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: P1501949

Luminaire Tested: GSS-SB1A-840-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:	P1501949
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB1A-840-U-T2LG-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 1SQUARE 31W 80CRI 4000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE W/ HOUSE SIDE SHIELD
Light Source:	(26) 4000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3159.6 lumens
Efficiency:	N/A
Efficacy:	101.9 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G0

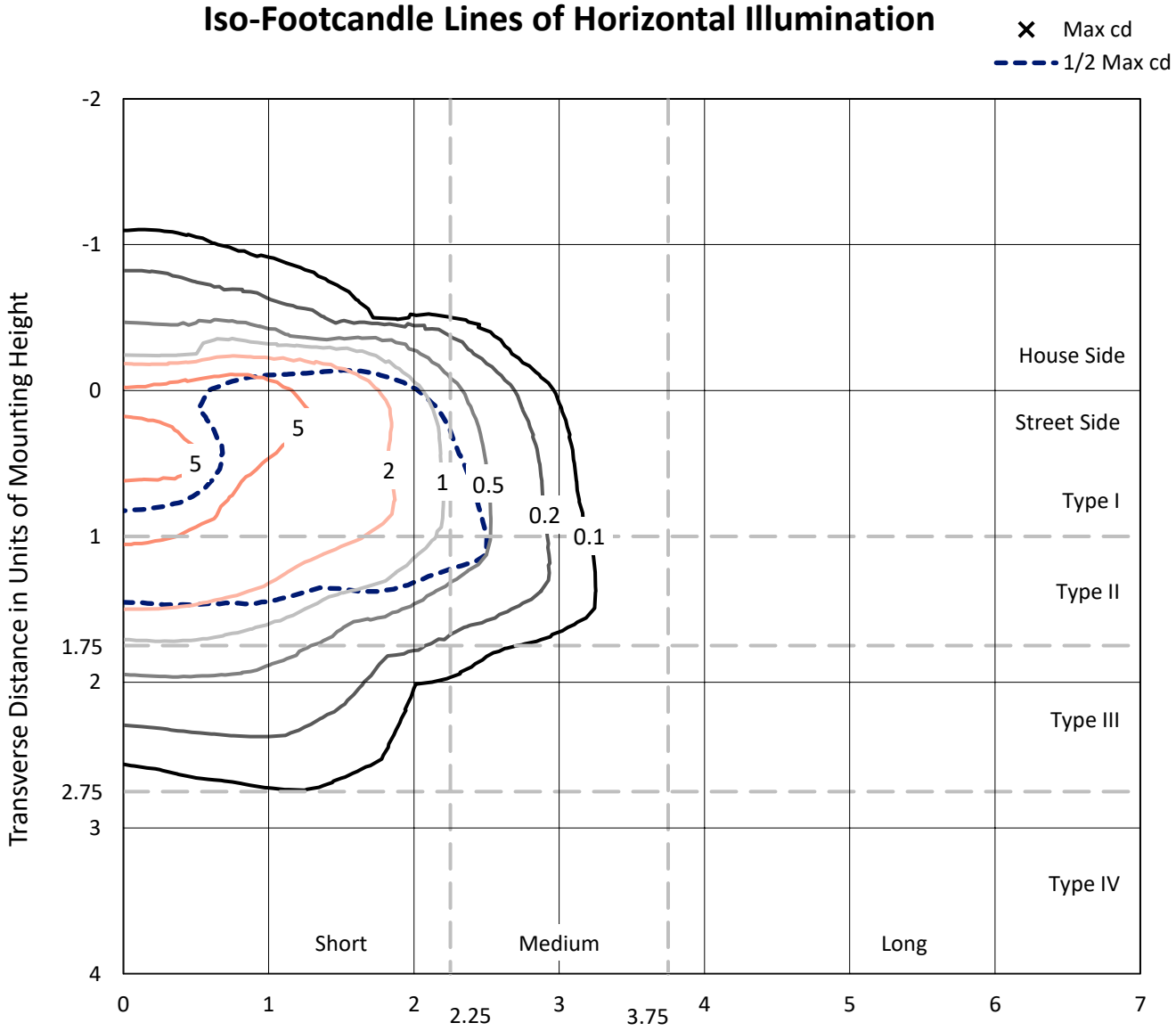
Input Watts (W):	31
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	6.4%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



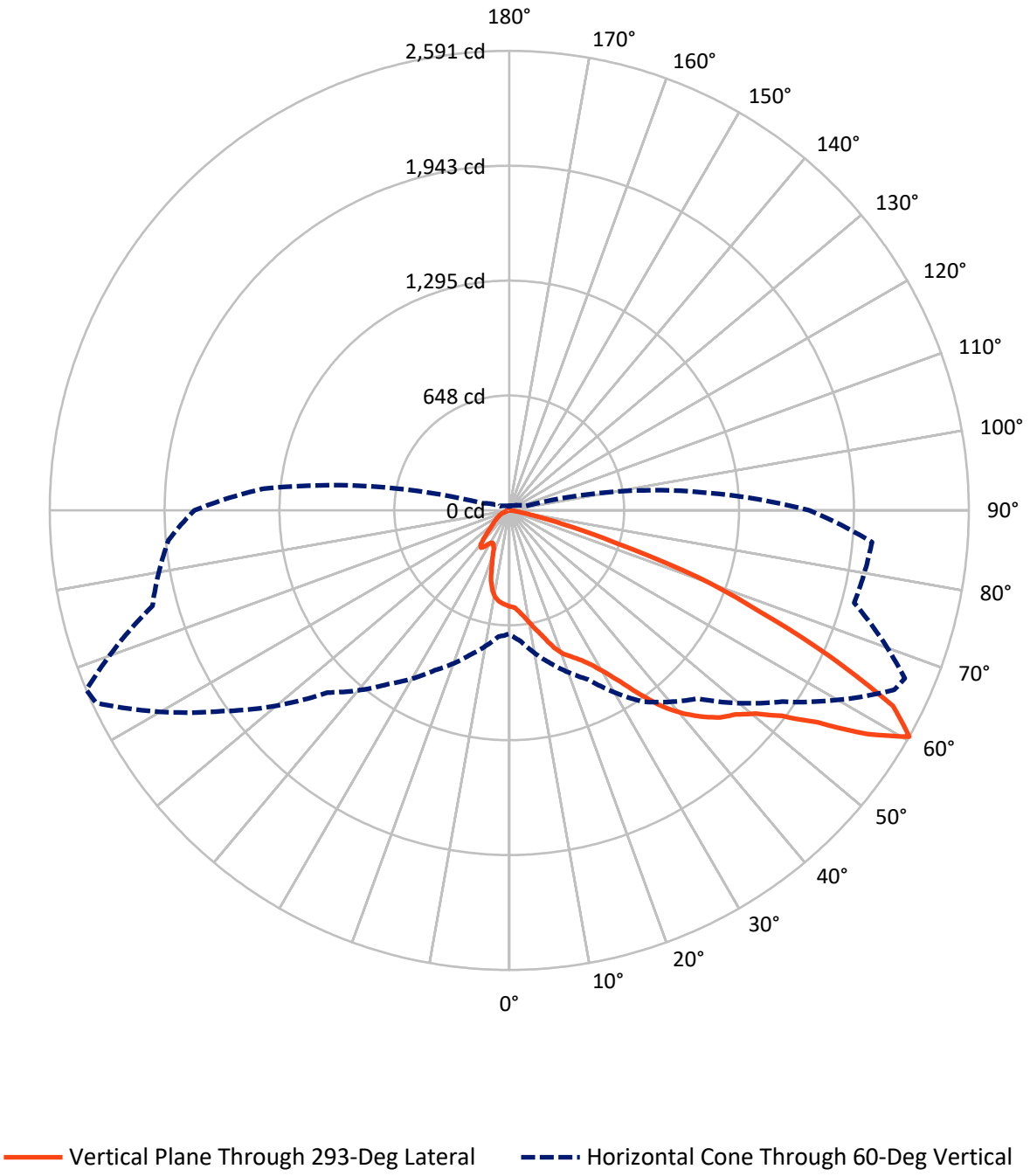
Based on 10 foot mounting height. Maximum calculated value = 9 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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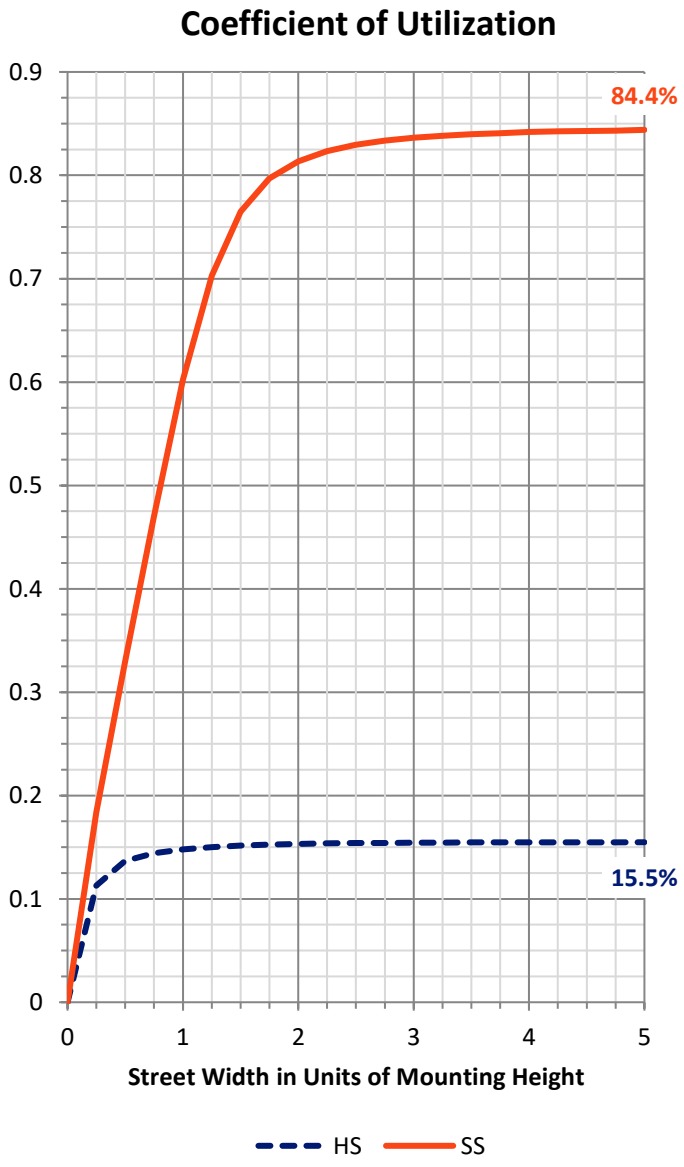
REPORT NUMBER: P1501949
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	493.0	0.0	493.0
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	2666.6	0.0	2666.6
	% Fixture	84.4	0.0	84.4
Total	Lumens	3159.6	0.0	3159.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.0	1.6
10°-20°	123.5	3.9
20°-30°	230.5	7.3
30°-40°	457.2	14.5
40°-50°	728.9	23.1
50°-60°	870.9	27.6
60°-70°	570.9	18.1
70°-80°	119.6	3.8
80°-90°	9.1	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°	3159.6	100.0
0°-180°	3159.6	100.0



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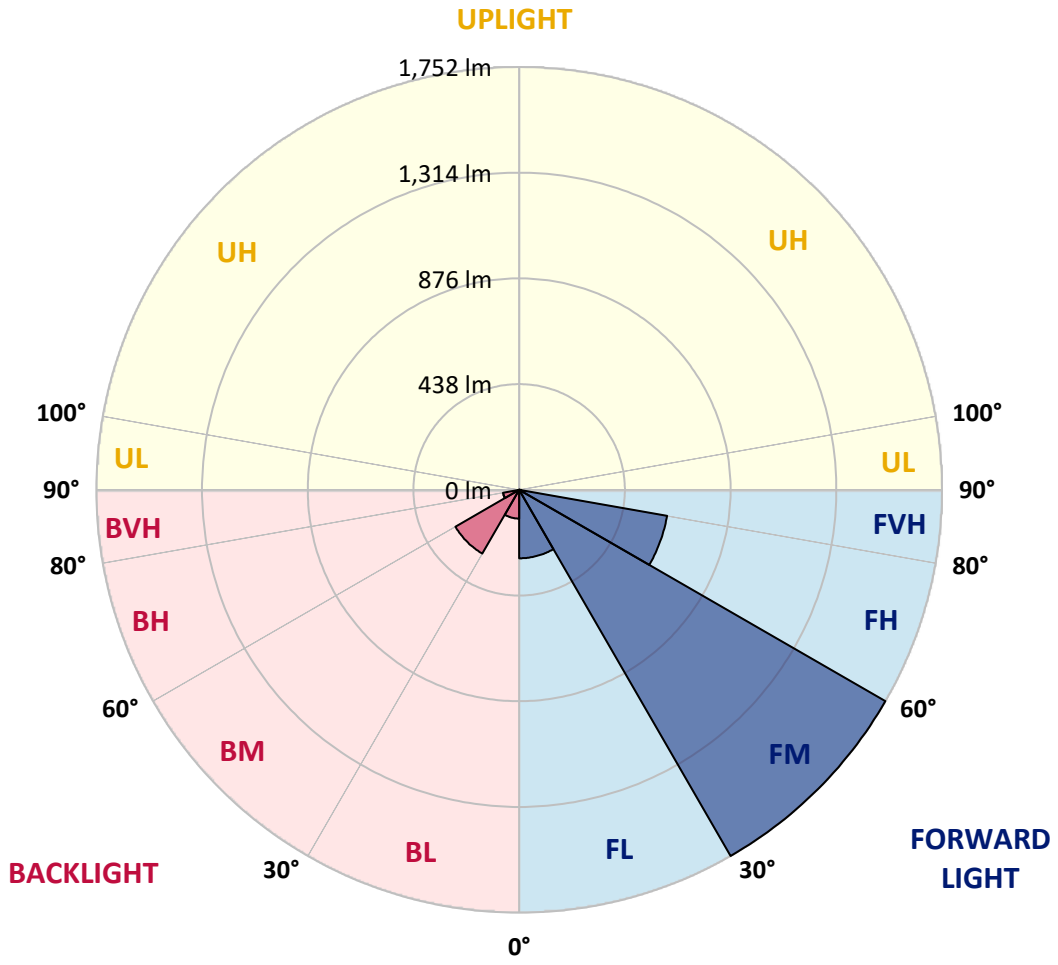
Scaled Data Report

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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°)	283.8	9.0			
FM	(30°-60°)	1752.1	55.5			
FH	(60°-80°)	622.4	19.7			G0/660
FVH	(80°-90°)	8.3	0.3			G0/10
BL	(0°-30°)	119.3	3.8	B1/500		
BM	(30°-60°)	304.9	9.6	B1/1000		
BH	(60°-80°)	68.1	2.2	B0/110		G0/110
BVH	(80°-90°)	0.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	541.5	541.5	541.5	541.5	541.5	541.5	541.5	541.5	541.5	541.5	541.5
2.5°	569.0	567.2	564.5	565.4	564.5	561.0	555.7	551.3	554.8	549.5	545.9
5°	585.8	585.8	584.0	584.0	584.9	583.1	579.6	573.4	574.3	569.8	558.3
7.5°	585.8	583.1	587.5	592.0	599.9	604.3	606.1	602.6	604.3	595.5	580.5
10°	551.3	549.5	561.0	577.8	600.8	621.2	634.4	635.3	638.0	629.1	611.4
12.5°	477.8	474.3	497.3	529.1	576.0	622.9	660.1	674.2	680.4	676.9	652.1
15°	409.7	414.1	430.0	464.5	527.4	599.0	674.2	721.1	730.0	734.4	705.2
17.5°	402.6	403.5	408.8	425.6	473.4	560.1	676.0	769.8	782.2	801.7	761.8
20°	422.1	420.3	425.6	430.9	453.9	525.6	659.2	816.7	840.6	882.2	838.8
22.5°	458.3	458.3	461.0	464.5	476.0	522.9	652.1	860.1	900.8	985.7	935.3
25°	519.4	512.3	514.1	509.7	519.4	554.8	668.1	894.6	950.3	1100.7	1050.3
27.5°	614.1	616.7	600.8	576.9	582.2	612.3	707.0	933.5	1001.6	1220.2	1167.1
30°	745.0	740.6	730.9	684.0	662.7	689.3	778.7	997.2	1070.7	1371.5	1322.8
32.5°	847.7	860.1	843.3	810.5	777.8	785.7	879.5	1099.9	1154.7	1510.4	1483.9
35°	971.6	971.6	975.1	929.1	907.0	905.2	1006.1	1211.3	1266.2	1636.1	1654.7
37.5°	1138.8	1127.3	1107.8	1056.5	1039.7	1061.8	1124.6	1326.4	1385.7	1737.8	1787.4
40°	1279.5	1287.4	1284.8	1210.5	1177.7	1201.6	1257.4	1424.6	1470.6	1803.3	1894.4
42.5°	1417.5	1421.9	1410.4	1375.0	1327.3	1329.0	1375.0	1498.9	1545.8	1866.1	1995.3
45°	1521.0	1520.2	1512.2	1503.3	1475.0	1445.8	1453.8	1581.2	1621.9	1886.5	2050.2
47.5°	1553.8	1560.9	1567.9	1592.7	1612.2	1566.2	1525.5	1625.5	1662.6	1882.9	2070.5
50°	1523.7	1538.7	1573.2	1610.4	1676.8	1673.2	1585.6	1673.2	1709.5	1902.4	2094.4
52.5°	1456.4	1471.5	1517.5	1584.7	1684.7	1734.3	1697.1	1753.8	1796.2	1952.0	2144.0
55°	1299.8	1306.0	1400.7	1489.2	1644.9	1707.7	1816.6	1890.0	1925.4	2012.1	2209.4
57.5°	1058.3	1073.3	1166.2	1310.4	1533.4	1637.8	1884.7	2122.7	2121.8	2069.6	2223.6
60°	*696.4*	*740.6*	*891.9*	*1051.2*	*1317.5*	*1500.7*	*1880.3*	*2395.3*	*2422.7*	*2013.0*	*2052.8*
62.5°	531.8	550.4	636.2	768.9	975.1	1244.1	1851.1	2476.7	2497.9	1860.8	1797.1
65°	399.9	423.0	505.2	623.8	688.4	843.3	1660.0	2152.8	2182.0	1660.8	1397.2
67.5°	245.1	263.7	373.4	512.3	521.2	523.8	1120.2	1630.8	1641.4	1339.6	940.6
70°	163.7	182.3	258.4	393.8	415.0	301.7	615.0	1234.4	1233.5	916.7	571.6
72.5°	94.7	103.5	163.7	290.2	326.5	192.0	307.0	784.9	750.3	430.9	267.2
75°	54.0	60.2	90.3	186.7	229.2	122.1	121.2	420.3	371.6	222.1	146.0
77.5°	32.7	35.4	49.6	122.1	138.0	82.3	67.2	195.5	188.5	130.1	77.0
80°	15.9	18.6	30.1	71.7	88.5	44.2	40.7	77.0	82.3	71.7	40.7
82.5°	5.3	7.1	16.8	27.4	57.5	17.7	16.8	42.5	45.1	42.5	19.5
85°	2.7	3.5	8.0	8.8	22.1	8.8	6.2	18.6	23.0	14.2	8.0
87.5°	0.0	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8	1.8
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°	541.5	541.5	541.5	541.5	541.5	541.5	541.5	541.5	541.5	541.5	541.5
2.5°	543.3	541.5	538.0	531.8	530.9	526.5	519.4	515.0	511.4	514.1	515.0
5°	553.0	548.6	538.0	521.2	503.5	485.8	469.0	449.5	436.2	434.5	430.9
7.5°	570.7	561.9	538.9	506.1	461.0	418.5	369.0	321.2	297.3	293.8	285.8
10°	599.0	584.0	545.9	479.6	392.9	304.4	229.2	177.9	148.7	143.3	145.1
12.5°	632.7	611.4	546.8	434.5	299.1	188.5	130.1	110.6	104.4	101.8	101.8
15°	676.0	645.0	545.9	376.1	201.7	121.2	104.4	96.4	93.8	92.0	92.0
17.5°	730.9	690.2	539.8	288.5	136.3	105.3	95.6	89.4	85.8	84.9	84.9
20°	795.5	740.6	525.6	215.0	114.1	98.2	90.3	82.3	79.6	77.9	77.9
22.5°	877.8	801.7	498.2	167.2	108.0	93.8	84.9	76.1	73.4	71.7	71.7
25°	973.3	879.5	461.9	150.4	107.1	90.3	79.6	70.8	68.1	67.2	66.4
27.5°	1086.6	962.7	428.3	151.3	108.8	87.6	74.3	66.4	63.7	61.1	61.9
30°	1220.2	1048.5	400.8	161.9	110.6	84.9	70.8	63.7	61.1	57.5	57.5
32.5°	1352.0	1149.4	398.2	181.4	116.8	83.2	67.2	60.2	57.5	54.9	54.9
35°	1487.4	1241.4	413.2	207.1	129.2	80.5	62.8	56.6	54.0	52.2	51.3
37.5°	1616.6	1314.9	427.4	223.0	122.1	69.0	57.5	52.2	49.6	46.0	46.0
40°	1702.4	1354.7	430.0	210.6	100.9	61.9	52.2	46.9	43.4	41.6	40.7
42.5°	1765.3	1380.4	399.9	170.8	87.6	56.6	47.8	42.5	39.8	38.0	38.0
45°	1790.9	1371.5	348.6	130.1	80.5	52.2	43.4	38.9	37.2	35.4	35.4
47.5°	1787.4	1330.8	296.4	104.4	73.4	47.8	40.7	37.2	35.4	33.6	32.7
50°	1781.2	1292.8	243.3	92.9	65.5	45.1	38.0	35.4	32.7	31.0	30.1
52.5°	1821.9	1280.4	201.7	84.9	61.1	43.4	37.2	33.6	31.0	29.2	29.2
55°	1862.6	1285.7	158.4	79.6	56.6	42.5	36.3	32.7	30.1	27.4	27.4
57.5°	1859.9	1262.7	120.3	74.3	53.1	41.6	35.4	31.9	27.4	25.7	25.7
60°	*1690.9*	*1126.4*	*93.8*	*68.1*	*48.7*	*38.9*	*32.7*	*30.1*	*25.7*	*23.0*	*23.0*
62.5°	1429.9	885.7	77.0	60.2	43.4	35.4	30.1	27.4	23.0	18.6	18.6
65°	1056.5	638.9	61.9	52.2	39.8	31.0	27.4	23.9	18.6	15.0	14.2
67.5°	715.0	392.9	49.6	43.4	35.4	26.5	23.0	20.4	16.8	12.4	11.5
70°	423.8	208.8	36.3	30.1	26.5	19.5	19.5	17.7	14.2	10.6	9.7
72.5°	201.7	72.6	26.5	22.1	20.4	14.2	15.0	15.0	11.5	8.0	7.1
75°	102.6	35.4	17.7	15.9	13.3	10.6	12.4	11.5	8.0	5.3	5.3
77.5°	58.4	24.8	12.4	10.6	8.8	7.1	8.0	7.1	4.4	2.7	2.7
80°	32.7	17.7	8.0	7.1	5.3	4.4	4.4	3.5	2.7	0.9	0.9
82.5°	12.4	10.6	5.3	3.5	2.7	2.7	1.8	1.8	0.9	0.0	0.0
85°	5.3	2.7	2.7	1.8	1.8	0.9	0.9	0.9	0.0	0.0	0.0
87.5°	0.9	0.9	0.9	0.9	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°	541.5	541.5	541.5	541.5	541.5	541.5	541.5	541.5	541.5	541.5	541.5
2.5°	507.9	509.7	511.4	518.5	520.3	525.6	530.0	535.3	536.2	543.3	543.3
5°	438.0	437.1	452.2	474.3	488.4	507.9	522.9	538.9	547.7	559.2	564.5
7.5°	290.2	312.3	346.0	384.9	435.3	482.2	517.6	548.6	569.8	583.1	588.4
10°	144.2	156.6	192.0	255.7	341.5	437.1	512.3	569.8	604.3	619.4	629.1
12.5°	101.8	104.4	110.6	145.1	227.4	362.8	495.5	592.8	640.6	668.9	681.3
15°	91.1	92.9	95.6	105.3	140.7	270.8	465.4	618.5	697.3	730.0	745.9
17.5°	84.1	84.9	87.6	95.6	110.6	184.0	416.8	645.9	765.4	805.2	835.3
20°	77.9	77.9	80.5	90.3	102.6	141.6	346.9	676.9	852.1	909.6	939.7
22.5°	70.8	72.6	74.3	84.9	100.0	129.2	281.4	700.8	948.5	1018.5	1053.8
25°	65.5	67.2	69.0	79.6	97.3	129.2	243.3	715.8	1056.5	1139.7	1188.3
27.5°	61.1	62.8	65.5	76.1	94.7	134.5	228.3	720.3	1174.2	1282.1	1347.6
30°	57.5	59.3	61.9	73.4	96.4	140.7	233.6	714.1	1293.6	1429.0	1506.9
32.5°	54.0	55.7	58.4	70.8	96.4	148.7	251.3	701.7	1409.6	1575.9	1671.5
35°	51.3	52.2	53.1	63.7	87.6	147.8	273.4	689.3	1526.3	1721.0	1832.5
37.5°	46.0	46.9	48.7	54.9	69.9	134.5	277.8	674.2	1618.4	1843.1	1966.1
40°	40.7	42.5	44.2	50.4	58.4	108.8	258.4	642.4	1667.0	1936.9	2086.5
42.5°	37.2	38.0	39.8	46.0	54.0	86.7	216.8	586.6	1710.4	2000.6	2174.1
45°	34.5	35.4	37.2	41.6	50.4	75.2	170.8	518.5	1713.9	2021.0	2216.5
47.5°	31.9	32.7	33.6	38.0	48.7	67.2	131.0	456.6	1713.1	2047.5	2252.8
50°	30.1	31.0	32.7	36.3	46.0	60.2	108.0	406.1	1750.2	2105.0	2326.2
52.5°	29.2	29.2	31.9	35.4	43.4	54.9	90.3	361.0	1769.7	2161.7	2379.3
55°	27.4	28.3	30.1	33.6	40.7	52.2	77.0	304.4	1778.5	2190.0	2389.1
57.5°	25.7	26.5	29.2	31.9	38.9	49.6	66.4	227.4	1652.0	2042.2	2226.3
60°	*23.0*	*24.8*	*28.3*	*31.0*	*36.3*	*45.1*	*58.4*	*154.0*	*1393.6*	*1775.0*	*1929.0*
62.5°	18.6	22.1	25.7	27.4	32.7	38.0	49.6	102.6	1113.1	1468.8	1644.0
65°	14.2	18.6	21.2	23.9	27.4	31.9	41.6	69.9	742.4	988.4	1185.7
67.5°	12.4	15.9	17.7	19.5	23.0	27.4	33.6	48.7	450.4	593.7	788.4
70°	9.7	13.3	15.0	14.2	17.7	21.2	23.9	32.7	230.1	322.1	448.6
72.5°	7.1	10.6	11.5	11.5	10.6	15.0	17.7	23.0	100.0	156.6	203.5
75°	5.3	7.1	8.0	7.1	6.2	9.7	12.4	15.0	65.5	93.8	118.6
77.5°	2.7	2.7	4.4	4.4	2.7	5.3	6.2	8.8	37.2	54.9	68.1
80°	0.9	0.0	0.0	0.9	0.0	1.8	2.7	4.4	19.5	29.2	42.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	9.7	8.8	22.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	5.3
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: P1501949
CATALOG NUMBER: GSS-SB1A-840-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	541.5	*541.5*	541.5	541.5	541.5	541.5	541.5	541.5	541.5	541.5
2.5°	547.7	*547.7*	551.3	556.6	559.2	561.0	561.9	563.6	570.7	569.0
5°	570.7	*572.5*	575.1	580.5	586.6	584.9	584.9	584.9	589.3	585.8
7.5°	600.8	*606.1*	607.0	613.2	608.8	599.9	594.6	586.6	585.8	585.8
10°	649.5	*647.7*	647.7	639.7	623.8	598.2	575.1	559.2	550.4	551.3
12.5°	701.7	*694.6*	695.5	666.3	621.2	564.5	517.6	483.1	480.5	477.8
15°	766.3	*747.7*	744.2	676.9	581.3	494.6	448.6	421.2	412.3	409.7
17.5°	858.3	*811.4*	794.6	658.3	529.1	451.3	416.8	404.4	403.5	402.6
20°	955.6	*862.7*	830.9	630.9	511.4	452.2	426.5	423.0	421.2	422.1
22.5°	1068.9	*895.5*	854.8	635.3	527.4	481.4	461.0	458.3	456.6	458.3
25°	1185.7	*933.5*	883.1	670.7	575.1	535.3	511.4	506.1	511.4	519.4
27.5°	1303.4	*984.8*	938.8	740.6	652.1	608.8	585.8	605.2	613.2	614.1
30°	1407.8	*1056.5*	1014.0	838.8	739.7	696.4	700.8	725.6	735.3	745.0
32.5°	1503.3	*1152.1*	1119.3	950.3	853.0	827.3	824.7	843.3	853.9	847.7
35°	1599.8	*1276.8*	1245.0	1071.5	991.9	970.7	948.5	984.8	981.3	971.6
37.5°	1690.9	*1402.5*	1373.3	1201.6	1119.3	1082.2	1078.6	1111.4	1140.6	1138.8
40°	1756.4	*1504.2*	1468.8	1330.8	1252.9	1221.1	1239.7	1296.3	1289.2	1279.5
42.5°	1816.6	*1590.9*	1559.1	1444.1	1362.7	1376.8	1393.6	1431.7	1427.2	1417.5
45°	1844.9	*1665.3*	1637.8	1529.9	1490.1	1535.2	1534.3	1548.5	1524.6	1521.0
47.5°	1884.7	*1718.4*	1690.0	1606.9	1642.3	1660.8	1608.6	1593.6	1571.5	1553.8
50°	1958.2	*1800.6*	1772.3	1723.7	1753.8	1696.2	1632.5	1599.8	1554.7	1523.7
52.5°	2044.0	*1925.4*	1900.6	1881.2	1797.1	1678.5	1597.1	1537.9	1483.0	1456.4
55°	2151.9	*2109.5*	2091.8	1984.7	1758.2	1606.0	1510.4	1399.8	1324.6	1299.8
57.5°	2187.3	*2379.3*	2373.1	2001.5	1649.3	1474.1	1301.6	1152.1	1074.2	1058.3
60°	*2082.9*	*2590.8*	*2568.7*	*1973.2*	*1452.0*	*1196.3*	*994.6*	*841.5*	*715.0*	*696.4*
62.5°	1949.3	*2428.9*	2420.9	1830.7	1106.1	857.4	743.3	599.9	545.9	531.8
65°	1669.7	*1987.4*	1990.9	1468.8	699.9	615.8	610.5	476.9	410.6	399.9
67.5°	1285.7	*1524.6*	1499.8	923.8	407.9	492.9	487.5	348.6	252.2	245.1
70°	751.2	*1135.2*	1095.4	480.5	269.9	411.5	375.2	245.1	171.7	163.7
72.5°	331.8	*624.7*	670.7	211.5	190.2	327.4	270.8	150.4	96.4	94.7
75°	184.0	*309.7*	323.9	92.0	133.6	232.7	163.7	84.1	54.9	54.0
77.5°	110.6	*137.2*	133.6	59.3	100.0	148.7	99.1	47.8	34.5	32.7
80°	61.9	*62.8*	53.1	43.4	59.3	83.2	55.7	30.1	15.9	15.9
82.5°	38.0	*34.5*	27.4	13.3	15.9	50.4	20.4	16.8	5.3	5.3
85°	15.9	*10.6*	7.1	2.7	6.2	13.3	7.1	8.0	2.7	2.7
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: SP1-2407-184-11

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-840-U-5WQ

Data in this report applies to families of products including GSS-SB1A-840-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

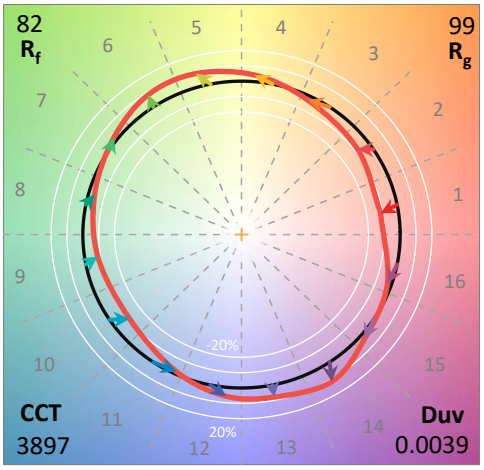
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-11
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-840-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 4000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3897
CIE u':	0.2249
CIE v':	0.5084
Duv:	0.0039
CIE x:	0.3882
CIE y:	0.3900
CIE z:	0.2218
Peak Wavelength (nm):	445
Dominant Wavelength (nm):	577
Purity:	33.54925
Rf:	81.8
Rg:	98.6

CRI (Ra):	80.2
R1:	78.9
R2:	83.5
R3:	88.3
R4:	82.1
R5:	78.8
R6:	78.4
R7:	85.8
R8:	65.8
R9:	6.7
R10:	61.9
R11:	81.9
R12:	58.9
R13:	79.2
R14:	93.2
R15:	71.9



Test Conditions

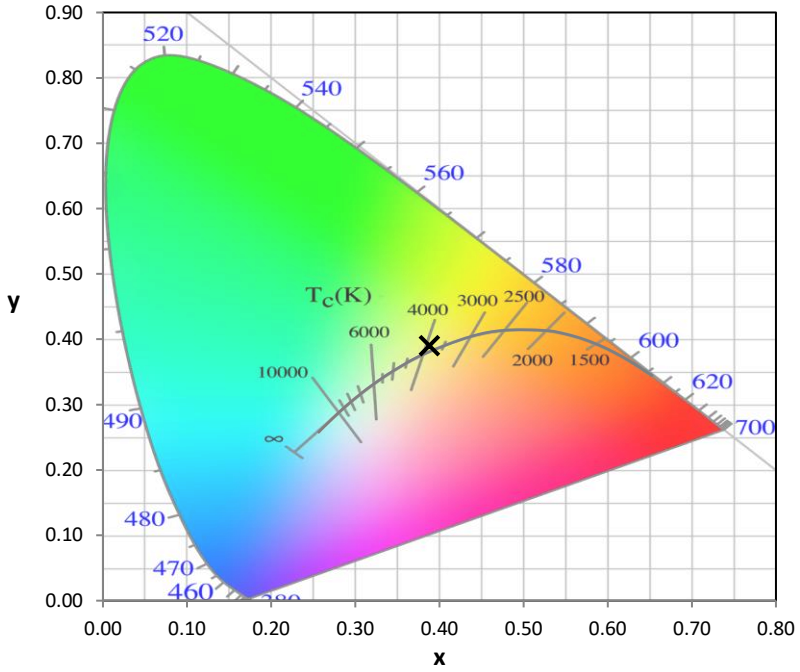
Stabilization Time:	24M
Operation Time:	1H 24M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-11

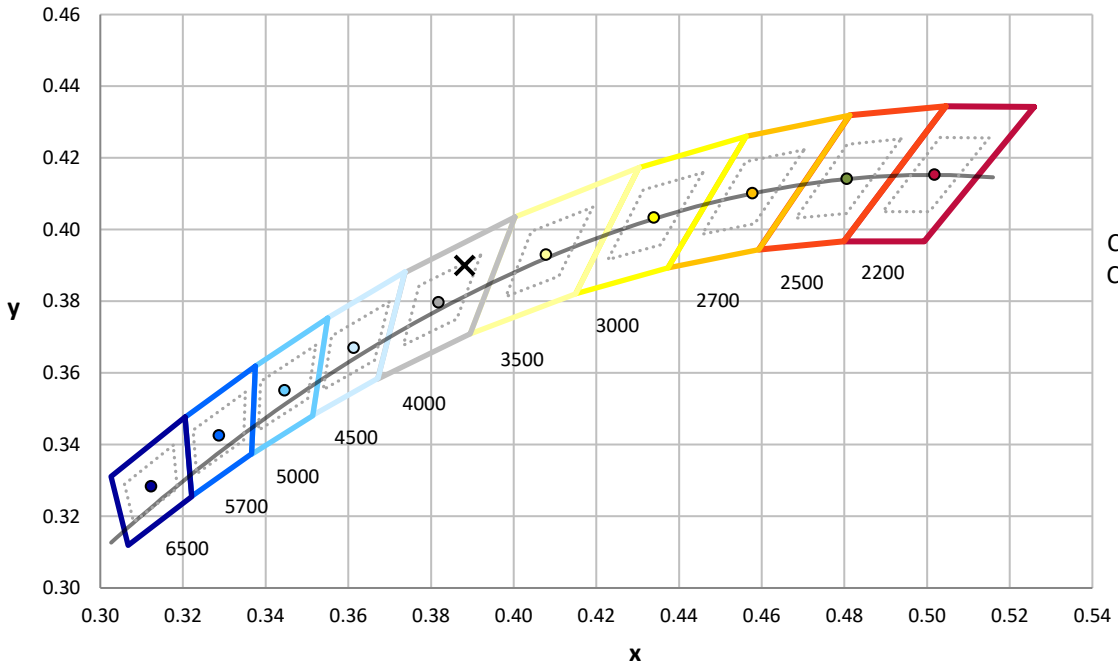
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-11

CIE 1931 Chromaticity Diagram



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

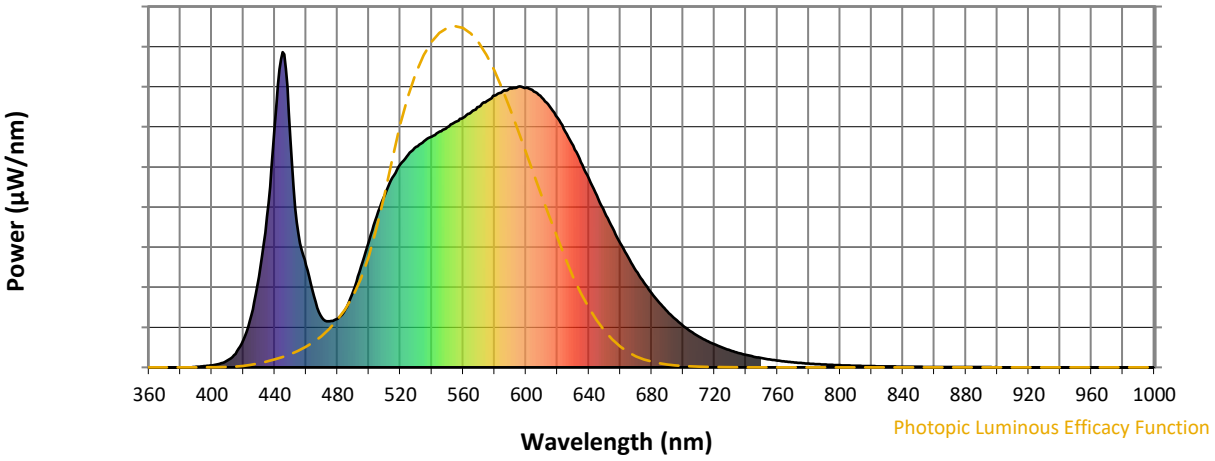


CCT = 3897K
CIE x = 0.3882
CIE y = 0.3900
Duv = 0.0039

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-11

Photopic Flux vs. Wavelength

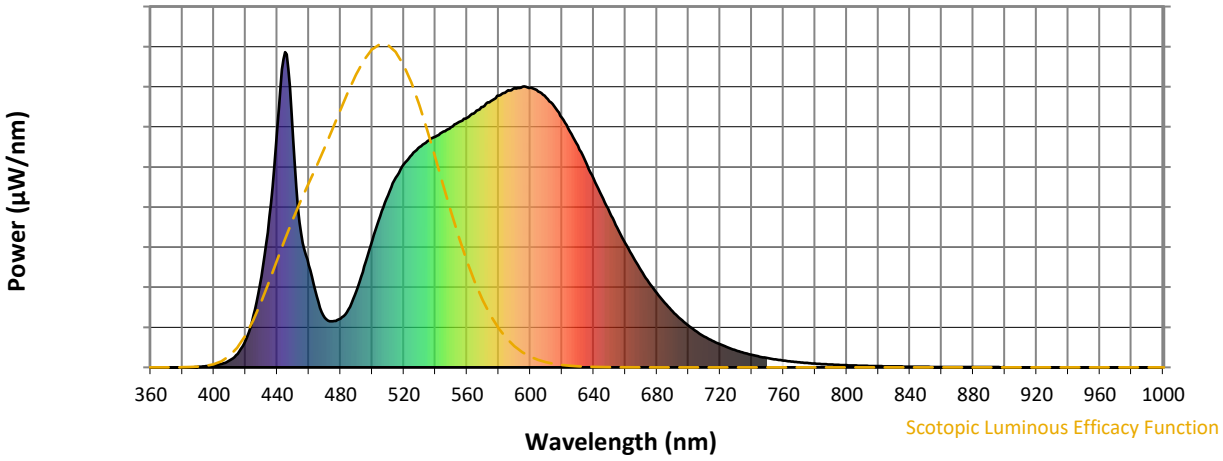


Photopic Lumens: NR

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

Scotopic Flux vs. Wavelength

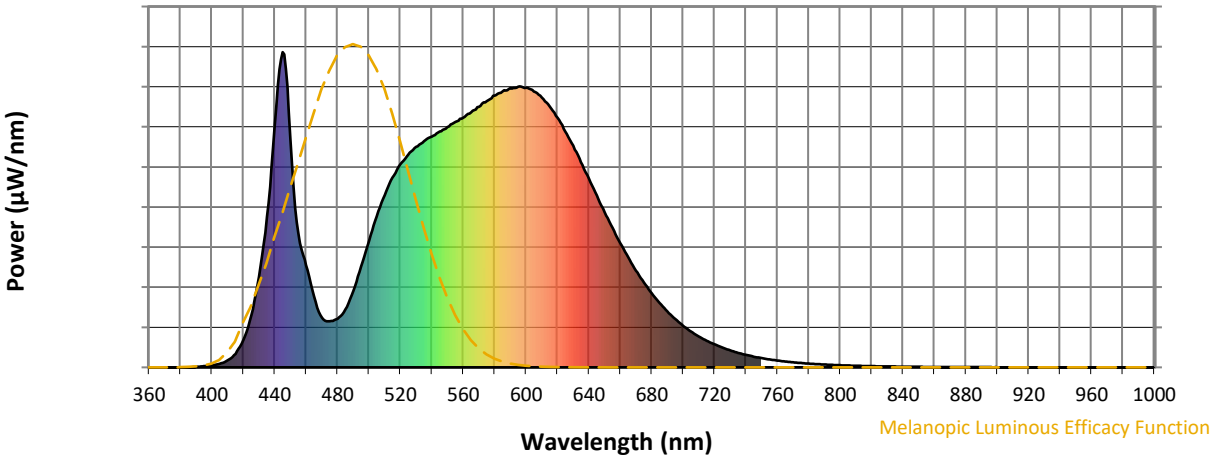


Scotopic Lumens: NR **S/P: 1.57**

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.06**

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

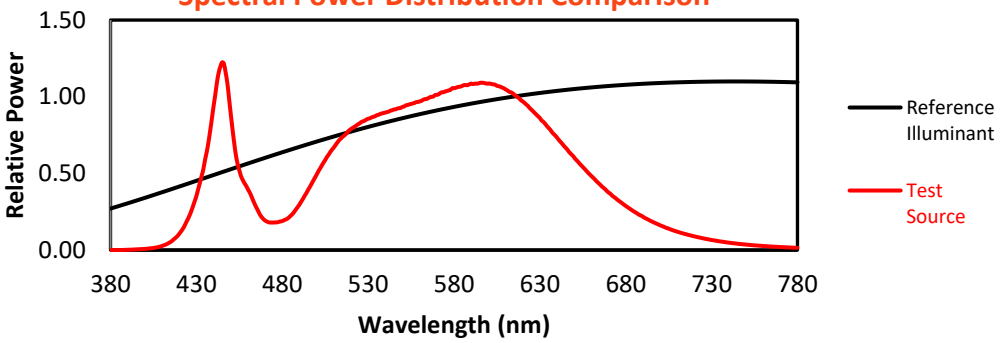
REPORT NUMBER: SP1-2407-184-11

TM-30-18

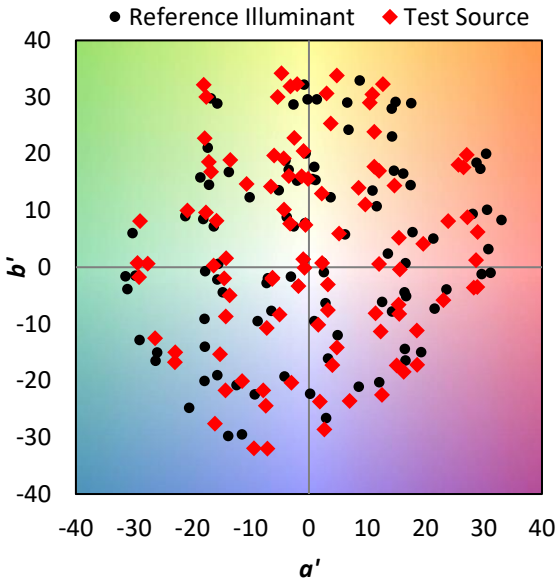
Summary

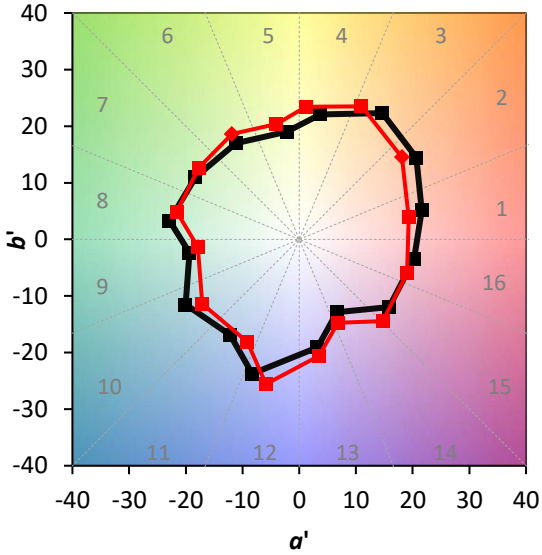
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R_g = 98.6
CIE R_a = 80.2
R_9 = 6.7

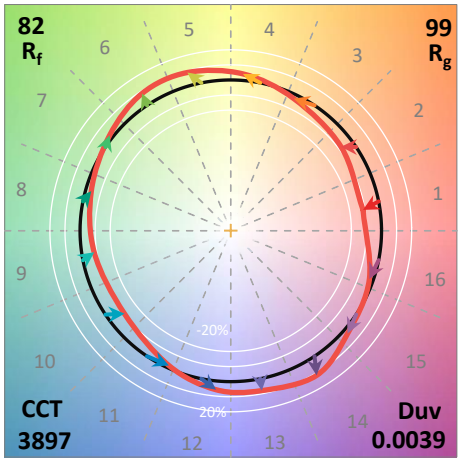
Spectral Power Distribution Comparison

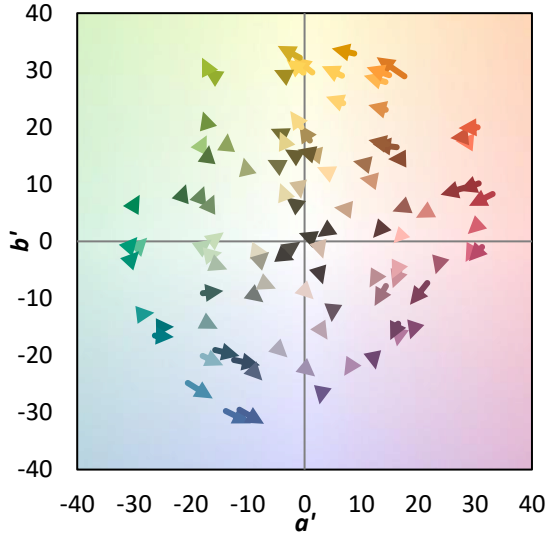


Color Vector Graphics







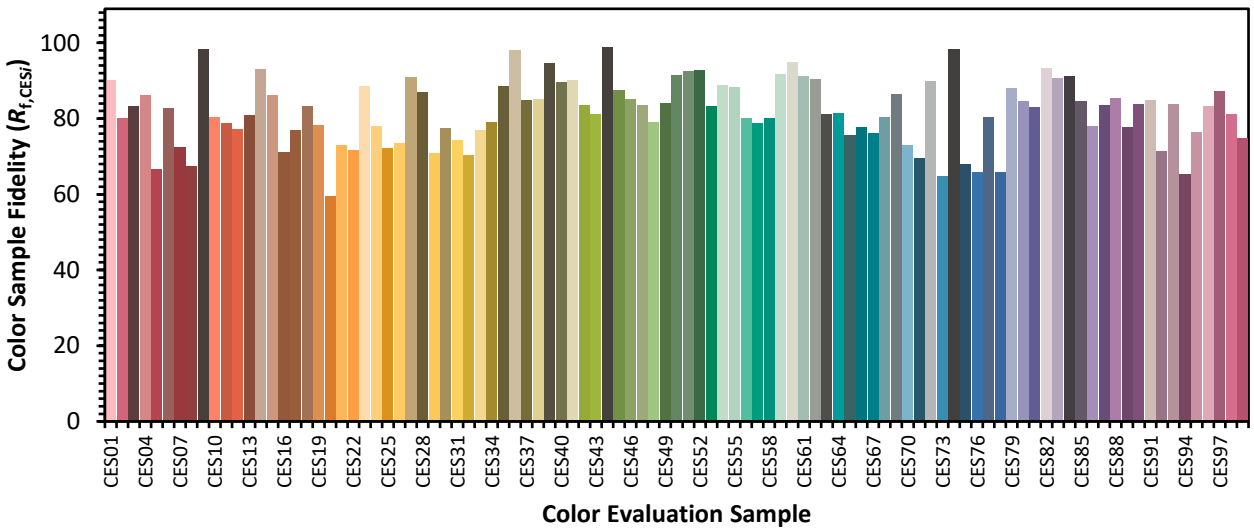


REPORT NUMBER: SP1-2407-184-11

TM-30-18

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

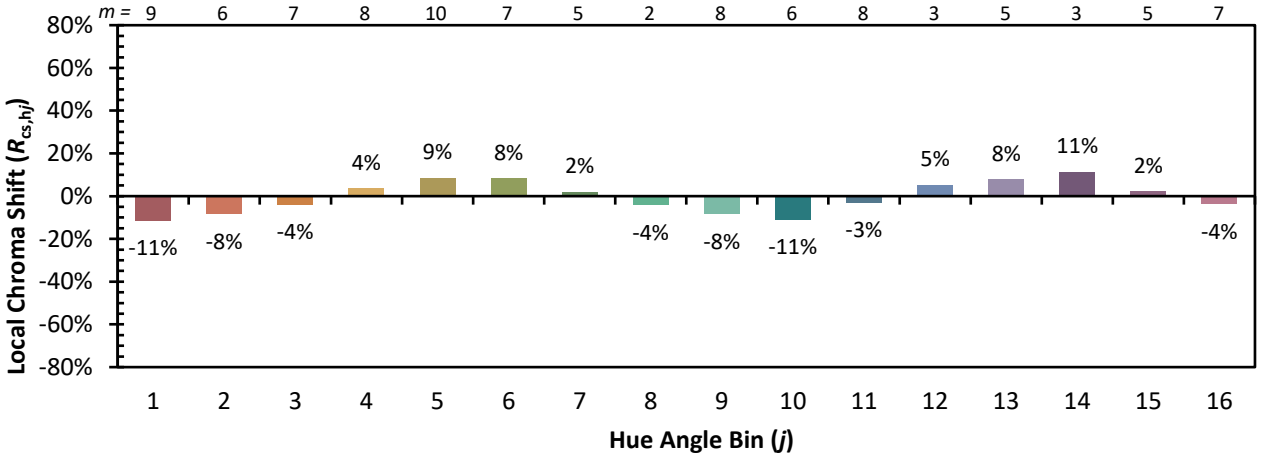
CES01 = 85	CES26 = 73	CES51 = 93	CES76 = 66
CES02 = 61	CES27 = 91	CES52 = 93	CES77 = 80
CES03 = 31	CES28 = 87	CES53 = 83	CES78 = 66
CES04 = 69	CES29 = 71	CES54 = 89	CES79 = 88
CES05 = 48	CES30 = 77	CES55 = 88	CES80 = 85
CES06 = 50	CES31 = 74	CES56 = 80	CES81 = 83
CES07 = 41	CES32 = 70	CES57 = 79	CES82 = 93
CES08 = 40	CES33 = 77	CES58 = 80	CES83 = 91
CES09 = 29	CES34 = 79	CES59 = 92	CES84 = 91
CES10 = 74	CES35 = 88	CES60 = 95	CES85 = 84
CES11 = 57	CES36 = 98	CES61 = 91	CES86 = 78
CES12 = 63	CES37 = 85	CES62 = 90	CES87 = 84
CES13 = 42	CES38 = 85	CES63 = 81	CES88 = 85
CES14 = 74	CES39 = 95	CES64 = 81	CES89 = 78
CES15 = 71	CES40 = 90	CES65 = 76	CES90 = 84
CES16 = 47	CES41 = 90	CES66 = 78	CES91 = 85
CES17 = 49	CES42 = 84	CES67 = 76	CES92 = 71
CES18 = 56	CES43 = 81	CES68 = 80	CES93 = 84
CES19 = 71	CES44 = 99	CES69 = 86	CES94 = 65
CES20 = 65	CES45 = 87	CES70 = 73	CES95 = 77
CES21 = 86	CES46 = 85	CES71 = 70	CES96 = 83
CES22 = 78	CES47 = 84	CES72 = 90	CES97 = 87
CES23 = 91	CES48 = 79	CES73 = 65	CES98 = 81
CES24 = 90	CES49 = 84	CES74 = 98	CES99 = 75
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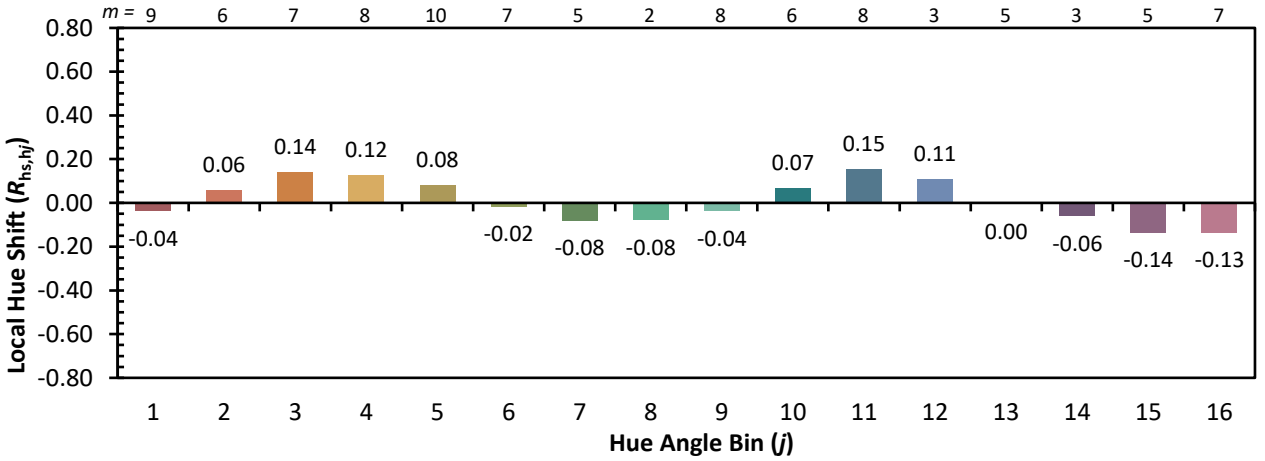


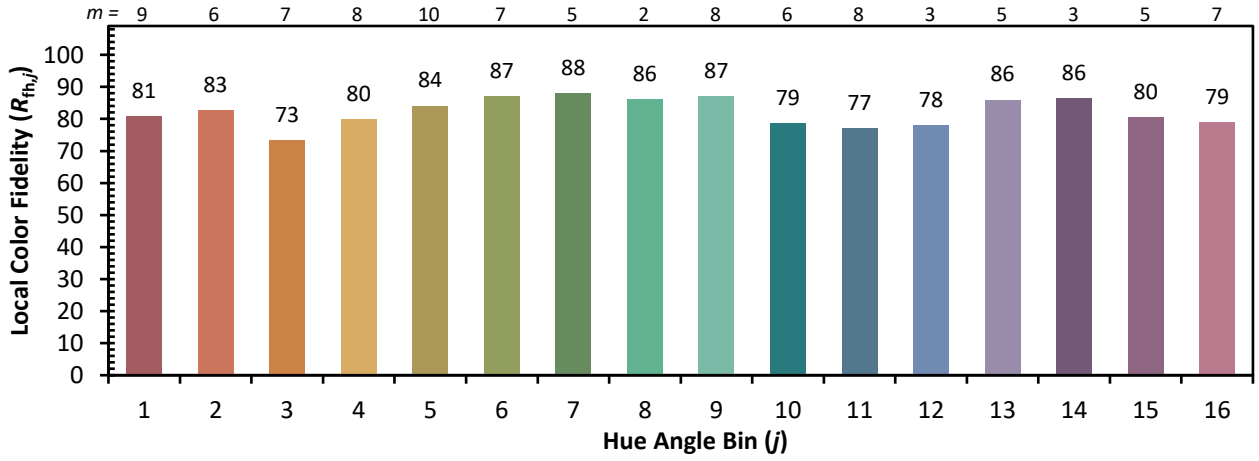
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Color Rendition by Hue-Angle Bin



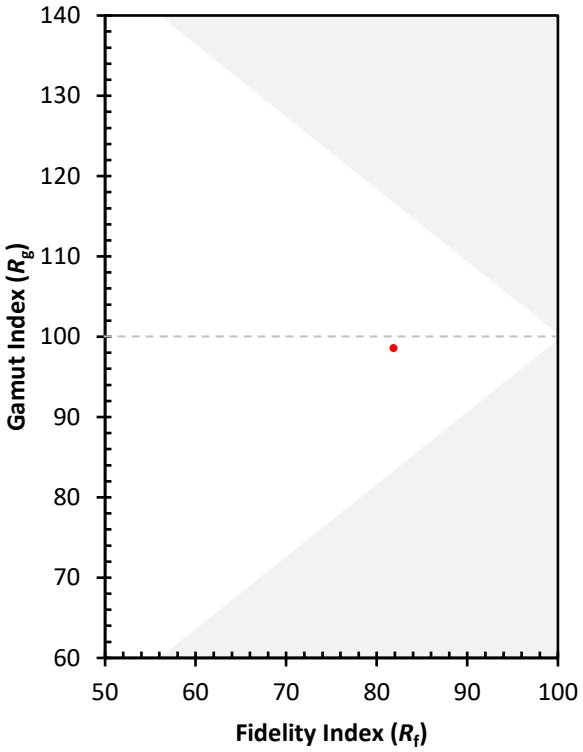


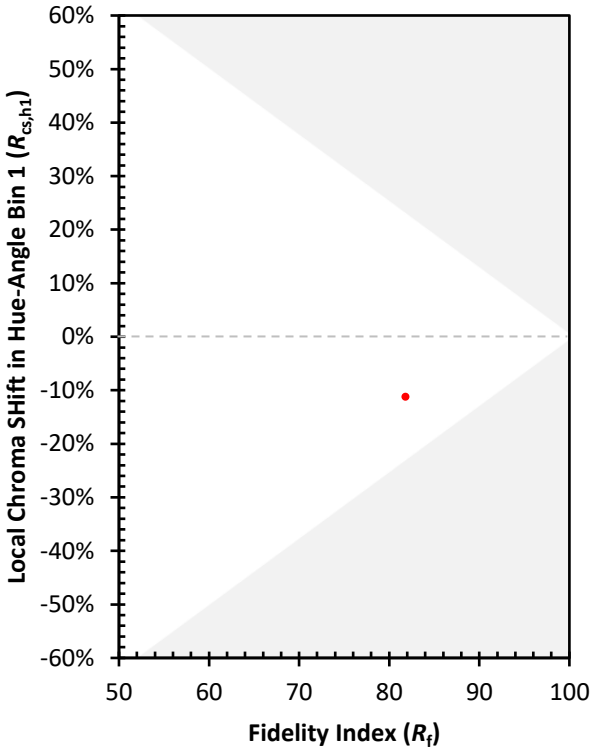


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Measure Comparisons





(END OF REPORT)