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: P1202740

Luminaire Tested: GWC-SB2A-830-U-SLL-HSS

Issue Date: 10/30/2025

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1202740
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)
Test Lab:	INNOVATION CENTER
Issue Date:	3/14/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWC-SB2A-830-U-SLL-HSS
Description:	GALLEON WALL LUMINAIRE
	(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT ELIMINATOF
	LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6151 lumens
Efficiency:	N/A
Efficacy:	107.3 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	57.3
Input Voltage (V):	120.0
Input Current (Ain):	0.484
Voltage Rise (V):	NR
Power Factor:	0.994
Total Harmonic Distortion (THDi):	9.038
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

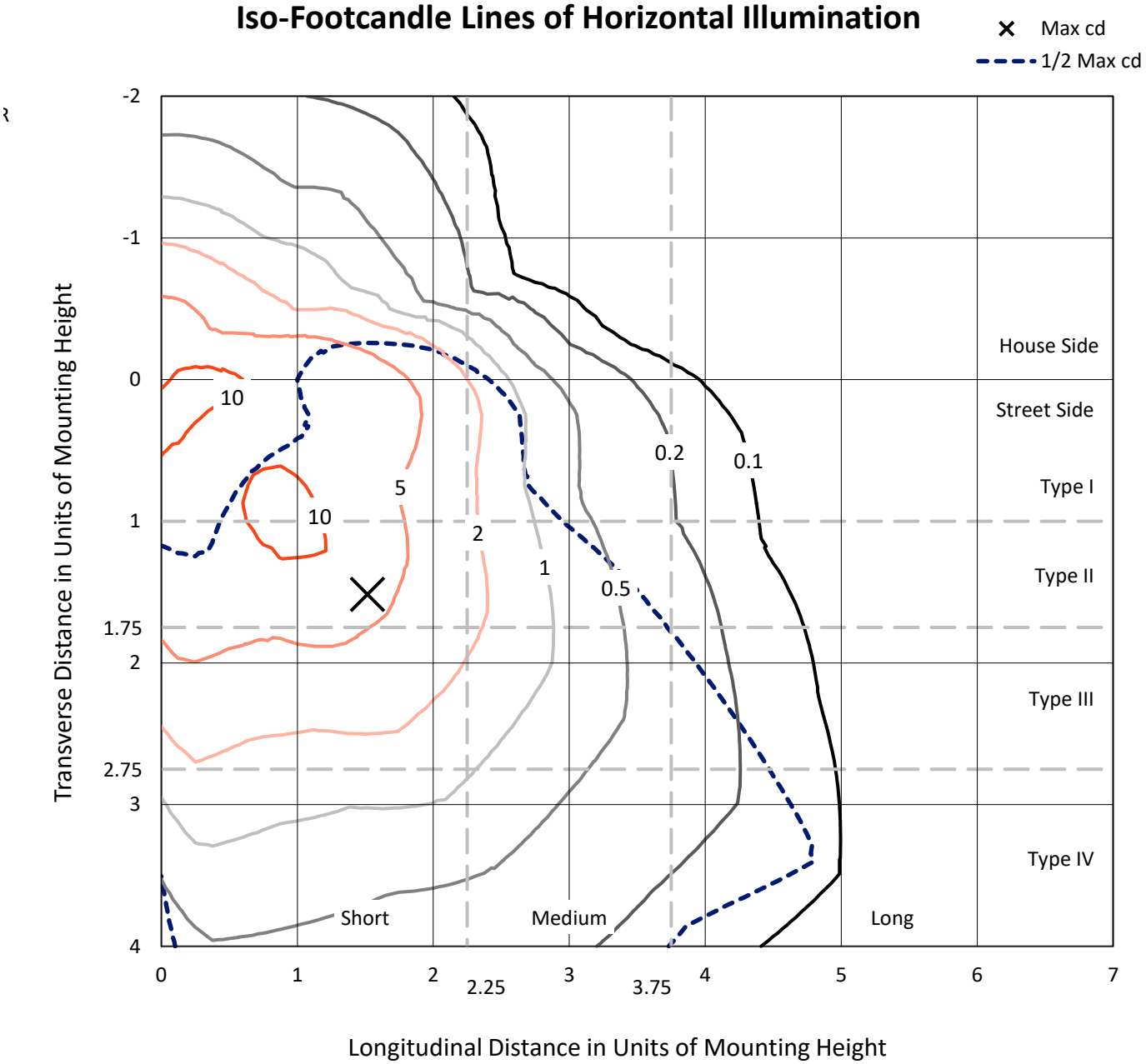


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Iso-Footcandle Lines of Horizontal Illumination



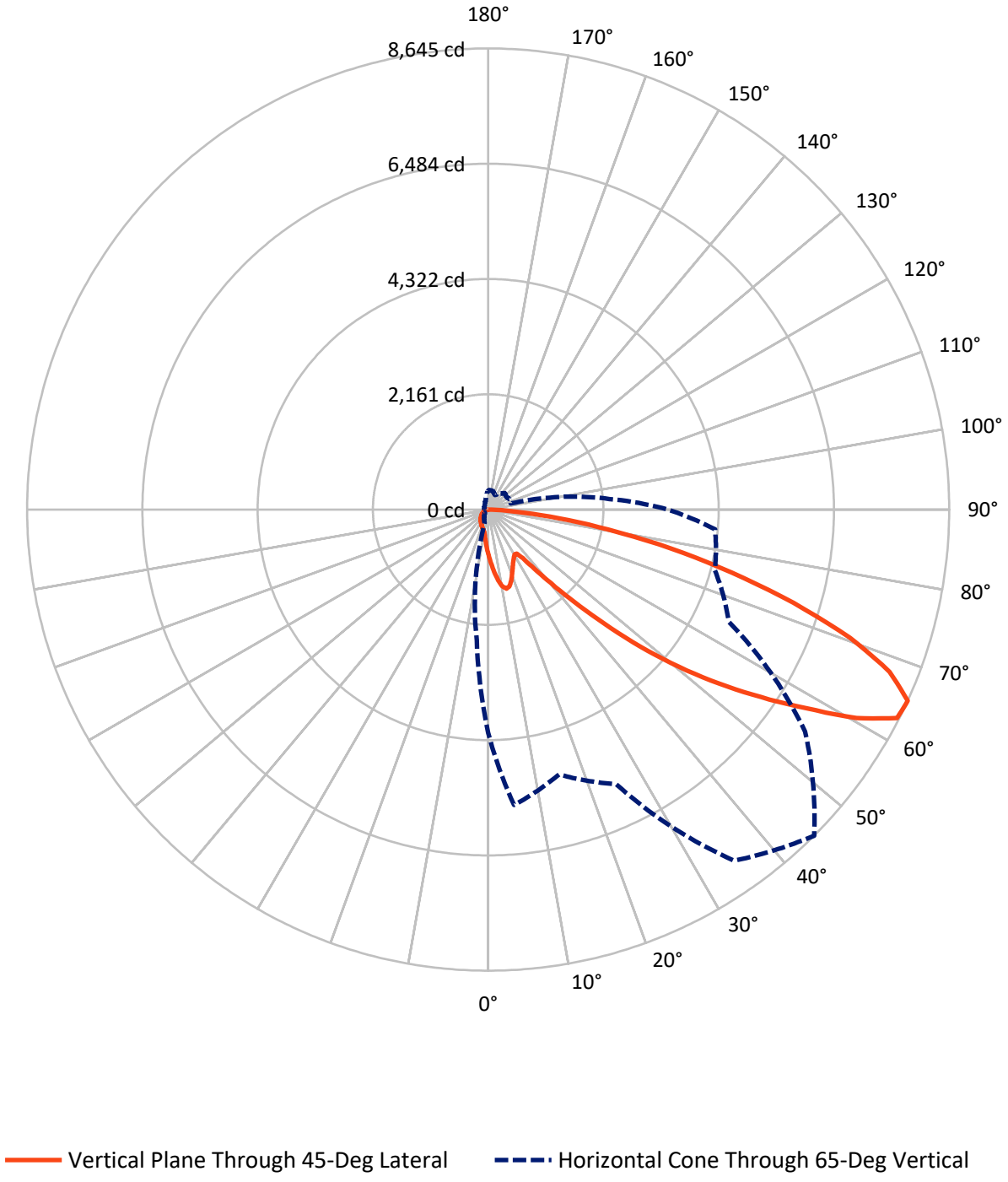
Based on 10 foot mounting height. Maximum calculated value = 11.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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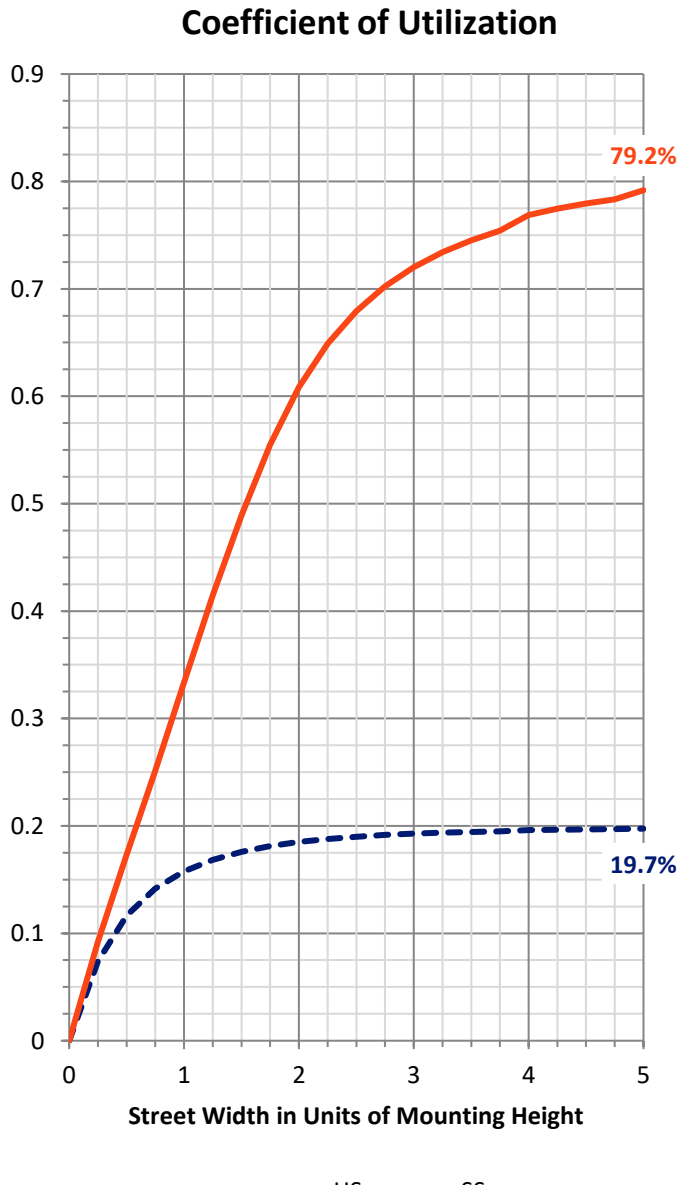
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1222.6	0.0	1222.6
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	4928.4	0.0	4928.4
	% Fixture	80.1	0.0	80.1
Total	Lumens	6151.0	0.0	6151.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.9	1.4
10°-20°	251.4	4.1
20°-30°	370.3	6.0
30°-40°	475.8	7.7
40°-50°	769.4	12.5
50°-60°	1349.3	21.9
60°-70°	1688.3	27.4
70°-80°	986.6	16.0
80°-90°	176.0	2.9
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°	6151.0	100.0
0°-180°	6151.0	100.0



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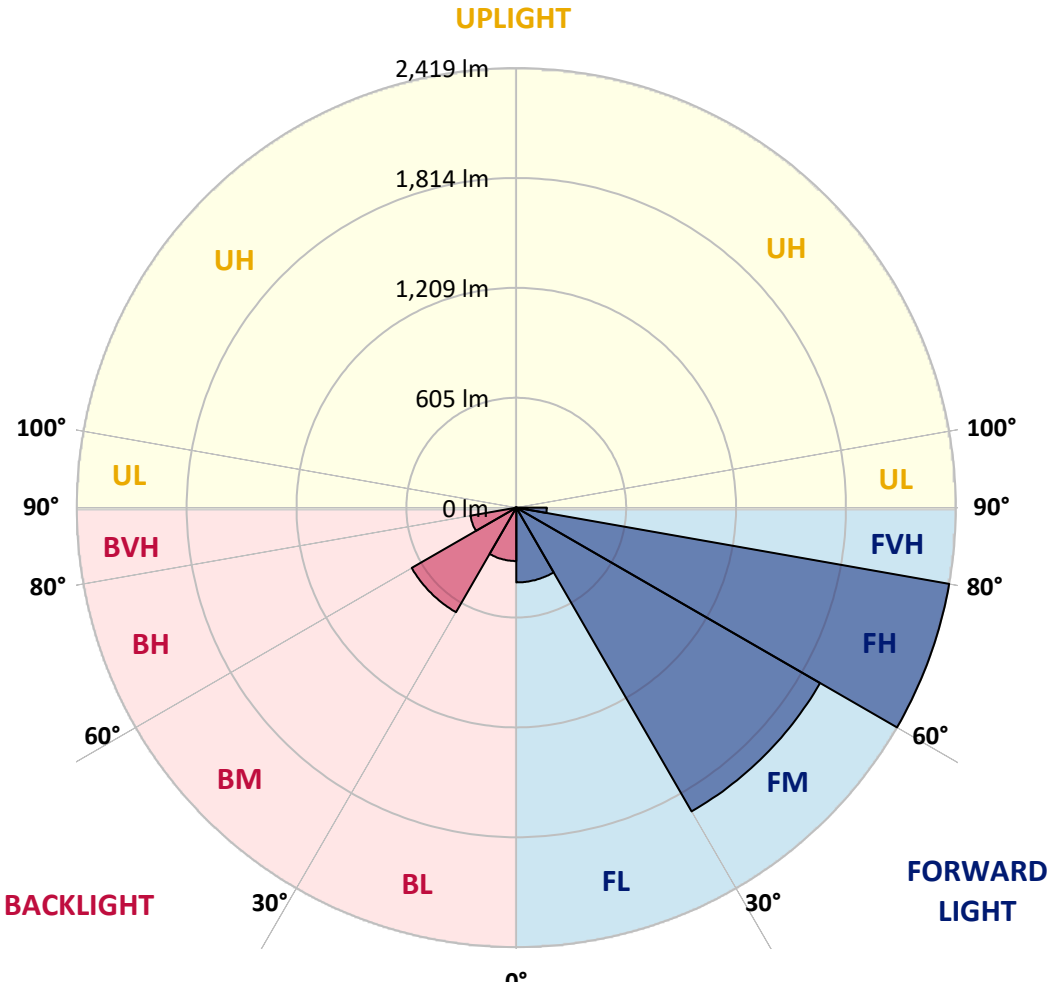
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	411.6	6.7			
FM	(30°-60°)	1930.3	31.4			
FH	(60°-80°)	2418.8	39.3			G2/5000
FVH	(80°-90°)	167.8	2.7			G2/225
BL	(0°-30°)	294.0	4.8	B1/500		
BM	(30°-60°)	664.2	10.8	B1/1000		
BH	(60°-80°)	256.2	4.2	B1/500		G1/500
BVH	(80°-90°)	8.2	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	851.7	851.7	851.7	851.7	851.7	*851.7*	851.7	851.7	851.7	851.7	851.7
2.5°	954.3	961.5	977.6	986.0	999.2	*1000.0*	1000.0	988.6	988.2	964.9	962.3
5°	1066.6	1083.5	1121.6	1161.0	1169.5	*1171.6*	1167.4	1144.5	1127.6	1082.2	1072.5
7.5°	1178.0	1210.6	1268.7	1321.2	1338.2	*1338.2*	1328.0	1290.7	1256.0	1190.3	1165.7
10°	1270.4	1311.5	1390.3	1449.2	1468.7	*1464.4*	1443.7	1396.6	1348.8	1269.1	1236.9
12.5°	1331.4	1377.6	1464.0	1511.5	1531.4	*1520.4*	1496.6	1450.9	1400.5	1316.6	1280.1
15°	1361.9	1410.2	1485.2	1510.2	1504.7	*1493.3*	1490.3	1468.3	1430.1	1351.7	1311.9
17.5°	1375.0	1420.0	1472.1	1456.4	1409.8	*1400.9*	1430.5	1458.5	1449.2	1382.2	1344.9
20°	1387.3	1425.0	1440.7	1371.2	1289.9	*1281.8*	1338.6	1418.3	1458.9	1410.6	1376.3
22.5°	1404.3	1427.6	1395.4	1281.4	1193.7	*1175.0*	1237.7	1357.7	1461.9	1446.6	1412.3
25°	1427.6	1433.9	1345.4	1196.2	1108.1	*1089.4*	1147.9	1290.3	1456.8	1485.6	1456.4
27.5°	1455.5	1442.4	1297.5	1125.0	1039.9	*1022.5*	1081.0	1225.5	1442.4	1524.6	1503.9
30°	1492.0	1453.4	1250.0	1069.9	991.1	*978.4*	1034.8	1169.5	1424.6	1574.2	1562.8
32.5°	1528.9	1458.1	1206.0	1037.7	980.1	*984.8*	1031.0	1139.4	1405.1	1621.7	1627.2
35°	1568.7	1472.9	1184.4	1069.5	1072.1	*1112.7*	1131.8	1167.4	1402.2	1686.1	1707.7
37.5°	1622.9	1506.0	1210.2	1227.6	1315.7	*1400.0*	1384.4	1304.3	1436.5	1782.2	1822.5
40°	1700.9	1564.0	1322.9	1496.6	1677.6	*1814.5*	1754.7	1553.0	1541.6	1920.8	1981.0
42.5°	1814.5	1656.4	1522.9	1825.5	2132.3	*2357.7*	2197.5	1873.8	1725.5	2118.7	2195.4
45°	1982.3	1806.0	1764.9	2172.5	2692.9	*3048.0*	2714.9	2215.7	1983.1	2418.3	2478.5
47.5°	2214.9	2025.9	1991.6	2538.2	3374.2	*3833.6*	3288.6	2532.7	2276.3	2826.8	2840.8
50°	2523.8	2322.1	2206.4	2938.2	4121.3	*4634.4*	3862.0	2838.6	2612.4	3325.9	3309.8
52.5°	2931.4	2735.2	2456.8	3319.2	4889.5	*5418.4*	4437.8	3107.3	3029.3	3905.2	3872.1
55°	3487.4	3356.9	2799.2	3682.7	5657.3	*6206.9*	4991.2	3360.7	3580.2	4593.3	4393.3
57.5°	4177.2	4270.4	3292.9	4104.3	6347.6	*7019.7*	5547.2	3714.9	4295.4	5362.8	4695.9
60°	4622.2	5485.3	4238.2	4727.7	7132.0	*7938.8*	6309.1	4388.7	5047.2	5638.7	4638.3
62.5°	4514.5	5871.8	5370.5	5523.4	7853.2	*8607.0*	7055.7	5065.4	5188.7	5232.3	4194.2
65°	*4184.4*	*5559.9*	*5139.5*	*5678.1*	*8035.8*	*8644.7*	*7255.3*	*4978.1*	*4401.4*	*4271.7*	*3371.3*
67.5°	3730.2	5190.0	4590.8	5267.9	7705.7	*8117.6*	6883.7	4403.5	3401.4	3205.6	2445.8
70°	3239.9	4780.6	4230.6	4807.7	7076.5	*7198.9*	6251.9	3873.0	2501.8	2164.9	1569.5
72.5°	2774.6	4354.3	3984.0	4336.1	6237.0	*5983.6*	5429.4	3403.9	1821.7	1561.5	1115.7
75°	2298.8	3725.5	3632.7	3775.9	5133.2	*4713.3*	4511.1	2818.3	1429.7	1129.7	769.9
77.5°	1773.8	2911.1	3124.7	3023.8	3613.2	*3500.9*	3496.7	2117.9	1044.5	753.8	482.6
80°	1214.0	2028.9	2441.2	2133.1	2345.0	*2287.8*	2633.5	1420.8	757.6	453.8	268.7
82.5°	713.6	1235.2	1699.2	1032.7	1296.6	*1331.0*	1568.3	691.1	445.8	104.7	58.5
85°	289.4	487.7	664.4	404.2	625.4	*527.6*	595.4	194.1	124.2	2.5	0.0
87.5°	72.9	155.9	109.3	45.3	72.5	*66.5*	52.5	23.7	5.1	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	851.7	851.7	851.7	851.7	851.7	851.7	851.7	851.7	851.7	851.7	851.7
2.5°	945.8	936.0	911.9	887.7	868.2	842.0	824.6	803.8	783.9	766.1	762.7
5°	1045.8	1013.6	969.5	929.3	888.2	848.3	808.9	767.4	729.3	706.0	691.1
7.5°	1127.1	1070.4	1011.9	960.6	911.0	864.4	812.3	761.9	702.1	670.4	641.5
10°	1187.7	1113.2	1036.5	977.6	927.6	882.2	838.2	787.3	715.3	675.4	632.2
12.5°	1227.6	1139.0	1049.2	981.8	925.9	890.7	871.2	851.3	779.7	733.1	670.4
15°	1255.1	1157.2	1058.1	972.1	903.4	877.6	897.1	919.9	874.2	820.4	738.6
17.5°	1285.2	1181.0	1061.9	945.8	859.8	848.8	899.2	952.1	950.0	896.6	816.5
20°	1317.0	1201.7	1059.3	903.4	806.8	816.5	881.0	942.4	968.2	939.4	868.2
22.5°	1349.6	1221.6	1049.6	848.3	757.2	787.7	852.1	906.0	936.5	927.6	873.3
25°	1390.7	1249.6	1035.2	789.0	716.1	758.5	818.7	862.3	883.5	883.1	845.8
27.5°	1439.9	1286.9	1027.6	741.1	686.9	725.4	778.8	817.8	832.6	832.6	803.0
30°	1497.1	1331.0	1019.1	709.8	669.9	691.1	732.6	770.8	785.6	785.6	760.6
32.5°	1560.6	1373.3	998.8	690.7	657.2	657.6	683.9	718.7	736.5	739.0	721.2
35°	1636.9	1418.7	954.3	675.4	642.4	625.0	637.7	666.5	687.7	693.2	682.2
37.5°	1736.9	1474.2	890.7	653.0	619.5	590.7	593.7	615.7	639.0	647.5	640.3
40°	1871.2	1539.4	824.6	620.8	587.3	553.0	551.7	567.8	590.7	600.0	596.2
42.5°	2048.8	1617.8	761.5	589.8	548.3	513.1	511.0	523.7	543.7	553.4	551.7
45°	2275.9	1714.0	707.2	565.7	510.2	475.4	474.6	485.2	502.6	512.7	510.6
47.5°	2591.6	1810.2	670.4	553.0	480.1	444.5	446.2	455.5	471.2	478.4	475.4
50°	3003.0	1839.5	651.7	553.0	464.0	417.0	425.4	433.1	444.9	449.2	445.4
52.5°	3398.0	1742.8	634.8	556.4	466.1	393.7	411.9	417.4	427.6	429.2	423.7
55°	3591.6	1498.3	611.5	557.2	479.2	373.7	400.9	411.0	414.8	414.4	405.1
57.5°	3525.1	1211.5	572.0	553.8	488.1	361.0	387.3	406.8	409.3	405.5	388.1
60°	3291.6	892.0	542.0	528.8	484.8	357.2	366.5	397.5	401.3	396.2	367.8
62.5°	2900.1	619.1	518.7	473.7	469.9	355.9	333.9	377.1	386.5	379.2	337.7
65°	*2283.1*	*437.3*	*446.6*	*415.3*	*437.7*	*349.2*	*300.0*	*352.6*	*365.3*	*354.2*	*295.8*
67.5°	1545.0	315.7	361.9	376.3	385.6	333.9	275.4	324.6	341.5	327.1	247.0
70°	834.3	221.6	239.0	317.0	327.6	307.6	253.4	296.2	315.7	300.0	201.3
72.5°	492.8	159.3	167.4	254.7	272.9	270.8	228.8	263.1	286.9	268.2	163.6
75°	271.6	107.6	119.5	184.8	221.6	208.9	196.6	222.9	247.0	228.8	126.3
77.5°	121.6	64.4	83.1	121.2	174.2	143.2	152.1	173.7	196.2	177.1	84.3
80°	47.0	36.0	55.1	66.1	126.7	79.2	97.9	128.0	144.1	128.8	51.3
82.5°	5.9	16.1	23.7	25.8	73.7	42.0	56.8	80.5	79.2	68.6	25.8
85°	0.0	3.0	3.4	1.7	31.8	15.3	18.6	26.3	24.6	18.6	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	851.7	851.7	851.7	851.7	851.7	851.7	851.7	851.7	851.7	851.7	851.7
2.5°	742.0	726.7	719.1	712.7	718.7	722.1	722.1	736.5	744.9	748.3	772.1
5°	653.8	625.4	606.4	594.9	598.7	603.0	607.6	625.9	638.2	646.2	683.1
7.5°	584.3	541.1	514.4	500.4	502.6	505.5	509.3	527.1	539.4	550.0	591.1
10°	550.0	489.0	453.8	436.9	433.9	432.2	430.9	441.5	450.9	459.3	500.0
12.5°	551.7	466.5	423.7	403.0	394.1	383.9	375.9	377.6	383.5	394.1	419.9
15°	573.3	459.3	408.1	382.2	367.4	355.5	345.8	343.7	345.8	347.5	363.6
17.5°	602.6	458.5	394.5	362.3	347.0	337.3	328.4	325.4	325.9	328.0	332.2
20°	625.9	455.9	379.2	343.2	329.7	321.2	312.3	309.3	310.2	310.6	315.3
22.5°	638.2	452.1	362.3	324.2	312.7	304.2	296.2	295.8	295.8	298.3	301.7
25°	638.2	444.1	347.0	305.9	295.8	288.1	278.4	280.1	280.9	284.3	289.4
27.5°	622.9	428.8	334.8	290.3	279.7	272.0	263.1	265.3	266.5	270.3	276.7
30°	603.4	410.6	320.8	275.4	263.1	257.6	250.0	250.9	252.5	256.8	264.0
32.5°	582.6	389.0	309.3	260.6	248.3	244.1	235.6	236.9	238.6	243.2	251.3
35°	559.8	363.6	295.8	247.0	234.8	231.4	221.6	222.5	225.0	230.1	238.1
37.5°	535.6	342.8	282.2	233.9	221.2	217.8	207.6	208.5	211.4	217.4	225.0
40°	511.9	322.5	267.8	219.9	207.2	204.2	193.2	194.1	197.5	203.8	211.9
42.5°	486.0	306.8	249.2	205.5	192.0	189.0	178.8	180.1	183.9	190.3	198.3
45°	455.1	296.6	228.4	192.0	176.7	173.7	164.4	167.0	171.2	177.5	186.0
47.5°	423.3	292.4	211.0	177.5	161.0	158.5	150.9	155.1	159.7	164.8	174.2
50°	392.8	286.9	193.2	164.0	147.5	144.9	139.8	145.3	150.0	154.7	163.6
52.5°	358.1	275.0	177.1	152.1	136.0	135.2	132.6	137.7	142.0	146.2	153.8
55°	322.0	255.9	163.1	141.5	126.3	127.1	125.9	130.1	133.5	137.3	144.1
57.5°	290.7	231.8	152.1	130.1	117.8	120.3	118.6	120.8	122.9	127.5	133.1
60°	258.9	203.0	139.8	116.5	109.3	112.3	107.6	107.2	108.1	109.3	119.5
62.5°	216.1	172.9	124.6	104.7	100.0	101.3	92.4	85.6	85.6	86.9	102.1
65°	*173.7*	*144.9*	*107.6*	*91.1*	*87.3*	*86.4*	*73.7*	*64.4*	*63.6*	*67.4*	*80.5*
67.5°	142.8	120.3	90.7	75.8	73.3	74.2	64.8	55.5	54.7	58.9	68.6
70°	118.2	97.0	72.5	58.5	61.0	64.8	55.5	46.6	45.3	49.2	58.5
72.5°	94.1	75.8	55.5	43.2	50.4	55.1	45.3	36.9	36.0	39.4	48.3
75°	69.1	54.2	37.7	31.4	39.0	43.2	33.1	26.3	25.0	28.0	36.9
77.5°	42.8	30.5	23.7	18.6	26.7	28.8	17.4	15.3	14.8	16.9	23.3
80°	19.9	13.1	11.4	6.4	9.7	11.4	7.2	8.1	8.5	10.2	14.4
82.5°	5.5	2.1	0.4	0.0	0.0	3.4	1.7	3.4	4.2	6.4	9.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.1	3.8	6.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.4
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: P1202740
CATALOG NUMBER: GWC-SB2A-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	851.7	851.7	851.7	851.7	851.7	851.7	851.7	851.7
2.5°	789.9	806.8	833.9	861.9	889.4	917.4	944.5	954.3
5°	716.5	755.5	809.3	867.0	926.3	986.5	1041.6	1066.6
7.5°	634.8	690.7	771.6	861.9	956.4	1050.9	1137.7	1178.0
10°	547.5	618.2	710.6	832.6	968.2	1098.8	1218.3	1270.4
12.5°	464.4	538.6	640.7	786.9	958.9	1126.3	1269.9	1331.4
15°	394.9	460.6	570.8	732.6	928.8	1128.0	1294.5	1361.9
17.5°	342.8	385.6	499.6	672.5	889.4	1112.3	1303.0	1375.0
20°	317.0	328.8	407.2	595.4	852.6	1097.5	1311.5	1387.3
22.5°	301.7	304.7	333.1	495.8	808.5	1092.8	1326.3	1404.3
25°	289.4	290.3	297.9	392.8	741.1	1089.9	1349.2	1427.6
27.5°	277.1	277.1	281.4	316.5	649.6	1077.1	1378.8	1455.5
30°	264.8	264.8	267.8	280.1	542.4	1052.1	1414.4	1492.0
32.5°	252.1	252.1	254.7	263.6	433.1	1020.8	1447.1	1528.9
35°	239.4	238.6	242.0	251.3	344.5	981.0	1479.7	1568.7
37.5°	225.9	225.4	228.8	239.4	297.5	934.8	1504.3	1622.9
40°	211.4	211.4	215.3	226.7	283.9	876.7	1543.3	1700.9
42.5°	198.3	197.5	201.7	215.7	273.7	821.2	1613.2	1814.5
45°	185.6	183.9	187.7	205.1	255.9	801.7	1743.7	1982.3
47.5°	173.7	169.5	172.9	192.4	239.8	874.6	1957.3	2214.9
50°	164.0	155.9	158.9	179.7	227.5	1032.7	2234.4	2523.8
52.5°	153.8	143.2	144.9	164.0	216.5	1183.1	2534.8	2931.4
55°	143.2	131.4	132.2	148.3	200.9	1205.5	2828.0	3487.4
57.5°	131.4	120.3	120.3	133.9	189.4	1044.9	3053.5	4177.2
60°	118.2	111.0	108.9	122.5	199.6	737.3	3079.7	4622.2
62.5°	103.8	100.0	97.0	111.4	207.2	436.9	2868.3	4514.5
65°	*87.3*	*86.4*	*84.3*	*122.5*	*174.6*	*258.1*	*2462.4*	*4184.4*
67.5°	73.3	72.0	72.0	128.4	132.6	162.3	1923.8	3730.2
70°	63.1	58.5	58.5	97.0	80.5	112.3	1343.3	3239.9
72.5°	53.0	47.9	44.5	77.5	60.2	82.2	839.4	2774.6
75°	42.4	38.6	34.3	51.3	44.9	62.3	487.7	2298.8
77.5°	30.5	28.8	24.2	37.7	32.6	44.9	290.3	1773.8
80°	15.7	16.1	15.3	21.6	22.0	30.5	165.3	1214.0
82.5°	9.3	7.2	8.1	10.6	12.7	17.4	62.3	713.6
85°	5.9	3.8	3.8	5.1	6.4	6.8	19.1	289.4
87.5°	3.0	1.3	1.7	2.5	2.1	1.7	0.8	72.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0


HS
SS

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: SP1-2408-195-9

Test Date: 08/07/2024

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

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

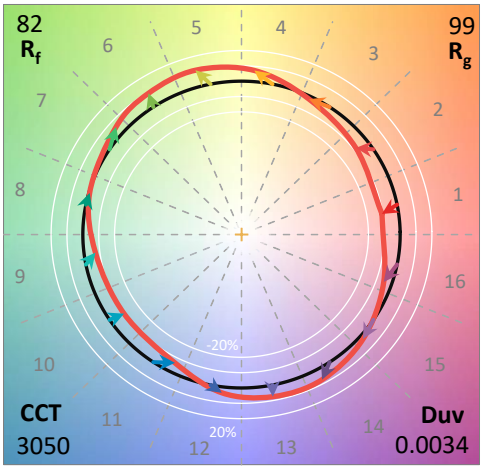
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2408-195-9
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	08/07/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	MCGRAW EDISON
Catalog Number:	**GALN-SB1A-830-U-5WQ**
Description:	GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K):	3050
CIE u':	0.2476
CIE v':	0.5251
Duv:	0.0034
CIE x:	0.4383
CIE y:	0.4131
CIE z:	0.1487
Peak Wavelength (nm):	603
Dominant Wavelength (nm):	581
Purity:	55.55201
Rf:	81.5
Rg:	99.2

CRI (Ra):	81.0
R1:	79.6
R2:	85.6
R3:	92.0
R4:	82.6
R5:	78.9
R6:	81.7
R7:	85.2
R8:	62.0
R9:	7.1
R10:	67.0
R11:	82.7
R12:	63.2
R13:	80.3
R14:	95.0
R15:	71.7



Test Conditions

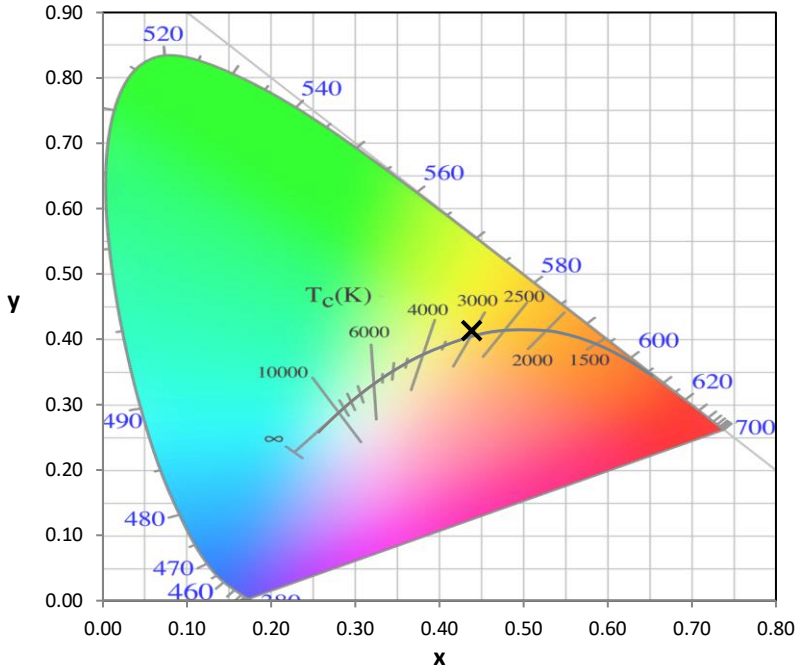
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

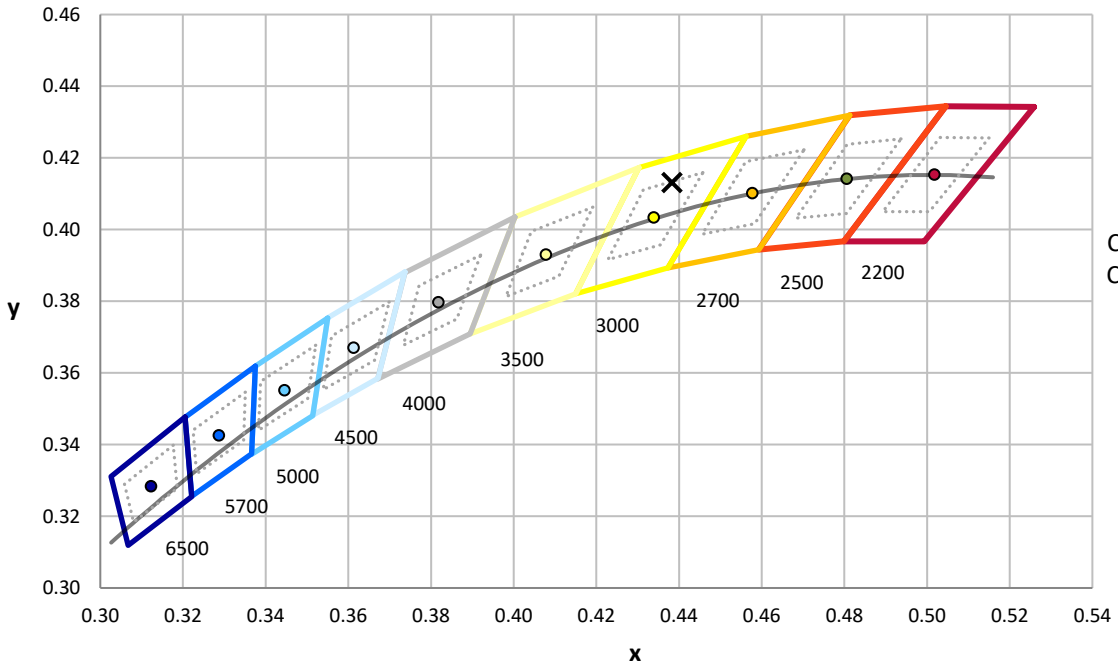
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2408-195-9

CIE 1931 Chromaticity Diagram



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

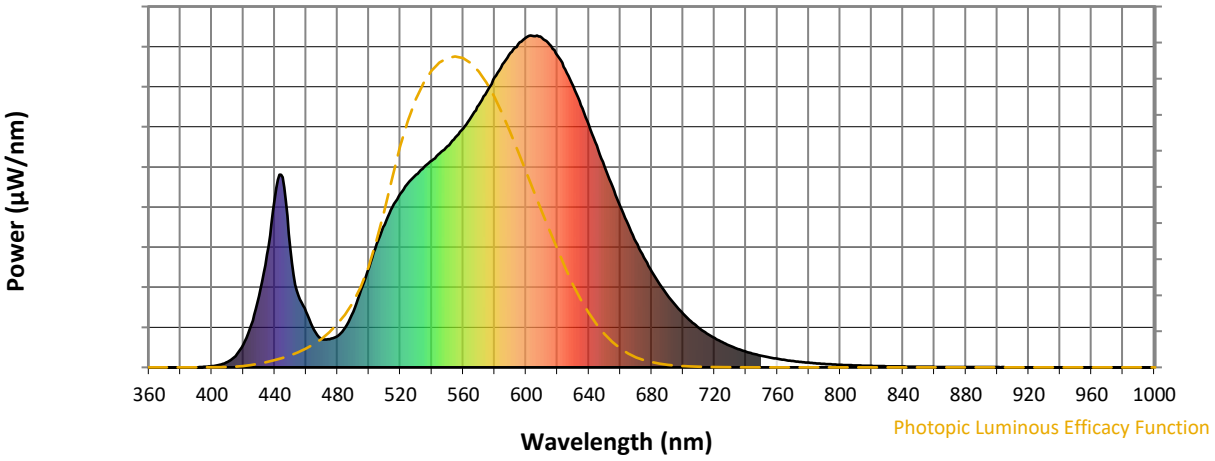


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

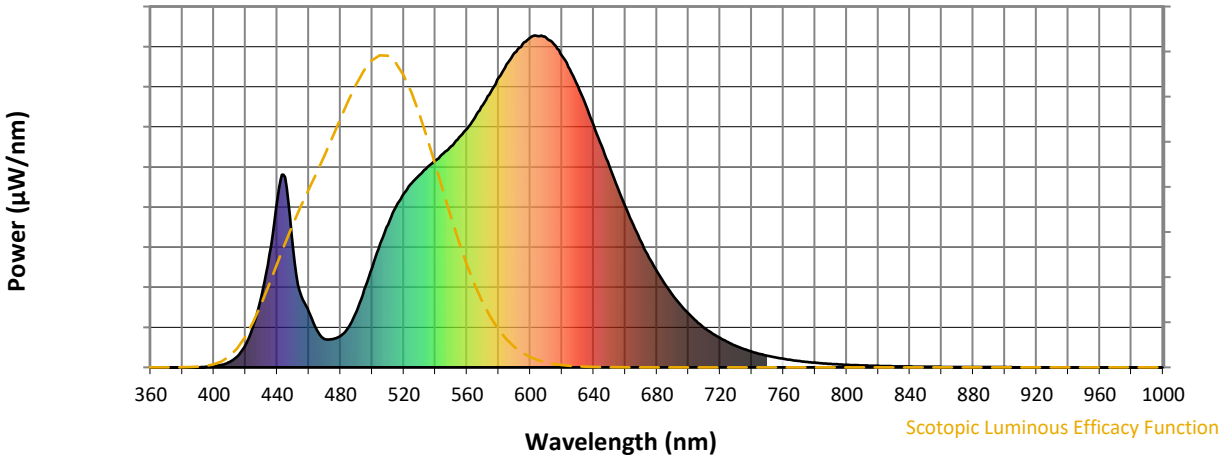


Photopic Lumens: NR

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength

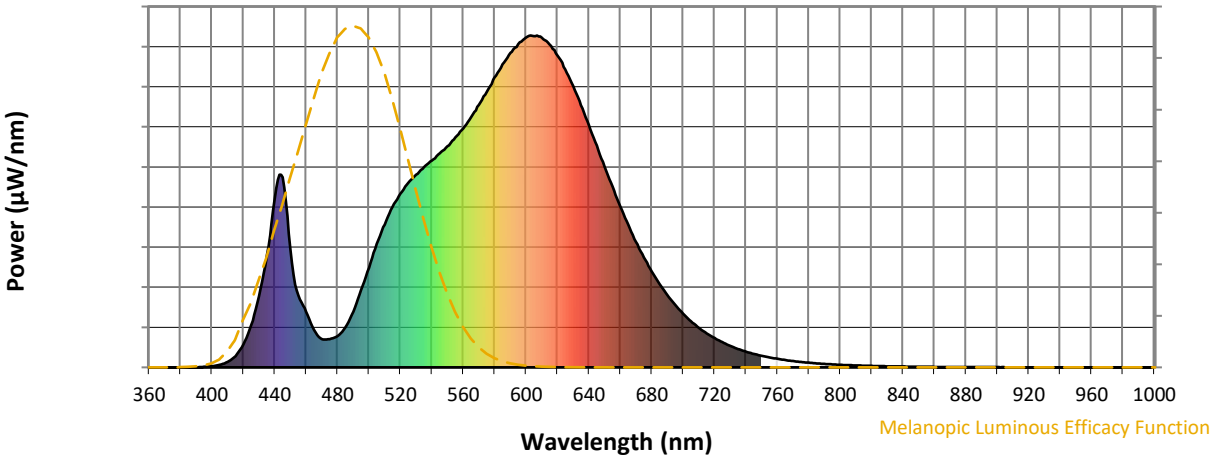


Scotopic Lumens: NR **S/P: 1.27**

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.32**

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

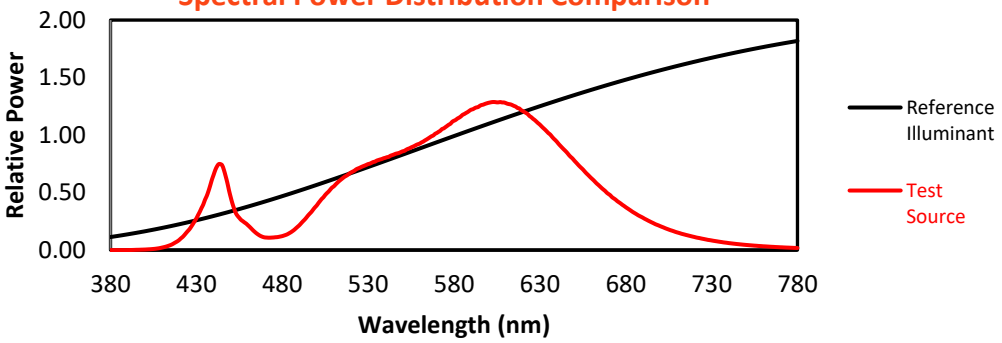
REPORT NUMBER: SP1-2408-195-9

TM-30-18

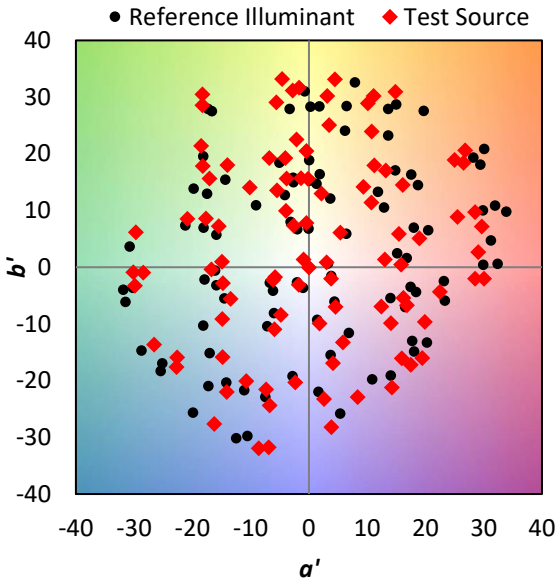
Summary

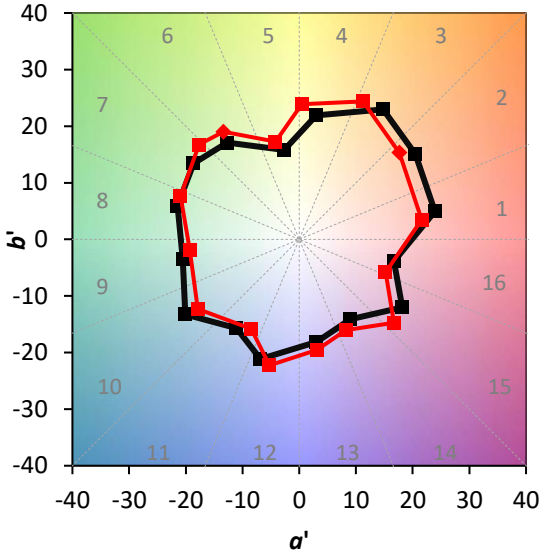
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R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

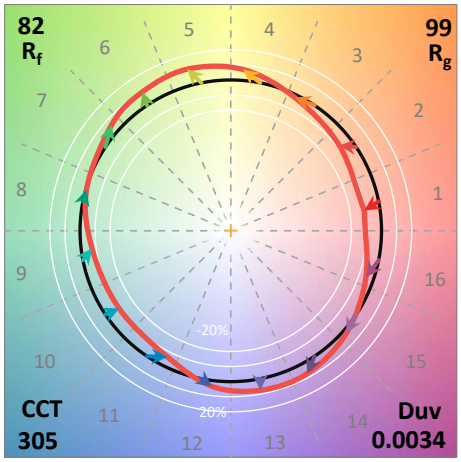
Spectral Power Distribution Comparison

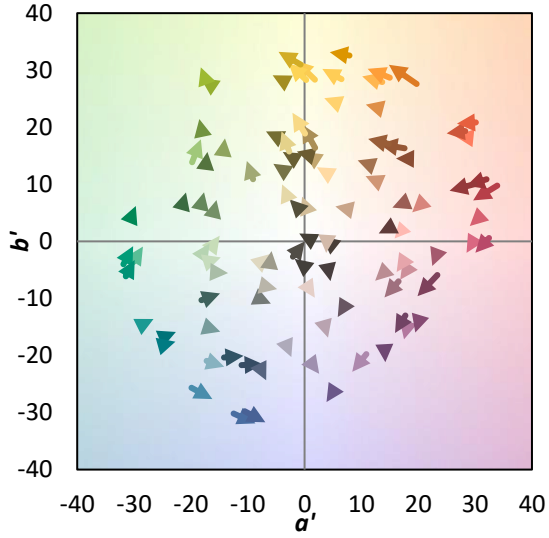


Color Vector Graphics







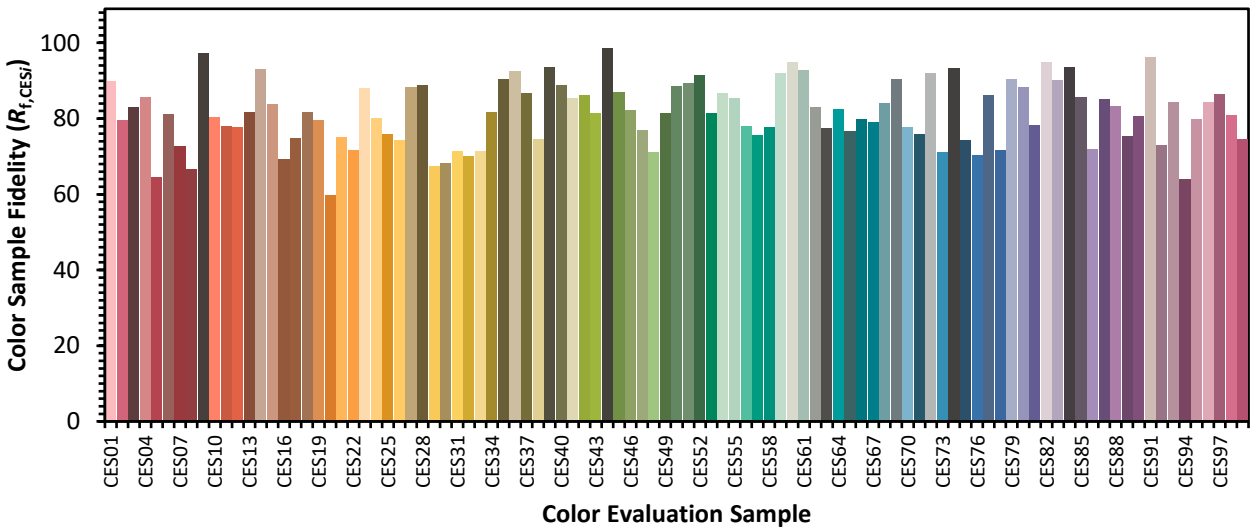


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

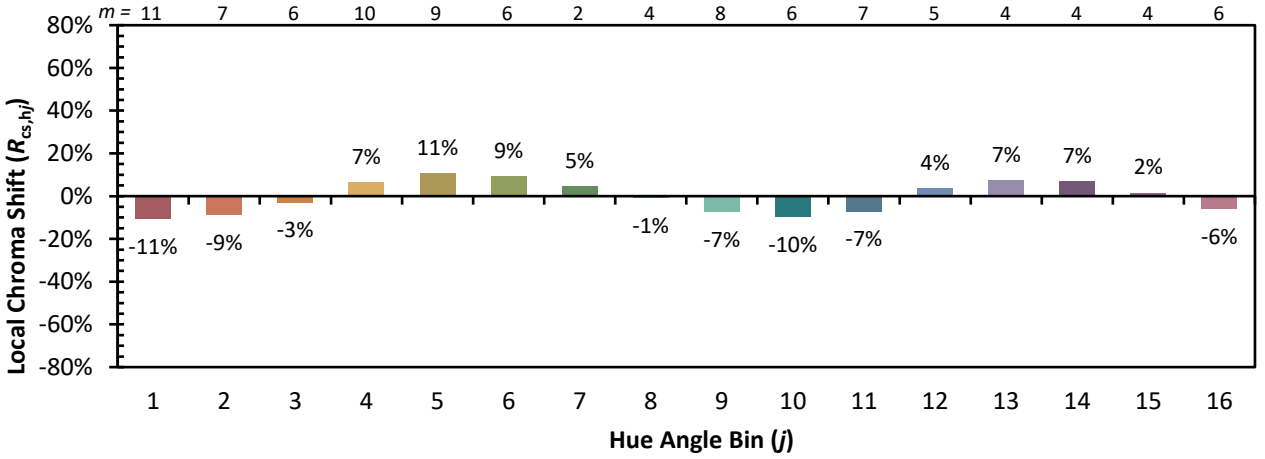
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CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 94
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 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	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	

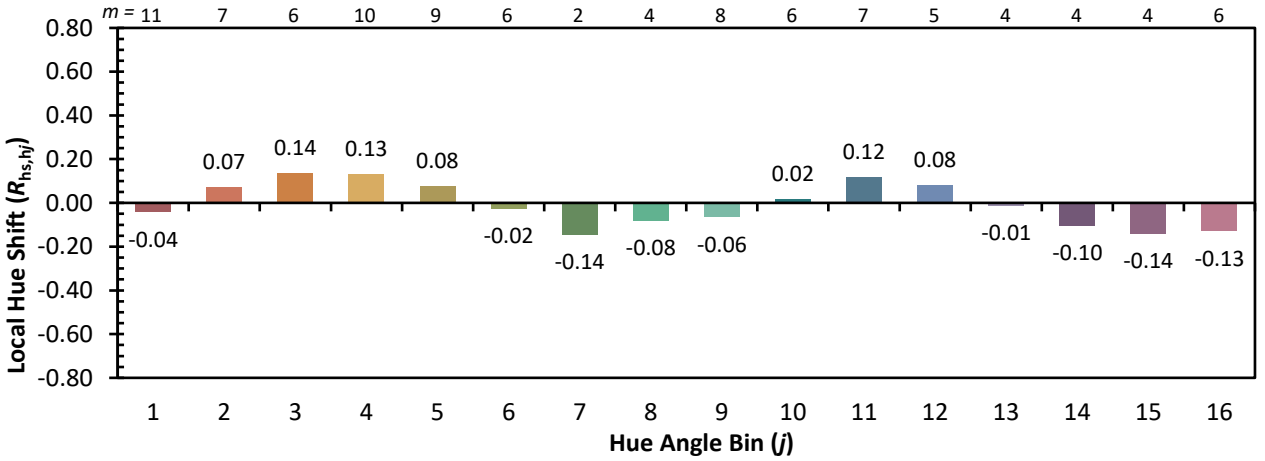


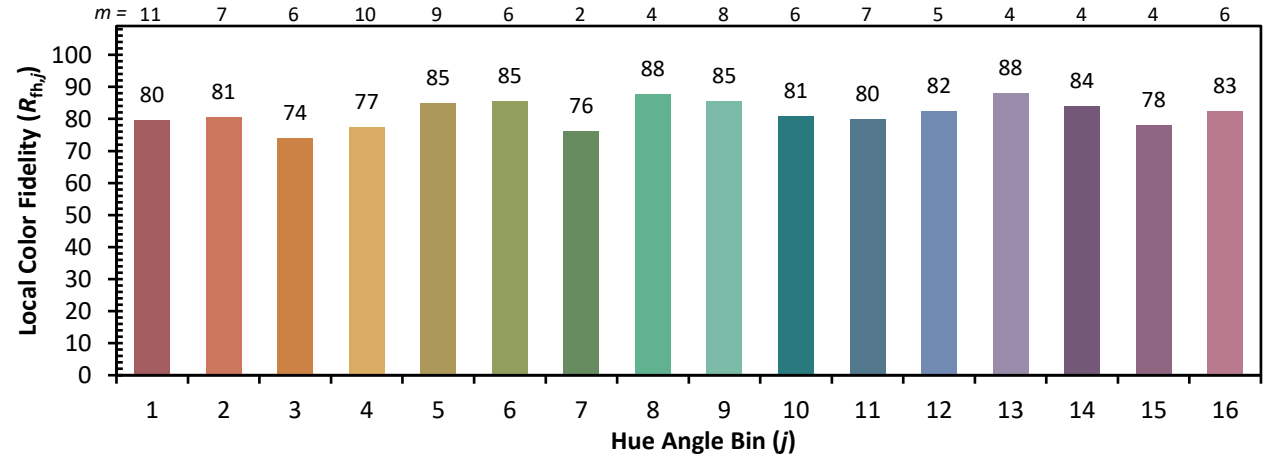
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



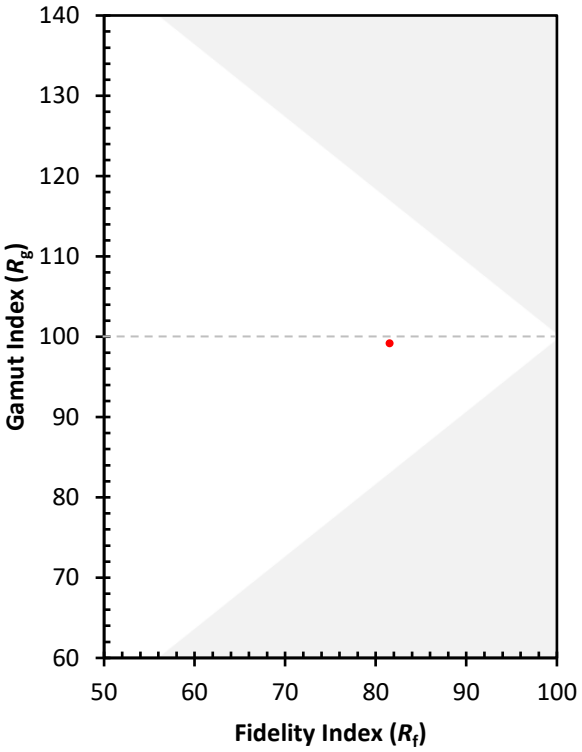


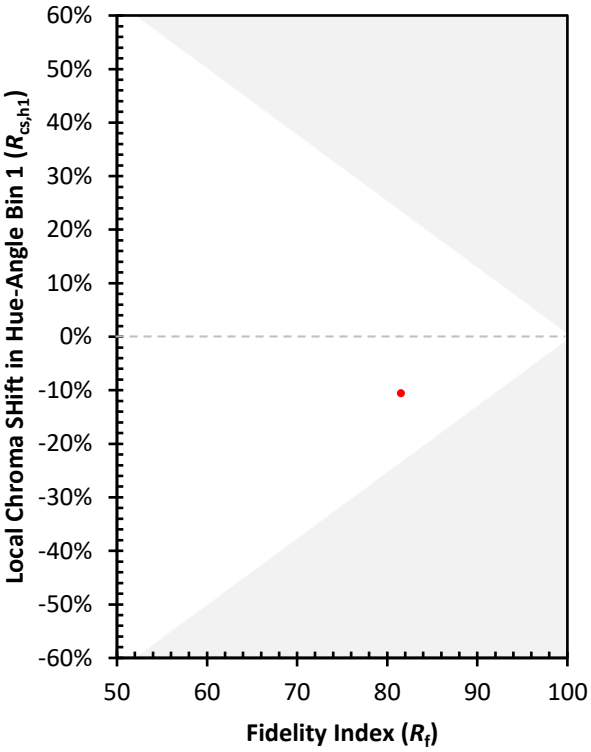


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)