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: P1501502

Luminaire Tested: GSS-SB3B-827-U-T2LG

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:	P1501502
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB3B-827-U-T2LG
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 3SQUARE 109W 80CRI 2700K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE
Light Source:	(78) 2700K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	13677.7 lumens
Efficiency:	N/A
Efficacy:	125.5 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

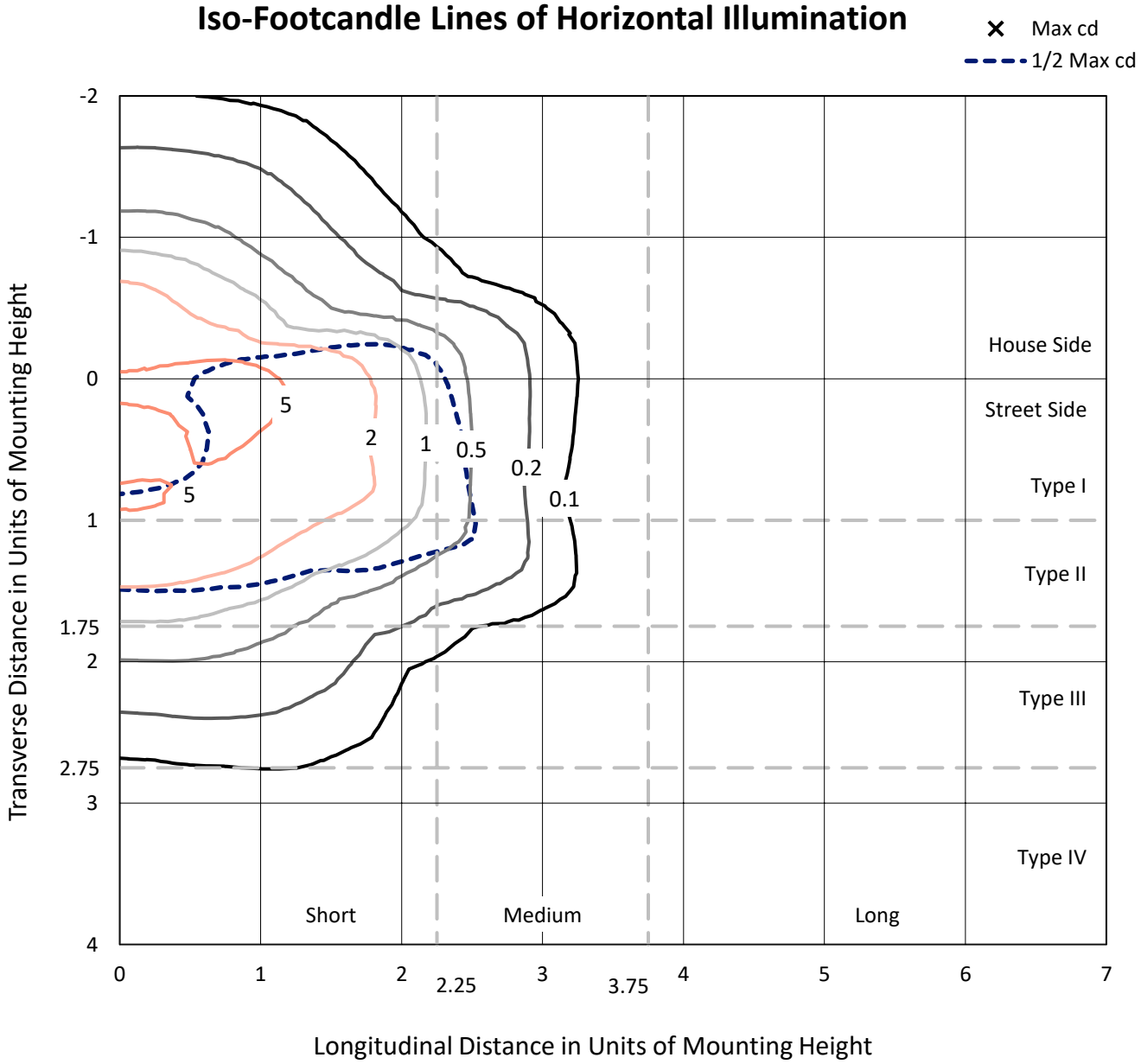
Input Watts (W):	109
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	8.7%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



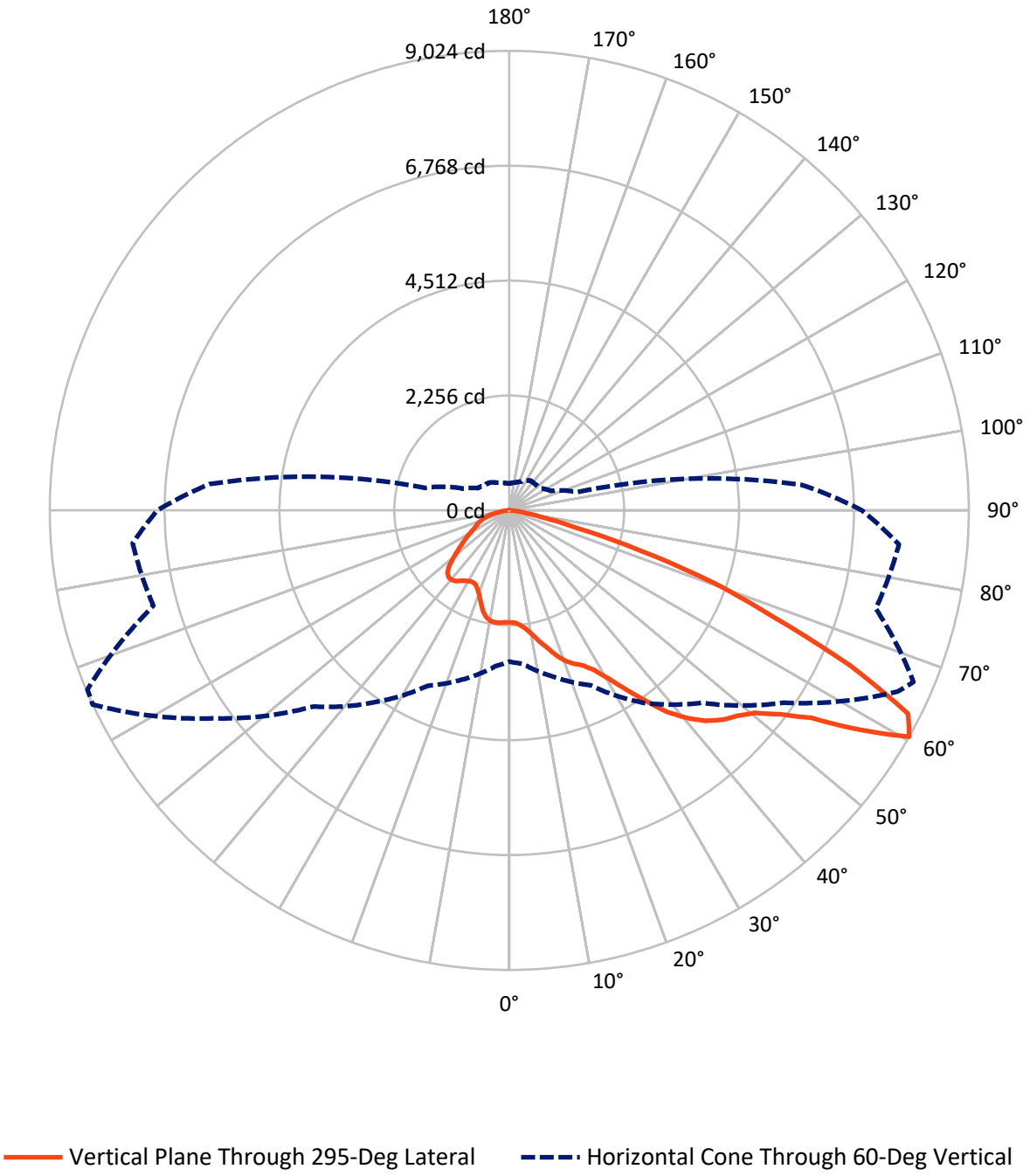
Based on 20 foot mounting height. Maximum calculated value = 8.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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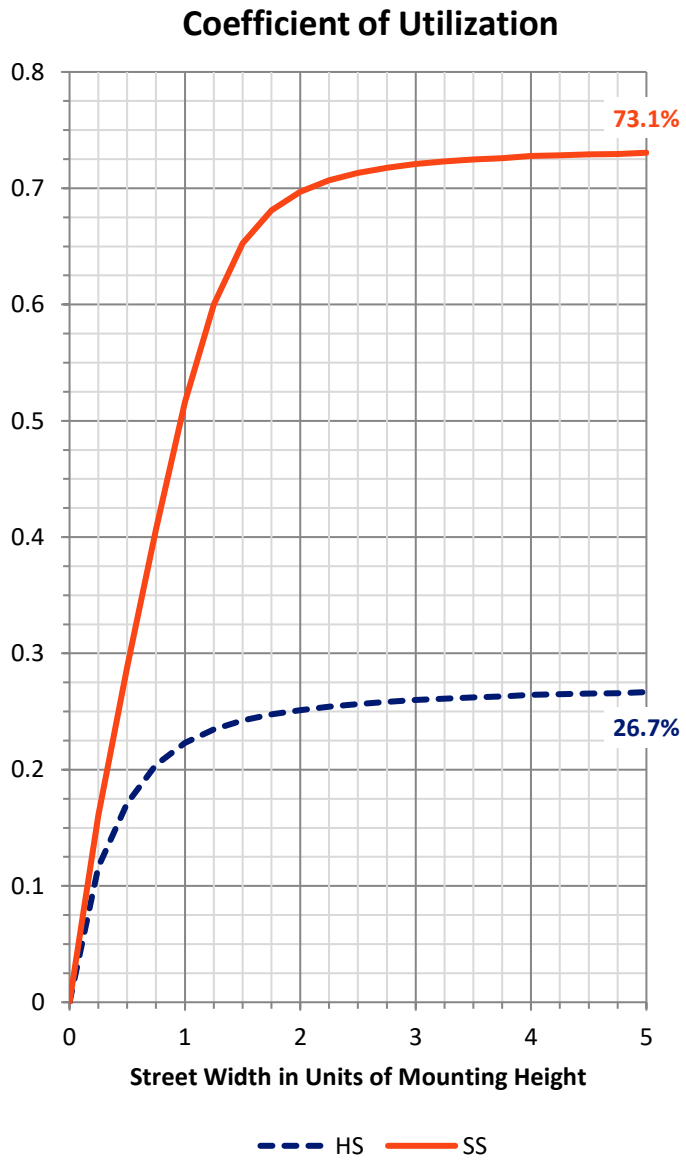
REPORT NUMBER: P1501502
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3678.1	0.0	3678.1
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	9999.6	0.0	9999.6
	% Fixture	73.1	0.0	73.1
Total	Lumens	13677.7	0.0	13677.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.9	1.5
10°-20°	594.8	4.3
20°-30°	1126.7	8.2
30°-40°	1986.3	14.5
40°-50°	2937.5	21.5
50°-60°	3449.4	25.2
60°-70°	2499.3	18.3
70°-80°	770.8	5.6
80°-90°	106.1	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°	13677.7	100.0
0°-180°	13677.7	100.0



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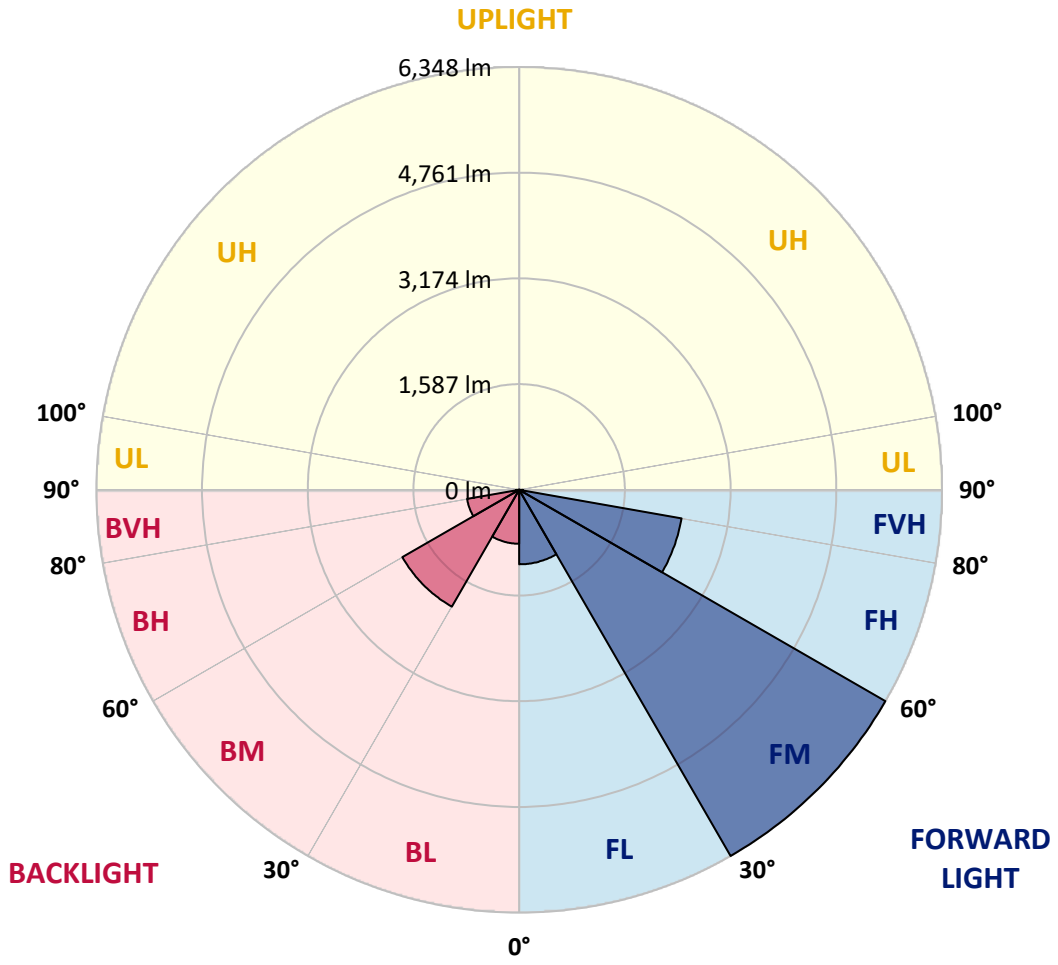
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1118.4	8.2			
FM	(30°-60°)	6347.9	46.4			
FH	(60°-80°)	2476.1	18.1			G2/5000
FVH	(80°-90°)	57.2	0.4			G1/100
BL	(0°-30°)	810.0	5.9	B2/1000		
BM	(30°-60°)	2025.3	14.8	B2/2500		
BH	(60°-80°)	793.9	5.8	B2/1000		G2/1000
BVH	(80°-90°)	48.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7
2.5°	2244.3	2250.6	2241.2	2247.4	2247.4	2238.1	2235.0	2222.5	2228.7	2225.6	2222.5
5°	2297.3	2300.4	2294.2	2303.5	2303.5	2306.7	2303.5	2288.0	2288.0	2288.0	2281.7
7.5°	2281.7	2281.7	2284.8	2316.0	2347.2	2387.7	2387.7	2381.5	2387.7	2384.6	2356.5
10°	2150.8	2163.3	2191.3	2269.3	2344.1	2431.4	2490.6	2509.3	2509.3	2512.4	2465.6
12.5°	1917.0	1926.4	1991.8	2110.3	2266.1	2425.1	2568.5	2662.0	2671.4	2687.0	2624.6
15°	1708.2	1714.4	1761.2	1882.7	2060.4	2341.0	2612.1	2805.4	2836.6	2902.0	2808.5
17.5°	1726.9	1723.8	1736.2	1783.0	1910.8	2203.8	2602.8	2973.7	3029.8	3145.2	3064.1
20°	1839.1	1839.1	1848.4	1857.8	1904.6	2104.1	2534.2	3110.9	3220.0	3444.4	3350.9
22.5°	2016.8	2016.8	2013.7	2029.2	2029.2	2147.7	2537.3	3213.7	3375.8	3777.9	3687.5
25°	2263.0	2250.6	2250.6	2256.8	2228.7	2312.9	2615.3	3319.7	3531.7	4173.8	4095.9
27.5°	2540.4	2549.8	2543.6	2521.7	2484.3	2549.8	2802.3	3484.9	3706.3	4591.5	4560.3
30°	2842.8	2845.9	2852.2	2839.7	2808.5	2855.3	3095.3	3734.3	3936.9	5027.9	5096.5
32.5°	3138.9	3182.6	3167.0	3135.8	3148.3	3232.4	3456.9	4071.0	4279.8	5433.1	5676.3
35°	3516.1	3531.7	3594.0	3478.7	3481.8	3625.2	3918.2	4513.6	4716.2	5853.9	6256.1
37.5°	4064.7	4092.8	4064.7	3883.9	3855.9	4055.4	4367.1	4950.0	5096.5	6171.9	6795.3
40°	4604.0	4638.3	4685.0	4473.1	4295.4	4460.6	4791.0	5283.5	5436.2	6346.4	7153.8
42.5°	5049.7	5105.8	5056.0	4993.6	4831.5	4862.7	5087.1	5542.2	5695.0	6567.8	7515.4
45°	5426.9	5436.2	5458.1	5414.4	5333.4	5305.3	5339.6	5769.8	5938.1	6667.5	7693.0
47.5°	5582.8	5623.3	5642.0	5716.8	5801.0	5744.8	5554.7	5875.8	6028.5	6661.3	7749.1
50°	5498.6	5539.1	5638.9	5816.5	6019.2	6118.9	5807.2	6022.3	6193.7	6773.5	7864.5
52.5°	5277.3	5320.9	5483.0	5685.6	6025.4	6252.9	6162.5	6327.7	6493.0	6973.0	8057.7
55°	4741.1	4806.6	5034.1	5370.8	5838.4	6181.2	6536.6	6776.6	6957.4	7213.0	8257.2
57.5°	3961.9	4030.4	4286.0	4791.0	5492.4	5885.1	6645.7	7618.2	7699.3	7499.8	8275.9
60°	*2967.5*	*3023.6*	*3385.2*	*3790.4*	*4613.3*	*5342.7*	*6583.3*	*8416.2*	*8621.9*	*7449.9*	*7680.6*
62.5°	2350.3	2418.9	2739.9	2927.0	3516.1	4413.8	6365.2	8637.5	8815.2	7038.4	6851.4
65°	1836.0	1882.7	2182.0	2450.1	2593.4	3014.3	5455.0	7555.9	7714.9	6368.3	5654.4
67.5°	1212.6	1284.3	1639.6	2007.4	2082.2	1917.0	3753.0	5813.4	5888.2	5062.2	4251.7
70°	869.7	904.0	1168.9	1561.7	1673.9	1284.3	2044.8	4401.4	4423.2	3397.7	2864.6
72.5°	592.3	598.5	794.9	1197.0	1334.1	932.0	1125.3	2898.9	2824.1	1677.0	1639.6
75°	402.1	408.3	508.1	798.0	944.5	648.4	732.5	1580.4	1518.0	925.8	994.4
77.5°	271.2	277.4	349.1	536.1	629.7	448.9	536.1	835.4	819.8	614.1	533.0
80°	205.7	215.1	258.7	342.9	439.5	261.8	305.5	395.9	402.1	327.3	271.2
82.5°	115.3	127.8	155.9	174.6	283.7	146.5	146.5	236.9	227.5	202.6	146.5
85°	49.9	53.0	62.3	65.5	115.3	62.3	53.0	102.9	106.0	99.7	46.8
87.5°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	12.5	12.5	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7
2.5°	2206.9	2225.6	2206.9	2197.6	2197.6	2182.0	2175.7	2175.7	2153.9	2163.3	2157.0
5°	2256.8	2263.0	2241.2	2213.2	2175.7	2144.6	2100.9	2044.8	2010.5	2007.4	2010.5
7.5°	2334.7	2337.8	2278.6	2216.3	2122.8	2010.5	1876.5	1767.4	1670.8	1655.2	1673.9
10°	2443.8	2437.6	2350.3	2203.8	2007.4	1770.5	1564.8	1465.0	1408.9	1405.8	1402.7
12.5°	2590.3	2549.8	2415.8	2150.8	1807.9	1533.6	1427.6	1421.4	1437.0	1449.5	1452.6
15°	2758.6	2705.7	2468.8	2047.9	1605.3	1446.3	1452.6	1505.6	1524.3	1536.7	1536.7
17.5°	2967.5	2898.9	2528.0	1901.4	1502.4	1465.0	1508.7	1558.6	1589.7	1602.2	1599.1
20°	3244.9	3101.5	2574.7	1761.2	1474.4	1496.2	1533.6	1583.5	1614.7	1630.3	1630.3
22.5°	3522.3	3344.7	2584.1	1664.5	1474.4	1499.3	1533.6	1583.5	1617.8	1633.4	1630.3
25°	3899.5	3656.4	2587.2	1596.0	1477.5	1483.7	1514.9	1558.6	1608.4	1624.0	1630.3
27.5°	4301.6	3999.3	2602.8	1580.4	1465.0	1461.9	1483.7	1524.3	1574.1	1614.7	1617.8
30°	4800.4	4385.8	2609.0	1596.0	1468.2	1427.6	1443.2	1483.7	1536.7	1577.3	1589.7
32.5°	5289.7	4744.2	2596.6	1630.3	1474.4	1405.8	1408.9	1433.9	1490.0	1518.0	1539.9
35°	5807.2	5124.5	2574.7	1677.0	1477.5	1396.5	1368.4	1380.9	1418.3	1421.4	1430.8
37.5°	6212.4	5408.2	2509.3	1739.4	1483.7	1362.2	1306.1	1296.7	1281.1	1250.0	1256.2
40°	6545.9	5598.3	2400.2	1770.5	1468.2	1321.7	1228.1	1184.5	1125.3	1078.5	1087.9
42.5°	6786.0	5726.1	2269.3	1776.8	1443.2	1253.1	1137.7	1062.9	997.5	947.6	950.7
45°	6891.9	5713.7	2129.0	1730.0	1384.0	1168.9	1053.6	981.9	910.2	857.2	851.0
47.5°	6895.1	5592.1	1935.7	1617.8	1284.3	1072.3	975.7	897.7	838.5	801.1	798.0
50°	6920.0	5523.5	1754.9	1455.7	1153.3	969.4	907.1	829.2	794.9	741.9	726.3
52.5°	7075.9	5635.7	1630.3	1278.0	1031.8	894.6	847.9	779.3	723.2	688.9	685.8
55°	7328.3	5829.0	1561.7	1144.0	916.4	822.9	791.7	732.5	682.6	648.4	639.0
57.5°	7359.5	5928.8	1480.6	1019.3	822.9	766.8	754.3	688.9	617.2	592.3	582.9
60°	*6923.1*	*5760.4*	*1380.9*	*904.0*	*754.3*	*723.2*	*716.9*	*629.7*	*570.4*	*539.3*	*526.8*
62.5°	6327.7	5339.6	1228.1	798.0	701.4	679.5	654.6	586.0	511.2	476.9	467.6
65°	5171.3	4488.6	1044.2	726.3	648.4	623.4	617.2	523.7	473.8	455.1	452.0
67.5°	3918.2	3606.5	919.5	673.3	592.3	582.9	561.1	529.9	508.1	486.3	480.0
70°	2771.1	2602.8	782.4	604.7	536.1	520.6	611.0	576.7	498.7	470.7	467.6
72.5°	1680.1	1633.4	676.4	542.4	461.3	486.3	564.2	520.6	448.9	414.6	402.1
75°	1059.8	969.4	567.3	461.3	367.8	395.9	492.5	464.5	386.5	352.2	342.9
77.5°	576.7	536.1	427.0	377.2	289.9	321.1	430.2	383.4	308.6	336.6	299.2
80°	252.5	280.5	283.7	218.2	193.3	236.9	308.6	299.2	236.9	240.0	199.5
82.5°	121.6	159.0	183.9	149.6	109.1	140.3	205.7	171.4	159.0	149.6	143.4
85°	37.4	59.2	81.0	71.7	49.9	59.2	96.6	93.5	112.2	96.6	90.4
87.5°	12.5	12.5	9.4	9.4	9.4	12.5	15.6	9.4	3.1	3.1	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°	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7
2.5°	2153.9	2157.0	2157.0	2160.2	2160.2	2169.5	2182.0	2194.4	2185.1	2197.6	2200.7
5°	2004.3	2019.9	2032.4	2079.1	2116.5	2147.7	2182.0	2213.2	2222.5	2228.7	2244.3
7.5°	1652.1	1695.7	1776.8	1882.7	2001.2	2116.5	2194.4	2275.5	2288.0	2303.5	2325.4
10°	1405.8	1424.5	1480.6	1589.7	1801.7	2029.2	2219.4	2347.2	2400.2	2431.4	2453.2
12.5°	1446.3	1433.9	1424.5	1440.1	1577.3	1870.3	2203.8	2450.1	2549.8	2584.1	2612.1
15°	1543.0	1530.5	1496.2	1452.6	1468.2	1701.9	2150.8	2546.7	2705.7	2761.8	2821.0
17.5°	1599.1	1586.6	1558.6	1511.8	1471.3	1561.7	2051.1	2634.0	2951.9	3020.5	3104.6
20°	1630.3	1617.8	1589.7	1543.0	1496.2	1508.7	1923.3	2743.1	3232.4	3341.5	3466.2
22.5°	1636.5	1620.9	1589.7	1543.0	1514.9	1505.6	1801.7	2808.5	3534.8	3703.1	3846.5
25°	1633.4	1605.3	1564.8	1530.5	1514.9	1511.8	1717.5	2845.9	3862.1	4130.2	4292.3
27.5°	1611.5	1577.3	1536.7	1511.8	1505.6	1524.3	1680.1	2889.6	4245.5	4588.4	4847.1
30°	1586.6	1536.7	1486.9	1477.5	1493.1	1552.3	1711.3	2905.2	4647.6	5087.1	5352.1
32.5°	1521.2	1483.7	1433.9	1430.8	1468.2	1574.1	1783.0	2883.3	5003.0	5585.9	5919.4
35°	1427.6	1405.8	1377.8	1387.1	1446.3	1592.8	1832.9	2814.8	5327.2	6050.3	6440.0
37.5°	1262.4	1278.0	1293.6	1315.4	1390.2	1589.7	1854.7	2705.7	5595.2	6421.3	6920.0
40°	1078.5	1131.5	1181.4	1237.5	1337.2	1564.8	1860.9	2571.6	5751.1	6701.8	7347.0
42.5°	963.2	1013.1	1075.4	1156.4	1265.5	1508.7	1854.7	2422.0	5801.0	6895.1	7618.2
45°	857.2	916.4	994.4	1078.5	1203.2	1427.6	1798.6	2259.9	5825.9	6985.5	7733.6
47.5°	801.1	835.4	907.1	991.2	1122.2	1327.9	1689.5	2141.5	5788.5	7004.2	7873.8
50°	735.6	782.4	829.2	910.2	1038.0	1203.2	1558.6	2072.9	5850.8	7188.1	8095.1
52.5°	685.8	710.7	760.6	835.4	928.9	1087.9	1433.9	2016.8	6022.3	7375.1	8325.8
55°	648.4	676.4	707.6	769.9	841.6	972.5	1306.1	1932.6	6221.8	7574.6	8556.5
57.5°	589.1	607.8	651.5	716.9	763.7	860.3	1156.4	1832.9	6206.2	7418.7	8157.5
60°	*536.1*	*554.8*	*601.6*	*667.1*	*695.1*	*760.6*	*1009.9*	*1705.1*	*5906.9*	*6910.6*	*7421.9*
62.5°	476.9	498.7	554.8	601.6	626.5	676.4	857.2	1471.3	5283.5	6147.0	6561.5
65°	452.0	464.5	501.9	558.0	554.8	601.6	723.2	1156.4	4251.7	4697.5	5074.7
67.5°	480.0	498.7	492.5	508.1	498.7	523.7	648.4	928.9	3341.5	3537.9	3756.1
70°	473.8	517.4	539.3	508.1	436.4	464.5	561.1	741.9	2390.8	2372.1	2362.8
72.5°	414.6	458.2	520.6	551.7	427.0	386.5	486.3	642.1	1533.6	1527.4	1380.9
75°	352.2	383.4	458.2	498.7	367.8	311.7	417.7	545.5	916.4	928.9	829.2
77.5°	324.2	308.6	383.4	439.5	299.2	240.0	336.6	411.5	505.0	511.2	473.8
80°	233.8	224.4	286.8	321.1	227.5	171.4	190.1	255.6	271.2	243.1	252.5
82.5°	149.6	152.7	171.4	205.7	140.3	93.5	130.9	171.4	146.5	118.5	140.3
85°	96.6	109.1	90.4	106.0	43.6	43.6	56.1	74.8	49.9	34.3	37.4
87.5°	0.0	0.0	6.2	12.5	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: P1501502
CATALOG NUMBER: GSS-SB3B-827-U-T2LG

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	2200.7	2200.7	*2200.7*	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7	2200.7
2.5°	2210.0	2206.9	*2206.9*	2213.2	2228.7	2235.0	2244.3	2241.2	2250.6	2244.3
5°	2253.7	2256.8	*2266.1*	2269.3	2278.6	2291.1	2294.2	2291.1	2297.3	2297.3
7.5°	2341.0	2353.4	*2347.2*	2362.8	2350.3	2334.7	2309.8	2291.1	2275.5	2281.7
10°	2487.5	2481.2	*2478.1*	2450.1	2393.9	2312.9	2247.4	2175.7	2163.3	2150.8
12.5°	2649.5	2643.3	*2643.3*	2546.7	2387.7	2219.4	2069.8	1957.5	1920.1	1917.0
15°	2877.1	2836.6	*2799.2*	2596.6	2278.6	1991.8	1817.3	1730.0	1708.2	1708.2
17.5°	3160.8	3054.8	*2992.4*	2559.2	2100.9	1842.2	1739.4	1717.5	1711.3	1726.9
20°	3513.0	3244.9	*3154.5*	2475.0	2035.5	1860.9	1811.0	1814.2	1817.3	1839.1
22.5°	3899.5	3419.5	*3269.9*	2475.0	2100.9	1979.4	1954.4	1988.7	1998.1	2016.8
25°	4329.7	3575.3	*3372.7*	2605.9	2294.2	2203.8	2172.6	2206.9	2231.9	2263.0
27.5°	4812.8	3737.4	*3550.4*	2842.8	2543.6	2487.5	2453.2	2468.8	2503.0	2540.4
30°	5246.1	4008.6	*3821.6*	3204.4	2883.3	2814.8	2755.5	2780.5	2817.9	2842.8
32.5°	5629.5	4339.0	*4180.1*	3584.7	3273.0	3154.5	3089.1	3082.8	3157.6	3138.9
35°	5981.7	4728.7	*4575.9*	4018.0	3668.8	3522.3	3435.1	3547.3	3497.4	3516.1
37.5°	6259.2	5133.9	*5012.3*	4432.5	4080.3	3880.8	3827.8	3965.0	4042.9	4064.7
40°	6486.7	5486.1	*5358.3*	4844.0	4457.5	4311.0	4395.1	4622.7	4613.3	4604.0
42.5°	6661.3	5788.5	*5648.2*	5155.7	4819.1	4847.1	4912.6	5065.3	5102.7	5049.7
45°	6739.2	5978.6	*5866.4*	5402.0	5230.5	5392.6	5420.7	5486.1	5461.2	5426.9
47.5°	6829.6	6147.0	*6028.5*	5626.4	5676.3	5835.2	5779.1	5726.1	5635.7	5582.8
50°	6982.3	6346.4	*6246.7*	5953.7	6134.5	6081.5	5863.3	5744.8	5560.9	5498.6
52.5°	7272.2	6723.6	*6648.8*	6471.1	6349.6	6044.1	5779.1	5567.2	5361.4	5277.3
55°	7531.0	7234.8	*7191.2*	6954.3	6284.1	5847.7	5492.4	5165.1	4812.8	4741.1
57.5°	7680.6	8082.7	*8132.6*	7160.0	5984.9	5402.0	4878.3	4354.6	4021.1	3961.9
60°	*7234.8*	*8999.1*	*9024.0*	*7119.5*	*5445.6*	*4597.7*	*3799.8*	*3428.8*	*3070.4*	*2967.5*
62.5°	6620.8	8809.0	*8787.1*	6876.4	4335.9	3354.0	2886.4	2711.9	2434.5	2350.3
65°	5691.9	7337.7	*7362.6*	5941.2	2883.3	2425.1	2425.1	2203.8	1895.2	1836.0
67.5°	4638.3	5657.6	*5601.5*	3852.8	1770.5	1942.0	2035.5	1717.5	1284.3	1212.6
70°	3014.3	4320.3	*4242.4*	2222.5	1112.8	1617.8	1602.2	1290.5	919.5	869.7
72.5°	1296.7	2496.8	*2655.8*	1134.6	838.5	1303.0	1278.0	904.0	614.1	592.3
75°	782.4	1256.2	*1368.4*	723.2	611.0	981.9	885.3	573.5	417.7	402.1
77.5°	495.6	688.9	*682.6*	542.4	458.2	663.9	595.4	395.9	283.7	271.2
80°	286.8	339.8	*352.2*	339.8	308.6	473.8	380.3	286.8	221.3	205.7
82.5°	183.9	212.0	*215.1*	165.2	171.4	305.5	205.7	168.3	127.8	115.3
85°	81.0	90.4	*87.3*	56.1	56.1	124.7	71.7	68.6	49.9	49.9
87.5°	3.1	6.2	*3.1*	3.1	3.1	12.5	6.2	9.4	9.4	9.4
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

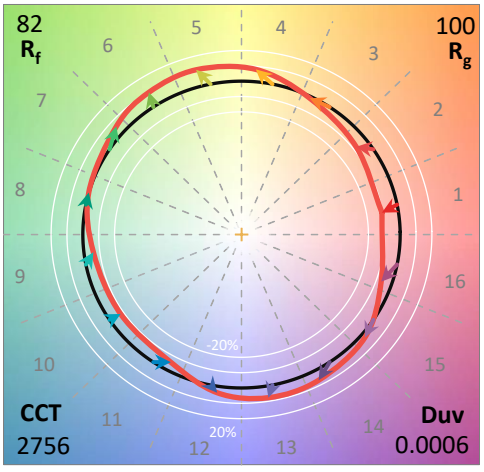
Test Information

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

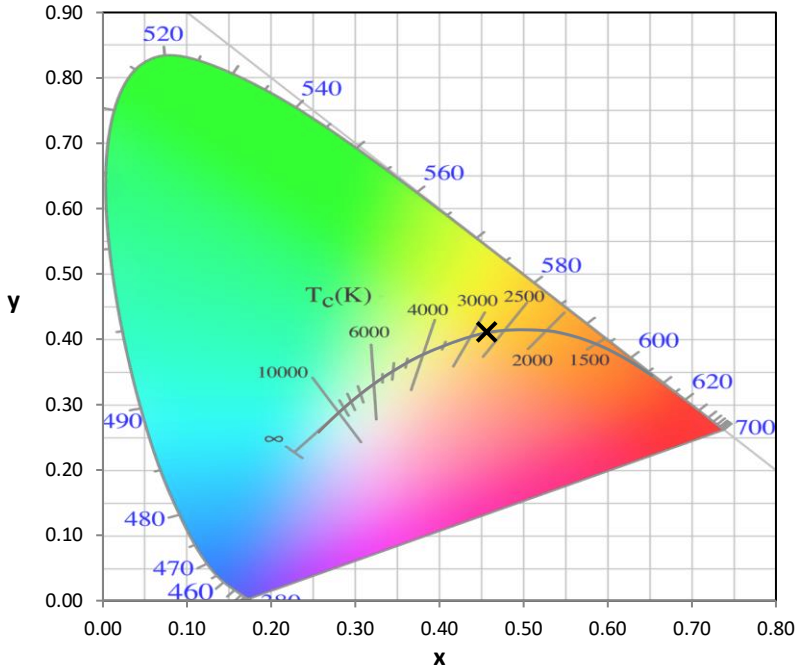
Stabilization Time:	29M
Operation Time:	1H 29M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-8

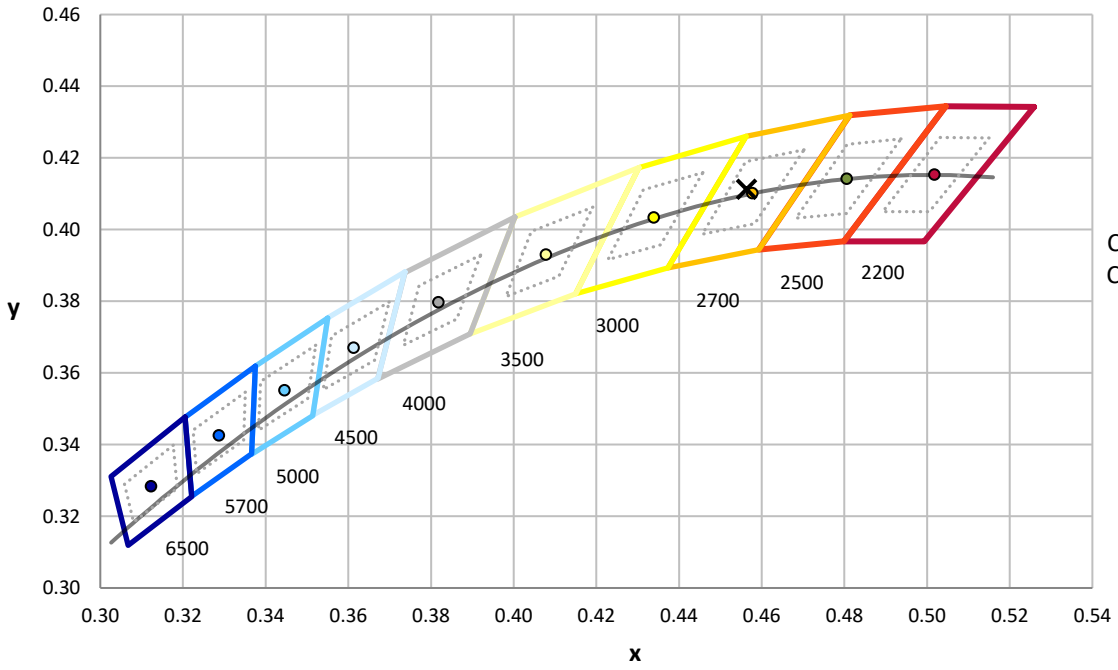
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

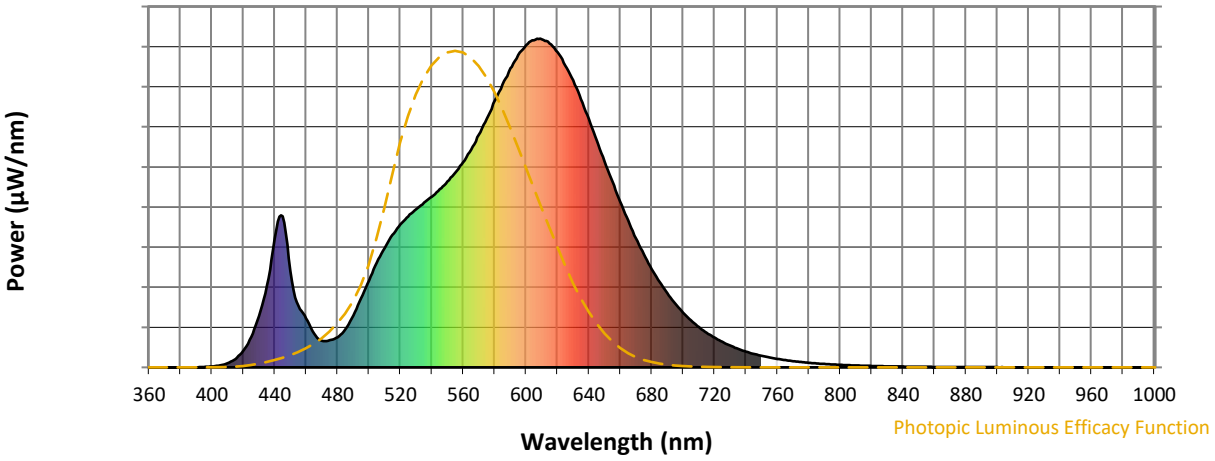


CCT = 2756K
CIE x = 0.4563
CIE y = 0.4112
Duv = 0.0006

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-8

Photopic Flux vs. Wavelength

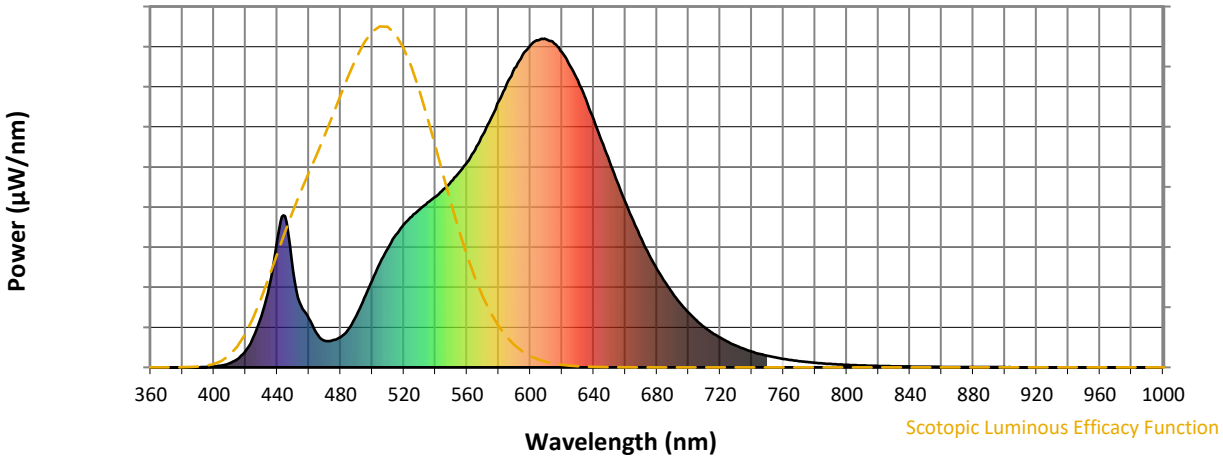


Photopic Lumens: NR

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

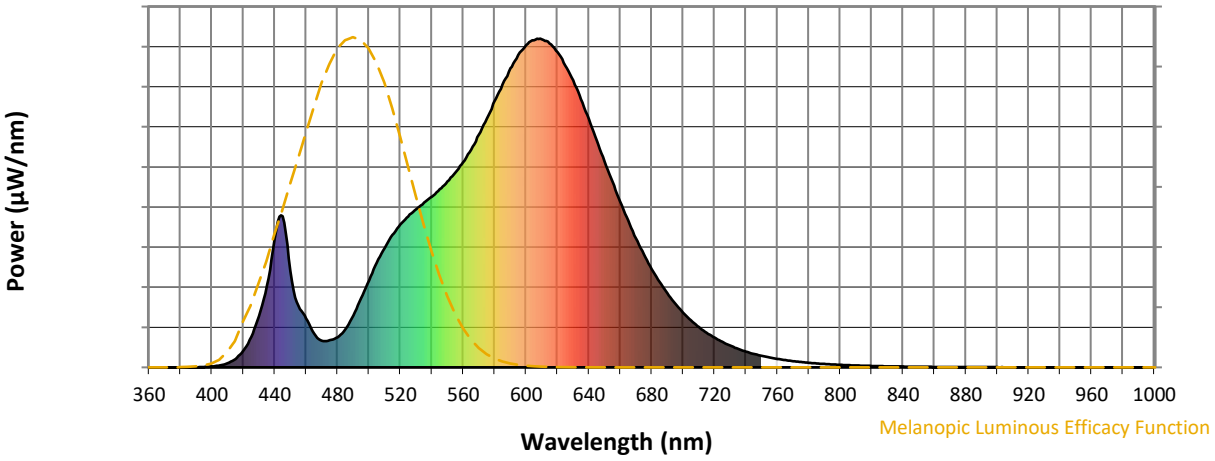


Scotopic Lumens: NR **S/P: 1.2**

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			

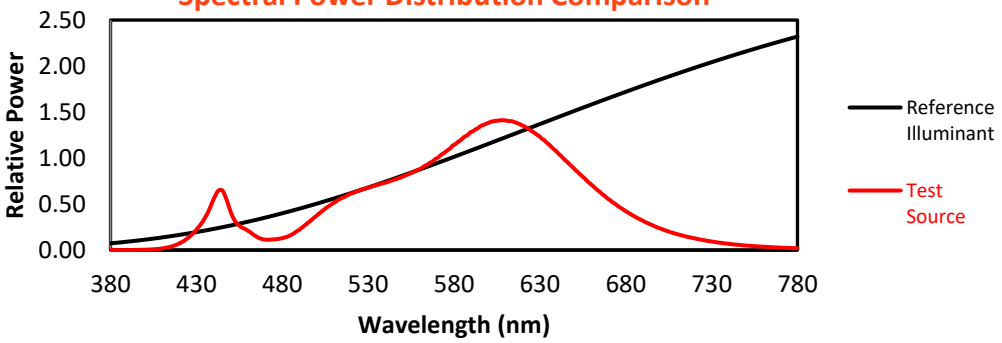
REPORT NUMBER: SP1-2407-184-8

TM-30-18

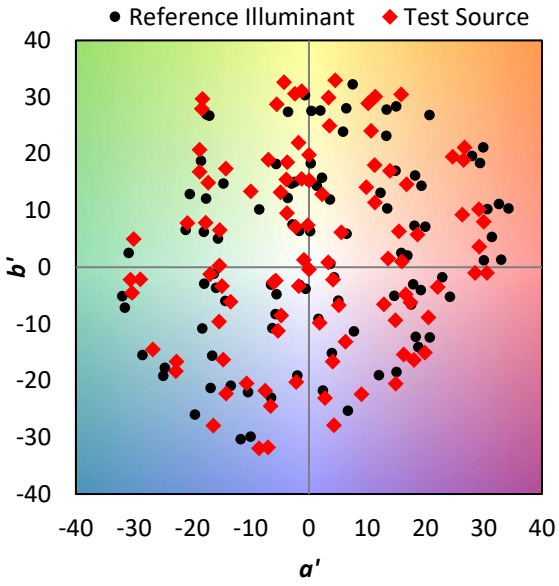
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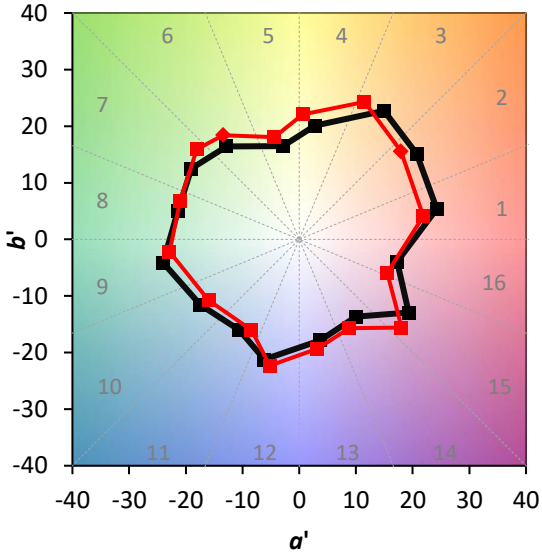
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R_g = 99.9
CIE R_a = 82.9
R_9 = 10.8

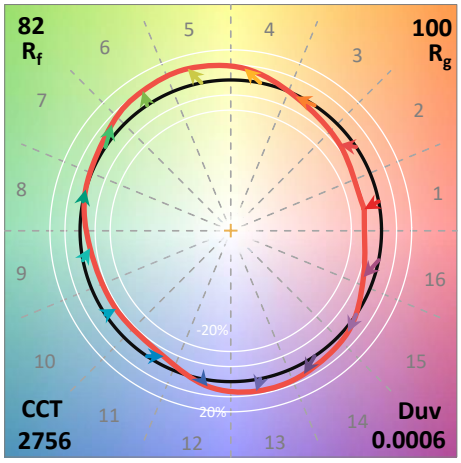
Spectral Power Distribution Comparison

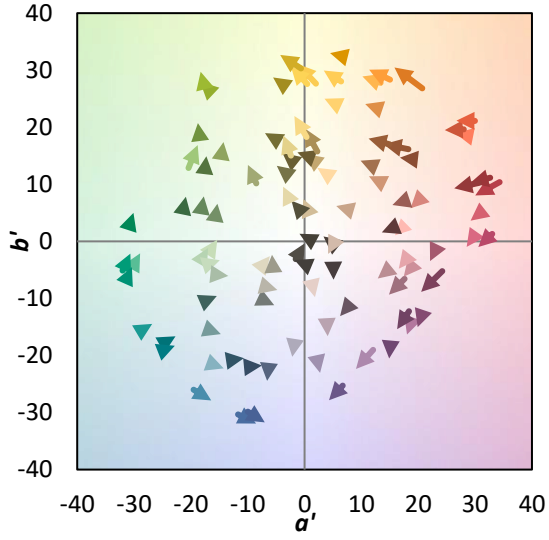


Color Vector Graphics







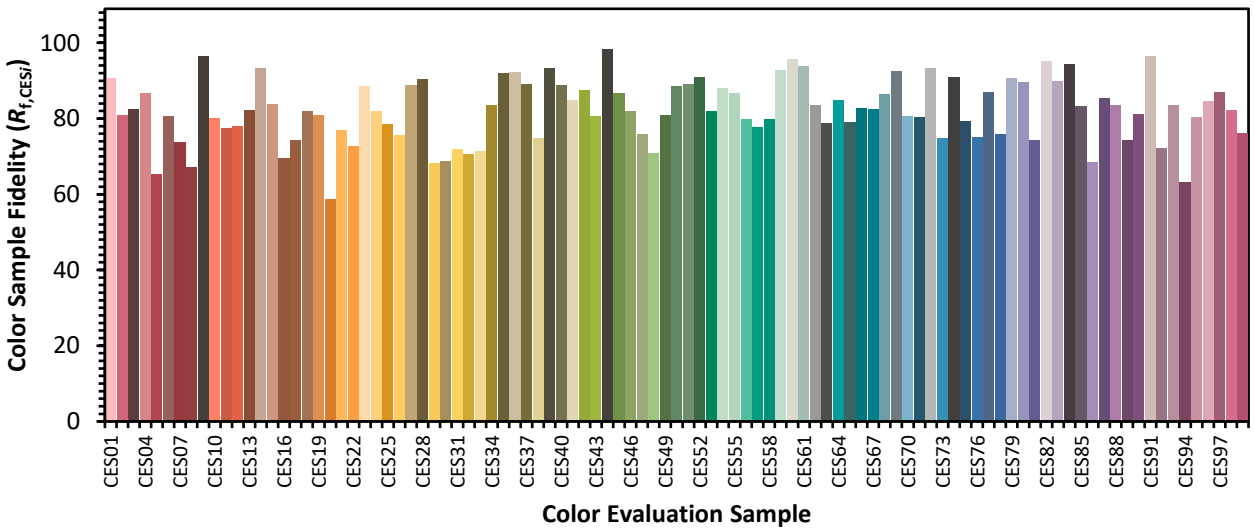


REPORT NUMBER: SP1-2407-184-8

TM-30-18

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

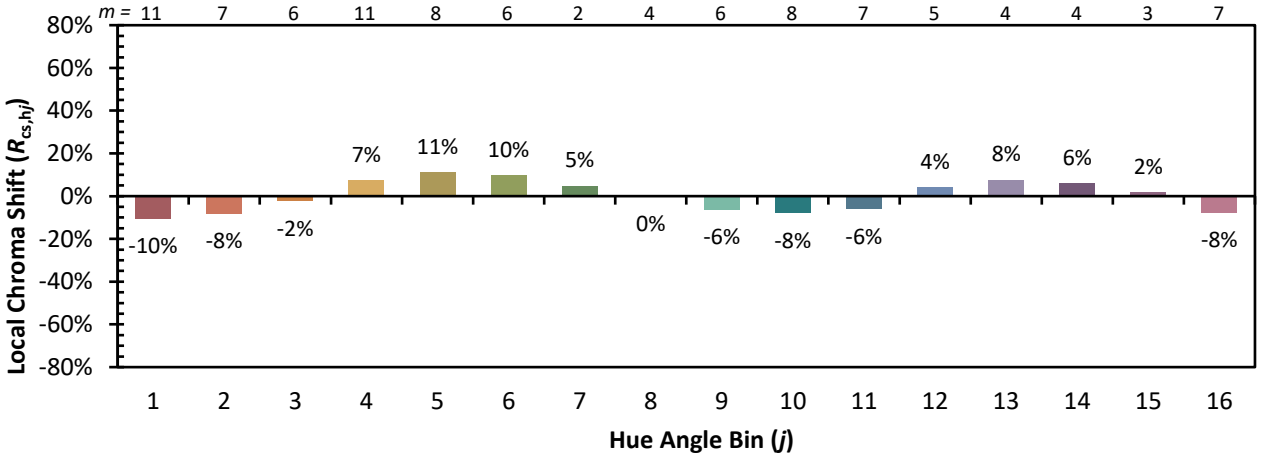
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CES02 = 63	CES27 = 89	CES52 = 91	CES77 = 87
CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 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
CES23 = 92	CES48 = 71	CES73 = 75	CES98 = 82
CES24 = 91	CES49 = 81	CES74 = 91	CES99 = 76
CES25 = 72	CES50 = 88	CES75 = 79	

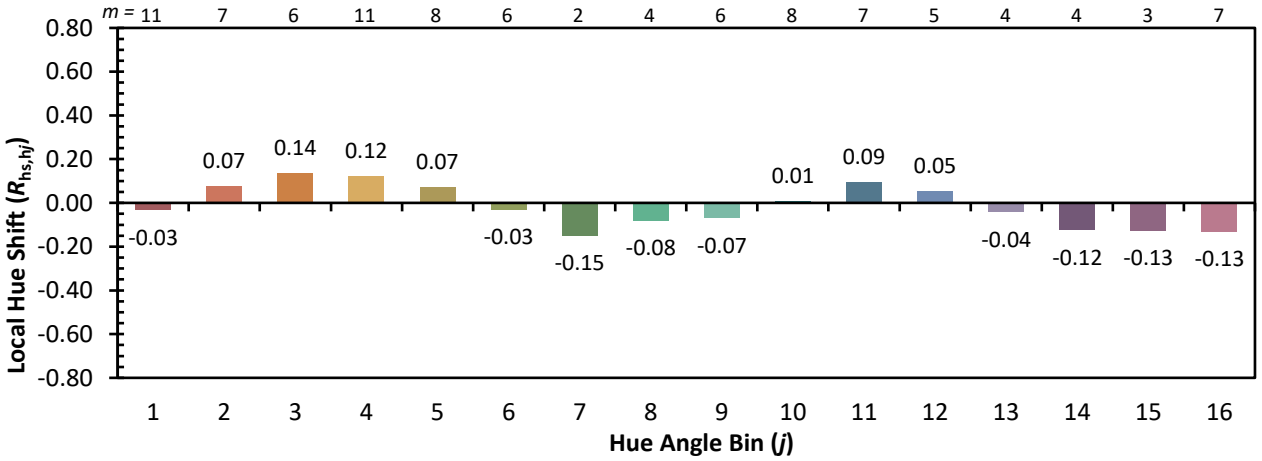


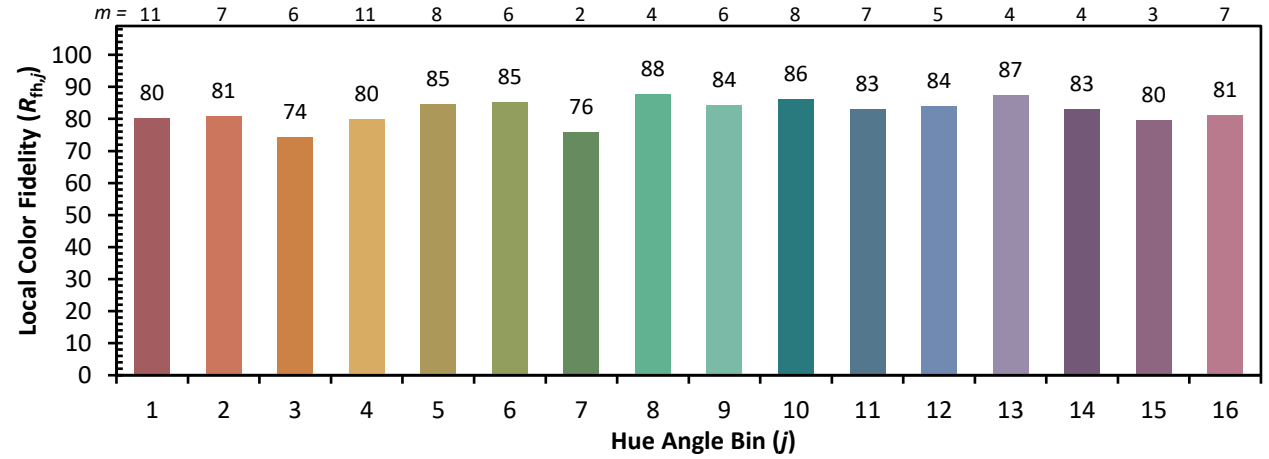
REPORT NUMBER: SP1-2407-184-8

TM-30-18

Color Rendition by Hue-Angle Bin



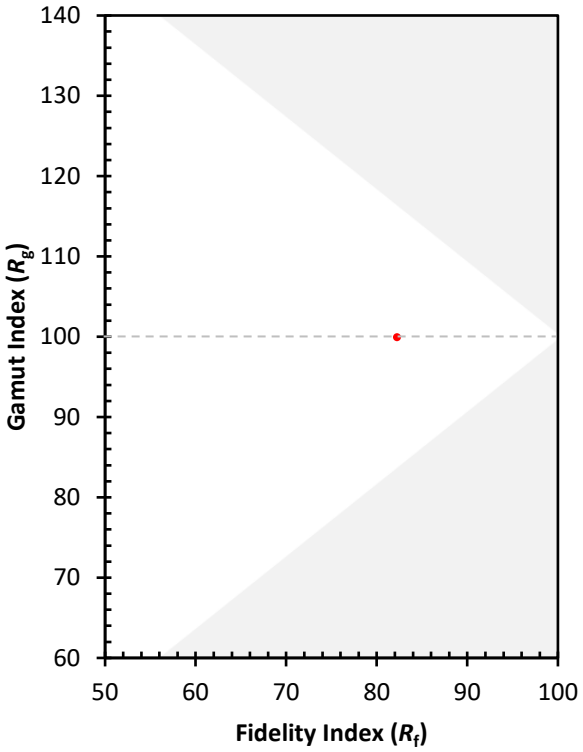


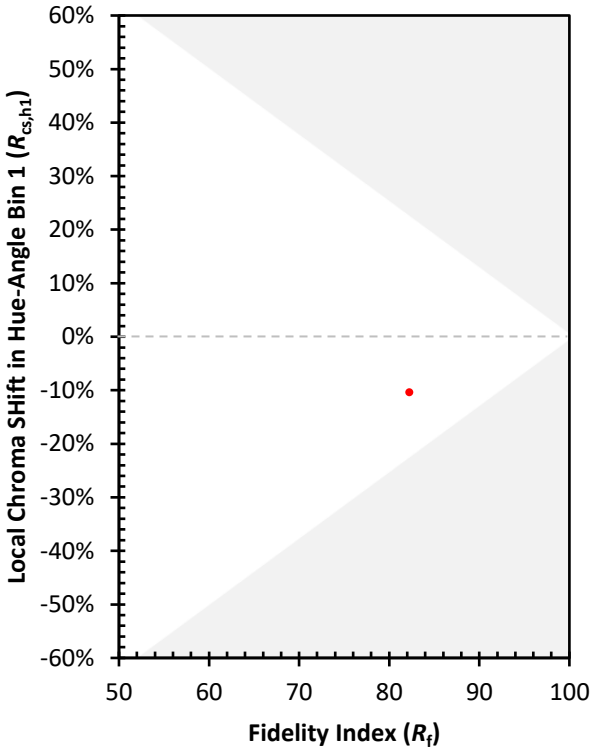


REPORT NUMBER: SP1-2407-184-8

TM-30-18

Measure Comparisons





(END OF REPORT)