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

Scaled data based on original data using

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P1364616

Luminaire Tested: **GSS-SB5B-735-U-SLR-HSS**

Issue Date: 02/18/2026

Report Generated By 670245763

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1364616
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	02/18/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB5B-735-U-SLR-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 5SQUARE 184W 70CRI 3500K FIXTURE w/ 90° Spill Light Eliminator RIGHT OPTIC AND HOUSE SIDE SHIELD
Light Source:	(130) 3500K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	20710.7 lumens
Efficiency:	N/A
Efficacy:	112.6 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B2 - U0 - G3

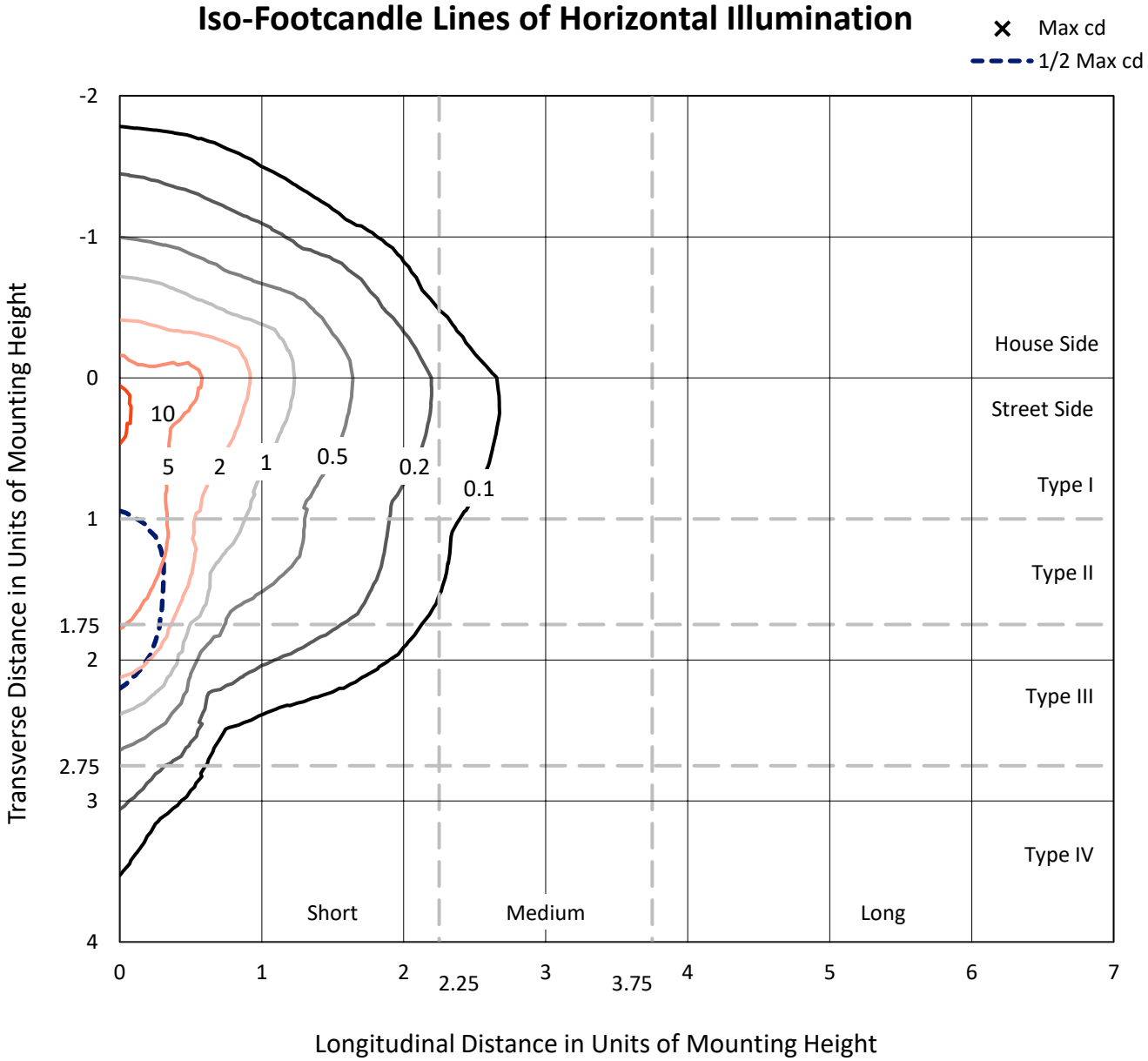
Input Watts (W):	184
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	11.1%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



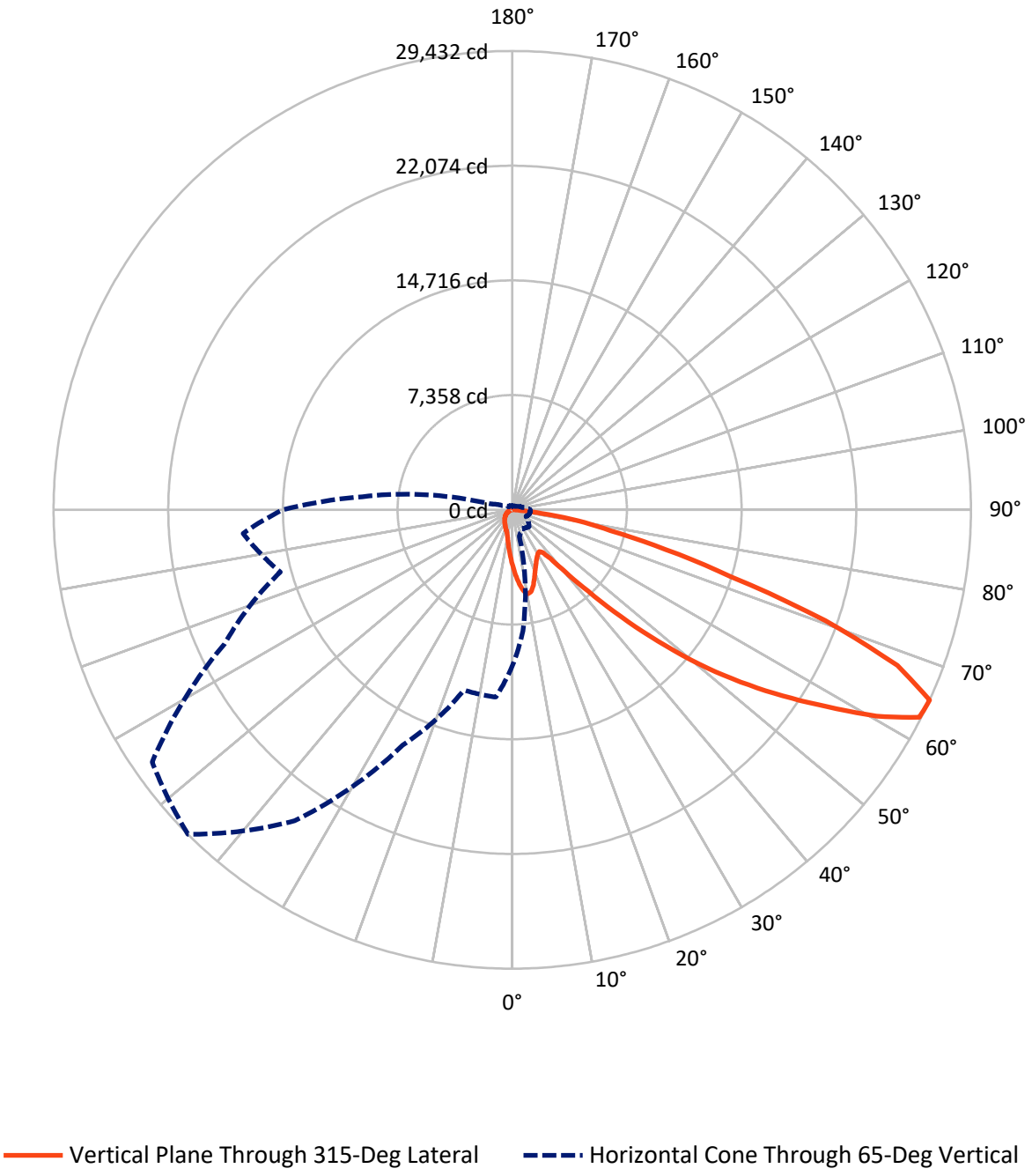
Based on 20 foot mounting height. Maximum calculated value = 11.3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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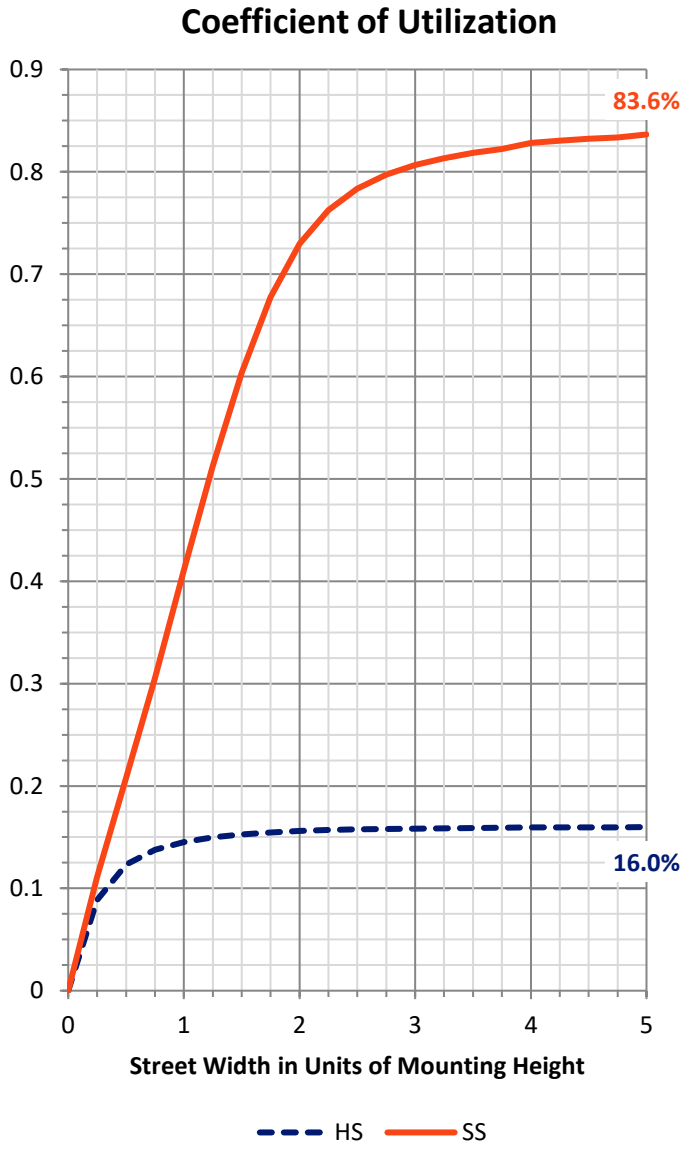
REPORT NUMBER: P1364616
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3348.0	0.0	3348.0
	% Fixture	16.2	0.0	16.2
Street Side	Lumens	17362.7	0.0	17362.7
	% Fixture	83.8	0.0	83.8
Total	Lumens	20710.7	0.0	20710.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.1	1.7
10°-20°	951.6	4.6
20°-30°	1363.0	6.6
30°-40°	1709.6	8.3
40°-50°	2808.4	13.6
50°-60°	5068.0	24.5
60°-70°	5624.4	27.2
70°-80°	2541.1	12.3
80°-90°	300.5	1.5
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°	20710.7	100.0
0°-180°	20710.7	100.0



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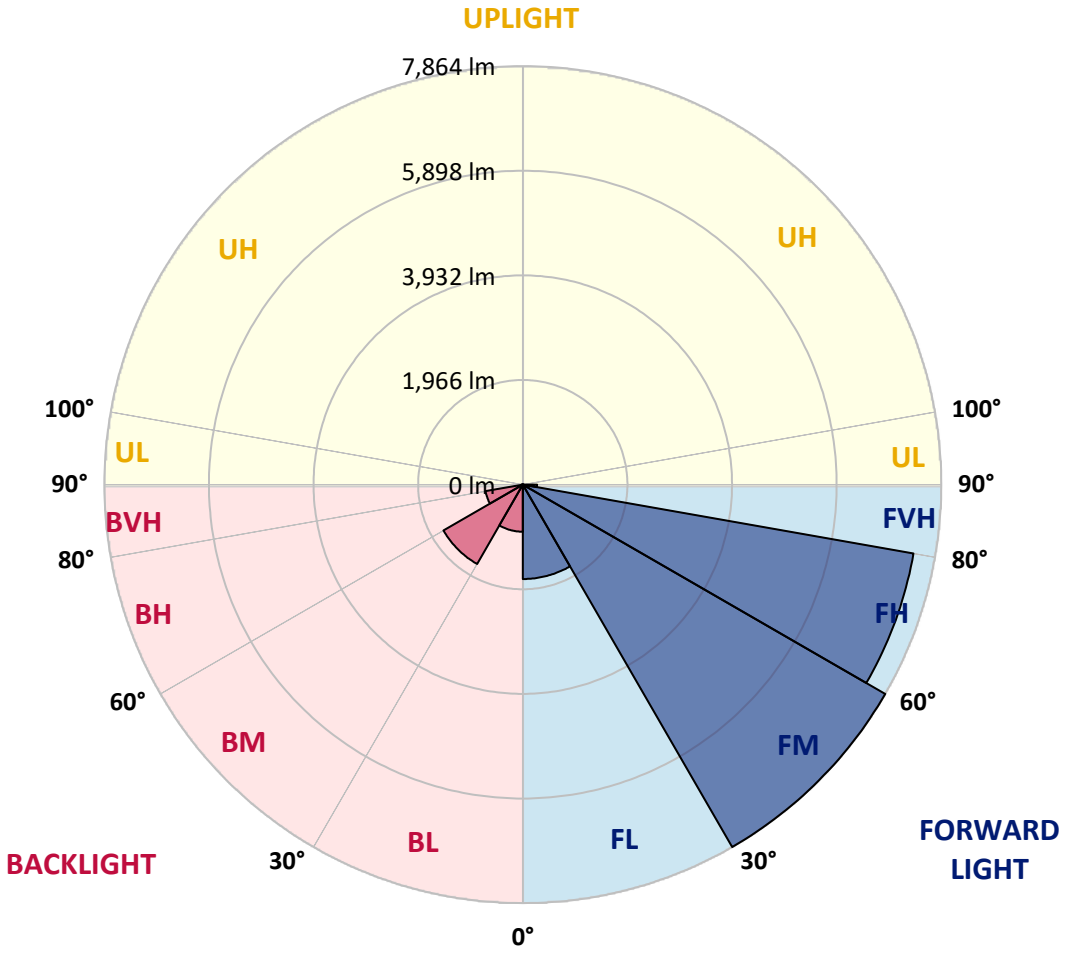
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1774.0	8.6			
FM	(30°-60°)	7864.4	38.0			
FH	(60°-80°)	7454.5	36.0			G3/7500
FVH	(80°-90°)	269.7	1.3			G3/500
BL	(0°-30°)	884.7	4.3	B2/1000		
BM	(30°-60°)	1721.5	8.3	B2/2500		
BH	(60°-80°)	711.0	3.4	B2/1000		G2/1000
BVH	(80°-90°)	30.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3580.5	3580.5	3580.5	3580.5	3580.5	3580.5	3580.5	3580.5	3580.5	3580.5	3580.5
2.5°	4038.3	4034.5	4019.3	3923.9	3828.5	3745.8	3663.1	3580.5	3466.0	3376.9	3300.6
5°	4419.9	4399.6	4318.2	4171.9	4012.9	3873.0	3714.0	3561.4	3389.7	3249.8	3103.5
7.5°	4680.7	4660.3	4578.9	4337.2	4095.6	3923.9	3752.2	3593.2	3402.4	3218.0	3008.1
10°	4801.5	4778.6	4687.0	4426.3	4146.5	3936.6	3764.9	3618.6	3459.6	3275.2	3014.4
12.5°	4884.2	4856.2	4744.3	4445.4	4159.2	3949.3	3771.2	3631.3	3516.9	3408.7	3154.4
15°	4935.0	4909.6	4807.9	4496.2	4165.5	3930.2	3720.4	3586.8	3548.7	3567.7	3446.9
17.5°	5011.4	4987.2	4890.5	4559.8	4203.7	3898.4	3612.3	3466.0	3548.7	3720.4	3758.5
20°	5113.1	5087.7	4985.9	4642.5	4235.5	3803.0	3408.7	3268.8	3478.7	3764.9	3962.0
22.5°	5227.6	5207.2	5125.8	4737.9	4267.3	3663.1	3141.6	3078.0	3332.4	3637.7	3892.1
25°	5367.5	5348.4	5272.1	4871.5	4299.1	3472.3	2912.7	2925.4	3141.6	3383.3	3644.0
27.5°	5558.3	5540.5	5469.3	5036.8	4337.2	3275.2	2728.3	2791.9	2950.9	3116.2	3275.2
30°	5768.2	5754.2	5698.2	5233.9	4413.6	3090.8	2620.2	2658.3	2766.4	2900.0	2995.4
32.5°	6054.3	6031.4	5939.9	5418.4	4407.2	2950.9	2569.3	2531.1	2562.9	2671.0	2766.4
35°	6410.5	6392.7	6321.4	5609.2	4292.7	2823.7	2543.8	2410.3	2391.2	2454.8	2550.2
37.5°	6932.0	6916.7	6855.6	5920.8	4114.7	2664.7	2480.2	2283.1	2219.5	2264.0	2327.6
40°	7714.2	7674.8	7517.0	6276.9	3917.5	2505.7	2365.8	2130.5	2041.4	2073.2	2143.2
42.5°	8776.2	8701.2	8401.0	6753.9	3650.4	2353.1	2194.1	1977.8	1882.4	1901.5	1965.1
45°	10137.2	10024.0	9571.2	7408.9	3370.6	2232.2	2016.0	1818.8	1717.1	1736.2	1806.1
47.5°	11727.1	11571.9	10951.2	8095.8	3071.7	2162.3	1876.1	1659.9	1583.5	1628.1	1698.0
50°	13603.2	13446.7	12820.9	8534.6	2830.0	2117.7	1768.0	1513.6	1481.8	1539.0	1596.3
52.5°	15651.0	15428.4	14538.0	8254.8	2632.9	2079.6	1729.8	1411.8	1424.5	1469.1	1526.3
55°	17641.5	17146.7	15167.6	7326.3	2378.5	2035.1	1755.2	1335.5	1367.3	1424.5	1469.1
57.5°	18938.9	18079.1	14639.8	5901.7	2111.4	1984.2	1774.3	1297.4	1322.8	1386.4	1437.3
60°	17806.9	16942.0	13482.3	4419.9	1882.4	1876.1	1742.5	1284.6	1246.5	1335.5	1380.0
62.5°	14588.9	13876.6	11027.5	2823.7	1666.2	1672.6	1672.6	1278.3	1119.3	1233.8	1271.9
65°	*10022.7*	*9577.6*	*7796.9*	*1748.9*	*1361.0*	*1424.5*	*1519.9*	*1240.1*	*985.7*	*1119.3*	*1157.4*
67.5°	6588.5	6261.7	4954.1	1081.1	1049.3	1170.2	1316.4	1163.8	884.0	1004.8	1030.3
70°	3574.1	3326.1	2334.0	712.3	686.8	915.8	1036.6	985.7	794.9	896.7	922.1
72.5°	2359.4	2155.9	1341.9	502.4	502.4	718.6	725.0	807.7	712.3	794.9	820.4
75°	1774.3	1592.4	864.9	349.8	387.9	457.9	566.0	578.7	597.8	674.1	705.9
77.5°	814.0	714.8	318.0	209.9	286.2	318.0	432.5	368.9	445.2	502.4	515.1
80°	470.6	412.1	178.1	139.9	184.4	203.5	356.1	216.2	267.1	356.1	375.2
82.5°	197.1	175.5	89.0	95.4	114.5	120.8	197.1	152.6	171.7	235.3	228.9
85°	57.2	57.2	57.2	63.6	70.0	70.0	114.5	108.1	101.8	108.1	108.1
87.5°	38.2	38.2	38.2	38.2	44.5	44.5	50.9	57.2	63.6	63.6	63.6
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°	3580.5	3580.5	3580.5	3580.5	3580.5	3580.5	3580.5	3580.5	3580.5	3580.5	3580.5
2.5°	3268.8	3224.3	3167.1	3084.4	3071.7	3027.2	2995.4	3027.2	3059.0	3116.2	3122.6
5°	3027.2	2957.2	2823.7	2721.9	2607.4	2550.2	2543.8	2531.1	2569.3	2652.0	2702.8
7.5°	2893.6	2779.1	2537.5	2359.4	2200.4	2143.2	2098.7	2136.8	2130.5	2238.6	2283.1
10°	2861.8	2683.8	2346.7	2079.6	1882.4	1806.1	1761.6	1755.2	1768.0	1831.6	1876.1
12.5°	2976.3	2747.3	2270.4	1876.1	1647.1	1564.5	1513.6	1469.1	1469.1	1481.8	1539.0
15°	3230.7	2957.2	2314.9	1780.7	1532.7	1424.5	1341.9	1284.6	1240.1	1246.5	1252.8
17.5°	3586.8	3262.5	2429.4	1748.9	1462.7	1348.2	1246.5	1189.2	1138.4	1125.6	1125.6
20°	3866.6	3555.0	2518.4	1723.5	1405.5	1259.2	1170.2	1119.3	1074.8	1055.7	1055.7
22.5°	3898.4	3675.8	2594.7	1691.7	1335.5	1170.2	1087.5	1043.0	1011.2	1004.8	1004.8
25°	3688.6	3580.5	2569.3	1653.5	1265.6	1087.5	1023.9	985.7	953.9	947.6	953.9
27.5°	3338.8	3281.6	2480.2	1602.6	1208.3	1023.9	966.7	934.9	903.1	896.7	903.1
30°	3027.2	2963.6	2327.6	1519.9	1163.8	973.0	909.4	877.6	845.8	845.8	852.2
32.5°	2772.8	2709.2	2175.0	1424.5	1106.6	915.8	858.5	826.7	794.9	794.9	807.7
35°	2543.8	2493.0	2054.2	1329.2	1049.3	864.9	801.3	775.9	750.4	744.1	756.8
37.5°	2346.7	2321.3	1946.0	1227.4	992.1	814.0	756.8	731.4	699.6	693.2	705.9
40°	2155.9	2143.2	1825.2	1138.4	922.1	763.2	705.9	680.5	642.3	642.3	655.0
42.5°	1977.8	1971.5	1717.1	1081.1	858.5	712.3	648.7	623.2	591.4	591.4	604.2
45°	1837.9	1831.6	1615.3	1049.3	794.9	655.0	597.8	566.0	540.6	546.9	559.6
47.5°	1710.7	1698.0	1507.2	1055.7	763.2	616.9	540.6	508.8	489.7	502.4	521.5
50°	1609.0	1596.3	1430.9	1062.1	712.3	566.0	496.0	464.3	451.5	470.6	489.7
52.5°	1545.4	1532.7	1354.6	1023.9	648.7	527.8	451.5	432.5	432.5	451.5	464.3
55°	1481.8	1469.1	1227.4	941.2	578.7	489.7	419.7	407.0	407.0	426.1	438.8
57.5°	1443.6	1418.2	1093.9	845.8	521.5	445.2	387.9	387.9	387.9	394.3	400.7
60°	1386.4	1322.8	953.9	725.0	477.0	400.7	362.5	356.1	356.1	349.8	356.1
62.5°	1265.6	1157.4	801.3	616.9	426.1	362.5	330.7	324.3	305.3	286.2	292.5
65°	*1144.7*	*979.4*	*636.0*	*515.1*	*368.9*	*311.6*	*292.5*	*286.2*	*254.4*	*228.9*	*235.3*
67.5°	992.1	782.2	477.0	432.5	318.0	267.1	248.0	248.0	228.9	209.9	209.9
70°	884.0	610.5	400.7	324.3	254.4	209.9	209.9	222.6	203.5	178.1	178.1
72.5°	782.2	496.0	324.3	260.7	197.1	165.3	178.1	184.4	165.3	146.3	146.3
75°	667.8	387.9	254.4	203.5	146.3	127.2	133.6	146.3	133.6	114.5	120.8
77.5°	483.3	267.1	171.7	133.6	108.1	95.4	101.8	101.8	95.4	89.0	89.0
80°	337.1	178.1	114.5	89.0	76.3	70.0	70.0	63.6	63.6	70.0	70.0
82.5°	203.5	127.2	82.7	70.0	57.2	44.5	44.5	50.9	50.9	57.2	57.2
85°	89.0	76.3	57.2	50.9	38.2	31.8	38.2	38.2	44.5	50.9	50.9
87.5°	57.2	57.2	44.5	38.2	31.8	25.4	25.4	31.8	31.8	38.2	44.5
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°	3580.5	3580.5	3580.5	3580.5	3580.5	3580.5	3580.5	3580.5	3580.5	3580.5	3580.5
2.5°	3148.0	3211.6	3287.9	3396.0	3491.4	3605.9	3720.4	3828.5	3930.2	3943.0	3987.5
5°	2741.0	2861.8	3014.4	3192.5	3408.7	3637.7	3860.3	4095.6	4286.4	4356.3	4458.1
7.5°	2321.3	2473.9	2696.5	2969.9	3275.2	3618.6	3962.0	4292.7	4578.9	4712.5	4846.0
10°	1920.6	2066.9	2340.3	2671.0	3065.3	3529.6	3987.5	4432.6	4782.4	4935.0	5062.2
12.5°	1558.1	1704.4	1927.0	2308.5	2785.5	3345.1	3949.3	4483.5	4871.5	5030.4	5151.3
15°	1271.9	1392.8	1602.6	1958.8	2461.2	3090.8	3815.8	4445.4	4890.5	5043.2	5132.2
17.5°	1119.3	1151.1	1284.6	1609.0	2155.9	2861.8	3644.0	4394.5	4903.3	5043.2	5094.0
20°	1055.7	1055.7	1081.1	1252.8	1787.0	2620.2	3516.9	4362.7	4922.3	5062.2	5055.9
22.5°	998.5	1011.2	1011.2	1049.3	1361.0	2283.1	3383.3	4350.0	4979.6	5087.7	4998.6
25°	947.6	966.7	966.7	979.4	1068.4	1882.4	3218.0	4375.4	5081.3	5138.6	4960.5
27.5°	903.1	922.1	922.1	934.9	953.9	1399.1	2944.5	4381.8	5195.8	5202.2	4909.6
30°	858.5	877.6	890.3	890.3	903.1	1030.3	2601.1	4343.6	5323.0	5284.8	4903.3
32.5°	807.7	833.1	839.5	852.2	858.5	896.7	2155.9	4280.0	5482.0	5399.3	4909.6
35°	763.2	794.9	801.3	801.3	814.0	852.2	1723.5	4210.1	5698.2	5551.9	4935.0
37.5°	718.6	744.1	750.4	756.8	769.5	807.7	1367.3	4108.3	5882.6	5742.7	5062.2
40°	667.8	699.6	705.9	712.3	725.0	763.2	1176.5	3981.1	6162.5	6060.7	5253.0
42.5°	616.9	648.7	661.4	667.8	674.1	725.0	1074.8	3892.1	6614.0	6505.9	5641.0
45°	572.4	604.2	616.9	616.9	629.6	699.6	985.7	4089.2	7237.2	7186.3	6162.5
47.5°	534.2	566.0	572.4	572.4	578.7	661.4	909.4	4617.1	8191.2	8057.6	6976.5
50°	502.4	527.8	540.6	527.8	534.2	629.6	953.9	5488.3	9412.2	9456.7	8172.1
52.5°	477.0	502.4	508.8	483.3	483.3	585.1	1011.2	6200.6	10970.3	11377.3	10067.2
55°	445.2	470.6	477.0	445.2	445.2	515.1	877.6	6245.1	12744.6	14054.7	12534.8
57.5°	413.4	438.8	438.8	413.4	407.0	445.2	712.3	5539.2	14118.3	17088.2	15911.7
60°	375.2	400.7	394.3	381.6	368.9	407.0	655.0	4222.8	13933.9	19066.1	19784.7
62.5°	305.3	343.4	356.1	349.8	324.3	368.9	610.5	2753.7	12057.8	17349.0	19663.9
65°	*254.4*	*286.2*	*305.3*	*305.3*	*286.2*	*407.0*	*534.2*	*1450.0*	*9653.9*	*14722.5*	*17336.3*
67.5°	222.6	254.4	267.1	260.7	248.0	362.5	337.1	699.6	7402.6	12687.4	15517.4
70°	197.1	222.6	235.3	216.2	203.5	292.5	241.7	413.4	4954.1	10588.7	13819.4
72.5°	159.0	184.4	197.1	178.1	159.0	216.2	184.4	273.5	3224.3	9024.3	12280.4
75°	127.2	152.6	159.0	146.3	127.2	159.0	146.3	190.8	2105.0	7466.2	10442.5
77.5°	95.4	108.1	120.8	114.5	95.4	114.5	101.8	133.6	1202.0	5240.3	7326.3
80°	76.3	82.7	82.7	82.7	76.3	70.0	70.0	89.0	540.6	2582.0	3822.1
82.5°	63.6	70.0	70.0	63.6	57.2	50.9	44.5	50.9	159.0	1157.4	1761.6
85°	57.2	63.6	50.9	44.5	38.2	31.8	19.1	19.1	44.5	184.4	343.4
87.5°	44.5	38.2	31.8	25.4	12.7	6.4	6.4	0.0	6.4	6.4	6.4
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: P1364616
CATALOG NUMBER: GSS-SB5B-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3580.5	3580.5	3580.5	*3580.5*	3580.5	3580.5	3580.5	3580.5	3580.5	3580.5
2.5°	4057.4	4121.0	4165.5	*4203.7*	4191.0	4159.2	4095.6	4051.1	4040.9	4038.3
5°	4591.6	4693.4	4782.4	*4769.7*	4782.4	4687.0	4591.6	4477.2	4431.4	4419.9
7.5°	5036.8	5164.0	5272.1	*5259.4*	5221.2	5113.1	4954.1	4782.4	4701.0	4680.7
10°	5278.5	5424.7	5513.8	*5482.0*	5418.4	5278.5	5119.5	4916.0	4824.4	4801.5
12.5°	5323.0	5418.4	5399.3	*5386.6*	5373.9	5303.9	5183.1	4998.6	4907.1	4884.2
15°	5208.5	5170.4	5062.2	*5036.8*	5132.2	5221.2	5195.8	5043.2	4956.7	4935.0
17.5°	5017.7	4820.6	4623.4	*4598.0*	4757.0	5005.0	5202.2	5113.1	5031.7	5011.4
20°	4807.9	4439.0	4222.8	*4178.3*	4375.4	4744.3	5132.2	5183.1	5127.1	5113.1
22.5°	4559.8	4127.4	3898.4	*3873.0*	4019.3	4451.7	5030.4	5259.4	5233.9	5227.6
25°	4343.6	3853.9	3637.7	*3599.5*	3790.3	4210.1	4928.7	5386.6	5371.3	5367.5
27.5°	4165.5	3656.8	3427.8	*3402.4*	3586.8	4006.5	4801.5	5494.7	5545.6	5558.3
30°	4025.6	3510.5	3281.6	*3249.8*	3453.3	3866.6	4712.5	5647.3	5744.0	5768.2
32.5°	3917.5	3427.8	3211.6	*3192.5*	3408.7	3809.4	4661.6	5806.3	6004.7	6054.3
35°	3879.4	3453.3	3307.0	*3351.5*	3516.9	3866.6	4699.7	6067.1	6341.8	6410.5
37.5°	3962.0	3733.1	3834.8	*3949.3*	4012.9	4140.1	4877.8	6486.8	6842.9	6932.0
40°	4229.1	4483.5	4960.5	*5183.1*	5157.6	4865.1	5284.8	7078.2	7587.0	7714.2
42.5°	4909.6	5736.4	6747.5	*7122.7*	6906.5	6022.5	5933.5	8051.3	8631.2	8776.2
45°	5920.8	7249.9	8909.8	*9755.6*	9011.6	7491.6	6957.4	9437.6	9997.3	10137.2
47.5°	6932.0	8941.6	11580.8	*12585.6*	11122.9	8948.0	8299.3	11097.5	11601.2	11727.1
50°	7962.2	10811.3	14245.5	*15587.4*	13228.0	10429.7	9723.8	13145.3	13511.6	13603.2
52.5°	9024.3	12483.9	17183.6	*18341.1*	15428.4	11574.5	11351.9	15377.5	15596.3	15651.0
55°	10207.2	14067.4	20128.1	*21063.0*	17431.7	12572.9	13259.8	17711.5	17655.5	17641.5
57.5°	11784.3	15733.6	22500.3	*23804.0*	19250.5	13921.2	15810.0	20306.2	19212.3	18938.9
60°	14538.0	18322.0	25451.1	*26869.3*	21686.2	15892.6	17686.0	20249.0	18295.3	17806.9
62.5°	17730.6	20815.0	28122.1	*29317.7*	24249.1	17851.4	16191.5	17005.6	15072.2	14588.9
65°	*15402.9*	*20376.2*	*28204.8*	*29432.2*	*24344.5*	*16655.8*	*11968.8*	*12057.8*	*10429.7*	*10022.7*
67.5°	13107.1	18061.3	25686.4	*26653.1*	21718.0	13768.5	7936.8	7866.8	6844.2	6588.5
70°	11669.9	15822.7	22137.8	*21304.7*	18258.4	11638.1	5272.1	4369.0	3733.1	3574.1
72.5°	10487.0	12553.8	17940.4	*14684.3*	15148.6	9469.4	3351.5	2976.3	2482.8	2359.4
75°	9494.9	10385.2	11192.9	*10149.9*	10760.4	7803.2	2842.7	2295.8	1878.6	1774.3
77.5°	7555.2	8083.0	6626.7	*6435.9*	7536.1	5551.9	1411.8	966.7	844.6	814.0
80°	4496.2	3822.1	3758.5	*4286.4*	5017.7	2880.9	864.9	534.2	483.3	470.6
82.5°	2721.9	1380.0	1500.9	*1895.2*	2671.0	1310.1	515.1	228.9	203.5	197.1
85°	457.9	375.2	578.7	*553.3*	521.5	279.8	139.9	63.6	58.5	57.2
87.5°	12.7	19.1	25.4	*31.8*	31.8	31.8	31.8	31.8	36.9	38.2
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

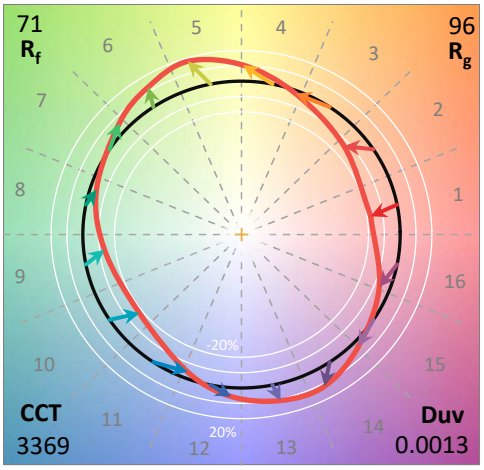
Test Information

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

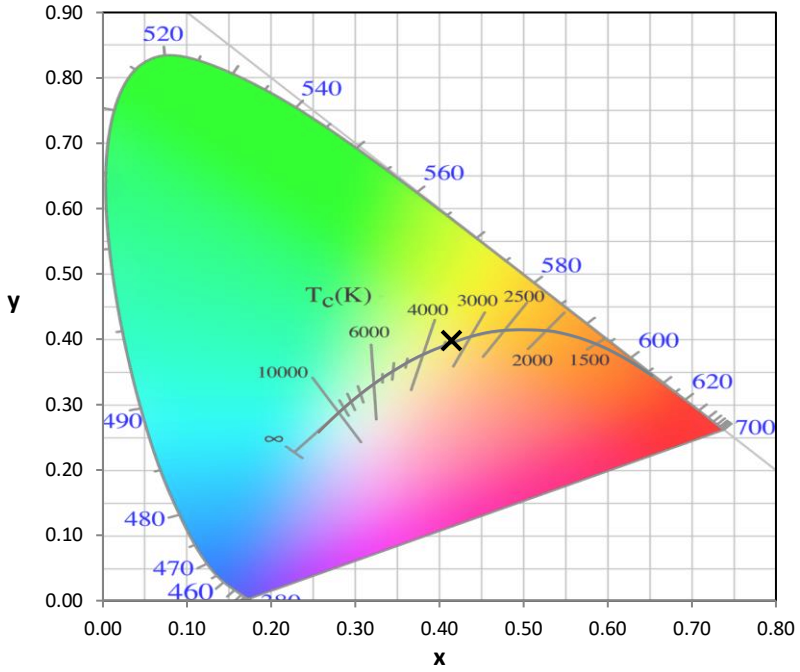
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-5

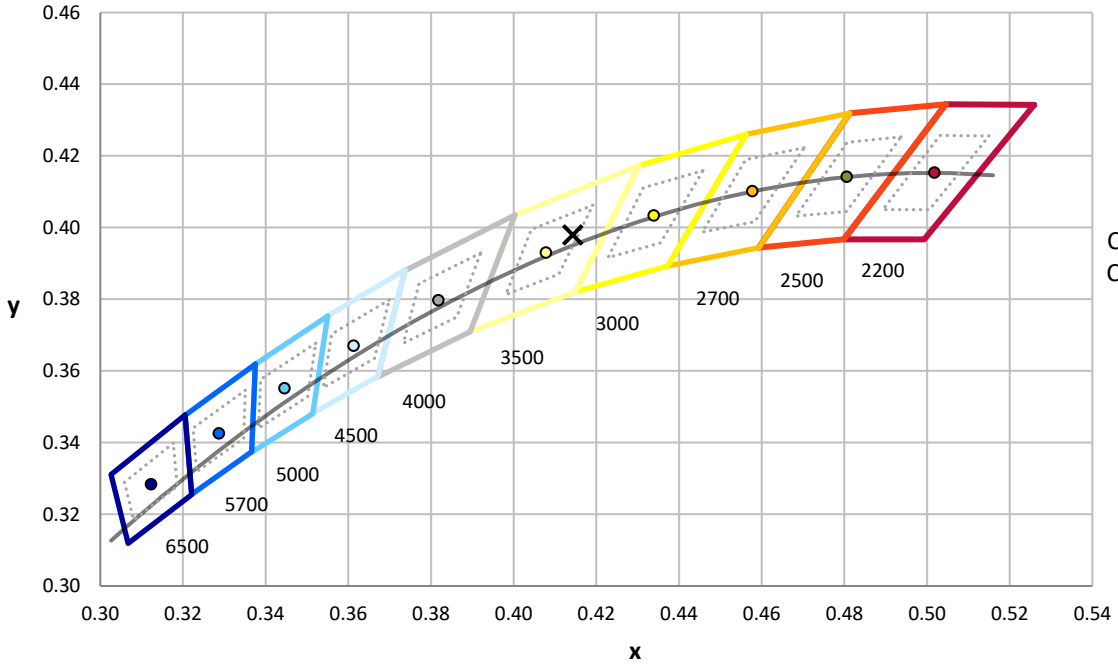
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

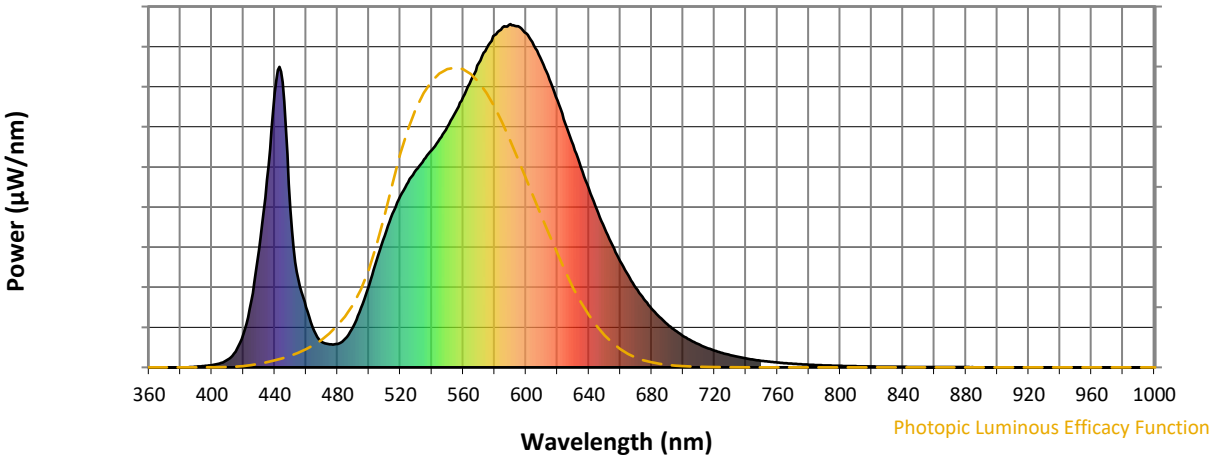


CCT = 3369K
CIE x = 0.4143
CIE y = 0.3980
Duv = 0.0013

Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-5

Photopic Flux vs. Wavelength

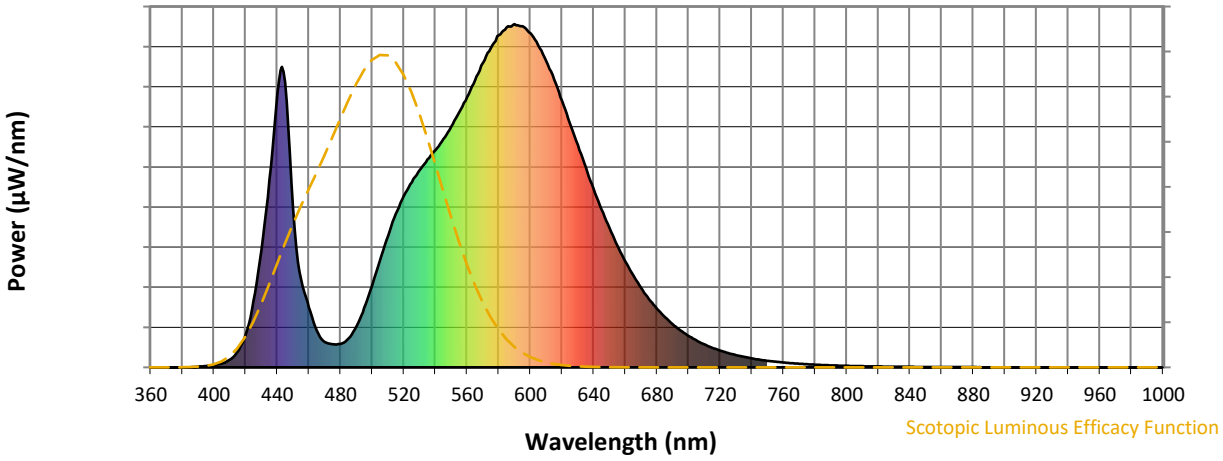


Photopic Lumens: NR

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

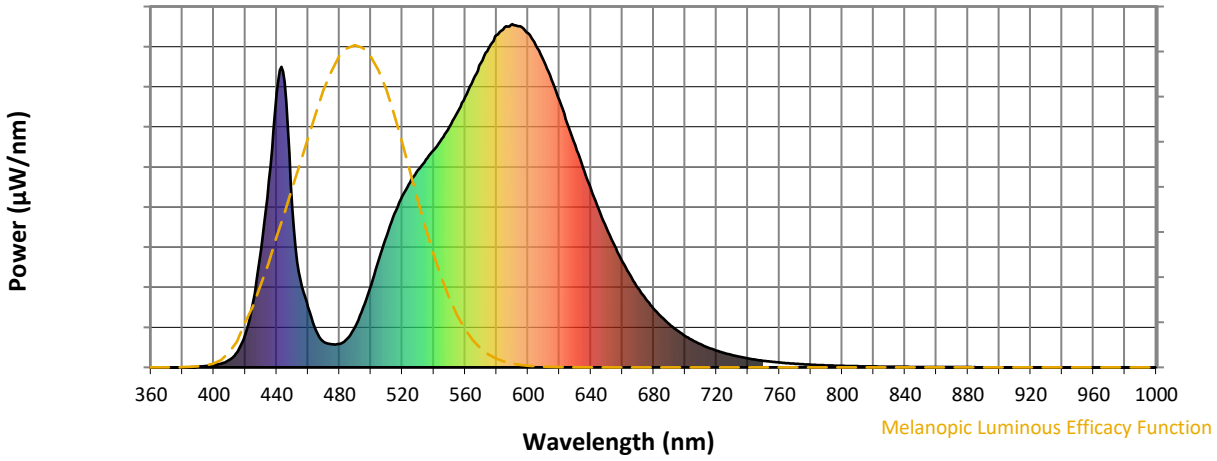


Scotopic Lumens: NR **S/P: 1.29**

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			

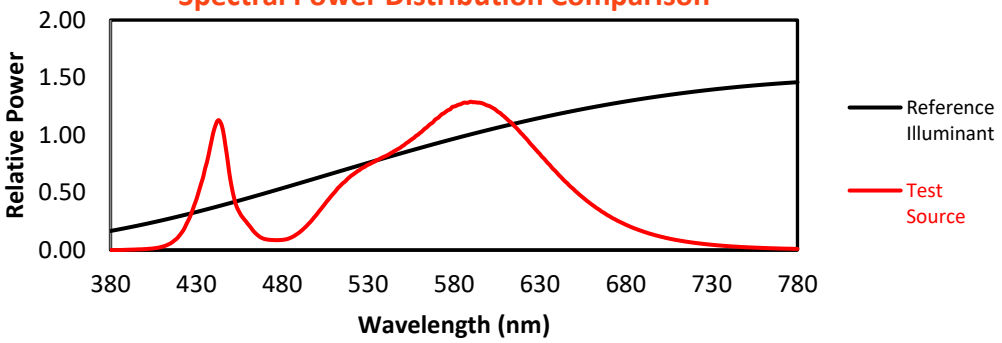
REPORT NUMBER: SP1-2407-184-5

TM-30-18

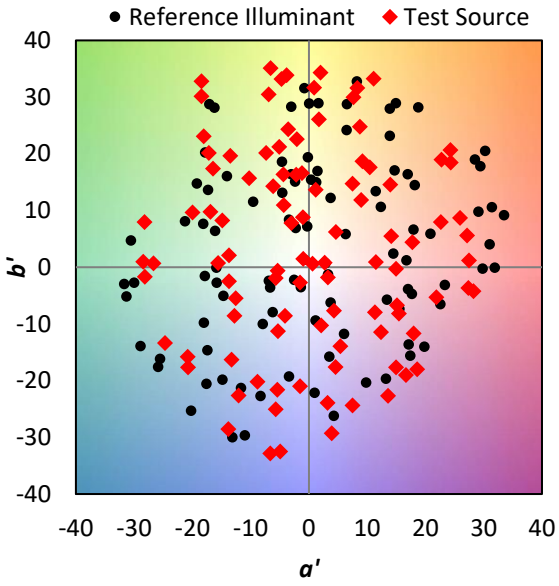
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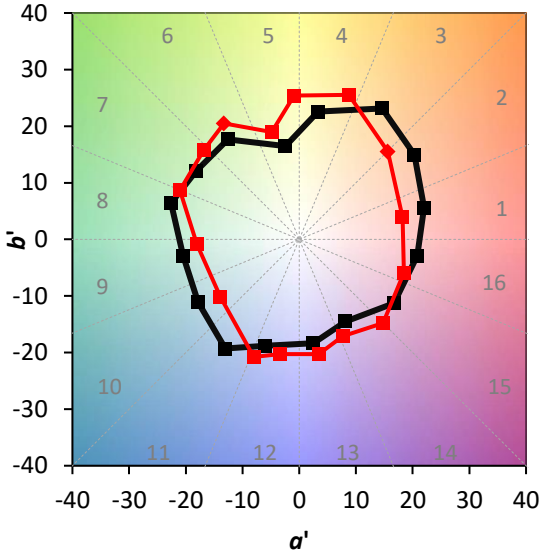
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R_g = 96
CIE R_a = 70.1
R_9 = -40.2

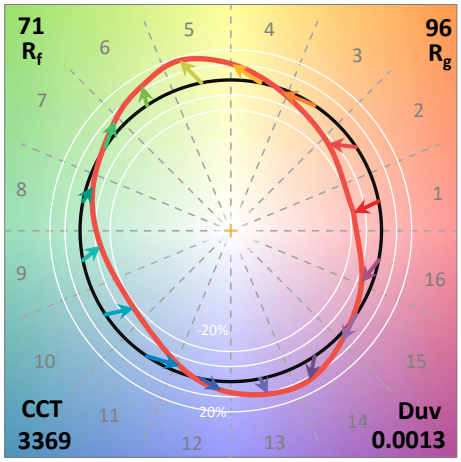
Spectral Power Distribution Comparison

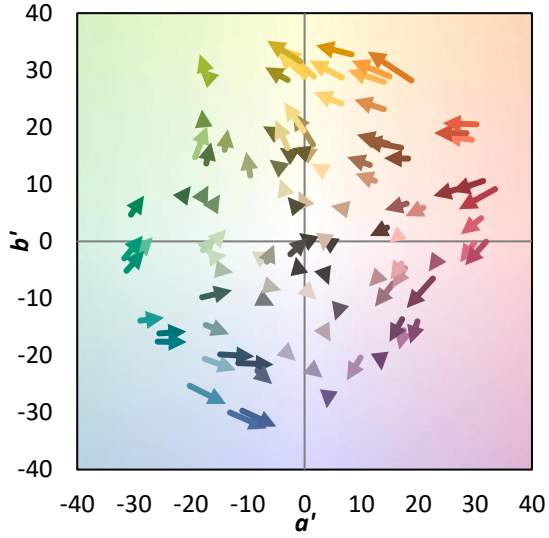


Color Vector Graphics







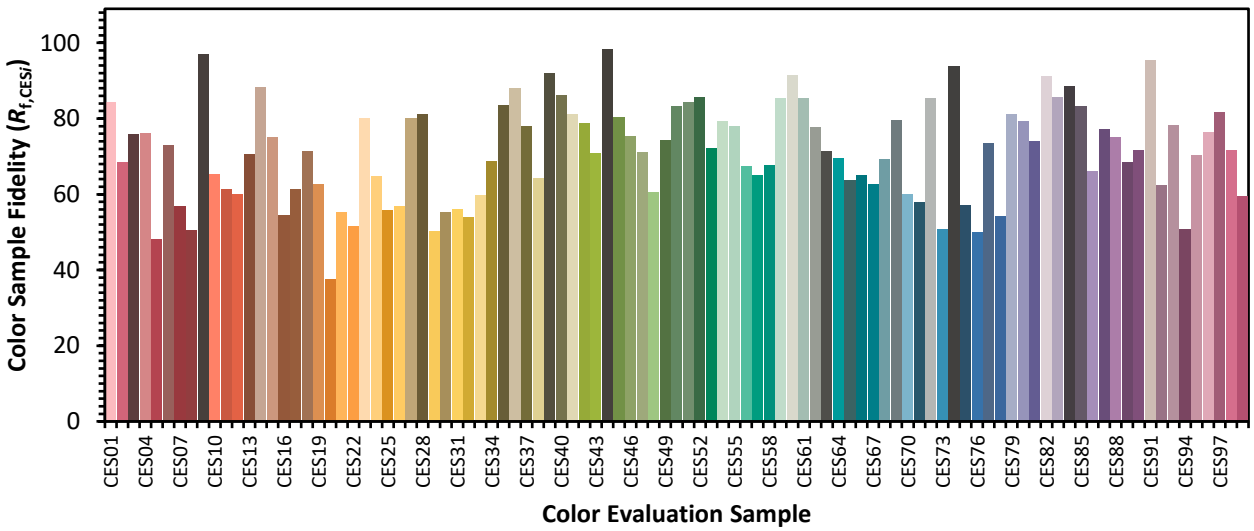


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Individual Sample Fidelity Index ($R_{f,i}$)

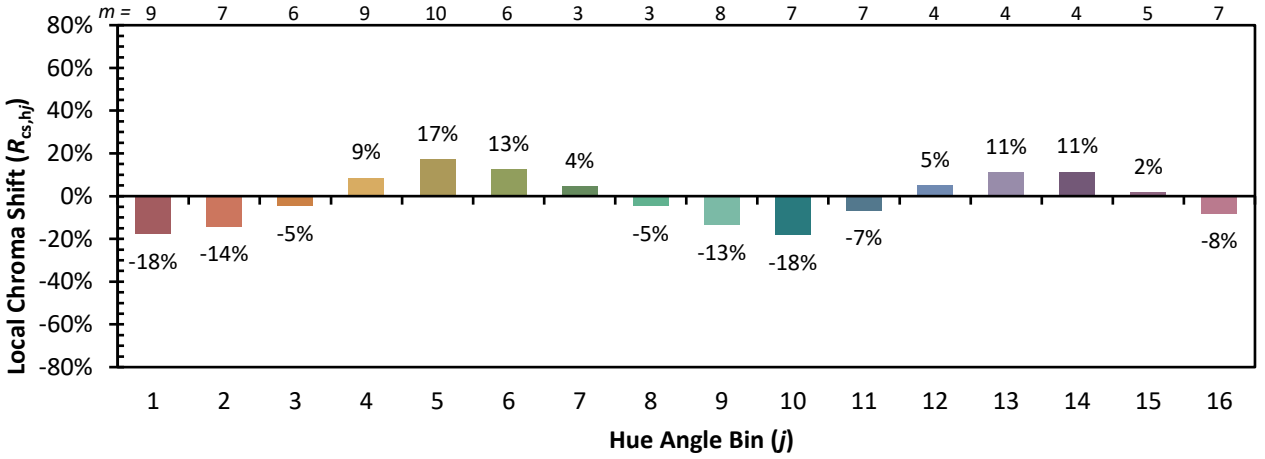
CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82 = 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	

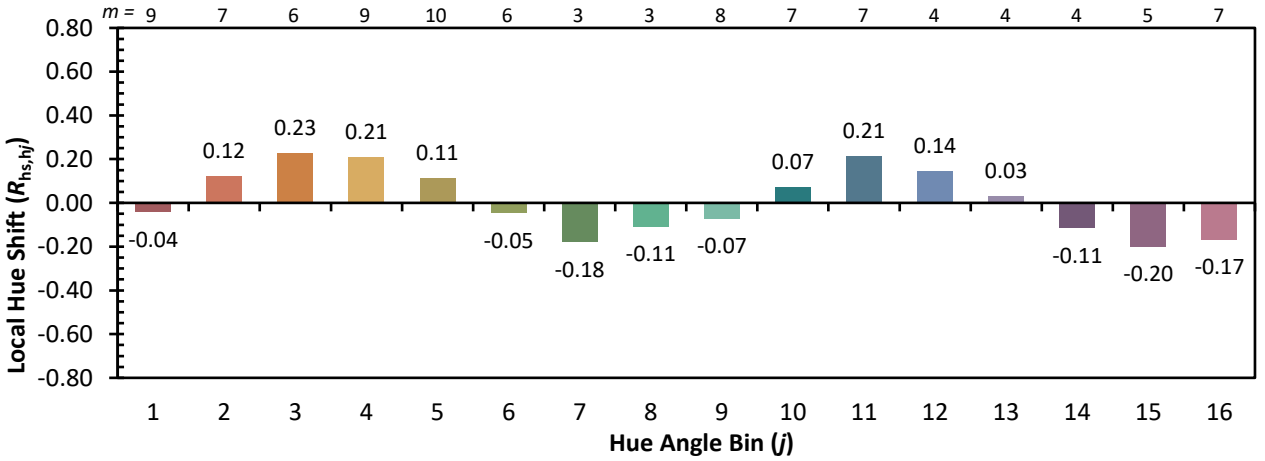


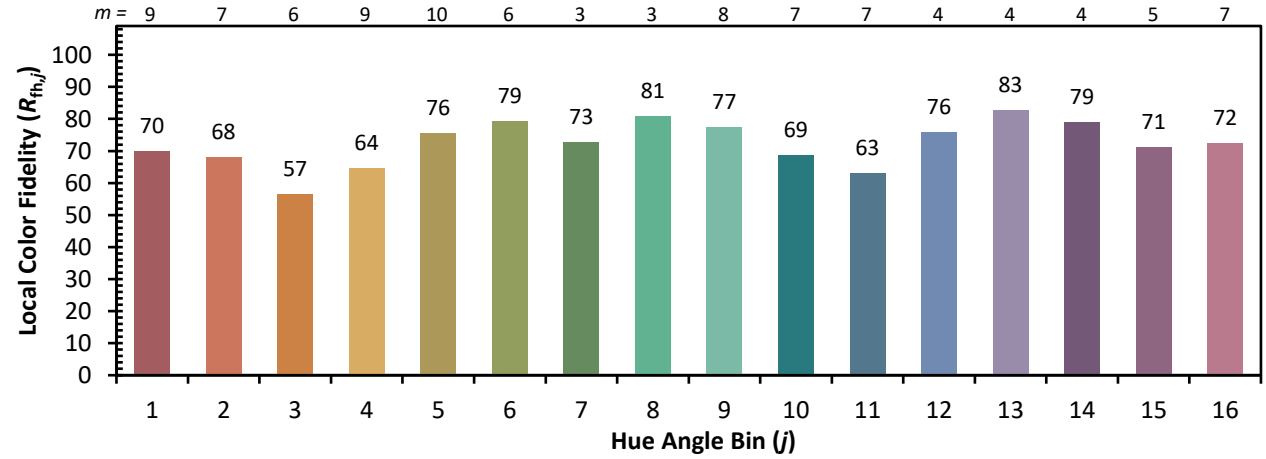
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Color Rendition by Hue-Angle Bin



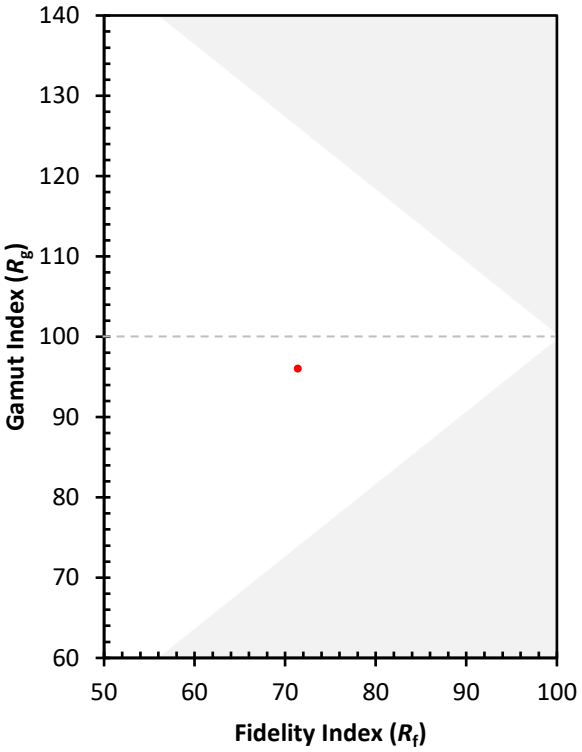


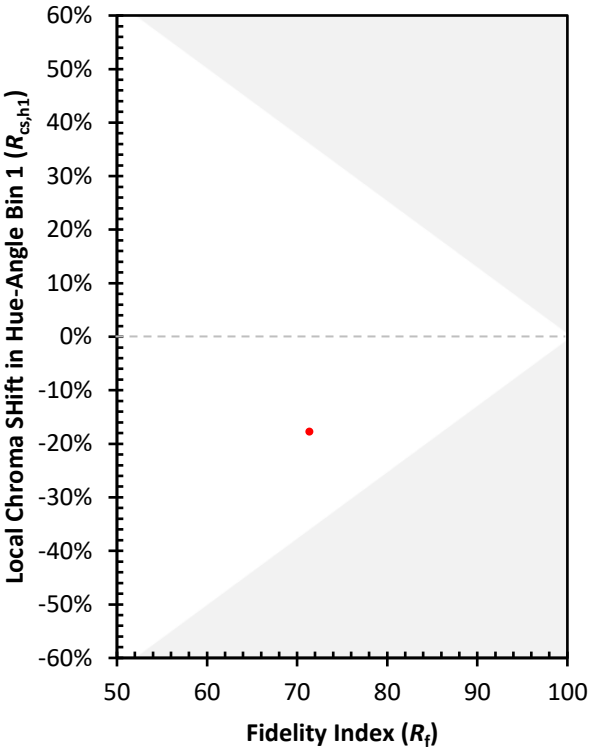


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Measure Comparisons





(END OF REPORT)