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

Scaled data based on original data using

LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P643431

Luminaire Tested: GWS-SA6E-830-U-SLL-W-HSS

Issue Date: 1/10/2023

Report Generated By 670246102 / DESKTOP-G35701P

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P643431
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-40)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA6E-830-U-SLL-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	21530.8 lumens
Efficiency:	N/A
Efficacy:	66.5 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B2 - U0 - G4

Input Watts (W):	323.8
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	0
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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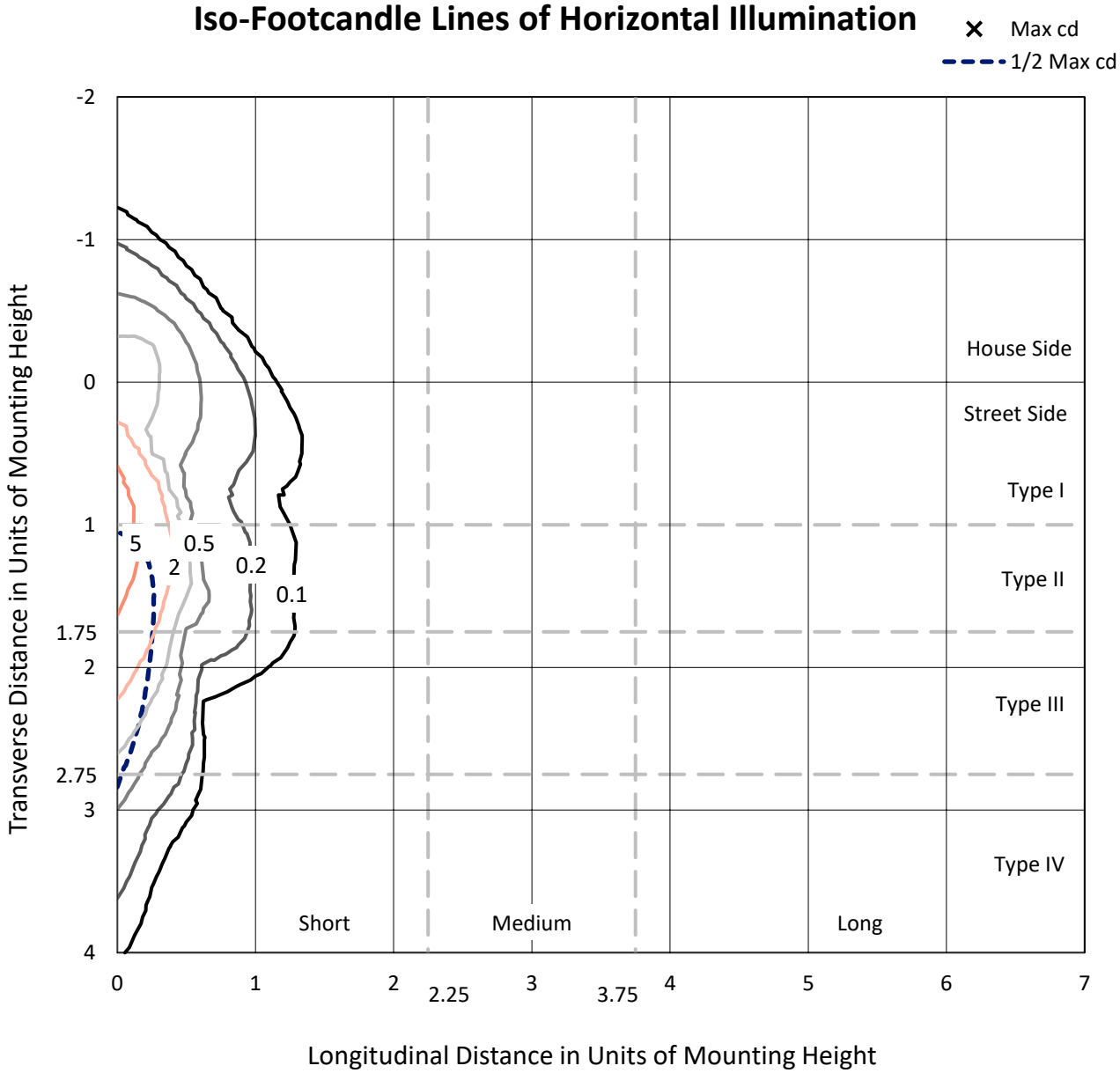
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
Type III - Short - N/A

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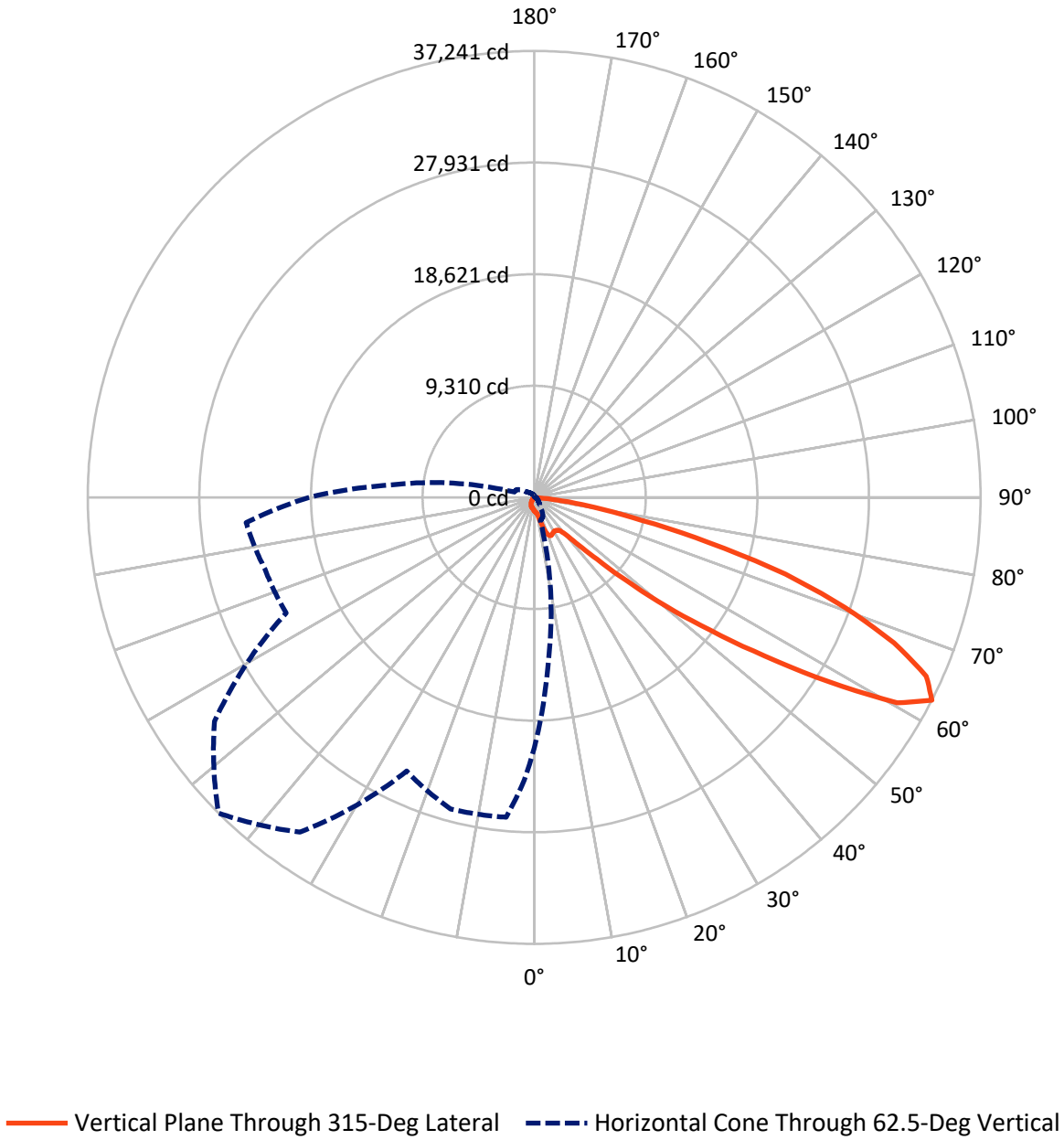
Luminous Intensity Polar Plot



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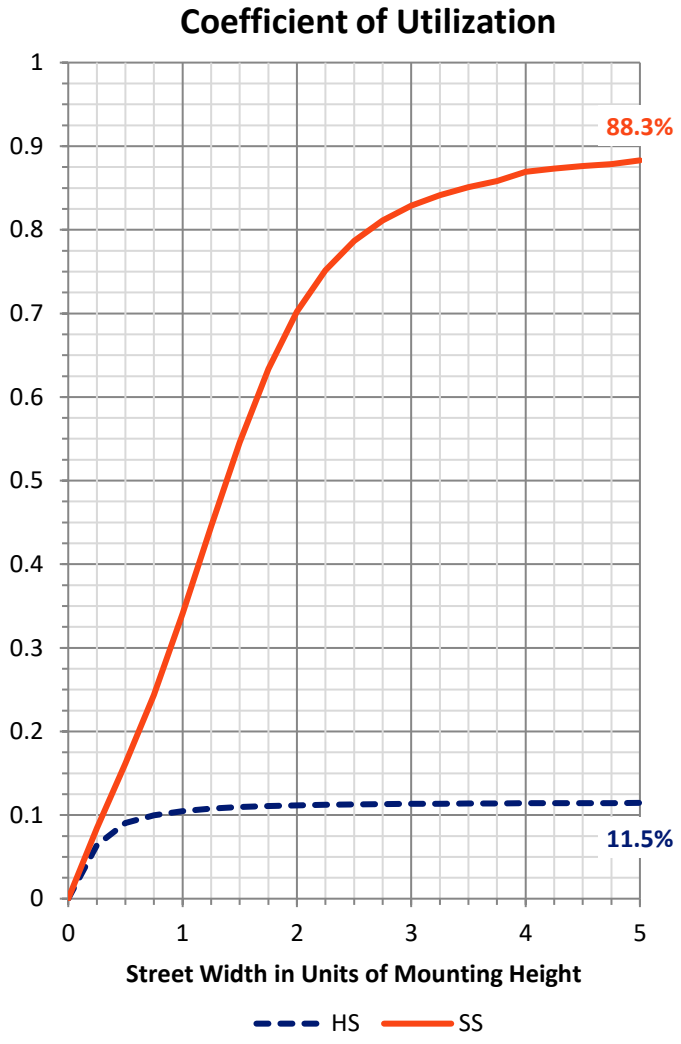
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2501.6	0.0	2501.6
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	19029.2	0.0	19029.2
	% Fixture	88.4	0.0	88.4
Total	Lumens	21530.8	0.0	21530.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.4	0.4
10°-20°	330.5	1.5
20°-30°	746.6	3.5
30°-40°	1286.2	6.0
40°-50°	2426.3	11.3
50°-60°	5417.3	25.2
60°-70°	7245.6	33.7
70°-80°	3633.5	16.9
80°-90°	348.3	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°	21530.8	100.0
0°-180°	21530.8	100.0



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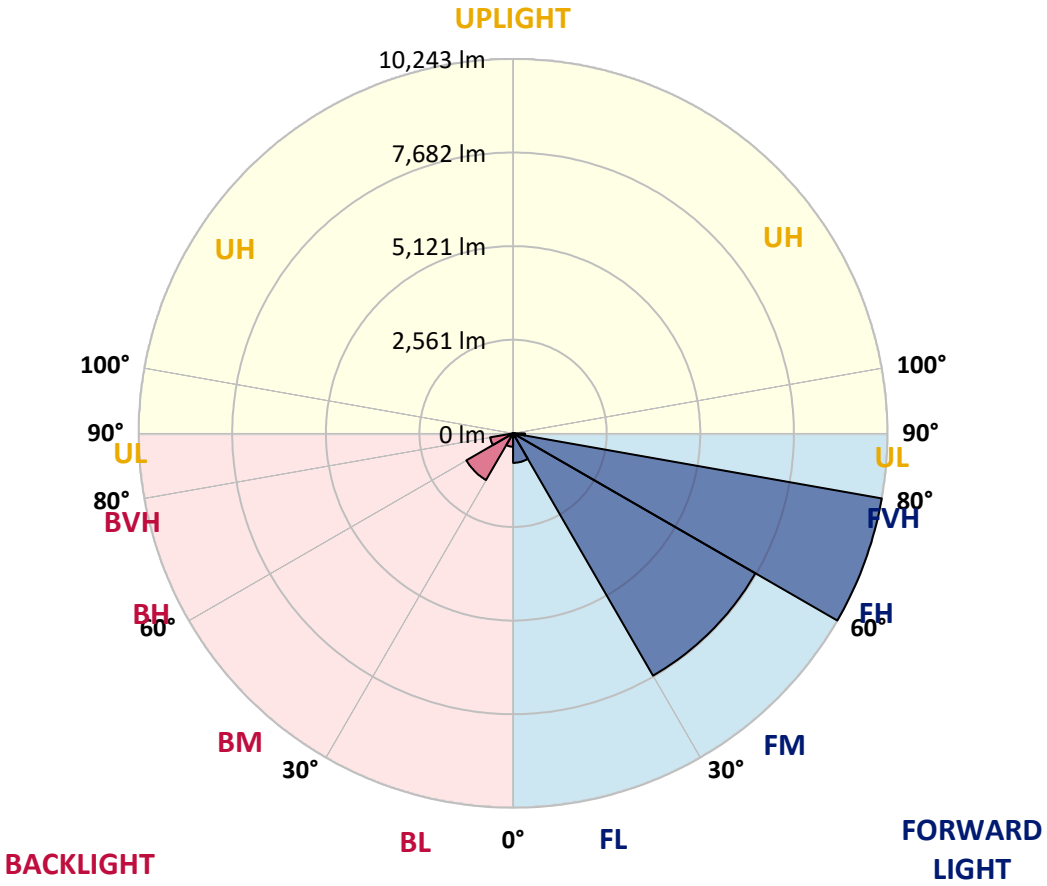
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	806.4	3.7			
FM	(30°-60°)	7654.8	35.6			
FH	(60°-80°)	10242.9	47.6			G4/12000
FVH	(80°-90°)	325.1	1.5			G3/500
BL	(0°-30°)	367.2	1.7	B1/500		
BM	(30°-60°)	1475.1	6.9	B2/2500		
BH	(60°-80°)	636.1	3.0	B2/1000		G2/1000
BVH	(80°-90°)	23.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1116.6	1116.6	1116.6	1116.6	1116.6	1116.6	1116.6	1116.6	1116.6	1116.6	1116.6
2.5°	1103.9	1101.3	1096.2	1080.9	1068.2	1060.5	1045.2	1045.2	1042.7	1037.6	1027.4
5°	1068.2	1058.0	1047.8	1019.7	989.2	971.3	950.9	948.4	948.4	943.3	940.7
7.5°	1012.1	1001.9	989.2	943.3	915.2	897.4	879.5	877.0	869.3	869.3	869.3
10°	981.5	966.2	945.8	894.8	866.8	851.5	838.7	831.1	826.0	818.3	815.8
12.5°	1047.8	1019.7	976.4	884.6	846.4	826.0	810.7	805.6	790.3	780.1	772.5
15°	1254.3	1185.5	1098.8	907.6	838.7	808.1	787.8	777.6	764.8	747.0	734.2
17.5°	1593.3	1493.9	1348.6	981.5	831.1	792.8	767.4	749.5	731.7	711.3	696.0
20°	2062.4	1914.6	1741.2	1116.6	831.1	775.0	744.4	721.5	696.0	673.0	655.2
22.5°	2659.0	2511.1	2215.4	1346.1	841.3	752.1	716.4	685.8	655.2	634.8	614.4
25°	3326.9	3117.9	2842.5	1623.9	869.3	721.5	683.2	652.6	624.6	599.1	576.2
27.5°	4071.3	3844.4	3477.3	2019.1	930.5	690.9	647.5	619.5	594.0	568.5	537.9
30°	4757.1	4622.0	4247.2	2493.3	1029.9	670.5	619.5	594.0	568.5	535.4	507.3
32.5°	5580.5	5340.9	5032.4	3033.7	1162.5	650.1	596.5	560.9	540.5	509.9	479.3
35°	6409.1	6205.1	5799.8	3699.1	1310.4	629.7	568.5	535.4	517.5	481.8	448.7
37.5°	7263.1	7217.2	6817.0	4435.9	1455.7	606.7	535.4	515.0	497.1	456.3	418.1
40°	8104.4	8020.3	7650.6	5277.2	1544.9	581.3	507.3	494.6	474.2	428.3	385.0
42.5°	8910.0	8846.3	8486.8	6082.8	1532.2	558.3	479.3	464.0	448.7	402.8	349.3
45°	9899.2	9794.6	9340.8	6679.3	1402.1	583.8	451.2	425.7	423.2	379.9	313.6
47.5°	11750.0	11405.8	10635.9	7138.2	1272.1	650.1	420.6	390.1	407.9	356.9	277.9
50°	14342.7	13937.3	12823.3	7495.1	1269.6	736.8	415.5	356.9	395.2	339.1	247.3
52.5°	16948.1	16234.3	14880.6	7686.3	1363.9	800.5	461.4	323.8	379.9	321.2	224.3
55°	19443.9	17962.8	15742.3	7054.1	1437.8	869.3	545.6	305.9	351.8	300.8	211.6
57.5°	21822.5	19352.2	16117.0	5580.5	1685.1	897.4	596.5	313.6	311.0	275.3	201.4
60°	22148.8	19285.9	15359.9	3245.3	1858.5	848.9	576.2	349.3	272.8	244.7	183.6
62.5°	*20914.9*	*18003.6*	*13634.0*	*2024.2*	*1725.9*	*831.1*	*512.4*	*397.7*	*247.3*	*216.7*	*160.6*
65°	19041.1	15992.1	11367.6	1305.3	1307.8	922.9	448.7	390.1	232.0	191.2	137.7
67.5°	16111.9	13384.1	8955.9	874.4	739.3	787.8	392.6	267.7	226.9	163.2	107.1
70°	11760.2	9526.9	5830.4	583.8	441.0	629.7	328.9	191.2	214.1	135.1	76.5
72.5°	8596.4	6401.4	3255.5	382.4	249.8	367.1	242.2	137.7	165.7	99.4	53.5
75°	6187.3	4405.3	1858.5	244.7	165.7	201.4	158.1	94.3	107.1	79.0	48.4
77.5°	2977.6	2146.6	843.8	135.1	112.2	102.0	84.1	58.6	66.3	71.4	43.3
80°	112.2	84.1	63.7	66.3	71.4	45.9	38.2	30.6	38.2	48.4	22.9
82.5°	0.0	0.0	0.0	7.6	10.2	12.7	15.3	12.7	15.3	17.8	2.5
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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1116.6	1116.6	1116.6	1116.6	1116.6	1116.6	1116.6	1116.6	1116.6	1116.6	1116.6
2.5°	1035.0	1029.9	1035.0	1040.1	1045.2	1050.3	1042.7	1047.8	1052.9	1040.1	1045.2
5°	953.5	950.9	966.2	973.9	984.1	989.2	984.1	984.1	981.5	966.2	966.2
7.5°	882.1	884.6	897.4	915.2	928.0	935.6	930.5	928.0	920.3	897.4	897.4
10°	828.5	828.5	848.9	864.2	882.1	889.7	884.6	877.0	869.3	846.4	843.8
12.5°	785.2	785.2	800.5	826.0	846.4	856.6	854.0	843.8	831.1	808.1	805.6
15°	744.4	741.9	764.8	787.8	815.8	828.5	823.4	815.8	792.8	772.5	767.4
17.5°	703.6	701.1	721.5	752.1	782.7	800.5	797.9	780.1	759.7	734.2	729.1
20°	662.8	657.7	683.2	713.8	744.4	762.3	757.2	741.9	716.4	690.9	685.8
22.5°	622.0	619.5	637.3	662.8	690.9	706.2	703.6	690.9	665.4	642.4	642.4
25°	576.2	576.2	588.9	606.7	627.1	634.8	637.3	632.2	616.9	604.2	604.2
27.5°	537.9	530.3	535.4	540.5	550.7	563.4	563.4	568.5	571.1	566.0	568.5
30°	507.3	494.6	486.9	476.7	471.6	476.7	481.8	499.7	517.5	527.7	532.8
32.5°	471.6	456.3	435.9	407.9	390.1	385.0	400.2	433.4	466.5	489.5	502.2
35°	435.9	415.5	377.3	336.5	313.6	305.9	323.8	362.0	410.4	451.2	469.1
37.5°	400.2	372.2	318.7	270.2	244.7	239.6	257.5	298.3	354.4	410.4	433.4
40°	359.5	326.3	262.6	211.6	191.2	186.1	201.4	242.2	300.8	364.6	400.2
42.5°	318.7	277.9	211.6	168.3	147.9	147.9	168.3	198.8	252.4	321.2	364.6
45°	277.9	234.5	173.4	135.1	122.4	124.9	137.7	168.3	211.6	283.0	323.8
47.5°	239.6	201.4	142.8	112.2	102.0	104.5	119.8	145.3	181.0	244.7	288.1
50°	206.5	170.8	124.9	94.3	86.7	91.8	107.1	130.0	160.6	216.7	252.4
52.5°	186.1	153.0	114.7	81.6	76.5	81.6	96.9	117.3	145.3	191.2	226.9
55°	175.9	150.4	114.7	73.9	66.3	71.4	86.7	107.1	130.0	173.4	203.9
57.5°	173.4	155.5	122.4	66.3	56.1	61.2	76.5	96.9	119.8	158.1	183.6
60°	163.2	147.9	119.8	53.5	43.3	51.0	63.7	84.1	109.6	147.9	170.8
62.5°	*142.8*	*130.0*	*104.5*	*43.3*	*33.1*	*38.2*	*53.5*	*73.9*	*99.4*	*135.1*	*160.6*
65°	117.3	104.5	81.6	28.0	20.4	25.5	40.8	63.7	86.7	122.4	145.3
67.5°	86.7	73.9	56.1	17.8	10.2	17.8	33.1	53.5	79.0	109.6	132.6
70°	53.5	43.3	30.6	10.2	7.6	15.3	30.6	51.0	71.4	102.0	124.9
72.5°	30.6	20.4	12.7	5.1	7.6	15.3	30.6	51.0	68.8	96.9	117.3
75°	22.9	12.7	5.1	2.5	5.1	12.7	28.0	45.9	66.3	91.8	112.2
77.5°	15.3	7.6	2.5	0.0	2.5	10.2	25.5	43.3	61.2	86.7	107.1
80°	2.5	0.0	0.0	0.0	0.0	7.6	22.9	38.2	56.1	76.5	94.3
82.5°	0.0	0.0	0.0	0.0	0.0	2.5	17.8	33.1	48.4	63.7	76.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	10.2	25.5	38.2	48.4	53.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.7	25.5	30.6	35.7
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°	1116.6	1116.6	1116.6	1116.6	1116.6	1116.6	1116.6	1116.6	1116.6	1116.6	1116.6
2.5°	1042.7	1058.0	1058.0	1068.2	1080.9	1103.9	1116.6	1134.5	1147.2	1160.0	1165.1
5°	963.7	966.2	968.8	973.9	989.2	1014.6	1037.6	1065.6	1098.8	1124.3	1139.6
7.5°	897.4	897.4	897.4	905.0	920.3	938.2	961.1	999.3	1037.6	1068.2	1093.7
10°	841.3	848.9	851.5	864.2	882.1	905.0	930.5	963.7	1007.0	1047.8	1093.7
12.5°	805.6	813.2	826.0	838.7	856.6	882.1	910.1	953.5	1042.7	1126.8	1223.7
15°	772.5	782.7	797.9	815.8	836.2	864.2	894.8	984.1	1193.1	1351.2	1504.1
17.5°	736.8	752.1	772.5	790.3	815.8	846.4	884.6	1058.0	1468.4	1731.0	1991.0
20°	690.9	711.3	734.2	762.3	792.8	828.5	884.6	1210.9	1866.1	2243.4	2587.6
22.5°	647.5	667.9	696.0	731.7	767.4	803.0	897.4	1442.9	2378.5	2855.3	3291.2
25°	611.8	637.3	665.4	696.0	736.8	777.6	928.0	1769.3	2995.5	3609.9	3918.4
27.5°	578.7	609.3	637.3	662.8	698.5	744.4	996.8	2205.2	3724.6	4349.2	4591.4
30°	545.6	581.3	609.3	634.8	670.5	718.9	1101.3	2761.0	4535.3	5142.1	5167.5
32.5°	517.5	550.7	583.8	609.3	642.4	698.5	1246.6	3411.0	5366.4	5952.7	5713.1
35°	486.9	525.2	555.8	583.8	619.5	680.7	1414.9	4112.1	6205.1	6697.2	6256.1
37.5°	456.3	499.7	537.9	558.3	594.0	662.8	1537.3	4843.8	7061.7	7423.7	6732.9
40°	428.3	476.7	520.1	540.5	558.3	639.9	1555.1	5593.3	7931.0	8140.1	7181.5
42.5°	397.7	451.2	489.5	517.5	532.8	624.6	1448.0	6225.5	8660.2	8853.9	7767.9
45°	364.6	428.3	458.9	479.3	509.9	634.8	1310.4	6715.0	9493.8	9827.8	8734.1
47.5°	331.4	402.8	428.3	443.6	484.4	696.0	1259.4	7041.3	10867.9	11561.3	10363.1
50°	300.8	379.9	407.9	405.3	479.3	775.0	1315.5	7288.6	12932.9	13748.7	12596.4
52.5°	267.7	354.4	387.5	377.3	517.5	836.2	1427.6	7484.9	14521.1	16313.3	15597.0
55°	239.6	326.3	356.9	354.4	588.9	882.1	1514.3	6449.9	15178.9	18697.0	18977.4
57.5°	219.2	295.7	321.2	364.6	634.8	882.1	1751.4	4578.6	15191.6	20450.9	23464.3
60°	201.4	267.7	285.5	400.2	616.9	836.2	1733.6	2804.3	14001.1	20331.1	25850.5
62.5°	*186.1*	*242.2*	*265.1*	*410.4*	*545.6*	*828.5*	*1565.3*	*1738.7*	*11941.2*	*18783.7*	*24119.5*
65°	173.4	221.8	254.9	377.3	494.6	887.2	1055.4	1249.2	9685.0	17019.5	22133.5
67.5°	160.6	203.9	270.2	308.5	448.7	792.8	762.3	887.2	7602.2	15084.5	20310.7
70°	150.4	193.8	285.5	252.4	392.6	619.5	540.5	673.0	5820.2	12586.2	17743.5
72.5°	142.8	181.0	239.6	198.8	318.7	479.3	377.3	489.5	3803.6	9825.2	14465.0
75°	135.1	165.7	175.9	160.6	237.1	313.6	285.5	328.9	2266.4	7181.5	10975.0
77.5°	132.6	155.5	142.8	130.0	160.6	186.1	216.7	221.8	1106.4	3592.0	5751.3
80°	117.3	140.2	122.4	107.1	109.6	122.4	160.6	147.9	252.4	912.7	1534.7
82.5°	91.8	109.6	102.0	89.2	89.2	89.2	107.1	99.4	81.6	410.4	693.4
85°	63.7	76.5	76.5	71.4	68.8	68.8	66.3	63.7	22.9	25.5	38.2
87.5°	43.3	53.5	56.1	53.5	45.9	40.8	35.7	30.6	10.2	0.0	5.1
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: P643431
CATALOG NUMBER: GWS-SA6E-830-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1116.6	1116.6	1116.6	1116.6	1116.6	1116.6	1116.6	1116.6	1116.6	1116.6
2.5°	1182.9	1190.5	1190.5	1180.4	1172.7	1152.3	1131.9	1111.5	1106.4	1103.9
5°	1182.9	1213.5	1228.8	1226.2	1208.4	1175.3	1131.9	1086.0	1073.3	1068.2
7.5°	1165.1	1223.7	1269.6	1277.2	1244.1	1185.5	1106.4	1037.6	1019.7	1012.1
10°	1205.8	1320.6	1412.3	1425.1	1386.9	1272.1	1144.7	1027.4	999.3	981.5
12.5°	1425.1	1613.7	1725.9	1779.5	1705.5	1560.2	1348.6	1139.6	1075.8	1047.8
15°	1868.7	2136.4	2350.5	2350.5	2281.7	2024.2	1756.5	1417.4	1330.8	1254.3
17.5°	2437.2	2773.7	2962.4	2942.0	2837.4	2656.4	2335.2	1848.3	1672.4	1593.3
20°	3084.7	3286.1	3329.5	3316.7	3270.8	3166.3	2944.5	2421.9	2184.8	2062.4
22.5°	3645.6	3592.0	3528.3	3477.3	3464.6	3495.2	3464.6	3061.8	2875.7	2659.0
25°	4025.4	3722.1	3530.9	3439.1	3482.4	3658.3	3849.5	3699.1	3551.3	3326.9
27.5°	4231.9	3706.8	3431.4	3337.1	3411.0	3660.9	4076.4	4331.4	4178.4	4071.3
30°	4344.1	3694.0	3367.7	3275.9	3388.1	3701.7	4234.5	4922.8	4927.9	4757.1
32.5°	4504.7	3775.6	3380.4	3296.3	3446.7	3824.0	4433.3	5524.5	5672.3	5580.5
35°	4685.7	3900.5	3439.1	3362.6	3548.7	3987.2	4655.1	6131.2	6439.7	6409.1
37.5°	4856.5	4040.7	3576.7	3502.8	3704.2	4127.4	4869.3	6727.8	7156.0	7263.1
40°	5035.0	4237.0	3999.9	4071.3	4183.5	4349.2	5060.5	7245.3	7943.8	8104.4
42.5°	5455.6	4917.7	5279.7	5414.8	5430.1	5088.5	5478.6	7908.1	8718.8	8910.0
45°	6393.8	6128.7	7166.2	7357.4	7258.0	6223.0	6485.6	8864.1	9802.3	9899.2
47.5°	7579.2	7701.6	9748.7	10409.0	9812.5	7561.4	7706.7	10875.6	11785.7	11750.0
50°	8961.0	9539.7	12680.5	14238.2	12810.5	9300.1	9114.0	13348.4	14452.3	14342.7
52.5°	10595.1	11676.1	16203.7	18416.6	17065.4	11255.4	11178.9	16624.4	17297.4	16948.1
55°	12652.5	13738.5	20257.2	23349.6	21427.3	13641.6	13904.2	20422.9	20552.9	19443.9
57.5°	15721.9	16428.1	25034.7	29006.6	25980.5	16884.4	18788.8	25478.3	23923.2	21822.5
60°	21294.8	19887.5	29651.6	34793.6	30824.3	21445.2	25231.0	28473.8	25044.9	22148.8
62.5°	23234.8	22824.4	32542.5	37241.0	34082.3	25190.2	26905.9	26775.9	23591.7	20914.9
65°	20295.4	22092.7	32025.0	35948.5	33664.3	24573.2	24145.0	24902.1	21955.1	19041.1
67.5°	18748.0	20374.5	30064.6	32381.9	31346.9	22480.2	21521.7	21315.2	18431.8	16111.9
70°	17187.8	18799.0	27222.0	27510.1	27028.3	19069.2	17809.8	16425.5	13776.7	11760.2
72.5°	15311.4	16198.6	23278.2	21911.7	21366.2	14977.5	14712.3	12369.5	10327.4	8596.4
75°	13353.5	13096.0	18148.9	15038.7	15446.6	11653.1	12425.6	9083.4	7566.5	6187.3
77.5°	9713.0	9521.8	12155.3	9134.3	10115.8	7632.8	6857.8	3625.2	3451.8	2977.6
80°	5419.9	6534.0	6564.6	5119.1	6386.1	4976.3	1715.7	119.8	76.5	112.2
82.5°	2518.8	2809.4	3558.9	2373.5	3643.0	2465.2	354.4	0.0	0.0	0.0
85°	815.8	1193.1	999.3	349.3	882.1	833.6	58.6	0.0	0.0	0.0
87.5°	48.4	99.4	25.5	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

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.

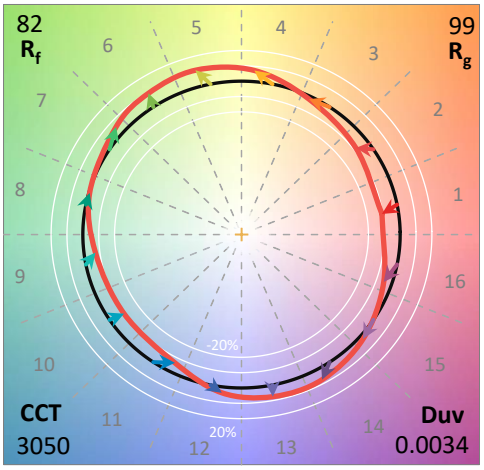
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

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

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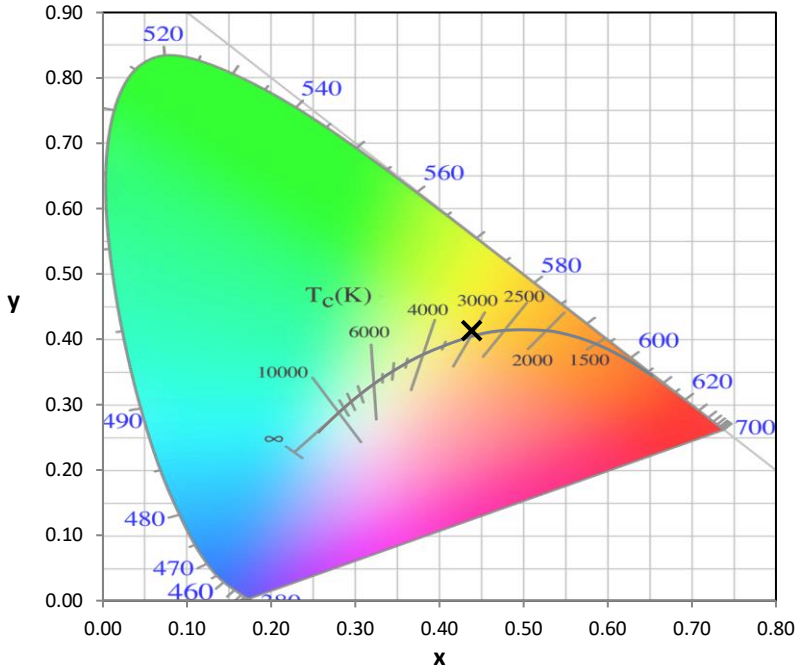
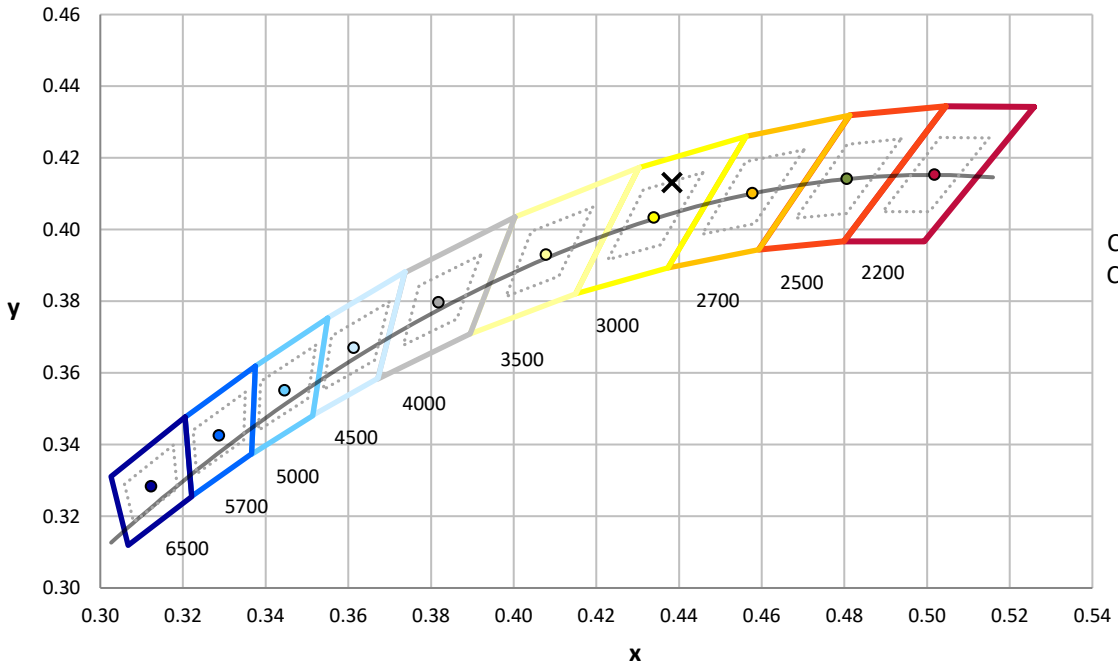
CIE 1931 Chromaticity Diagram



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

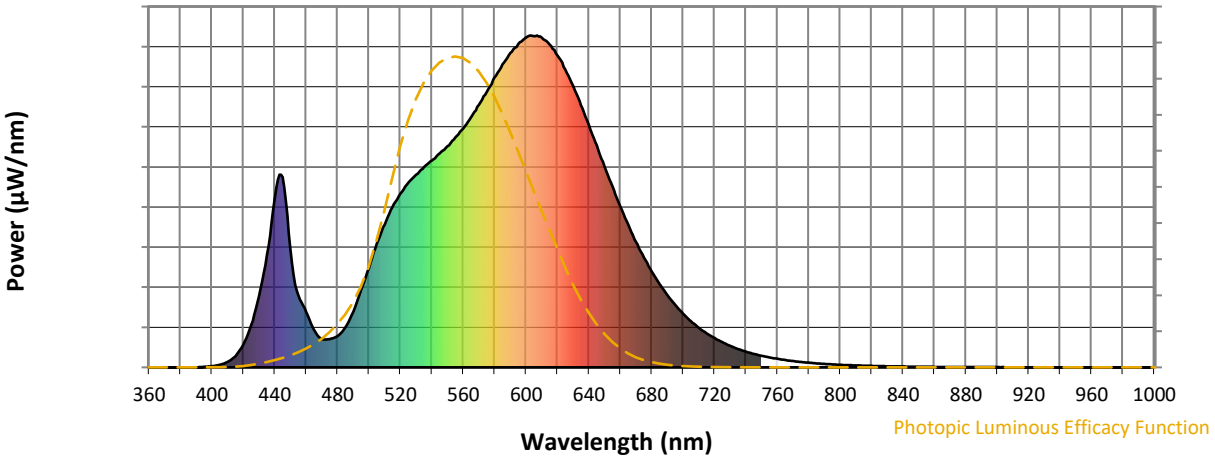


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

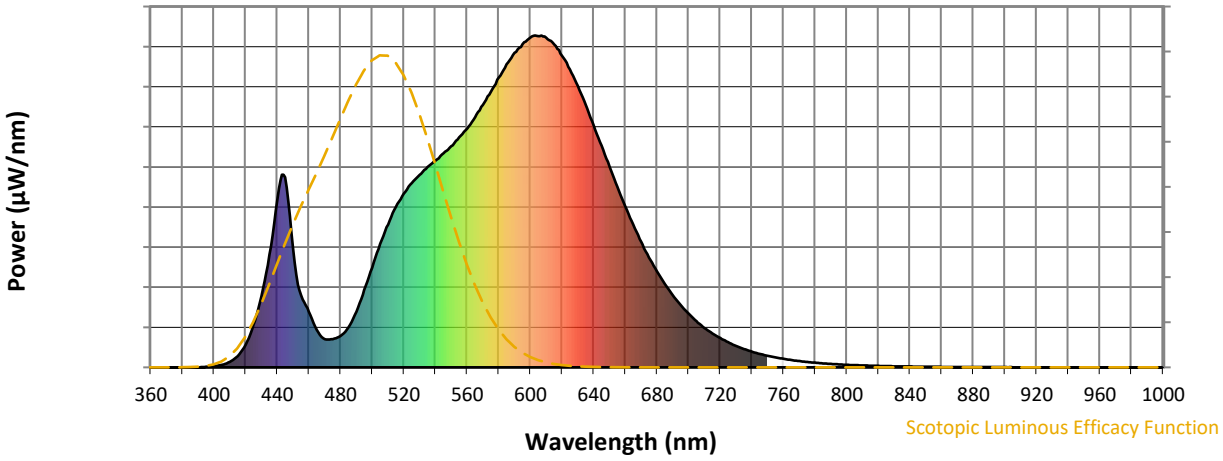


Photopic Lumens: NR

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

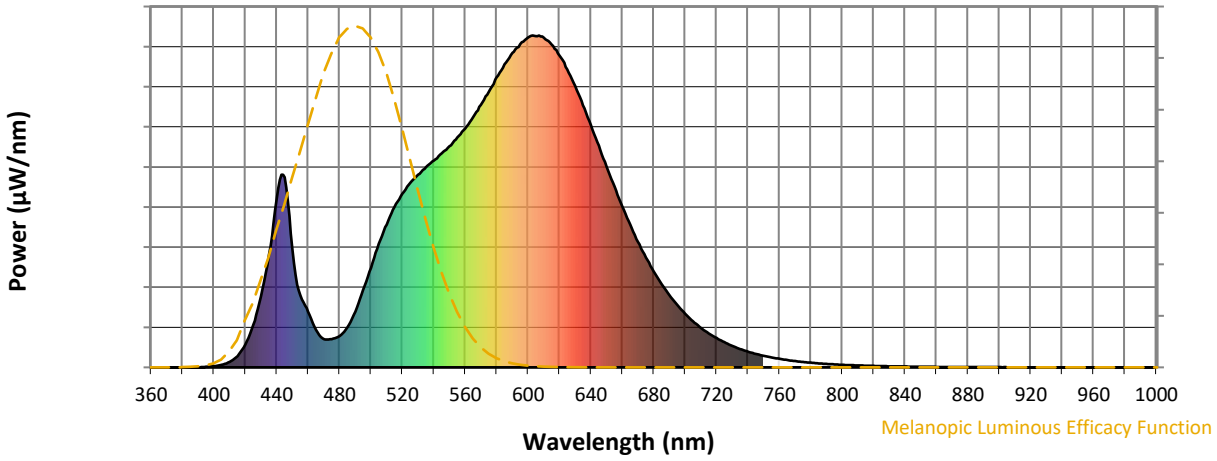


Scotopic Lumens: NR **S/P: 1.27**

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			

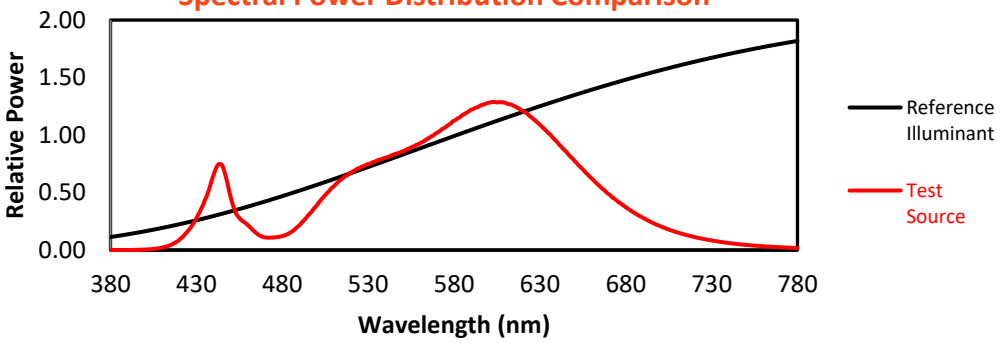
REPORT NUMBER: SP1-2408-195-9

TM-30-18

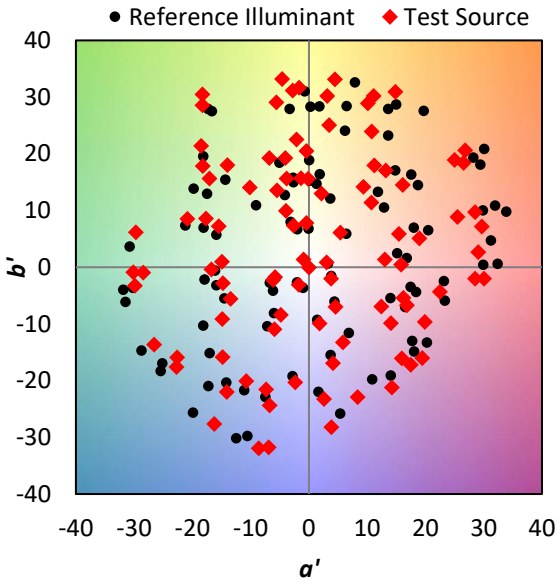
Summary

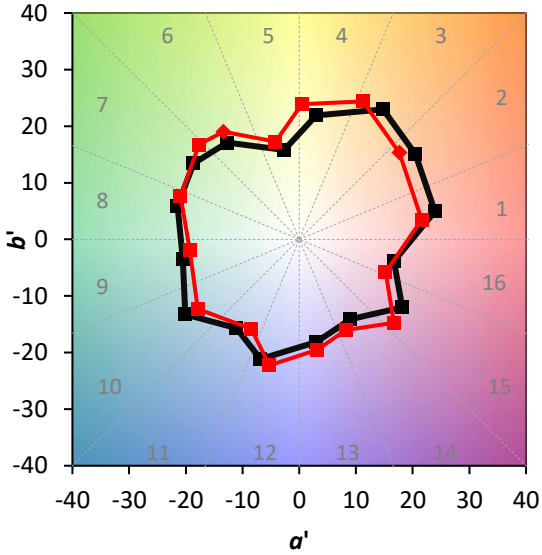
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

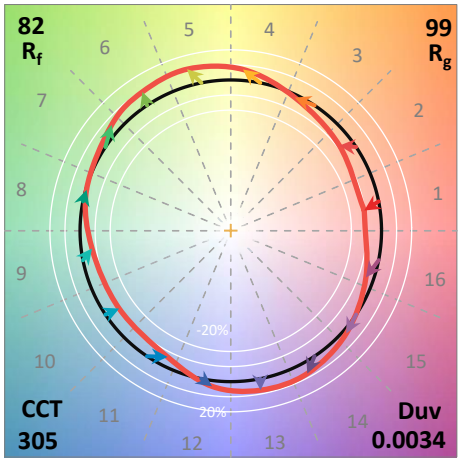
Spectral Power Distribution Comparison

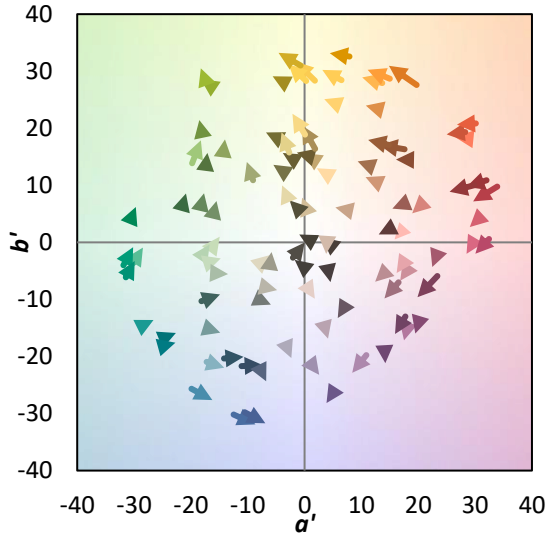


Color Vector Graphics









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
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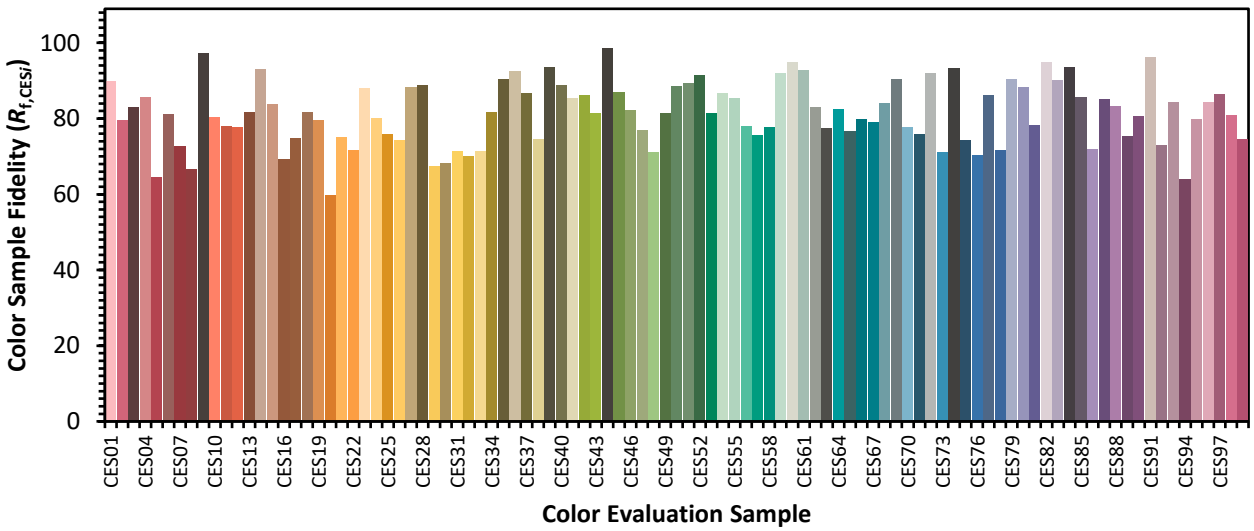

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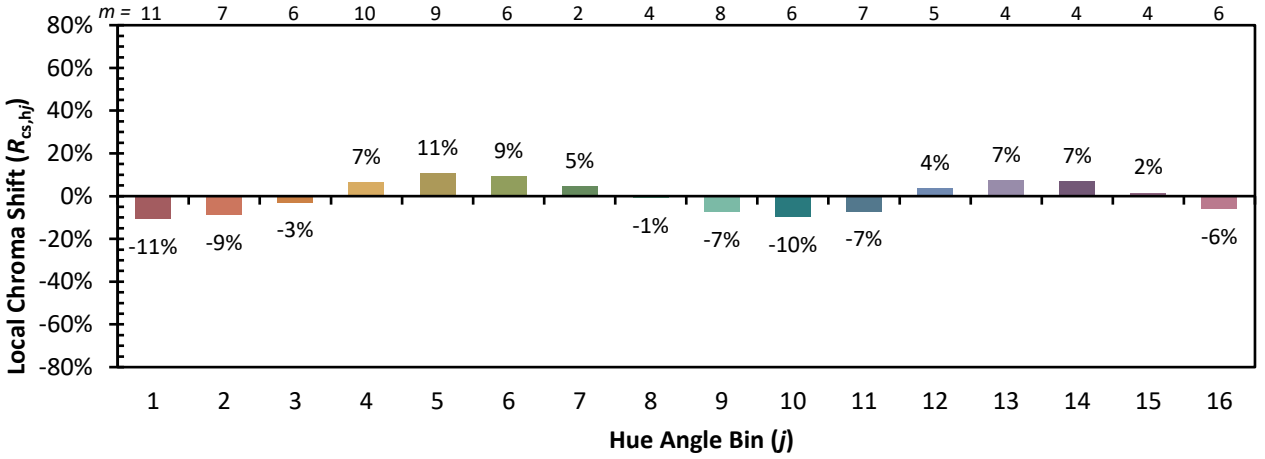
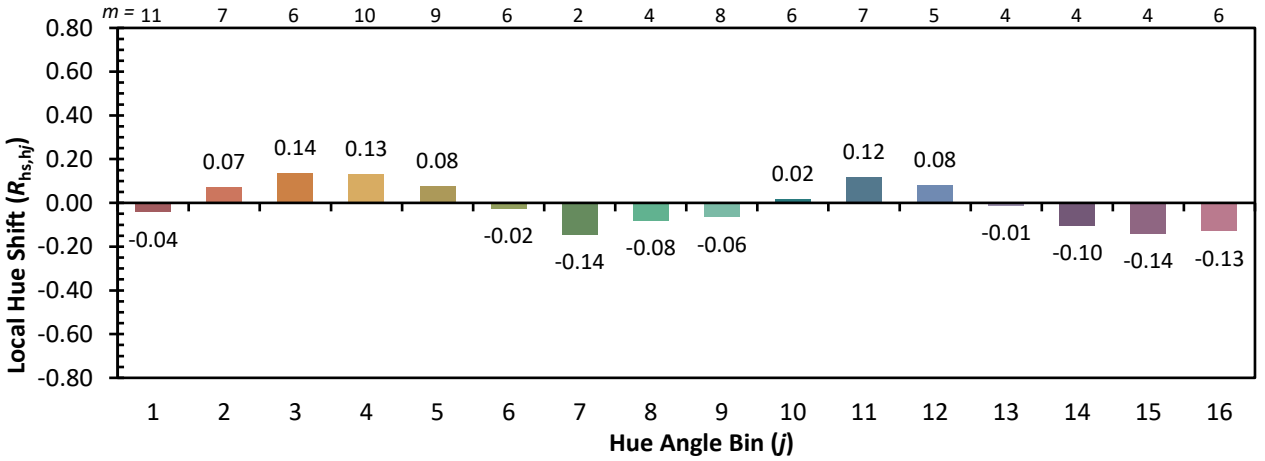
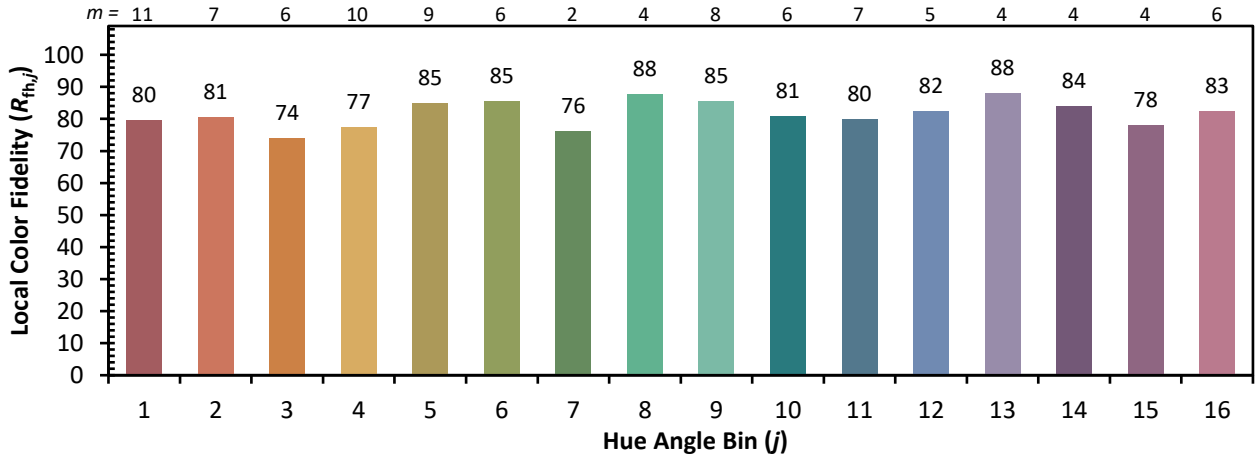
Color Rendition by Hue-Angle Bin







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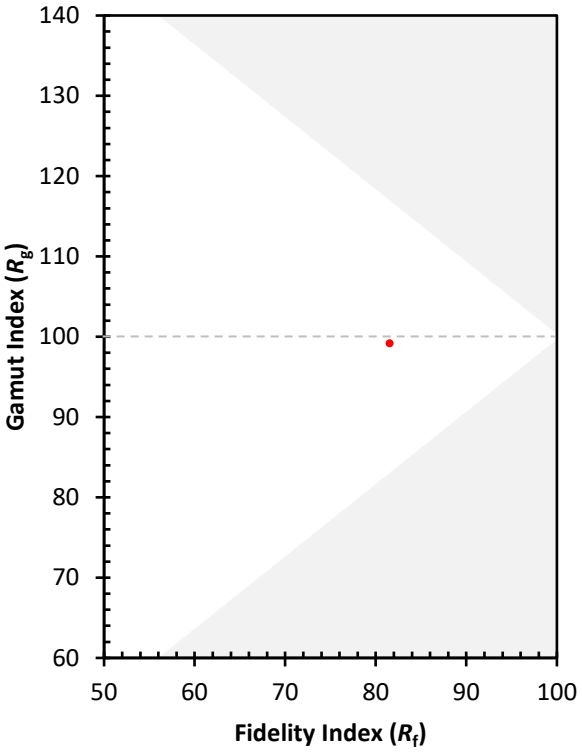
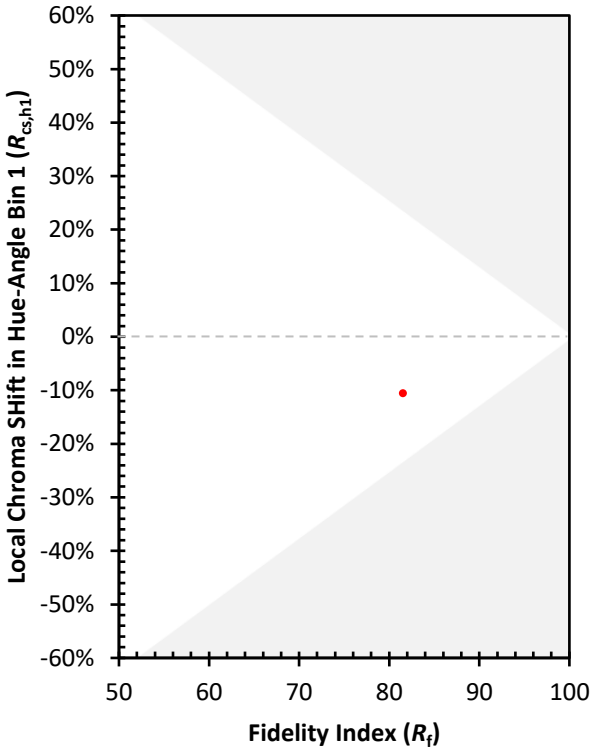
Measure Comparisons





(END OF REPORT)