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: P1501578

Luminaire Tested: GSS-SB4B-840-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:	P1501578
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB4B-840-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 148W 80CRI 4000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(104) 4000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	20912.1 lumens
Efficiency:	N/A
Efficacy:	141.3 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G3

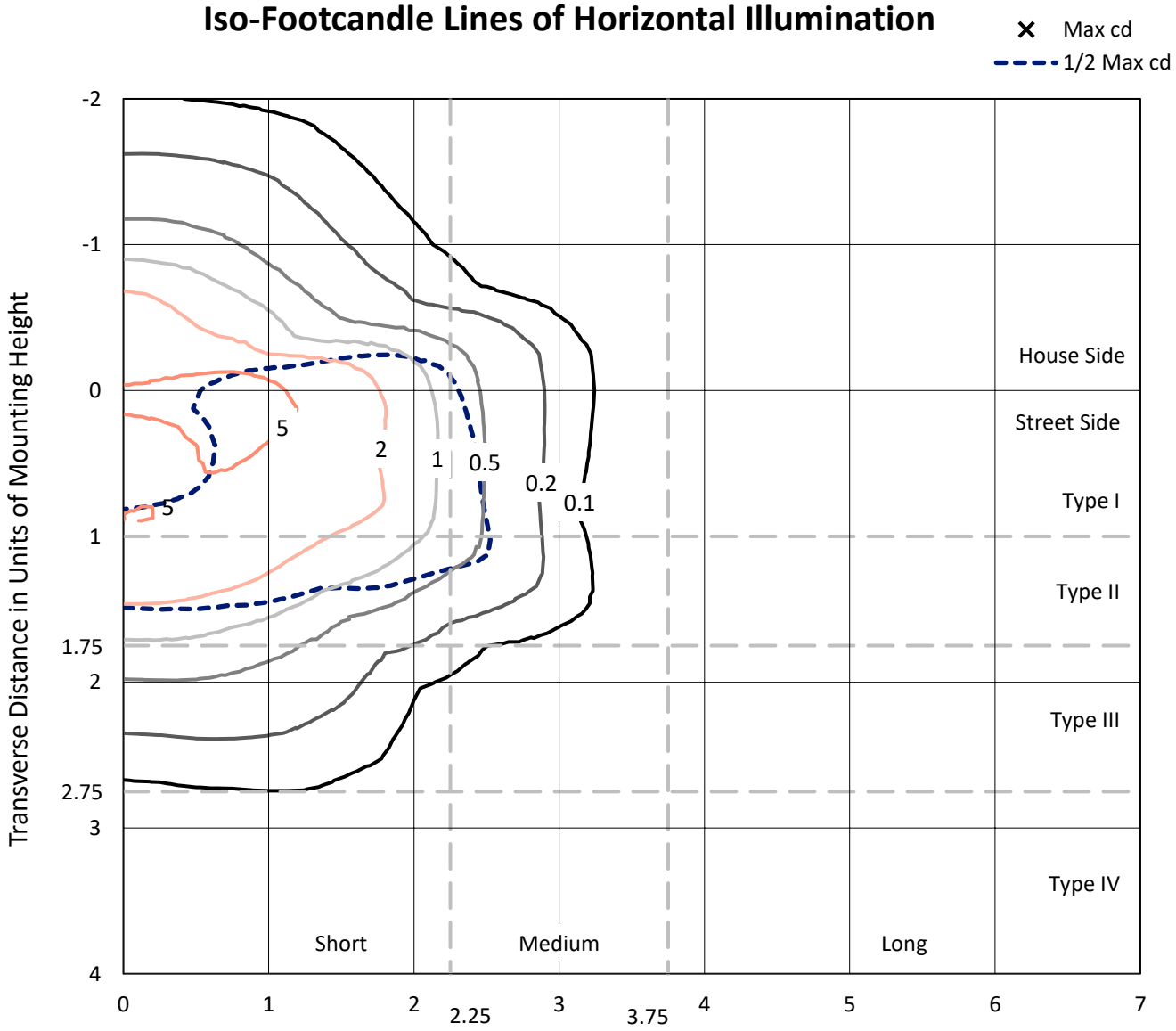
Input Watts (W):	148
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	13.6%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



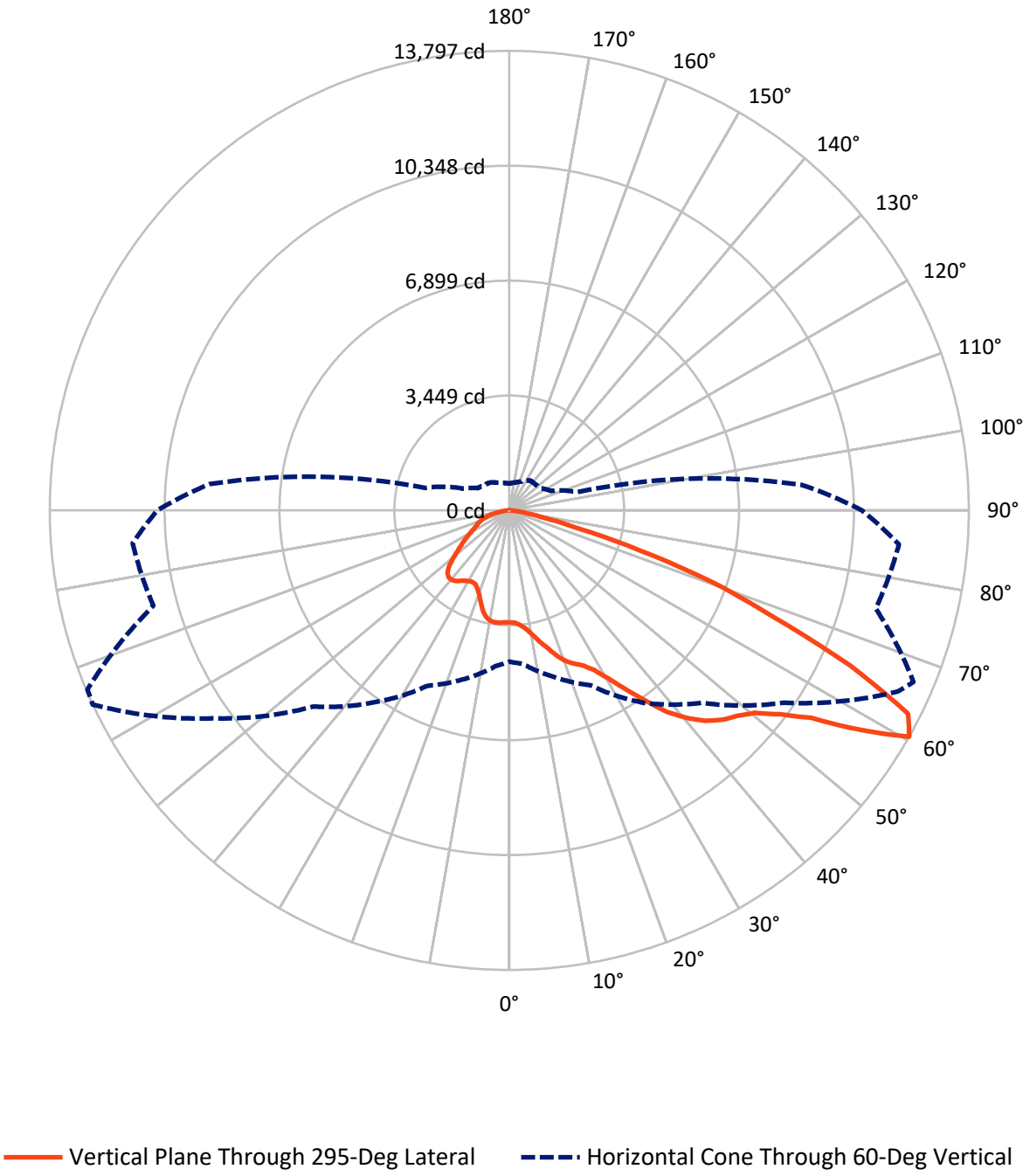
Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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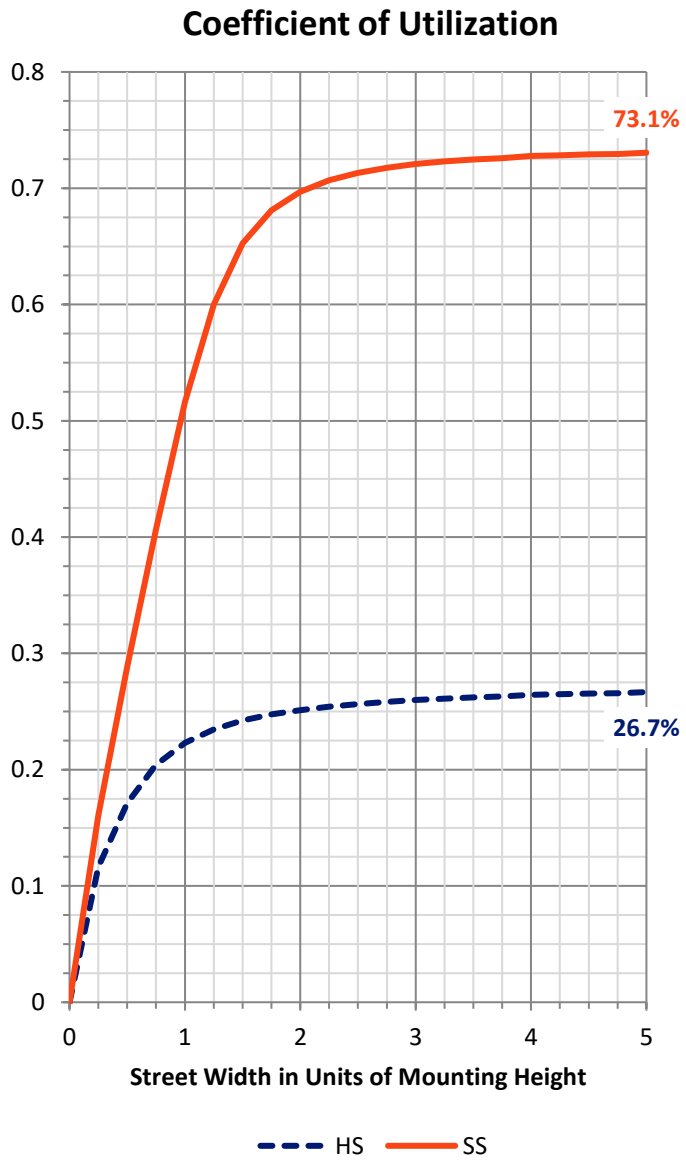
REPORT NUMBER: P1501578
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5623.5	0.0	5623.5
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	15288.6	0.0	15288.6
	% Fixture	73.1	0.0	73.1
Total	Lumens	20912.1	0.0	20912.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.4	1.5
10°-20°	909.4	4.3
20°-30°	1722.6	8.2
30°-40°	3036.9	14.5
40°-50°	4491.2	21.5
50°-60°	5273.9	25.2
60°-70°	3821.1	18.3
70°-80°	1178.4	5.6
80°-90°	162.2	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°	20912.1	100.0
0°-180°	20912.1	100.0



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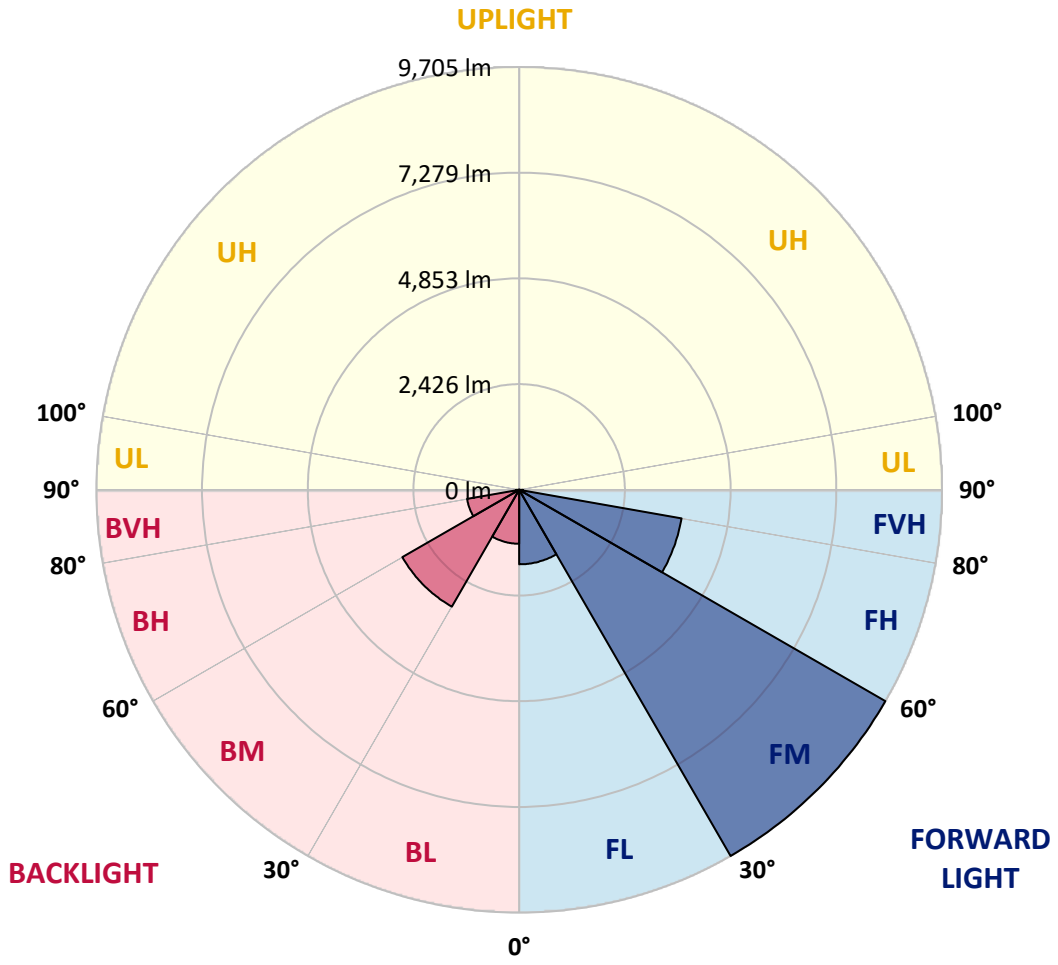
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1709.9	8.2			
FM	(30°-60°)	9705.4	46.4			
FH	(60°-80°)	3785.7	18.1			G2/5000
FVH	(80°-90°)	87.5	0.4			G1/100
BL	(0°-30°)	1238.5	5.9	B3/2500		
BM	(30°-60°)	3096.5	14.8	B3/5000		
BH	(60°-80°)	1213.8	5.8	B3/2500		G3/2500
BVH	(80°-90°)	74.7	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°	3364.7	3364.7	3364.7	3364.7	3364.7	3364.7	3364.7	3364.7	3364.7	3364.7	3364.7
2.5°	3431.4	3440.9	3426.6	3436.1	3436.1	3421.8	3417.1	3398.0	3407.5	3402.8	3398.0
5°	3512.4	3517.2	3507.6	3521.9	3521.9	3526.7	3521.9	3498.1	3498.1	3498.1	3488.6
7.5°	3488.6	3488.6	3493.3	3541.0	3588.6	3650.6	3650.6	3641.1	3650.6	3645.8	3602.9
10°	3288.4	3307.5	3350.4	3469.5	3583.9	3717.3	3807.9	3836.5	3836.5	3841.2	3769.7
12.5°	2931.0	2945.3	3045.3	3226.4	3464.7	3707.8	3927.0	4070.0	4084.3	4108.1	4012.8
15°	2611.7	2621.2	2692.7	2878.5	3150.2	3579.1	3993.7	4289.2	4336.9	4437.0	4294.0
17.5°	2640.3	2635.5	2654.5	2726.0	2921.4	3369.4	3979.4	4546.6	4632.4	4808.7	4684.8
20°	2811.8	2811.8	2826.1	2840.4	2911.9	3216.9	3874.6	4756.3	4923.1	5266.2	5123.2
22.5°	3083.5	3083.5	3078.7	3102.5	3102.5	3283.6	3879.4	4913.5	5161.4	5776.1	5637.9
25°	3460.0	3440.9	3440.9	3450.4	3407.5	3536.2	3998.5	5075.6	5399.6	6381.4	6262.3
27.5°	3884.1	3898.4	3888.9	3855.5	3798.3	3898.4	4284.5	5328.2	5666.5	7020.0	6972.4
30°	4346.4	4351.2	4360.7	4341.6	4294.0	4365.5	4732.4	5709.4	6019.2	7687.2	7792.1
32.5°	4799.2	4865.9	4842.0	4794.4	4813.5	4942.1	5285.3	6224.1	6543.4	8306.8	8678.5
35°	5375.8	5399.6	5495.0	5318.6	5323.4	5542.6	5990.6	6900.9	7210.6	8950.2	9565.0
37.5°	6214.6	6257.5	6214.6	5938.2	5895.3	6200.3	6676.9	7568.1	7792.1	9436.3	10389.4
40°	7039.1	7091.5	7163.0	6838.9	6567.3	6819.9	7325.0	8078.0	8311.5	9703.2	10937.5
42.5°	7720.6	7806.4	7730.1	7634.8	7387.0	7434.6	7777.8	8473.6	8707.1	10041.5	11490.3
45°	8297.3	8311.5	8344.9	8278.2	8154.3	8111.4	8163.8	8821.5	9078.8	10194.0	11762.0
47.5°	8535.5	8597.5	8626.1	8740.5	8869.1	8783.4	8492.6	8983.5	9217.0	10184.5	11847.8
50°	8406.9	8468.8	8621.3	8893.0	9202.8	9355.3	8878.7	9207.5	9469.6	10356.1	12024.1
52.5°	8068.5	8135.2	8383.0	8692.8	9212.3	9560.2	9422.0	9674.6	9927.2	10661.1	12319.6
55°	7248.8	7348.9	7696.8	8211.5	8926.3	9450.6	9993.9	10360.8	10637.3	11028.1	12624.6
57.5°	6057.3	6162.2	6553.0	7325.0	8397.3	8997.8	10160.7	11647.6	11771.5	11466.5	12653.2
60°	*4537.0*	*4622.8*	*5175.7*	*5795.2*	*7053.4*	*8168.6*	*10065.4*	*12867.6*	*13182.2*	*11390.3*	*11742.9*
62.5°	3593.4	3698.3	4189.1	4475.1	5375.8	6748.4	9731.8	13206.0	13477.7	10761.2	10475.2
65°	2807.1	2878.5	3336.1	3745.9	3965.1	4608.5	8340.1	11552.3	11795.3	9736.5	8645.2
67.5°	1853.9	1963.5	2506.8	3069.2	3183.6	2931.0	5738.0	8888.2	9002.6	7739.7	6500.5
70°	1329.7	1382.1	1787.2	2387.7	2559.2	1963.5	3126.4	6729.3	6762.7	5194.7	4379.8
72.5°	905.5	915.0	1215.3	1830.1	2039.8	1425.0	1720.5	4432.2	4317.8	2564.0	2506.8
75°	614.8	624.3	776.8	1220.0	1444.0	991.3	1120.0	2416.3	2320.9	1415.4	1520.3
77.5°	414.6	424.2	533.8	819.7	962.7	686.3	819.7	1277.2	1253.4	938.9	815.0
80°	314.5	328.8	395.6	524.2	672.0	400.3	467.0	605.3	614.8	500.4	414.6
82.5°	176.3	195.4	238.3	266.9	433.7	224.0	224.0	362.2	347.9	309.8	224.0
85°	76.3	81.0	95.3	100.1	176.3	95.3	81.0	157.3	162.0	152.5	71.5
87.5°	14.3	14.3	14.3	14.3	14.3	14.3	14.3	19.1	19.1	19.1	19.1
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°	3364.7	3364.7	3364.7	3364.7	3364.7	3364.7	3364.7	3364.7	3364.7	3364.7	3364.7
2.5°	3374.2	3402.8	3374.2	3359.9	3359.9	3336.1	3326.5	3326.5	3293.2	3307.5	3297.9
5°	3450.4	3460.0	3426.6	3383.7	3326.5	3278.9	3212.1	3126.4	3073.9	3069.2	3073.9
7.5°	3569.6	3574.3	3483.8	3388.5	3245.5	3073.9	2869.0	2702.2	2554.5	2530.6	2559.2
10°	3736.4	3726.9	3593.4	3369.4	3069.2	2707.0	2392.4	2239.9	2154.1	2149.4	2144.6
12.5°	3960.4	3898.4	3693.5	3288.4	2764.2	2344.8	2182.7	2173.2	2197.0	2216.1	2220.9
15°	4217.7	4136.7	3774.5	3131.1	2454.4	2211.3	2220.9	2301.9	2330.5	2349.5	2349.5
17.5°	4537.0	4432.2	3865.1	2907.1	2297.1	2239.9	2306.6	2382.9	2430.6	2449.6	2444.9
20°	4961.2	4742.0	3936.5	2692.7	2254.2	2287.6	2344.8	2421.0	2468.7	2492.5	2492.5
22.5°	5385.3	5113.7	3950.8	2544.9	2254.2	2292.3	2344.8	2421.0	2473.4	2497.3	2492.5
25°	5962.0	5590.3	3955.6	2440.1	2259.0	2268.5	2316.2	2382.9	2459.2	2483.0	2492.5
27.5°	6576.8	6114.5	3979.4	2416.3	2239.9	2235.2	2268.5	2330.5	2406.7	2468.7	2473.4
30°	7339.3	6705.5	3989.0	2440.1	2244.7	2182.7	2206.6	2268.5	2349.5	2411.5	2430.6
32.5°	8087.6	7253.5	3969.9	2492.5	2254.2	2149.4	2154.1	2192.3	2278.1	2320.9	2354.3
35°	8878.7	7835.0	3936.5	2564.0	2259.0	2135.1	2092.2	2111.2	2168.4	2173.2	2187.5
37.5°	9498.2	8268.7	3836.5	2659.3	2268.5	2082.7	1996.9	1982.6	1958.7	1911.1	1920.6
40°	10008.2	8559.4	3669.7	2707.0	2244.7	2020.7	1877.7	1811.0	1720.5	1649.0	1663.3
42.5°	10375.1	8754.8	3469.5	2716.5	2206.6	1915.9	1739.5	1625.1	1525.1	1448.8	1453.6
45°	10537.2	8735.7	3255.0	2645.0	2116.0	1787.2	1610.8	1501.2	1391.6	1310.6	1301.1
47.5°	10541.9	8549.8	2959.6	2473.4	1963.5	1639.4	1491.7	1372.5	1282.0	1224.8	1220.0
50°	10580.1	8445.0	2683.1	2225.6	1763.3	1482.2	1386.8	1267.7	1215.3	1134.3	1110.4
52.5°	10818.4	8616.6	2492.5	1954.0	1577.5	1367.8	1296.3	1191.4	1105.7	1053.2	1048.5
55°	11204.4	8912.0	2387.7	1749.0	1401.1	1258.2	1210.5	1120.0	1043.7	991.3	977.0
57.5°	11252.0	9064.5	2263.8	1558.4	1258.2	1172.4	1153.3	1053.2	943.6	905.5	891.2
60°	*10584.8*	*8807.2*	*2111.2*	*1382.1*	*1153.3*	*1105.7*	*1096.1*	*962.7*	*872.1*	*824.5*	*805.4*
62.5°	9674.6	8163.8	1877.7	1220.0	1072.3	1038.9	1000.8	896.0	781.6	729.2	714.9
65°	7906.5	6862.7	1596.5	1110.4	991.3	953.2	943.6	800.7	724.4	695.8	691.0
67.5°	5990.6	5514.0	1405.9	1029.4	905.5	891.2	857.8	810.2	776.8	743.5	733.9
70°	4236.8	3979.4	1196.2	924.6	819.7	795.9	934.1	881.7	762.5	719.6	714.9
72.5°	2568.8	2497.3	1034.2	829.2	705.3	743.5	862.6	795.9	686.3	633.9	614.8
75°	1620.4	1482.2	867.4	705.3	562.4	605.3	753.0	710.1	591.0	538.5	524.2
77.5°	881.7	819.7	652.9	576.7	443.2	490.9	657.7	586.2	471.8	514.7	457.5
80°	386.0	428.9	433.7	333.6	295.5	362.2	471.8	457.5	362.2	367.0	305.0
82.5°	185.9	243.1	281.2	228.8	166.8	214.5	314.5	262.1	243.1	228.8	219.2
85°	57.2	90.6	123.9	109.6	76.3	90.6	147.7	143.0	171.6	147.7	138.2
87.5°	19.1	19.1	14.3	14.3	14.3	19.1	23.8	14.3	4.8	4.8	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°	3364.7	3364.7	3364.7	3364.7	3364.7	3364.7	3364.7	3364.7	3364.7	3364.7	3364.7
2.5°	3293.2	3297.9	3297.9	3302.7	3302.7	3317.0	3336.1	3355.1	3340.8	3359.9	3364.7
5°	3064.4	3088.2	3107.3	3178.8	3236.0	3283.6	3336.1	3383.7	3398.0	3407.5	3431.4
7.5°	2525.9	2592.6	2716.5	2878.5	3059.6	3236.0	3355.1	3479.0	3498.1	3521.9	3555.3
10°	2149.4	2178.0	2263.8	2430.6	2754.6	3102.5	3393.2	3588.6	3669.7	3717.3	3750.7
12.5°	2211.3	2192.3	2178.0	2201.8	2411.5	2859.5	3369.4	3745.9	3898.4	3950.8	3993.7
15°	2359.1	2340.0	2287.6	2220.9	2244.7	2602.1	3288.4	3893.7	4136.7	4222.5	4313.0
17.5°	2444.9	2425.8	2382.9	2311.4	2249.5	2387.7	3135.9	4027.1	4513.2	4618.1	4746.7
20°	2492.5	2473.4	2430.6	2359.1	2287.6	2306.6	2940.5	4193.9	4942.1	5108.9	5299.6
22.5°	2502.0	2478.2	2430.6	2359.1	2316.2	2301.9	2754.6	4294.0	5404.4	5661.8	5881.0
25°	2497.3	2454.4	2392.4	2340.0	2316.2	2311.4	2626.0	4351.2	5904.8	6314.7	6562.5
27.5°	2463.9	2411.5	2349.5	2311.4	2301.9	2330.5	2568.8	4417.9	6491.0	7015.3	7410.8
30°	2425.8	2349.5	2273.3	2259.0	2282.8	2373.4	2616.4	4441.7	7105.8	7777.8	8182.9
32.5°	2325.7	2268.5	2192.3	2187.5	2244.7	2406.7	2726.0	4408.4	7649.1	8540.3	9050.2
35°	2182.7	2149.4	2106.5	2120.8	2211.3	2435.3	2802.3	4303.5	8144.7	9250.4	9846.1
37.5°	1930.1	1954.0	1977.8	2011.2	2125.5	2430.6	2835.6	4136.7	8554.6	9817.5	10580.1
40°	1649.0	1730.0	1806.2	1892.0	2044.5	2392.4	2845.2	3931.8	8792.9	10246.5	11233.0
42.5°	1472.6	1548.9	1644.2	1768.1	1934.9	2306.6	2835.6	3703.0	8869.1	10541.9	11647.6
45°	1310.6	1401.1	1520.3	1649.0	1839.6	2182.7	2749.9	3455.2	8907.3	10680.1	11823.9
47.5°	1224.8	1277.2	1386.8	1515.5	1715.7	2030.2	2583.1	3274.1	8850.1	10708.7	12038.4
50°	1124.7	1196.2	1267.7	1391.6	1587.0	1839.6	2382.9	3169.3	8945.4	10989.9	12376.8
52.5°	1048.5	1086.6	1162.9	1277.2	1420.2	1663.3	2192.3	3083.5	9207.5	11275.9	12729.4
55°	991.3	1034.2	1081.8	1177.2	1286.8	1486.9	1996.9	2954.8	9512.5	11580.9	13082.1
57.5°	900.7	929.3	996.1	1096.1	1167.6	1315.4	1768.1	2802.3	9488.7	11342.6	12472.1
60°	*819.7*	*848.3*	*919.8*	*1019.9*	*1062.8*	*1162.9*	*1544.1*	*2606.9*	*9031.2*	*10565.8*	*11347.4*
62.5°	729.2	762.5	848.3	919.8	957.9	1034.2	1310.6	2249.5	8078.0	9398.1	10032.0
65°	691.0	710.1	767.3	853.1	848.3	919.8	1105.7	1768.1	6500.5	7182.1	7758.7
67.5°	733.9	762.5	753.0	776.8	762.5	800.7	991.3	1420.2	5108.9	5409.2	5742.8
70°	724.4	791.1	824.5	776.8	667.2	710.1	857.8	1134.3	3655.4	3626.8	3612.5
72.5°	633.9	700.6	795.9	843.5	652.9	591.0	743.5	981.8	2344.8	2335.2	2111.2
75°	538.5	586.2	700.6	762.5	562.4	476.6	638.6	834.0	1401.1	1420.2	1267.7
77.5°	495.6	471.8	586.2	672.0	457.5	367.0	514.7	629.1	772.1	781.6	724.4
80°	357.4	343.1	438.5	490.9	347.9	262.1	290.7	390.8	414.6	371.7	386.0
82.5°	228.8	233.5	262.1	314.5	214.5	143.0	200.2	262.1	224.0	181.1	214.5
85°	147.7	166.8	138.2	162.0	66.7	66.7	85.8	114.4	76.3	52.4	57.2
87.5°	0.0	0.0	9.5	19.1	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: P1501578
CATALOG NUMBER: GSS-SB4B-840-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	3364.7	3364.7	*3364.7*	3364.7	3364.7	3364.7	3364.7	3364.7	3364.7	3364.7
2.5°	3378.9	3374.2	*3374.2*	3383.7	3407.5	3417.1	3431.4	3426.6	3440.9	3431.4
5°	3445.7	3450.4	*3464.7*	3469.5	3483.8	3502.9	3507.6	3502.9	3512.4	3512.4
7.5°	3579.1	3598.2	*3588.6*	3612.5	3593.4	3569.6	3531.5	3502.9	3479.0	3488.6
10°	3803.1	3793.6	*3788.8*	3745.9	3660.1	3536.2	3436.1	3326.5	3307.5	3288.4
12.5°	4050.9	4041.4	*4041.4*	3893.7	3650.6	3393.2	3164.5	2992.9	2935.7	2931.0
15°	4398.8	4336.9	*4279.7*	3969.9	3483.8	3045.3	2778.5	2645.0	2611.7	2611.7
17.5°	4832.5	4670.5	*4575.2*	3912.7	3212.1	2816.6	2659.3	2626.0	2616.4	2640.3
20°	5371.1	4961.2	*4823.0*	3784.0	3112.1	2845.2	2768.9	2773.7	2778.5	2811.8
22.5°	5962.0	5228.1	*4999.3*	3784.0	3212.1	3026.3	2988.2	3040.6	3054.9	3083.5
25°	6619.7	5466.4	*5156.6*	3984.2	3507.6	3369.4	3321.8	3374.2	3412.3	3460.0
27.5°	7358.4	5714.2	*5428.2*	4346.4	3888.9	3803.1	3750.7	3774.5	3826.9	3884.1
30°	8020.8	6128.8	*5842.9*	4899.2	4408.4	4303.5	4213.0	4251.1	4308.3	4346.4
32.5°	8607.0	6634.0	*6390.9*	5480.7	5004.1	4823.0	4722.9	4713.4	4827.8	4799.2
35°	9145.6	7229.7	*6996.2*	6143.1	5609.3	5385.3	5251.9	5423.5	5347.2	5375.8
37.5°	9569.7	7849.3	*7663.4*	6777.0	6238.4	5933.4	5852.4	6062.1	6181.2	6214.6
40°	9917.6	8387.8	*8192.4*	7406.0	6815.1	6591.1	6719.8	7067.7	7053.4	7039.1
42.5°	10184.5	8850.1	*8635.6*	7882.6	7367.9	7410.8	7510.9	7744.4	7801.6	7720.6
45°	10303.7	9140.8	*8969.2*	8259.1	7997.0	8244.8	8287.7	8387.8	8349.7	8297.3
47.5°	10441.9	9398.1	*9217.0*	8602.3	8678.5	8921.6	8835.8	8754.8	8616.6	8535.5
50°	10675.4	9703.2	*9550.7*	9102.7	9379.1	9298.1	8964.5	8783.4	8502.2	8406.9
52.5°	11118.6	10279.8	*10165.4*	9893.8	9707.9	9240.9	8835.8	8511.7	8197.2	8068.5
55°	11514.2	11061.4	*10994.7*	10632.5	9607.8	8940.6	8397.3	7896.9	7358.4	7248.8
57.5°	11742.9	12357.7	*12434.0*	10947.0	9150.3	8259.1	7458.5	6657.8	6147.9	6057.3
60°	*11061.4*	*13758.9*	*13797.0*	*10885.1*	*8325.8*	*7029.5*	*5809.5*	*5242.4*	*4694.3*	*4537.0*
62.5°	10122.6	13468.1	*13434.8*	10513.3	6629.2	5128.0	4413.1	4146.2	3722.1	3593.4
65°	8702.3	11218.7	*11256.8*	9083.6	4408.4	3707.8	3707.8	3369.4	2897.6	2807.1
67.5°	7091.5	8649.9	*8564.1*	5890.5	2707.0	2969.1	3112.1	2626.0	1963.5	1853.9
70°	4608.5	6605.4	*6486.2*	3398.0	1701.4	2473.4	2449.6	1973.0	1405.9	1329.7
72.5°	1982.6	3817.4	*4060.5*	1734.7	1282.0	1992.1	1954.0	1382.1	938.9	905.5
75°	1196.2	1920.6	*2092.2*	1105.7	934.1	1501.2	1353.5	876.9	638.6	614.8
77.5°	757.8	1053.2	*1043.7*	829.2	700.6	1015.1	910.3	605.3	433.7	414.6
80°	438.5	519.5	*538.5*	519.5	471.8	724.4	581.4	438.5	338.4	314.5
82.5°	281.2	324.1	*328.8*	252.6	262.1	467.0	314.5	257.4	195.4	176.3
85°	123.9	138.2	*133.4*	85.8	85.8	190.6	109.6	104.8	76.3	76.3
87.5°	4.8	9.5	*4.8*	4.8	4.8	19.1	9.5	14.3	14.3	14.3
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: SP1-2407-184-11

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-840-U-5WQ

Data in this report applies to families of products including GSS-SB1A-840-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

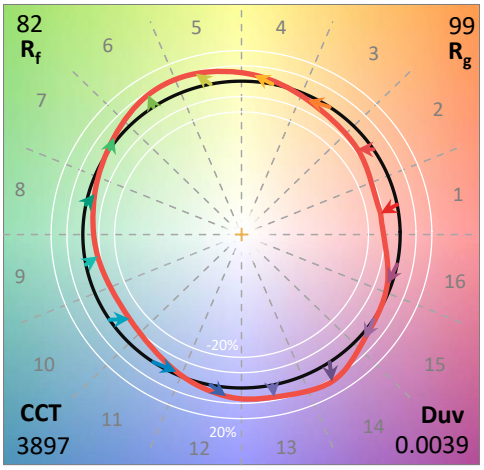
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-11
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-840-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 4000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3897
CIE u':	0.2249
CIE v':	0.5084
Duv:	0.0039
CIE x:	0.3882
CIE y:	0.3900
CIE z:	0.2218
Peak Wavelength (nm):	445
Dominant Wavelength (nm):	577
Purity:	33.54925
Rf:	81.8
Rg:	98.6

CRI (Ra):	80.2
R1:	78.9
R2:	83.5
R3:	88.3
R4:	82.1
R5:	78.8
R6:	78.4
R7:	85.8
R8:	65.8
R9:	6.7
R10:	61.9
R11:	81.9
R12:	58.9
R13:	79.2
R14:	93.2
R15:	71.9



Test Conditions

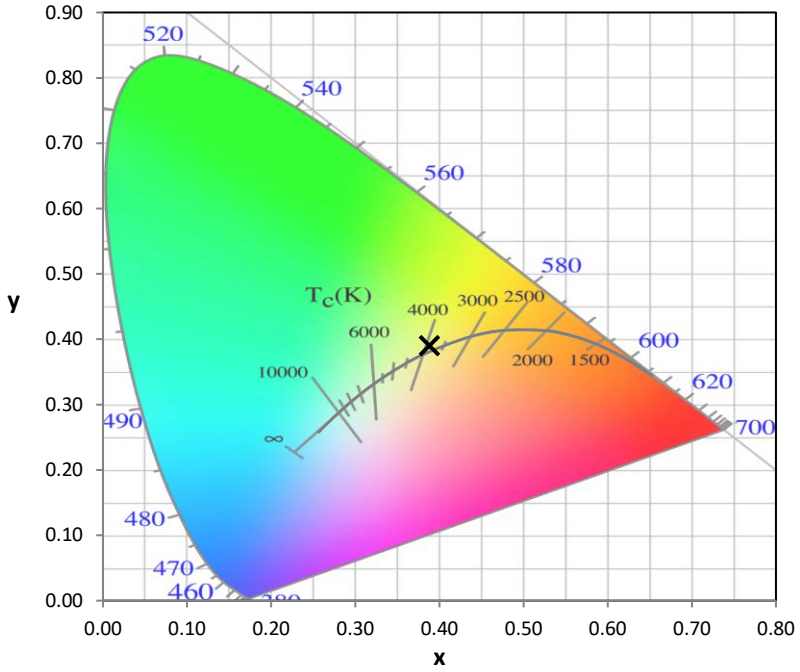
Stabilization Time:	24M
Operation Time:	1H 24M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-11

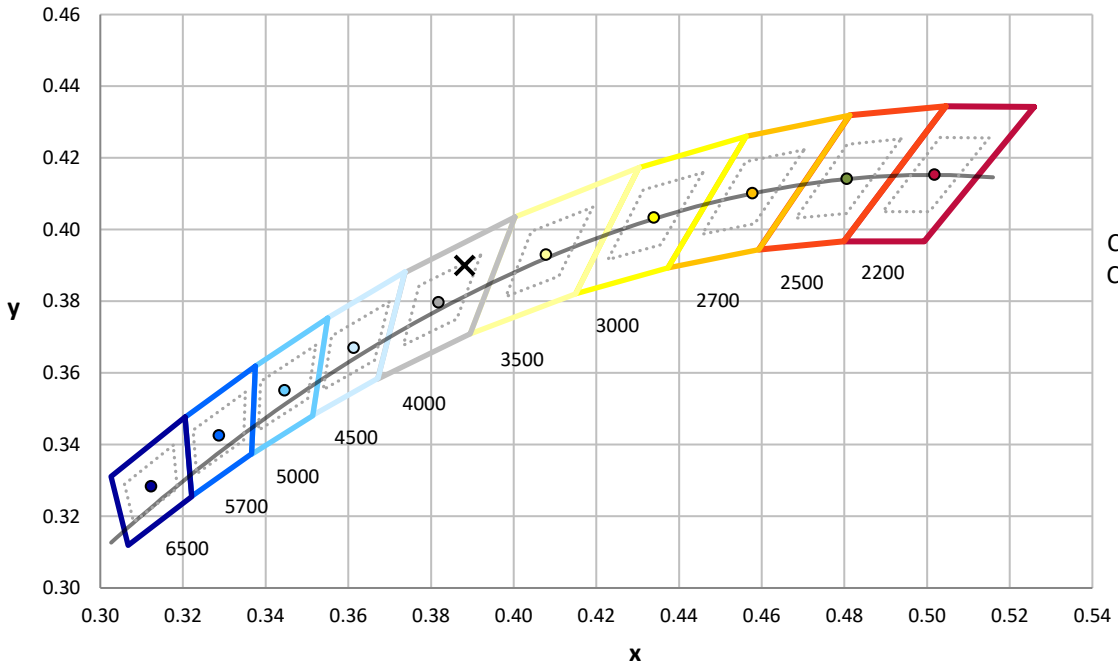
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-11

CIE 1931 Chromaticity Diagram



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

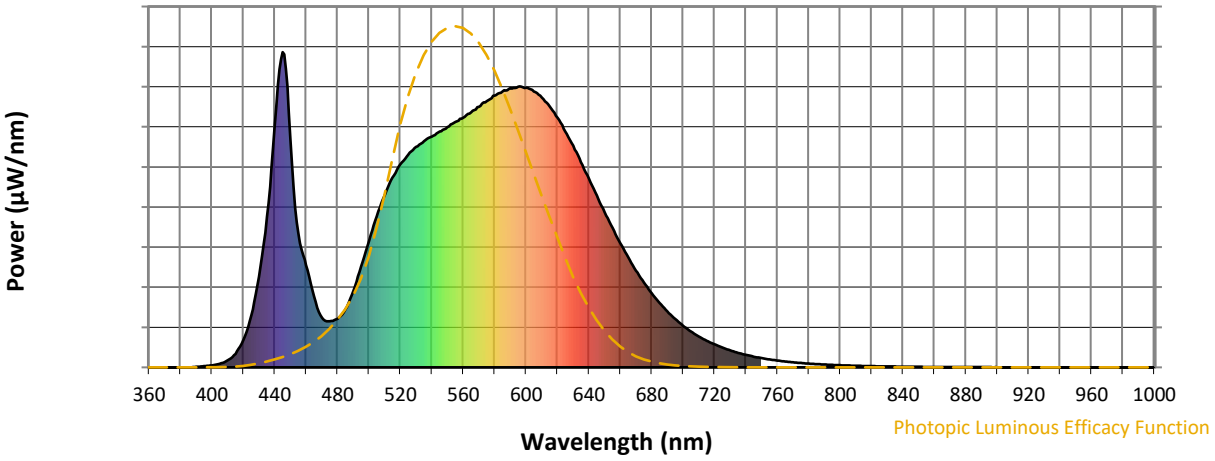


CCT = 3897K
CIE x = 0.3882
CIE y = 0.3900
Duv = 0.0039

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-11

Photopic Flux vs. Wavelength

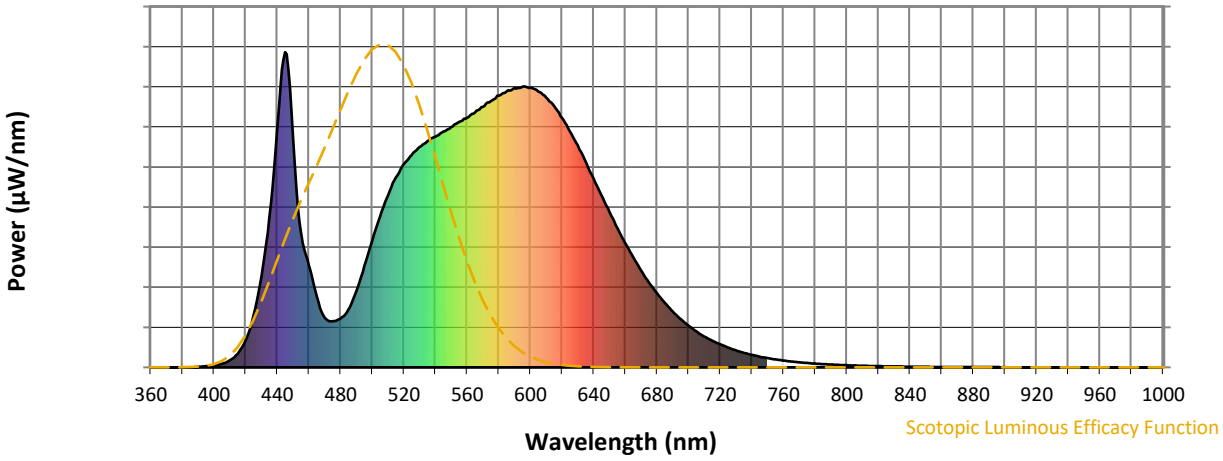


Photopic Lumens: NR

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

Scotopic Flux vs. Wavelength

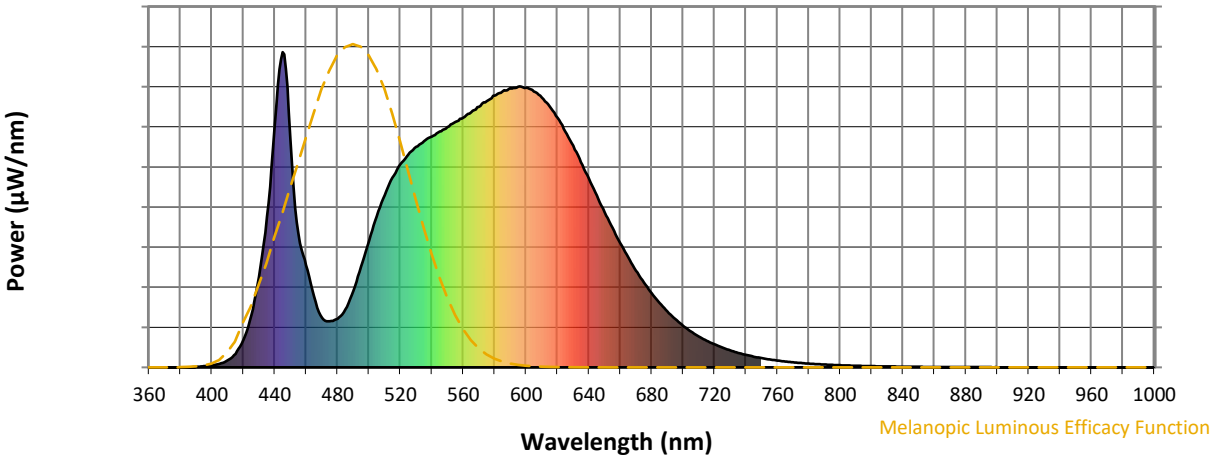


Scotopic Lumens: NR **S/P: 1.57**

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.06**

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

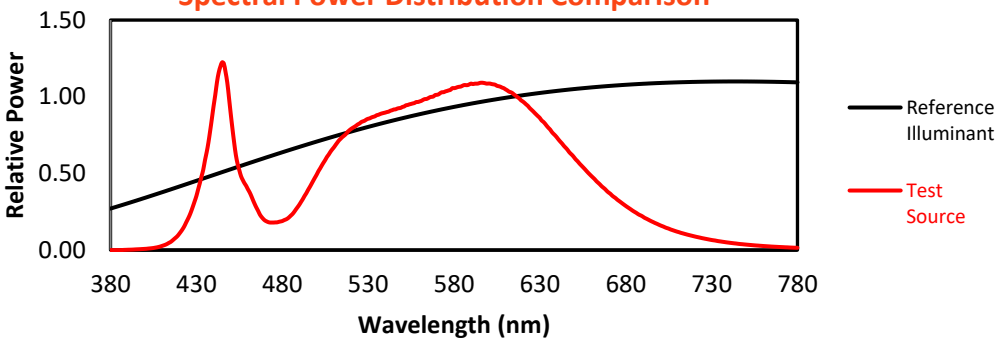
REPORT NUMBER: SP1-2407-184-11

TM-30-18

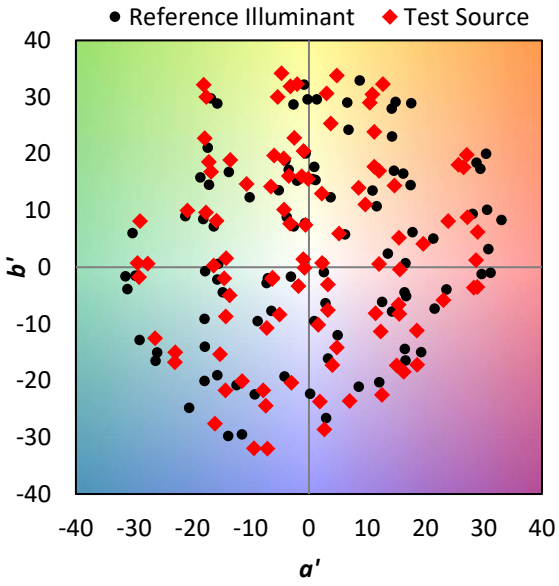
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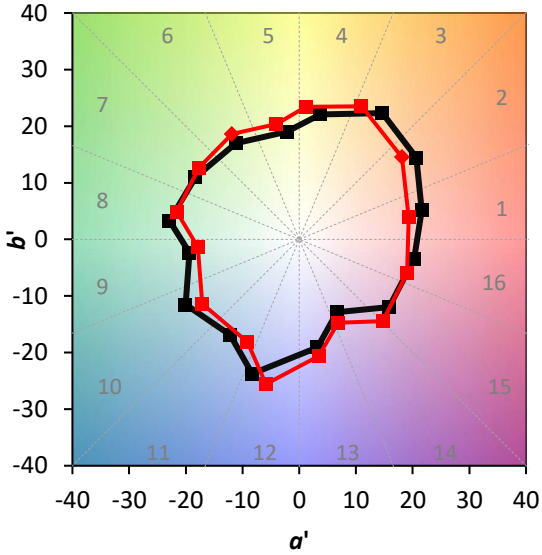
R_f = 81.8
R_g = 98.6
CIE R_a = 80.2
R_9 = 6.7

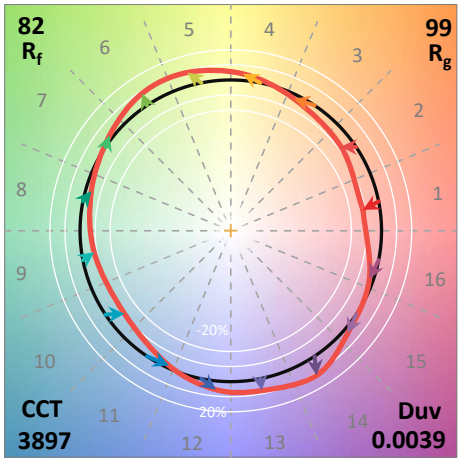
Spectral Power Distribution Comparison

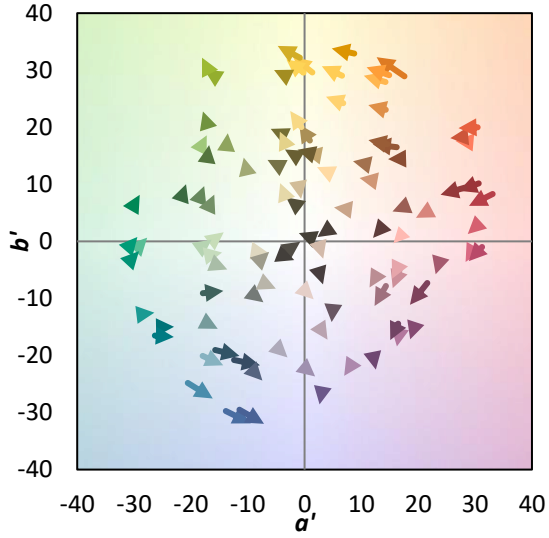


Color Vector Graphics







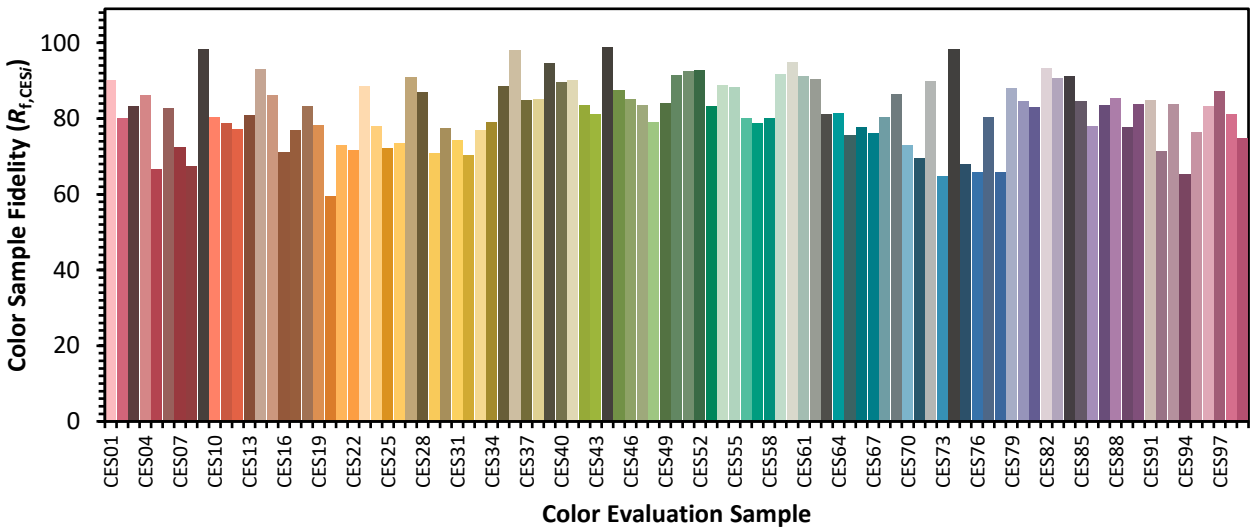


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Individual Sample Fidelity Index ($R_{f,i}$)

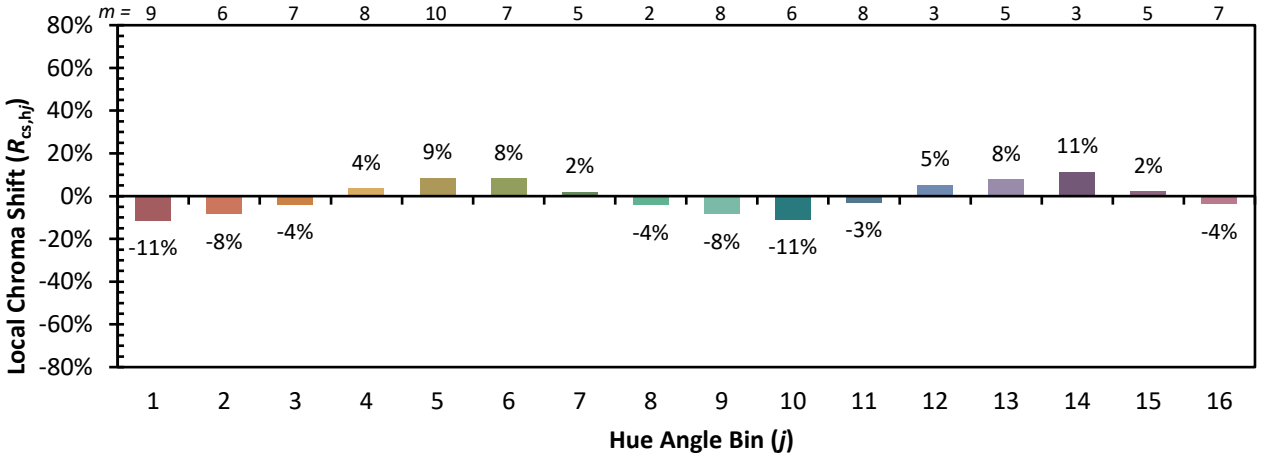
CES01 = 85	CES26 = 73	CES51 = 93	CES76 = 66
CES02 = 61	CES27 = 91	CES52 = 93	CES77 = 80
CES03 = 31	CES28 = 87	CES53 = 83	CES78 = 66
CES04 = 69	CES29 = 71	CES54 = 89	CES79 = 88
CES05 = 48	CES30 = 77	CES55 = 88	CES80 = 85
CES06 = 50	CES31 = 74	CES56 = 80	CES81 = 83
CES07 = 41	CES32 = 70	CES57 = 79	CES82 = 93
CES08 = 40	CES33 = 77	CES58 = 80	CES83 = 91
CES09 = 29	CES34 = 79	CES59 = 92	CES84 = 91
CES10 = 74	CES35 = 88	CES60 = 95	CES85 = 84
CES11 = 57	CES36 = 98	CES61 = 91	CES86 = 78
CES12 = 63	CES37 = 85	CES62 = 90	CES87 = 84
CES13 = 42	CES38 = 85	CES63 = 81	CES88 = 85
CES14 = 74	CES39 = 95	CES64 = 81	CES89 = 78
CES15 = 71	CES40 = 90	CES65 = 76	CES90 = 84
CES16 = 47	CES41 = 90	CES66 = 78	CES91 = 85
CES17 = 49	CES42 = 84	CES67 = 76	CES92 = 71
CES18 = 56	CES43 = 81	CES68 = 80	CES93 = 84
CES19 = 71	CES44 = 99	CES69 = 86	CES94 = 65
CES20 = 65	CES45 = 87	CES70 = 73	CES95 = 77
CES21 = 86	CES46 = 85	CES71 = 70	CES96 = 83
CES22 = 78	CES47 = 84	CES72 = 90	CES97 = 87
CES23 = 91	CES48 = 79	CES73 = 65	CES98 = 81
CES24 = 90	CES49 = 84	CES74 = 98	CES99 = 75
CES25 = 71	CES50 = 91	CES75 = 68	

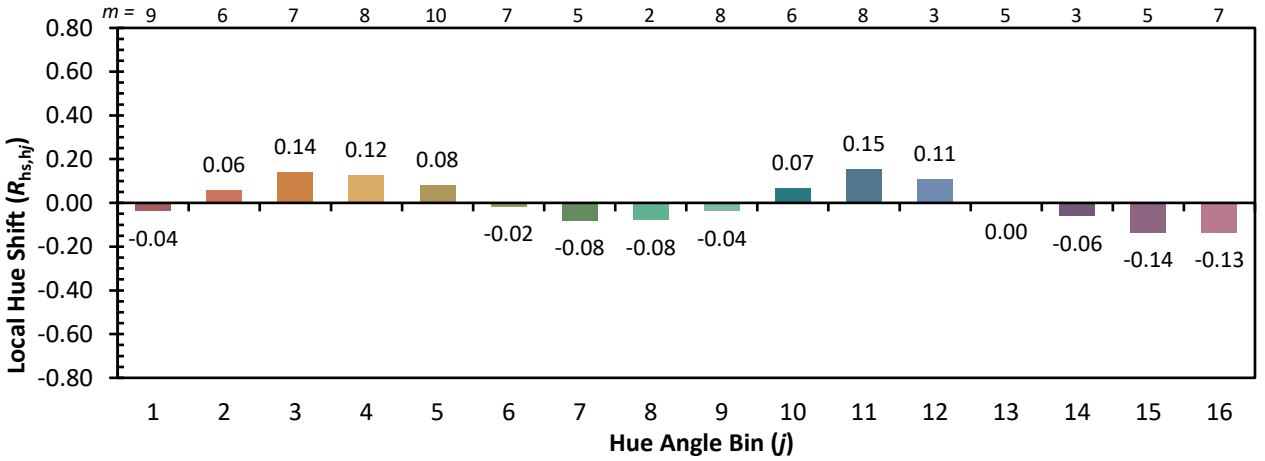


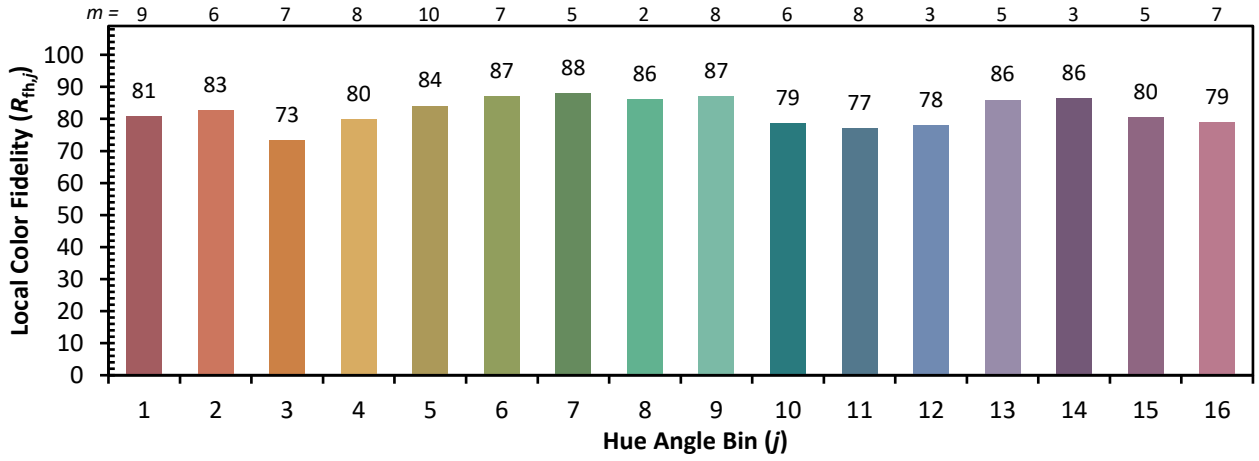
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Color Rendition by Hue-Angle Bin



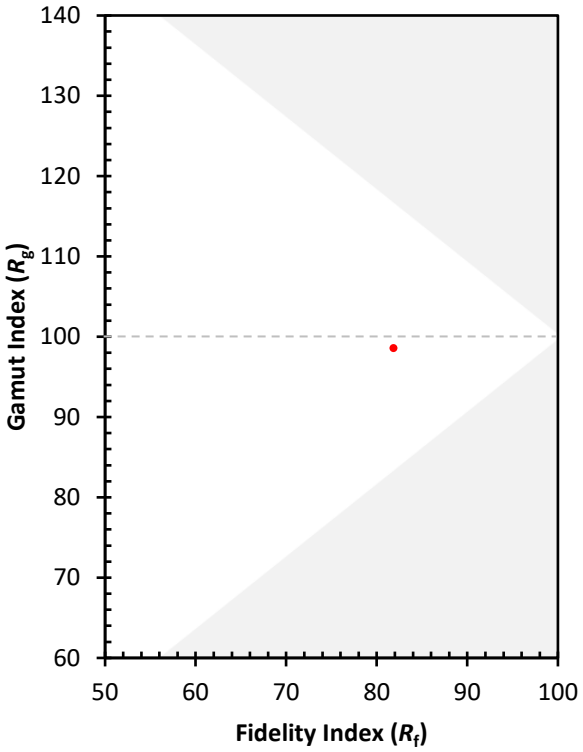


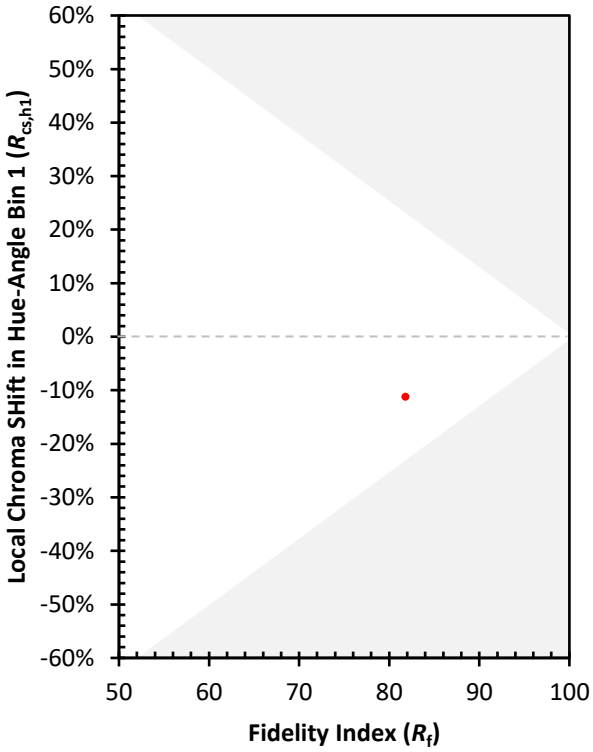


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Measure Comparisons





(END OF REPORT)