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: P1501508

Luminaire Tested: GSS-SB4D-827-U-T2LG

Issue Date: 07/20/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501508
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB4D-827-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 238W 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:	27753.6 lumens
Efficiency:	N/A
Efficacy:	116.6 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G3

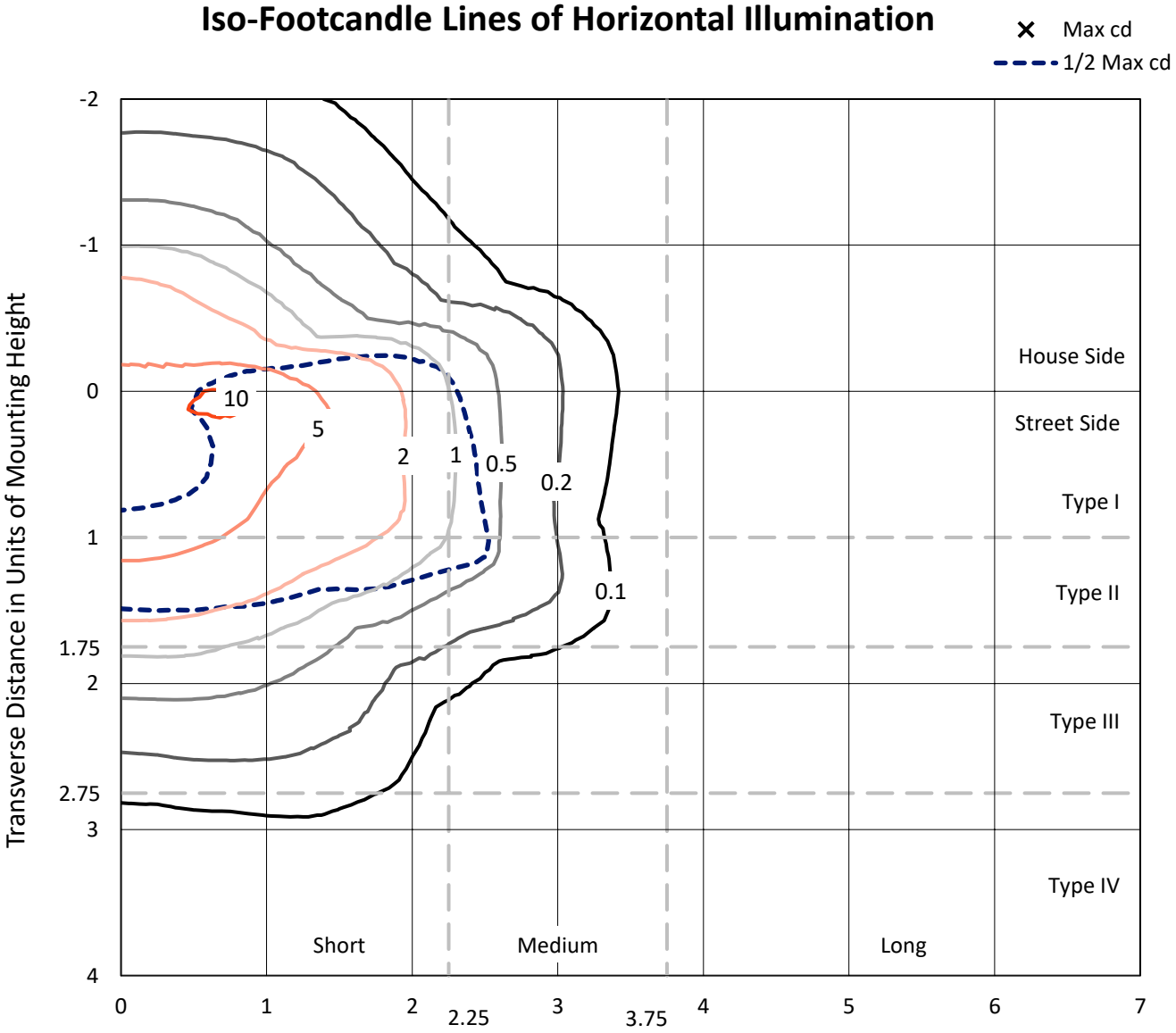
Input Watts (W):	238
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	--
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



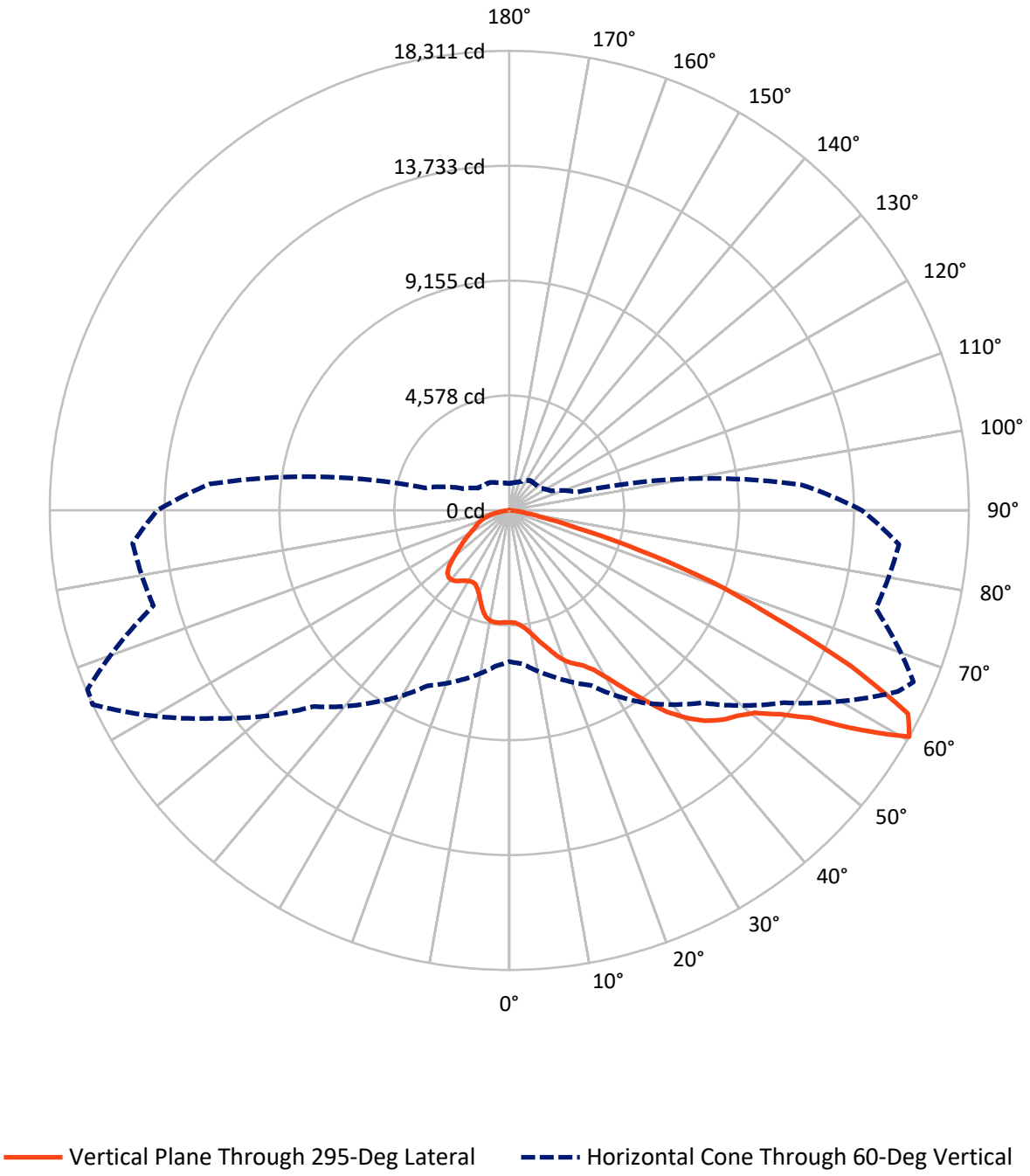
Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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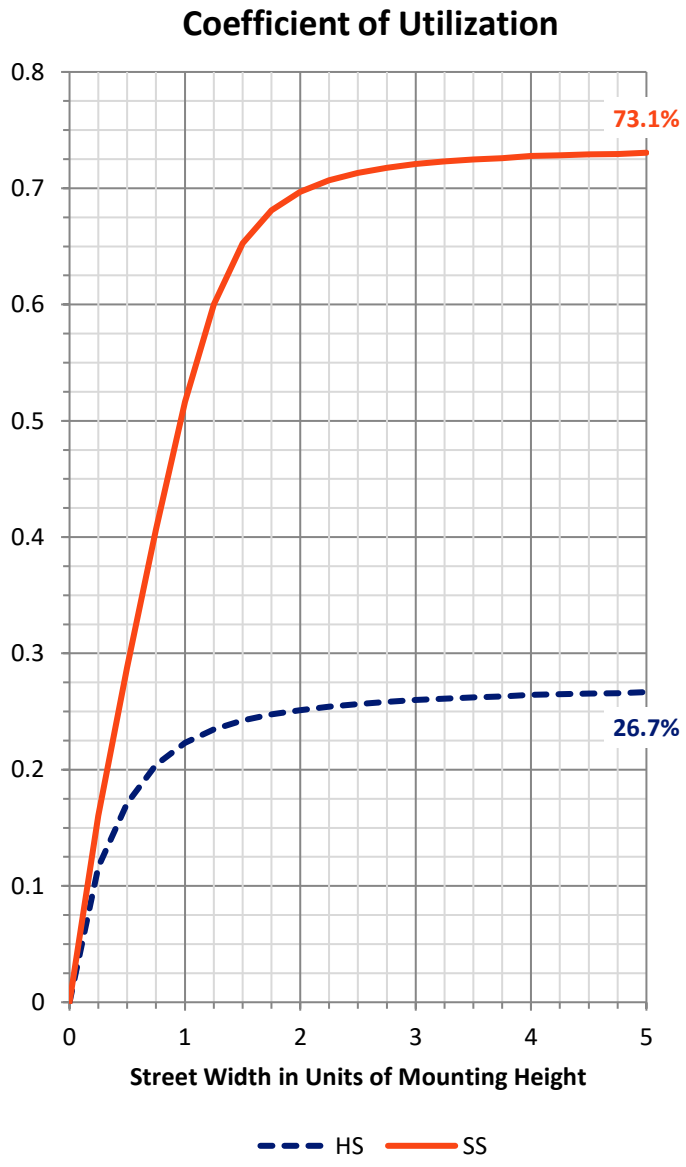
REPORT NUMBER: P1501508
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7463.3	0.0	7463.3
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	20290.4	0.0	20290.4
	% Fixture	73.1	0.0	73.1
Total	Lumens	27753.6	0.0	27753.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.9	1.5
10°-20°	1206.9	4.3
20°-30°	2286.2	8.2
30°-40°	4030.4	14.5
40°-50°	5960.5	21.5
50°-60°	6999.3	25.2
60°-70°	5071.3	18.3
70°-80°	1563.9	5.6
80°-90°	215.3	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°	27753.6	100.0
0°-180°	27753.6	100.0



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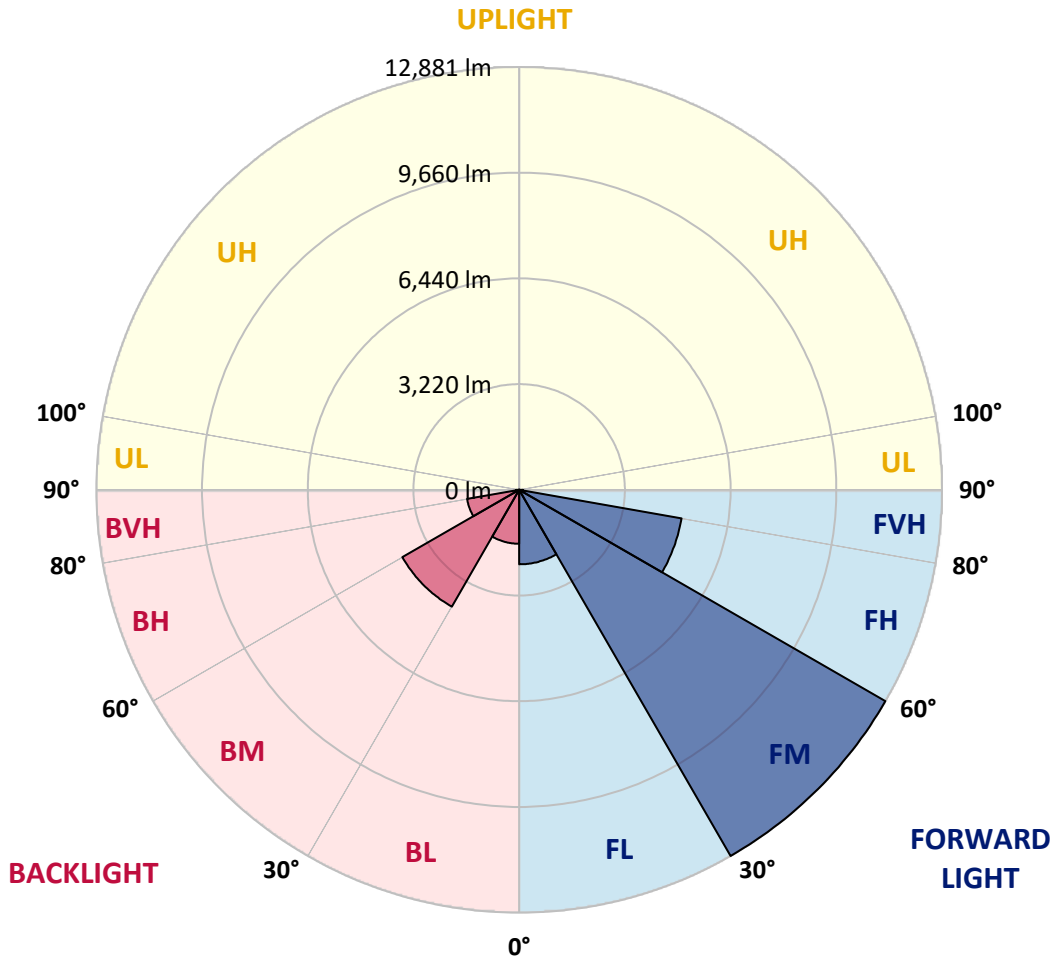
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2269.3	8.2			
FM	(30°-60°)	12880.7	46.4			
FH	(60°-80°)	5024.3	18.1			G3/7500
FVH	(80°-90°)	116.1	0.4			G2/225
BL	(0°-30°)	1643.7	5.9	B3/2500		
BM	(30°-60°)	4109.5	14.8	B3/5000		
BH	(60°-80°)	1610.9	5.8	B3/2500		G3/2500
BVH	(80°-90°)	99.2	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°	4465.4	4465.4	4465.4	4465.4	4465.4	4465.4	4465.4	4465.4	4465.4	4465.4	4465.4
2.5°	4554.0	4566.6	4547.7	4560.3	4560.3	4541.3	4535.0	4509.7	4522.4	4516.0	4509.7
5°	4661.5	4667.8	4655.2	4674.2	4674.2	4680.5	4674.2	4642.5	4642.5	4642.5	4629.9
7.5°	4629.9	4629.9	4636.2	4699.5	4762.7	4844.9	4844.9	4832.3	4844.9	4838.6	4781.7
10°	4364.2	4389.5	4446.5	4604.6	4756.4	4933.5	5053.7	5091.6	5091.6	5097.9	5003.1
12.5°	3889.9	3908.8	4041.7	4282.0	4598.3	4920.8	5211.8	5401.5	5420.5	5452.1	5325.6
15°	3466.1	3478.7	3573.6	3820.3	4180.8	4750.1	5300.3	5692.5	5755.7	5888.6	5698.8
17.5°	3504.0	3497.7	3523.0	3617.9	3877.2	4471.8	5281.4	6034.0	6147.9	6381.9	6217.5
20°	3731.7	3731.7	3750.7	3769.7	3864.6	4269.4	5142.2	6312.3	6533.7	6989.1	6799.3
22.5°	4092.3	4092.3	4085.9	4117.6	4117.6	4357.9	5148.5	6521.0	6849.9	7665.9	7482.4
25°	4591.9	4566.6	4566.6	4579.3	4522.4	4693.1	5306.7	6736.1	7166.2	8469.1	8311.0
27.5°	5154.9	5173.8	5161.2	5116.9	5041.0	5173.8	5686.2	7071.3	7520.4	9316.7	9253.4
30°	5768.4	5774.7	5787.4	5762.1	5698.8	5793.7	6280.7	7577.3	7988.4	10202.2	10341.3
32.5°	6369.3	6457.8	6426.2	6362.9	6388.2	6559.0	7014.4	8260.4	8684.2	11024.4	11517.8
35°	7134.6	7166.2	7292.7	7058.7	7065.0	7355.9	7950.5	9158.6	9569.7	11878.3	12694.2
37.5°	8247.8	8304.7	8247.8	7880.9	7824.0	8228.8	8861.3	10044.1	10341.3	12523.5	13788.4
40°	9342.0	9411.6	9506.4	9076.3	8715.8	9051.0	9721.5	10720.8	11030.8	12877.6	14515.8
42.5°	10246.5	10360.3	10259.1	10132.6	9803.7	9867.0	10322.4	11245.8	11555.7	13326.7	15249.5
45°	11011.8	11030.8	11075.0	10986.5	10822.0	10765.1	10834.7	11707.5	12049.1	13529.1	15610.0
47.5°	11328.0	11410.3	11448.2	11600.0	11770.8	11656.9	11271.1	11922.6	12232.5	13516.5	15723.9
50°	11157.3	11239.5	11441.9	11802.4	12213.5	12415.9	11783.4	12219.9	12567.7	13744.2	15957.9
52.5°	10708.2	10796.7	11125.6	11536.8	12226.2	12687.9	12504.5	12839.7	13174.9	14149.0	16350.1
55°	9620.3	9753.1	10214.8	10897.9	11846.7	12542.4	13263.5	13750.5	14117.3	14636.0	16754.9
57.5°	8039.0	8178.2	8696.8	9721.5	11144.6	11941.6	13484.8	15458.2	15622.7	15217.9	16792.8
60°	*6021.4*	*6135.2*	*6868.9*	*7691.2*	*9361.0*	*10841.0*	*13358.3*	*17077.4*	*17494.9*	*15116.7*	*15584.7*
62.5°	4769.0	4908.2	5559.7	5939.2	7134.6	8956.2	12915.6	17526.5	17887.0	14281.8	13902.3
65°	3725.4	3820.3	4427.5	4971.4	5262.4	6116.3	11068.7	15331.7	15654.3	12921.9	11473.5
67.5°	2460.4	2605.9	3326.9	4073.3	4225.1	3889.9	7615.3	11796.1	11947.9	10271.8	8627.3
70°	1764.7	1834.2	2371.9	3168.8	3396.5	2605.9	4149.2	8930.9	8975.1	6894.2	5812.7
72.5°	1201.7	1214.4	1612.9	2428.8	2707.1	1891.2	2283.3	5882.2	5730.4	3402.8	3326.9
75°	815.9	828.6	1031.0	1619.2	1916.5	1315.6	1486.4	3206.8	3080.3	1878.5	2017.7
77.5°	550.3	562.9	708.4	1087.9	1277.6	910.8	1087.9	1695.1	1663.5	1246.0	1081.6
80°	417.4	436.4	525.0	695.7	891.8	531.3	619.8	803.3	815.9	664.1	550.3
82.5°	234.0	259.3	316.2	354.2	575.6	297.3	297.3	480.7	461.7	411.1	297.3
85°	101.2	107.5	126.5	132.8	234.0	126.5	107.5	208.7	215.0	202.4	94.9
87.5°	19.0	19.0	19.0	19.0	19.0	19.0	19.0	25.3	25.3	25.3	25.3
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°	4465.4	4465.4	4465.4	4465.4	4465.4	4465.4	4465.4	4465.4	4465.4	4465.4	4465.4
2.5°	4478.1	4516.0	4478.1	4459.1	4459.1	4427.5	4414.8	4414.8	4370.6	4389.5	4376.9
5°	4579.3	4591.9	4547.7	4490.7	4414.8	4351.6	4263.0	4149.2	4079.6	4073.3	4079.6
7.5°	4737.4	4743.7	4623.6	4497.1	4307.3	4079.6	3807.6	3586.3	3390.2	3358.6	3396.5
10°	4958.8	4946.1	4769.0	4471.8	4073.3	3592.6	3175.1	2972.7	2858.9	2852.6	2846.2
12.5°	5256.1	5173.8	4901.9	4364.2	3668.5	3111.9	2896.8	2884.2	2915.8	2941.1	2947.4
15°	5597.6	5490.1	5009.4	4155.5	3257.4	2934.8	2947.4	3055.0	3092.9	3118.2	3118.2
17.5°	6021.4	5882.2	5129.6	3858.2	3048.6	2972.7	3061.3	3162.5	3225.7	3251.0	3244.7
20°	6584.3	6293.4	5224.4	3573.6	2991.7	3036.0	3111.9	3213.1	3276.3	3308.0	3308.0
22.5°	7147.2	6786.7	5243.4	3377.5	2991.7	3042.3	3111.9	3213.1	3282.7	3314.3	3308.0
25°	7912.5	7419.2	5249.7	3238.4	2998.0	3010.7	3073.9	3162.5	3263.7	3295.3	3308.0
27.5°	8728.5	8114.9	5281.4	3206.8	2972.7	2966.4	3010.7	3092.9	3194.1	3276.3	3282.7
30°	9740.5	8899.2	5294.0	3238.4	2979.1	2896.8	2928.5	3010.7	3118.2	3200.4	3225.7
32.5°	10733.5	9626.6	5268.7	3308.0	2991.7	2852.6	2858.9	2909.5	3023.3	3080.3	3124.5
35°	11783.4	10398.3	5224.4	3402.8	2998.0	2833.6	2776.7	2802.0	2877.9	2884.2	2903.2
37.5°	12605.7	10973.8	5091.6	3529.3	3010.7	2764.0	2650.2	2631.2	2599.6	2536.3	2549.0
40°	13282.4	11359.7	4870.2	3592.6	2979.1	2681.8	2492.0	2403.5	2283.3	2188.4	2207.4
42.5°	13769.5	11619.0	4604.6	3605.2	2928.5	2542.6	2308.6	2156.8	2024.0	1922.8	1929.1
45°	13984.5	11593.7	4320.0	3510.4	2808.3	2371.9	2137.8	1992.4	1846.9	1739.4	1726.7
47.5°	13990.8	11347.0	3927.8	3282.7	2605.9	2175.8	1979.7	1821.6	1701.4	1625.5	1619.2
50°	14041.4	11207.9	3561.0	2953.8	2340.2	1967.1	1840.6	1682.4	1612.9	1505.3	1473.7
52.5°	14357.7	11435.6	3308.0	2593.2	2093.6	1815.3	1720.4	1581.2	1467.4	1397.8	1391.5
55°	14870.0	11827.7	3168.8	2321.3	1859.5	1669.8	1606.5	1486.4	1385.2	1315.6	1296.6
57.5°	14933.3	12030.1	3004.4	2068.3	1669.8	1555.9	1530.6	1397.8	1252.3	1201.7	1182.8
60°	*14047.8*	*11688.6*	*2802.0*	*1834.2*	*1530.6*	*1467.4*	*1454.7*	*1277.6*	*1157.5*	*1094.2*	*1068.9*
62.5°	12839.7	10834.7	2492.0	1619.2	1423.1	1378.8	1328.2	1189.1	1037.3	967.7	948.7
65°	10493.1	9108.0	2118.9	1473.7	1315.6	1265.0	1252.3	1062.6	961.4	923.4	917.1
67.5°	7950.5	7318.0	1865.9	1366.2	1201.7	1182.8	1138.5	1075.2	1031.0	986.7	974.0
70°	5622.9	5281.4	1587.6	1227.0	1087.9	1056.3	1239.7	1170.1	1012.0	955.1	948.7
72.5°	3409.2	3314.3	1372.5	1100.5	936.1	986.7	1144.8	1056.3	910.8	841.2	815.9
75°	2150.5	1967.1	1151.1	936.1	746.3	803.3	999.3	942.4	784.3	714.7	695.7
77.5°	1170.1	1087.9	866.5	765.3	588.2	651.5	872.8	778.0	626.2	683.1	607.2
80°	512.3	569.2	575.6	442.7	392.1	480.7	626.2	607.2	480.7	487.0	404.8
82.5°	246.7	322.6	373.2	303.6	221.4	284.6	417.4	347.9	322.6	303.6	290.9
85°	75.9	120.2	164.4	145.5	101.2	120.2	196.1	189.7	227.7	196.1	183.4
87.5°	25.3	25.3	19.0	19.0	19.0	25.3	31.6	19.0	6.3	6.3	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°	4465.4	4465.4	4465.4	4465.4	4465.4	4465.4	4465.4	4465.4	4465.4	4465.4	4465.4
2.5°	4370.6	4376.9	4376.9	4383.2	4383.2	4402.2	4427.5	4452.8	4433.8	4459.1	4465.4
5°	4067.0	4098.6	4123.9	4218.8	4294.7	4357.9	4427.5	4490.7	4509.7	4522.4	4554.0
7.5°	3352.2	3440.8	3605.2	3820.3	4060.6	4294.7	4452.8	4617.2	4642.5	4674.2	4718.4
10°	2852.6	2890.5	3004.4	3225.7	3655.8	4117.6	4503.4	4762.7	4870.2	4933.5	4977.8
12.5°	2934.8	2909.5	2890.5	2922.1	3200.4	3795.0	4471.8	4971.4	5173.8	5243.4	5300.3
15°	3130.9	3105.6	3036.0	2947.4	2979.1	3453.4	4364.2	5167.5	5490.1	5603.9	5724.1
17.5°	3244.7	3219.4	3162.5	3067.6	2985.4	3168.8	4161.8	5344.6	5989.8	6128.9	6299.7
20°	3308.0	3282.7	3225.7	3130.9	3036.0	3061.3	3902.5	5566.0	6559.0	6780.4	7033.4
22.5°	3320.6	3289.0	3225.7	3130.9	3073.9	3055.0	3655.8	5698.8	7172.5	7514.1	7805.0
25°	3314.3	3257.4	3175.1	3105.6	3073.9	3067.6	3485.1	5774.7	7836.6	8380.6	8709.5
27.5°	3270.0	3200.4	3118.2	3067.6	3055.0	3092.9	3409.2	5863.3	8614.6	9310.4	9835.3
30°	3219.4	3118.2	3017.0	2998.0	3029.7	3149.8	3472.4	5894.9	9430.5	10322.4	10860.0
32.5°	3086.6	3010.7	2909.5	2903.2	2979.1	3194.1	3617.9	5850.6	10151.6	11334.4	12011.1
35°	2896.8	2852.6	2795.6	2814.6	2934.8	3232.1	3719.1	5711.5	10809.4	12276.8	13067.4
37.5°	2561.6	2593.2	2624.9	2669.1	2820.9	3225.7	3763.4	5490.1	11353.3	13029.4	14041.4
40°	2188.4	2296.0	2397.2	2511.0	2713.4	3175.1	3776.0	5218.1	11669.6	13598.7	14908.0
42.5°	1954.4	2055.6	2182.1	2346.6	2567.9	3061.3	3763.4	4914.5	11770.8	13990.8	15458.2
45°	1739.4	1859.5	2017.7	2188.4	2441.4	2896.8	3649.5	4585.6	11821.4	14174.3	15692.3
47.5°	1625.5	1695.1	1840.6	2011.3	2277.0	2694.4	3428.1	4345.3	11745.5	14212.2	15976.9
50°	1492.7	1587.6	1682.4	1846.9	2106.2	2441.4	3162.5	4206.1	11872.0	14585.4	16426.0
52.5°	1391.5	1442.1	1543.3	1695.1	1884.8	2207.4	2909.5	4092.3	12219.9	14964.9	16894.0
55°	1315.6	1372.5	1435.8	1562.3	1707.7	1973.4	2650.2	3921.5	12624.7	15369.7	17362.1
57.5°	1195.4	1233.4	1321.9	1454.7	1549.6	1745.7	2346.6	3719.1	12593.0	15053.4	16552.5
60°	*1087.9*	*1125.8*	*1220.7*	*1353.5*	*1410.5*	*1543.3*	*2049.3*	*3459.8*	*11985.8*	*14022.5*	*15059.8*
62.5°	967.7	1012.0	1125.8	1220.7	1271.3	1372.5	1739.4	2985.4	10720.8	12472.9	13314.1
65°	917.1	942.4	1018.3	1132.2	1125.8	1220.7	1467.4	2346.6	8627.3	9531.7	10297.1
67.5°	974.0	1012.0	999.3	1031.0	1012.0	1062.6	1315.6	1884.8	6780.4	7178.8	7621.6
70°	961.4	1049.9	1094.2	1031.0	885.5	942.4	1138.5	1505.3	4851.3	4813.3	4794.3
72.5°	841.2	929.8	1056.3	1119.5	866.5	784.3	986.7	1302.9	3111.9	3099.2	2802.0
75°	714.7	778.0	929.8	1012.0	746.3	632.5	847.5	1106.9	1859.5	1884.8	1682.4
77.5°	657.8	626.2	778.0	891.8	607.2	487.0	683.1	834.9	1024.6	1037.3	961.4
80°	474.4	455.4	581.9	651.5	461.7	347.9	385.8	518.6	550.3	493.3	512.3
82.5°	303.6	309.9	347.9	417.4	284.6	189.7	265.6	347.9	297.3	240.3	284.6
85°	196.1	221.4	183.4	215.0	88.5	88.5	113.8	151.8	101.2	69.6	75.9
87.5°	0.0	0.0	12.6	25.3	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: P1501508
CATALOG NUMBER: GSS-SB4D-827-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	4465.4	4465.4	4465.4	4465.4	4465.4	4465.4	4465.4	4465.4	4465.4	4465.4
2.5°	4484.4	4478.1	4478.1	4490.7	4522.4	4535.0	4554.0	4547.7	4566.6	4554.0
5°	4573.0	4579.3	4598.3	4604.6	4623.6	4648.9	4655.2	4648.9	4661.5	4661.5
7.5°	4750.1	4775.4	4762.7	4794.3	4769.0	4737.4	4686.8	4648.9	4617.2	4629.9
10°	5047.3	5034.7	5028.4	4971.4	4857.6	4693.1	4560.3	4414.8	4389.5	4364.2
12.5°	5376.2	5363.6	5363.6	5167.5	4844.9	4503.4	4199.8	3972.1	3896.2	3889.9
15°	5838.0	5755.7	5679.8	5268.7	4623.6	4041.7	3687.5	3510.4	3466.1	3466.1
17.5°	6413.5	6198.5	6072.0	5192.8	4263.0	3738.1	3529.3	3485.1	3472.4	3504.0
20°	7128.2	6584.3	6400.9	5022.0	4130.2	3776.0	3674.8	3681.1	3687.5	3731.7
22.5°	7912.5	6938.5	6634.9	5022.0	4263.0	4016.4	3965.8	4035.3	4054.3	4092.3
25°	8785.4	7254.7	6843.6	5287.7	4655.2	4471.8	4408.5	4478.1	4528.7	4591.9
27.5°	9765.8	7583.6	7204.1	5768.4	5161.2	5047.3	4977.8	5009.4	5079.0	5154.9
30°	10644.9	8133.9	7754.4	6502.1	5850.6	5711.5	5591.3	5641.9	5717.8	5768.4
32.5°	11422.9	8804.4	8481.8	7273.7	6641.2	6400.9	6268.1	6255.4	6407.2	6369.3
35°	12137.6	9595.0	9285.1	8152.9	7444.5	7147.2	6970.1	7197.8	7096.6	7134.6
37.5°	12700.6	10417.2	10170.6	8994.1	8279.4	7874.6	7767.1	8045.4	8203.5	8247.8
40°	13162.3	11132.0	10872.6	9829.0	9044.7	8747.4	8918.2	9379.9	9361.0	9342.0
42.5°	13516.5	11745.5	11460.9	10461.5	9778.4	9835.3	9968.2	10278.1	10354.0	10246.5
45°	13674.6	12131.3	11903.6	10961.2	10613.3	10942.2	10999.1	11132.0	11081.4	11011.8
47.5°	13858.0	12472.9	12232.5	11416.6	11517.8	11840.4	11726.5	11619.0	11435.6	11328.0
50°	14167.9	12877.6	12675.3	12080.7	12447.6	12340.0	11897.3	11656.9	11283.8	11157.3
52.5°	14756.2	13643.0	13491.2	13130.6	12884.0	12264.1	11726.5	11296.4	10879.0	10708.2
55°	15281.1	14680.3	14591.7	14111.0	12751.2	11865.7	11144.6	10480.5	9765.8	9620.3
57.5°	15584.7	16400.7	16501.9	14528.5	12144.0	10961.2	9898.6	8836.0	8159.2	8039.0
60°	14680.3	18260.2	18310.8	14446.2	11049.7	9329.3	7710.1	6957.5	6230.1	6021.4
62.5°	13434.2	17874.4	17830.1	13952.9	8798.0	6805.7	5856.9	5502.7	4939.8	4769.0
65°	11549.4	14889.0	14939.6	12055.4	5850.6	4920.8	4920.8	4471.8	3845.6	3725.4
67.5°	9411.6	11479.8	11366.0	7817.7	3592.6	3940.5	4130.2	3485.1	2605.9	2460.4
70°	6116.3	8766.4	8608.3	4509.7	2258.0	3282.7	3251.0	2618.5	1865.9	1764.7
72.5°	2631.2	5066.3	5388.9	2302.3	1701.4	2643.8	2593.2	1834.2	1246.0	1201.7
75°	1587.6	2549.0	2776.7	1467.4	1239.7	1992.4	1796.3	1163.8	847.5	815.9
77.5°	1005.7	1397.8	1385.2	1100.5	929.8	1347.2	1208.1	803.3	575.6	550.3
80°	581.9	689.4	714.7	689.4	626.2	961.4	771.6	581.9	449.1	417.4
82.5°	373.2	430.1	436.4	335.2	347.9	619.8	417.4	341.5	259.3	234.0
85°	164.4	183.4	177.1	113.8	113.8	253.0	145.5	139.1	101.2	101.2
87.5°	6.3	12.6	6.3	6.3	6.3	25.3	12.6	19.0	19.0	19.0
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

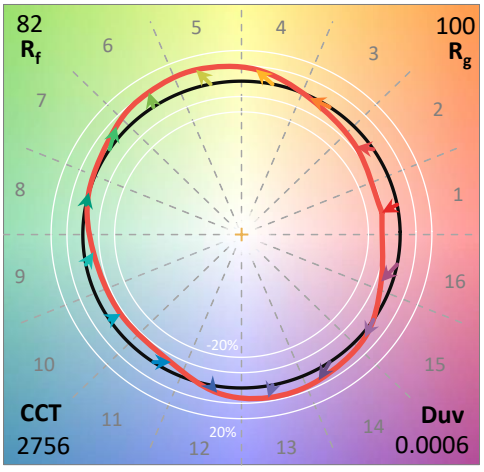
Test Information

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

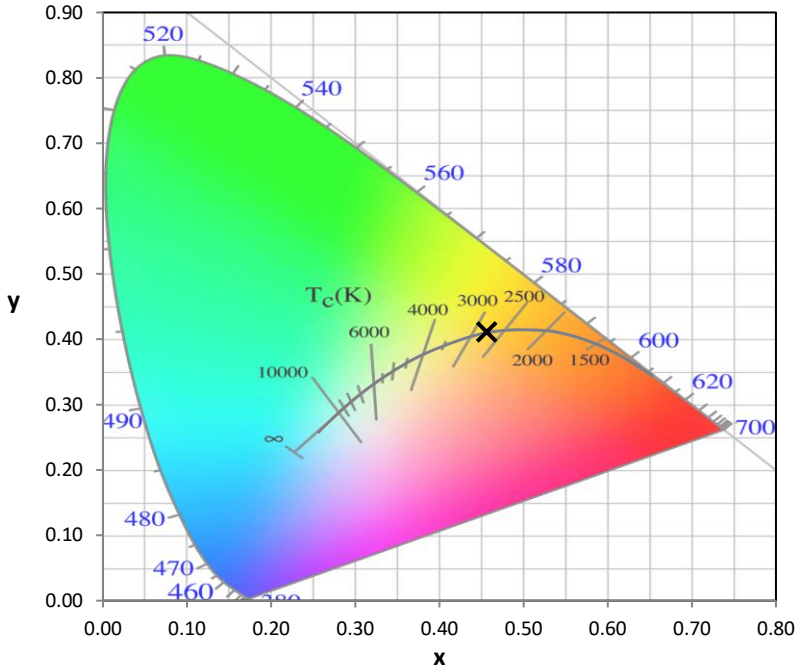
Stabilization Time:	29M
Operation Time:	1H 29M
Sphere Temperature (°C):	25.2

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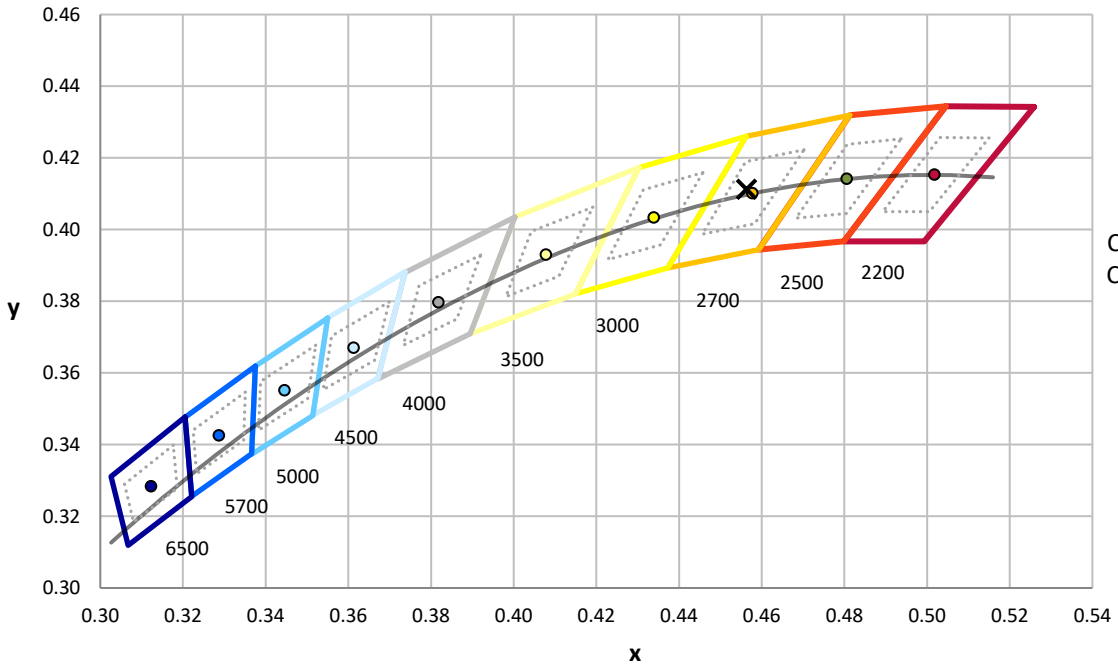
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



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

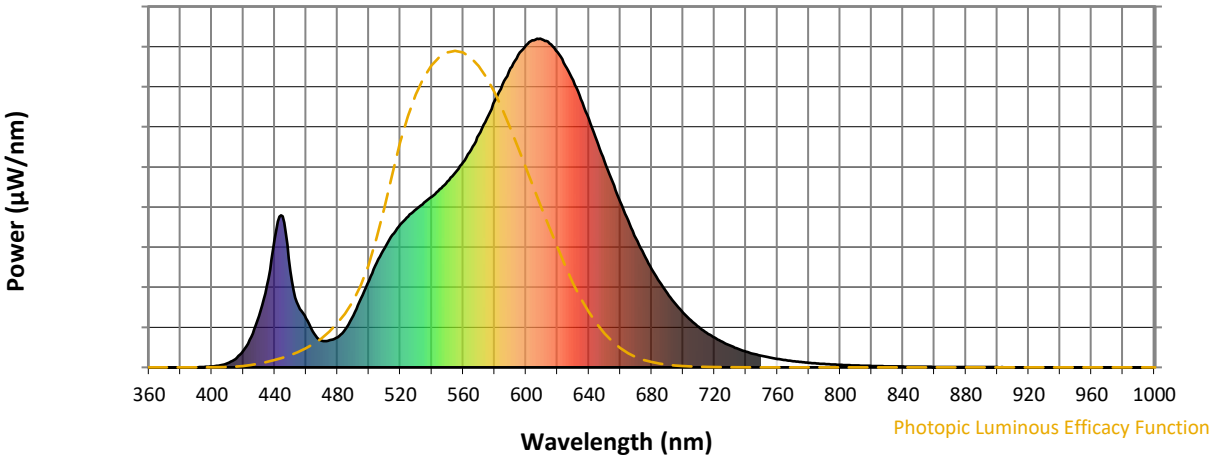


CCT = 2756K
CIE x = 0.4563
CIE y = 0.4112
Duv = 0.0006

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-8

Photopic Flux vs. Wavelength

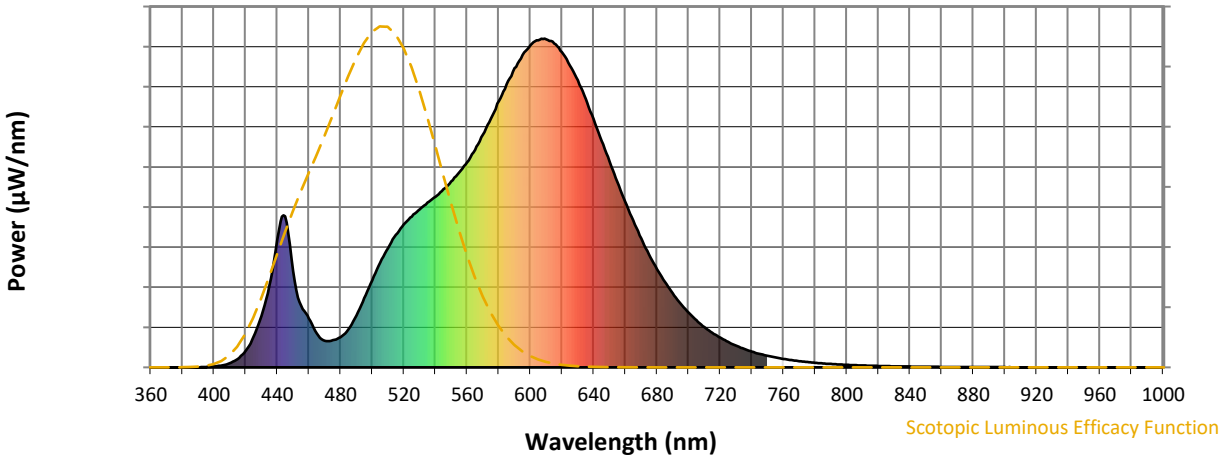


Photopic Lumens: NR

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

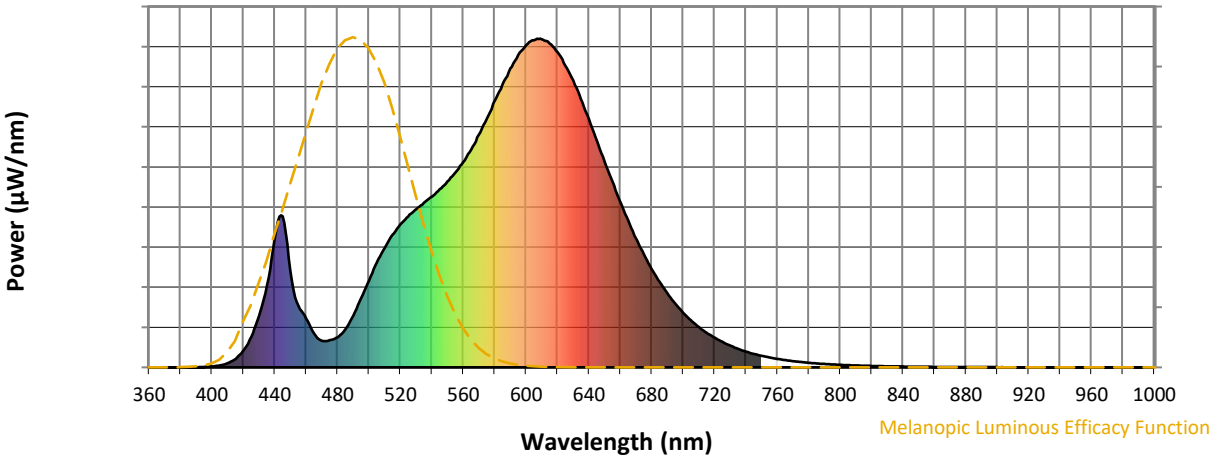


Scotopic Lumens: NR **S/P: 1.2**

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			

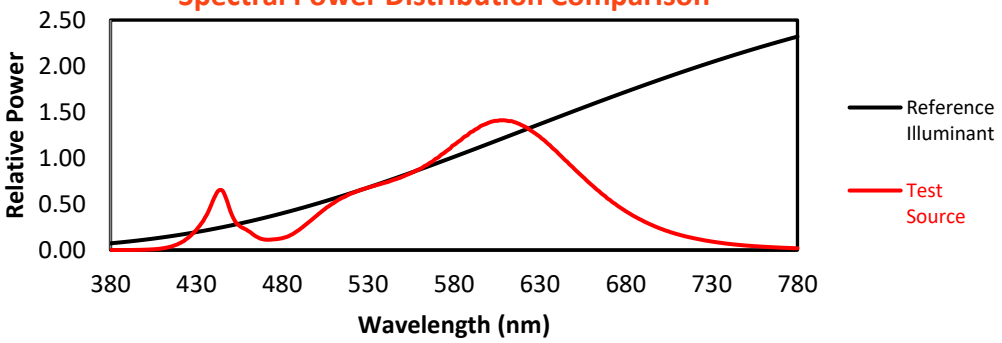
REPORT NUMBER: SP1-2407-184-8

TM-30-18

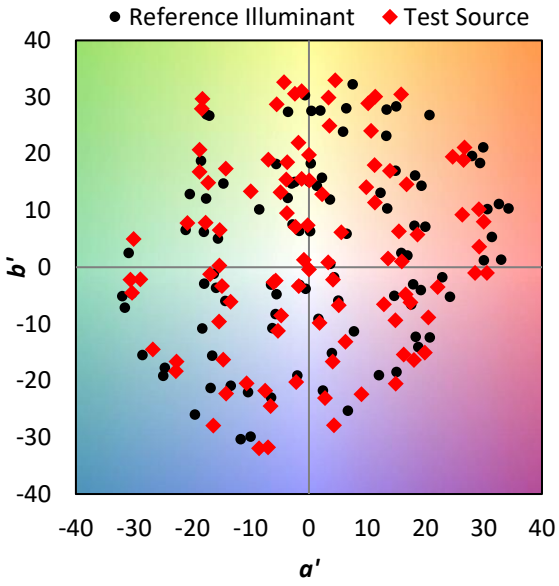
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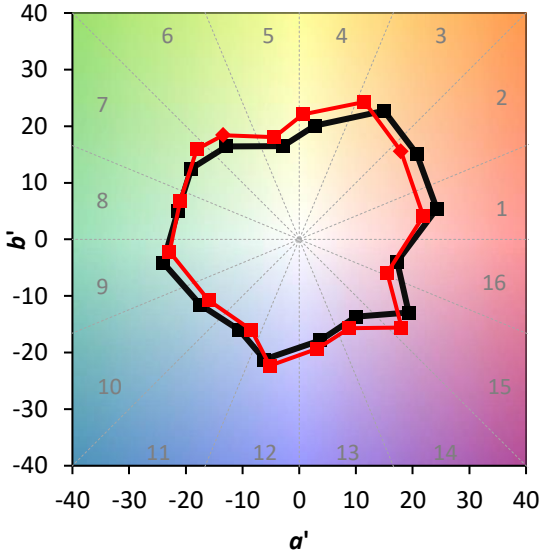
R_f = 82.2
R_g = 99.9
CIE R_a = 82.9
R_9 = 10.8

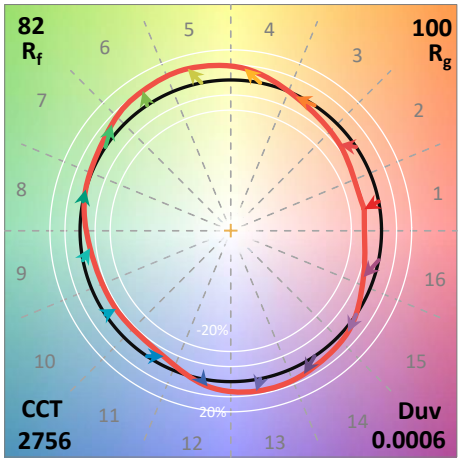
Spectral Power Distribution Comparison

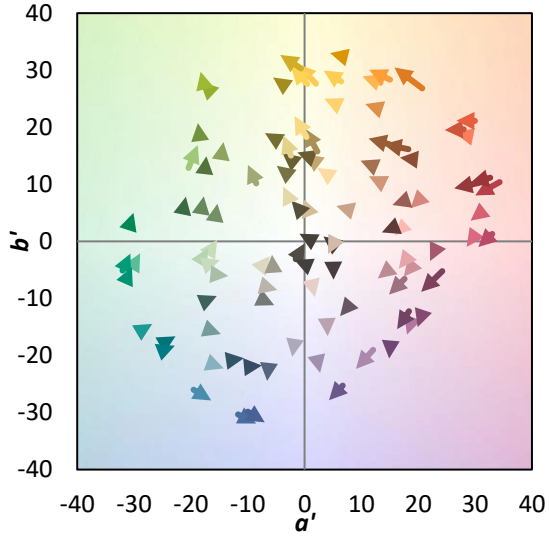


Color Vector Graphics







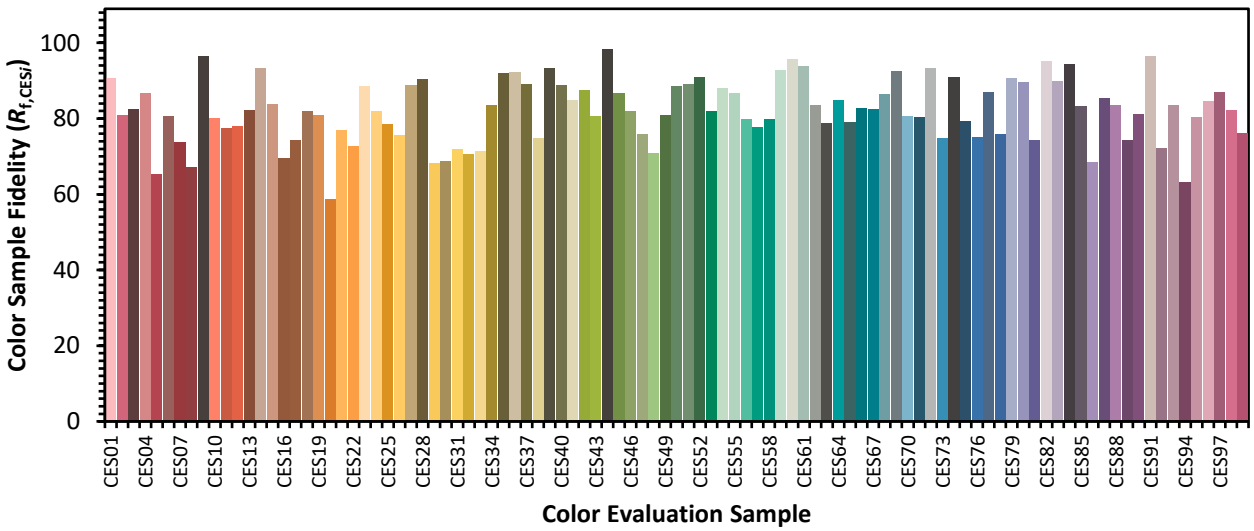


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Individual Sample Fidelity Index ($R_{f,i}$)

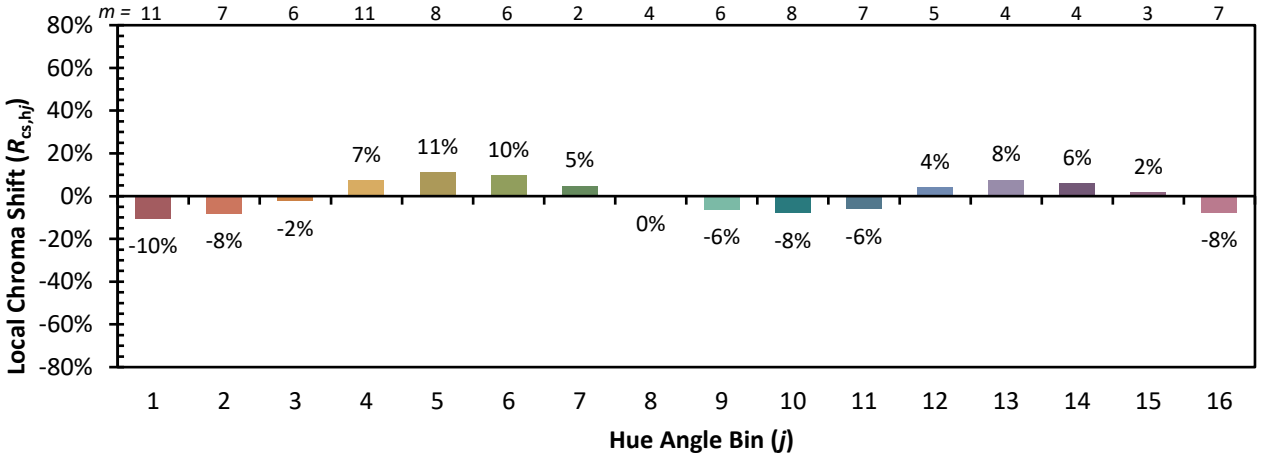
CES01 = 86	CES26 = 76	CES51 = 89	CES76 = 75
CES02 = 63	CES27 = 89	CES52 = 91	CES77 = 87
CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 78	CES82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

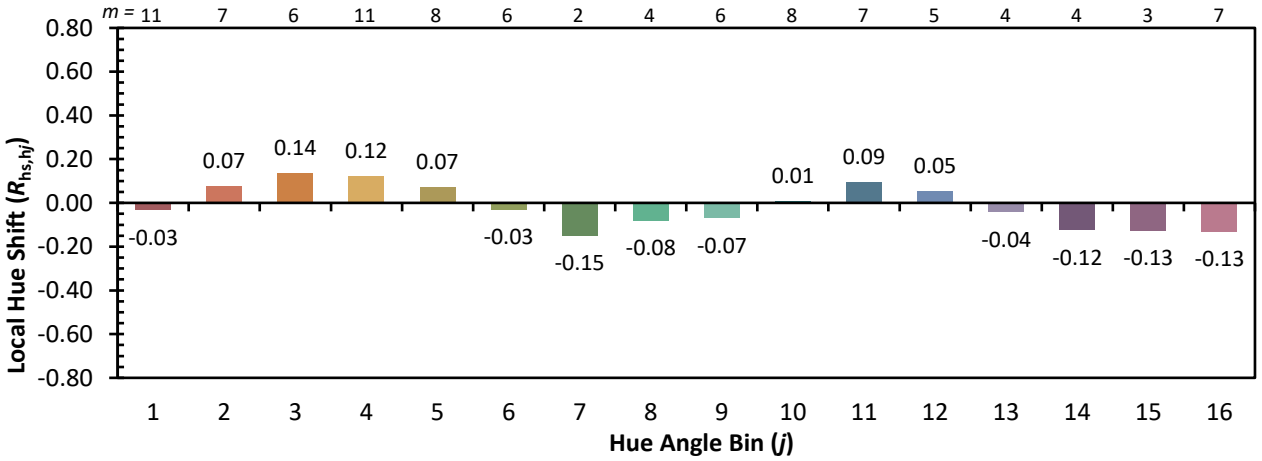


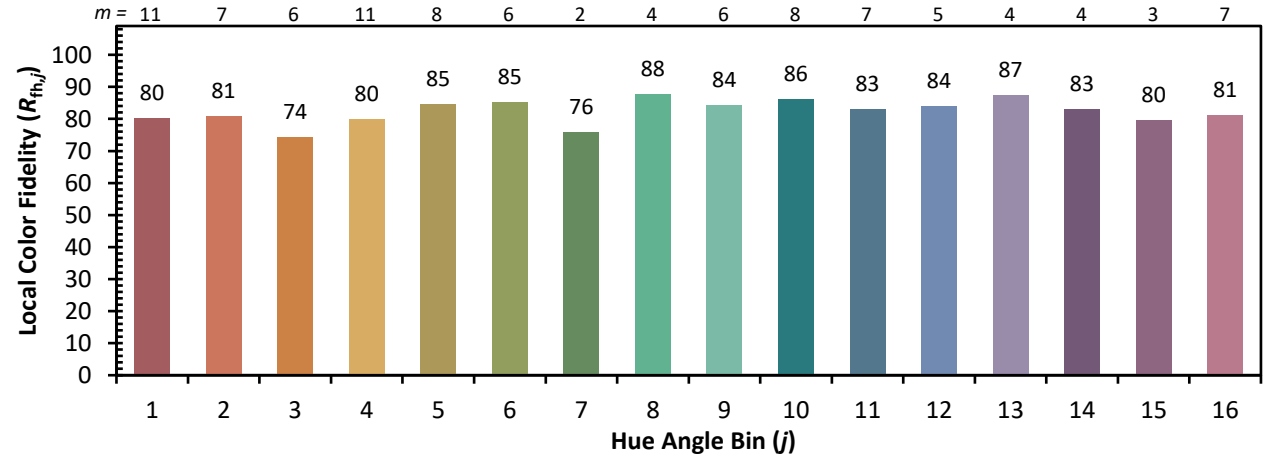
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Color Rendition by Hue-Angle Bin



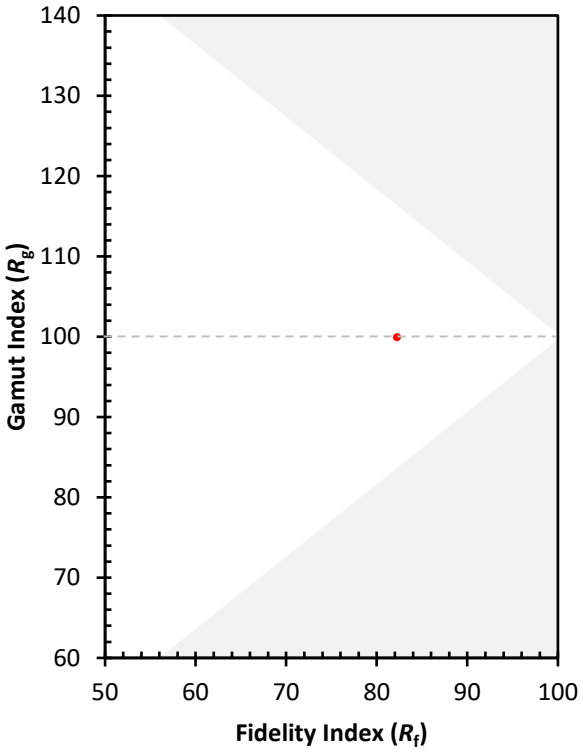


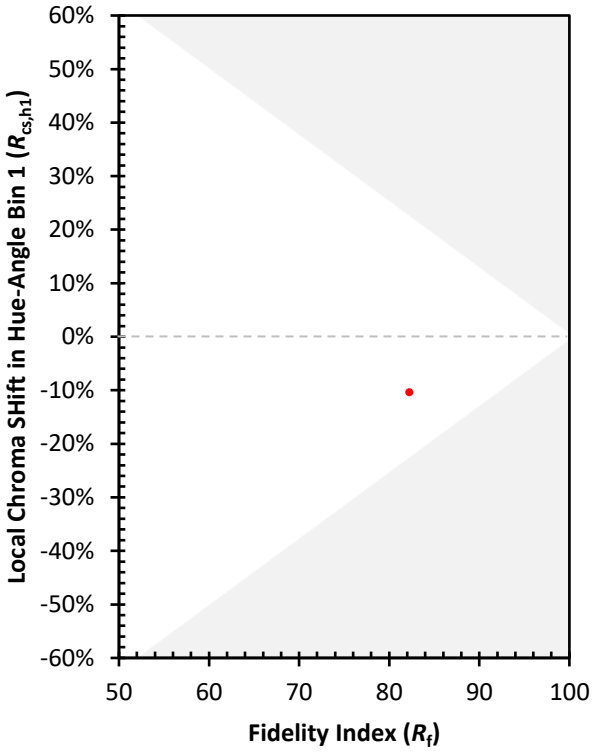


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Measure Comparisons





(END OF REPORT)