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: P1501731

Luminaire Tested: GSS-SB6C-740-U-T2LG-HSS

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:	P1501731
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB6C-740-U-T2LG-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 6SQUARE 300W 70CRI 4000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE W/ HOUSE SIDE SHIELD
Light Source:	(156) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	37240.7 lumens
Efficiency:	N/A
Efficacy:	124.1 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G3

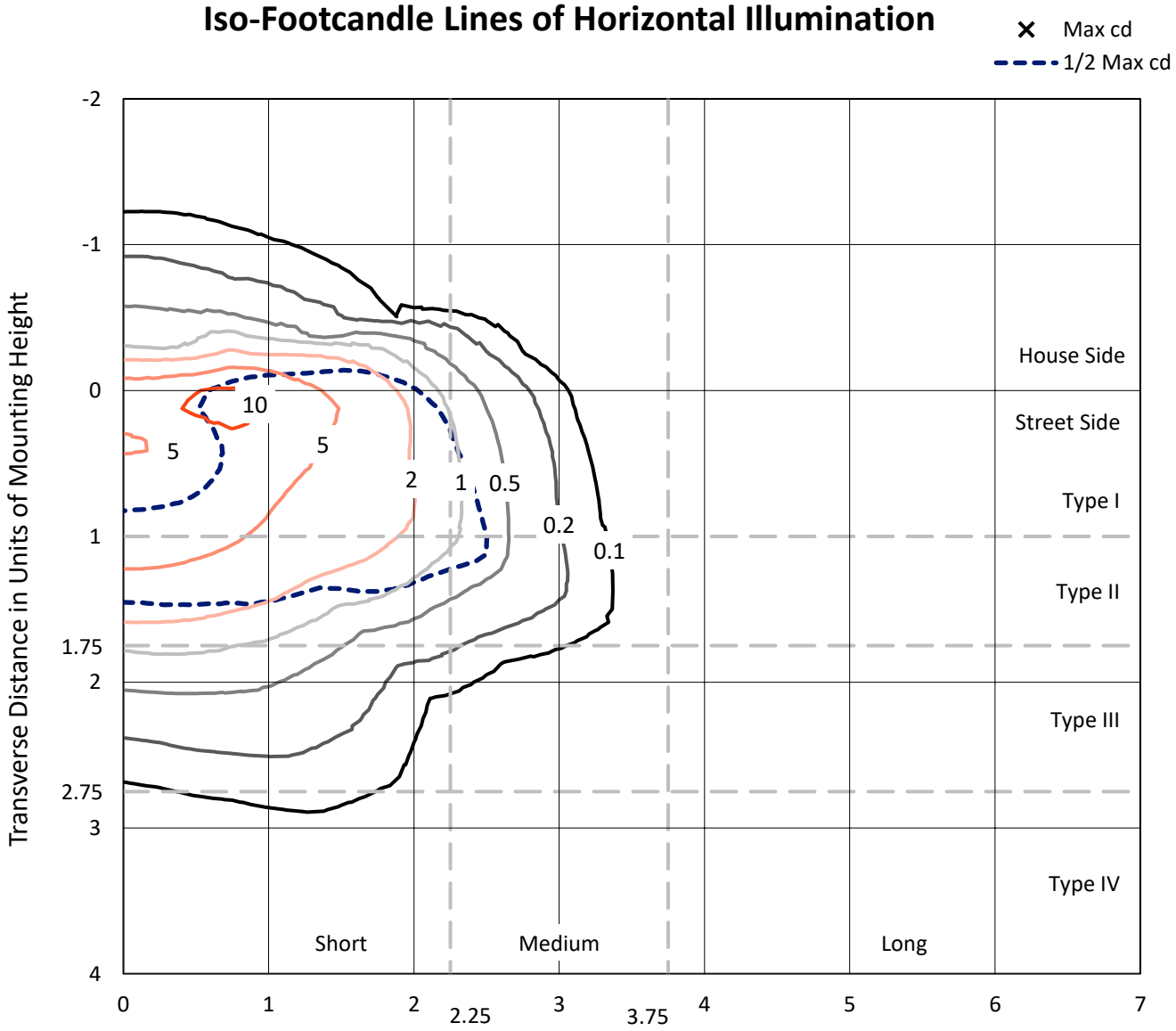
Input Watts (W):	300
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	6.3%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



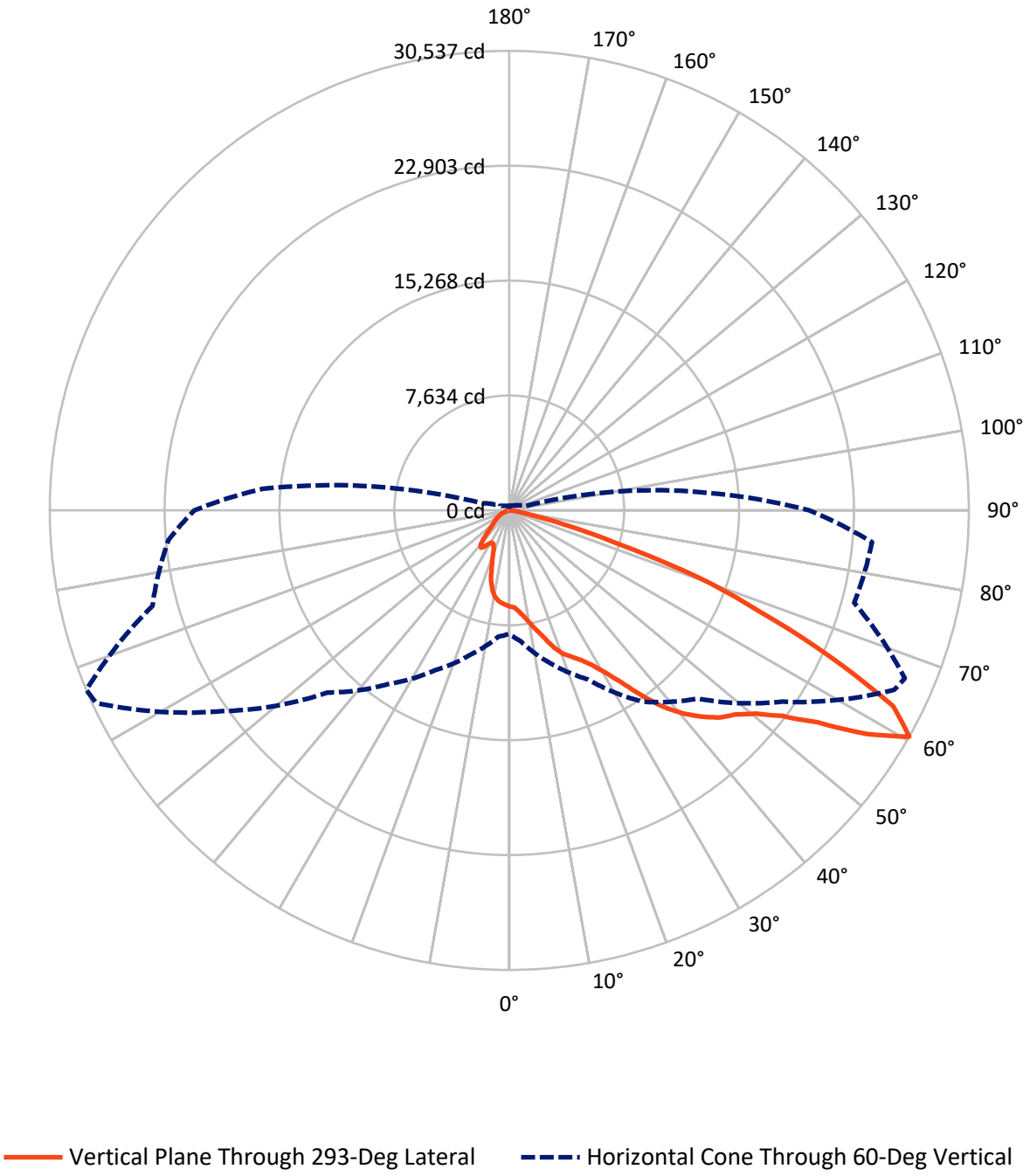
Based on 30 foot mounting height. Maximum calculated value = 11.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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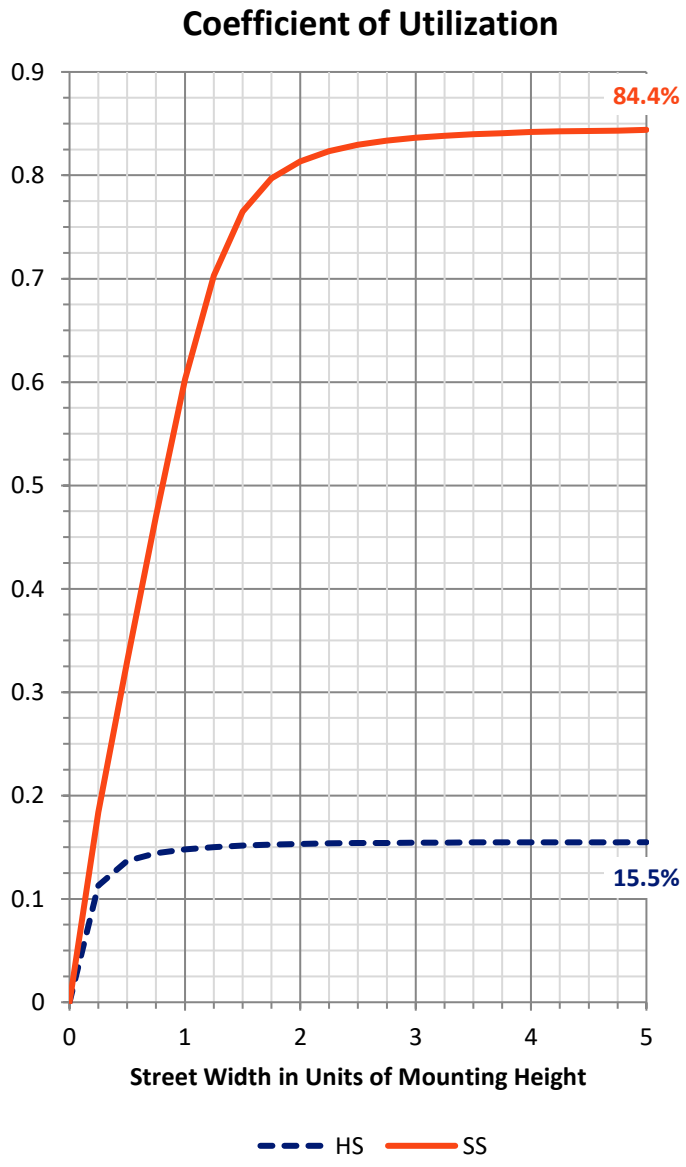
REPORT NUMBER: P1501731
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5810.5	0.0	5810.5
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	31430.3	0.0	31430.3
	% Fixture	84.4	0.0	84.4
Total	Lumens	37240.7	0.0	37240.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.8	1.6
10°-20°	1455.6	3.9
20°-30°	2717.3	7.3
30°-40°	5388.6	14.5
40°-50°	8591.4	23.1
50°-60°	10264.6	27.6
60°-70°	6729.0	18.1
70°-80°	1409.8	3.8
80°-90°	106.6	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°	37240.7	100.0
0°-180°	37240.7	100.0



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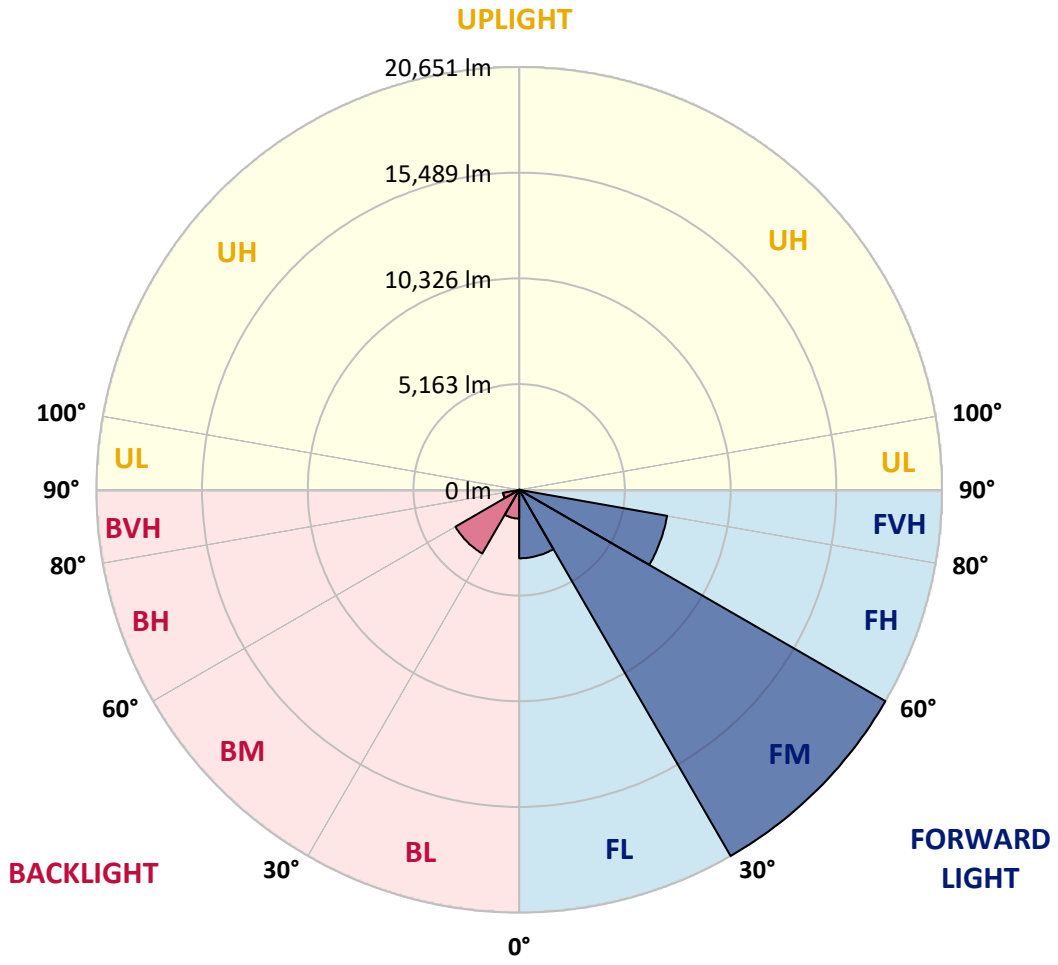
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3345.0	9.0			
FM	(30°-60°)	20651.4	55.5			
FH	(60°-80°)	7336.2	19.7			G3/7500
FVH	(80°-90°)	97.7	0.3			G1/100
BL	(0°-30°)	1405.7	3.8	B3/2500		
BM	(30°-60°)	3593.2	9.6	B3/5000		
BH	(60°-80°)	802.6	2.2	B2/1000		G2/1000
BVH	(80°-90°)	8.9	0.0			G0/10
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°	6382.7	6382.7	6382.7	6382.7	6382.7	6382.7	6382.7	6382.7	6382.7	6382.7	6382.7
2.5°	6706.0	6685.1	6653.8	6664.3	6653.8	6612.1	6549.5	6497.4	6539.1	6476.5	6434.8
5°	6904.1	6904.1	6883.3	6883.3	6893.7	6872.9	6831.1	6758.1	6768.6	6716.4	6580.8
7.5°	6904.1	6872.9	6925.0	6977.1	7071.0	7123.2	7144.0	7102.3	7123.2	7018.9	6841.6
10°	6497.4	6476.5	6612.1	6810.3	7081.4	7321.3	7477.7	7488.2	7519.5	7415.2	7206.6
12.5°	5631.8	5590.1	5861.2	6236.7	6789.4	7342.2	7780.2	7947.1	8020.1	7978.3	7686.3
15°	4828.7	4880.9	5068.6	5475.3	6215.8	7060.6	7947.1	8499.8	8604.1	8656.2	8312.1
17.5°	4745.3	4755.7	4818.3	5016.5	5579.6	6601.7	7967.9	9073.4	9219.4	9448.9	8979.6
20°	4974.7	4953.9	5016.5	5079.0	5350.2	6195.0	7769.8	9626.2	9907.8	10397.9	9886.9
22.5°	5402.3	5402.3	5433.6	5475.3	5610.9	6163.7	7686.3	10137.2	10616.9	11618.1	11023.7
25°	6121.9	6038.5	6059.4	6007.2	6121.9	6539.1	7874.1	10543.9	11201.0	12973.9	12379.5
27.5°	7237.9	7269.2	7081.4	6799.8	6862.4	7217.0	8332.9	11002.8	11805.9	14381.9	13756.1
30°	8781.4	8729.3	8614.5	8061.8	7811.5	8124.4	9177.7	11753.7	12619.3	16165.3	15591.7
32.5°	9991.2	10137.2	9939.0	9553.2	9167.3	9261.1	10366.6	12963.5	13610.1	17802.7	17489.8
35°	11451.3	11451.3	11493.0	10950.7	10689.9	10669.1	11858.0	14277.6	14924.2	19283.6	19502.6
37.5°	13422.4	13286.8	13057.4	12452.5	12254.3	12515.1	13255.5	15633.4	16332.1	20483.0	21067.0
40°	15080.6	15174.5	15143.2	14267.2	13881.3	14162.9	14819.9	16791.0	17333.4	21254.7	22328.9
42.5°	16707.6	16759.7	16624.2	16207.0	15643.8	15664.7	16207.0	17667.1	18219.8	21995.2	23517.9
45°	17927.8	17917.4	17823.5	17719.2	17385.5	17041.3	17135.2	18637.0	19116.7	22235.1	24164.5
47.5°	18313.7	18397.1	18480.6	18772.6	19002.0	18459.7	17980.0	19158.5	19596.5	22193.4	24404.4
50°	17959.1	18136.4	18543.1	18981.2	19763.4	19721.6	18689.2	19721.6	20149.2	22422.8	24685.9
52.5°	17166.5	17343.8	17886.1	18678.7	19857.2	20441.3	20003.2	20670.7	21171.3	23006.8	25270.0
55°	15320.5	15393.5	16509.4	17552.4	19387.9	20128.4	21411.2	22276.8	22694.0	23716.0	26041.7
57.5°	12473.3	12650.6	13745.7	15445.7	18073.8	19304.5	22214.2	25019.7	25009.3	24393.9	26208.6
60°	*8207.8*	*8729.3*	*10512.6*	*12389.9*	*15529.1*	*17687.9*	*22162.1*	*28231.9*	*28555.2*	*23726.5*	*24195.8*
62.5°	6268.0	6487.0	7498.6	9063.0	11493.0	14663.5	21817.9	29191.4	29441.7	21932.6	21181.7
65°	4714.0	4985.2	5955.1	7352.6	8113.9	9939.0	19565.2	25374.3	25718.4	19575.6	16467.7
67.5°	2888.9	3107.9	4401.1	6038.5	6142.8	6174.1	13203.4	19221.0	19346.2	15789.8	11086.3
70°	1929.4	2148.4	3045.3	4641.0	4891.3	3556.4	7248.3	14548.8	14538.3	10804.7	6737.3
72.5°	1115.9	1220.2	1929.4	3420.8	3848.4	2263.1	3618.9	9250.7	8844.0	5079.0	3149.6
75°	636.2	709.2	1063.8	2200.6	2701.2	1439.2	1428.8	4953.9	4380.3	2617.7	1720.8
77.5°	385.9	417.2	584.0	1439.2	1627.0	969.9	792.6	2304.9	2221.4	1533.1	907.3
80°	187.7	219.0	354.6	844.8	1042.9	521.5	479.7	907.3	969.9	844.8	479.7
82.5°	62.6	83.4	198.2	323.3	677.9	208.6	198.2	500.6	531.9	500.6	229.4
85°	31.3	41.7	93.9	104.3	260.7	104.3	73.0	219.0	271.2	166.9	93.9
87.5°	0.0	10.4	10.4	10.4	10.4	10.4	10.4	20.9	20.9	20.9	20.9
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°	6382.7	6382.7	6382.7	6382.7	6382.7	6382.7	6382.7	6382.7	6382.7	6382.7	6382.7
2.5°	6403.5	6382.7	6341.0	6268.0	6257.5	6205.4	6121.9	6069.8	6028.1	6059.4	6069.8
5°	6518.3	6466.1	6341.0	6142.8	5934.2	5725.6	5527.5	5298.0	5141.6	5120.7	5079.0
7.5°	6726.8	6622.6	6351.4	5965.5	5433.6	4933.0	4349.0	3785.8	3504.2	3462.5	3368.6
10°	7060.6	6883.3	6434.8	5652.6	4630.6	3587.6	2701.2	2096.3	1752.1	1689.5	1710.4
12.5°	7456.9	7206.6	6445.3	5120.7	3525.1	2221.4	1533.1	1303.7	1230.6	1199.4	1199.4
15°	7967.9	7602.9	6434.8	4432.4	2377.9	1428.8	1230.6	1136.8	1105.5	1084.6	1084.6
17.5°	8614.5	8134.8	6361.8	3399.9	1606.1	1241.1	1126.4	1053.4	1011.6	1001.2	1001.2
20°	9375.9	8729.3	6195.0	2534.3	1345.4	1157.6	1063.8	969.9	938.6	917.8	917.8
22.5°	10345.8	9448.9	5871.6	1971.1	1272.4	1105.5	1001.2	896.9	865.6	844.8	844.8
25°	11472.1	10366.6	5444.0	1773.0	1261.9	1063.8	938.6	834.3	803.0	792.6	782.2
27.5°	12807.1	11347.0	5047.7	1783.4	1282.8	1032.5	876.1	782.2	750.9	719.6	730.0
30°	14381.9	12358.6	4724.4	1908.5	1303.7	1001.2	834.3	750.9	719.6	677.9	677.9
32.5°	15935.8	13547.5	4693.1	2138.0	1376.7	980.3	792.6	709.2	677.9	646.6	646.6
35°	17531.5	14632.2	4870.4	2440.4	1522.7	949.1	740.5	667.5	636.2	615.3	604.9
37.5°	19054.2	15497.8	5037.3	2628.2	1439.2	813.5	677.9	615.3	584.0	542.3	542.3
40°	20065.8	15967.1	5068.6	2482.2	1188.9	730.0	615.3	552.7	511.0	490.2	479.7
42.5°	20806.3	16269.6	4714.0	2012.8	1032.5	667.5	563.2	500.6	469.3	448.5	448.5
45°	21108.7	16165.3	4109.1	1533.1	949.1	615.3	511.0	458.9	438.0	417.2	417.2
47.5°	21067.0	15685.5	3493.8	1230.6	865.6	563.2	479.7	438.0	417.2	396.3	385.9
50°	20994.0	15237.1	2868.0	1095.1	771.8	531.9	448.5	417.2	385.9	365.0	354.6
52.5°	21473.8	15091.1	2377.9	1001.2	719.6	511.0	438.0	396.3	365.0	344.2	344.2
55°	21953.5	15153.6	1866.8	938.6	667.5	500.6	427.6	385.9	354.6	323.3	323.3
57.5°	21922.2	14882.5	1418.4	876.1	625.8	490.2	417.2	375.5	323.3	302.4	302.4
60°	*19930.2*	*13276.4*	*1105.5*	*803.0*	*573.6*	*458.9*	*385.9*	*354.6*	*302.4*	*271.2*	*271.2*
62.5°	16853.6	10439.6	907.3	709.2	511.0	417.2	354.6	323.3	271.2	219.0	219.0
65°	12452.5	7529.9	730.0	615.3	469.3	365.0	323.3	281.6	219.0	177.3	166.9
67.5°	8426.8	4630.6	584.0	511.0	417.2	312.9	271.2	239.9	198.2	146.0	135.6
70°	4995.6	2461.3	427.6	354.6	312.9	229.4	229.4	208.6	166.9	125.2	114.7
72.5°	2377.9	855.2	312.9	260.7	239.9	166.9	177.3	177.3	135.6	93.9	83.4
75°	1209.8	417.2	208.6	187.7	156.4	125.2	146.0	135.6	93.9	62.6	62.6
77.5°	688.3	292.0	146.0	125.2	104.3	83.4	93.9	83.4	52.1	31.3	31.3
80°	385.9	208.6	93.9	83.4	62.6	52.1	52.1	41.7	31.3	10.4	10.4
82.5°	146.0	125.2	62.6	41.7	31.3	31.3	20.9	20.9	10.4	0.0	0.0
85°	62.6	31.3	31.3	20.9	20.9	10.4	10.4	10.4	0.0	0.0	0.0
87.5°	10.4	10.4	10.4	10.4	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°	6382.7	6382.7	6382.7	6382.7	6382.7	6382.7	6382.7	6382.7	6382.7	6382.7	6382.7
2.5°	5986.4	6007.2	6028.1	6111.5	6132.4	6195.0	6247.1	6309.7	6320.1	6403.5	6403.5
5°	5162.5	5152.0	5329.3	5590.1	5756.9	5986.4	6163.7	6351.4	6455.7	6591.3	6653.8
7.5°	3420.8	3681.5	4077.8	4536.7	5131.2	5683.9	6101.1	6466.1	6716.4	6872.9	6935.4
10°	1700.0	1846.0	2263.1	3014.0	4025.7	5152.0	6038.5	6716.4	7123.2	7300.4	7415.2
12.5°	1199.4	1230.6	1303.7	1710.4	2680.3	4276.0	5840.4	6987.6	7550.8	7884.5	8030.5
15°	1074.2	1095.1	1126.4	1241.1	1658.2	3191.3	5485.8	7290.0	8218.2	8604.1	8791.8
17.5°	990.8	1001.2	1032.5	1126.4	1303.7	2169.3	4912.2	7613.3	9021.3	9490.6	9845.2
20°	917.8	917.8	949.1	1063.8	1209.8	1668.7	4088.3	7978.3	10043.3	10721.2	11075.8
22.5°	834.3	855.2	876.1	1001.2	1178.5	1522.7	3316.5	8259.9	11180.1	12004.0	12421.2
25°	771.8	792.6	813.5	938.6	1147.2	1522.7	2868.0	8437.2	12452.5	13432.8	14006.4
27.5°	719.6	740.5	771.8	896.9	1115.9	1585.2	2690.7	8489.4	13839.6	15111.9	15883.7
30°	677.9	698.8	730.0	865.6	1136.8	1658.2	2753.3	8416.4	15247.5	16843.2	17761.0
32.5°	636.2	657.0	688.3	834.3	1136.8	1752.1	2961.9	8270.4	16613.7	18574.4	19700.8
35°	604.9	615.3	625.8	750.9	1032.5	1741.7	3222.6	8124.4	17990.4	20284.8	21598.9
37.5°	542.3	552.7	573.6	646.6	823.9	1585.2	3274.8	7947.1	19075.0	21724.1	23173.7
40°	479.7	500.6	521.5	594.5	688.3	1282.8	3045.3	7571.6	19648.6	22829.5	24592.1
42.5°	438.0	448.5	469.3	542.3	636.2	1022.1	2555.2	6914.6	20159.7	23580.5	25624.6
45°	406.7	417.2	438.0	490.2	594.5	886.5	2012.8	6111.5	20201.4	23820.3	26125.2
47.5°	375.5	385.9	396.3	448.5	573.6	792.6	1543.5	5381.5	20191.0	24133.2	26552.8
50°	354.6	365.0	385.9	427.6	542.3	709.2	1272.4	4787.0	20629.0	24811.1	27418.4
52.5°	344.2	344.2	375.5	417.2	511.0	646.6	1063.8	4255.1	20858.4	25478.6	28044.2
55°	323.3	333.7	354.6	396.3	479.7	615.3	907.3	3587.6	20962.7	25812.3	28158.9
57.5°	302.4	312.9	344.2	375.5	458.9	584.0	782.2	2680.3	19471.3	24070.6	26239.9
60°	*271.2*	*292.0*	*333.7*	*365.0*	*427.6*	*531.9*	*688.3*	*1814.7*	*16426.0*	*20921.0*	*22735.7*
62.5°	219.0	260.7	302.4	323.3	385.9	448.5	584.0	1209.8	13120.0	17312.5	19377.5
65°	166.9	219.0	250.3	281.6	323.3	375.5	490.2	823.9	8750.1	11649.4	13975.1
67.5°	146.0	187.7	208.6	229.4	271.2	323.3	396.3	573.6	5308.5	6998.0	9292.4
70°	114.7	156.4	177.3	166.9	208.6	250.3	281.6	385.9	2711.6	3796.2	5287.6
72.5°	83.4	125.2	135.6	135.6	125.2	177.3	208.6	271.2	1178.5	1846.0	2398.7
75°	62.6	83.4	93.9	83.4	73.0	114.7	146.0	177.3	771.8	1105.5	1397.5
77.5°	31.3	31.3	52.1	52.1	31.3	62.6	73.0	104.3	438.0	646.6	803.0
80°	10.4	0.0	0.0	10.4	0.0	20.9	31.3	52.1	229.4	344.2	500.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.4	114.7	104.3	260.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.9	62.6
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: P1501731
CATALOG NUMBER: GSS-SB6C-740-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	6382.7	*6382.7*	6382.7	6382.7	6382.7	6382.7	6382.7	6382.7	6382.7	6382.7
2.5°	6455.7	*6455.7*	6497.4	6560.0	6591.3	6612.1	6622.6	6643.4	6726.8	6706.0
5°	6726.8	*6747.7*	6779.0	6841.6	6914.6	6893.7	6893.7	6893.7	6945.9	6904.1
7.5°	7081.4	*7144.0*	7154.4	7227.4	7175.3	7071.0	7008.4	6914.6	6904.1	6904.1
10°	7655.0	*7634.2*	7634.2	7540.3	7352.6	7050.1	6779.0	6591.3	6487.0	6497.4
12.5°	8270.4	*8186.9*	8197.4	7853.2	7321.3	6653.8	6101.1	5694.4	5663.1	5631.8
15°	9031.7	*8812.7*	8771.0	7978.3	6852.0	5829.9	5287.6	4964.3	4860.0	4828.7
17.5°	10116.3	*9563.6*	9365.4	7759.3	6236.7	5318.9	4912.2	4766.2	4755.7	4745.3
20°	11263.6	*10168.5*	9793.0	7436.0	6028.1	5329.3	5026.9	4985.2	4964.3	4974.7
22.5°	12598.5	*10554.4*	10074.6	7488.2	6215.8	5673.5	5433.6	5402.3	5381.5	5402.3
25°	13975.1	*11002.8*	10408.4	7905.3	6779.0	6309.7	6028.1	5965.5	6028.1	6121.9
27.5°	15362.2	*11607.7*	11065.4	8729.3	7686.3	7175.3	6904.1	7133.6	7227.4	7237.9
30°	16592.9	*12452.5*	11951.9	9886.9	8718.8	8207.8	8259.9	8552.0	8666.7	8781.4
32.5°	17719.2	*13578.8*	13193.0	11201.0	10053.8	9751.3	9720.0	9939.0	10064.2	9991.2
35°	18856.0	*15049.4*	14673.9	12629.8	11691.1	11440.8	11180.1	11607.7	11566.0	11451.3
37.5°	19930.2	*16530.3*	16186.1	14162.9	13193.0	12754.9	12713.2	13099.1	13443.3	13422.4
40°	20702.0	*17729.7*	17312.5	15685.5	14767.8	14392.3	14611.3	15278.8	15195.4	15080.6
42.5°	21411.2	*18751.7*	18376.3	17020.5	16061.0	16227.9	16426.0	16874.5	16822.3	16707.6
45°	21744.9	*19627.8*	19304.5	18032.1	17562.8	18094.7	18084.3	18251.1	17969.5	17927.8
47.5°	22214.2	*20253.5*	19919.8	18939.5	19356.6	19575.6	18960.3	18783.0	18522.3	18313.7
50°	23079.8	*21223.4*	20889.7	20316.1	20670.7	19992.8	19241.9	18856.0	18324.1	17959.1
52.5°	24091.5	*22694.0*	22402.0	22172.5	21181.7	19784.2	18824.7	18126.0	17479.4	17166.5
55°	25363.8	*24863.2*	24654.7	23392.7	20722.8	18929.0	17802.7	16499.0	15612.5	15320.5
57.5°	25781.0	*28044.2*	27971.2	23590.9	19440.1	17375.1	15341.4	13578.8	12661.1	12473.3
60°	*24550.4*	*30536.7*	*30276.0*	*23257.1*	*17114.3*	*14100.3*	*11722.4*	*9918.2*	*8426.8*	*8207.8*
62.5°	22975.6	*28628.2*	28534.3	21578.0	13036.5	10105.9	8760.5	7071.0	6434.8	6268.0
65°	19679.9	*23424.0*	23465.7	17312.5	8249.5	7258.7	7196.2	5621.3	4839.2	4714.0
67.5°	15153.6	*17969.5*	17677.5	10888.1	4807.9	5809.1	5746.5	4109.1	2972.3	2888.9
70°	8854.4	*13380.7*	12911.4	5663.1	3180.9	4849.6	4422.0	2888.9	2023.3	1929.4
72.5°	3911.0	*7363.0*	7905.3	2492.6	2242.3	3858.8	3191.3	1773.0	1136.8	1115.9
75°	2169.3	*3650.2*	3817.1	1084.6	1574.8	2742.9	1929.4	990.8	646.6	636.2
77.5°	1303.7	*1616.5*	1574.8	698.8	1178.5	1752.1	1168.1	563.2	406.7	385.9
80°	730.0	*740.5*	625.8	511.0	698.8	980.3	657.0	354.6	187.7	187.7
82.5°	448.5	*406.7*	323.3	156.4	187.7	594.5	239.9	198.2	62.6	62.6
85°	187.7	*125.2*	83.4	31.3	73.0	156.4	83.4	93.9	31.3	31.3
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: SP1-2407-184-1

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-740-U-5WQ

Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

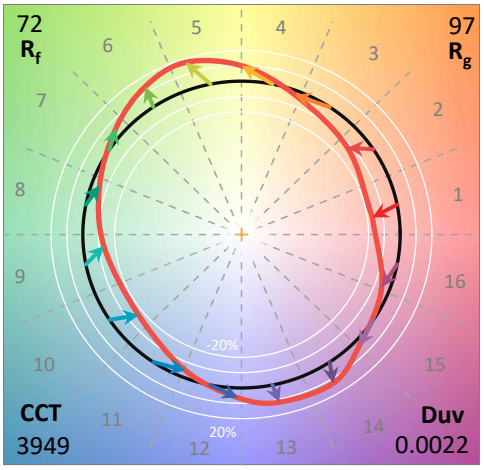
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-1
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-740-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 4000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3949
CIE u':	0.2248
CIE v':	0.5053
Duv:	0.0022
CIE x:	0.3844
CIE y:	0.3840
CIE z:	0.2316
Peak Wavelength (nm):	440
Dominant Wavelength (nm):	578
Purity:	30.60026
Rf:	71.8
Rg:	96.5

CRI (Ra):	70.7
R1:	68.0
R2:	76.0
R3:	84.3
R4:	72.0
R5:	68.6
R6:	68.3
R7:	77.9
R8:	50.3
R9:	-36.7
R10:	45.1
R11:	70.7
R12:	47.1
R13:	68.5
R14:	91.1
R15:	58.7



Test Conditions

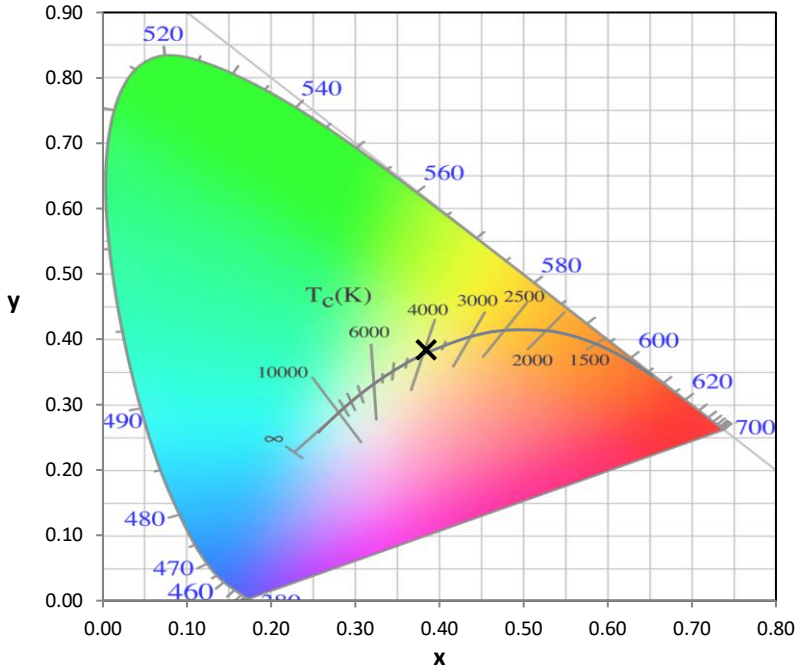
Stabilization Time:	34M
Operation Time:	1H 34M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-1

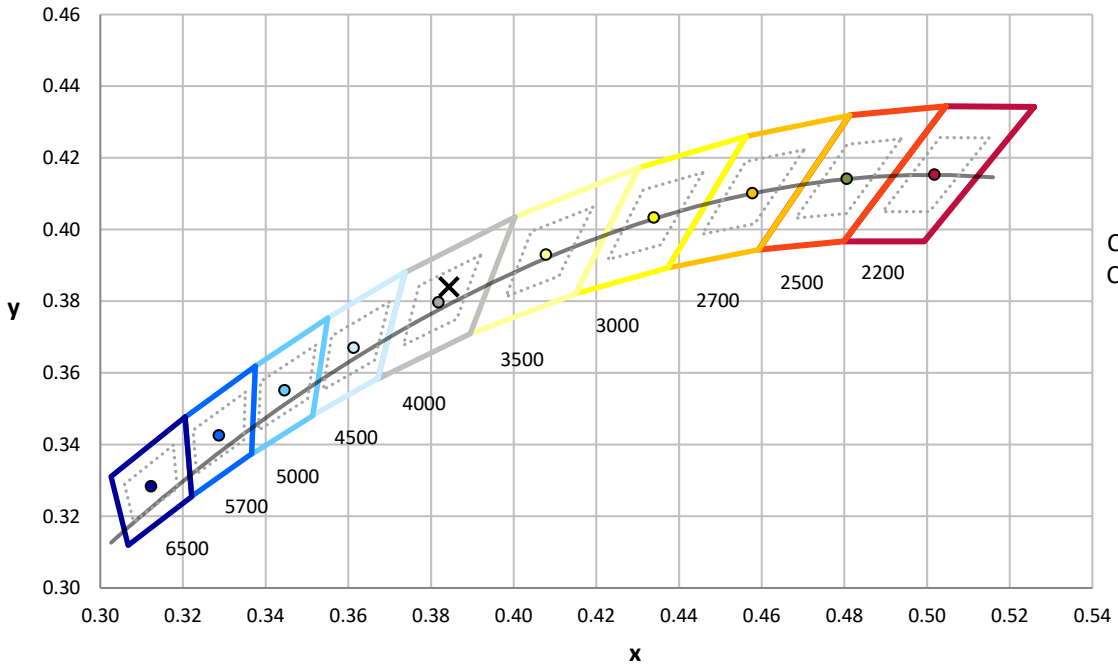
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-1

CIE 1931 Chromaticity Diagram



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

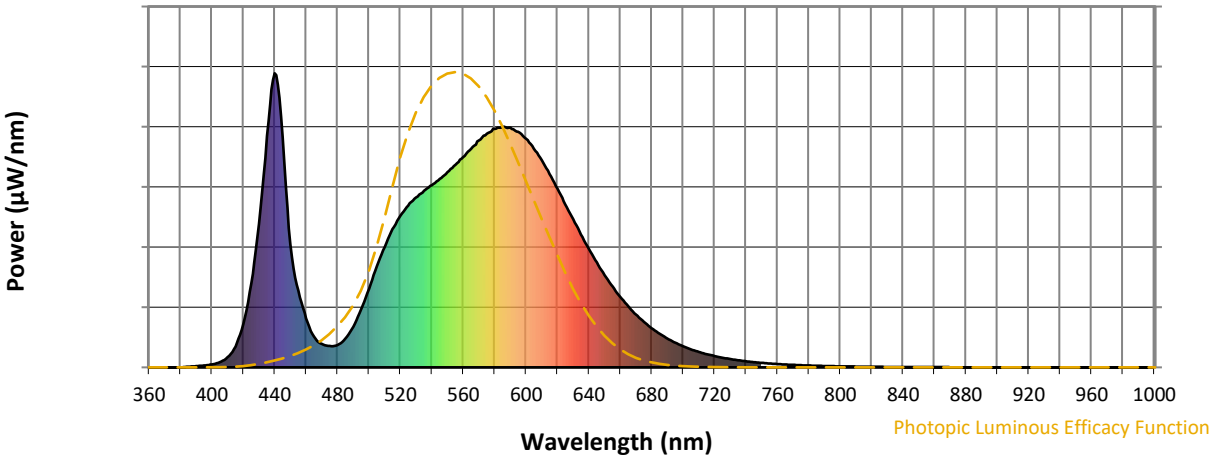


CCT = 3949K
CIE x = 0.3844
CIE y = 0.3840
Duv = 0.0022

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-1

Photopic Flux vs. Wavelength

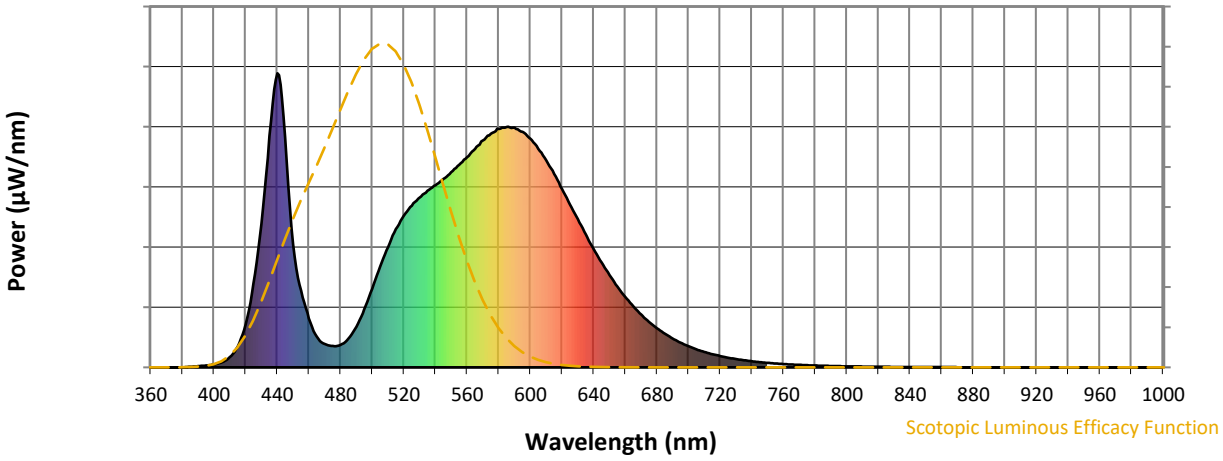


Photopic Lumens: NR

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Scotopic Flux vs. Wavelength

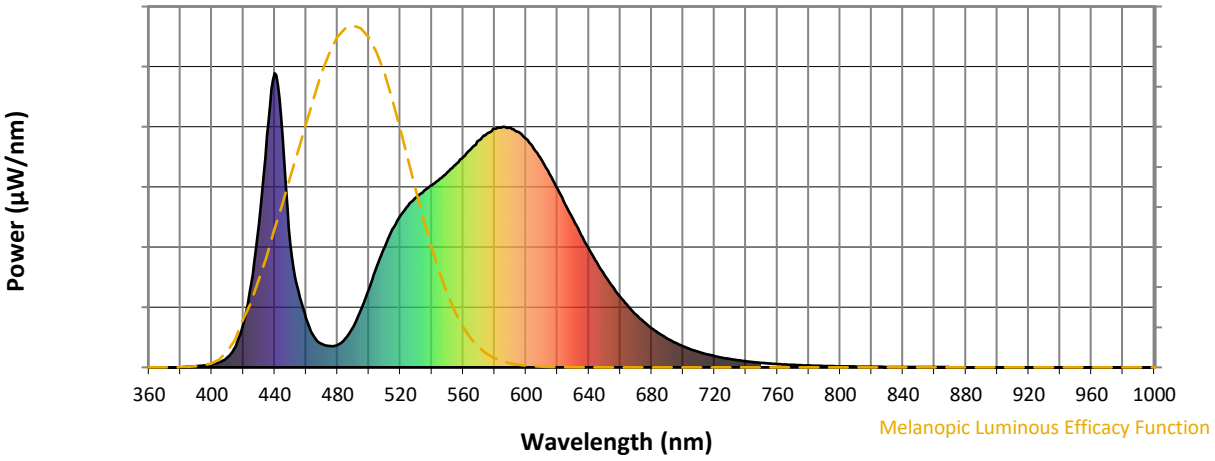


Scotopic Lumens: NR **S/P: 1.47**

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.78**

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

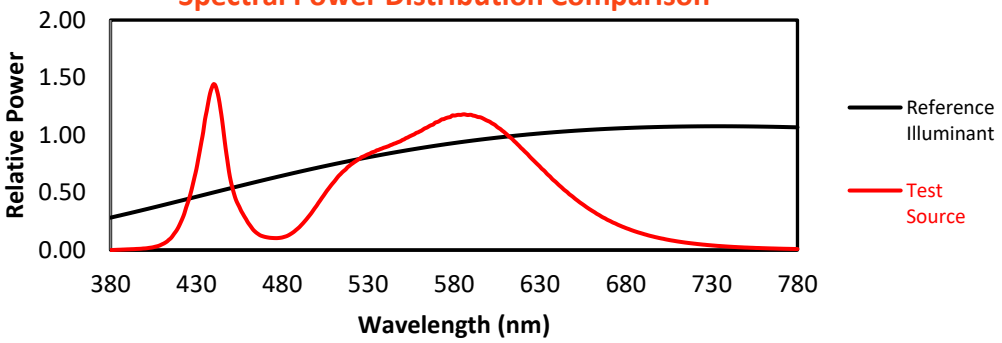
REPORT NUMBER: SP1-2407-184-1

TM-30-18

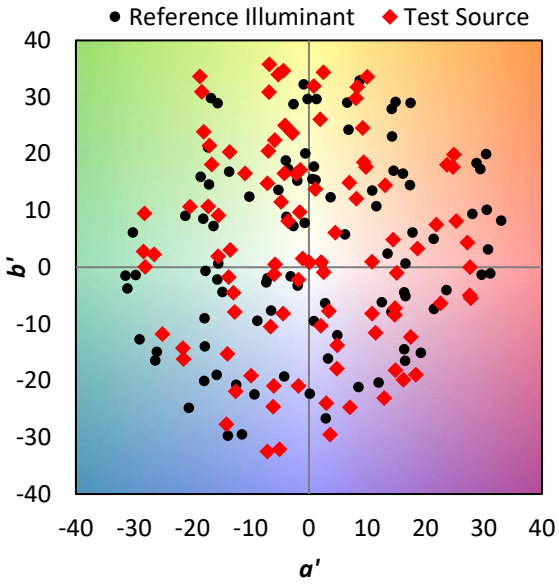
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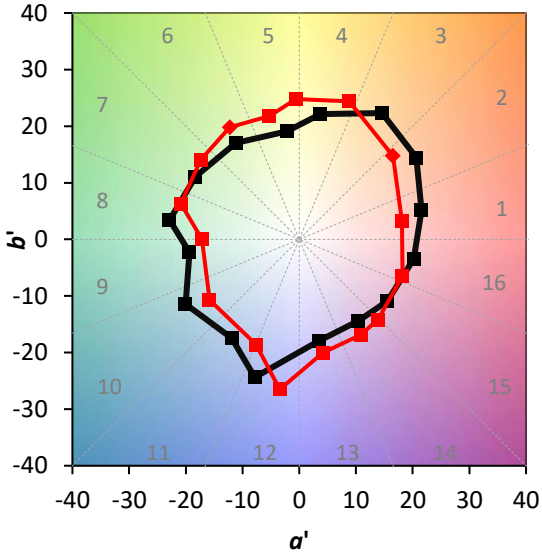
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R_g = 96.5
CIE R_a = 70.7
R_9 = -36.7

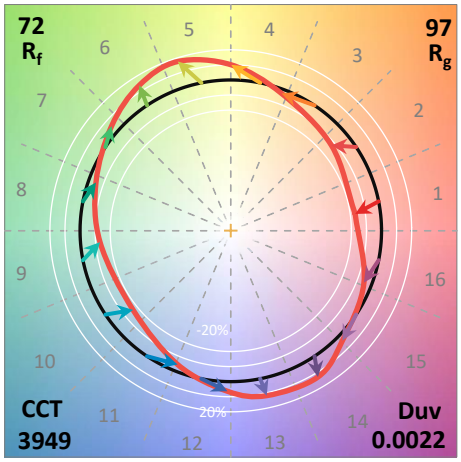
Spectral Power Distribution Comparison

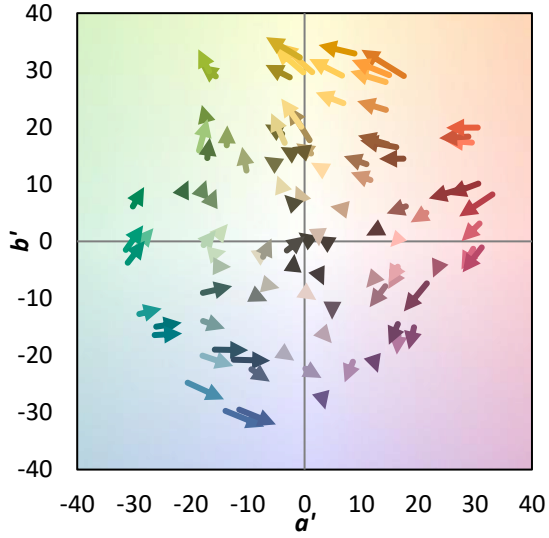


Color Vector Graphics







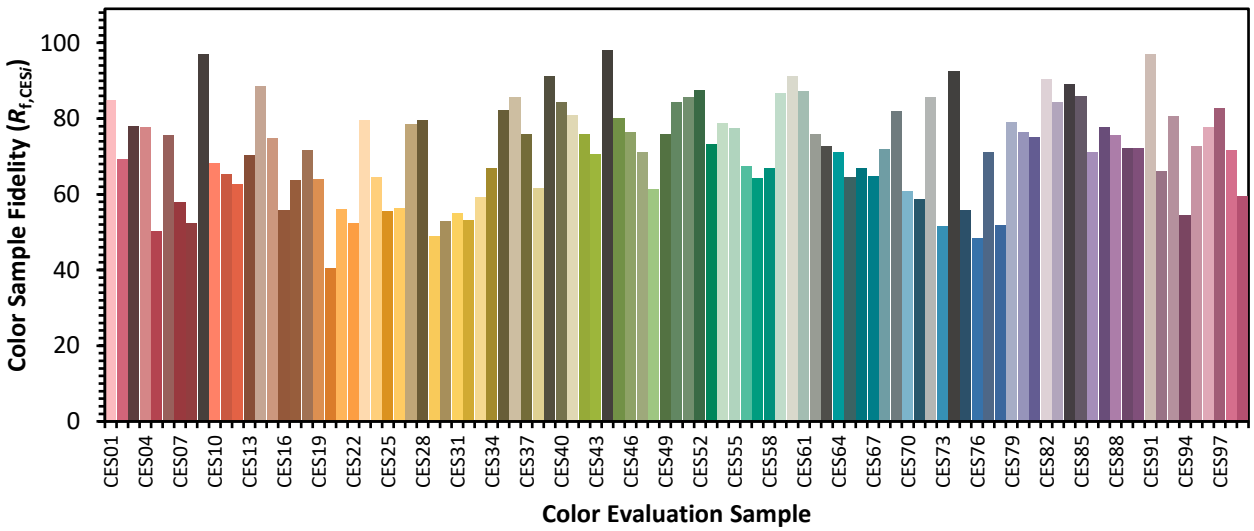


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Individual Sample Fidelity Index ($R_{f,i}$)

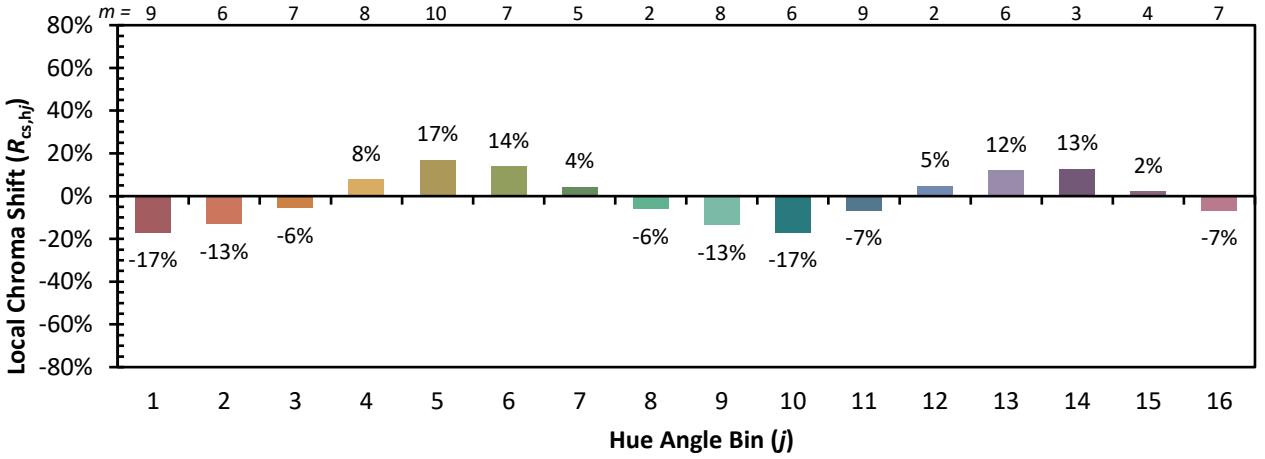
CES01 = 85	CES26 = 56	CES51 = 86	CES76 = 48
CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 64	CES82 = 90
CES08 = 39	CES33 = 59	CES58 = 67	CES83 = 84
CES09 = 29	CES34 = 67	CES59 = 87	CES84 = 89
CES10 = 74	CES35 = 82	CES60 = 91	CES85 = 86
CES11 = 57	CES36 = 86	CES61 = 87	CES86 = 71
CES12 = 63	CES37 = 76	CES62 = 76	CES87 = 78
CES13 = 42	CES38 = 62	CES63 = 73	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 71	CES89 = 72
CES15 = 71	CES40 = 84	CES65 = 64	CES90 = 72
CES16 = 46	CES41 = 81	CES66 = 67	CES91 = 97
CES17 = 49	CES42 = 76	CES67 = 65	CES92 = 66
CES18 = 56	CES43 = 71	CES68 = 72	CES93 = 81
CES19 = 72	CES44 = 98	CES69 = 82	CES94 = 55
CES20 = 65	CES45 = 80	CES70 = 61	CES95 = 73
CES21 = 86	CES46 = 76	CES71 = 59	CES96 = 78
CES22 = 78	CES47 = 71	CES72 = 86	CES97 = 83
CES23 = 92	CES48 = 61	CES73 = 52	CES98 = 72
CES24 = 91	CES49 = 76	CES74 = 93	CES99 = 60
CES25 = 72	CES50 = 84	CES75 = 56	

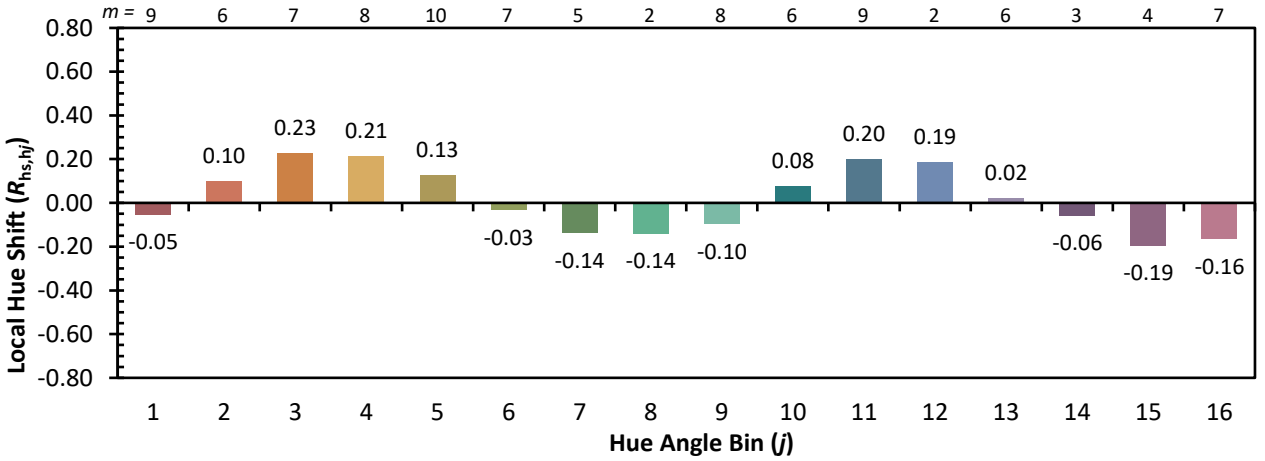


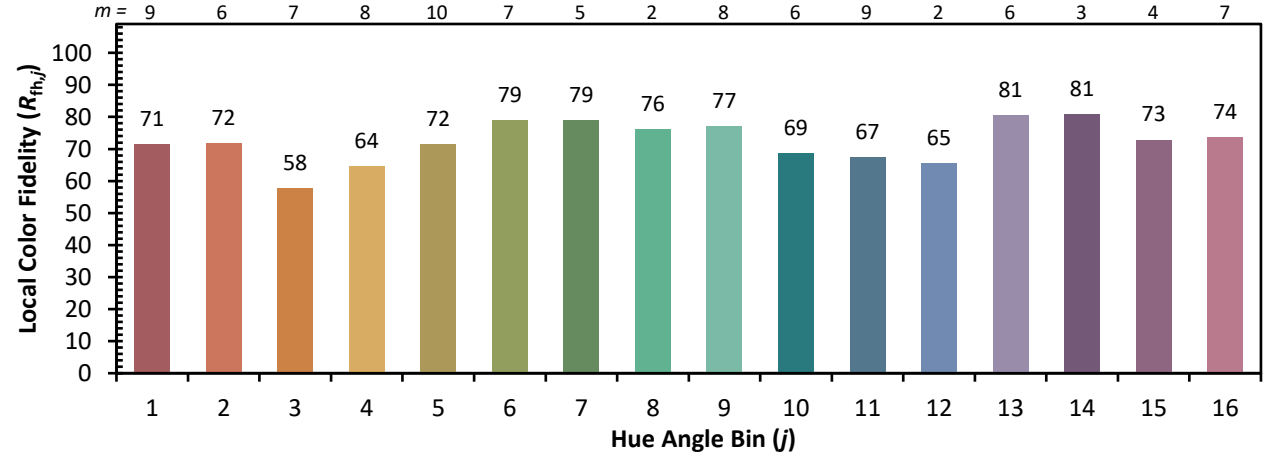
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Color Rendition by Hue-Angle Bin



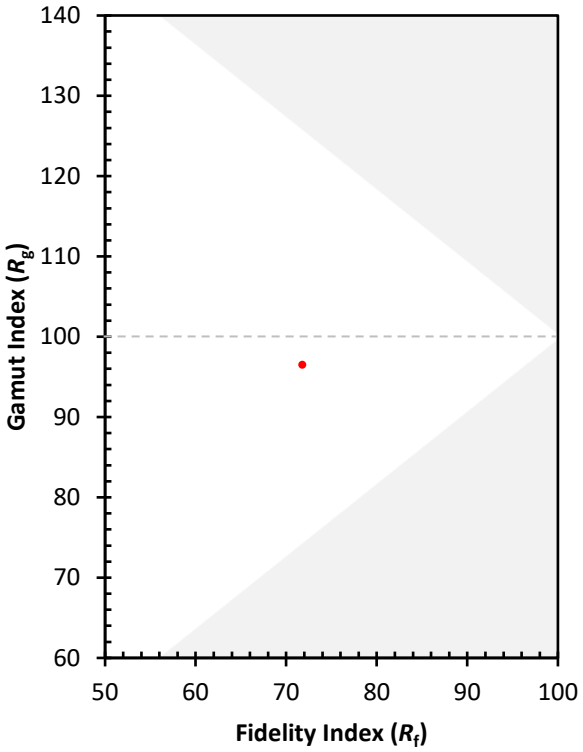


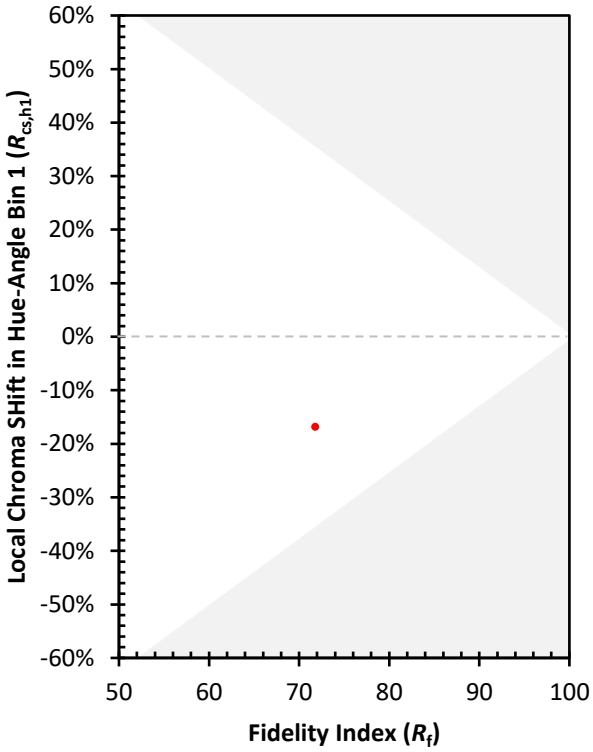


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Measure Comparisons





(END OF REPORT)