Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P385832

Luminaire Tested: **GPC-SA1B-830-U-SLR-HSS**

Issue Date: 3/3/2020

Report Generated By 670245982

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P385832
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GPC-SA1B-830-U-SLR-HSS
Description:	GALLEON PEDESTRIAN LUMINAIRE
	(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 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:	3595 lumens
Efficiency:	N/A
Efficacy:	81.7 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type IV - Medium
BUG Rating:	B1 - U0 - G1

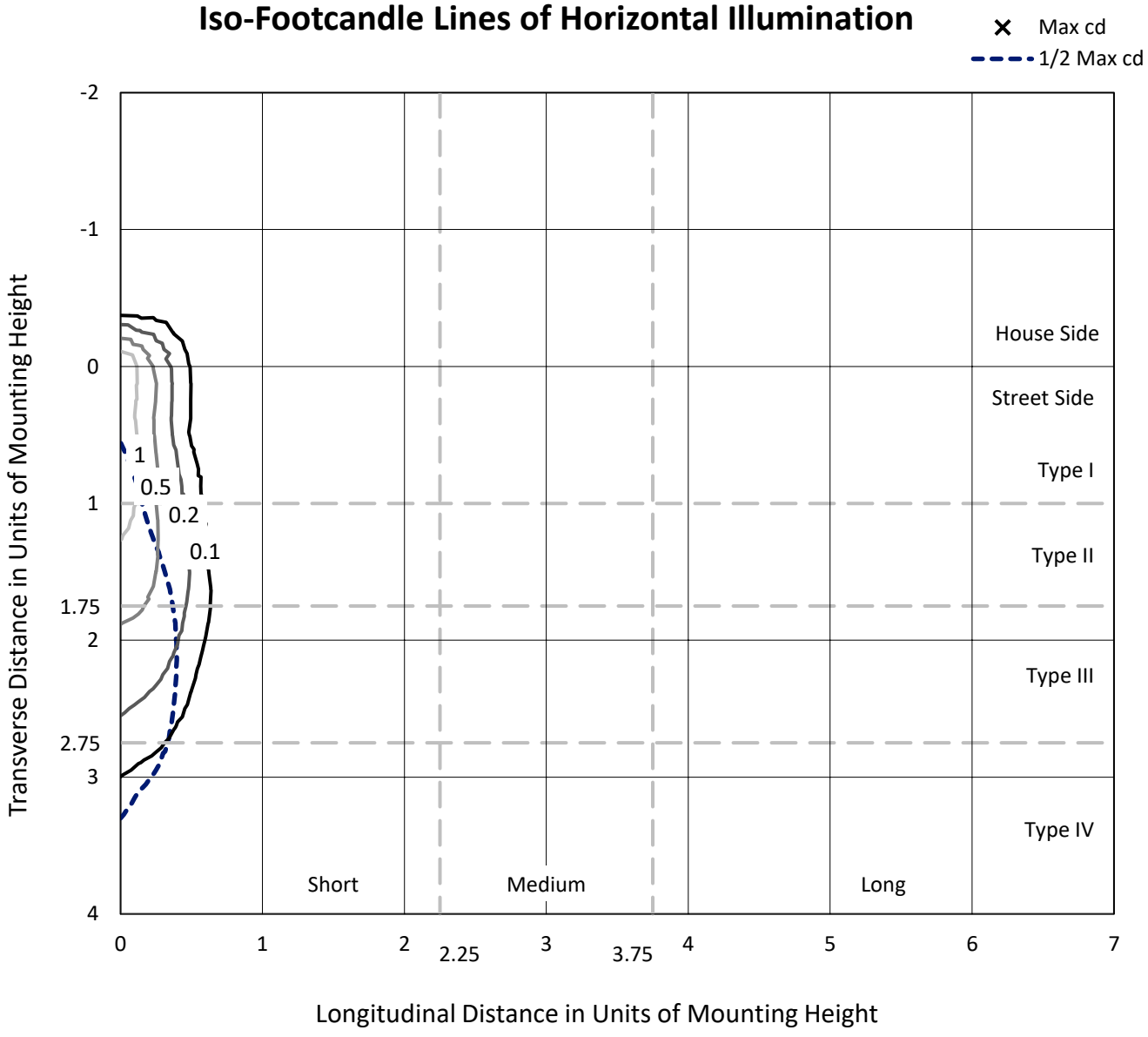
Input Watts (W):	44
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P385832
CATALOG NUMBER: GPC-SA1B-830-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination



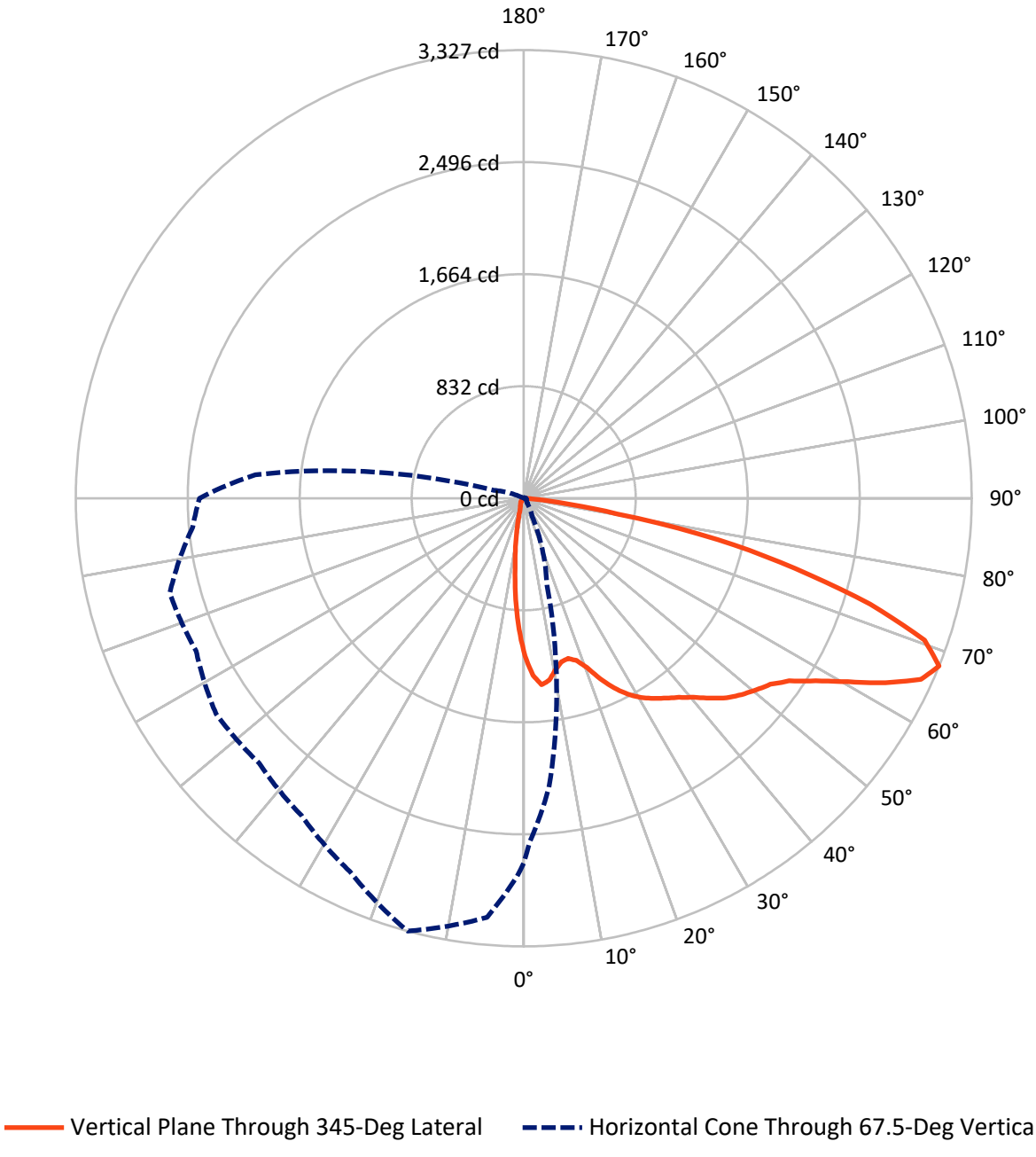
Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
Type IV - Medium - N/A

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P385832
CATALOG NUMBER: GPC-SA1B-830-U-SLR-HSS

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

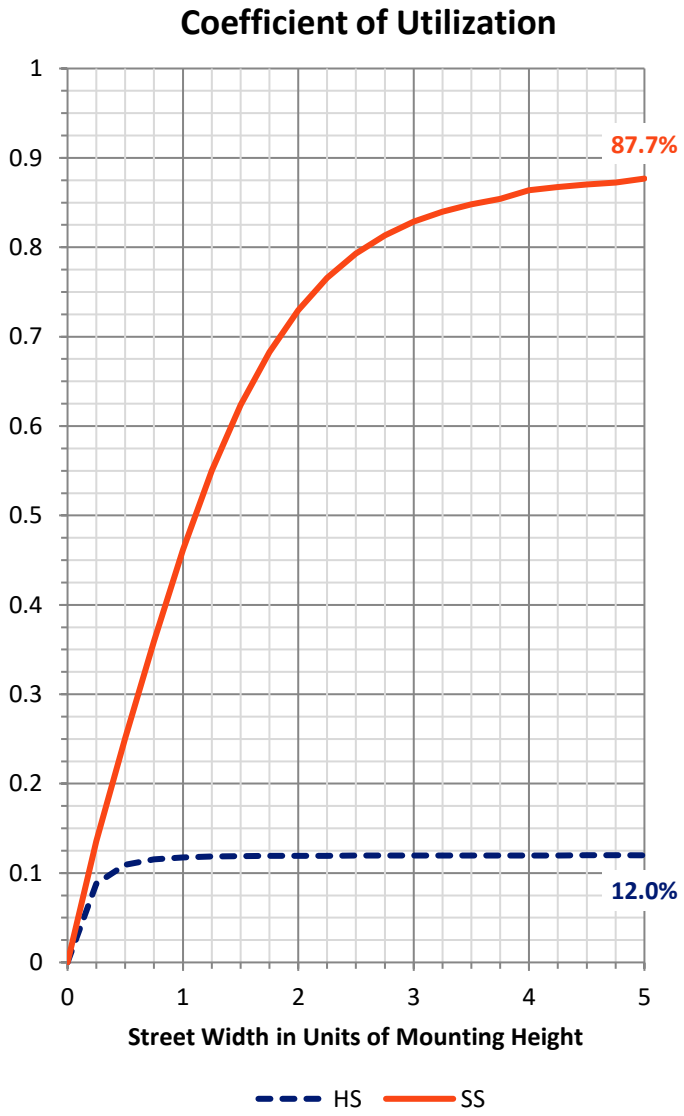
REPORT NUMBER: P385832
CATALOG NUMBER: GPC-SA1B-830-U-SLR-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	435.1	0.0	435.1
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	3159.9	0.0	3159.9
	% Fixture	87.9	0.0	87.9
Total	Lumens	3595.0	0.0	3595.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.9	2.5
10°-20°	178.9	5.0
20°-30°	254.0	7.1
30°-40°	375.2	10.4
40°-50°	541.2	15.1
50°-60°	759.7	21.1
60°-70°	885.6	24.6
70°-80°	452.7	12.6
80°-90°	57.8	1.6
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°	3595.0	100.0
0°-180°	3595.0	100.0



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

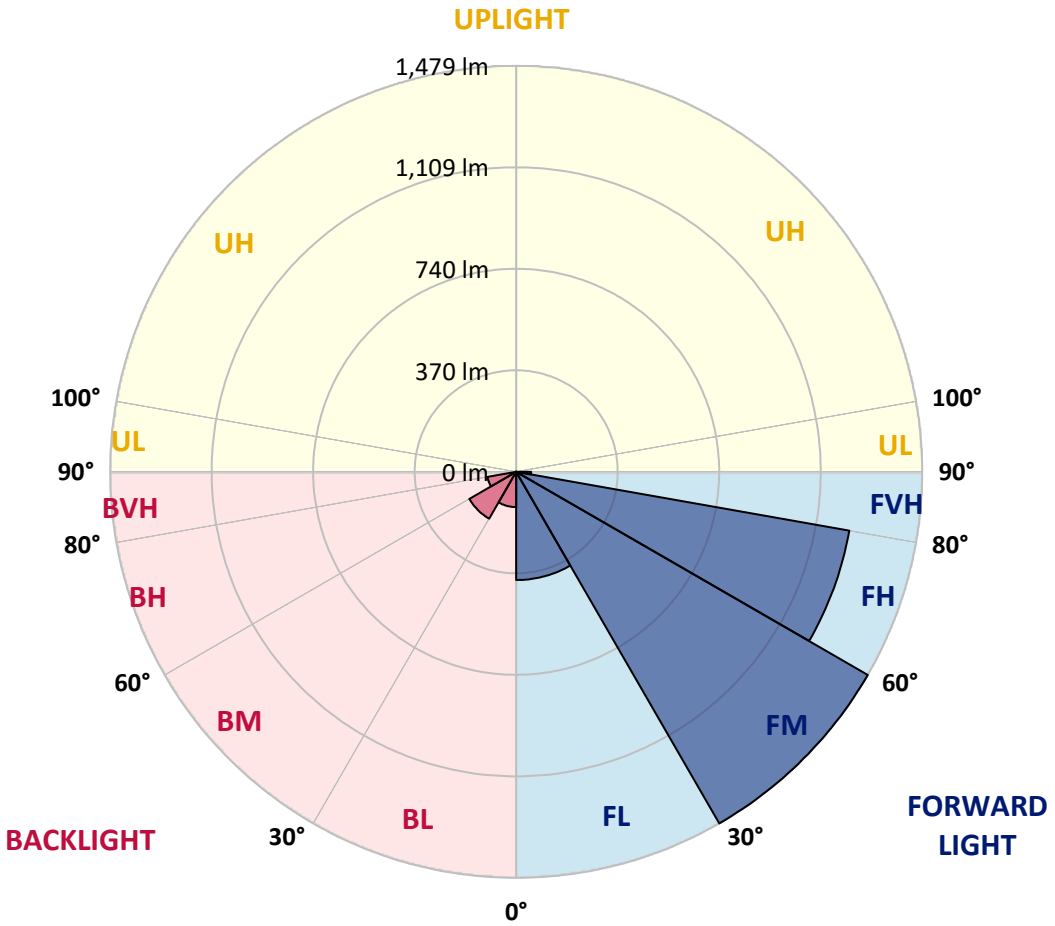
Scaled Data Report

REPORT NUMBER: P385832
CATALOG NUMBER: GPC-SA1B-830-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	394.3	11.0			
FM	(30°-60°)	1479.0	41.1			
FH	(60°-80°)	1232.2	34.3			G1/1800
FVH	(80°-90°)	54.3	1.5			G1/100
BL	(0°-30°)	128.5	3.6	B1/500		
BM	(30°-60°)	197.0	5.5	B0/220		
BH	(60°-80°)	106.1	2.9	B0/110		G0/110
BVH	(80°-90°)	3.5	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-G1
Type IV Medium



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P385832
CATALOG NUMBER: GPC-SA1B-830-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1
2.5°	1282.3	1272.4	1261.5	1225.9	1192.9	1155.1	1124.2	1102.8	1075.9	1040.9	1032.1
5°	1273.1	1262.5	1228.3	1149.1	1079.8	1012.3	947.3	909.1	861.8	813.8	801.8
7.5°	1180.6	1169.5	1120.1	1011.7	918.3	820.9	736.4	684.1	630.7	586.7	563.4
10°	1084.4	1072.3	1016.8	885.1	770.2	682.1	620.1	570.2	519.6	472.6	435.1
12.5°	1018.1	1002.3	942.0	792.8	692.7	632.9	575.0	515.2	446.7	396.3	355.1
15°	990.4	972.3	908.6	757.2	665.2	595.1	519.6	446.2	366.0	308.3	270.5
17.5°	1011.8	988.3	920.0	754.8	630.8	535.3	439.9	353.7	266.7	208.3	181.4
20°	1084.7	1053.9	967.2	754.1	589.1	464.3	343.3	245.9	175.8	141.4	127.2
22.5°	1199.5	1158.8	1035.0	759.6	546.0	389.7	248.0	167.1	132.0	114.1	105.8
25°	1338.1	1291.0	1132.6	778.8	508.2	317.1	180.2	132.0	111.4	98.3	91.3
27.5°	1470.0	1431.6	1255.9	806.6	478.9	258.5	146.3	111.9	95.2	86.5	80.9
30°	1601.6	1553.4	1382.4	839.6	443.7	218.9	128.6	102.0	85.3	76.1	72.6
32.5°	1697.3	1657.3	1481.5	863.5	406.0	193.0	115.0	93.3	79.7	70.3	65.1
35°	1809.9	1764.6	1566.5	868.8	381.8	176.6	103.4	84.0	69.1	60.8	55.2
37.5°	1931.5	1875.1	1664.6	857.2	362.9	168.6	94.7	79.7	64.5	56.0	50.1
40°	2066.1	2002.4	1758.8	840.5	344.4	165.9	88.1	76.5	61.0	52.3	46.2
42.5°	2207.8	2132.6	1840.4	822.9	332.6	156.5	87.4	73.2	58.2	48.9	42.7
45°	2326.8	2250.7	1924.2	817.2	324.3	146.3	90.3	71.0	56.4	46.2	40.2
47.5°	2421.7	2349.6	2010.0	830.1	319.5	136.9	82.3	73.9	55.4	43.8	38.0
50°	2534.9	2453.3	2130.9	868.8	312.5	127.6	74.4	84.6	55.4	42.2	36.1
52.5°	2677.0	2596.2	2265.8	928.7	298.6	114.6	66.9	84.8	55.9	40.2	33.7
55°	2855.6	2797.0	2458.5	994.5	276.2	95.5	57.9	72.9	53.8	36.4	31.5
57.5°	3027.0	2979.1	2634.0	1039.4	246.4	74.6	50.4	58.8	49.2	32.0	28.1
59°	3073.8	3021.5	2698.4	1041.5	224.1	65.1	46.7	48.5	48.2	30.0	26.1
60°	3073.8	3018.3	2717.0	1030.6	208.0	59.8	44.3	43.3	50.2	28.6	24.9
62.5°	3018.1	2940.1	2656.7	956.8	169.6	50.9	38.7	35.8	45.1	25.7	22.0
65°	2902.3	2788.7	2451.3	823.5	151.2	46.7	33.4	29.3	31.3	22.7	19.2
67.5°	*2709.2*	*2555.2*	*2155.1*	*665.2*	*143.9*	*45.5*	*28.8*	*24.9*	*23.7*	*19.4*	*16.9*
70°	2369.0	2198.2	1795.6	523.0	137.6	45.0	24.2	20.9	19.1	16.3	14.3
72.5°	1724.2	1546.1	1274.8	408.9	133.9	46.0	19.4	17.5	15.7	12.8	11.1
75°	986.3	869.6	716.5	270.1	114.1	43.9	15.0	14.6	11.2	9.2	7.7
77.5°	509.6	494.1	429.4	103.7	54.7	19.2	9.9	8.5	6.6	5.6	4.6
80°	219.9	217.5	188.2	30.0	14.5	10.7	5.6	3.6	3.1	2.4	1.9
82.5°	76.0	76.0	66.9	10.0	6.5	5.3	0.7	0.0	0.0	0.0	0.0
85°	15.3	17.2	12.1	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0
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: P385832
CATALOG NUMBER: GPC-SA1B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1
2.5°	1021.4	1000.8	999.4	986.4	970.3	962.9	958.7	966.2	975.4	976.4	990.2
5°	792.8	771.2	780.2	757.2	761.8	757.2	749.7	751.1	755.2	742.4	758.2
7.5°	556.7	540.4	550.8	544.7	552.8	556.1	551.5	544.7	524.6	522.2	536.0
10°	419.6	401.1	390.0	378.4	381.0	386.3	384.6	379.6	366.9	367.5	380.8
12.5°	337.2	316.4	294.5	266.0	259.0	263.0	259.0	256.1	243.9	244.9	256.7
15°	255.8	238.8	215.8	193.0	180.5	181.7	170.8	163.2	155.5	146.3	153.5
17.5°	172.7	162.3	155.5	148.7	133.9	130.5	116.7	101.8	96.1	91.8	94.9
20°	122.3	116.7	113.9	113.6	105.1	100.8	87.4	78.2	75.3	74.4	76.3
22.5°	102.2	98.1	94.2	92.0	87.7	82.8	72.6	68.0	65.9	64.9	66.3
25°	88.9	85.8	81.7	78.0	76.3	71.0	63.7	60.3	58.9	57.9	58.6
27.5°	79.0	76.3	71.5	69.1	67.8	63.2	56.9	54.2	53.0	52.6	52.5
30°	71.2	68.6	64.2	61.5	59.1	55.0	51.3	48.5	47.3	47.0	46.7
32.5°	63.4	61.3	58.4	55.7	53.1	49.4	46.2	43.9	42.1	41.7	41.6
35°	53.5	51.4	49.9	49.7	47.3	43.8	41.4	38.5	37.0	36.4	36.6
37.5°	47.5	44.8	41.4	42.6	41.9	39.3	36.1	33.2	31.7	31.3	31.3
40°	43.8	40.9	37.0	34.9	37.0	36.4	31.3	28.4	26.9	26.7	26.4
42.5°	40.2	37.3	32.9	29.5	30.5	32.0	27.1	24.4	22.8	22.5	22.0
45°	37.6	34.6	29.6	25.7	23.7	26.9	23.2	19.8	18.9	18.2	17.9
47.5°	35.3	32.4	26.7	22.3	18.9	19.4	18.6	16.2	15.2	14.5	14.3
50°	33.2	30.1	24.2	19.1	15.7	14.3	15.0	12.8	11.9	11.2	10.9
52.5°	30.8	27.9	21.5	16.5	13.1	11.2	11.4	10.0	9.2	8.7	8.5
55°	29.0	26.1	19.2	14.5	11.6	9.2	8.2	7.8	7.3	7.0	6.8
57.5°	26.4	23.7	17.0	12.3	9.9	7.5	6.3	6.3	6.1	5.8	5.6
59°	24.9	22.5	15.7	11.1	9.0	6.5	5.6	5.8	5.6	5.3	5.1
60°	23.7	21.5	14.6	10.2	8.5	6.0	5.1	5.4	5.3	4.9	4.8
62.5°	20.9	19.4	12.6	8.5	7.5	4.8	4.3	4.6	4.6	4.4	4.3
65°	18.4	16.7	10.7	7.2	7.0	4.1	3.4	4.1	4.3	3.9	3.6
67.5°	*16.0*	*14.3*	*9.4*	*5.8*	*6.5*	*3.2*	*2.6*	*3.4*	*4.6*	*3.6*	*3.2*
70°	13.6	11.9	7.3	4.6	6.8	2.2	2.0	3.1	5.4	3.9	3.1
72.5°	10.6	9.2	5.1	3.4	7.3	1.5	1.5	2.6	6.1	4.3	2.9
75°	7.3	6.0	3.1	2.0	6.0	1.0	1.0	2.4	5.8	3.9	2.7
77.5°	4.3	3.2	1.0	0.2	3.1	0.0	0.2	1.7	4.1	2.4	1.2
80°	1.5	0.7	0.0	0.0	1.9	0.0	0.0	0.0	0.3	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P385832
CATALOG NUMBER: GPC-SA1B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1
2.5°	993.8	1016.8	1037.4	1068.5	1105.5	1148.1	1184.7	1224.0	1261.0	1276.3	1286.9
5°	761.5	789.9	823.1	868.9	929.9	1005.0	1075.3	1154.9	1240.4	1283.1	1323.3
7.5°	538.4	567.3	608.5	657.2	731.0	820.4	912.4	1022.2	1138.0	1205.6	1272.2
10°	387.1	422.7	461.2	527.8	602.7	687.5	782.2	904.9	1034.0	1108.9	1189.1
12.5°	263.5	304.0	362.3	436.9	524.9	608.0	690.3	807.3	957.2	1031.4	1117.4
15°	158.0	180.5	242.2	328.5	436.5	540.1	630.2	747.5	907.3	998.2	1087.6
17.5°	97.4	107.8	141.4	212.2	325.6	456.6	580.1	727.2	914.4	1025.1	1120.8
20°	77.7	81.7	92.5	125.3	215.8	364.6	523.7	723.1	972.8	1109.1	1211.8
22.5°	67.4	71.4	78.5	91.1	135.7	273.0	470.2	726.9	1056.6	1234.9	1354.8
25°	59.4	62.8	69.7	80.0	99.5	192.3	413.0	743.6	1165.8	1391.1	1518.5
27.5°	53.1	56.0	62.3	71.9	85.3	134.2	348.1	763.8	1295.2	1550.9	1676.6
30°	47.3	49.9	55.5	64.4	74.1	103.2	276.9	777.6	1424.8	1676.6	1789.5
32.5°	42.4	44.3	49.4	56.9	64.4	82.3	210.5	775.4	1521.1	1781.1	1870.7
35°	37.3	39.2	43.6	50.1	56.0	68.0	165.5	734.0	1604.8	1889.6	1963.7
37.5°	31.7	34.1	38.3	44.1	48.2	59.8	133.9	684.1	1689.8	2013.6	2067.4
40°	26.9	29.3	33.0	39.3	41.9	56.7	102.9	623.3	1785.4	2152.2	2181.2
42.5°	22.3	24.5	28.4	33.9	39.5	48.9	76.1	553.9	1877.2	2270.8	2284.9
45°	18.1	20.3	24.4	29.8	42.2	40.5	58.9	479.4	1951.3	2369.4	2374.0
47.5°	14.3	16.3	20.6	28.1	39.3	32.4	42.1	421.0	2013.4	2446.4	2434.3
50°	11.1	12.8	17.2	32.2	34.4	26.7	31.8	401.6	2069.1	2494.0	2462.7
52.5°	8.7	10.2	14.1	30.1	26.7	22.1	26.7	419.8	2145.4	2533.6	2478.7
55°	7.0	8.5	11.1	17.2	18.2	18.7	22.8	436.9	2277.1	2626.2	2573.2
57.5°	5.8	7.3	9.0	12.1	13.8	15.8	20.3	438.7	2432.2	2780.2	2730.1
59°	5.3	6.6	8.2	10.7	12.1	14.5	19.1	428.5	2486.9	2836.2	2811.2
60°	4.9	6.3	7.7	9.9	11.2	13.6	18.4	418.8	2489.3	2834.2	2845.7
62.5°	4.3	5.6	6.8	8.3	9.5	11.6	16.5	382.9	2388.5	2741.3	2825.0
65°	3.7	4.9	6.1	7.2	8.2	10.4	15.0	317.3	2216.3	2591.6	2682.8
67.5°	*3.4*	*4.3*	*5.6*	*6.3*	*7.3*	*9.2*	*13.3*	*226.2*	*2001.2*	*2408.6*	*2467.6*
70°	3.1	4.1	5.1	5.8	6.6	8.0	11.4	129.9	1689.8	2140.5	2182.5
72.5°	2.9	3.9	4.6	5.4	6.0	7.2	10.4	61.1	1237.3	1714.7	1824.6
75°	2.6	3.6	4.3	5.1	5.6	6.5	8.9	29.3	822.9	1240.9	1365.7
77.5°	1.5	2.9	3.9	4.6	4.9	5.6	7.3	16.9	525.2	858.9	1011.7
80°	0.0	1.0	2.9	3.9	4.3	4.8	5.6	13.3	281.0	490.7	588.9
82.5°	0.0	0.0	2.0	3.1	2.9	3.2	4.3	8.3	126.7	320.7	361.4
85°	0.0	0.0	0.7	2.4	2.0	1.5	2.9	2.9	27.8	162.3	202.5
87.5°	0.0	0.0	0.0	0.2	1.0	0.7	1.2	0.3	0.2	12.1	49.0
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: P385832
CATALOG NUMBER: GPC-SA1B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	*1171.1*	1171.1	1171.1	1171.1
2.5°	1323.8	1336.4	1357.7	1367.8	1362.8	1341.9	*1316.9*	1291.3	1276.3	1282.3
5°	1405.2	1470.1	1507.6	1520.0	1499.3	1452.2	*1390.8*	1309.7	1280.9	1273.1
7.5°	1405.2	1527.4	1604.7	1618.3	1572.0	1479.8	*1364.5*	1238.0	1195.9	1180.6
10°	1355.9	1522.1	1629.9	1651.5	1586.8	1449.0	*1294.5*	1150.1	1100.2	1084.4
12.5°	1300.2	1479.2	1592.8	1622.6	1569.4	1418.4	*1246.0*	1090.7	1031.9	1018.1
15°	1265.9	1426.4	1520.4	1542.0	1519.5	1400.5	*1234.4*	1072.8	1003.6	990.4
17.5°	1278.2	1385.5	1419.4	1432.0	1447.1	1394.2	*1265.9*	1112.0	1024.4	1011.8
20°	1324.3	1342.4	1324.9	1340.7	1381.6	1400.3	*1341.0*	1206.7	1101.6	1084.7
22.5°	1402.7	1320.1	1270.9	1277.2	1326.9	1420.6	*1455.8*	1341.9	1220.6	1199.5
25°	1494.0	1338.1	1240.9	1235.3	1286.4	1447.3	*1560.7*	1489.0	1361.5	1338.1
27.5°	1608.8	1378.7	1234.8	1229.1	1272.2	1472.3	*1647.9*	1634.5	1509.8	1470.0
30°	1697.3	1418.5	1253.0	1240.0	1286.4	1489.7	*1717.9*	1758.0	1628.0	1601.6
32.5°	1760.9	1465.5	1282.6	1263.9	1326.2	1519.7	*1771.9*	1871.0	1737.4	1697.3
35°	1809.2	1516.6	1330.5	1299.7	1381.1	1565.2	*1822.5*	1991.5	1853.7	1809.9
37.5°	1854.5	1588.3	1405.2	1368.5	1467.1	1638.4	*1876.0*	2128.0	1983.8	1931.5
40°	1917.7	1669.6	1520.5	1487.8	1611.7	1738.2	*1942.7*	2270.4	2131.8	2066.1
42.5°	1980.9	1756.8	1638.6	1647.4	1792.0	1859.5	*2028.9*	2421.0	2277.9	2207.8
45°	2038.6	1846.7	1806.7	1847.5	1959.4	1992.5	*2114.6*	2508.0	2394.6	2326.8
47.5°	2090.1	1959.1	1973.7	2082.6	2149.8	2112.9	*2178.6*	2583.1	2481.4	2421.7
50°	2149.8	2104.5	2194.0	2347.9	2369.0	2221.9	*2236.9*	2672.0	2583.0	2534.9
52.5°	2215.2	2257.8	2437.8	2573.6	2566.8	2340.3	*2295.5*	2771.7	2722.1	2677.0
55°	2289.5	2381.6	2652.6	2784.8	2779.0	2472.4	*2392.5*	2894.8	2896.5	2855.6
57.5°	2399.7	2488.3	2798.4	2955.6	2965.3	2625.0	*2557.1*	3032.7	3054.2	3027.0
59°	2478.7	2557.4	2856.1	3027.0	3066.5	2743.0	*2677.3*	3112.8	3098.7	3073.8
60°	2537.3	2601.3	2884.7	3064.3	3125.2	2823.1	*2766.0*	3159.8	3103.9	3073.8
62.5°	2682.2	2697.1	2936.3	3106.5	3192.8	3000.9	*3015.7*	3239.8	3067.3	3018.1
65°	2749.9	2757.5	2935.7	3030.9	3127.4	3139.4	*3242.2*	3242.2	2977.9	2902.3
67.5°	*2721.6*	*2684.6*	*2790.0*	*2780.2*	*2876.6*	*3057.1*	*3327.4*	*3123.3*	*2806.9*	*2709.2*
70°	2491.7	2349.5	2302.6	2306.9	2380.6	2659.1	*3158.8*	2773.5	2483.3	2369.0
72.5°	2073.2	1732.1	1616.4	1748.4	1767.7	2043.6	*2691.9*	2088.7	1831.4	1724.2
75°	1667.5	1221.0	1032.9	1172.3	1205.0	1495.5	*2082.4*	1300.8	1069.7	986.3
77.5°	1198.0	876.4	741.2	731.5	773.7	948.5	*1477.6*	654.7	546.0	509.6
80°	680.6	576.8	621.1	586.0	607.3	593.0	*702.0*	287.1	235.2	219.9
82.5°	410.8	341.0	369.2	307.4	389.0	338.8	*270.5*	92.0	79.9	76.0
85°	267.2	186.3	97.1	65.1	134.0	216.5	*60.5*	25.0	19.2	15.3
87.5°	92.1	47.5	4.8	2.0	14.3	40.4	*2.2*	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: SP1-2408-195-9

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

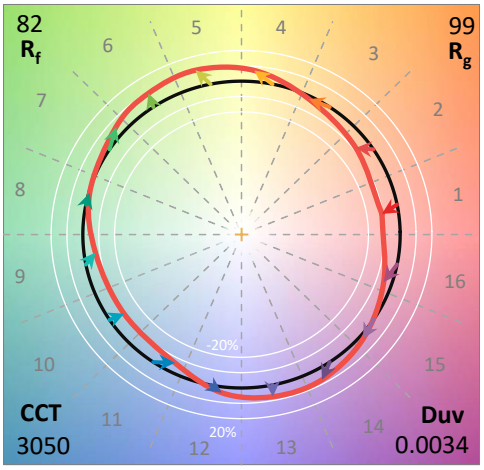
Test Information

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	CRI (Ra):	81.0		
CIE u':	0.2476	R1:	79.6	R9:	7.1
CIE v':	0.5251	R2:	85.6	R10:	67.0
Duv:	0.0034	R3:	92.0	R11:	82.7
CIE x:	0.4383	R4:	82.6	R12:	63.2
CIE y:	0.4131	R5:	78.9	R13:	80.3
CIE z:	0.1487	R6:	81.7	R14:	95.0
Peak Wavelength (nm):	603	R7:	85.2	R15:	71.7
Dominant Wavelength (nm):	581	R8:	62.0		
Purity:	55.55201				

Rf:	81.5
Rg:	99.2



Test Conditions

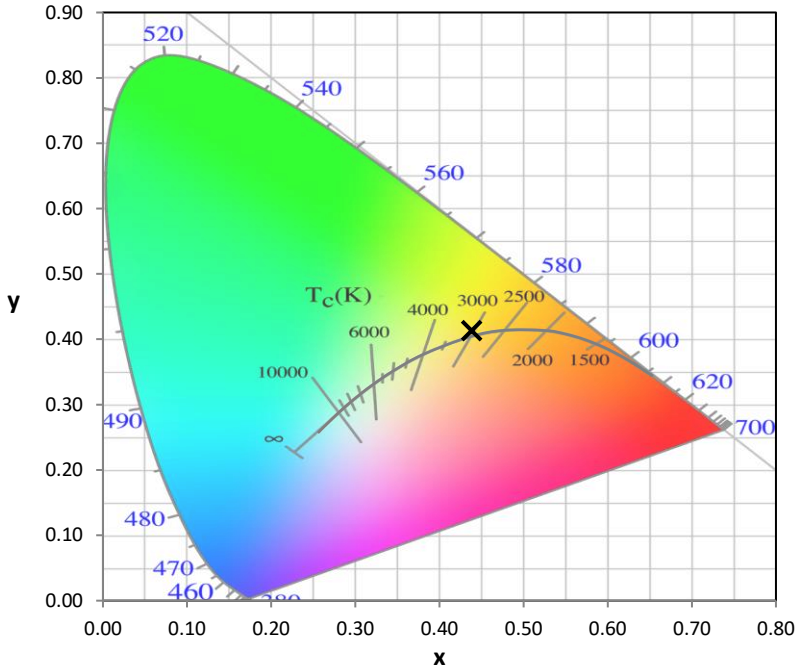
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

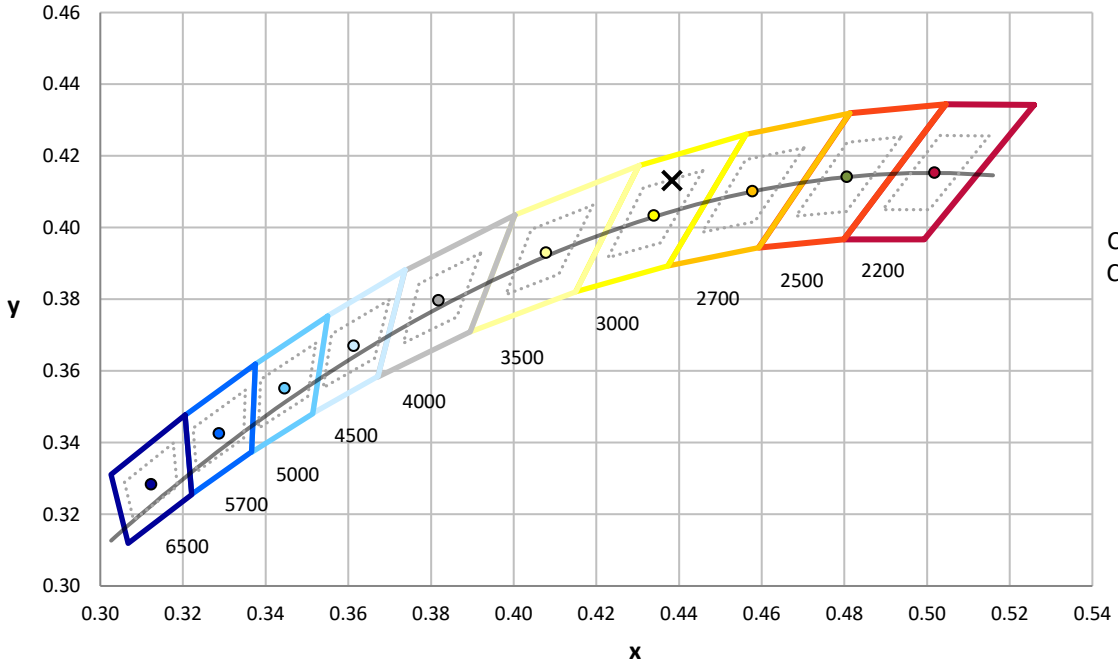
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

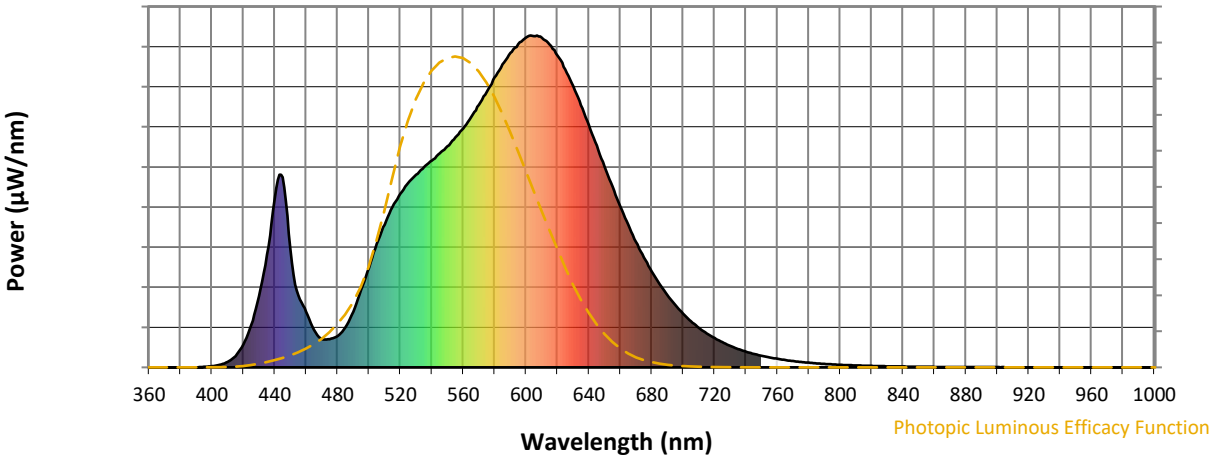


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

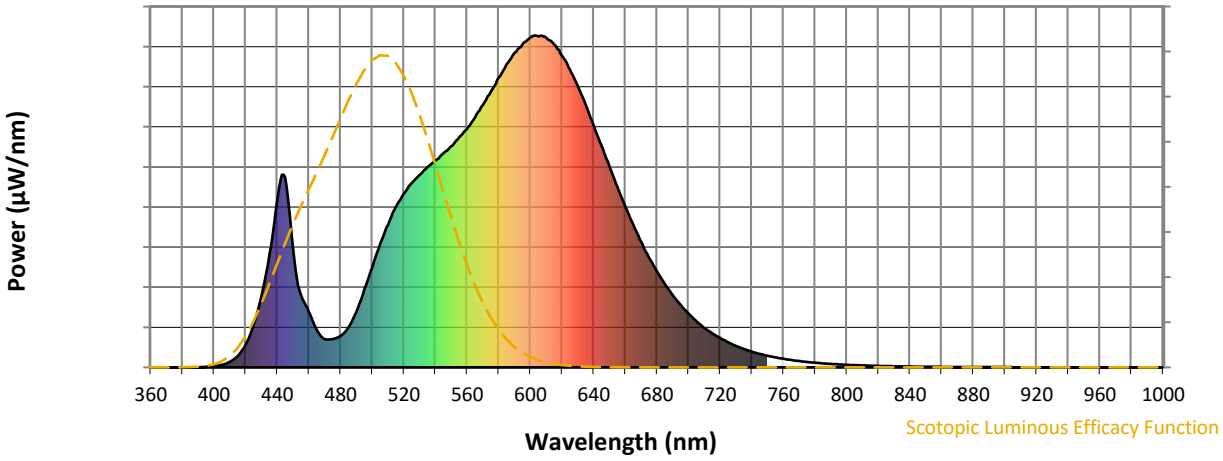


Photopic Lumens: NR

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

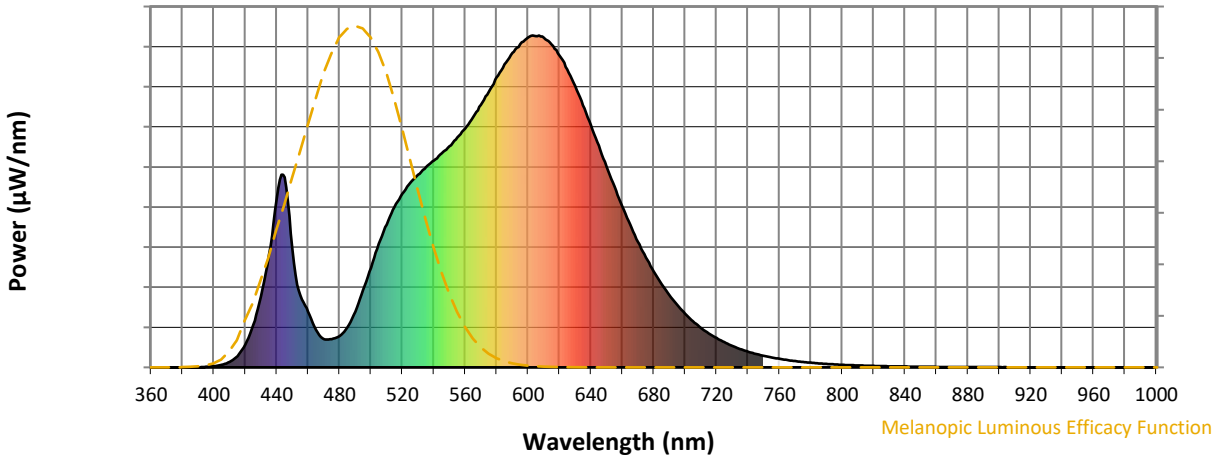


Scotopic Lumens: NR **S/P: 1.27**

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			

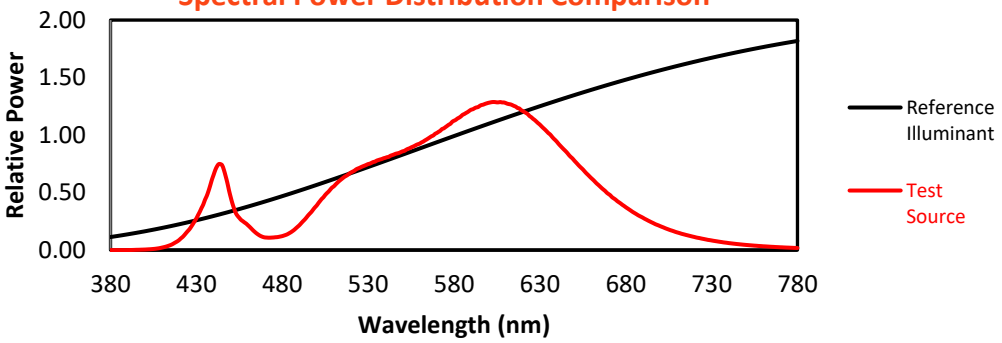
REPORT NUMBER: SP1-2408-195-9

TM-30-18

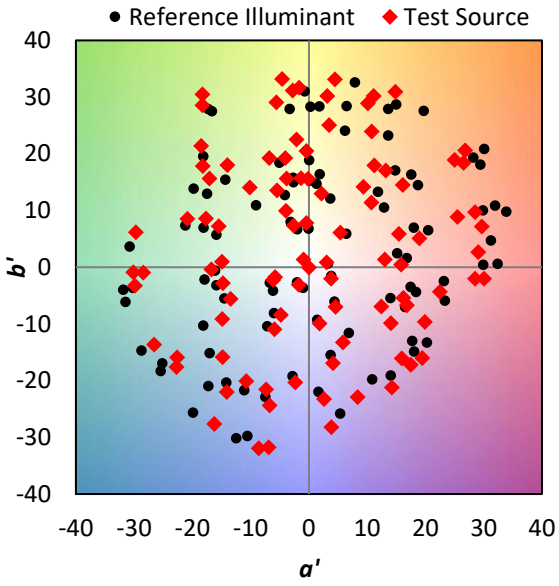
Summary

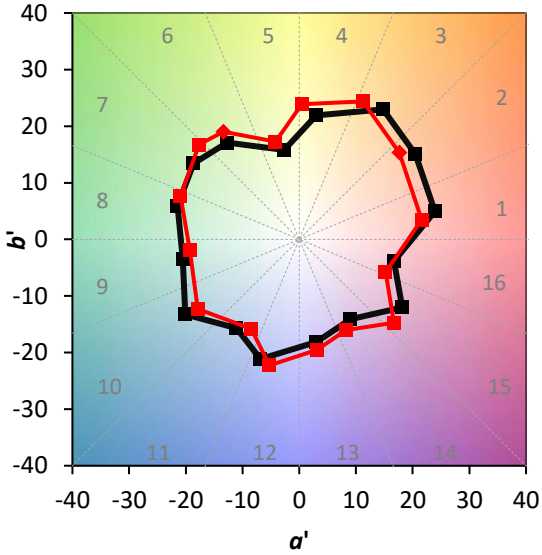
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

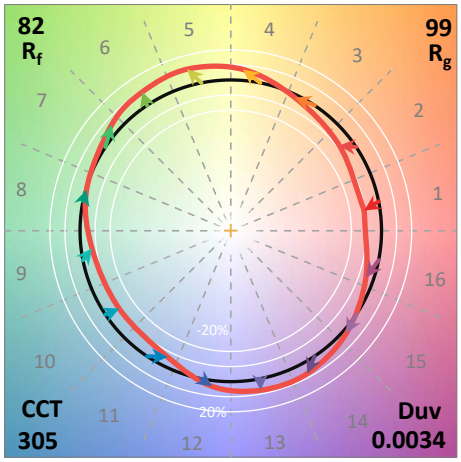
Spectral Power Distribution Comparison

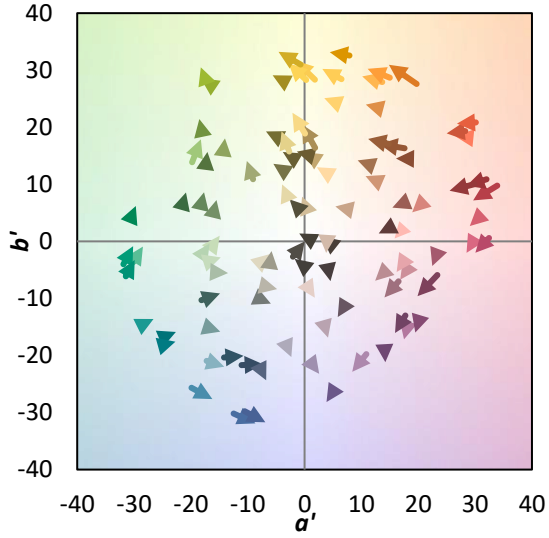


Color Vector Graphics







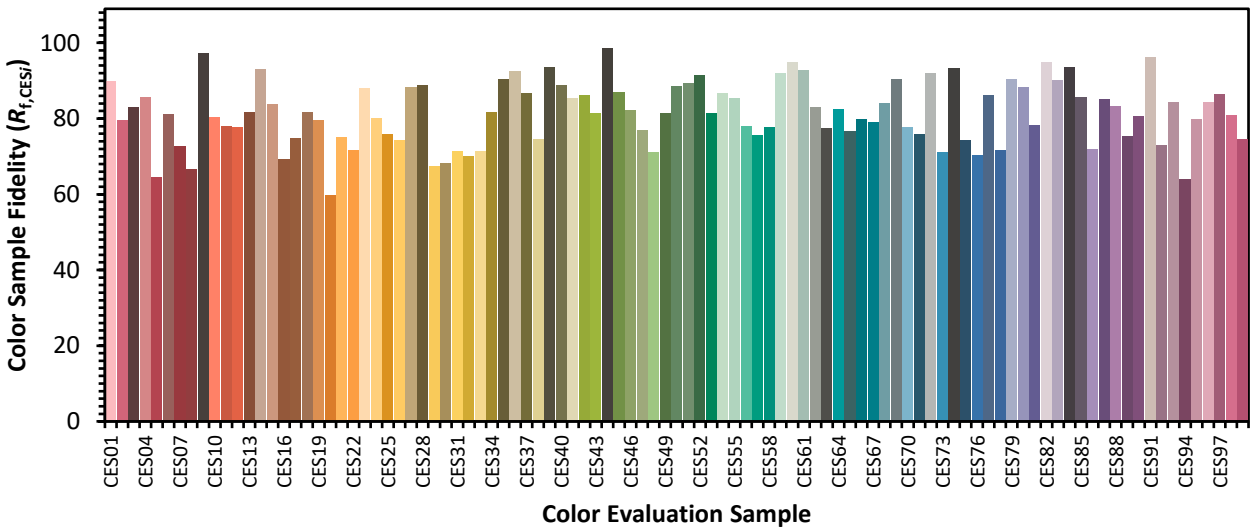


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

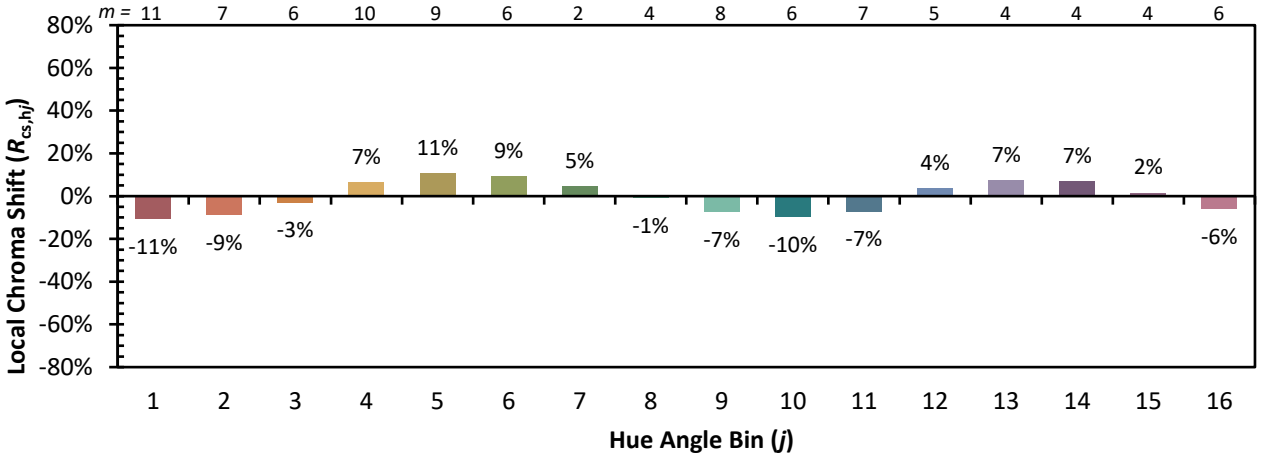
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 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
CES25 = 72	CES50 = 89	CES75 = 74	

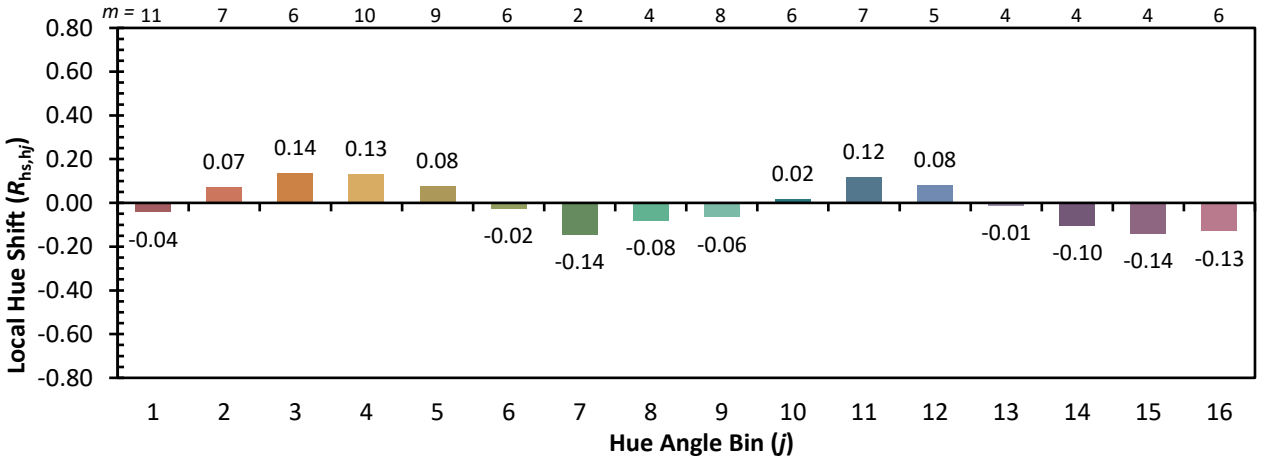


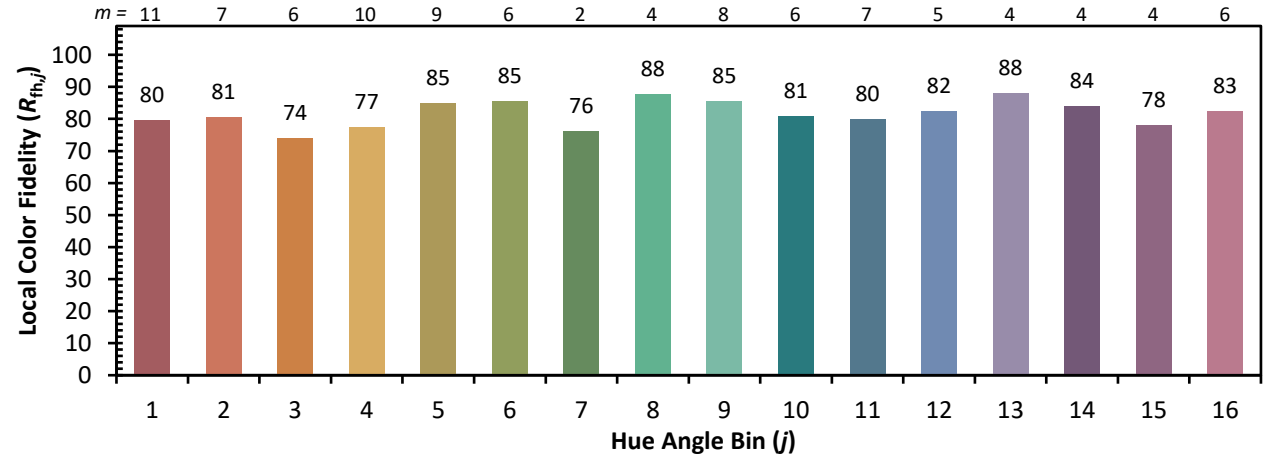
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



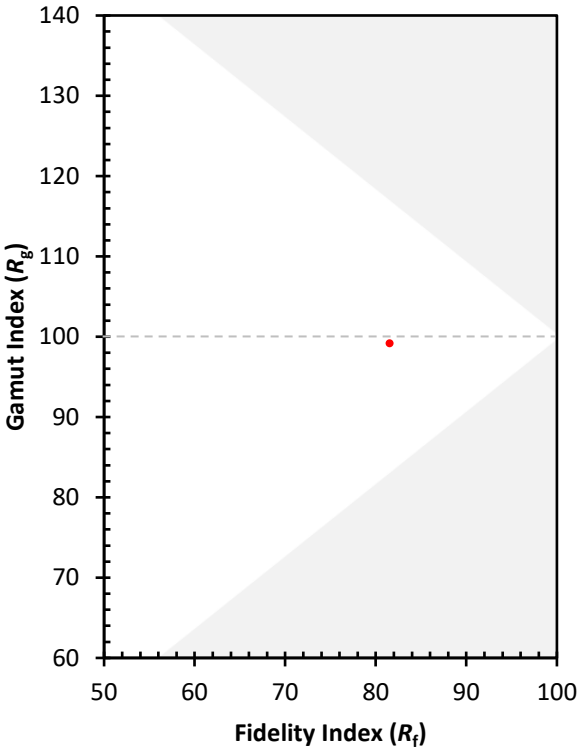


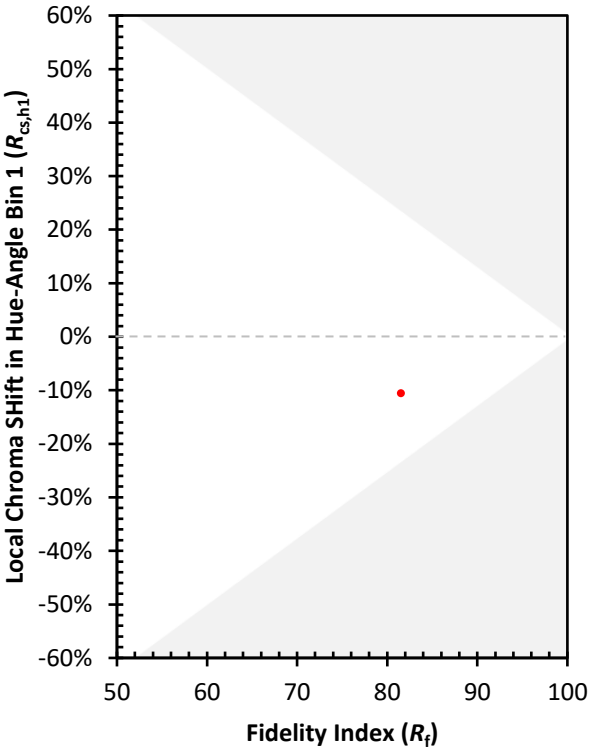


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)