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: P1501814

Luminaire Tested: GSS-SB3B-735-U-T2LG-HSS

Issue Date: 07/20/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501814
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB3B-735-U-T2LG-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 3SQUARE 109W 70CRI 3500K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE W/ HOUSE SIDE SHIELD
Light Source:	(78) 3500K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	12798 lumens
Efficiency:	N/A
Efficacy:	117.4 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

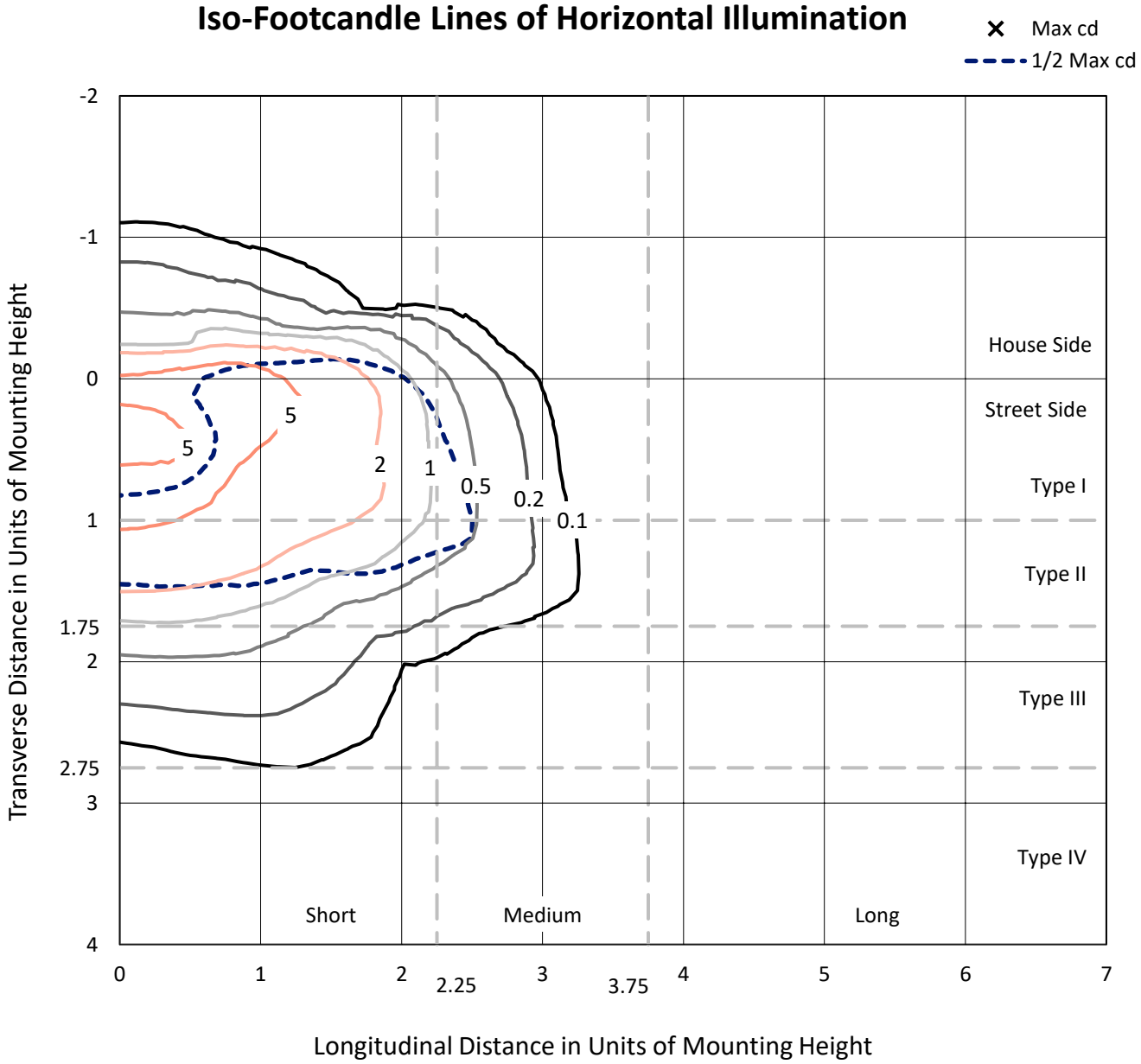
Input Watts (W):	109
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	8.7%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



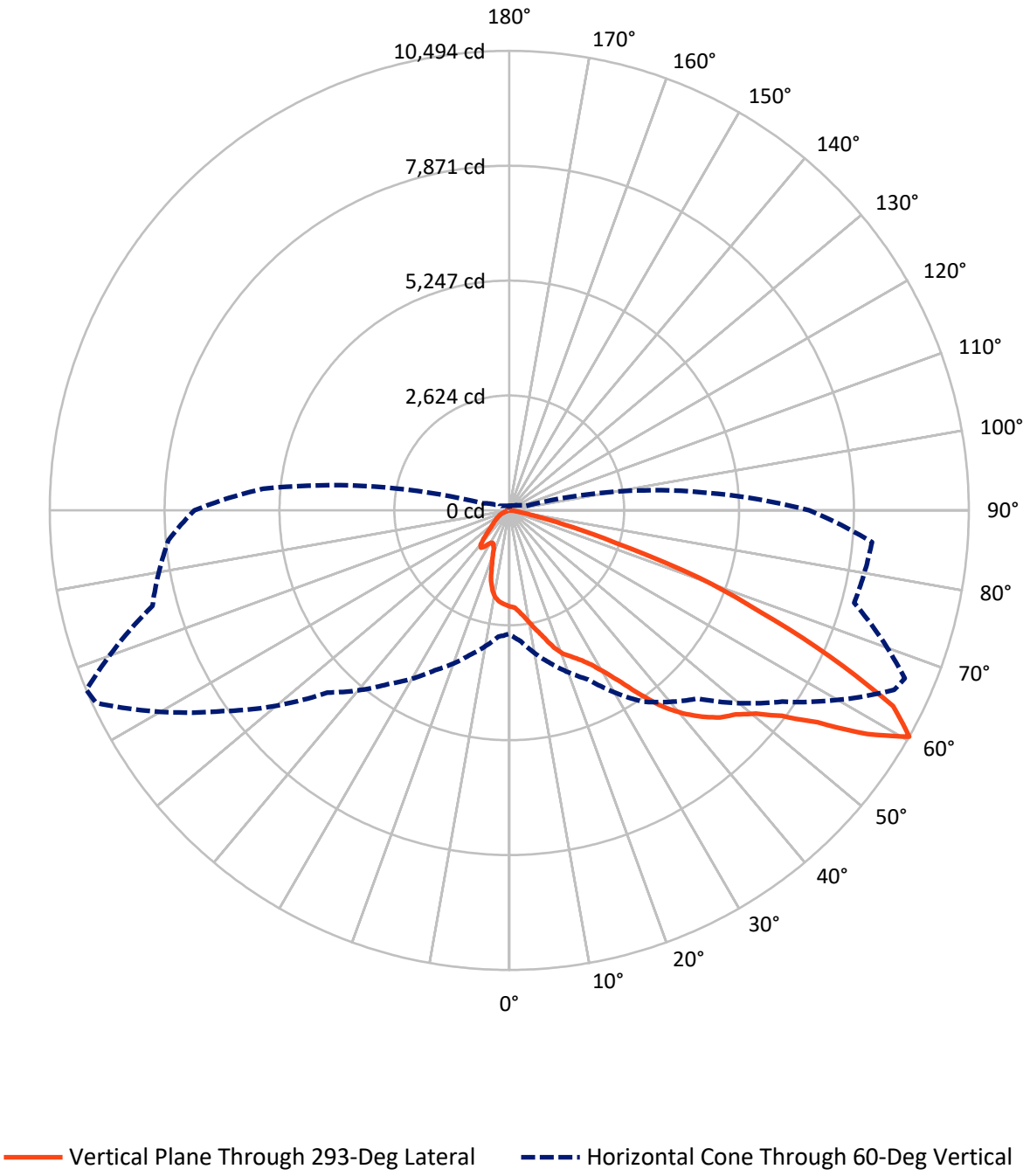
Based on 20 foot mounting height. Maximum calculated value = 9.1 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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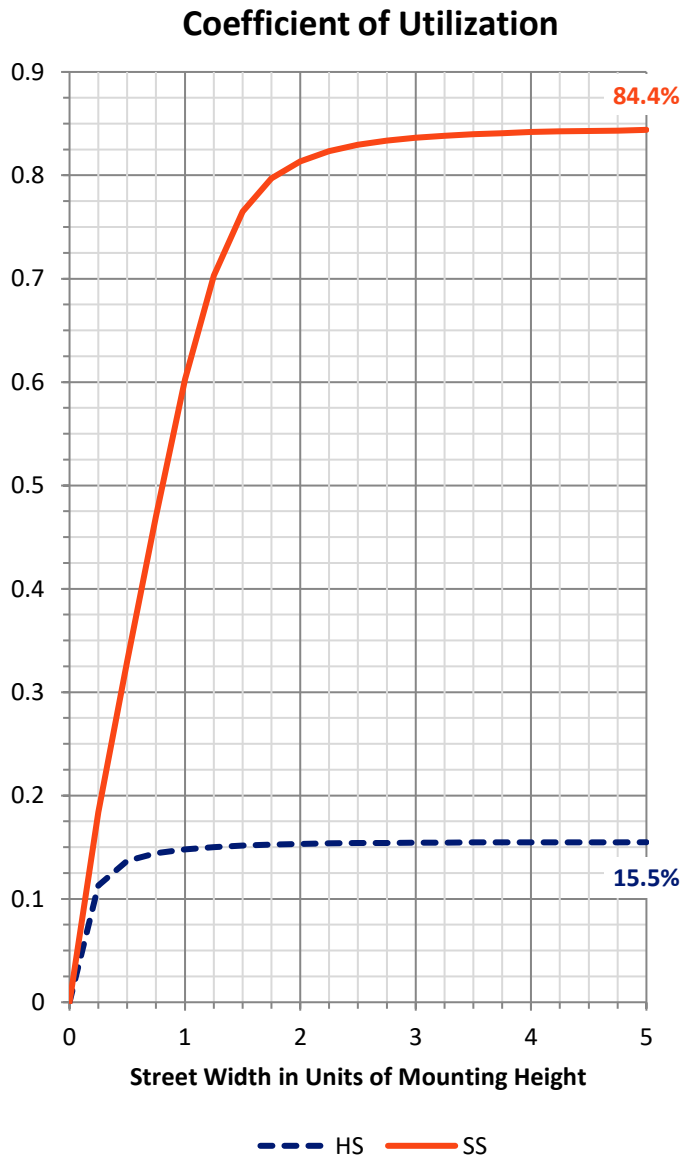
REPORT NUMBER: P1501814
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1996.8	0.0	1996.8
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	10801.2	0.0	10801.2
	% Fixture	84.4	0.0	84.4
Total	Lumens	12798.0	0.0	12798.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.6	1.6
10°-20°	500.2	3.9
20°-30°	933.8	7.3
30°-40°	1851.8	14.5
40°-50°	2952.5	23.1
50°-60°	3527.5	27.6
60°-70°	2312.5	18.1
70°-80°	484.5	3.8
80°-90°	36.7	0.3
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°	12798.0	100.0
0°-180°	12798.0	100.0



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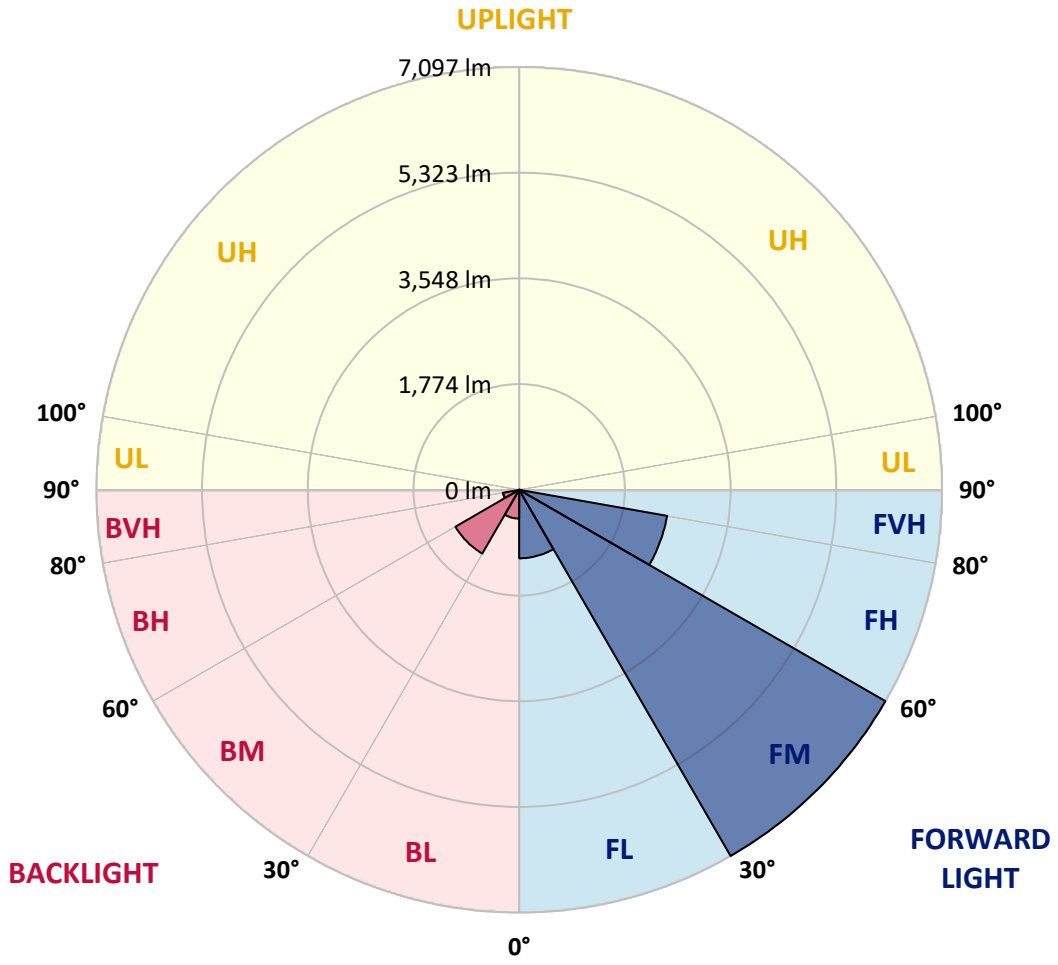
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1149.5	9.0			
FM	(30°-60°)	7097.0	55.5			
FH	(60°-80°)	2521.1	19.7			G2/5000
FVH	(80°-90°)	33.6	0.3			G1/100
BL	(0°-30°)	483.1	3.8	B1/500		
BM	(30°-60°)	1234.8	9.6	B2/2500		
BH	(60°-80°)	275.8	2.2	B1/500		G1/500
BVH	(80°-90°)	3.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2193.5	2193.5	2193.5	2193.5	2193.5	2193.5	2193.5	2193.5	2193.5	2193.5	2193.5
2.5°	2304.6	2297.4	2286.6	2290.2	2286.6	2272.3	2250.8	2232.9	2247.2	2225.7	2211.4
5°	2372.7	2372.7	2365.5	2365.5	2369.1	2361.9	2347.6	2322.5	2326.1	2308.1	2261.6
7.5°	2372.7	2361.9	2379.8	2397.7	2430.0	2447.9	2455.1	2440.8	2447.9	2412.1	2351.2
10°	2232.9	2225.7	2272.3	2340.4	2433.6	2516.0	2569.8	2573.4	2584.1	2548.3	2476.6
12.5°	1935.4	1921.1	2014.2	2143.3	2333.2	2523.2	2673.7	2731.1	2756.2	2741.8	2641.5
15°	1659.4	1677.3	1741.9	1881.6	2136.1	2426.4	2731.1	2921.0	2956.9	2974.8	2856.5
17.5°	1630.8	1634.3	1655.8	1723.9	1917.5	2268.7	2738.2	3118.1	3168.3	3247.2	3085.9
20°	1709.6	1702.4	1723.9	1745.4	1838.6	2128.9	2670.1	3308.1	3404.9	3573.3	3397.7
22.5°	1856.6	1856.6	1867.3	1881.6	1928.2	2118.2	2641.5	3483.7	3648.6	3992.7	3788.4
25°	2103.9	2075.2	2082.3	2064.4	2103.9	2247.2	2706.0	3623.5	3849.3	4458.6	4254.3
27.5°	2487.3	2498.1	2433.6	2336.8	2358.3	2480.2	2863.7	3781.2	4057.2	4942.4	4727.4
30°	3017.8	2999.9	2960.4	2770.5	2684.5	2792.0	3154.0	4039.3	4336.7	5555.3	5358.2
32.5°	3433.5	3483.7	3415.6	3283.0	3150.4	3182.7	3562.6	4455.0	4677.2	6118.0	6010.5
35°	3935.3	3935.3	3949.6	3763.3	3673.7	3666.5	4075.1	4906.6	5128.8	6627.0	6702.2
37.5°	4612.7	4566.1	4487.3	4279.4	4211.3	4300.9	4555.4	5372.5	5612.7	7039.1	7239.8
40°	5182.6	5214.8	5204.1	4903.0	4770.4	4867.2	5093.0	5770.4	5956.7	7304.3	7673.5
42.5°	5741.7	5759.6	5713.0	5569.7	5376.1	5383.3	5569.7	6071.4	6261.4	7558.8	8082.1
45°	6161.0	6157.4	6125.2	6089.3	5974.7	5856.4	5888.6	6404.7	6569.6	7641.2	8304.3
47.5°	6293.6	6322.3	6351.0	6451.3	6530.2	6343.8	6178.9	6583.9	6734.5	7626.9	8386.7
50°	6171.8	6232.7	6372.5	6523.0	6791.8	6777.5	6422.7	6777.5	6924.4	7705.8	8483.5
52.5°	5899.4	5960.3	6146.7	6419.1	6824.1	7024.8	6874.3	7103.6	7275.7	7906.5	8684.2
55°	5265.0	5290.1	5673.6	6032.0	6662.8	6917.3	7358.1	7655.6	7798.9	8150.2	8949.4
57.5°	4286.6	4347.5	4723.8	5308.0	6211.2	6634.1	7634.1	8598.2	8594.6	8383.1	9006.8
60°	*2820.7*	*2999.9*	*3612.7*	*4257.9*	*5336.7*	*6078.6*	*7616.2*	*9702.1*	*9813.2*	*8153.8*	*8315.1*
62.5°	2154.0	2229.3	2576.9	3114.6	3949.6	5039.2	7497.9	10031.8	10117.8	7537.3	7279.3
65°	1620.0	1713.2	2046.5	2526.8	2788.4	3415.6	6723.7	8720.1	8838.3	6727.3	5659.3
67.5°	992.8	1068.1	1512.5	2075.2	2111.0	2121.8	4537.4	6605.4	6648.5	5426.3	3809.9
70°	663.1	738.3	1046.5	1594.9	1680.9	1222.2	2490.9	4999.8	4996.2	3713.1	2315.3
72.5°	383.5	419.3	663.1	1175.6	1322.5	777.7	1243.7	3179.1	3039.3	1745.4	1082.4
75°	218.6	243.7	365.6	756.2	928.3	494.6	491.0	1702.4	1505.3	899.6	591.4
77.5°	132.6	143.4	200.7	494.6	559.1	333.3	272.4	792.1	763.4	526.9	311.8
80°	64.5	75.3	121.9	290.3	358.4	179.2	164.9	311.8	333.3	290.3	164.9
82.5°	21.5	28.7	68.1	111.1	233.0	71.7	68.1	172.0	182.8	172.0	78.8
85°	10.8	14.3	32.3	35.8	89.6	35.8	25.1	75.3	93.2	57.3	32.3
87.5°	0.0	3.6	3.6	3.6	3.6	3.6	3.6	7.2	7.2	7.2	7.2
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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REPORT NUMBER: P1501814
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2193.5	2193.5	2193.5	2193.5	2193.5	2193.5	2193.5	2193.5	2193.5	2193.5	2193.5
2.5°	2200.6	2193.5	2179.1	2154.0	2150.4	2132.5	2103.9	2085.9	2071.6	2082.3	2085.9
5°	2240.0	2222.1	2179.1	2111.0	2039.3	1967.7	1899.6	1820.7	1766.9	1759.8	1745.4
7.5°	2311.7	2275.9	2182.7	2050.1	1867.3	1695.3	1494.6	1301.0	1204.2	1189.9	1157.7
10°	2426.4	2365.5	2211.4	1942.6	1591.3	1232.9	928.3	720.4	602.1	580.6	587.8
12.5°	2562.6	2476.6	2215.0	1759.8	1211.4	763.4	526.9	448.0	422.9	412.2	412.2
15°	2738.2	2612.8	2211.4	1523.2	817.2	491.0	422.9	390.7	379.9	372.7	372.7
17.5°	2960.4	2795.6	2186.3	1168.4	551.9	426.5	387.1	362.0	347.7	344.1	344.1
20°	3222.1	2999.9	2128.9	870.9	462.3	397.8	365.6	333.3	322.6	315.4	315.4
22.5°	3555.4	3247.2	2017.8	677.4	437.3	379.9	344.1	308.2	297.5	290.3	290.3
25°	3942.5	3562.6	1870.9	609.3	433.7	365.6	322.6	286.7	276.0	272.4	268.8
27.5°	4401.2	3899.5	1734.7	612.9	440.8	354.8	301.1	268.8	258.1	247.3	250.9
30°	4942.4	4247.1	1623.6	655.9	448.0	344.1	286.7	258.1	247.3	233.0	233.0
32.5°	5476.5	4655.7	1612.8	734.7	473.1	336.9	272.4	243.7	233.0	222.2	222.2
35°	6024.8	5028.5	1673.8	838.7	523.3	326.2	254.5	229.4	218.6	211.5	207.9
37.5°	6548.1	5325.9	1731.1	903.2	494.6	279.6	233.0	211.5	200.7	186.4	186.4
40°	6895.8	5487.2	1741.9	853.0	408.6	250.9	211.5	190.0	175.6	168.5	164.9
42.5°	7150.2	5591.2	1620.0	691.7	354.8	229.4	193.5	172.0	161.3	154.1	154.1
45°	7254.2	5555.3	1412.1	526.9	326.2	211.5	175.6	157.7	150.5	143.4	143.4
47.5°	7239.8	5390.4	1200.7	422.9	297.5	193.5	164.9	150.5	143.4	136.2	132.6
50°	7214.7	5236.3	985.6	376.3	265.2	182.8	154.1	143.4	132.6	125.4	121.9
52.5°	7379.6	5186.2	817.2	344.1	247.3	175.6	150.5	136.2	125.4	118.3	118.3
55°	7544.5	5207.7	641.5	322.6	229.4	172.0	146.9	132.6	121.9	111.1	111.1
57.5°	7533.7	5114.5	487.4	301.1	215.0	168.5	143.4	129.0	111.1	103.9	103.9
60°	*6849.2*	*4562.5*	*379.9*	*276.0*	*197.1*	*157.7*	*132.6*	*121.9*	*103.9*	*93.2*	*93.2*
62.5°	5791.9	3587.7	311.8	243.7	175.6	143.4	121.9	111.1	93.2	75.3	75.3
65°	4279.4	2587.7	250.9	211.5	161.3	125.4	111.1	96.8	75.3	60.9	57.3
67.5°	2895.9	1591.3	200.7	175.6	143.4	107.5	93.2	82.4	68.1	50.2	46.6
70°	1716.8	845.8	146.9	121.9	107.5	78.8	78.8	71.7	57.3	43.0	39.4
72.5°	817.2	293.9	107.5	89.6	82.4	57.3	60.9	60.9	46.6	32.3	28.7
75°	415.8	143.4	71.7	64.5	53.8	43.0	50.2	46.6	32.3	21.5	21.5
77.5°	236.5	100.4	50.2	43.0	35.8	28.7	32.3	28.7	17.9	10.8	10.8
80°	132.6	71.7	32.3	28.7	21.5	17.9	17.9	14.3	10.8	3.6	3.6
82.5°	50.2	43.0	21.5	14.3	10.8	10.8	7.2	7.2	3.6	0.0	0.0
85°	21.5	10.8	10.8	7.2	7.2	3.6	3.6	3.6	0.0	0.0	0.0
87.5°	3.6	3.6	3.6	3.6	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

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2193.5	2193.5	2193.5	2193.5	2193.5	2193.5	2193.5	2193.5	2193.5	2193.5	2193.5
2.5°	2057.3	2064.4	2071.6	2100.3	2107.4	2128.9	2146.9	2168.4	2171.9	2200.6	2200.6
5°	1774.1	1770.5	1831.5	1921.1	1978.4	2057.3	2118.2	2182.7	2218.5	2265.1	2286.6
7.5°	1175.6	1265.2	1401.4	1559.1	1763.4	1953.3	2096.7	2222.1	2308.1	2361.9	2383.4
10°	584.2	634.4	777.7	1035.8	1383.5	1770.5	2075.2	2308.1	2447.9	2508.9	2548.3
12.5°	412.2	422.9	448.0	587.8	921.1	1469.5	2007.1	2401.3	2594.9	2709.6	2759.7
15°	369.2	376.3	387.1	426.5	569.9	1096.7	1885.2	2505.3	2824.2	2956.9	3021.4
17.5°	340.5	344.1	354.8	387.1	448.0	745.5	1688.1	2616.4	3100.2	3261.5	3383.4
20°	315.4	315.4	326.2	365.6	415.8	573.5	1405.0	2741.8	3451.5	3684.4	3806.3
22.5°	286.7	293.9	301.1	344.1	405.0	523.3	1139.7	2838.6	3842.1	4125.3	4268.6
25°	265.2	272.4	279.6	322.6	394.2	523.3	985.6	2899.5	4279.4	4616.3	4813.4
27.5°	247.3	254.5	265.2	308.2	383.5	544.8	924.7	2917.4	4756.1	5193.3	5458.5
30°	233.0	240.1	250.9	297.5	390.7	569.9	946.2	2892.3	5239.9	5788.3	6103.7
32.5°	218.6	225.8	236.5	286.7	390.7	602.1	1017.9	2842.2	5709.4	6383.2	6770.3
35°	207.9	211.5	215.0	258.1	354.8	598.5	1107.5	2792.0	6182.5	6971.0	7422.6
37.5°	186.4	190.0	197.1	222.2	283.1	544.8	1125.4	2731.1	6555.3	7465.6	7963.8
40°	164.9	172.0	179.2	204.3	236.5	440.8	1046.5	2602.0	6752.4	7845.5	8451.2
42.5°	150.5	154.1	161.3	186.4	218.6	351.2	878.1	2376.2	6928.0	8103.6	8806.1
45°	139.8	143.4	150.5	168.5	204.3	304.6	691.7	2100.3	6942.4	8186.0	8978.1
47.5°	129.0	132.6	136.2	154.1	197.1	272.4	530.4	1849.4	6938.8	8293.5	9125.1
50°	121.9	125.4	132.6	146.9	186.4	243.7	437.3	1645.1	7089.3	8526.5	9422.5
52.5°	118.3	118.3	129.0	143.4	175.6	222.2	365.6	1462.3	7168.1	8755.9	9637.6
55°	111.1	114.7	121.9	136.2	164.9	211.5	311.8	1232.9	7204.0	8870.6	9677.0
57.5°	103.9	107.5	118.3	129.0	157.7	200.7	268.8	921.1	6691.5	8272.0	9017.5
60°	*93.2*	*100.4*	*114.7*	*125.4*	*146.9*	*182.8*	*236.5*	*623.6*	*5644.9*	*7189.7*	*7813.3*
62.5°	75.3	89.6	103.9	111.1	132.6	154.1	200.7	415.8	4508.8	5949.6	6659.2
65°	57.3	75.3	86.0	96.8	111.1	129.0	168.5	283.1	3007.0	4003.4	4802.7
67.5°	50.2	64.5	71.7	78.8	93.2	111.1	136.2	197.1	1824.3	2404.9	3193.4
70°	39.4	53.8	60.9	57.3	71.7	86.0	96.8	132.6	931.9	1304.6	1817.1
72.5°	28.7	43.0	46.6	46.6	43.0	60.9	71.7	93.2	405.0	634.4	824.3
75°	21.5	28.7	32.3	28.7	25.1	39.4	50.2	60.9	265.2	379.9	480.3
77.5°	10.8	10.8	17.9	17.9	10.8	21.5	25.1	35.8	150.5	222.2	276.0
80°	3.6	0.0	0.0	3.6	0.0	7.2	10.8	17.9	78.8	118.3	172.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	39.4	35.8	89.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	21.5
87.5°	0.0	0.0	0.0	0.0	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: P1501814
CATALOG NUMBER: GSS-SB3B-735-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	2193.5	2193.5	2193.5	2193.5	2193.5	2193.5	2193.5	2193.5	2193.5	2193.5
2.5°	2218.5	2218.5	2232.9	2254.4	2265.1	2272.3	2275.9	2283.1	2311.7	2304.6
5°	2311.7	2318.9	2329.6	2351.2	2376.2	2369.1	2369.1	2369.1	2387.0	2372.7
7.5°	2433.6	2455.1	2458.7	2483.8	2465.8	2430.0	2408.5	2376.2	2372.7	2372.7
10°	2630.7	2623.5	2623.5	2591.3	2526.8	2422.8	2329.6	2265.1	2229.3	2232.9
12.5°	2842.2	2813.5	2817.1	2698.8	2516.0	2286.6	2096.7	1956.9	1946.2	1935.4
15°	3103.8	3028.5	3014.2	2741.8	2354.7	2003.5	1817.1	1706.0	1670.2	1659.4
17.5°	3476.6	3286.6	3218.5	2666.6	2143.3	1827.9	1688.1	1637.9	1634.3	1630.8
20°	3870.8	3494.5	3365.4	2555.4	2071.6	1831.5	1727.5	1713.2	1706.0	1709.6
22.5°	4329.6	3627.1	3462.2	2573.4	2136.1	1949.7	1867.3	1856.6	1849.4	1856.6
25°	4802.7	3781.2	3576.9	2716.7	2329.6	2168.4	2071.6	2050.1	2071.6	2103.9
27.5°	5279.3	3989.1	3802.7	2999.9	2641.5	2465.8	2372.7	2451.5	2483.8	2487.3
30°	5702.3	4279.4	4107.3	3397.7	2996.3	2820.7	2838.6	2938.9	2978.4	3017.8
32.5°	6089.3	4666.5	4533.9	3849.3	3455.0	3351.1	3340.4	3415.6	3458.6	3433.5
35°	6480.0	5171.8	5042.8	4340.3	4017.7	3931.7	3842.1	3989.1	3974.7	3935.3
37.5°	6849.2	5680.8	5562.5	4867.2	4533.9	4383.3	4369.0	4501.6	4619.9	4612.7
40°	7114.4	6092.9	5949.6	5390.4	5075.0	4946.0	5021.3	5250.7	5222.0	5182.6
42.5°	7358.1	6444.2	6315.1	5849.2	5519.5	5576.8	5644.9	5799.0	5781.1	5741.7
45°	7472.8	6745.2	6634.1	6196.9	6035.6	6218.4	6214.8	6272.1	6175.4	6161.0
47.5°	7634.1	6960.3	6845.6	6508.7	6652.0	6727.3	6515.8	6454.9	6365.3	6293.6
50°	7931.6	7293.6	7178.9	6981.8	7103.6	6870.7	6612.6	6480.0	6297.2	6171.8
52.5°	8279.2	7798.9	7698.6	7619.7	7279.3	6799.0	6469.3	6229.1	6006.9	5899.4
55°	8716.5	8544.4	8472.7	8039.1	7121.6	6505.1	6118.0	5670.0	5365.4	5265.0
57.5°	8859.8	9637.6	9612.5	8107.2	6680.7	5971.1	5272.2	4666.5	4351.1	4286.6
60°	8436.9	10494.2	10404.6	7992.5	5881.5	4845.7	4028.5	3408.5	2895.9	2820.7
62.5°	7895.7	9838.3	9806.0	7415.4	4480.1	3473.0	3010.6	2430.0	2211.4	2154.0
65°	6763.1	8049.8	8064.2	5949.6	2835.0	2494.5	2473.0	1931.8	1663.0	1620.0
67.5°	5207.7	6175.4	6075.0	3741.8	1652.3	1996.3	1974.8	1412.1	1021.5	992.8
70°	3042.9	4598.4	4437.1	1946.2	1093.1	1666.6	1519.6	992.8	695.3	663.1
72.5°	1344.0	2530.4	2716.7	856.6	770.6	1326.1	1096.7	609.3	390.7	383.5
75°	745.5	1254.4	1311.8	372.7	541.2	942.6	663.1	340.5	222.2	218.6
77.5°	448.0	555.5	541.2	240.1	405.0	602.1	401.4	193.5	139.8	132.6
80°	250.9	254.5	215.0	175.6	240.1	336.9	225.8	121.9	64.5	64.5
82.5°	154.1	139.8	111.1	53.8	64.5	204.3	82.4	68.1	21.5	21.5
85°	64.5	43.0	28.7	10.8	25.1	53.8	28.7	32.3	10.8	10.8
87.5°	0.0	0.0	0.0	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

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: SP1-2407-184-5

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-735-U-5WQ

Data in this report applies to families of products including GSS-SB1A-735-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

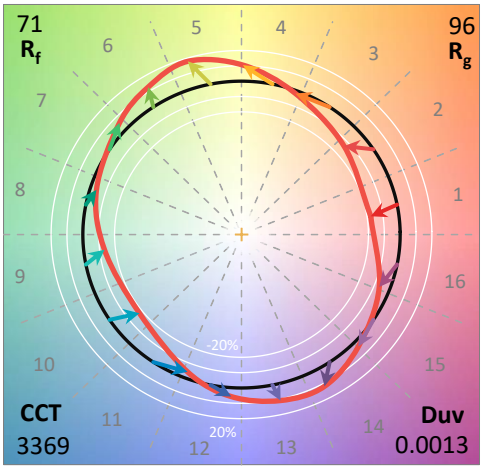
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-5
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-735-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K):	3369
CIE u':	0.2386
CIE v':	0.5156
Duv:	0.0013
CIE x:	0.4143
CIE y:	0.3980
CIE z:	0.1877
Peak Wavelength (nm):	590
Dominant Wavelength (nm):	580
Purity:	43.80166
Rf:	71.4
Rg:	96

CRI (Ra):	70.1
R1:	66.6
R2:	77.6
R3:	88.5
R4:	69.5
R5:	66.4
R6:	69.6
R7:	77.5
R8:	44.9
R9:	-40.2
R10:	49.1
R11:	66.3
R12:	45.7
R13:	68.0
R14:	93.4
R15:	57.6



Test Conditions

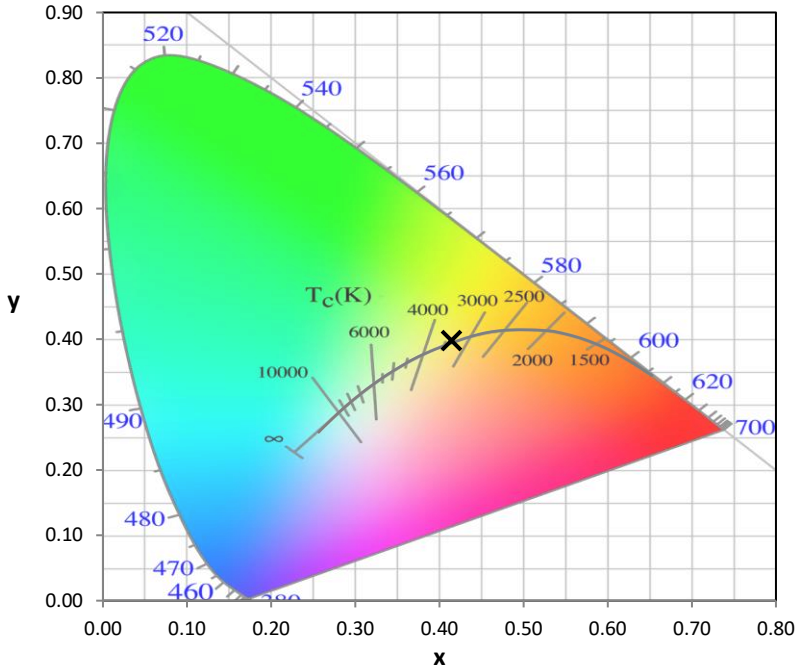
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-5

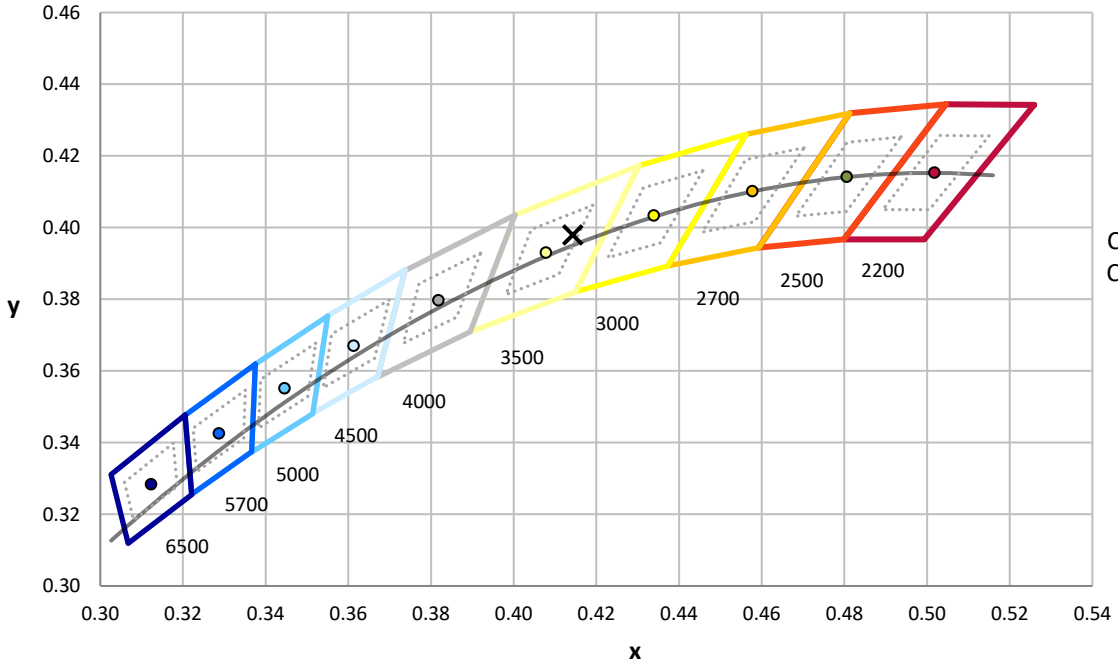
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-5

CIE 1931 Chromaticity Diagram



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

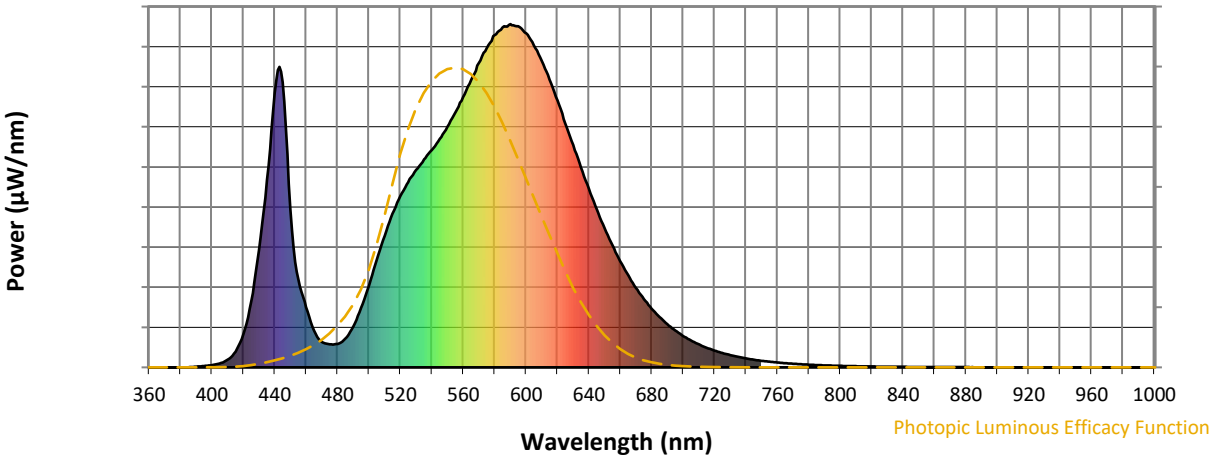


CCT = 3369K
CIE x = 0.4143
CIE y = 0.3980
Duv = 0.0013

Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-5

Photopic Flux vs. Wavelength

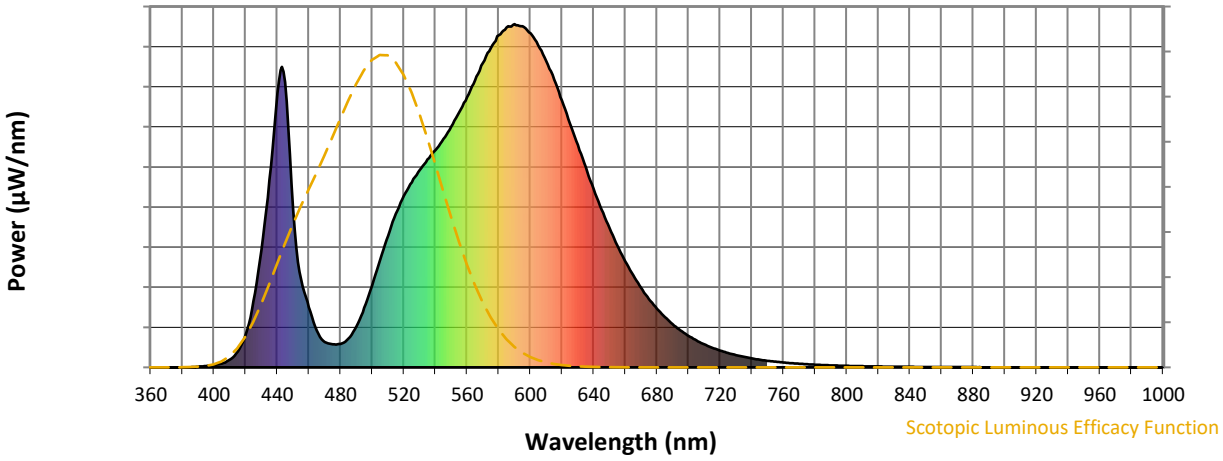


Photopic Lumens: NR

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

Scotopic Flux vs. Wavelength

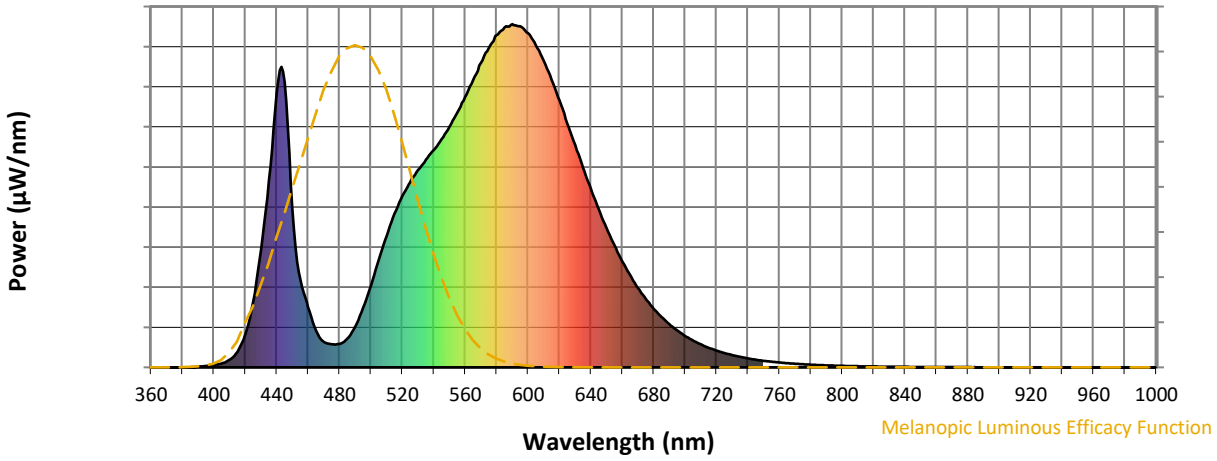


Scotopic Lumens: NR **S/P: 1.29**

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.36**

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

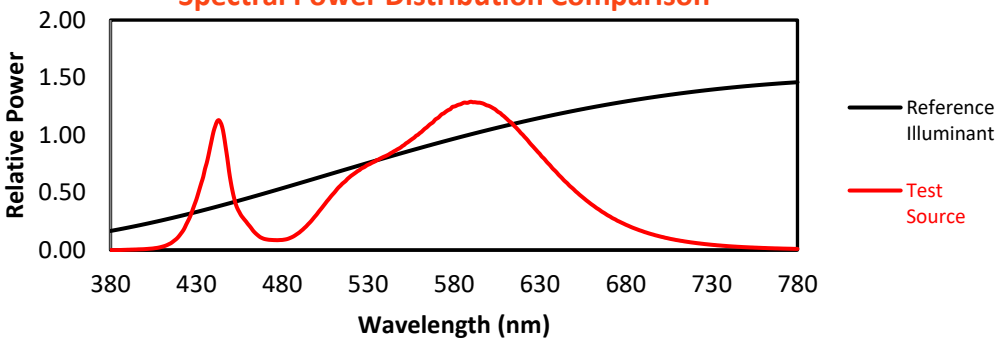
REPORT NUMBER: SP1-2407-184-5

TM-30-18

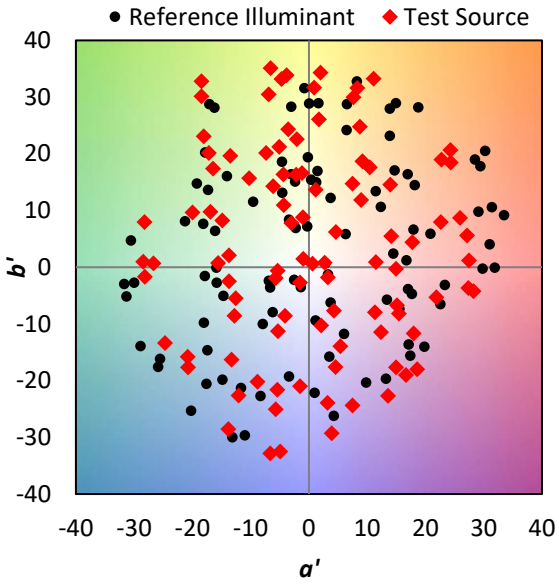
Summary

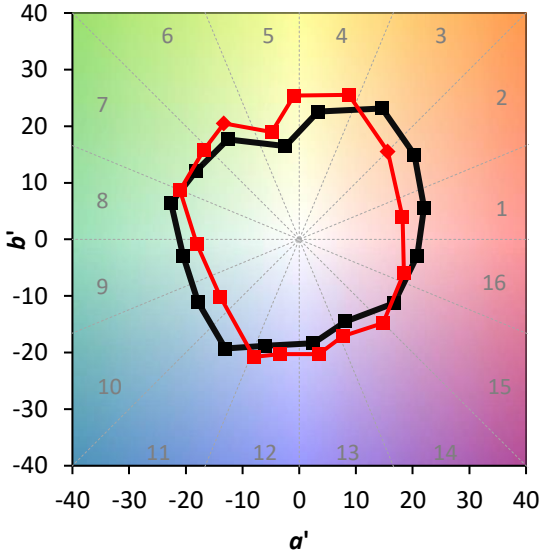
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R_g = 96
CIE R_a = 70.1
R_9 = -40.2

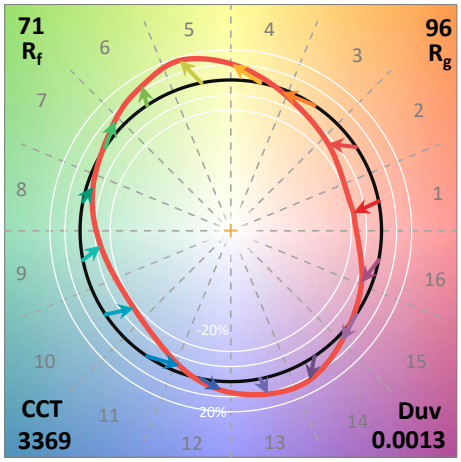
Spectral Power Distribution Comparison

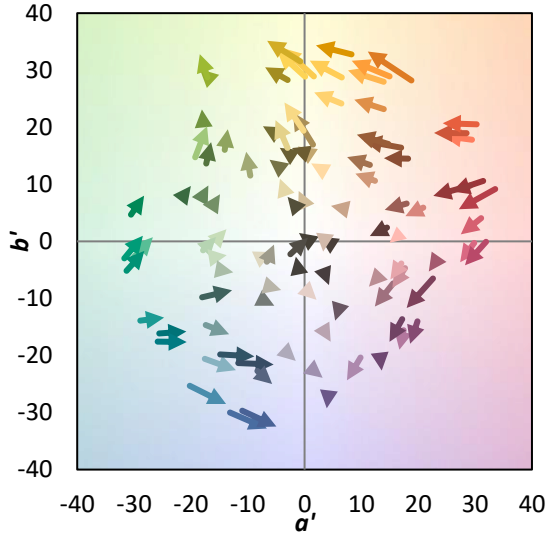


Color Vector Graphics







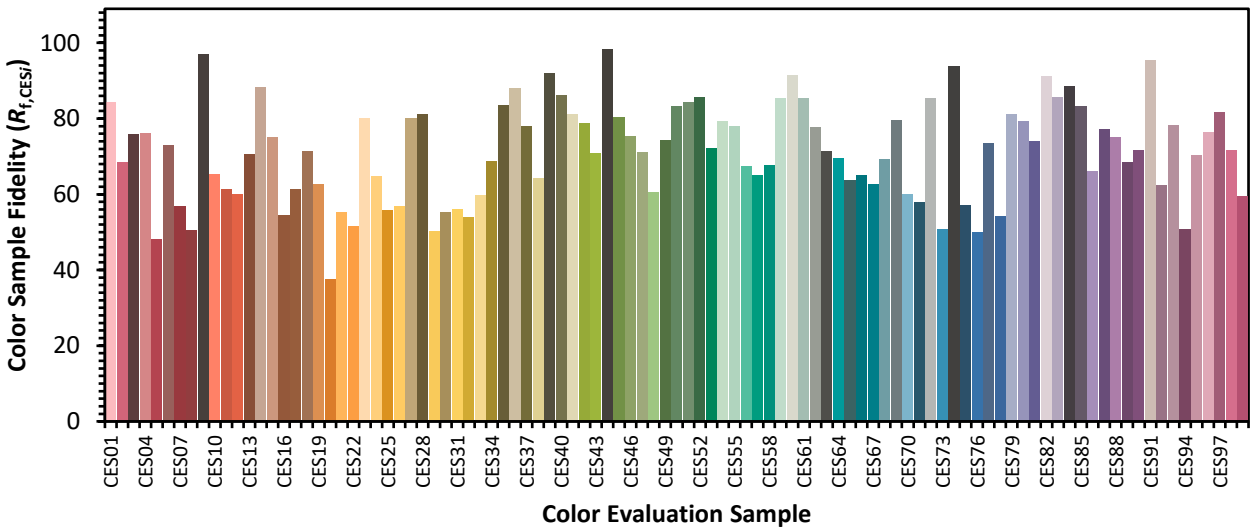


REPORT NUMBER: SP1-2407-184-5

TM-30-18

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

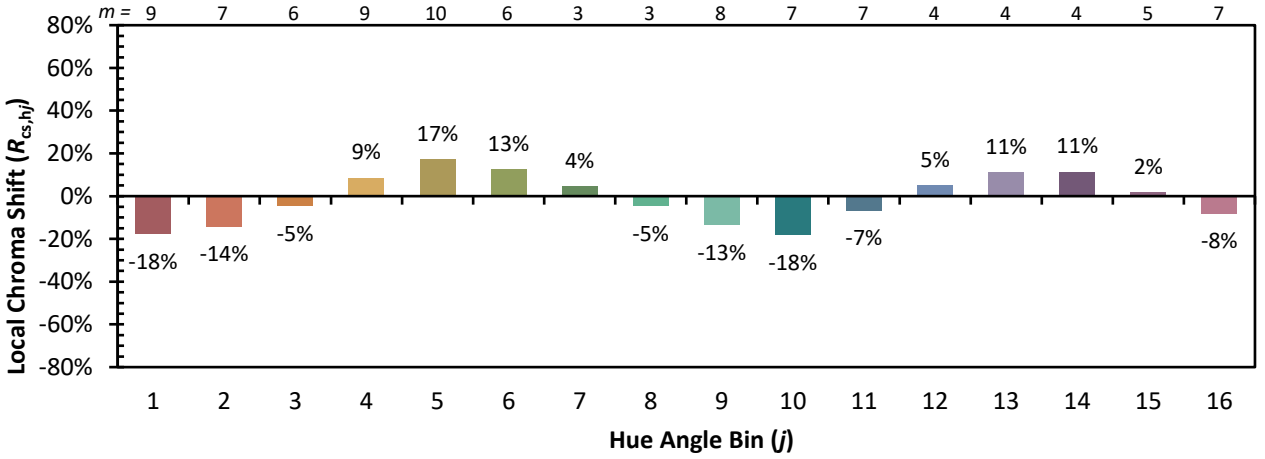
CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82 = 91
CES08 = 39	CES33 = 60	CES58 = 68	CES83 = 86
CES09 = 29	CES34 = 69	CES59 = 85	CES84 = 89
CES10 = 75	CES35 = 83	CES60 = 91	CES85 = 83
CES11 = 58	CES36 = 88	CES61 = 85	CES86 = 66
CES12 = 64	CES37 = 78	CES62 = 78	CES87 = 77
CES13 = 43	CES38 = 64	CES63 = 71	CES88 = 75
CES14 = 74	CES39 = 92	CES64 = 70	CES89 = 68
CES15 = 71	CES40 = 86	CES65 = 64	CES90 = 72
CES16 = 47	CES41 = 81	CES66 = 65	CES91 = 95
CES17 = 50	CES42 = 79	CES67 = 63	CES92 = 62
CES18 = 56	CES43 = 71	CES68 = 69	CES93 = 78
CES19 = 72	CES44 = 98	CES69 = 80	CES94 = 51
CES20 = 65	CES45 = 80	CES70 = 60	CES95 = 70
CES21 = 87	CES46 = 75	CES71 = 58	CES96 = 76
CES22 = 79	CES47 = 71	CES72 = 85	CES97 = 82
CES23 = 92	CES48 = 61	CES73 = 51	CES98 = 72
CES24 = 91	CES49 = 74	CES74 = 94	CES99 = 60
CES25 = 72	CES50 = 83	CES75 = 57	

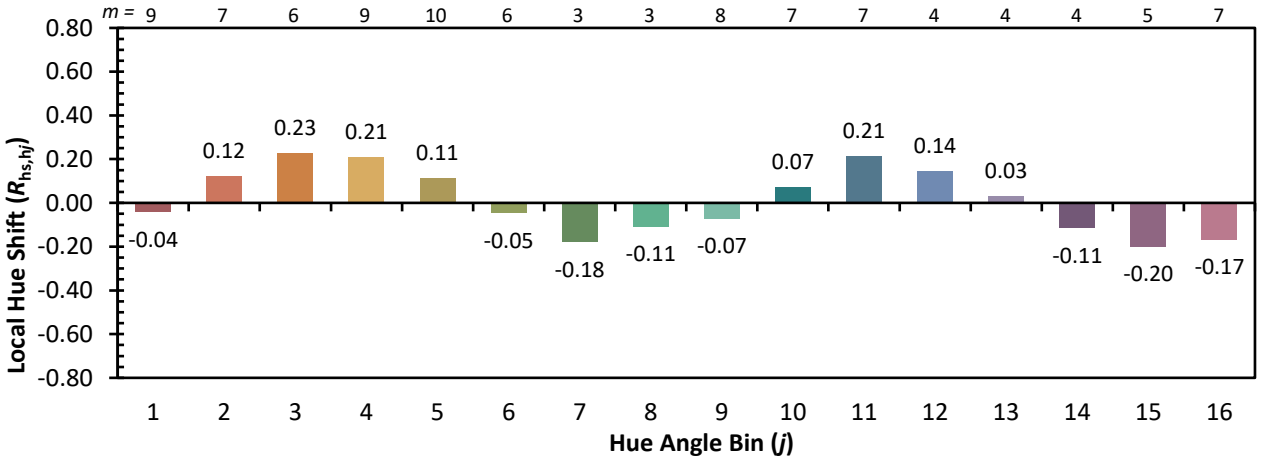


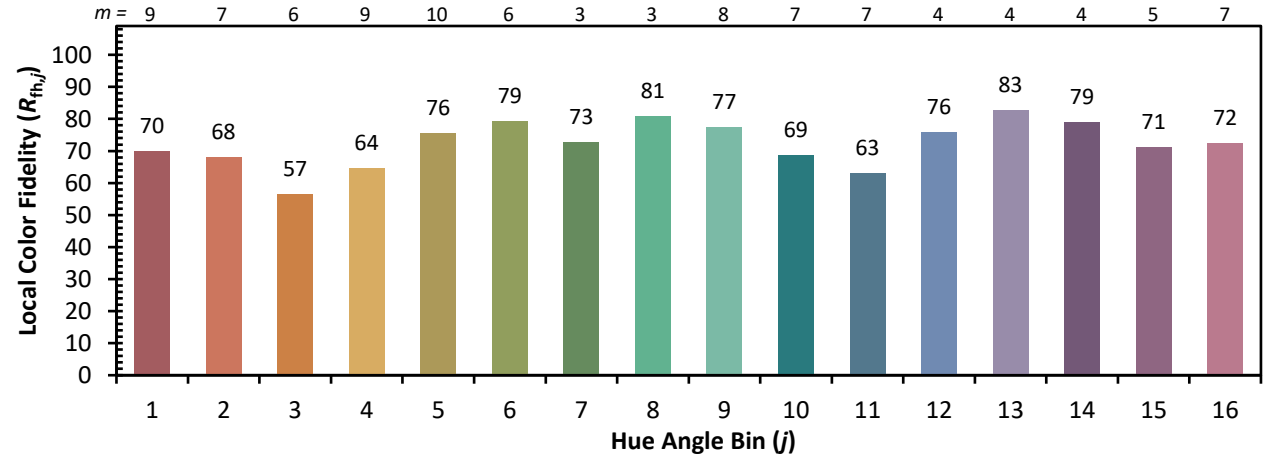
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Color Rendition by Hue-Angle Bin



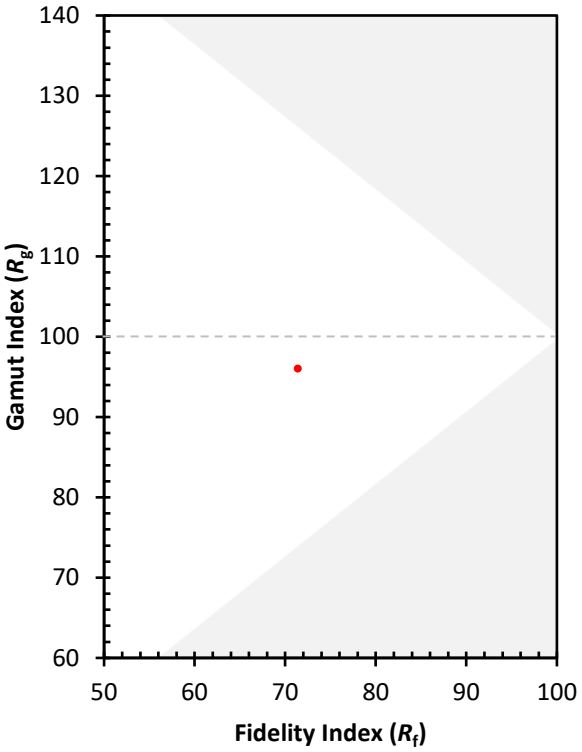


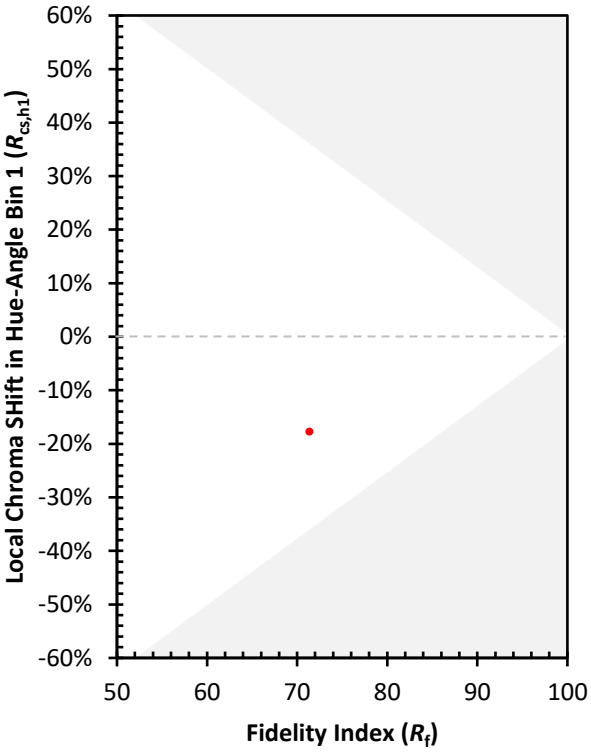


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Measure Comparisons





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