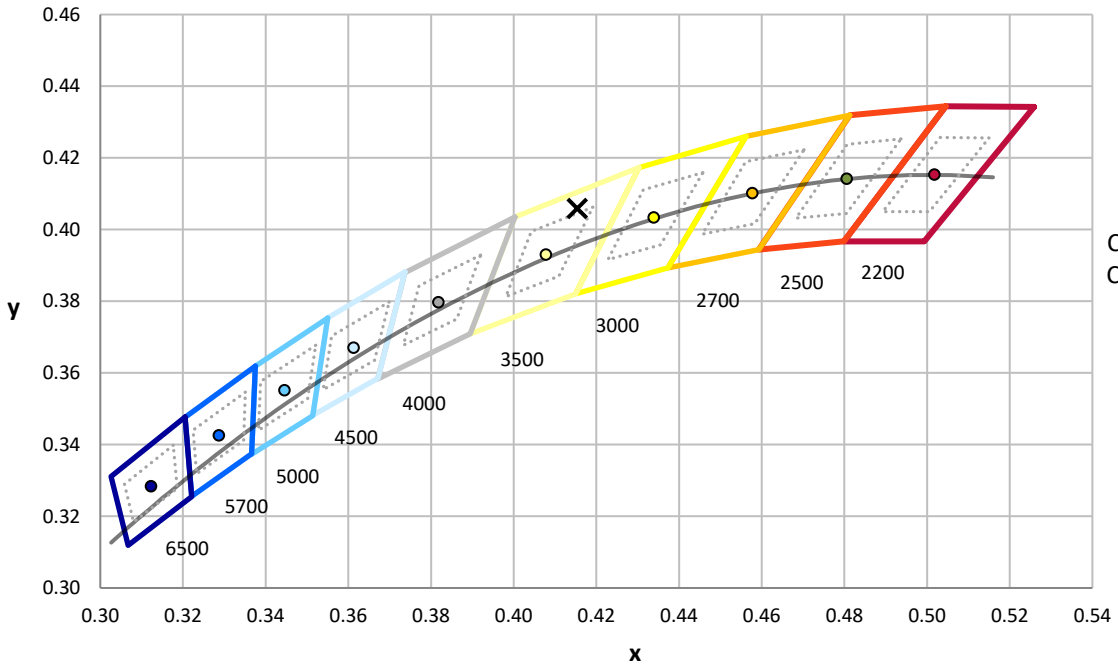
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-10

CIE 1931 Chromaticity Diagram



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

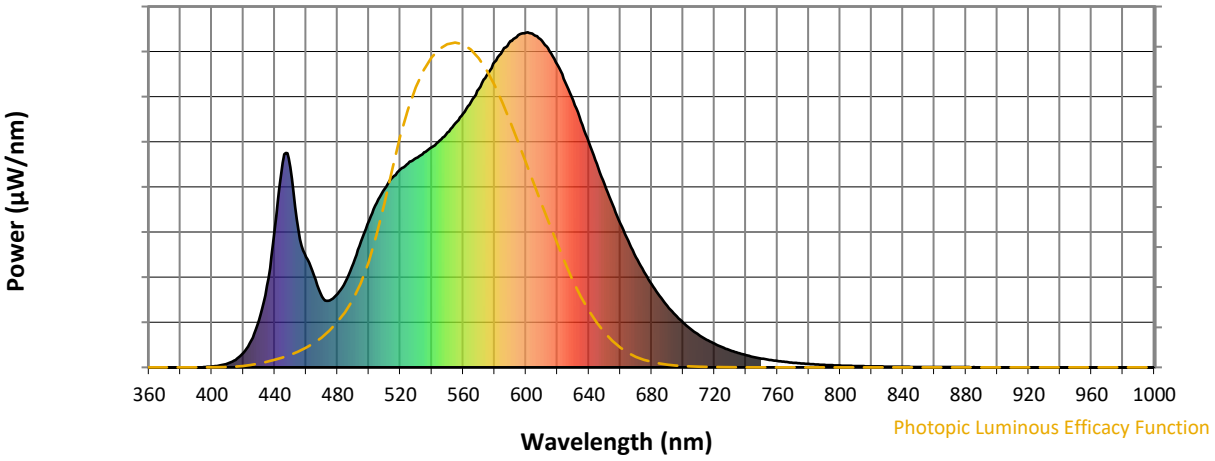


CCT = 3411K
CIE x = 0.4154
CIE y = 0.4059
Duv = 0.0044

Point lies inside the ANSI 3500K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-10

Photopic Flux vs. Wavelength

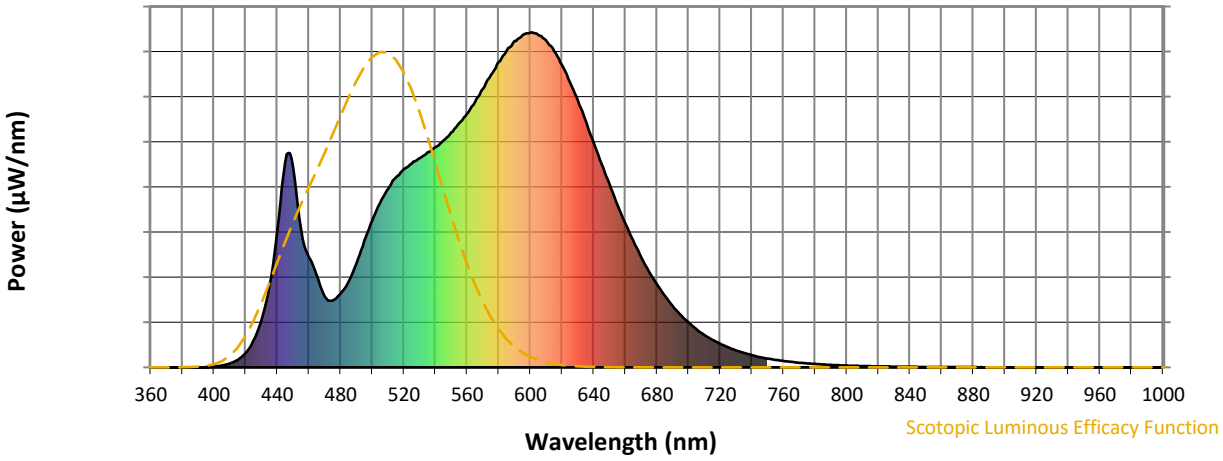


Photopic Lumens: NR

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

Scotopic Flux vs. Wavelength

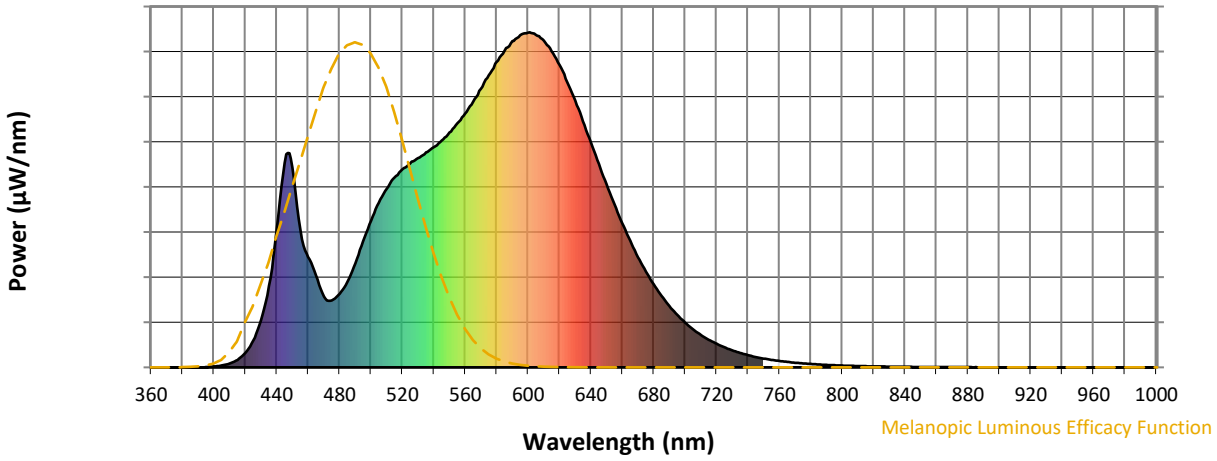


Scotopic Lumens: NR **S/P: 1.48**

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.88**

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

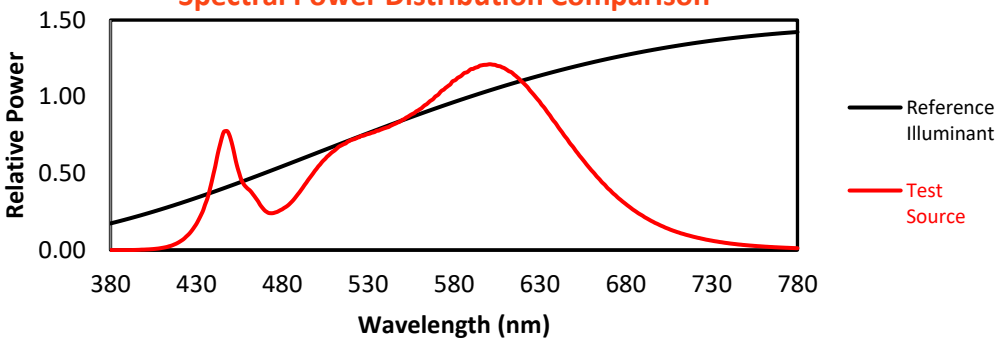
REPORT NUMBER: SP1-2407-184-10

TM-30-18

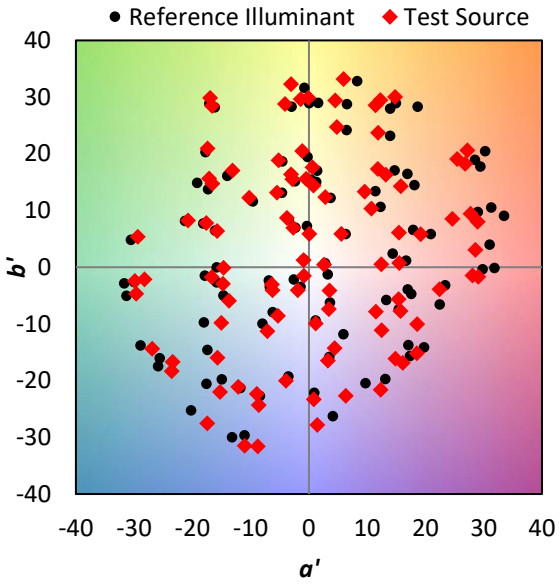
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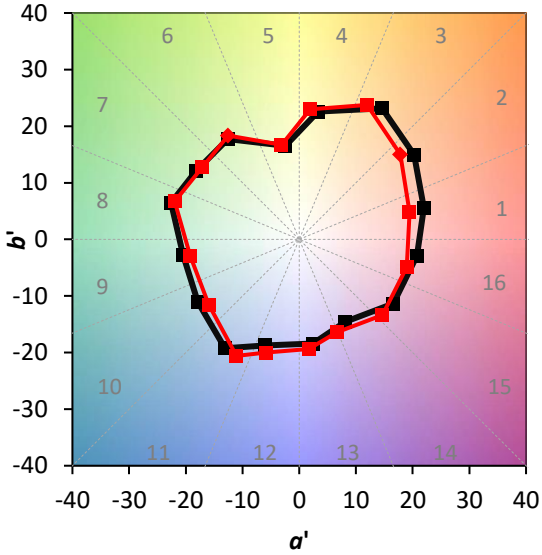
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R_g = 95.9
CIE R_a = 83.5
R_9 = 6.3

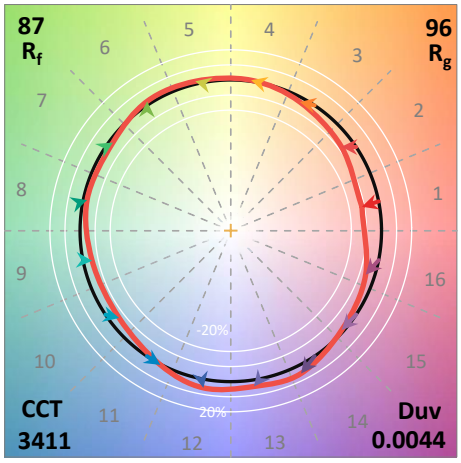
Spectral Power Distribution Comparison

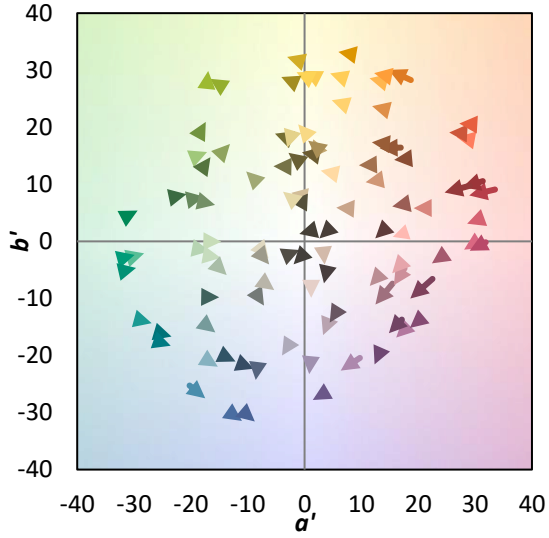


Color Vector Graphics







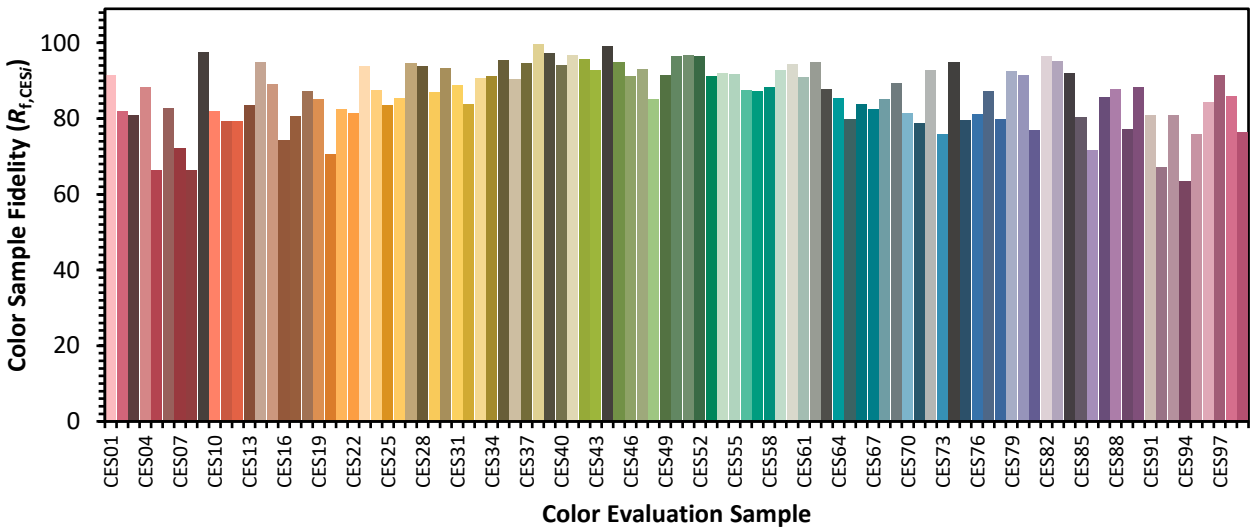


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Individual Sample Fidelity Index ($R_{f,i}$)

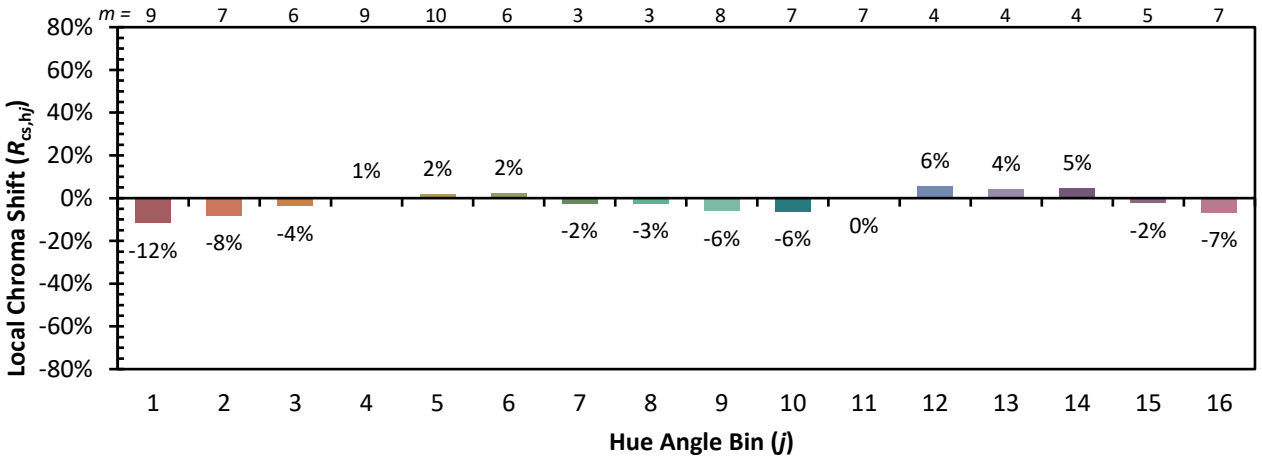
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CES02 = 62	CES27 = 95	CES52 = 96	CES77 = 87
CES03 = 31	CES28 = 94	CES53 = 91	CES78 = 80
CES04 = 70	CES29 = 87	CES54 = 92	CES79 = 93
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 91
CES06 = 51	CES31 = 89	CES56 = 88	CES81 = 77
CES07 = 41	CES32 = 84	CES57 = 87	CES82 = 96
CES08 = 40	CES33 = 91	CES58 = 88	CES83 = 95
CES09 = 29	CES34 = 91	CES59 = 93	CES84 = 92
CES10 = 75	CES35 = 95	CES60 = 94	CES85 = 80
CES11 = 58	CES36 = 90	CES61 = 91	CES86 = 72
CES12 = 64	CES37 = 95	CES62 = 95	CES87 = 86
CES13 = 43	CES38 = 100	CES63 = 88	CES88 = 88
CES14 = 74	CES39 = 97	CES64 = 85	CES89 = 77
CES15 = 71	CES40 = 94	CES65 = 80	CES90 = 88
CES16 = 47	CES41 = 97	CES66 = 84	CES91 = 81
CES17 = 49	CES42 = 96	CES67 = 82	CES92 = 67
CES18 = 56	CES43 = 93	CES68 = 85	CES93 = 81
CES19 = 72	CES44 = 99	CES69 = 89	CES94 = 63
CES20 = 66	CES45 = 95	CES70 = 81	CES95 = 76
CES21 = 86	CES46 = 91	CES71 = 79	CES96 = 84
CES22 = 78	CES47 = 93	CES72 = 93	CES97 = 92
CES23 = 91	CES48 = 85	CES73 = 76	CES98 = 86
CES24 = 90	CES49 = 92	CES74 = 95	CES99 = 77
CES25 = 72	CES50 = 96	CES75 = 80	

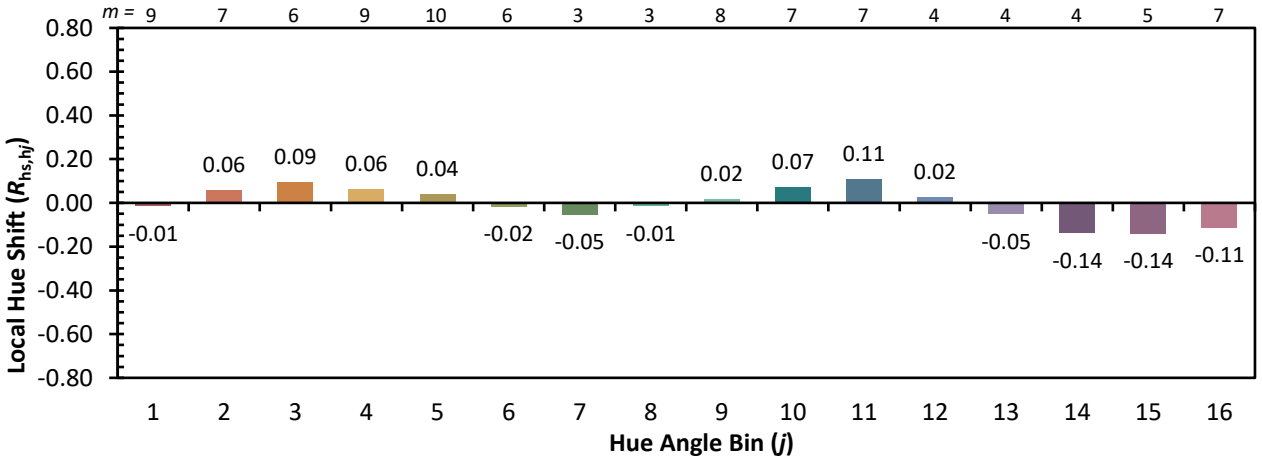


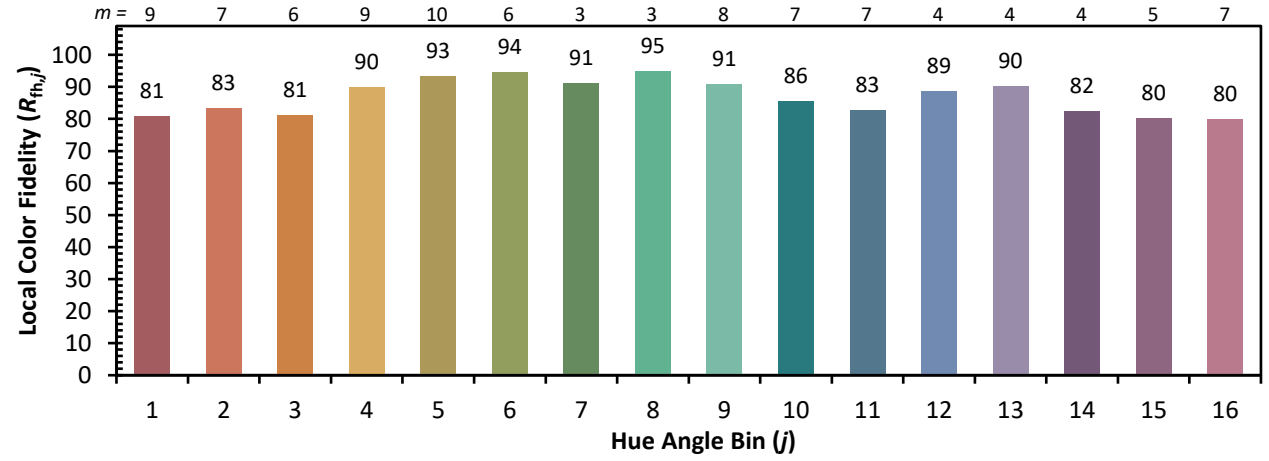
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Color Rendition by Hue-Angle Bin



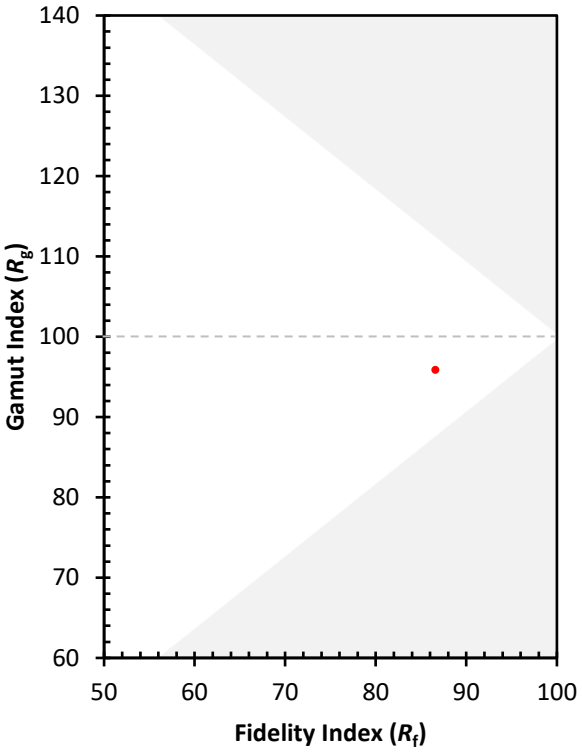


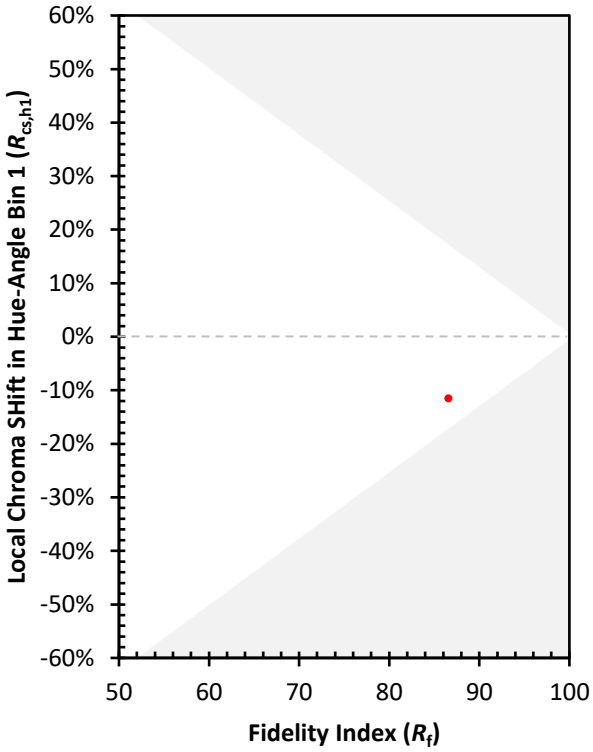


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Measure Comparisons





(END OF REPORT)