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: P1501882

Luminaire Tested: GSS-SB2B-827-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:	P1501882
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB2B-827-U-T2LG-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 2SQUARE 74W 80CRI 2700K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE W/ HOUSE SIDE SHIELD
Light Source:	(52) 2700K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7389.9 lumens
Efficiency:	N/A
Efficacy:	99.9 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G1

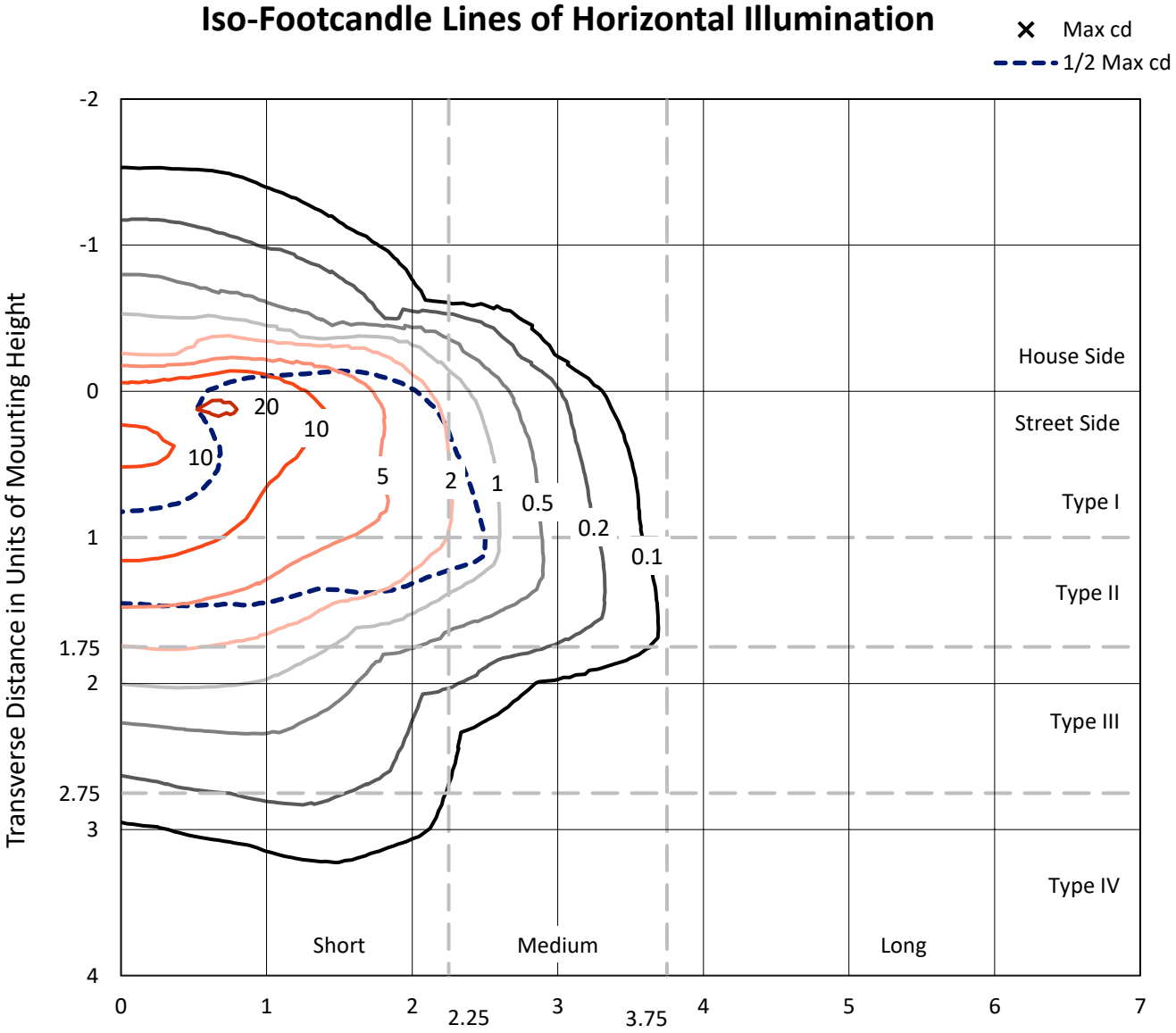
Input Watts (W):	74
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	13.6%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



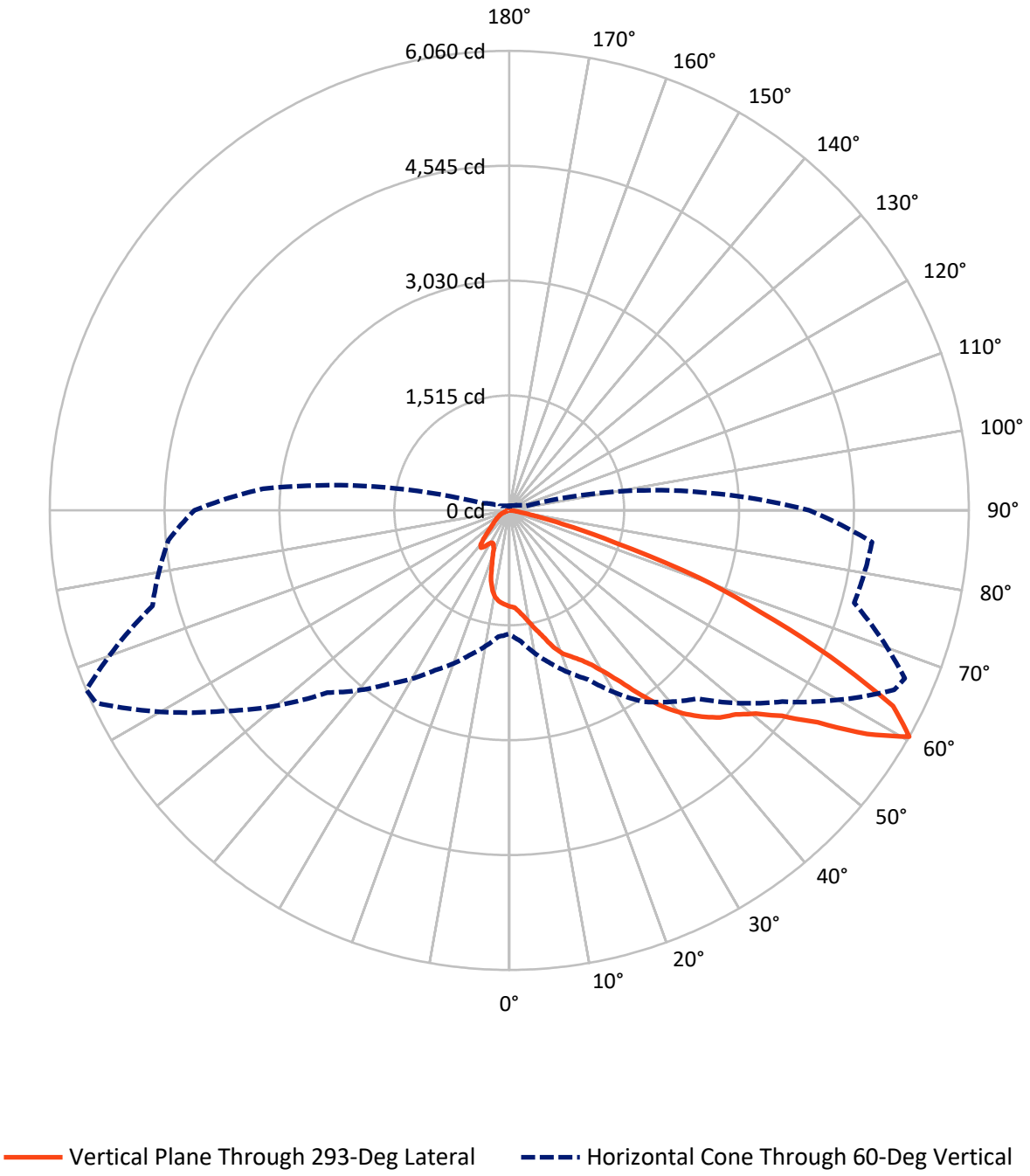
Based on 10 foot mounting height. Maximum calculated value = 21.1 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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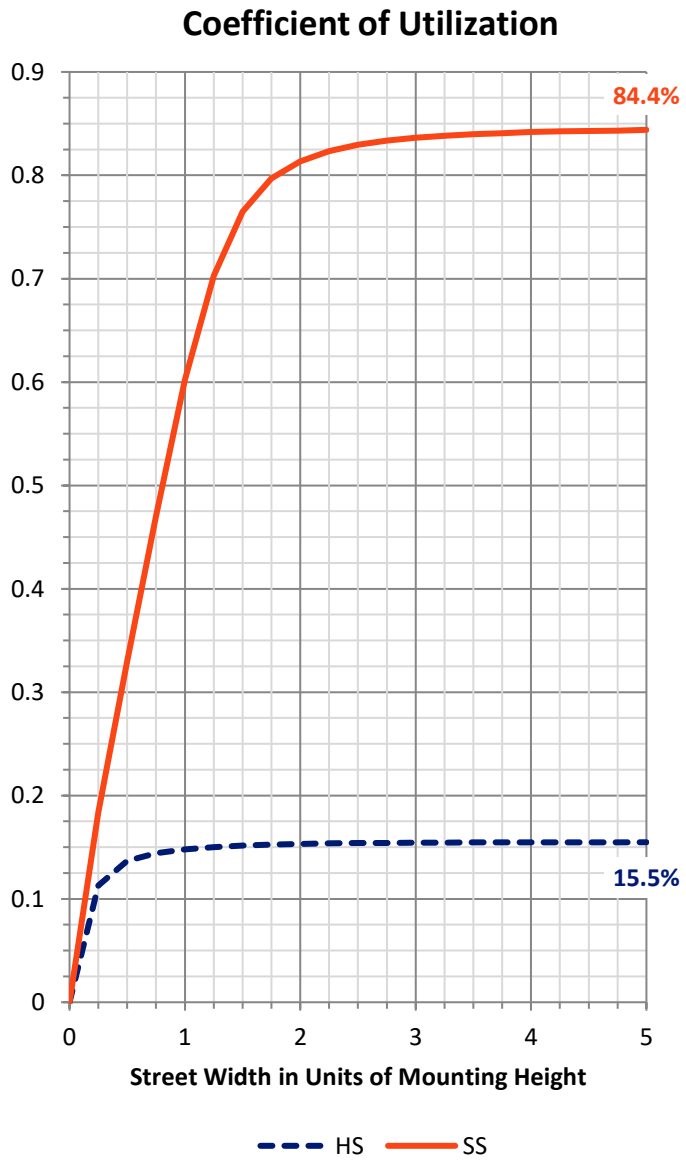
REPORT NUMBER: P1501882
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1153.0	0.0	1153.0
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	6236.9	0.0	6236.9
	% Fixture	84.4	0.0	84.4
Total	Lumens	7389.9	0.0	7389.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.7	1.6
10°-20°	288.8	3.9
20°-30°	539.2	7.3
30°-40°	1069.3	14.5
40°-50°	1704.8	23.1
50°-60°	2036.9	27.6
60°-70°	1335.3	18.1
70°-80°	279.8	3.8
80°-90°	21.2	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°	7389.9	100.0
0°-180°	7389.9	100.0



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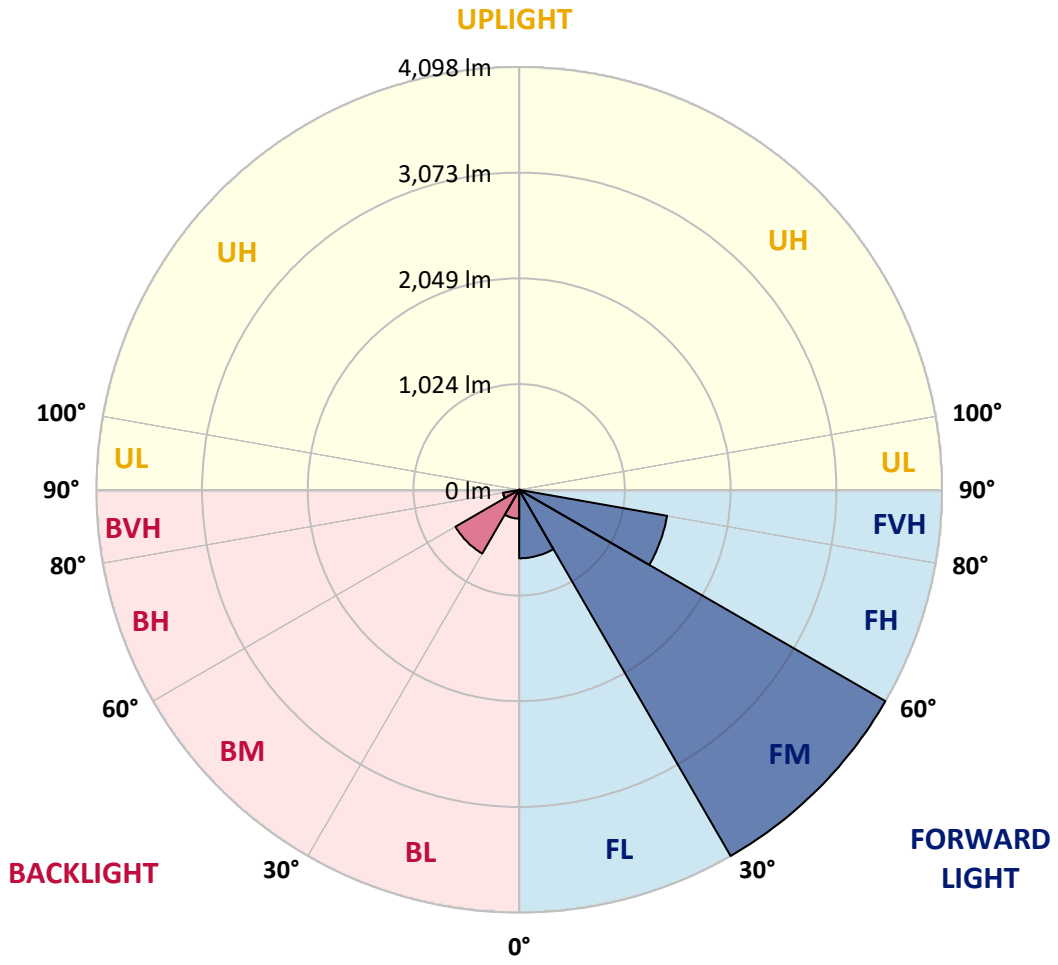
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	663.8	9.0			
FM	(30°-60°)	4098.0	55.5			
FH	(60°-80°)	1455.8	19.7			G1/1800
FVH	(80°-90°)	19.4	0.3			G1/100
BL	(0°-30°)	278.9	3.8	B1/500		
BM	(30°-60°)	713.0	9.6	B1/1000		
BH	(60°-80°)	159.3	2.2	B1/500		G1/500
BVH	(80°-90°)	1.8	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-G1
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6
2.5°	1330.7	1326.6	1320.4	1322.4	1320.4	1312.1	1299.7	1289.3	1297.6	1285.2	1276.9
5°	1370.0	1370.0	1365.9	1365.9	1368.0	1363.8	1355.5	1341.1	1343.1	1332.8	1305.9
7.5°	1370.0	1363.8	1374.2	1384.5	1403.1	1413.5	1417.6	1409.4	1413.5	1392.8	1357.6
10°	1289.3	1285.2	1312.1	1351.4	1405.2	1452.8	1483.9	1485.9	1492.1	1471.4	1430.0
12.5°	1117.5	1109.3	1163.1	1237.6	1347.3	1457.0	1543.9	1577.0	1591.5	1583.2	1525.2
15°	958.2	968.5	1005.8	1086.5	1233.4	1401.1	1577.0	1686.7	1707.4	1717.7	1649.4
17.5°	941.6	943.7	956.1	995.4	1107.2	1310.0	1581.1	1800.5	1829.5	1875.0	1781.9
20°	987.2	983.0	995.4	1007.9	1061.7	1229.3	1541.8	1910.2	1966.1	2063.3	1961.9
22.5°	1072.0	1072.0	1078.2	1086.5	1113.4	1223.1	1525.2	2011.6	2106.8	2305.5	2187.5
25°	1214.8	1198.3	1202.4	1192.1	1214.8	1297.6	1562.5	2092.3	2222.7	2574.5	2456.5
27.5°	1436.3	1442.5	1405.2	1349.3	1361.8	1432.1	1653.6	2183.4	2342.7	2853.9	2729.7
30°	1742.5	1732.2	1709.4	1599.7	1550.1	1612.2	1821.2	2332.4	2504.1	3207.8	3094.0
32.5°	1982.6	2011.6	1972.3	1895.7	1819.1	1837.7	2057.1	2572.4	2700.7	3532.7	3470.6
35°	2272.3	2272.3	2280.6	2173.0	2121.3	2117.1	2353.1	2833.2	2961.5	3826.6	3870.0
37.5°	2663.5	2636.6	2591.1	2471.0	2431.7	2483.4	2630.4	3102.2	3240.9	4064.6	4180.5
40°	2992.5	3011.2	3005.0	2831.1	2754.5	2810.4	2940.8	3331.9	3439.6	4217.7	4430.9
42.5°	3315.4	3325.7	3298.8	3216.1	3104.3	3108.4	3216.1	3505.8	3615.5	4364.6	4666.8
45°	3557.5	3555.5	3536.8	3516.1	3449.9	3381.6	3400.2	3698.3	3793.5	4412.2	4795.1
47.5°	3634.1	3650.7	3667.2	3725.2	3770.7	3663.1	3567.9	3801.7	3888.7	4404.0	4842.7
50°	3563.7	3598.9	3679.6	3766.6	3921.8	3913.5	3708.6	3913.5	3998.3	4449.5	4898.6
52.5°	3406.5	3441.6	3549.3	3706.5	3940.4	4056.3	3969.4	4101.8	4201.2	4565.4	5014.5
55°	3040.1	3054.6	3276.1	3483.0	3847.3	3994.2	4248.8	4420.5	4503.3	4706.1	5167.6
57.5°	2475.2	2510.3	2727.6	3065.0	3586.5	3830.7	4408.1	4964.8	4962.7	4840.6	5200.7
60°	*1628.7*	*1732.2*	*2086.1*	*2458.6*	*3081.5*	*3509.9*	*4397.8*	*5602.2*	*5666.4*	*4708.2*	*4801.3*
62.5°	1243.8	1287.2	1488.0	1798.4	2280.6	2909.8	4329.5	5792.6	5842.3	4352.2	4203.2
65°	935.4	989.2	1181.7	1459.0	1610.1	1972.3	3882.4	5035.2	5103.5	3884.5	3267.8
67.5°	573.3	616.7	873.3	1198.3	1219.0	1225.2	2620.0	3814.2	3839.0	3133.3	2199.9
70°	382.9	426.3	604.3	920.9	970.6	705.7	1438.3	2887.0	2884.9	2144.0	1336.9
72.5°	221.4	242.1	382.9	678.8	763.7	449.1	718.1	1835.7	1755.0	1007.9	625.0
75°	126.2	140.7	211.1	436.7	536.0	285.6	283.5	983.0	869.2	519.5	341.5
77.5°	76.6	82.8	115.9	285.6	322.8	192.5	157.3	457.4	440.8	304.2	180.0
80°	37.3	43.5	70.4	167.6	207.0	103.5	95.2	180.0	192.5	167.6	95.2
82.5°	12.4	16.6	39.3	64.2	134.5	41.4	39.3	99.3	105.5	99.3	45.5
85°	6.2	8.3	18.6	20.7	51.7	20.7	14.5	43.5	53.8	33.1	18.6
87.5°	0.0	2.1	2.1	2.1	2.1	2.1	2.1	4.1	4.1	4.1	4.1
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°	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6
2.5°	1270.7	1266.6	1258.3	1243.8	1241.7	1231.4	1214.8	1204.5	1196.2	1202.4	1204.5
5°	1293.5	1283.1	1258.3	1219.0	1177.6	1136.2	1096.9	1051.3	1020.3	1016.1	1007.9
7.5°	1334.8	1314.2	1260.3	1183.8	1078.2	978.9	863.0	751.2	695.4	687.1	668.5
10°	1401.1	1365.9	1276.9	1121.7	918.9	711.9	536.0	416.0	347.7	335.3	339.4
12.5°	1479.7	1430.0	1279.0	1016.1	699.5	440.8	304.2	258.7	244.2	238.0	238.0
15°	1581.1	1508.7	1276.9	879.6	471.9	283.5	244.2	225.6	219.4	215.2	215.2
17.5°	1709.4	1614.2	1262.4	674.7	318.7	246.3	223.5	209.0	200.7	198.7	198.7
20°	1860.5	1732.2	1229.3	502.9	267.0	229.7	211.1	192.5	186.3	182.1	182.1
22.5°	2053.0	1875.0	1165.1	391.1	252.5	219.4	198.7	178.0	171.8	167.6	167.6
25°	2276.5	2057.1	1080.3	351.8	250.4	211.1	186.3	165.6	159.4	157.3	155.2
27.5°	2541.4	2251.7	1001.7	353.9	254.6	204.9	173.8	155.2	149.0	142.8	144.9
30°	2853.9	2452.4	937.5	378.7	258.7	198.7	165.6	149.0	142.8	134.5	134.5
32.5°	3162.2	2688.3	931.3	424.3	273.2	194.5	157.3	140.7	134.5	128.3	128.3
35°	3478.9	2903.6	966.5	484.3	302.2	188.3	146.9	132.5	126.2	122.1	120.0
37.5°	3781.0	3075.3	999.6	521.5	285.6	161.4	134.5	122.1	115.9	107.6	107.6
40°	3981.8	3168.5	1005.8	492.5	235.9	144.9	122.1	109.7	101.4	97.3	95.2
42.5°	4128.7	3228.5	935.4	399.4	204.9	132.5	111.8	99.3	93.1	89.0	89.0
45°	4188.7	3207.8	815.4	304.2	188.3	122.1	101.4	91.1	86.9	82.8	82.8
47.5°	4180.5	3112.6	693.3	244.2	171.8	111.8	95.2	86.9	82.8	78.6	76.6
50°	4166.0	3023.6	569.1	217.3	153.1	105.5	89.0	82.8	76.6	72.4	70.4
52.5°	4261.2	2994.6	471.9	198.7	142.8	101.4	86.9	78.6	72.4	68.3	68.3
55°	4356.4	3007.0	370.4	186.3	132.5	99.3	84.9	76.6	70.4	64.2	64.2
57.5°	4350.2	2953.2	281.5	173.8	124.2	97.3	82.8	74.5	64.2	60.0	60.0
60°	*3954.9*	*2634.5*	*219.4*	*159.4*	*113.8*	*91.1*	*76.6*	*70.4*	*60.0*	*53.8*	*53.8*
62.5°	3344.4	2071.6	180.0	140.7	101.4	82.8	70.4	64.2	53.8	43.5	43.5
65°	2471.0	1494.2	144.9	122.1	93.1	72.4	64.2	55.9	43.5	35.2	33.1
67.5°	1672.2	918.9	115.9	101.4	82.8	62.1	53.8	47.6	39.3	29.0	26.9
70°	991.3	488.4	84.9	70.4	62.1	45.5	45.5	41.4	33.1	24.8	22.8
72.5°	471.9	169.7	62.1	51.7	47.6	33.1	35.2	35.2	26.9	18.6	16.6
75°	240.1	82.8	41.4	37.3	31.0	24.8	29.0	26.9	18.6	12.4	12.4
77.5°	136.6	57.9	29.0	24.8	20.7	16.6	18.6	16.6	10.3	6.2	6.2
80°	76.6	41.4	18.6	16.6	12.4	10.3	10.3	8.3	6.2	2.1	2.1
82.5°	29.0	24.8	12.4	8.3	6.2	6.2	4.1	4.1	2.1	0.0	0.0
85°	12.4	6.2	6.2	4.1	4.1	2.1	2.1	2.1	0.0	0.0	0.0
87.5°	2.1	2.1	2.1	2.1	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°	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6
2.5°	1187.9	1192.1	1196.2	1212.7	1216.9	1229.3	1239.7	1252.1	1254.1	1270.7	1270.7
5°	1024.4	1022.3	1057.5	1109.3	1142.4	1187.9	1223.1	1260.3	1281.0	1307.9	1320.4
7.5°	678.8	730.5	809.2	900.2	1018.2	1127.9	1210.7	1283.1	1332.8	1363.8	1376.2
10°	337.3	366.3	449.1	598.1	798.8	1022.3	1198.3	1332.8	1413.5	1448.7	1471.4
12.5°	238.0	244.2	258.7	339.4	531.9	848.5	1158.9	1386.6	1498.3	1564.6	1593.5
15°	213.2	217.3	223.5	246.3	329.1	633.3	1088.6	1446.6	1630.8	1707.4	1744.6
17.5°	196.6	198.7	204.9	223.5	258.7	430.5	974.8	1510.8	1790.1	1883.3	1953.6
20°	182.1	182.1	188.3	211.1	240.1	331.1	811.3	1583.2	1993.0	2127.5	2197.8
22.5°	165.6	169.7	173.8	198.7	233.9	302.2	658.1	1639.1	2218.5	2382.0	2464.8
25°	153.1	157.3	161.4	186.3	227.6	302.2	569.1	1674.3	2471.0	2665.6	2779.4
27.5°	142.8	146.9	153.1	178.0	221.4	314.6	533.9	1684.6	2746.3	2998.8	3151.9
30°	134.5	138.7	144.9	171.8	225.6	329.1	546.4	1670.1	3025.7	3342.3	3524.4
32.5°	126.2	130.4	136.6	165.6	225.6	347.7	587.7	1641.1	3296.8	3685.8	3909.3
35°	120.0	122.1	124.2	149.0	204.9	345.6	639.5	1612.2	3569.9	4025.2	4286.0
37.5°	107.6	109.7	113.8	128.3	163.5	314.6	649.8	1577.0	3785.2	4310.8	4598.5
40°	95.2	99.3	103.5	118.0	136.6	254.6	604.3	1502.5	3899.0	4530.2	4880.0
42.5°	86.9	89.0	93.1	107.6	126.2	202.8	507.0	1372.1	4000.4	4679.2	5084.8
45°	80.7	82.8	86.9	97.3	118.0	175.9	399.4	1212.7	4008.7	4726.8	5184.2
47.5°	74.5	76.6	78.6	89.0	113.8	157.3	306.3	1067.9	4006.6	4788.9	5269.0
50°	70.4	72.4	76.6	84.9	107.6	140.7	252.5	949.9	4093.5	4923.4	5440.8
52.5°	68.3	68.3	74.5	82.8	101.4	128.3	211.1	844.4	4139.1	5055.9	5565.0
55°	64.2	66.2	70.4	78.6	95.2	122.1	180.0	711.9	4159.8	5122.1	5587.7
57.5°	60.0	62.1	68.3	74.5	91.1	115.9	155.2	531.9	3863.8	4776.5	5206.9
60°	*53.8*	*57.9*	*66.2*	*72.4*	*84.9*	*105.5*	*136.6*	*360.1*	*3259.5*	*4151.5*	*4511.6*
62.5°	43.5	51.7	60.0	64.2	76.6	89.0	115.9	240.1	2603.5	3435.4	3845.2
65°	33.1	43.5	49.7	55.9	64.2	74.5	97.3	163.5	1736.3	2311.7	2773.2
67.5°	29.0	37.3	41.4	45.5	53.8	64.2	78.6	113.8	1053.4	1388.7	1844.0
70°	22.8	31.0	35.2	33.1	41.4	49.7	55.9	76.6	538.1	753.3	1049.3
72.5°	16.6	24.8	26.9	26.9	24.8	35.2	41.4	53.8	233.9	366.3	476.0
75°	12.4	16.6	18.6	16.6	14.5	22.8	29.0	35.2	153.1	219.4	277.3
77.5°	6.2	6.2	10.3	10.3	6.2	12.4	14.5	20.7	86.9	128.3	159.4
80°	2.1	0.0	0.0	2.1	0.0	4.1	6.2	10.3	45.5	68.3	99.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	22.8	20.7	51.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	12.4
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: P1501882
CATALOG NUMBER: GSS-SB2B-827-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	1266.6	*1266.6*	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6
2.5°	1281.0	*1281.0*	1289.3	1301.7	1307.9	1312.1	1314.2	1318.3	1334.8	1330.7
5°	1334.8	*1339.0*	1345.2	1357.6	1372.1	1368.0	1368.0	1368.0	1378.3	1370.0
7.5°	1405.2	*1417.6*	1419.7	1434.2	1423.8	1403.1	1390.7	1372.1	1370.0	1370.0
10°	1519.0	*1514.9*	1514.9	1496.3	1459.0	1399.0	1345.2	1307.9	1287.2	1289.3
12.5°	1641.1	*1624.6*	1626.7	1558.4	1452.8	1320.4	1210.7	1130.0	1123.8	1117.5
15°	1792.2	*1748.8*	1740.5	1583.2	1359.7	1156.9	1049.3	985.1	964.4	958.2
17.5°	2007.4	*1897.8*	1858.4	1539.7	1237.6	1055.5	974.8	945.8	943.7	941.6
20°	2235.1	*2017.8*	1943.3	1475.6	1196.2	1057.5	997.5	989.2	985.1	987.2
22.5°	2500.0	*2094.4*	1999.2	1485.9	1233.4	1125.8	1078.2	1072.0	1067.9	1072.0
25°	2773.2	*2183.4*	2065.4	1568.7	1345.2	1252.1	1196.2	1183.8	1196.2	1214.8
27.5°	3048.4	*2303.4*	2195.8	1732.2	1525.2	1423.8	1370.0	1415.6	1434.2	1436.3
30°	3292.6	*2471.0*	2371.7	1961.9	1730.1	1628.7	1639.1	1697.0	1719.8	1742.5
32.5°	3516.1	*2694.5*	2618.0	2222.7	1995.0	1935.0	1928.8	1972.3	1997.1	1982.6
35°	3741.7	*2986.3*	2911.8	2506.2	2319.9	2270.3	2218.5	2303.4	2295.1	2272.3
37.5°	3954.9	*3280.2*	3211.9	2810.4	2618.0	2531.0	2522.8	2599.3	2667.6	2663.5
40°	4108.0	*3518.2*	3435.4	3112.6	2930.5	2856.0	2899.4	3031.9	3015.3	2992.5
42.5°	4248.8	*3721.0*	3646.5	3377.5	3187.1	3220.2	3259.5	3348.5	3338.2	3315.4
45°	4315.0	*3894.9*	3830.7	3578.2	3485.1	3590.6	3588.6	3621.7	3565.8	3557.5
47.5°	4408.1	*4019.0*	3952.8	3758.3	3841.1	3884.5	3762.4	3727.2	3675.5	3634.1
50°	4579.9	*4211.5*	4145.3	4031.5	4101.8	3967.3	3818.3	3741.7	3636.2	3563.7
52.5°	4780.6	*4503.3*	4445.4	4399.8	4203.2	3925.9	3735.5	3596.8	3468.5	3406.5
55°	5033.1	*4933.8*	4892.4	4642.0	4112.2	3756.2	3532.7	3274.0	3098.1	3040.1
57.5°	5115.9	*5565.0*	5550.5	4681.3	3857.6	3447.8	3044.3	2694.5	2512.4	2475.2
60°	*4871.7*	*6059.6*	*6007.9*	*4615.1*	*3396.1*	*2798.0*	*2326.2*	*1968.1*	*1672.2*	*1628.7*
62.5°	4559.2	*5680.9*	5662.2	4281.9	2586.9	2005.4	1738.4	1403.1	1276.9	1243.8
65°	3905.2	*4648.2*	4656.5	3435.4	1637.0	1440.4	1428.0	1115.5	960.3	935.4
67.5°	3007.0	*3565.8*	3507.9	2160.6	954.1	1152.7	1140.3	815.4	589.8	573.3
70°	1757.0	*2655.2*	2562.1	1123.8	631.2	962.3	877.5	573.3	401.5	382.9
72.5°	776.1	*1461.1*	1568.7	494.6	444.9	765.7	633.3	351.8	225.6	221.4
75°	430.5	*724.3*	757.4	215.2	312.5	544.3	382.9	196.6	128.3	126.2
77.5°	258.7	*320.8*	312.5	138.7	233.9	347.7	231.8	111.8	80.7	76.6
80°	144.9	*146.9*	124.2	101.4	138.7	194.5	130.4	70.4	37.3	37.3
82.5°	89.0	*80.7*	64.2	31.0	37.3	118.0	47.6	39.3	12.4	12.4
85°	37.3	*24.8*	16.6	6.2	14.5	31.0	16.6	18.6	6.2	6.2
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: SP1-2407-184-8

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-827-U-5WQ

Data in this report applies to families of products including GSS-SB1A-827-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

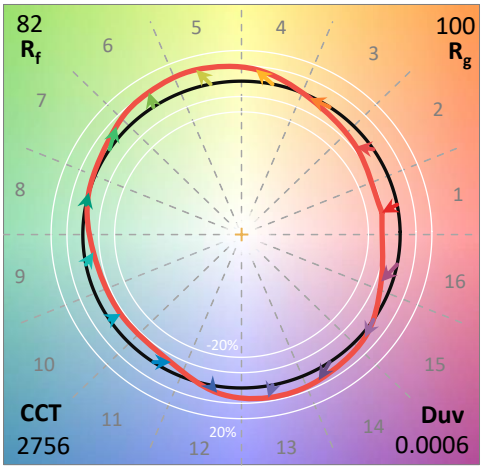
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-8
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-827-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 2700K CCT 26 LEDS

Spectral Parameters

CCT (K):	2756
CIE u':	0.2599
CIE v':	0.5271
Duv:	0.0006
CIE x:	0.4563
CIE y:	0.4112
CIE z:	0.1325
Peak Wavelength (nm):	609
Dominant Wavelength (nm):	583
Purity:	60.41121
Rf:	82.2
Rg:	99.9

CRI (Ra):	82.9
R1:	81.6
R2:	88.8
R3:	96.0
R4:	83.4
R5:	81.4
R6:	87.0
R7:	84.0
R8:	60.8
R9:	10.8
R10:	74.8
R11:	84.3
R12:	72.1
R13:	82.9
R14:	97.3
R15:	73.7



Test Conditions

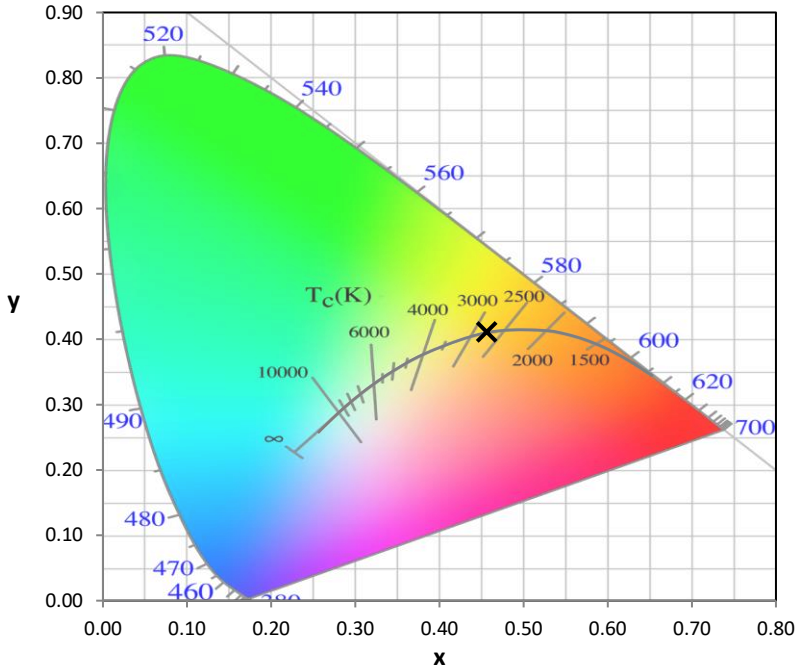
Stabilization Time:	29M
Operation Time:	1H 29M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-8

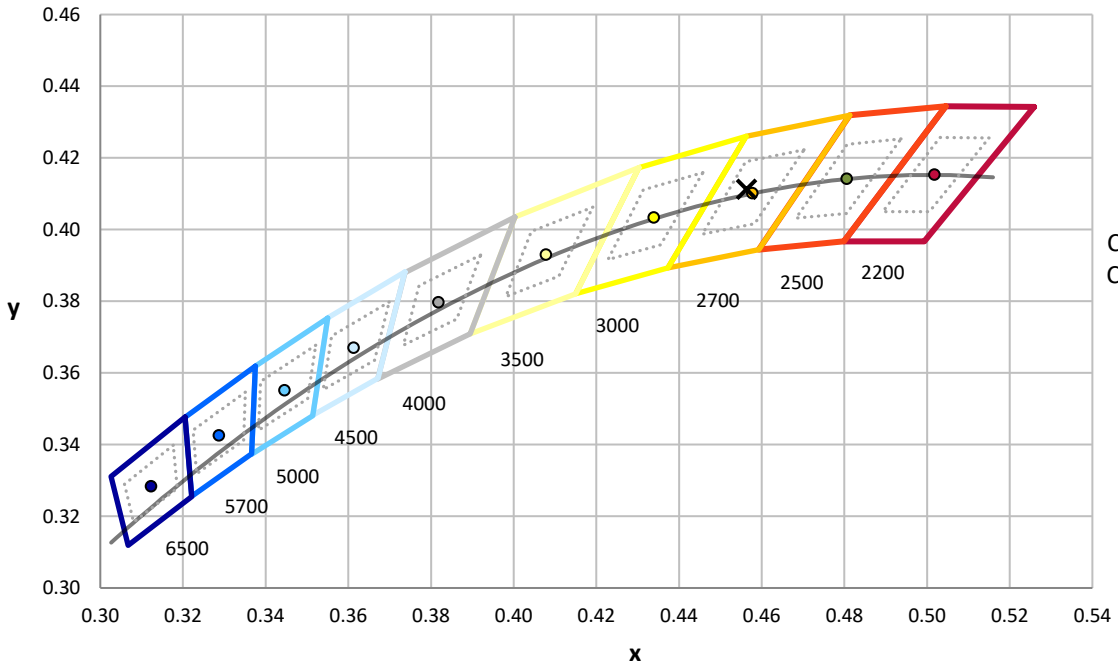
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-8

CIE 1931 Chromaticity Diagram



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

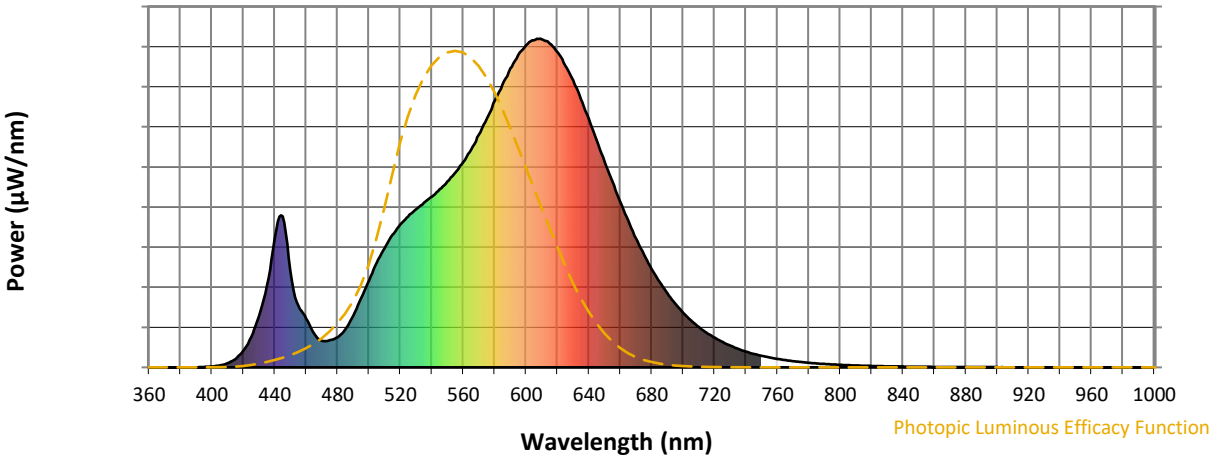


CCT = 2756K
CIE x = 0.4563
CIE y = 0.4112
Duv = 0.0006

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-8

Photopic Flux vs. Wavelength

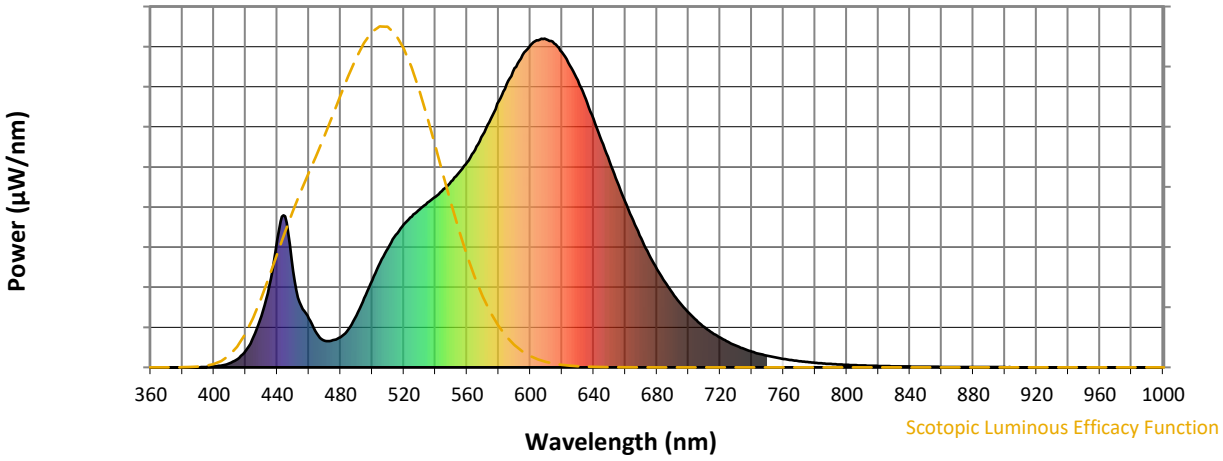


Photopic Lumens: NR

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

Scotopic Flux vs. Wavelength

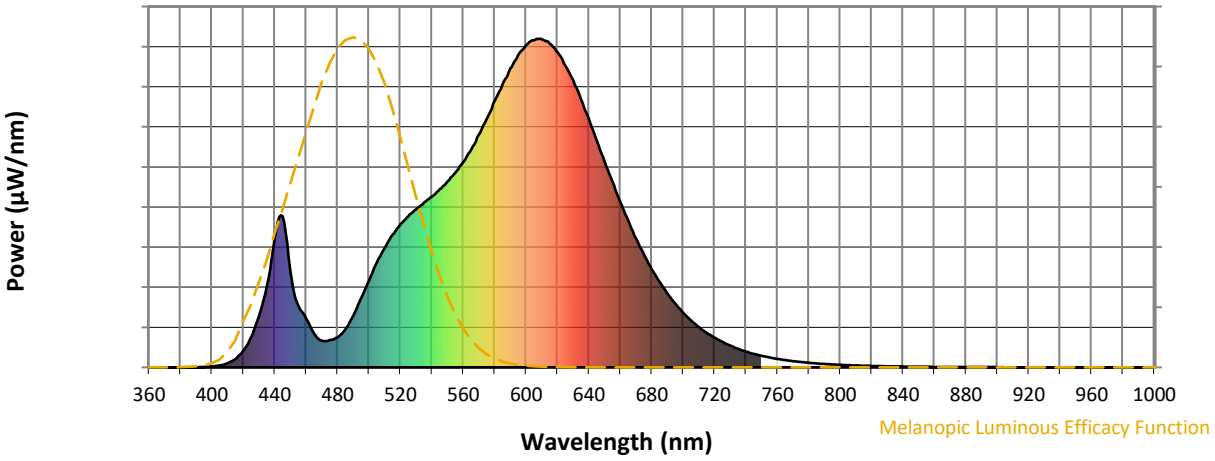


Scotopic Lumens: NR **S/P: 1.2**

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.16**

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

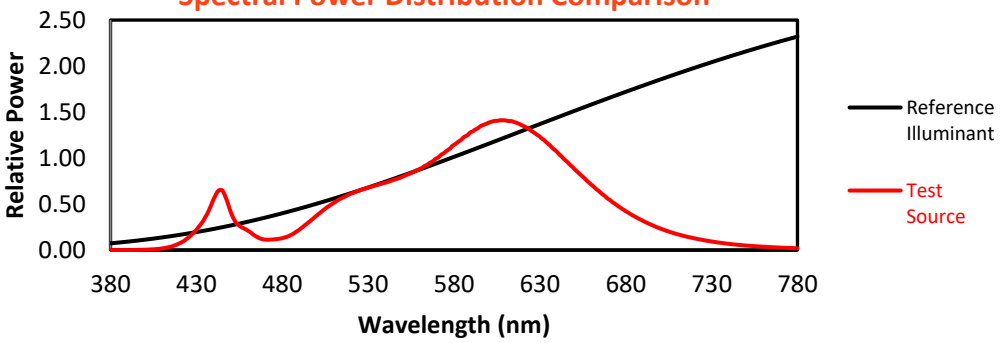
REPORT NUMBER: SP1-2407-184-8

TM-30-18

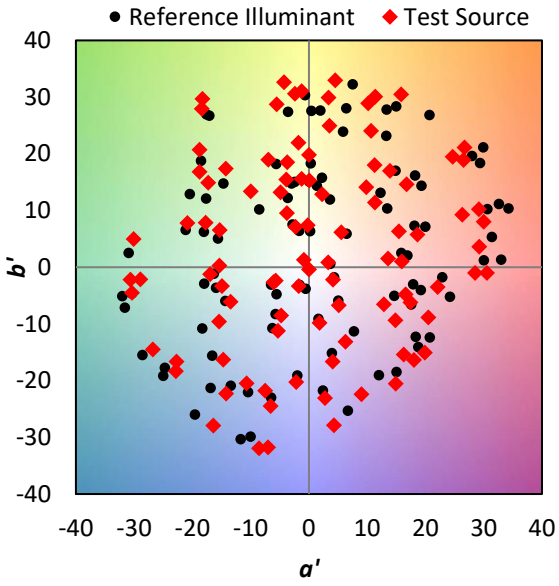
Summary

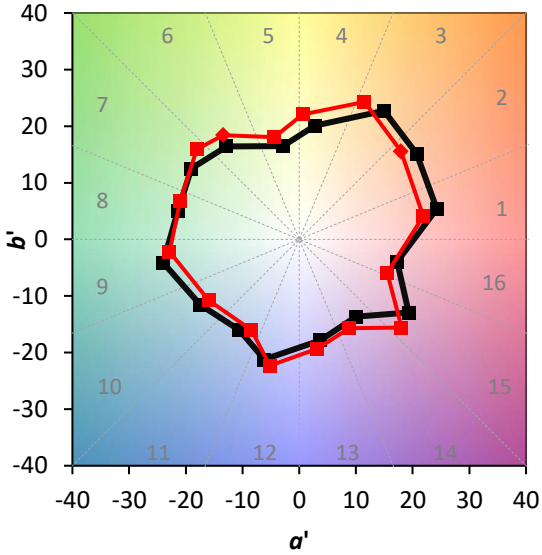
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R_g = 99.9
CIE R_a = 82.9
R_9 = 10.8

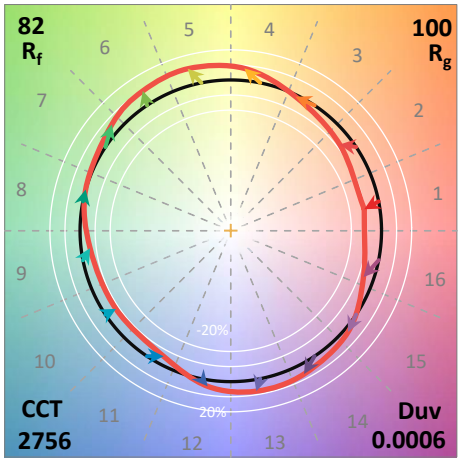
Spectral Power Distribution Comparison

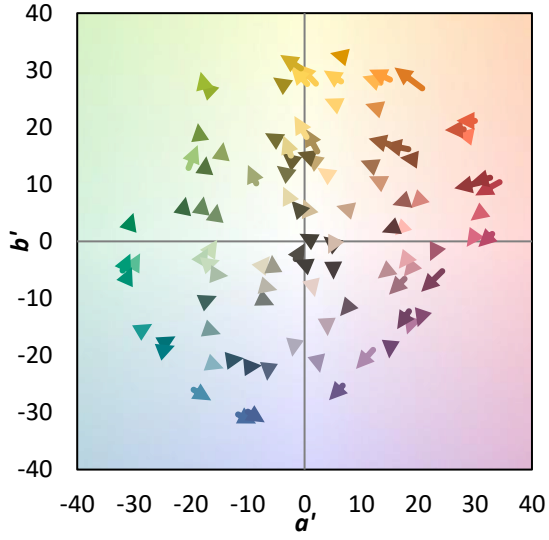


Color Vector Graphics







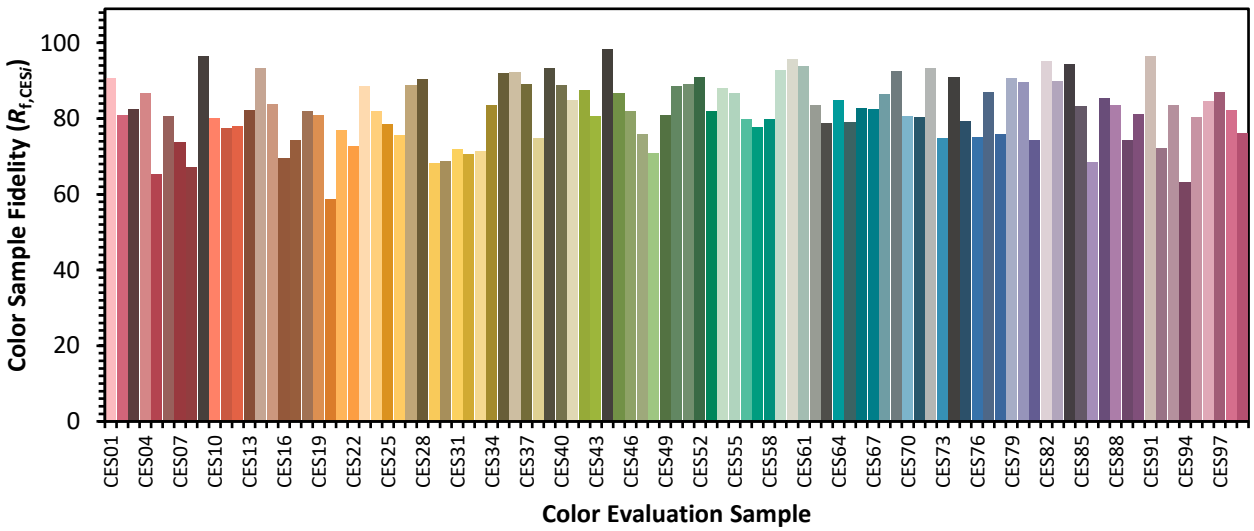


REPORT NUMBER: SP1-2407-184-8

TM-30-18

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

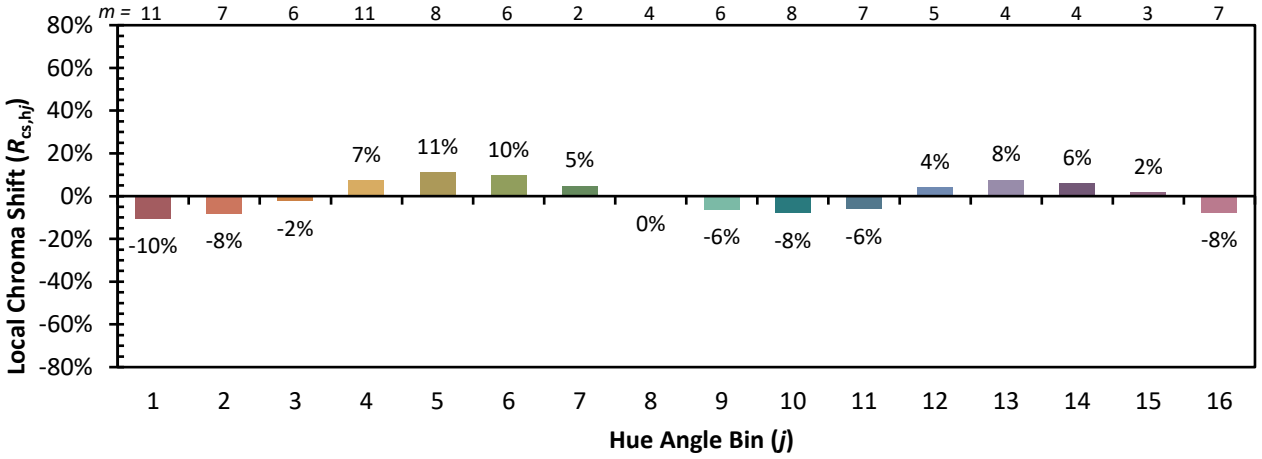
CES01 = 86	CES26 = 76	CES51 = 89	CES76 = 75
CES02 = 63	CES27 = 89	CES52 = 91	CES77 = 87
CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 78	CES82 = 95
CES08 = 42	CES33 = 71	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 84	CES59 = 93	CES84 = 94
CES10 = 77	CES35 = 92	CES60 = 96	CES85 = 83
CES11 = 59	CES36 = 92	CES61 = 94	CES86 = 69
CES12 = 66	CES37 = 89	CES62 = 84	CES87 = 85
CES13 = 44	CES38 = 75	CES63 = 79	CES88 = 84
CES14 = 74	CES39 = 93	CES64 = 85	CES89 = 74
CES15 = 72	CES40 = 89	CES65 = 79	CES90 = 81
CES16 = 48	CES41 = 85	CES66 = 83	CES91 = 96
CES17 = 50	CES42 = 88	CES67 = 82	CES92 = 72
CES18 = 57	CES43 = 81	CES68 = 86	CES93 = 84
CES19 = 73	CES44 = 98	CES69 = 92	CES94 = 63
CES20 = 67	CES45 = 87	CES70 = 81	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 81	CES96 = 85
CES22 = 79	CES47 = 76	CES72 = 93	CES97 = 87
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CES24 = 91	CES49 = 81	CES74 = 91	CES99 = 76
CES25 = 72	CES50 = 88	CES75 = 79	

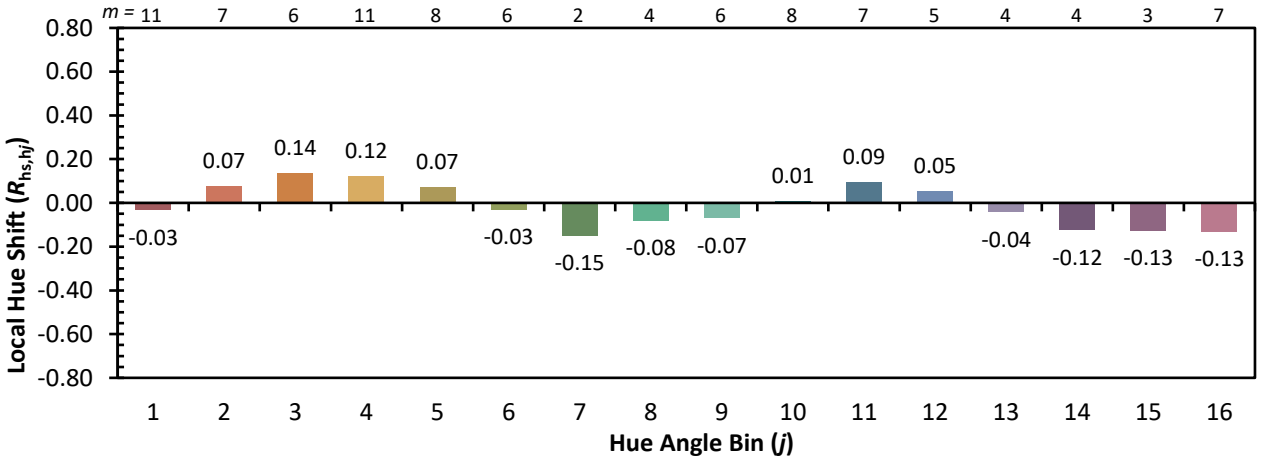


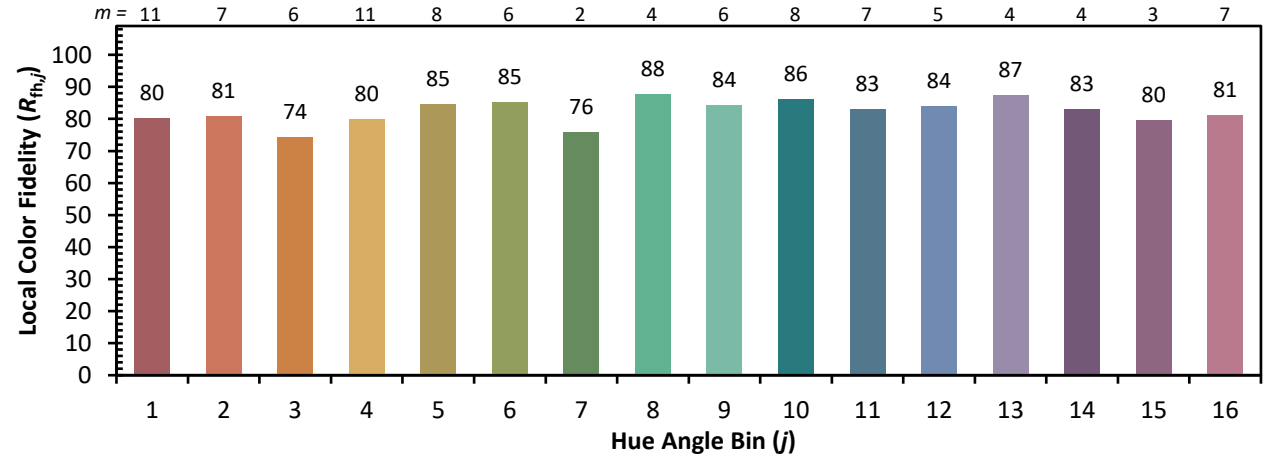
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Color Rendition by Hue-Angle Bin



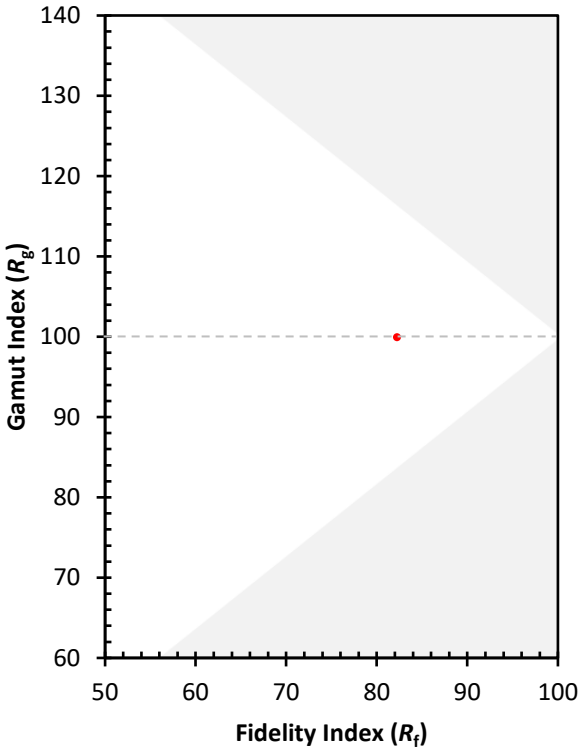


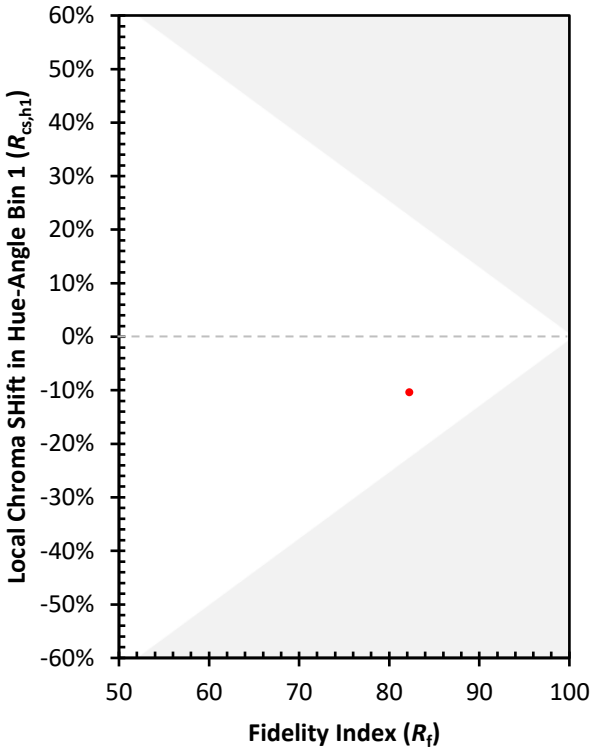


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Measure Comparisons





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