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: P1501517

Luminaire Tested: GSS-SB1A-830-U-T2LG

Issue Date: 07/20/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501517
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB1A-830-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 1SQUARE 31W 80CRI 3000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(26) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3645.9 lumens
Efficiency:	N/A
Efficacy:	117.6 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G1

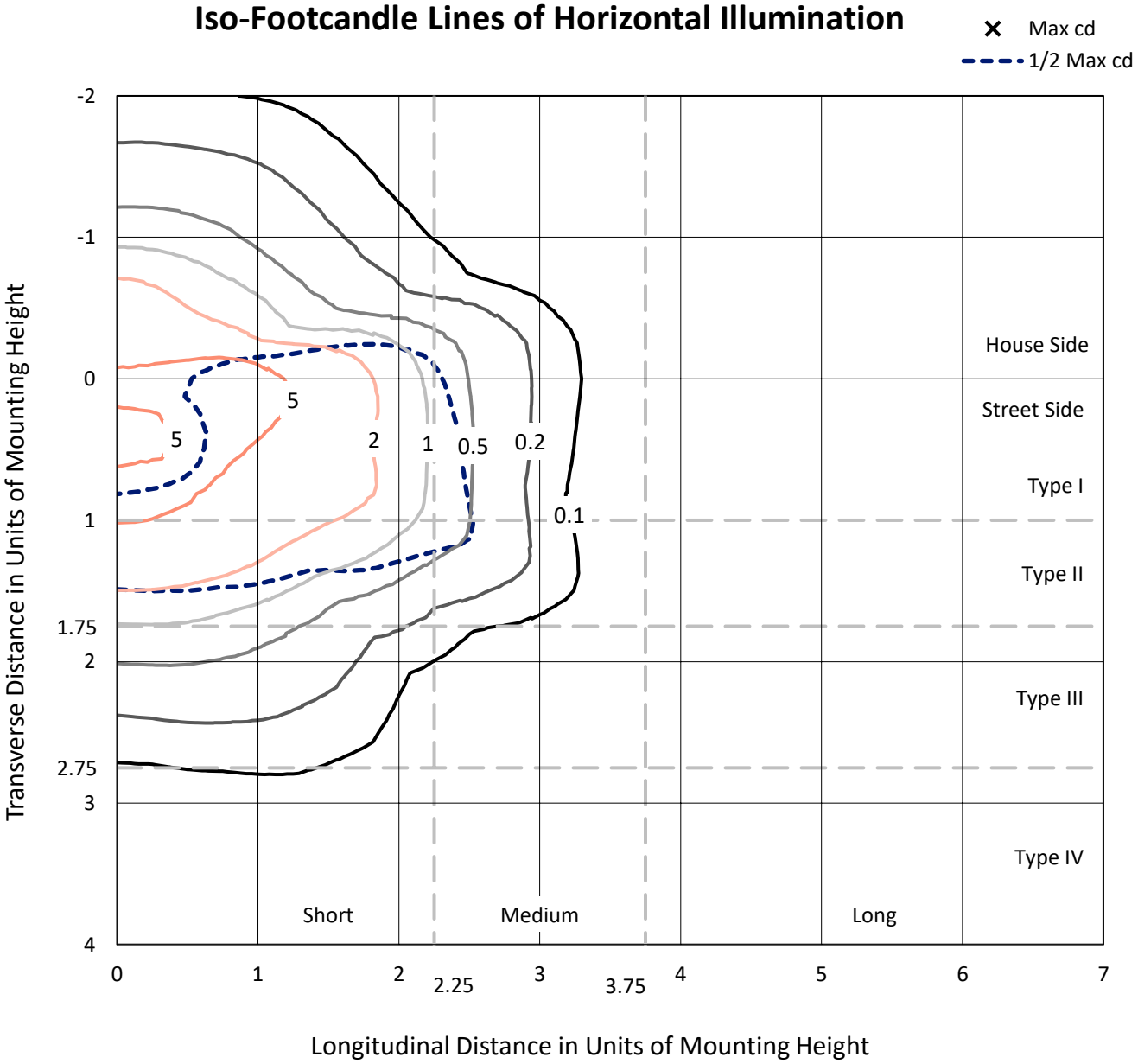
Input Watts (W):	31
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	6.4%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



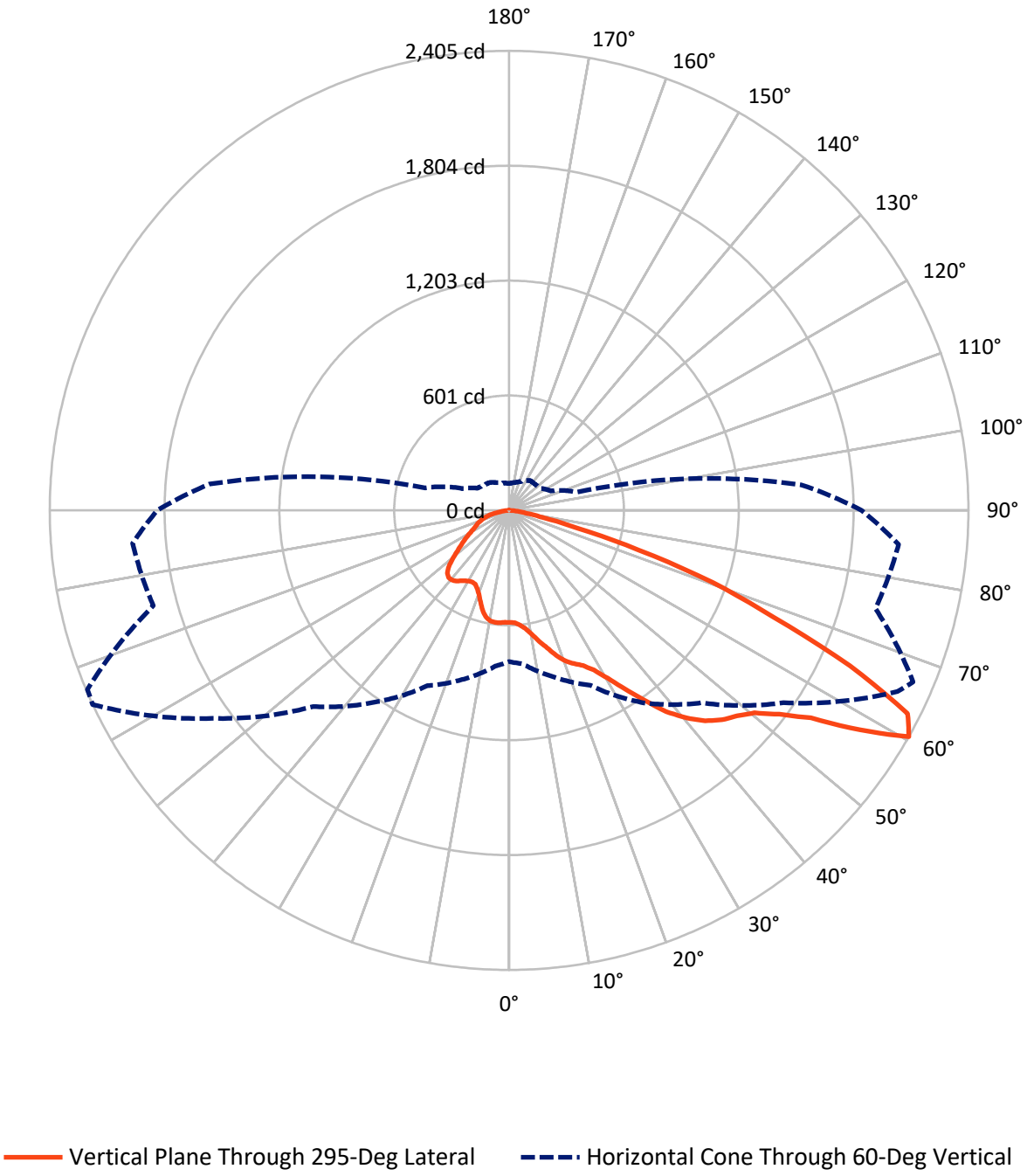
Based on 10 foot mounting height. Maximum calculated value = 8.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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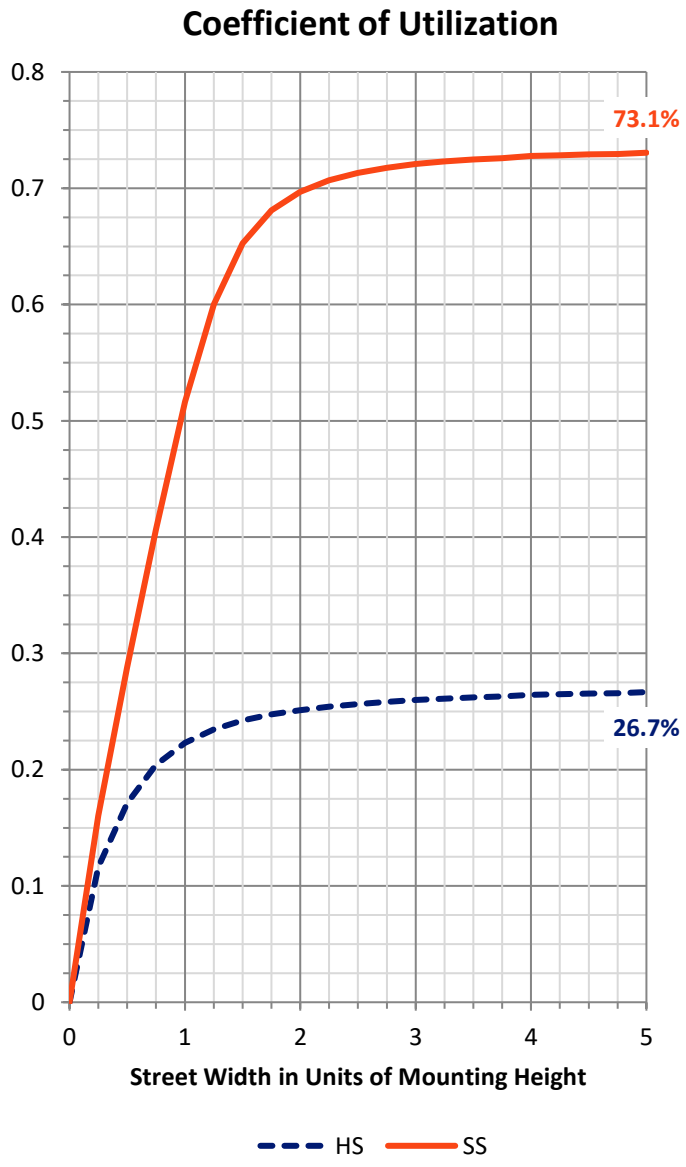
REPORT NUMBER: P1501517
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	980.4	0.0	980.4
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	2665.4	0.0	2665.4
	% Fixture	73.1	0.0	73.1
Total	Lumens	3645.9	0.0	3645.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.2	1.5
10°-20°	158.6	4.3
20°-30°	300.3	8.2
30°-40°	529.5	14.5
40°-50°	783.0	21.5
50°-60°	919.5	25.2
60°-70°	666.2	18.3
70°-80°	205.4	5.6
80°-90°	28.3	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°	3645.9	100.0
0°-180°	3645.9	100.0



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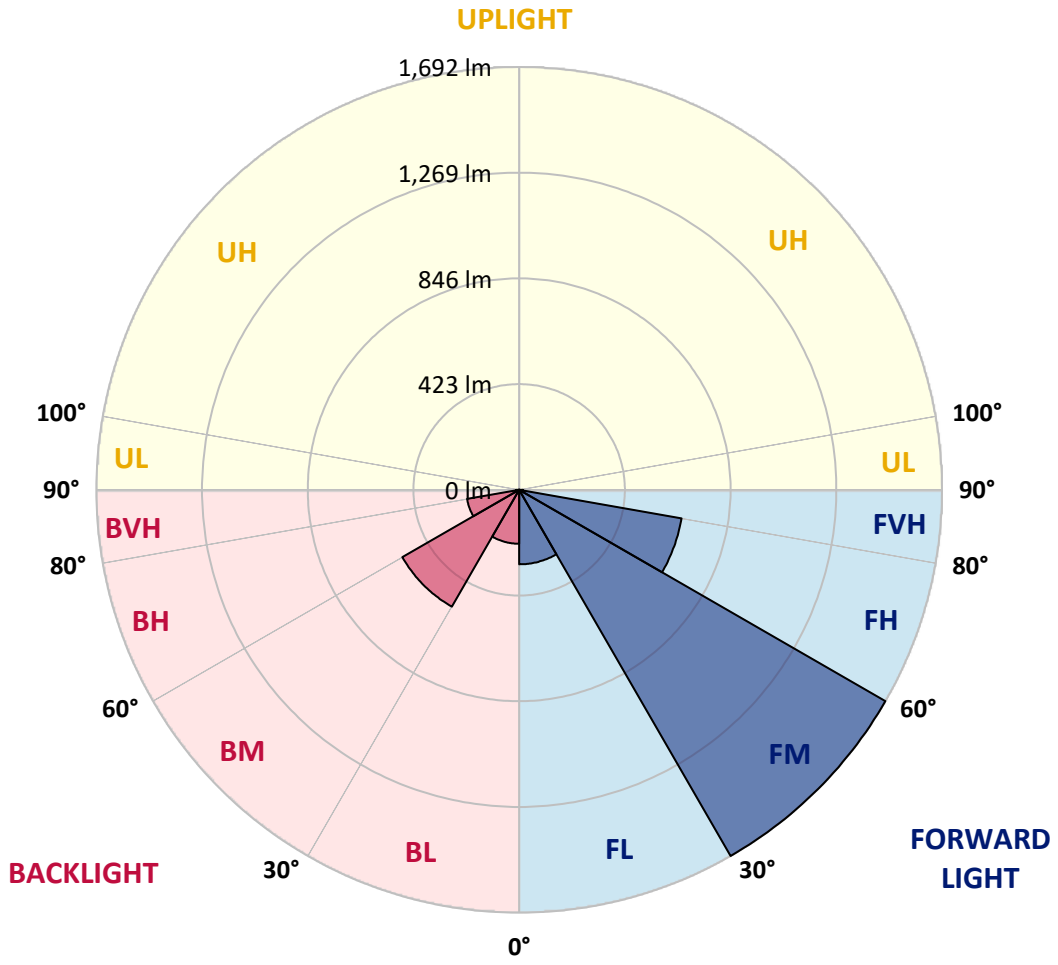
Scaled Data Report

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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°)	298.1	8.2			
FM	(30°-60°)	1692.1	46.4			
FH	(60°-80°)	660.0	18.1			G1/1800
FVH	(80°-90°)	15.3	0.4			G1/100
BL	(0°-30°)	215.9	5.9	B1/500		
BM	(30°-60°)	539.8	14.8	B1/1000		
BH	(60°-80°)	211.6	5.8	B1/500		G1/500
BVH	(80°-90°)	13.0	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6
2.5°	598.2	599.9	597.4	599.1	599.1	596.6	595.7	592.4	594.1	593.3	592.4
5°	612.4	613.2	611.5	614.0	614.0	614.9	614.0	609.9	609.9	609.9	608.2
7.5°	608.2	608.2	609.0	617.3	625.7	636.5	636.5	634.8	636.5	635.6	628.1
10°	573.3	576.6	584.1	604.9	624.8	648.1	663.9	668.9	668.9	669.7	657.2
12.5°	511.0	513.5	530.9	562.5	604.1	646.4	684.6	709.6	712.1	716.2	699.6
15°	455.3	457.0	469.4	501.9	549.2	624.0	696.3	747.8	756.1	773.6	748.6
17.5°	460.3	459.5	462.8	475.3	509.3	587.4	693.8	792.7	807.6	838.4	816.8
20°	490.2	490.2	492.7	495.2	507.7	560.8	675.5	829.2	858.3	918.1	893.2
22.5°	537.6	537.6	536.8	540.9	540.9	572.5	676.3	856.6	899.8	1007.0	982.9
25°	603.2	599.9	599.9	601.6	594.1	616.5	697.1	884.9	941.4	1112.6	1091.8
27.5°	677.2	679.7	678.0	672.2	662.2	679.7	747.0	928.9	987.9	1223.9	1215.6
30°	757.8	758.6	760.3	756.9	748.6	761.1	825.1	995.4	1049.4	1340.2	1358.5
32.5°	836.7	848.3	844.2	835.9	839.2	861.6	921.4	1085.1	1140.8	1448.2	1513.0
35°	937.2	941.4	958.0	927.3	928.1	966.3	1044.4	1203.1	1257.1	1560.4	1667.6
37.5°	1083.5	1090.9	1083.5	1035.3	1027.8	1081.0	1164.1	1319.4	1358.5	1645.1	1811.3
40°	1227.2	1236.4	1248.8	1192.3	1145.0	1189.0	1277.1	1408.3	1449.1	1691.7	1906.9
42.5°	1346.0	1361.0	1347.7	1331.1	1287.9	1296.2	1356.0	1477.3	1518.0	1750.7	2003.3
45°	1446.6	1449.1	1454.9	1443.2	1421.6	1414.2	1423.3	1538.0	1582.8	1777.3	2050.6
47.5°	1488.1	1498.9	1503.9	1523.8	1546.3	1531.3	1480.6	1566.2	1606.9	1775.6	2065.6
50°	1465.7	1476.5	1503.1	1550.4	1604.4	1631.0	1547.9	1605.3	1651.0	1805.5	2096.3
52.5°	1406.7	1418.3	1461.5	1515.5	1606.1	1666.8	1642.7	1686.7	1730.7	1858.7	2147.8
55°	1263.8	1281.2	1341.9	1431.6	1556.2	1647.6	1742.4	1806.3	1854.5	1922.7	2201.0
57.5°	1056.1	1074.3	1142.5	1277.1	1464.0	1568.7	1771.4	2030.7	2052.3	1999.1	2206.0
60°	*791.0*	*806.0*	*902.3*	*1010.4*	*1229.7*	*1424.1*	*1754.8*	*2243.4*	*2298.2*	*1985.8*	*2047.3*
62.5°	626.5	644.8	730.3	780.2	937.2	1176.5	1696.7	2302.4	2349.7	1876.1	1826.3
65°	489.4	501.9	581.6	653.1	691.3	803.5	1454.0	2014.1	2056.4	1697.5	1507.2
67.5°	323.2	342.3	437.0	535.1	555.0	511.0	1000.4	1549.6	1569.5	1349.4	1133.3
70°	231.8	241.0	311.6	416.3	446.2	342.3	545.1	1173.2	1179.0	905.7	763.6
72.5°	157.9	159.5	211.9	319.1	355.6	248.4	299.9	772.7	752.8	447.0	437.0
75°	107.2	108.8	135.4	212.7	251.8	172.8	195.3	421.3	404.6	246.8	265.1
77.5°	72.3	73.9	93.1	142.9	167.8	119.6	142.9	222.7	218.5	163.7	142.1
80°	54.8	57.3	69.0	91.4	117.2	69.8	81.4	105.5	107.2	87.2	72.3
82.5°	30.7	34.1	41.5	46.5	75.6	39.1	39.1	63.1	60.7	54.0	39.1
85°	13.3	14.1	16.6	17.4	30.7	16.6	14.1	27.4	28.3	26.6	12.5
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.3	3.3	3.3	3.3
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°	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6
2.5°	588.3	593.3	588.3	585.8	585.8	581.6	580.0	580.0	574.1	576.6	575.0
5°	601.6	603.2	597.4	589.9	580.0	571.6	560.0	545.1	535.9	535.1	535.9
7.5°	622.3	623.2	607.4	590.8	565.8	535.9	500.2	471.1	445.4	441.2	446.2
10°	651.4	649.8	626.5	587.4	535.1	471.9	417.1	390.5	375.6	374.7	373.9
12.5°	690.5	679.7	643.9	573.3	481.9	408.8	380.5	378.9	383.0	386.4	387.2
15°	735.3	721.2	658.1	545.9	427.9	385.5	387.2	401.3	406.3	409.6	409.6
17.5°	791.0	772.7	673.8	506.8	400.5	390.5	402.1	415.4	423.8	427.1	426.2
20°	864.9	826.7	686.3	469.4	393.0	398.8	408.8	422.1	430.4	434.6	434.6
22.5°	938.9	891.5	688.8	443.7	393.0	399.7	408.8	422.1	431.2	435.4	434.6
25°	1039.4	974.6	689.6	425.4	393.8	395.5	403.8	415.4	428.7	432.9	434.6
27.5°	1146.6	1066.0	693.8	421.3	390.5	389.7	395.5	406.3	419.6	430.4	431.2
30°	1279.6	1169.1	695.4	425.4	391.3	380.5	384.7	395.5	409.6	420.4	423.8
32.5°	1410.0	1264.6	692.1	434.6	393.0	374.7	375.6	382.2	397.2	404.6	410.5
35°	1547.9	1366.0	686.3	447.0	393.8	372.2	364.8	368.1	378.1	378.9	381.4
37.5°	1656.0	1441.6	668.9	463.6	395.5	363.1	348.1	345.6	341.5	333.2	334.8
40°	1744.9	1492.3	639.8	471.9	391.3	352.3	327.4	315.7	299.9	287.5	290.0
42.5°	1808.8	1526.3	604.9	473.6	384.7	334.0	303.3	283.3	265.9	252.6	253.4
45°	1837.1	1523.0	567.5	461.1	368.9	311.6	280.8	261.7	242.6	228.5	226.8
47.5°	1837.9	1490.6	516.0	431.2	342.3	285.8	260.1	239.3	223.5	213.5	212.7
50°	1844.6	1472.3	467.8	388.0	307.4	258.4	241.8	221.0	211.9	197.8	193.6
52.5°	1886.1	1502.2	434.6	340.7	275.0	238.5	226.0	207.7	192.8	183.6	182.8
55°	1953.4	1553.8	416.3	304.9	244.3	219.4	211.0	195.3	182.0	172.8	170.3
57.5°	1961.7	1580.3	394.7	271.7	219.4	204.4	201.1	183.6	164.5	157.9	155.4
60°	*1845.4*	*1535.5*	*368.1*	*241.0*	*201.1*	*192.8*	*191.1*	*167.8*	*152.1*	*143.7*	*140.4*
62.5°	1686.7	1423.3	327.4	212.7	186.9	181.1	174.5	156.2	136.3	127.1	124.6
65°	1378.4	1196.5	278.3	193.6	172.8	166.2	164.5	139.6	126.3	121.3	120.5
67.5°	1044.4	961.3	245.1	179.5	157.9	155.4	149.6	141.3	135.4	129.6	128.0
70°	738.7	693.8	208.6	161.2	142.9	138.8	162.9	153.7	132.9	125.5	124.6
72.5°	447.8	435.4	180.3	144.6	123.0	129.6	150.4	138.8	119.6	110.5	107.2
75°	282.5	258.4	151.2	123.0	98.0	105.5	131.3	123.8	103.0	93.9	91.4
77.5°	153.7	142.9	113.8	100.5	77.3	85.6	114.7	102.2	82.3	89.7	79.8
80°	67.3	74.8	75.6	58.2	51.5	63.1	82.3	79.8	63.1	64.0	53.2
82.5°	32.4	42.4	49.0	39.9	29.1	37.4	54.8	45.7	42.4	39.9	38.2
85°	10.0	15.8	21.6	19.1	13.3	15.8	25.8	24.9	29.9	25.8	24.1
87.5°	3.3	3.3	2.5	2.5	2.5	3.3	4.2	2.5	0.8	0.8	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6	586.6
2.5°	574.1	575.0	575.0	575.8	575.8	578.3	581.6	584.9	582.4	585.8	586.6
5°	534.3	538.4	541.7	554.2	564.2	572.5	581.6	589.9	592.4	594.1	598.2
7.5°	440.4	452.0	473.6	501.9	533.4	564.2	584.9	606.5	609.9	614.0	619.8
10°	374.7	379.7	394.7	423.8	480.3	540.9	591.6	625.7	639.8	648.1	653.9
12.5°	385.5	382.2	379.7	383.9	420.4	498.5	587.4	653.1	679.7	688.8	696.3
15°	411.3	408.0	398.8	387.2	391.3	453.7	573.3	678.8	721.2	736.2	751.9
17.5°	426.2	422.9	415.4	403.0	392.2	416.3	546.7	702.1	786.8	805.1	827.6
20°	434.6	431.2	423.8	411.3	398.8	402.1	512.7	731.2	861.6	890.7	923.9
22.5°	436.2	432.1	423.8	411.3	403.8	401.3	480.3	748.6	942.2	987.1	1025.3
25°	435.4	427.9	417.1	408.0	403.8	403.0	457.8	758.6	1029.5	1100.9	1144.1
27.5°	429.6	420.4	409.6	403.0	401.3	406.3	447.8	770.2	1131.7	1223.1	1292.0
30°	422.9	409.6	396.3	393.8	398.0	413.8	456.2	774.4	1238.8	1356.0	1426.6
32.5°	405.5	395.5	382.2	381.4	391.3	419.6	475.3	768.6	1333.6	1488.9	1577.8
35°	380.5	374.7	367.3	369.7	385.5	424.6	488.6	750.3	1420.0	1612.7	1716.6
37.5°	336.5	340.7	344.8	350.6	370.6	423.8	494.4	721.2	1491.4	1711.6	1844.6
40°	287.5	301.6	314.9	329.9	356.4	417.1	496.0	685.5	1533.0	1786.4	1958.4
42.5°	256.7	270.0	286.7	308.3	337.3	402.1	494.4	645.6	1546.3	1837.9	2030.7
45°	228.5	244.3	265.1	287.5	320.7	380.5	479.4	602.4	1552.9	1862.0	2061.4
47.5°	213.5	222.7	241.8	264.2	299.1	354.0	450.3	570.8	1543.0	1867.0	2098.8
50°	196.1	208.6	221.0	242.6	276.7	320.7	415.4	552.5	1559.6	1916.0	2157.8
52.5°	182.8	189.4	202.7	222.7	247.6	290.0	382.2	537.6	1605.3	1965.9	2219.3
55°	172.8	180.3	188.6	205.2	224.3	259.2	348.1	515.1	1658.4	2019.0	2280.8
57.5°	157.0	162.0	173.7	191.1	203.6	229.3	308.3	488.6	1654.3	1977.5	2174.4
60°	*142.9*	*147.9*	*160.4*	*177.8*	*185.3*	*202.7*	*269.2*	*454.5*	*1574.5*	*1842.1*	*1978.3*
62.5°	127.1	132.9	147.9	160.4	167.0	180.3	228.5	392.2	1408.3	1638.5	1749.0
65°	120.5	123.8	133.8	148.7	147.9	160.4	192.8	308.3	1133.3	1252.1	1352.7
67.5°	128.0	132.9	131.3	135.4	132.9	139.6	172.8	247.6	890.7	943.1	1001.2
70°	126.3	137.9	143.7	135.4	116.3	123.8	149.6	197.8	637.3	632.3	629.8
72.5°	110.5	122.1	138.8	147.1	113.8	103.0	129.6	171.2	408.8	407.1	368.1
75°	93.9	102.2	122.1	132.9	98.0	83.1	111.3	145.4	244.3	247.6	221.0
77.5°	86.4	82.3	102.2	117.2	79.8	64.0	89.7	109.7	134.6	136.3	126.3
80°	62.3	59.8	76.4	85.6	60.7	45.7	50.7	68.1	72.3	64.8	67.3
82.5°	39.9	40.7	45.7	54.8	37.4	24.9	34.9	45.7	39.1	31.6	37.4
85°	25.8	29.1	24.1	28.3	11.6	11.6	15.0	19.9	13.3	9.1	10.0
87.5°	0.0	0.0	1.7	3.3	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: P1501517
CATALOG NUMBER: GSS-SB1A-830-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	586.6	586.6	*586.6*	586.6	586.6	586.6	586.6	586.6	586.6	586.6
2.5°	589.1	588.3	*588.3*	589.9	594.1	595.7	598.2	597.4	599.9	598.2
5°	600.7	601.6	*604.1*	604.9	607.4	610.7	611.5	610.7	612.4	612.4
7.5°	624.0	627.3	*625.7*	629.8	626.5	622.3	615.7	610.7	606.5	608.2
10°	663.0	661.4	*660.6*	653.1	638.1	616.5	599.1	580.0	576.6	573.3
12.5°	706.3	704.6	*704.6*	678.8	636.5	591.6	551.7	521.8	511.8	511.0
15°	766.9	756.1	*746.1*	692.1	607.4	530.9	484.4	461.1	455.3	455.3
17.5°	842.5	814.3	*797.6*	682.2	560.0	491.1	463.6	457.8	456.2	460.3
20°	936.4	864.9	*840.9*	659.7	542.6	496.0	482.7	483.6	484.4	490.2
22.5°	1039.4	911.5	*871.6*	659.7	560.0	527.6	521.0	530.1	532.6	537.6
25°	1154.1	953.0	*899.0*	694.6	611.5	587.4	579.1	588.3	594.9	603.2
27.5°	1282.9	996.2	*946.4*	757.8	678.0	663.0	653.9	658.1	667.2	677.2
30°	1398.4	1068.5	*1018.7*	854.1	768.6	750.3	734.5	741.1	751.1	757.8
32.5°	1500.6	1156.6	*1114.2*	955.5	872.4	840.9	823.4	821.7	841.7	836.7
35°	1594.5	1260.4	*1219.7*	1071.0	977.9	938.9	915.6	945.5	932.3	937.2
37.5°	1668.4	1368.5	*1336.1*	1181.5	1087.6	1034.4	1020.3	1056.9	1077.7	1083.5
40°	1729.1	1462.4	*1428.3*	1291.2	1188.2	1149.1	1171.5	1232.2	1229.7	1227.2
42.5°	1775.6	1543.0	*1505.6*	1374.3	1284.5	1292.0	1309.5	1350.2	1360.2	1346.0
45°	1796.4	1593.6	*1563.7*	1439.9	1394.2	1437.4	1444.9	1462.4	1455.7	1446.6
47.5°	1820.5	1638.5	*1606.9*	1499.7	1513.0	1555.4	1540.5	1526.3	1502.2	1488.1
50°	1861.2	1691.7	*1665.1*	1587.0	1635.2	1621.1	1562.9	1531.3	1482.3	1465.7
52.5°	1938.5	1792.2	*1772.3*	1724.9	1692.5	1611.1	1540.5	1484.0	1429.1	1406.7
55°	2007.4	1928.5	*1916.8*	1853.7	1675.1	1558.7	1464.0	1376.8	1282.9	1263.8
57.5°	2047.3	2154.5	*2167.8*	1908.5	1595.3	1439.9	1300.3	1160.7	1071.8	1056.1
60°	*1928.5*	*2398.8*	*2405.4*	*1897.7*	*1451.6*	*1225.6*	*1012.8*	*914.0*	*818.4*	*791.0*
62.5°	1764.8	2348.1	*2342.3*	1832.9	1155.8	894.0	769.4	722.9	648.9	626.5
65°	1517.2	1955.9	*1962.5*	1583.7	768.6	646.4	646.4	587.4	505.2	489.4
67.5°	1236.4	1508.1	*1493.1*	1027.0	471.9	517.6	542.6	457.8	342.3	323.2
70°	803.5	1151.6	*1130.8*	592.4	296.6	431.2	427.1	344.0	245.1	231.8
72.5°	345.6	665.5	*707.9*	302.4	223.5	347.3	340.7	241.0	163.7	157.9
75°	208.6	334.8	*364.8*	192.8	162.9	261.7	236.0	152.9	111.3	107.2
77.5°	132.1	183.6	*182.0*	144.6	122.1	177.0	158.7	105.5	75.6	72.3
80°	76.4	90.6	*93.9*	90.6	82.3	126.3	101.4	76.4	59.0	54.8
82.5°	49.0	56.5	*57.3*	44.0	45.7	81.4	54.8	44.9	34.1	30.7
85°	21.6	24.1	*23.3*	15.0	15.0	33.2	19.1	18.3	13.3	13.3
87.5°	0.8	1.7	*0.8*	0.8	0.8	3.3	1.7	2.5	2.5	2.5
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: SP1-2407-184-9

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-830-U-5WQ

Data in this report applies to families of products including GSS-SB1A-830-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

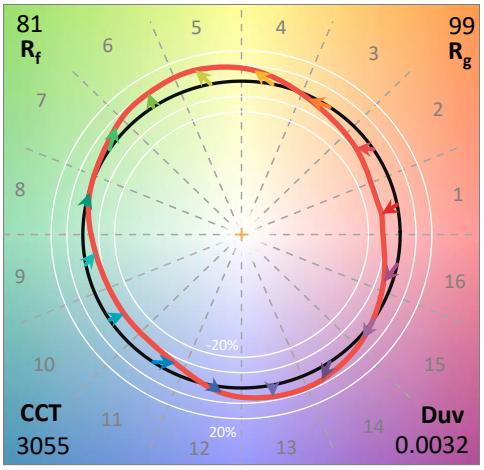
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-9
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-830-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 3000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3055
CIE u':	0.2475
CIE v':	0.5247
Duv:	0.0032
CIE x:	0.4377
CIE y:	0.4124
CIE z:	0.1499
Peak Wavelength (nm):	604
Dominant Wavelength (nm):	581
Purity:	55.16339
Rf:	81.5
Rg:	99.2

CRI (Ra):	80.9
R1:	79.5
R2:	85.6
R3:	92.1
R4:	82.4
R5:	78.9
R6:	81.7
R7:	85.1
R8:	61.9
R9:	6.8
R10:	67.1
R11:	82.5
R12:	63.4
R13:	80.2
R14:	95.1
R15:	71.7



Test Conditions

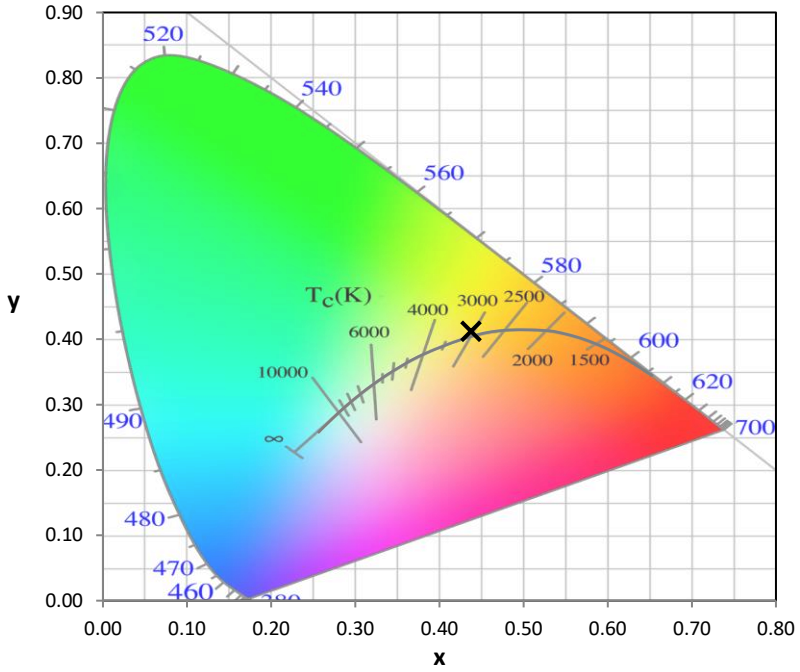
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-9

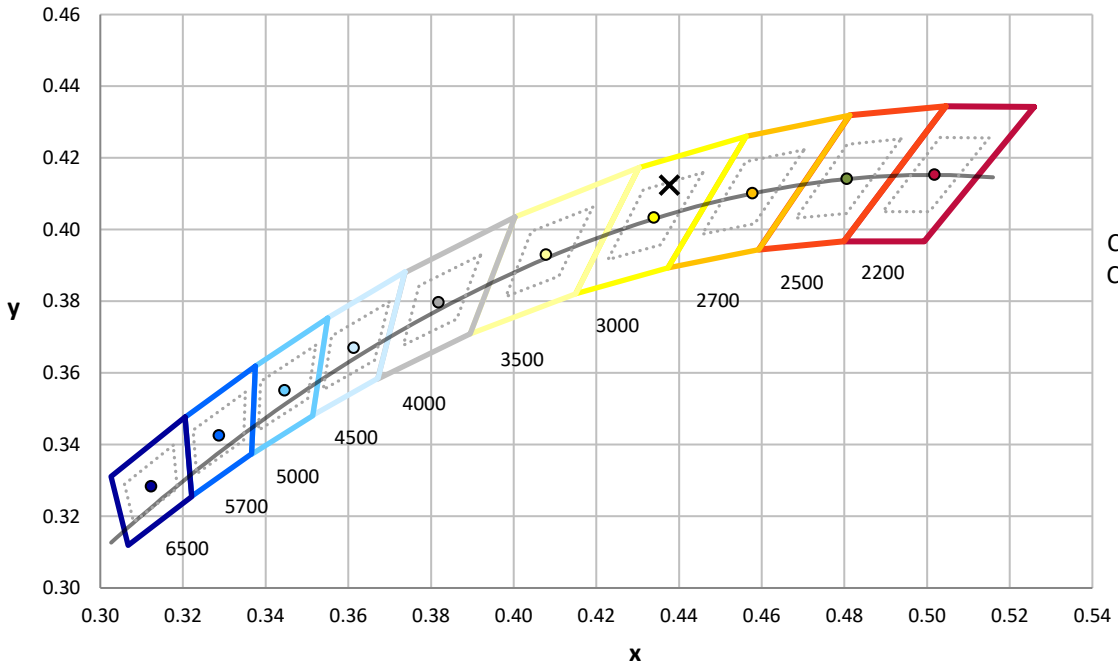
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-9

CIE 1931 Chromaticity Diagram



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

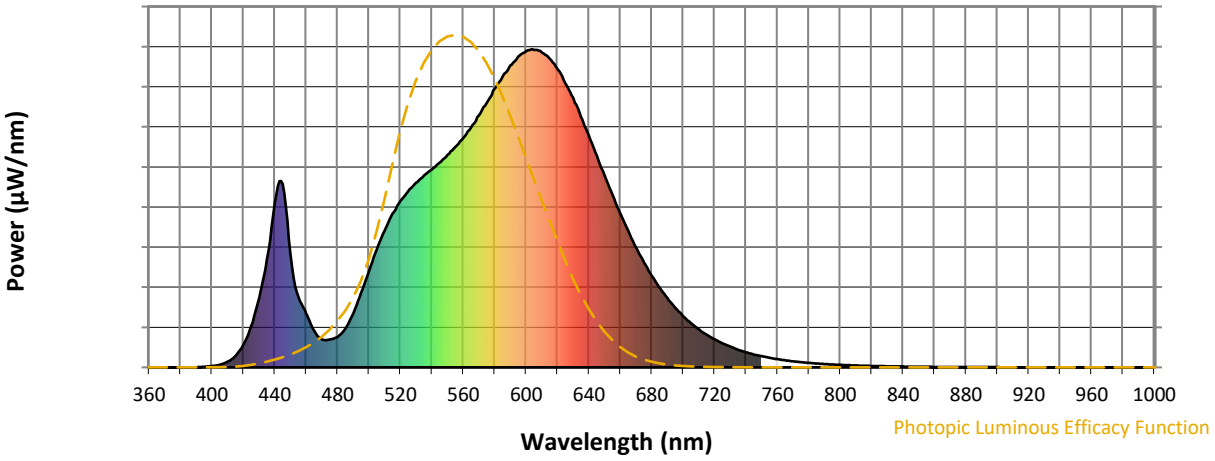


CCT = 3055K
CIE x = 0.4377
CIE y = 0.4124
Duv = 0.0032

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-9

Photopic Flux vs. Wavelength

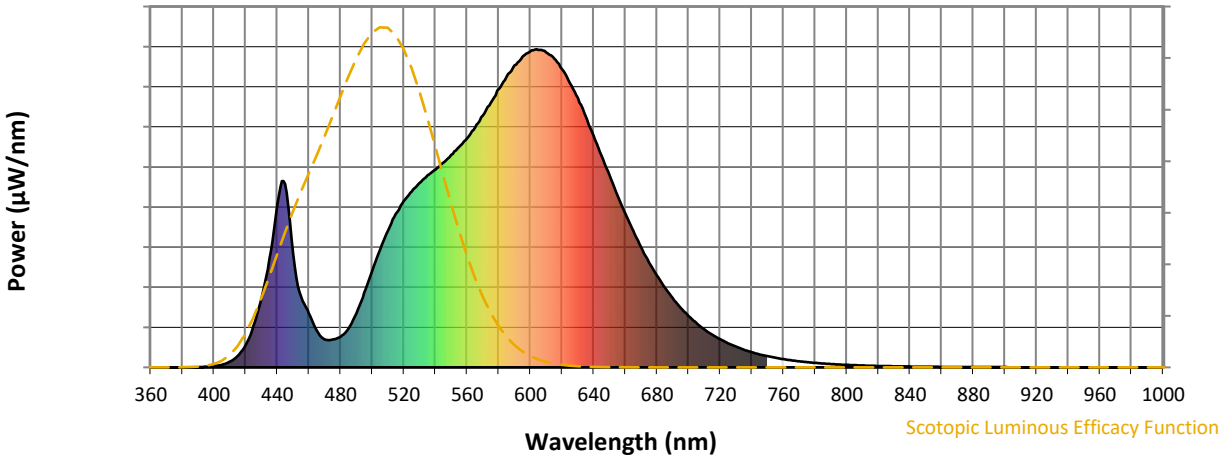


Photopic Lumens: NR

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

Scotopic Flux vs. Wavelength

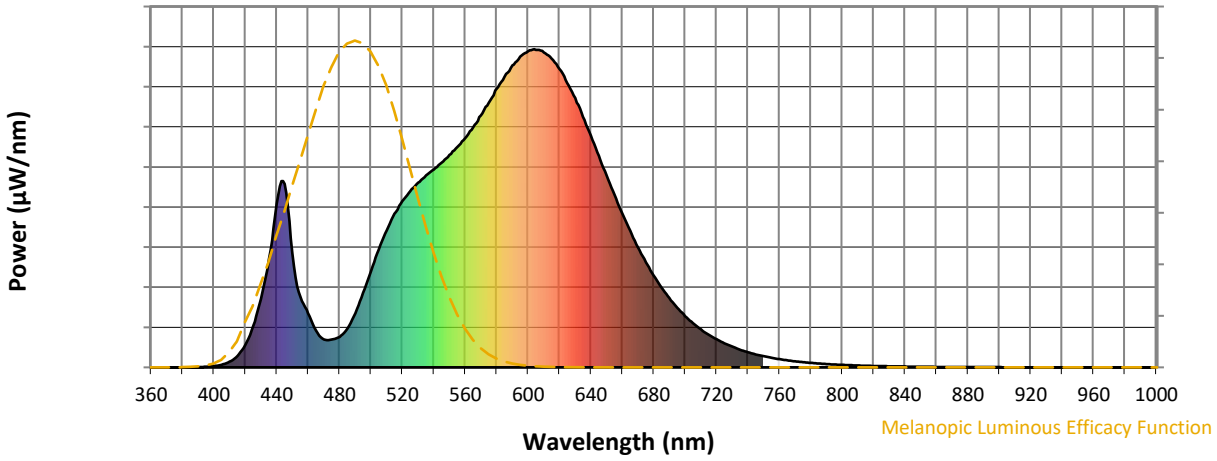


Scotopic Lumens: NR **S/P: 1.28**

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.33**

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

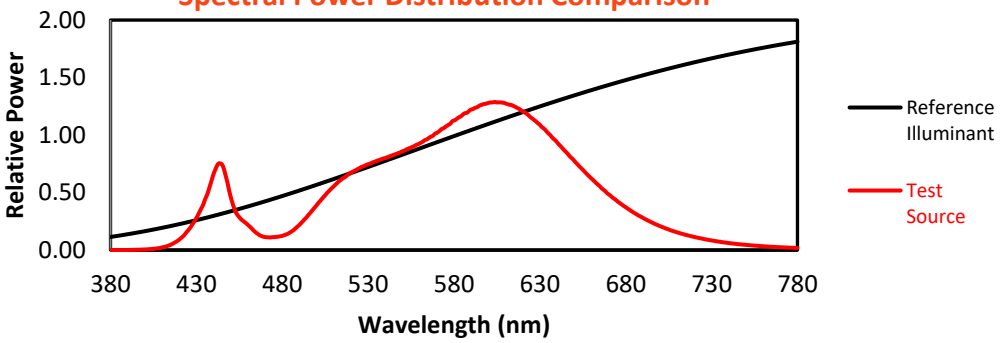
REPORT NUMBER: SP1-2407-184-9

TM-30-18

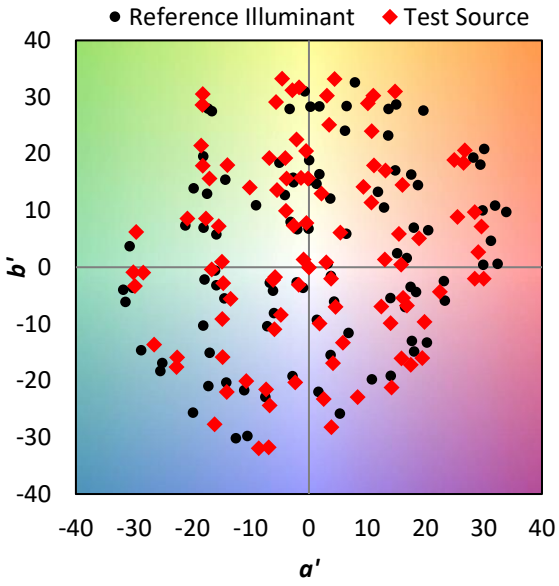
Summary

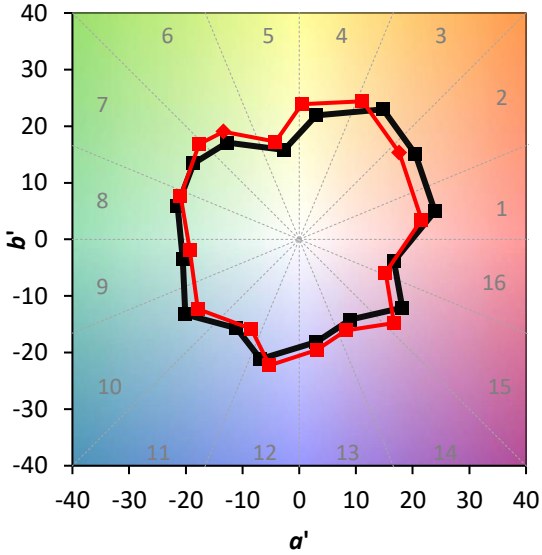
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R_g = 99.2
CIE R_a = 80.9
R_9 = 6.8

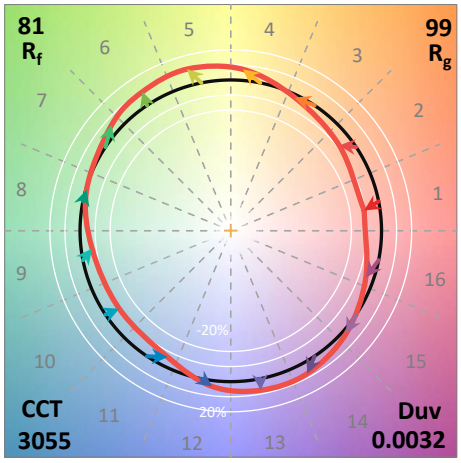
Spectral Power Distribution Comparison

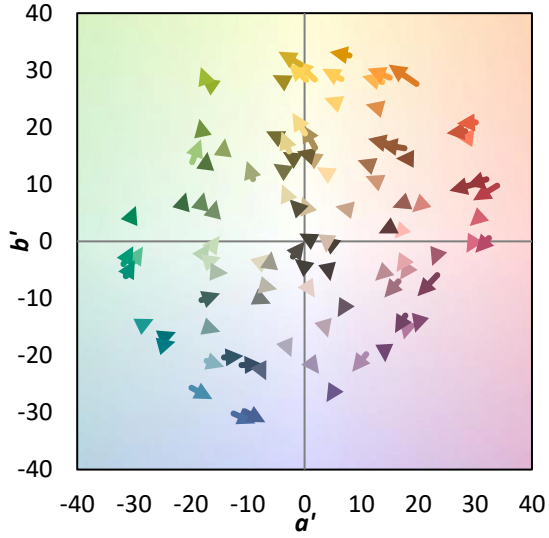


Color Vector Graphics







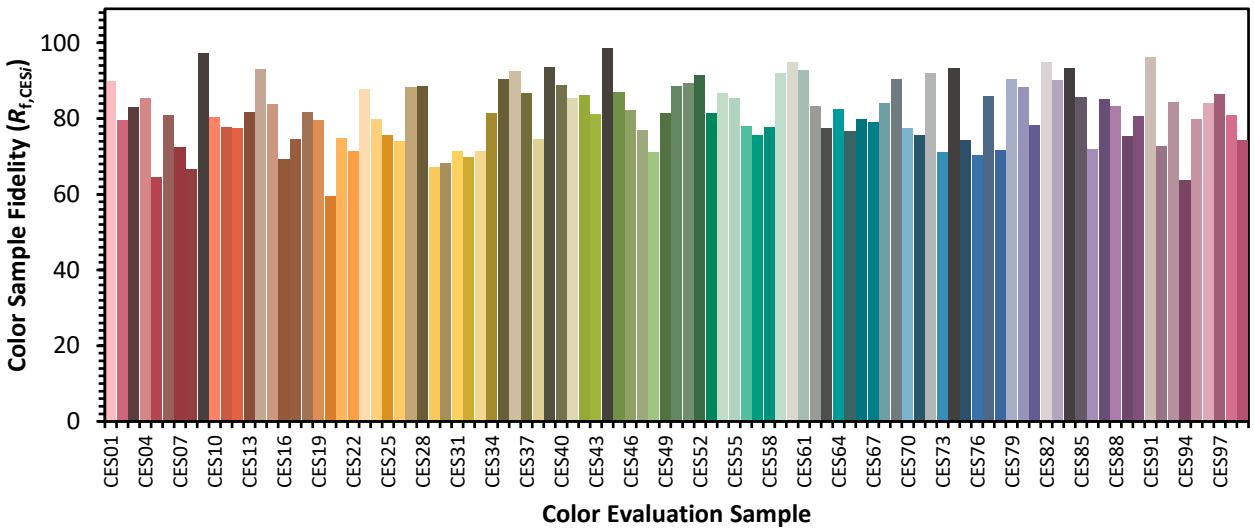


REPORT NUMBER: SP1-2407-184-9

TM-30-18

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

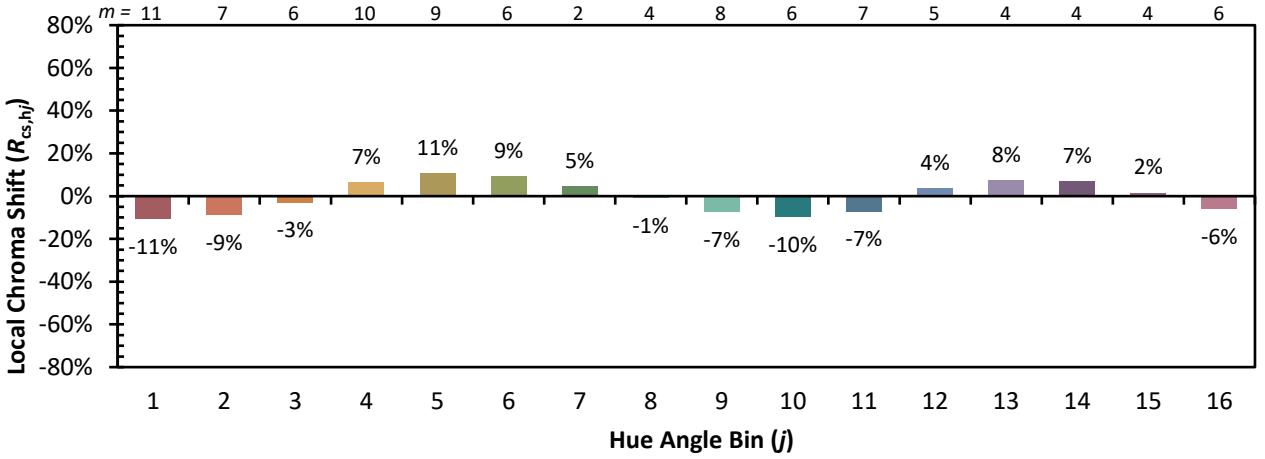
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CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 93
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 90	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 77	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	

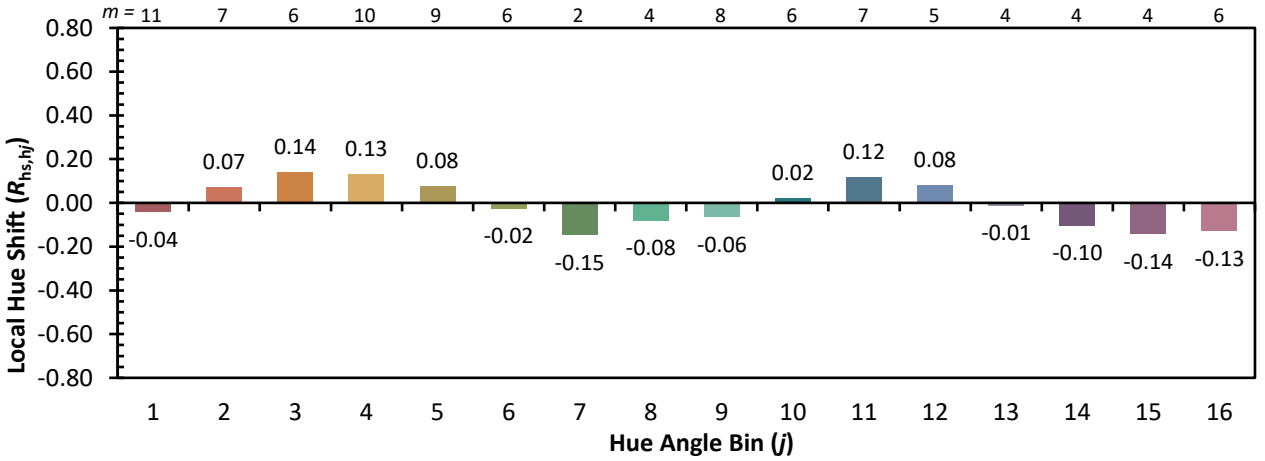


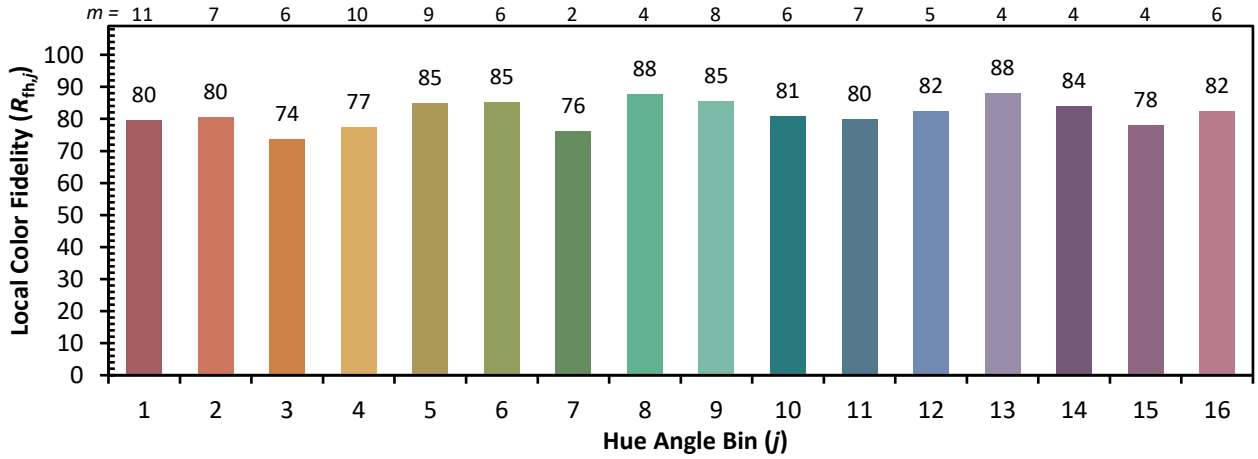
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Color Rendition by Hue-Angle Bin



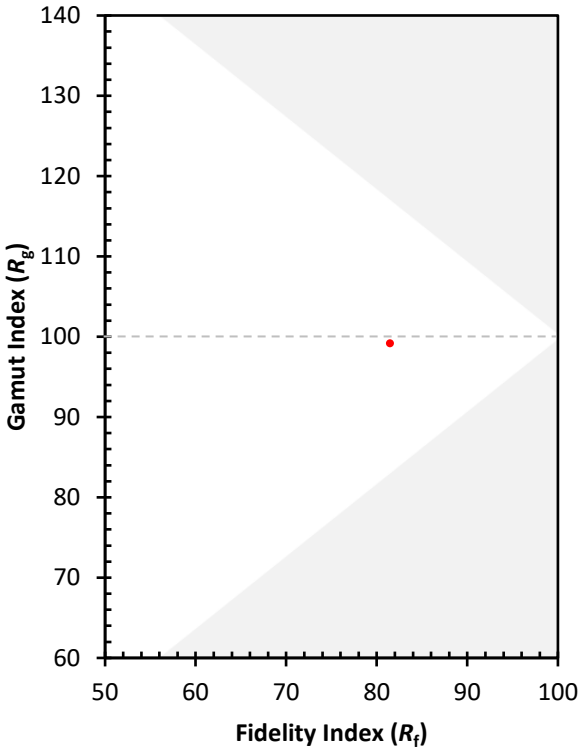


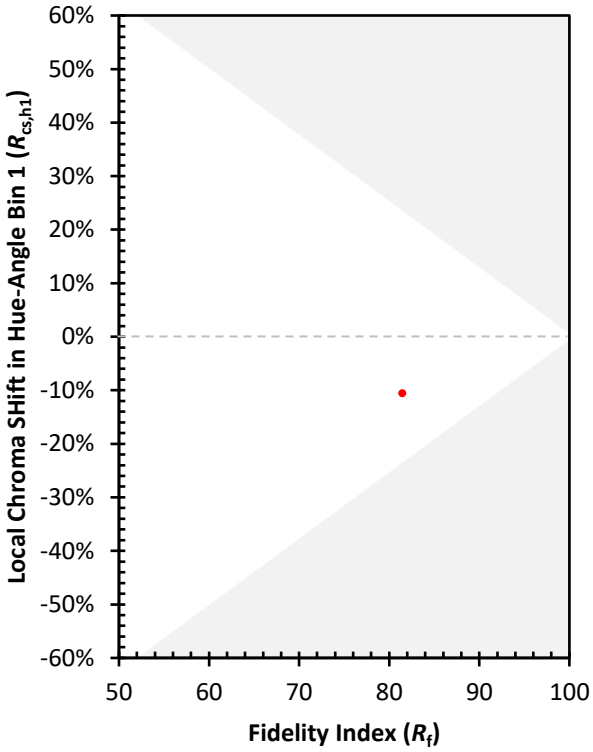


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Measure Comparisons





(END OF REPORT)