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: P1201994

Luminaire Tested: GWC-SB1C-830-U-SLR-HSS

Issue Date: 10/30/2025

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Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1201994
	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-SB1C-830-U-SLR-HSS
Description:	GALLEON WALL LUMINAIRE
	(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5163 lumens
Efficiency:	N/A
Efficacy:	94.9 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	54.4
Input Voltage (V):	120.0
Input Current (Ain):	0.437
Voltage Rise (V):	NR
Power Factor:	0.993
Total Harmonic Distortion (THDi):	9.314
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

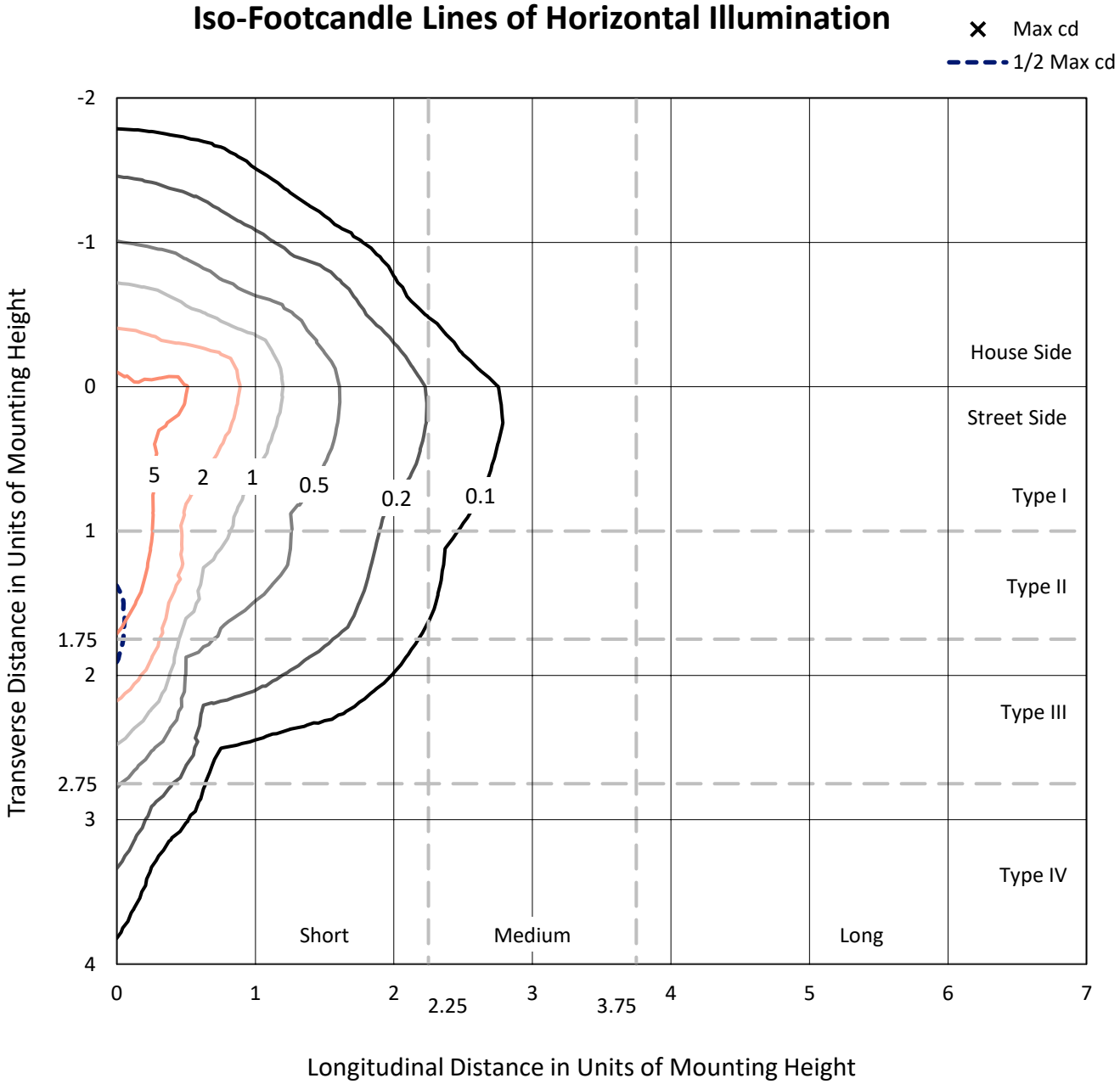


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Iso-Footcandle Lines of Horizontal Illumination



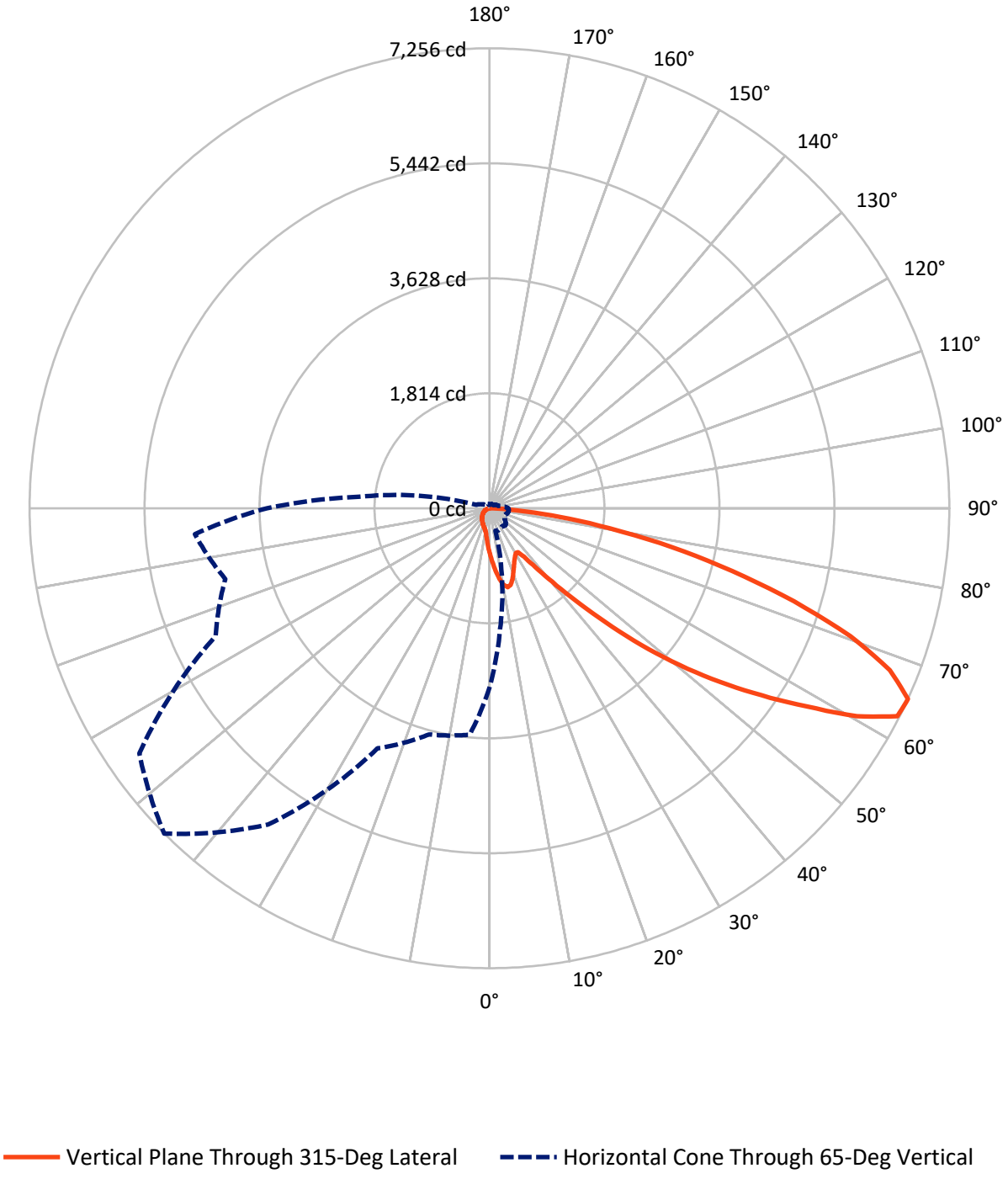
Based on 10 foot mounting height. Maximum calculated value = 12.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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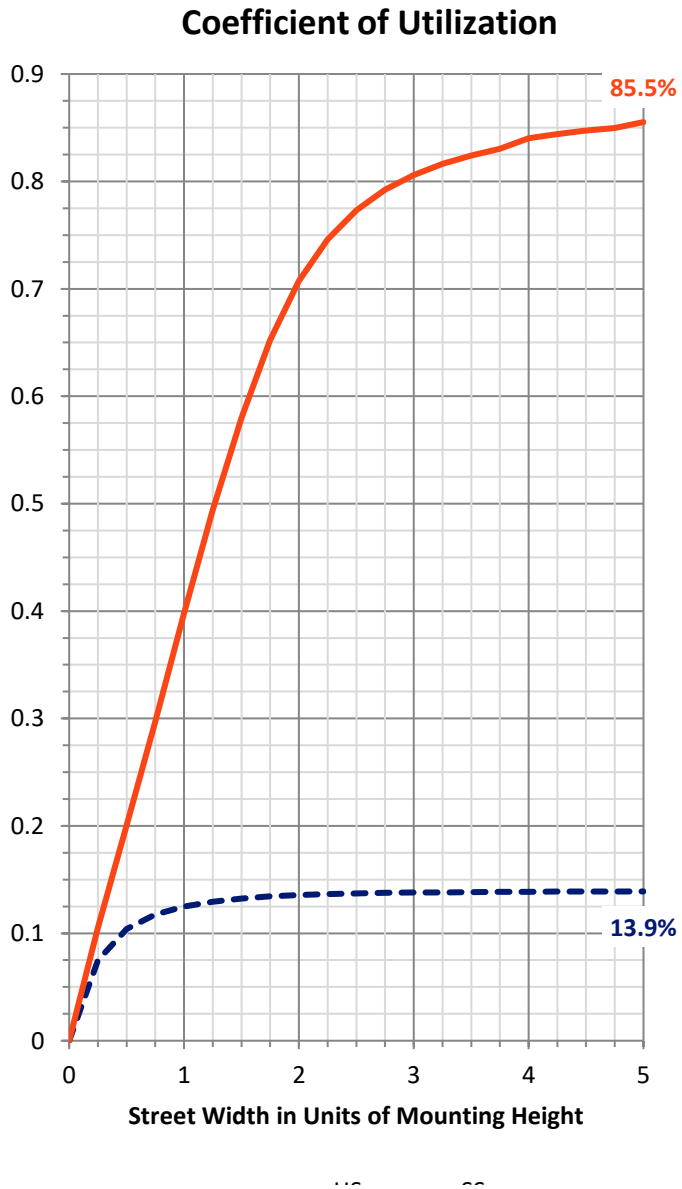
REPORT NUMBER: P1201994
CATALOG NUMBER: GWC-SB1C-830-U-SLR-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	723.0	0.0	723.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	4440.0	0.0	4440.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	5163.0	0.0	5163.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	1.4
10°-20°	211.0	4.1
20°-30°	310.8	6.0
30°-40°	399.3	7.7
40°-50°	645.9	12.5
50°-60°	1132.6	21.9
60°-70°	1417.2	27.4
70°-80°	828.1	16.0
80°-90°	147.7	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°	5163.0	100.0
0°-180°	5163.0	100.0



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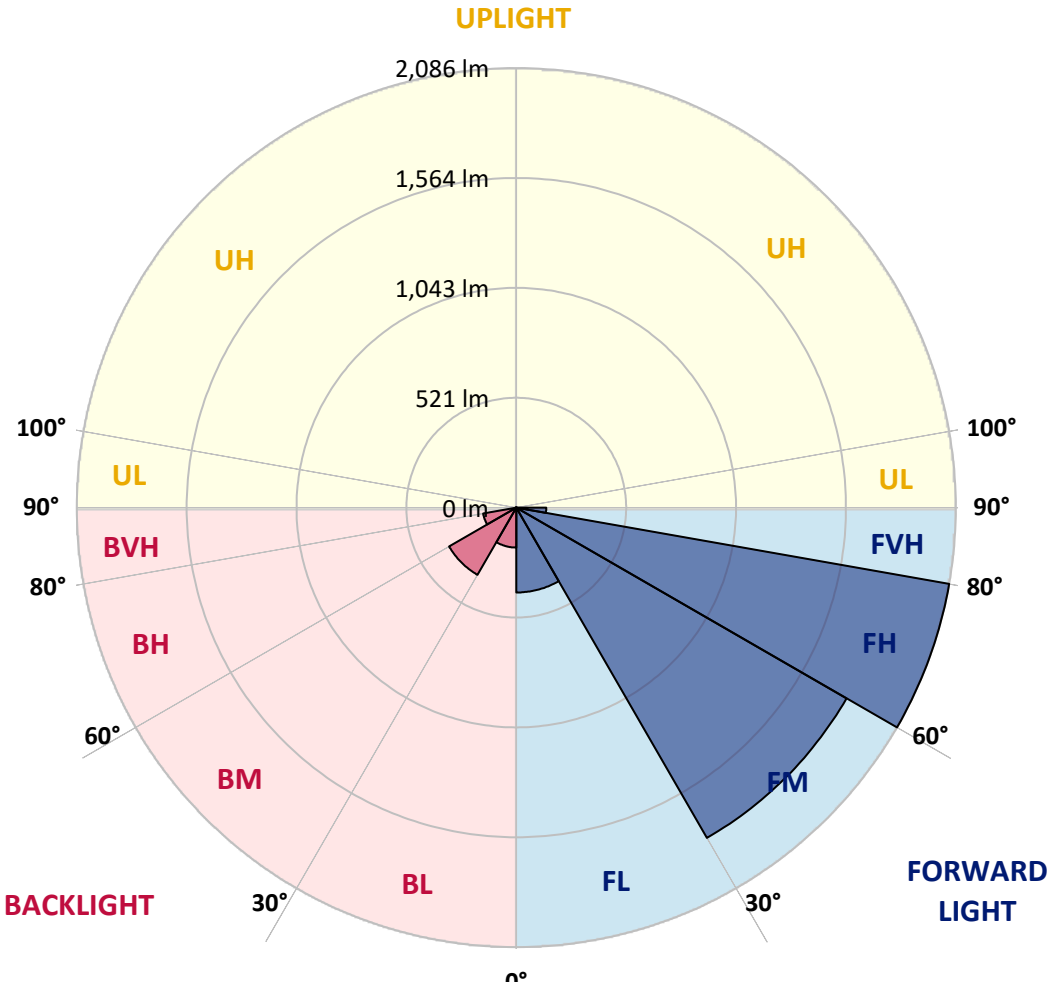
Scaled Data Report

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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°)	402.7	7.8			
FM	(30°-60°)	1809.6	35.0			
FH	(60°-80°)	2085.6	40.4			G2/5000
FVH	(80°-90°)	142.1	2.8			G2/225
BL	(0°-30°)	189.5	3.7	B1/500		
BM	(30°-60°)	368.2	7.1	B1/1000		
BH	(60°-80°)	159.7	3.1	B1/500		G1/500
BVH	(80°-90°)	5.7	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°	714.9	714.9	714.9	714.9	714.9	714.9	714.9	714.9	714.9	714.9	714.9
2.5°	807.7	793.9	785.7	765.4	745.1	728.8	706.7	692.1	674.7	658.0	643.1
5°	900.2	877.8	850.8	813.8	780.0	745.5	712.1	679.0	644.1	612.1	592.6
7.5°	978.5	946.1	898.4	849.4	806.3	764.7	725.6	681.8	639.5	589.4	562.7
10°	1038.2	997.0	934.4	870.0	820.5	778.6	740.5	703.5	660.8	600.4	566.9
12.5°	1074.5	1030.4	956.1	880.7	824.1	777.2	747.6	731.3	714.6	654.4	615.3
15°	1101.2	1053.5	971.4	888.1	815.9	758.3	736.6	753.0	772.2	733.8	688.6
17.5°	1128.9	1078.8	991.3	891.3	793.9	721.7	712.4	754.7	799.2	797.4	752.6
20°	1155.2	1105.4	1008.7	889.2	758.3	677.2	685.4	739.5	791.0	812.7	788.5
22.5°	1185.5	1132.8	1025.4	881.0	712.1	635.6	661.2	715.3	760.4	786.0	778.6
25°	1222.5	1167.3	1048.9	868.9	662.3	601.1	636.7	687.2	723.8	741.6	741.2
27.5°	1262.3	1208.6	1080.2	862.5	622.1	576.6	608.9	653.7	686.5	698.9	698.9
30°	1311.7	1256.6	1117.2	855.4	595.8	562.3	580.1	615.0	647.0	659.4	659.4
32.5°	1365.8	1310.0	1152.7	838.3	579.8	551.7	552.0	574.1	603.2	618.2	620.3
35°	1433.4	1374.0	1190.8	801.0	566.9	539.2	524.6	535.3	559.5	577.3	581.9
37.5°	1529.8	1457.9	1237.4	747.6	548.1	520.0	495.8	498.3	516.8	536.4	543.5
40°	1662.8	1570.7	1292.2	692.1	521.1	493.0	464.2	463.1	476.6	495.8	503.6
42.5°	1842.8	1719.7	1358.0	639.2	495.1	460.2	430.7	428.9	439.6	456.3	464.5
45°	2080.4	1910.3	1438.7	593.6	474.8	428.2	399.1	398.4	407.2	421.8	430.4
47.5°	2384.5	2175.3	1519.5	562.7	464.2	403.0	373.1	374.5	382.4	395.5	401.6
50°	2778.2	2520.7	1544.0	547.0	464.2	389.5	350.0	357.1	363.5	373.5	377.0
52.5°	3250.2	2852.2	1462.9	532.8	467.0	391.2	330.4	345.7	350.3	358.9	360.3
55°	3687.7	3014.7	1257.7	513.2	467.7	402.3	313.7	336.5	345.0	348.2	347.9
57.5°	3941.6	2958.9	1016.9	480.2	464.9	409.7	303.0	325.1	341.4	343.6	340.4
60°	3893.2	2762.9	748.7	454.9	443.9	406.9	299.8	307.7	333.6	336.8	332.6
62.5°	3520.5	2434.3	519.6	435.3	397.6	394.4	298.8	280.3	316.6	324.4	318.3
65°	*2829.8*	*1916.4*	*367.1*	*374.9*	*348.6*	*367.4*	*293.1*	*251.8*	*295.9*	*306.6*	*297.3*
67.5°	2053.0	1296.8	265.0	303.7	315.8	323.7	280.3	231.2	272.4	286.7	274.6
70°	1317.4	700.3	186.0	200.6	266.0	274.9	258.2	212.7	248.6	265.0	251.8
72.5°	936.5	413.7	133.7	140.5	213.8	229.1	227.3	192.1	220.9	240.8	225.1
75°	646.3	228.0	90.3	100.3	155.1	186.0	175.3	165.0	187.1	207.4	192.1
77.5°	405.1	102.1	54.1	69.7	101.7	146.2	120.2	127.7	145.8	164.7	148.7
80°	225.5	39.5	30.2	46.2	55.5	106.3	66.5	82.2	107.4	120.9	108.1
82.5°	49.1	5.0	13.5	19.9	21.7	61.9	35.2	47.7	67.6	66.5	57.6
85°	0.0	0.0	2.5	2.8	1.4	26.7	12.8	15.6	22.1	20.6	15.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	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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Scaled Data Report

REPORT NUMBER: P1201994
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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	714.9	714.9	714.9	714.9	714.9	714.9	714.9	714.9	714.9	714.9	714.9
2.5°	640.2	622.8	610.0	603.6	598.2	603.2	606.1	606.1	618.2	625.3	628.1
5°	580.1	548.8	525.0	509.0	499.4	502.6	506.1	510.0	525.3	535.6	542.4
7.5°	538.5	490.5	454.2	431.8	420.1	421.8	424.3	427.5	442.5	452.8	461.7
10°	530.7	461.7	410.5	380.9	366.7	364.2	362.8	361.7	370.6	378.4	385.6
12.5°	562.7	463.1	391.6	355.7	338.2	330.8	322.2	315.5	316.9	321.9	330.8
15°	619.9	481.2	385.6	342.5	320.8	308.4	298.4	290.2	288.5	290.2	291.7
17.5°	685.4	505.8	384.8	331.1	304.1	291.3	283.1	275.6	273.2	273.5	275.3
20°	728.8	525.3	382.7	318.3	288.1	276.7	269.6	262.1	259.6	260.4	260.7
22.5°	733.0	535.6	379.5	304.1	272.1	262.5	255.4	248.6	248.3	248.3	250.4
25°	709.9	535.6	372.7	291.3	256.8	248.3	241.9	233.7	235.1	235.8	238.7
27.5°	674.0	522.8	359.9	281.0	243.6	234.7	228.3	220.9	222.7	223.7	226.9
30°	638.4	506.5	344.7	269.2	231.2	220.9	216.3	209.8	210.6	212.0	215.5
32.5°	605.4	489.1	326.5	259.6	218.7	208.4	204.9	197.8	198.8	200.2	204.2
35°	572.6	469.8	305.2	248.3	207.4	197.0	194.2	186.0	186.7	188.9	193.1
37.5°	537.4	449.6	287.7	236.9	196.3	185.7	182.8	174.3	175.0	177.5	182.5
40°	500.4	429.7	270.7	224.8	184.6	173.9	171.4	162.2	162.9	165.7	171.1
42.5°	463.1	408.0	257.5	209.1	172.5	161.1	158.6	150.1	151.2	154.4	159.7
45°	428.6	382.0	249.0	191.7	161.1	148.3	145.8	138.0	140.1	143.7	149.0
47.5°	399.1	355.3	245.4	177.1	149.0	135.2	133.0	126.6	130.2	134.1	138.4
50°	373.8	329.7	240.8	162.2	137.6	123.8	121.6	117.4	122.0	125.9	129.8
52.5°	355.7	300.5	230.8	148.7	127.7	114.2	113.5	111.3	115.6	119.2	122.7
55°	340.0	270.3	214.8	136.9	118.8	106.0	106.7	105.6	109.2	112.0	115.2
57.5°	325.8	244.0	194.6	127.7	109.2	98.9	101.0	99.6	101.4	103.1	107.1
60°	308.7	217.3	170.4	117.4	97.8	91.8	94.3	90.3	90.0	90.7	91.8
62.5°	283.5	181.4	145.1	104.6	87.9	83.9	85.0	77.5	71.8	71.8	72.9
65°	*248.3*	*145.8*	*121.6*	*90.3*	*76.5*	*73.3*	*72.6*	*61.9*	*54.1*	*53.4*	*56.6*
67.5°	207.4	119.9	101.0	76.1	63.7	61.5	62.2	54.4	46.6	45.9	49.4
70°	168.9	99.2	81.4	60.8	49.1	51.2	54.4	46.6	39.1	38.1	41.3
72.5°	137.3	79.0	63.7	46.6	36.3	42.3	46.2	38.1	30.9	30.2	33.1
75°	106.0	58.0	45.5	31.7	26.3	32.7	36.3	27.7	22.1	21.0	23.5
77.5°	70.8	35.9	25.6	19.9	15.6	22.4	24.2	14.6	12.8	12.4	14.2
80°	43.0	16.7	11.0	9.6	5.3	8.2	9.6	6.0	6.8	7.1	8.5
82.5°	21.7	4.6	1.8	0.4	0.0	0.0	2.8	1.4	2.8	3.6	5.3
85°	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.8	3.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
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°	714.9	714.9	714.9	714.9	714.9	714.9	714.9	714.9	714.9	714.9	714.9
2.5°	648.0	663.0	677.2	700.0	723.4	746.6	770.0	792.8	801.0	807.0	820.5
5°	573.4	601.4	634.2	679.3	727.7	777.5	828.0	874.3	895.2	909.5	941.5
7.5°	496.2	532.8	579.8	647.7	723.4	802.8	882.1	955.0	988.8	1016.2	1064.9
10°	419.7	459.5	518.9	596.5	698.9	812.7	922.3	1022.6	1066.3	1100.8	1167.0
12.5°	352.5	389.8	452.1	537.8	660.5	804.9	945.4	1066.0	1117.5	1156.3	1228.9
15°	305.2	331.5	386.6	479.1	615.0	779.6	946.8	1086.6	1143.1	1183.7	1246.6
17.5°	278.9	287.7	323.7	419.3	564.5	746.6	933.7	1093.7	1154.2	1191.9	1235.6
20°	264.6	266.0	276.0	341.8	499.7	715.6	921.2	1100.8	1164.5	1196.1	1209.3
22.5°	253.2	253.2	255.7	279.6	416.1	678.6	917.3	1113.3	1178.7	1198.3	1171.2
25°	242.9	242.9	243.6	250.0	329.7	622.1	914.8	1132.5	1198.3	1203.6	1129.3
27.5°	232.3	232.6	232.6	236.2	265.7	545.3	904.1	1157.4	1221.7	1210.7	1089.1
30°	221.6	222.3	222.3	224.8	235.1	455.3	883.1	1187.2	1252.3	1220.0	1049.2
32.5°	210.9	211.6	211.6	213.8	221.2	363.5	856.8	1214.6	1283.3	1223.9	1012.3
35°	199.9	201.0	200.2	203.1	210.9	289.2	823.4	1242.0	1316.7	1236.3	994.1
37.5°	188.9	189.6	189.2	192.1	201.0	249.7	784.6	1262.7	1362.2	1264.1	1015.8
40°	177.8	177.5	177.5	180.7	190.3	238.3	735.9	1295.4	1427.7	1312.8	1110.4
42.5°	166.5	166.5	165.7	169.3	181.0	229.8	689.3	1354.1	1523.0	1390.3	1278.3
45°	156.1	155.8	154.4	157.6	172.1	214.8	672.9	1463.6	1663.9	1515.9	1481.4
47.5°	146.2	145.8	142.3	145.1	161.5	201.3	734.1	1642.9	1859.1	1700.5	1671.7
50°	137.3	137.6	130.9	133.4	150.8	191.0	866.8	1875.5	2118.4	1949.1	1852.0
52.5°	129.1	129.1	120.2	121.6	137.6	181.8	993.0	2127.7	2460.6	2295.9	2062.2
55°	120.9	120.2	110.3	111.0	124.5	168.6	1011.9	2373.8	2927.2	2817.7	2349.6
57.5°	111.7	110.3	101.0	101.0	112.4	159.0	877.1	2563.0	3506.3	3584.5	2764.0
60°	100.3	99.2	93.2	91.4	102.8	167.5	618.9	2585.1	3879.7	4604.2	3557.5
62.5°	85.7	87.1	83.9	81.4	93.5	173.9	366.7	2407.6	3789.4	4928.6	4507.8
65°	*67.6*	*73.3*	*72.6*	*70.8*	*102.8*	*146.5*	*216.6*	*2066.8*	*3512.3*	*4666.8*	*4314.0*
67.5°	57.6	61.5	60.5	60.5	107.8	111.3	136.2	1614.8	3131.0	4356.3	3853.4
70°	49.1	53.0	49.1	49.1	81.4	67.6	94.3	1127.5	2719.5	4012.7	3551.1
72.5°	40.5	44.5	40.2	37.3	65.1	50.5	69.0	704.6	2329.0	3654.9	3344.1
75°	30.9	35.6	32.4	28.8	43.0	37.7	52.3	409.4	1929.5	3127.1	3049.2
77.5°	19.6	25.6	24.2	20.3	31.7	27.4	37.7	243.6	1488.9	2443.5	2622.8
80°	12.1	13.2	13.5	12.8	18.1	18.5	25.6	138.7	1019.0	1703.0	2049.1
82.5°	7.8	7.8	6.0	6.8	8.9	10.7	14.6	52.3	599.0	1036.8	1426.3
85°	5.7	5.0	3.2	3.2	4.3	5.3	5.7	16.0	242.9	409.4	557.7
87.5°	2.8	2.5	1.1	1.4	2.1	1.8	1.4	0.7	61.2	130.9	91.8
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: P1201994
CATALOG NUMBER: GWC-SB1C-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	714.9	714.9	*714.9*	714.9	714.9	714.9	714.9	714.9
2.5°	827.7	838.7	*839.4*	839.4	829.8	829.4	809.9	807.7
5°	974.6	981.7	*983.4*	979.9	960.7	946.5	908.4	900.2
7.5°	1109.0	1123.2	*1123.2*	1114.7	1083.4	1054.2	999.1	978.5
10°	1216.4	1232.8	*1229.2*	1211.8	1172.3	1132.1	1065.3	1038.2
12.5°	1268.7	1285.4	*1276.2*	1256.3	1217.8	1175.5	1105.1	1074.5
15°	1267.6	1263.0	*1253.4*	1250.9	1232.4	1200.4	1134.6	1101.2
17.5°	1222.5	1183.3	*1175.9*	1200.8	1224.2	1216.4	1160.2	1128.9
20°	1151.0	1082.7	*1075.9*	1123.6	1190.5	1224.6	1184.0	1155.2
22.5°	1075.6	1001.9	*986.3*	1038.9	1139.6	1227.1	1214.3	1185.5
25°	1004.1	930.1	*914.4*	963.5	1083.0	1222.8	1247.0	1222.5
27.5°	944.3	872.8	*858.2*	907.3	1028.6	1210.7	1279.7	1262.3
30°	898.1	831.9	*821.3*	868.6	981.7	1195.8	1321.3	1311.7
32.5°	871.1	822.7	*826.6*	865.4	956.4	1179.4	1361.2	1365.8
35°	897.7	899.9	*934.0*	950.0	979.9	1176.9	1415.2	1433.4
37.5°	1030.4	1104.4	*1175.2*	1162.0	1094.8	1205.7	1496.0	1529.8
40°	1256.3	1408.1	*1523.0*	1472.9	1303.6	1294.0	1612.3	1662.8
42.5°	1532.3	1789.8	*1979.0*	1844.5	1572.8	1448.3	1778.4	1842.8
45°	1823.6	2260.3	*2558.4*	2278.8	1859.8	1664.6	2029.8	2080.4
47.5°	2130.5	2832.3	*3217.8*	2760.4	2125.9	1910.7	2372.7	2384.5
50°	2466.3	3459.3	*3890.0*	3241.6	2382.7	2192.7	2791.7	2778.2
52.5°	2786.0	4104.2	*4548.0*	3725.0	2608.2	2542.7	3277.9	3250.2
55°	3091.2	4748.6	*5210.0*	4189.5	2820.9	3005.1	3855.5	3687.7
57.5°	3445.1	5328.0	*5892.1*	4656.2	3118.2	3605.5	4501.4	3941.6
60°	3968.3	5986.4	*6663.6*	5295.7	3683.7	4236.5	4733.0	3893.2
62.5°	4636.2	6591.8	*7224.5*	5922.4	4251.8	4355.3	4391.9	3520.5
65°	*4766.1*	*6745.1*	*7256.2*	*6089.9*	*4178.5*	*3694.4*	*3585.6*	*2829.8*
67.5°	4421.8	6468.0	*6813.7*	5778.0	3696.2	2855.0	2690.7	2053.0
70°	4035.5	5939.8	*6042.6*	5247.7	3250.9	2099.9	1817.2	1317.4
72.5°	3639.6	5235.2	*5022.5*	4557.3	2857.2	1529.1	1310.7	936.5
75°	3169.4	4308.7	*3956.2*	3786.5	2365.6	1200.1	948.2	646.3
77.5°	2538.1	3032.9	*2938.6*	2935.0	1777.7	876.7	632.7	405.1
80°	1790.5	1968.3	*1920.3*	2210.5	1192.6	636.0	380.9	225.5
82.5°	866.8	1088.4	*1117.2*	1316.4	580.1	374.2	87.9	49.1
85°	339.3	525.0	*442.8*	499.7	162.9	104.2	2.1	0.0
87.5°	38.1	60.8	*55.8*	44.1	19.9	4.3	0.0	0.0
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

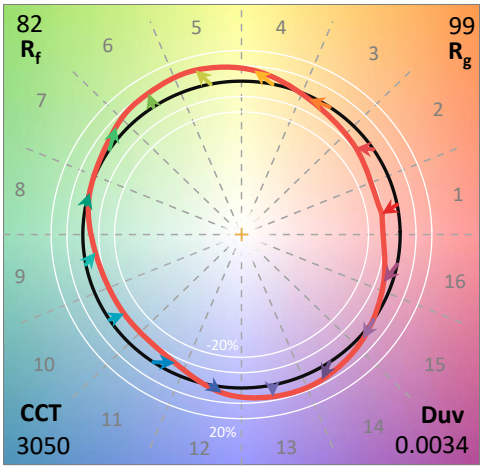
Test Information

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

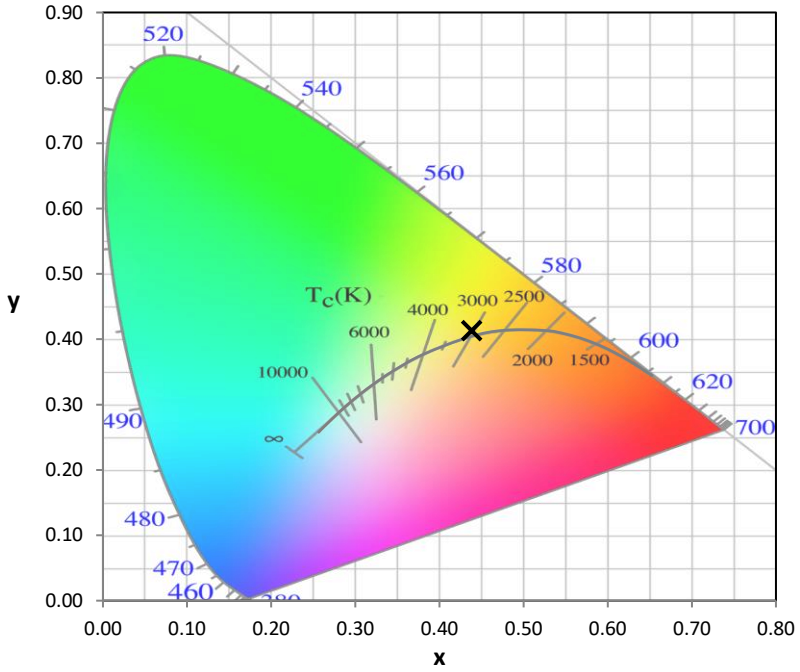
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

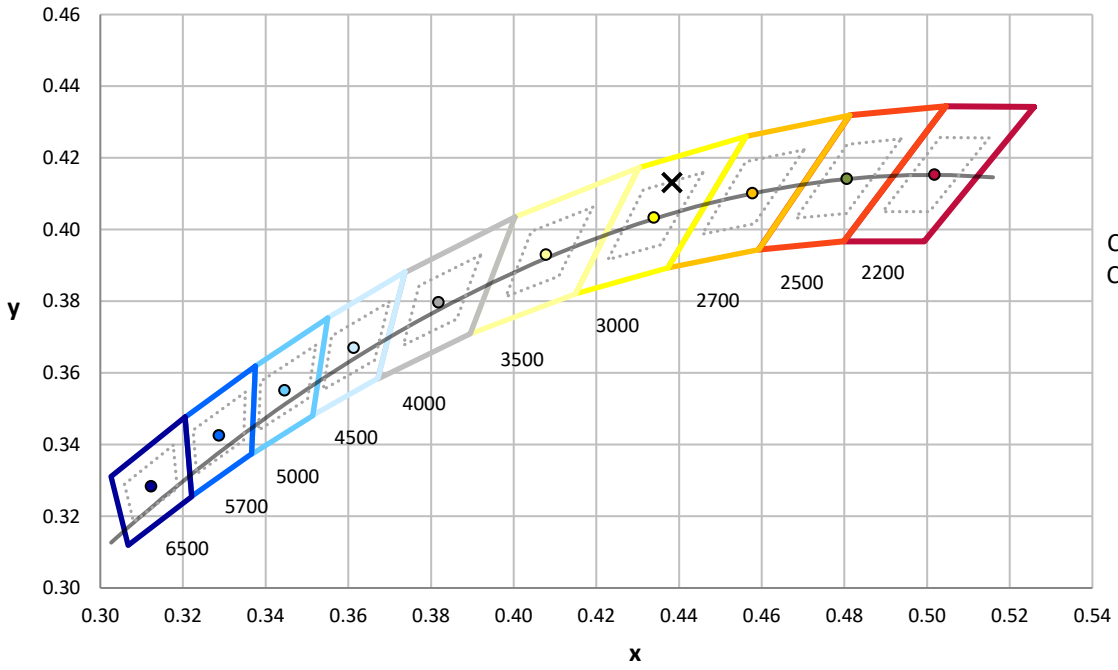
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

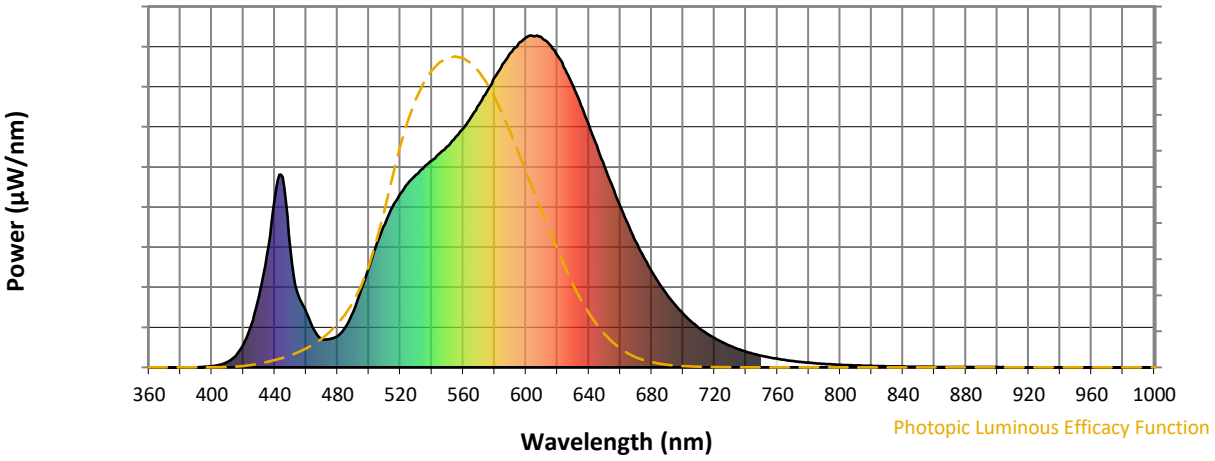


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

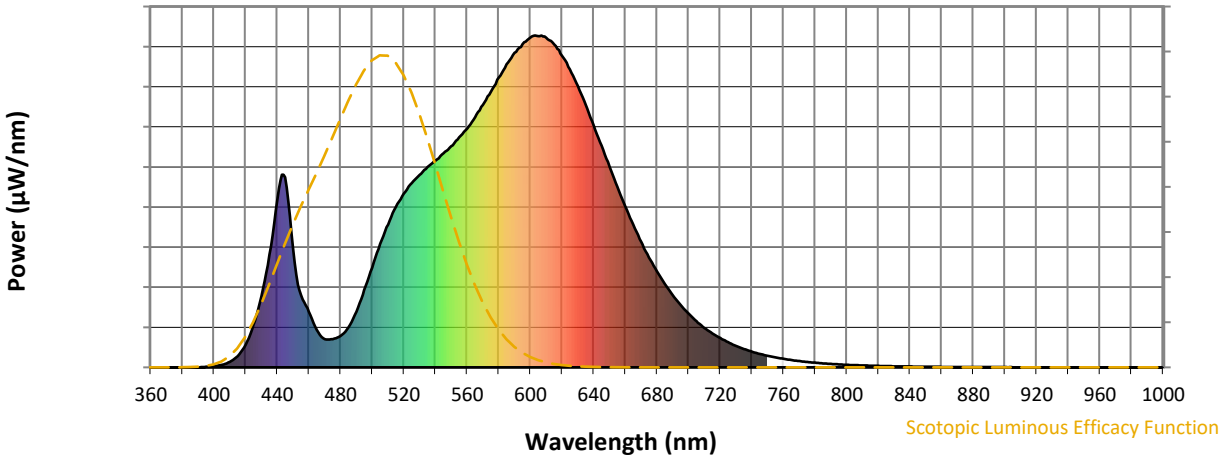


Photopic Lumens: NR

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

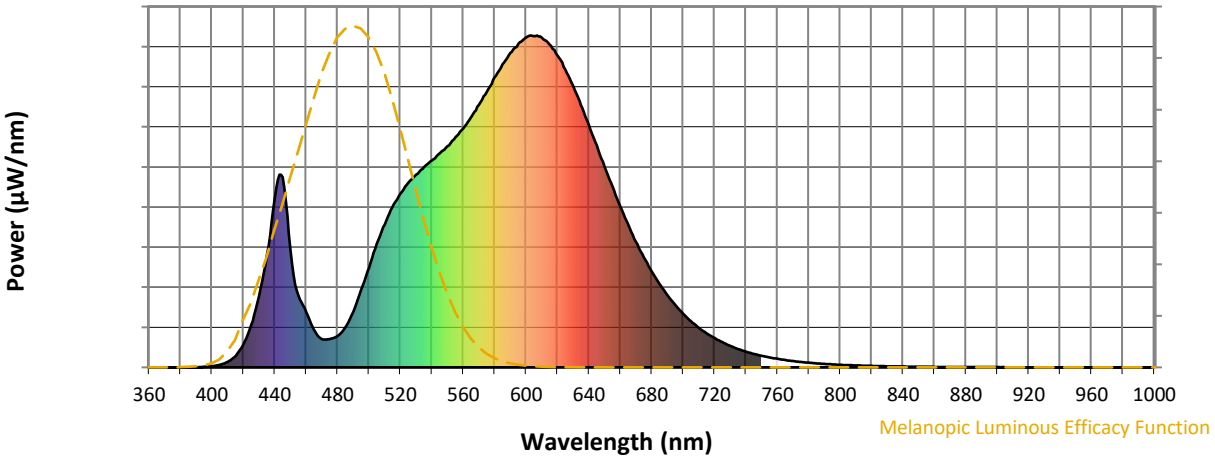


Scotopic Lumens: NR **S/P: 1.27**

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			

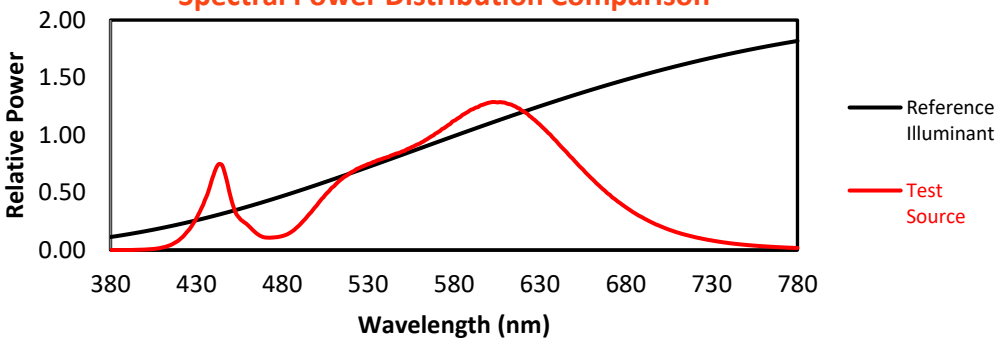
REPORT NUMBER: SP1-2408-195-9

TM-30-18

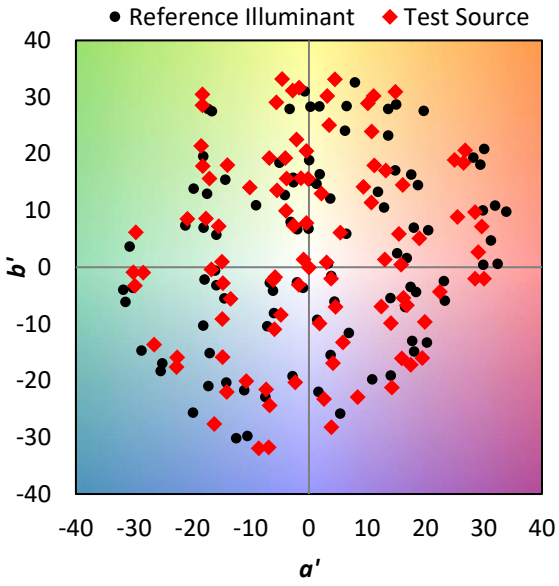
Summary

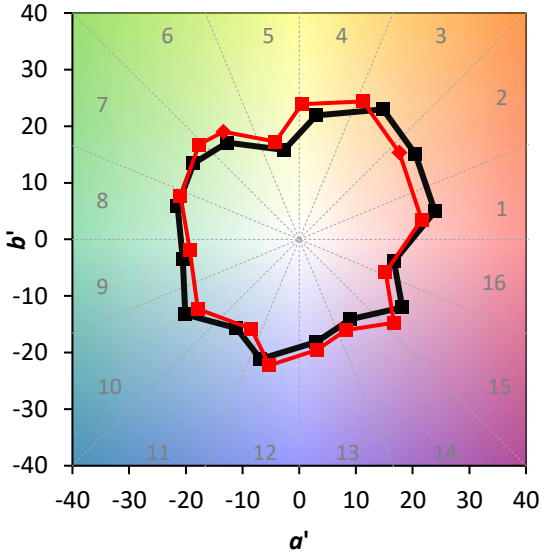
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R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

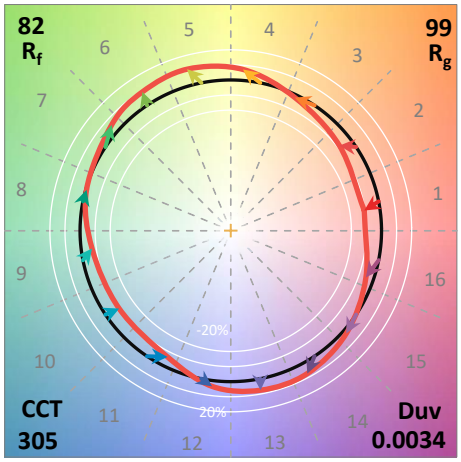
Spectral Power Distribution Comparison

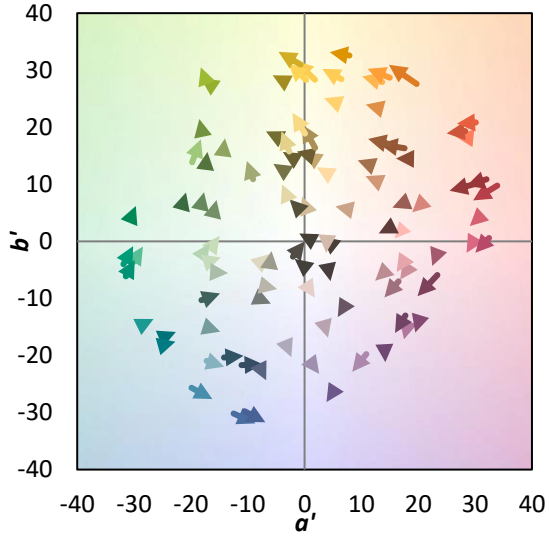


Color Vector Graphics







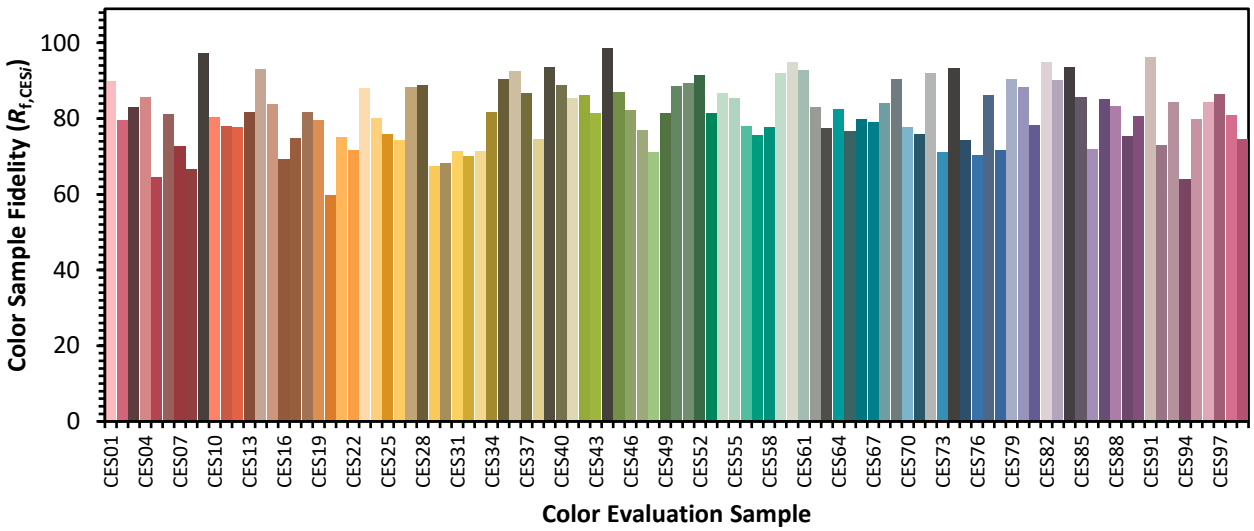


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

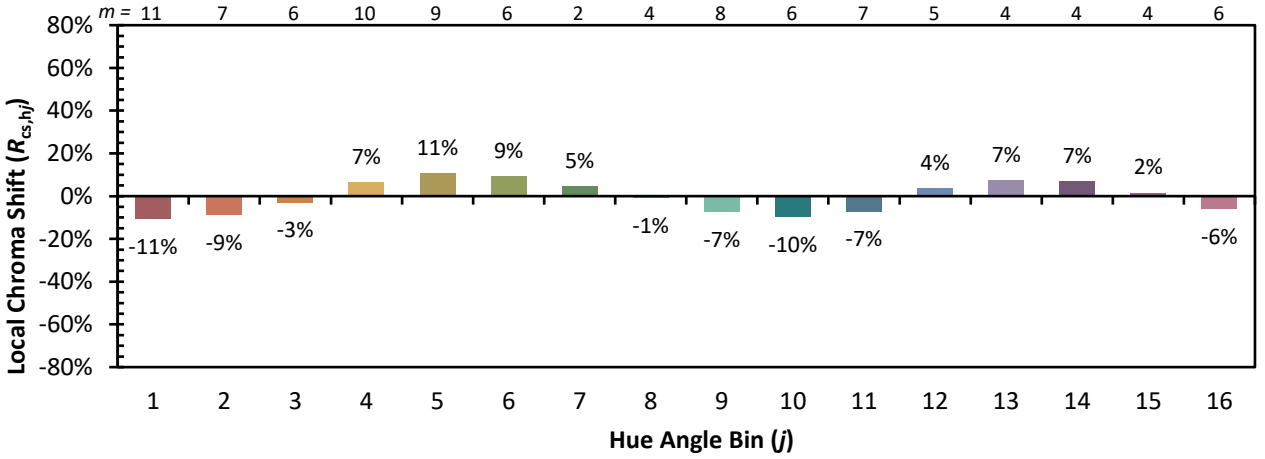
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 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
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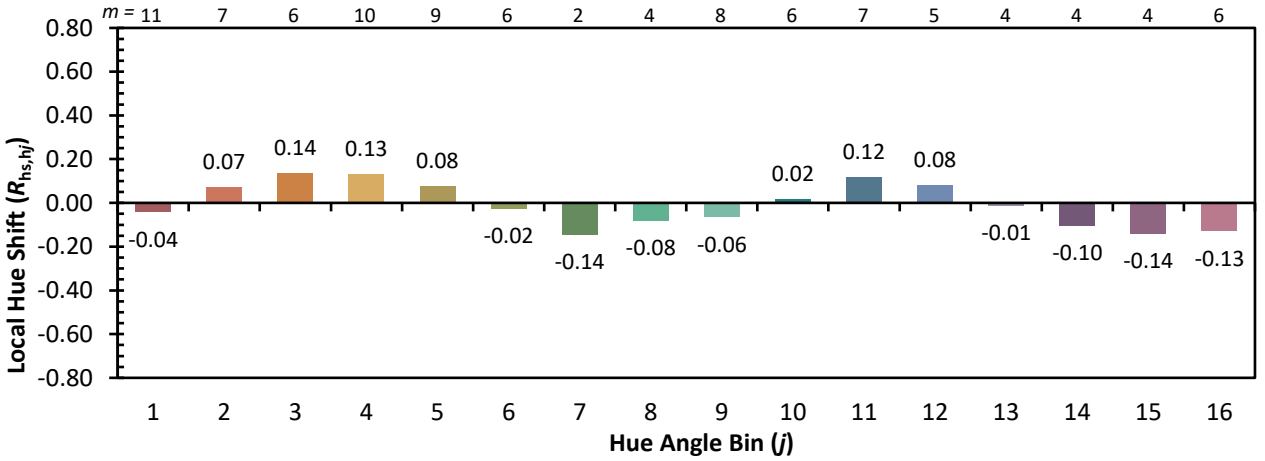


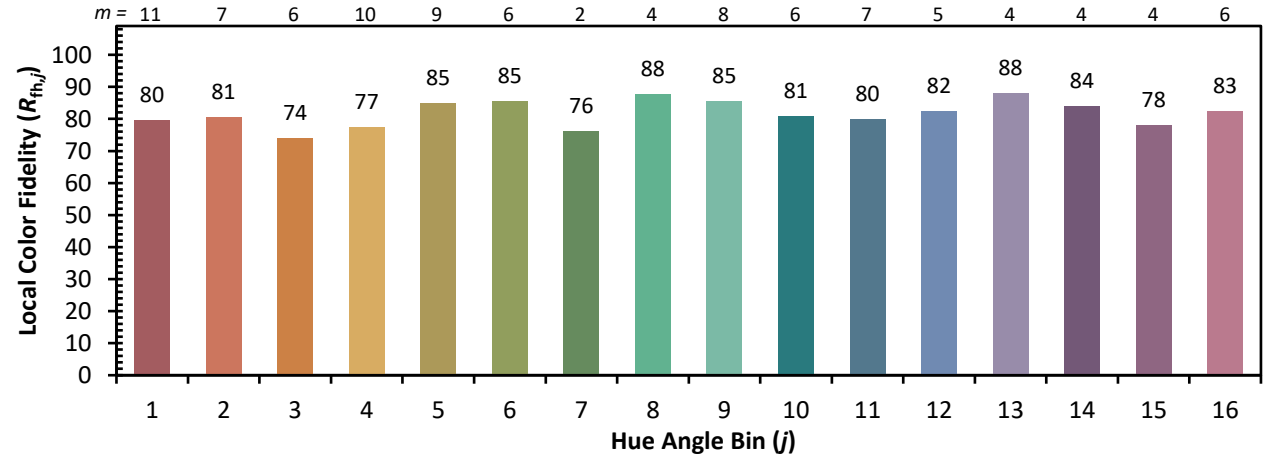
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



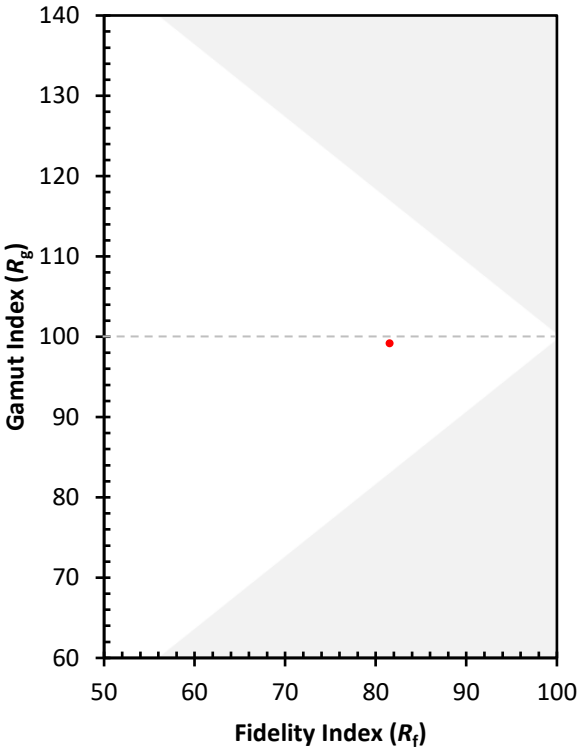


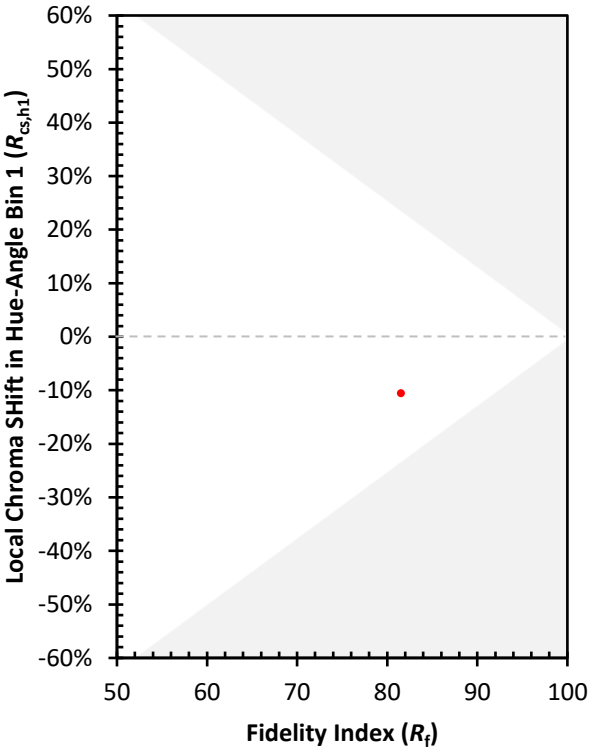


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)