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: P1197486

Luminaire Tested: GPC-SB1A-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:	P1197486
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)
Test Lab:	INNOVATION CENTER
Issue Date:	3/15/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GPC-SB1A-830-U-SLL-HSS
Description:	GALLEON PEDESTRIAN LUMINAIRE
	(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3092 lumens
Efficiency:	N/A
Efficacy:	100.1 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G1

Input Watts (W):	30.9
Input Voltage (V):	120.0
Input Current (Ain):	0.263
Voltage Rise (V):	NR
Power Factor:	0.995
Total Harmonic Distortion (THDi):	6.356
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

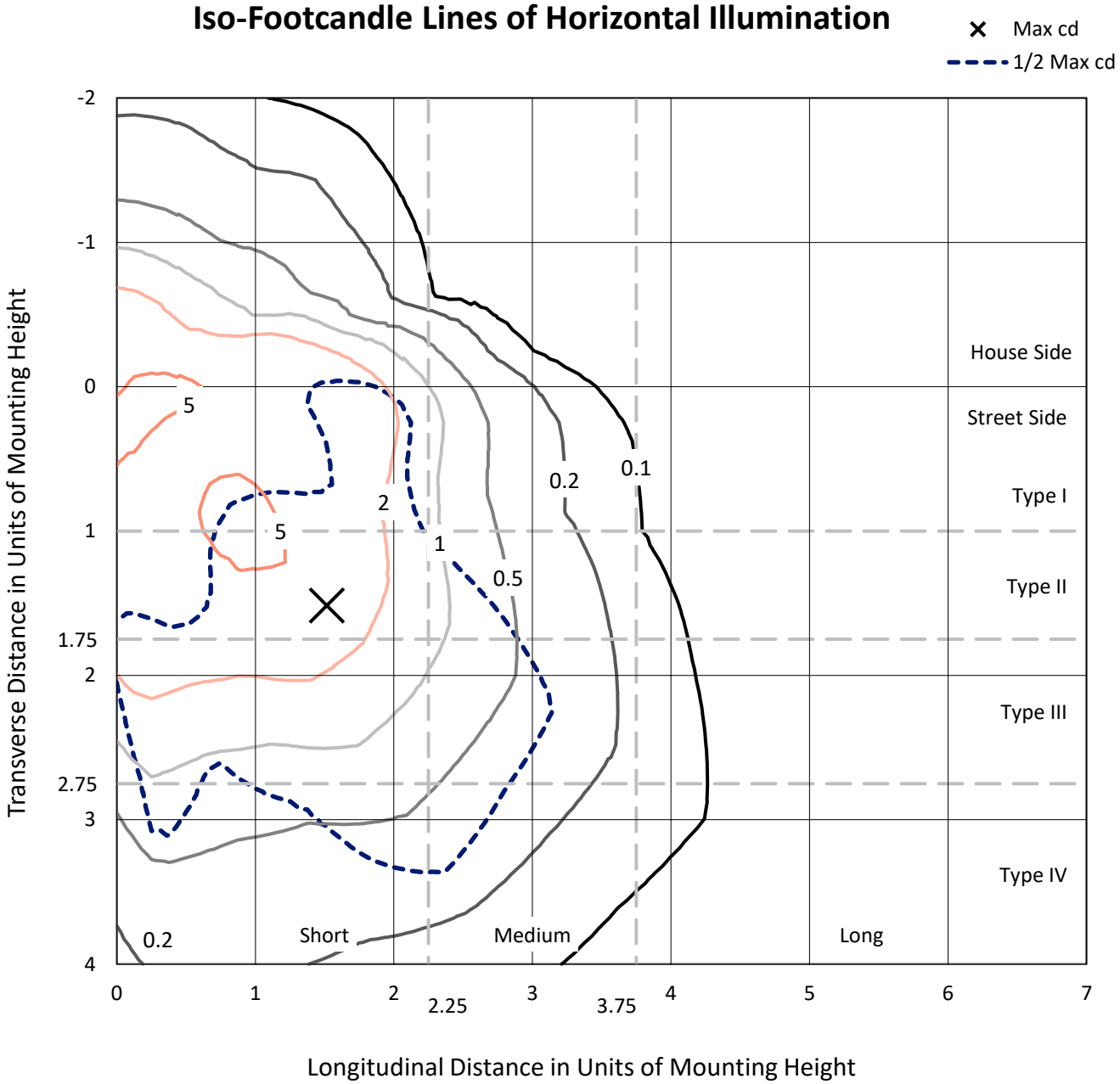


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Iso-Footcandle Lines of Horizontal Illumination



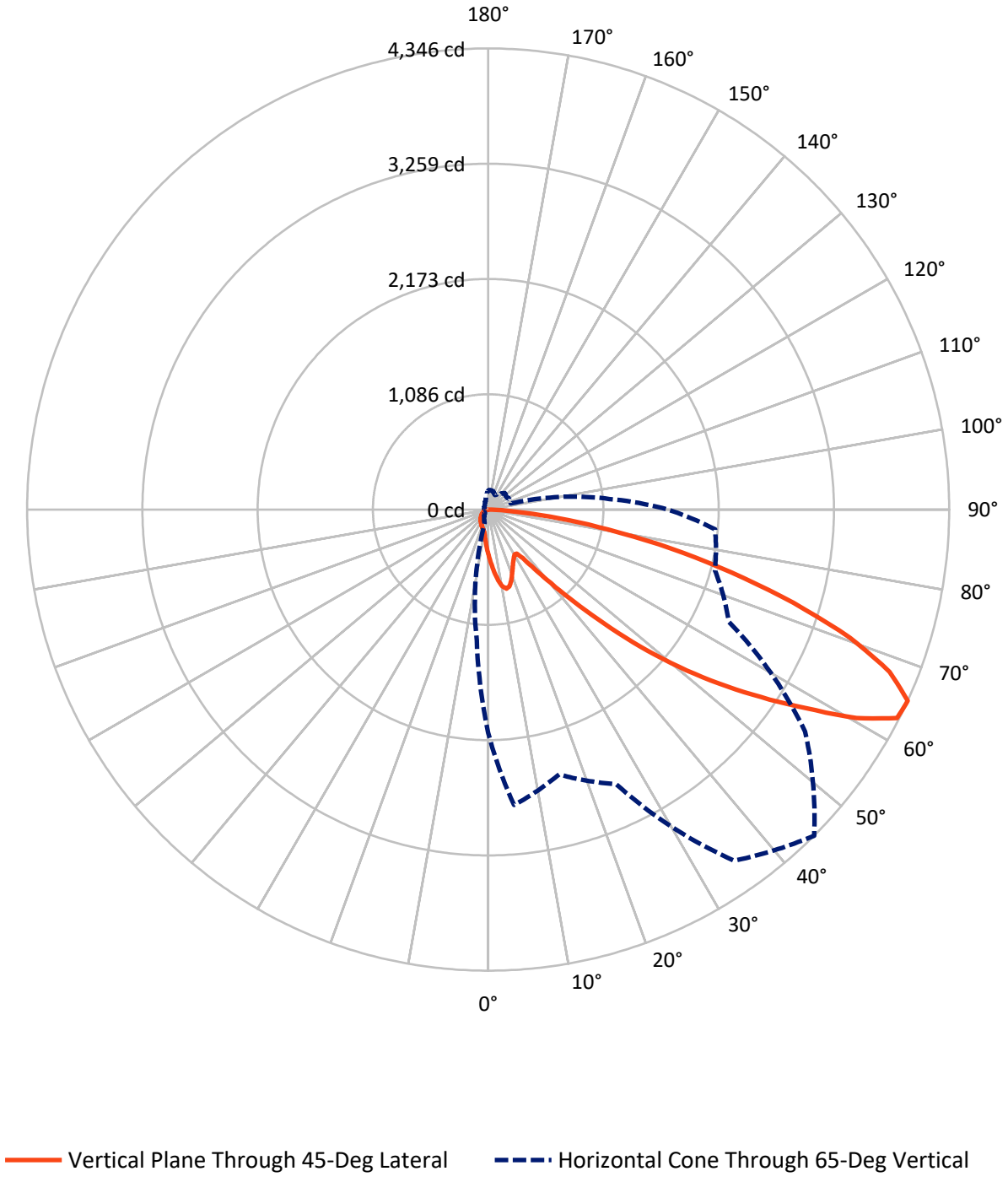
Based on 10 foot mounting height. Maximum calculated value = 7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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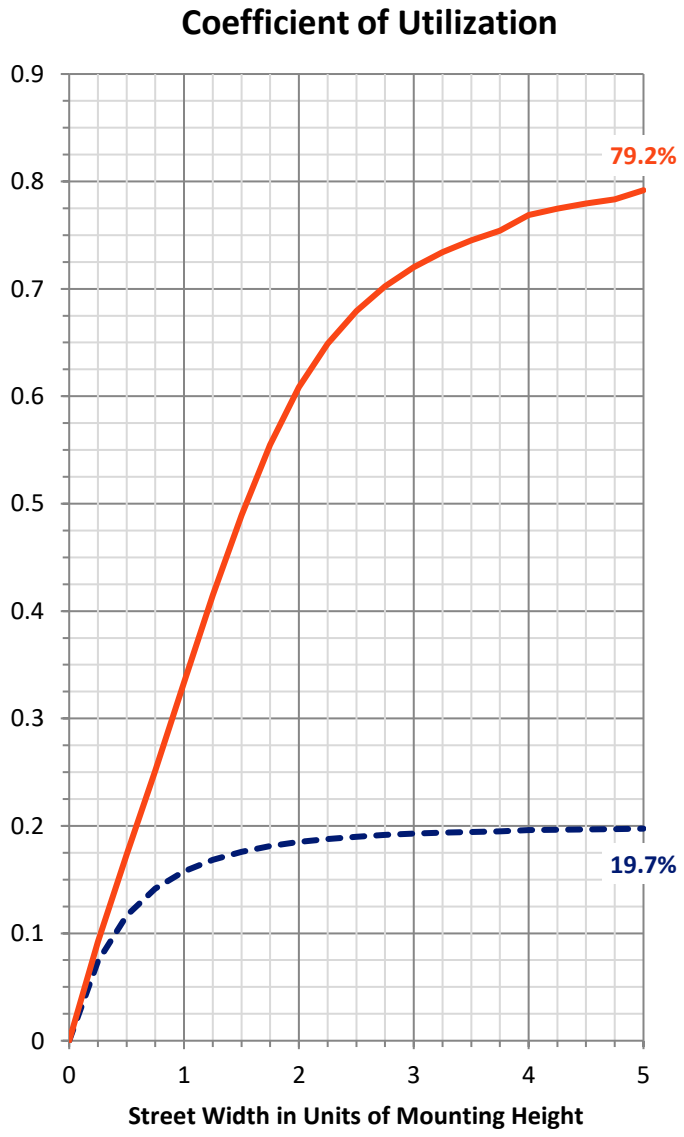
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	614.6	0.0	614.6
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	2477.4	0.0	2477.4
	% Fixture	80.1	0.0	80.1
Total	Lumens	3092.0	0.0	3092.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.2	1.4
10°-20°	126.4	4.1
20°-30°	186.2	6.0
30°-40°	239.2	7.7
40°-50°	386.8	12.5
50°-60°	678.3	21.9
60°-70°	848.7	27.4
70°-80°	495.9	16.0
80°-90°	88.5	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°	3092.0	100.0
0°-180°	3092.0	100.0



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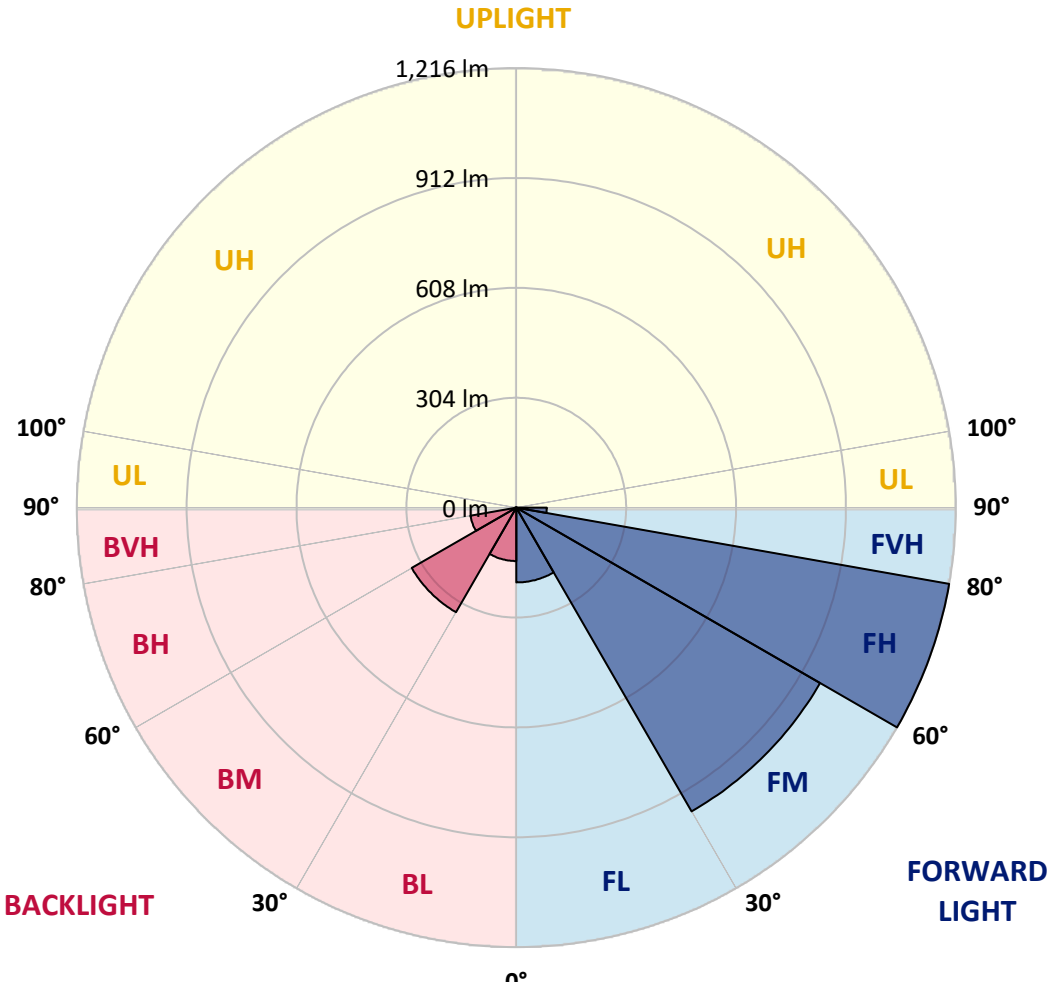
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	206.9	6.7			
FM	(30°-60°)	970.3	31.4			
FH	(60°-80°)	1215.9	39.3			G1/1800
FVH	(80°-90°)	84.3	2.7			G1/100
BL	(0°-30°)	147.8	4.8	B1/500		
BM	(30°-60°)	333.9	10.8	B1/1000		
BH	(60°-80°)	128.8	4.2	B1/500		G1/500
BVH	(80°-90°)	4.1	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	428.1	428.1	428.1	428.1	428.1	*428.1*	428.1	428.1	428.1	428.1	428.1
2.5°	479.7	483.3	491.4	495.7	502.3	*502.7*	502.7	496.9	496.7	485.0	483.7
5°	536.1	544.7	563.8	583.6	587.9	*589.0*	586.8	575.3	566.8	544.0	539.1
7.5°	592.2	608.6	637.7	664.2	672.7	*672.7*	667.6	648.8	631.4	598.3	586.0
10°	638.6	659.3	698.9	728.5	738.3	*736.2*	725.7	702.1	678.0	638.0	621.8
12.5°	669.3	692.5	735.9	759.8	769.8	*764.3*	752.3	729.3	704.0	661.8	643.5
15°	684.6	708.9	746.6	759.2	756.4	*750.6*	749.1	738.1	718.9	679.5	659.5
17.5°	691.2	713.8	740.0	732.1	708.7	*704.2*	719.1	733.2	728.5	694.8	676.1
20°	697.4	716.3	724.2	689.3	648.4	*644.3*	672.9	712.9	733.4	709.1	691.8
22.5°	705.9	717.6	701.4	644.1	600.0	*590.7*	622.2	682.5	734.9	727.2	710.0
25°	717.6	720.8	676.3	601.3	557.0	*547.6*	577.0	648.6	732.3	746.8	732.1
27.5°	731.7	725.1	652.2	565.5	522.7	*514.0*	543.4	616.0	725.1	766.4	756.0
30°	750.0	730.6	628.4	537.8	498.2	*491.8*	520.2	587.9	716.1	791.3	785.6
32.5°	768.5	733.0	606.2	521.7	492.7	*495.0*	518.2	572.8	706.3	815.2	817.9
35°	788.6	740.4	595.4	537.6	538.9	*559.4*	568.9	586.8	704.8	847.6	858.4
37.5°	815.8	757.0	608.3	617.1	661.4	*703.8*	695.9	655.6	722.1	895.9	916.1
40°	855.0	786.2	665.0	752.3	843.3	*912.1*	882.1	780.7	774.9	965.6	995.8
42.5°	912.1	832.6	765.5	917.6	1071.8	*1185.2*	1104.7	941.9	867.4	1065.0	1103.6
45°	996.4	907.8	887.2	1092.1	1353.7	*1532.2*	1364.7	1113.8	996.9	1215.6	1245.9
47.5°	1113.4	1018.4	1001.1	1275.9	1696.2	*1927.1*	1653.1	1273.1	1144.3	1421.0	1428.0
50°	1268.7	1167.3	1109.1	1477.0	2071.7	*2329.7*	1941.3	1426.9	1313.2	1671.9	1663.8
52.5°	1473.6	1375.0	1235.0	1668.5	2457.9	*2723.7*	2230.8	1562.0	1522.8	1963.1	1946.5
55°	1753.0	1687.4	1407.1	1851.2	2843.8	*3120.1*	2509.0	1689.4	1799.7	2309.0	2208.5
57.5°	2099.8	2146.7	1655.3	2063.2	3190.8	*3528.7*	2788.5	1867.4	2159.2	2695.8	2360.5
60°	2323.5	2757.4	2130.5	2376.5	3585.1	*3990.7*	3171.5	2206.1	2537.1	2834.5	2331.6
62.5°	2269.4	2951.6	2699.6	2776.5	3947.6	*4326.6*	3546.8	2546.3	2608.3	2630.2	2108.3
65°	*2103.4*	*2794.9*	*2583.6*	*2854.3*	*4039.5*	*4345.5*	*3647.1*	*2502.4*	*2212.5*	*2147.3*	*1694.7*
67.5°	1875.1	2608.9	2307.7	2648.1	3873.5	*4080.6*	3460.3	2213.6	1709.8	1611.4	1229.5
70°	1628.6	2403.1	2126.7	2416.8	3557.2	*3618.8*	3142.7	1946.9	1257.6	1088.3	789.0
72.5°	1394.8	2188.9	2002.7	2179.7	3135.2	*3007.9*	2729.3	1711.1	915.7	784.9	560.8
75°	1155.6	1872.8	1826.1	1898.1	2580.4	*2369.3*	2267.7	1416.7	718.7	567.9	387.0
77.5°	891.6	1463.4	1570.7	1520.0	1816.3	*1759.9*	1757.7	1064.6	525.1	378.9	242.6
80°	610.3	1019.9	1227.1	1072.3	1178.8	*1150.0*	1323.8	714.2	380.9	228.1	135.0
82.5°	358.7	620.9	854.2	519.1	651.8	*669.1*	788.3	347.4	224.1	52.6	29.4
85°	145.5	245.2	334.0	203.2	314.4	*265.2*	299.3	97.6	62.4	1.3	0.0
87.5°	36.6	78.4	55.0	22.8	36.4	*33.4*	26.4	11.9	2.6	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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Scaled Data Report

REPORT NUMBER: P1197486
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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	428.1	428.1	428.1	428.1	428.1	428.1	428.1	428.1	428.1	428.1	428.1
2.5°	475.4	470.5	458.4	446.2	436.5	423.2	414.5	404.1	394.1	385.1	383.4
5°	525.7	509.5	487.4	467.1	446.5	426.4	406.6	385.8	366.6	354.9	347.4
7.5°	566.6	538.1	508.7	482.9	458.0	434.5	408.3	383.0	353.0	337.0	322.5
10°	597.1	559.6	521.0	491.4	466.3	443.5	421.3	395.8	359.6	339.5	317.8
12.5°	617.1	572.6	527.4	493.5	465.4	447.7	437.9	427.9	391.9	368.5	337.0
15°	630.9	581.7	531.9	488.6	454.1	441.1	450.9	462.4	439.4	412.4	371.3
17.5°	646.0	593.6	533.8	475.4	432.2	426.7	452.0	478.6	477.6	450.7	410.5
20°	662.0	604.1	532.5	454.1	405.6	410.5	442.8	473.7	486.7	472.2	436.5
22.5°	678.4	614.1	527.6	426.4	380.6	396.0	428.4	455.4	470.7	466.3	439.0
25°	699.1	628.2	520.4	396.6	360.0	381.3	411.5	433.5	444.1	443.9	425.2
27.5°	723.8	646.9	516.5	372.5	345.3	364.7	391.5	411.1	418.6	418.6	403.6
30°	752.6	669.1	512.3	356.8	336.8	347.4	368.3	387.5	394.9	394.9	382.3
32.5°	784.5	690.4	502.1	347.2	330.4	330.6	343.8	361.3	370.2	371.5	362.5
35°	822.8	713.1	479.7	339.5	322.9	314.2	320.6	335.1	345.7	348.5	342.9
37.5°	873.1	741.0	447.7	328.2	311.4	296.9	298.4	309.5	321.2	325.5	321.9
40°	940.6	773.9	414.5	312.1	295.2	278.0	277.3	285.4	296.9	301.6	299.7
42.5°	1029.9	813.3	382.8	296.5	275.6	258.0	256.9	263.3	273.3	278.2	277.3
45°	1144.1	861.6	355.5	284.4	256.5	239.0	238.6	243.9	252.6	257.7	256.7
47.5°	1302.7	910.0	337.0	278.0	241.3	223.4	224.3	229.0	236.9	240.5	239.0
50°	1509.6	924.7	327.6	278.0	233.2	209.6	213.9	217.7	223.7	225.8	223.9
52.5°	1708.1	876.1	319.1	279.7	234.3	197.9	207.0	209.8	214.9	215.8	213.0
55°	1805.4	753.2	307.4	280.1	240.9	187.9	201.5	206.6	208.5	208.3	203.6
57.5°	1772.0	609.0	287.6	278.4	245.4	181.5	194.7	204.5	205.8	203.8	195.1
60°	1654.6	448.4	272.4	265.8	243.7	179.6	184.3	199.8	201.7	199.2	184.9
62.5°	1457.8	311.2	260.7	238.1	236.2	178.9	167.8	189.6	194.3	190.6	169.8
65°	*1147.7*	*219.8*	*224.5*	*208.7*	*220.0*	*175.5*	*150.8*	*177.2*	*183.6*	*178.1*	*148.7*
67.5°	776.6	158.7	181.9	189.1	193.8	167.8	138.5	163.2	171.7	164.4	124.2
70°	419.4	111.4	120.1	159.3	164.7	154.6	127.4	148.9	158.7	150.8	101.2
72.5°	247.7	80.1	84.1	128.0	137.2	136.1	115.0	132.3	144.2	134.8	82.2
75°	136.5	54.1	60.1	92.9	111.4	105.0	98.8	112.0	124.2	115.0	63.5
77.5°	61.1	32.4	41.7	60.9	87.5	72.0	76.5	87.3	98.6	89.0	42.4
80°	23.6	18.1	27.7	33.2	63.7	39.8	49.2	64.3	72.4	64.8	25.8
82.5°	3.0	8.1	11.9	13.0	37.1	21.1	28.5	40.5	39.8	34.5	13.0
85°	0.0	1.5	1.7	0.9	16.0	7.7	9.4	13.2	12.4	9.4	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	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°	428.1	428.1	428.1	428.1	428.1	428.1	428.1	428.1	428.1	428.1	428.1
2.5°	373.0	365.3	361.5	358.3	361.3	363.0	363.0	370.2	374.5	376.2	388.1
5°	328.7	314.4	304.8	299.1	301.0	303.1	305.5	314.6	320.8	324.8	343.4
7.5°	293.7	272.0	258.6	251.6	252.6	254.1	256.0	265.0	271.2	276.5	297.1
10°	276.5	245.8	228.1	219.6	218.1	217.3	216.6	222.0	226.6	230.9	251.3
12.5°	277.3	234.5	213.0	202.6	198.1	193.0	188.9	189.8	192.8	198.1	211.1
15°	288.2	230.9	205.1	192.1	184.7	178.7	173.8	172.7	173.8	174.7	182.8
17.5°	302.9	230.5	198.3	182.1	174.5	169.6	165.1	163.6	163.8	164.9	167.0
20°	314.6	229.2	190.6	172.5	165.7	161.5	157.0	155.5	155.9	156.1	158.5
22.5°	320.8	227.3	182.1	162.9	157.2	152.9	148.9	148.7	148.7	150.0	151.7
25°	320.8	223.2	174.5	153.8	148.7	144.8	139.9	140.8	141.2	142.9	145.5
27.5°	313.1	215.6	168.3	145.9	140.6	136.8	132.3	133.3	134.0	135.9	139.1
30°	303.3	206.4	161.2	138.5	132.3	129.5	125.7	126.1	127.0	129.1	132.7
32.5°	292.9	195.5	155.5	131.0	124.8	122.7	118.4	119.1	119.9	122.3	126.3
35°	281.4	182.8	148.7	124.2	118.0	116.3	111.4	111.8	113.1	115.7	119.7
37.5°	269.2	172.3	141.9	117.6	111.2	109.5	104.4	104.8	106.3	109.3	113.1
40°	257.3	162.1	134.6	110.6	104.2	102.7	97.1	97.6	99.3	102.5	106.5
42.5°	244.3	154.2	125.2	103.3	96.5	95.0	89.9	90.5	92.4	95.6	99.7
45°	228.8	149.1	114.8	96.5	88.8	87.3	82.6	83.9	86.1	89.2	93.5
47.5°	212.8	147.0	106.1	89.2	80.9	79.7	75.8	78.0	80.3	82.9	87.5
50°	197.5	144.2	97.1	82.4	74.1	72.8	70.3	73.1	75.4	77.7	82.2
52.5°	180.0	138.2	89.0	76.5	68.4	67.9	66.7	69.2	71.4	73.5	77.3
55°	161.9	128.7	82.0	71.1	63.5	63.9	63.3	65.4	67.1	69.0	72.4
57.5°	146.1	116.5	76.5	65.4	59.2	60.5	59.6	60.7	61.8	64.1	66.9
60°	130.1	102.0	70.3	58.6	55.0	56.4	54.1	53.9	54.3	55.0	60.1
62.5°	108.6	86.9	62.6	52.6	50.3	50.9	46.4	43.0	43.0	43.7	51.3
65°	*87.3*	*72.8*	*54.1*	*45.8*	*43.9*	*43.5*	*37.1*	*32.4*	*32.0*	*33.9*	*40.5*
67.5°	71.8	60.5	45.6	38.1	36.9	37.3	32.6	27.9	27.5	29.6	34.5
70°	59.4	48.8	36.4	29.4	30.7	32.6	27.9	23.4	22.8	24.7	29.4
72.5°	47.3	38.1	27.9	21.7	25.3	27.7	22.8	18.5	18.1	19.8	24.3
75°	34.7	27.3	19.0	15.8	19.6	21.7	16.6	13.2	12.6	14.1	18.5
77.5°	21.5	15.3	11.9	9.4	13.4	14.5	8.7	7.7	7.5	8.5	11.7
80°	10.0	6.6	5.8	3.2	4.9	5.8	3.6	4.0	4.3	5.1	7.2
82.5°	2.8	1.1	0.2	0.0	0.0	1.7	0.9	1.7	2.1	3.2	4.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.1	1.9	3.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.7
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: P1197486
CATALOG NUMBER: GPC-SB1A-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	428.1	428.1	428.1	428.1	428.1	428.1	428.1	428.1
2.5°	397.0	405.6	419.2	433.3	447.1	461.2	474.8	479.7
5°	360.2	379.8	406.8	435.8	465.6	495.9	523.6	536.1
7.5°	319.1	347.2	387.9	433.3	480.8	528.3	571.9	592.2
10°	275.2	310.8	357.2	418.6	486.7	552.3	612.4	638.6
12.5°	233.5	270.7	322.1	395.6	482.0	566.2	638.4	669.3
15°	198.5	231.5	286.9	368.3	466.9	567.0	650.7	684.6
17.5°	172.3	193.8	251.1	338.0	447.1	559.1	655.0	691.2
20°	159.3	165.3	204.7	299.3	428.6	551.7	659.3	697.4
22.5°	151.7	153.2	167.4	249.2	406.4	549.3	666.7	705.9
25°	145.5	145.9	149.7	197.5	372.5	547.9	678.2	717.6
27.5°	139.3	139.3	141.4	159.1	326.5	541.5	693.1	731.7
30°	133.1	133.1	134.6	140.8	272.6	528.9	711.0	750.0
32.5°	126.7	126.7	128.0	132.5	217.7	513.1	727.4	768.5
35°	120.3	119.9	121.6	126.3	173.2	493.1	743.8	788.6
37.5°	113.5	113.3	115.0	120.3	149.5	469.9	756.2	815.8
40°	106.3	106.3	108.2	114.0	142.7	440.7	775.8	855.0
42.5°	99.7	99.3	101.4	108.4	137.6	412.8	810.9	912.1
45°	93.3	92.4	94.4	103.1	128.7	403.0	876.5	996.4
47.5°	87.3	85.2	86.9	96.7	120.6	439.6	983.9	1113.4
50°	82.4	78.4	79.9	90.3	114.4	519.1	1123.2	1268.7
52.5°	77.3	72.0	72.8	82.4	108.8	594.7	1274.2	1473.6
55°	72.0	66.0	66.5	74.6	101.0	606.0	1421.6	1753.0
57.5°	66.0	60.5	60.5	67.3	95.2	525.3	1534.9	2099.8
60°	59.4	55.8	54.7	61.6	100.3	370.6	1548.1	2323.5
62.5°	52.2	50.3	48.8	56.0	104.2	219.6	1441.8	2269.4
65°	*43.9*	*43.5*	*42.4*	*61.6*	*87.8*	*129.7*	*1237.8*	*2103.4*
67.5°	36.9	36.2	36.2	64.5	66.7	81.6	967.0	1875.1
70°	31.7	29.4	29.4	48.8	40.5	56.4	675.2	1628.6
72.5°	26.6	24.1	22.4	39.0	30.2	41.3	422.0	1394.8
75°	21.3	19.4	17.3	25.8	22.6	31.3	245.2	1155.6
77.5°	15.3	14.5	12.1	19.0	16.4	22.6	145.9	891.6
80°	7.9	8.1	7.7	10.9	11.1	15.3	83.1	610.3
82.5°	4.7	3.6	4.0	5.3	6.4	8.7	31.3	358.7
85°	3.0	1.9	1.9	2.6	3.2	3.4	9.6	145.5
87.5°	1.5	0.6	0.9	1.3	1.1	0.9	0.4	36.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0


HS
SS

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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

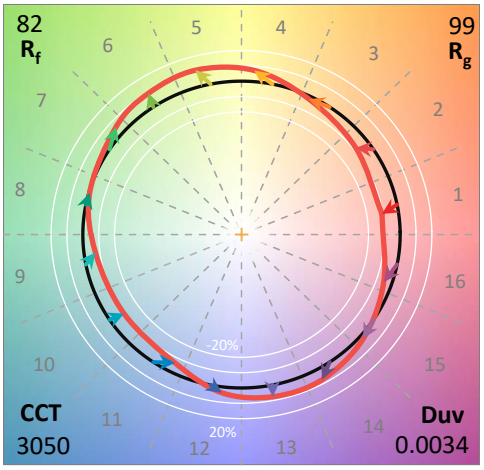
Test Information

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

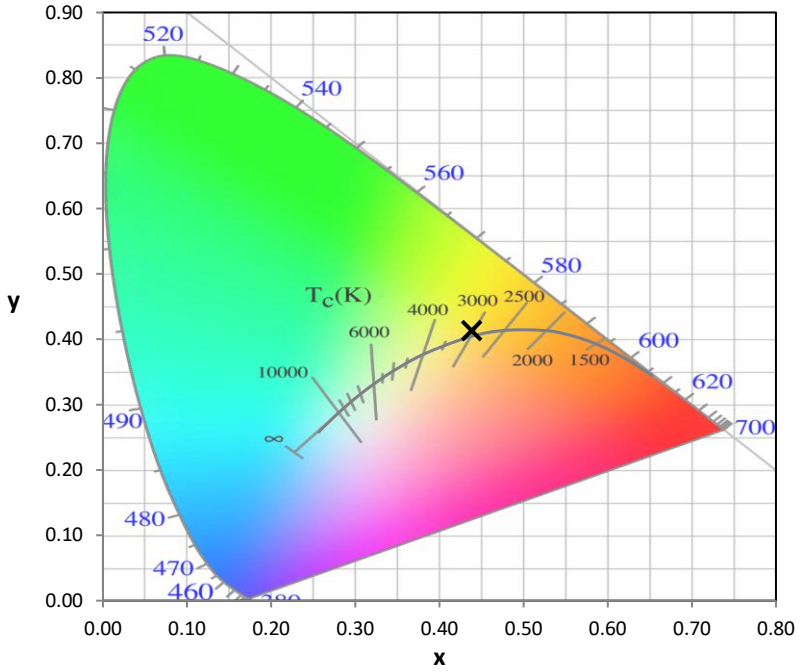
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

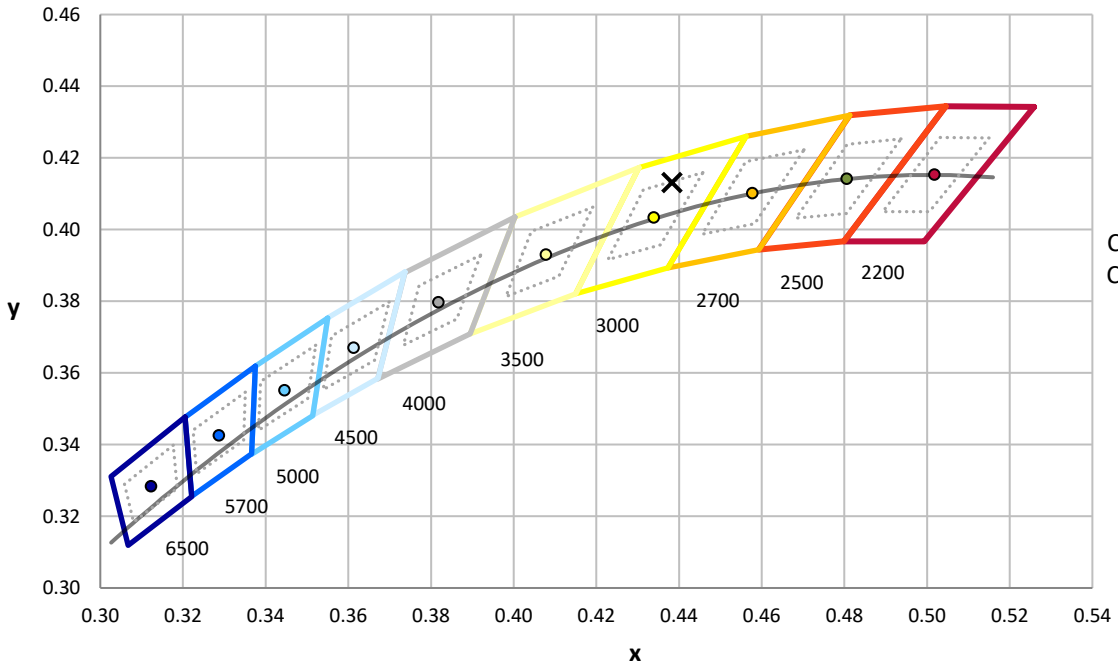
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

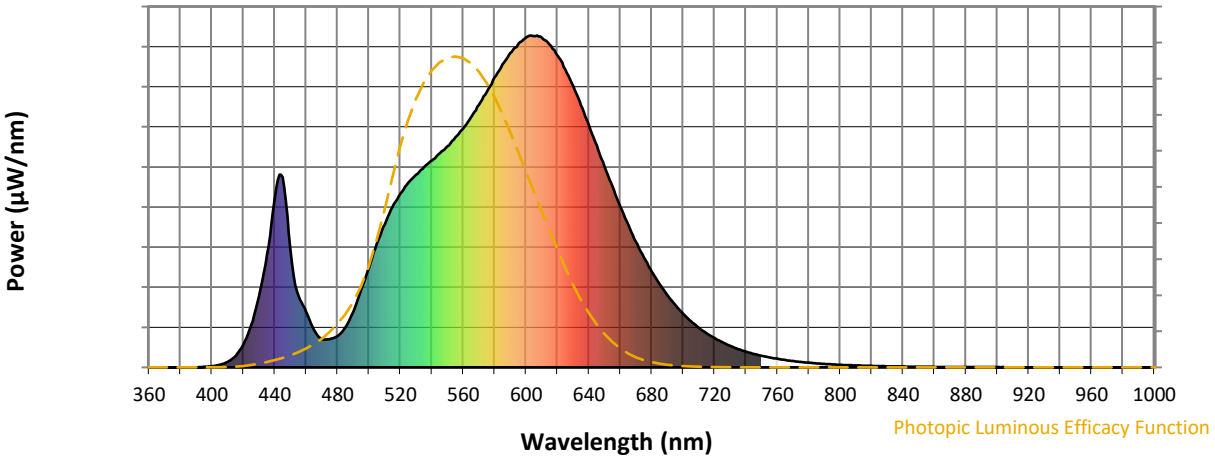


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

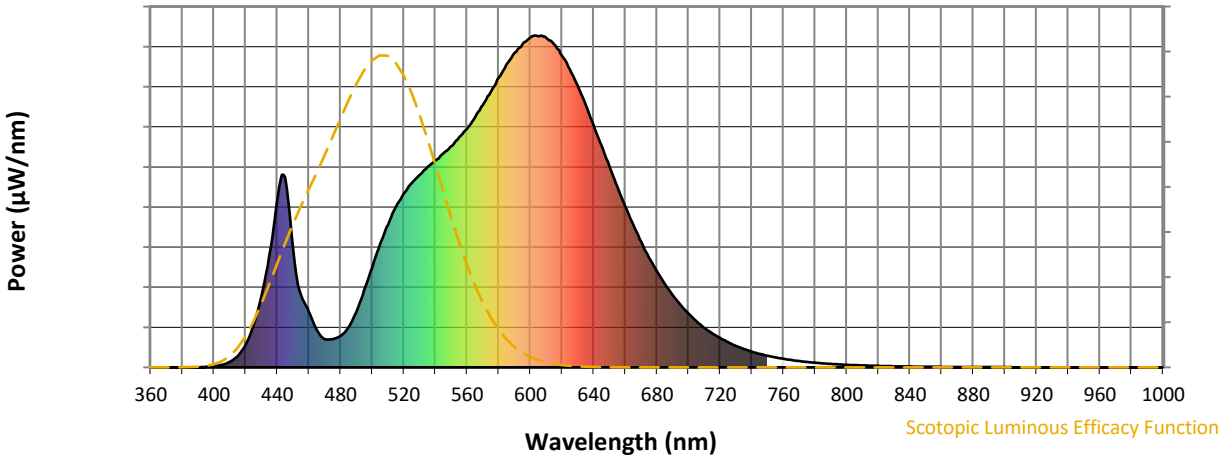


Photopic Lumens: NR

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

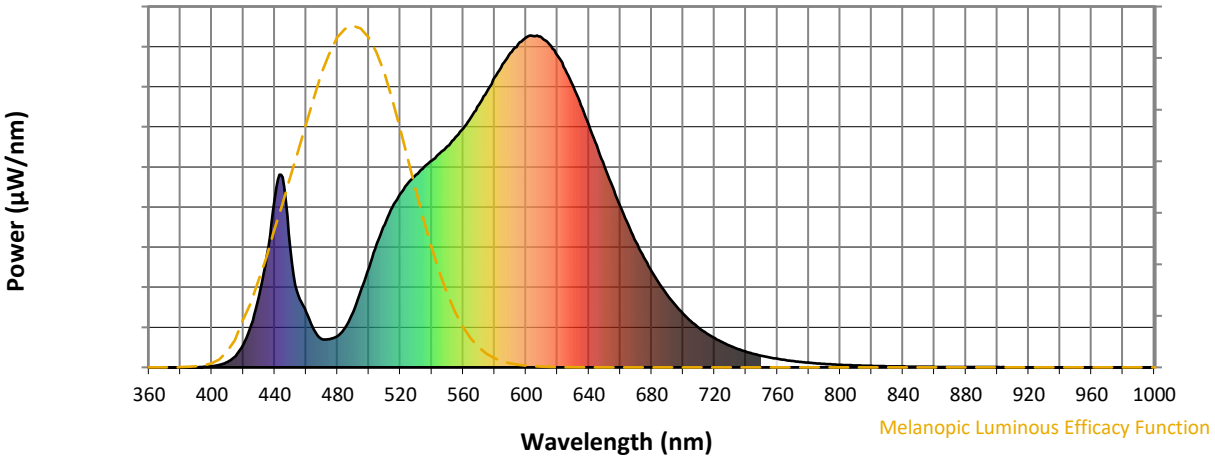


Scotopic Lumens: NR **S/P: 1.27**

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			

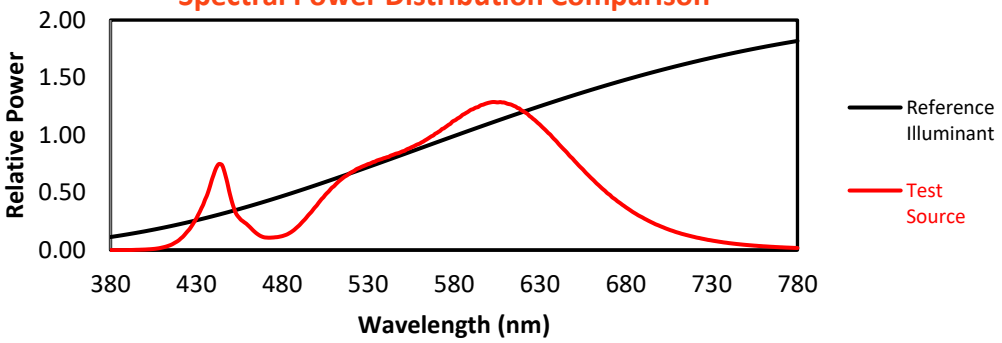
REPORT NUMBER: SP1-2408-195-9

TM-30-18

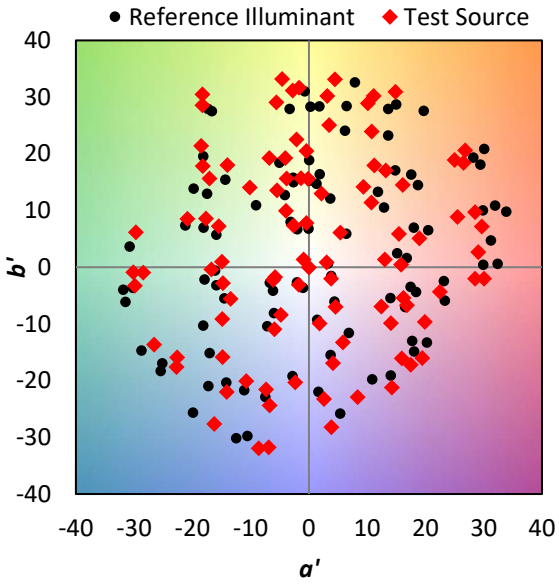
Summary

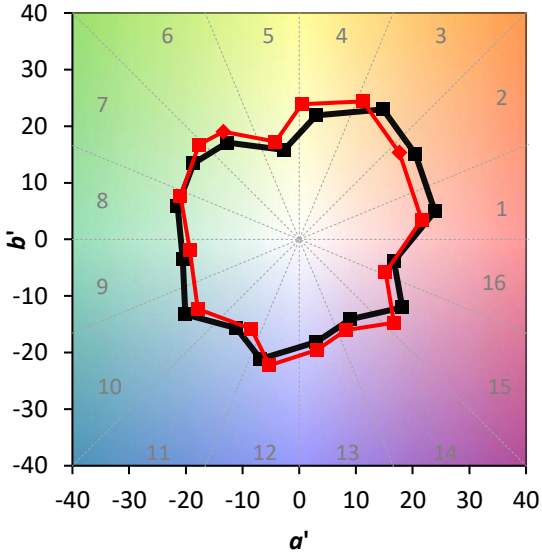
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R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

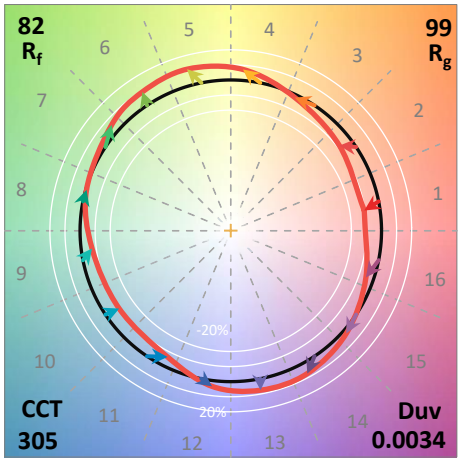
Spectral Power Distribution Comparison

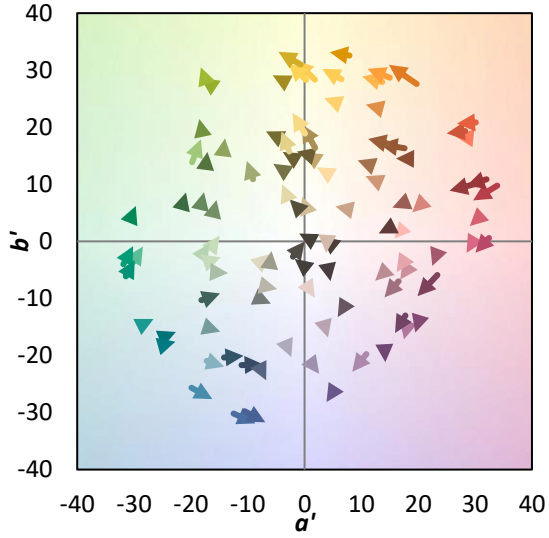


Color Vector Graphics







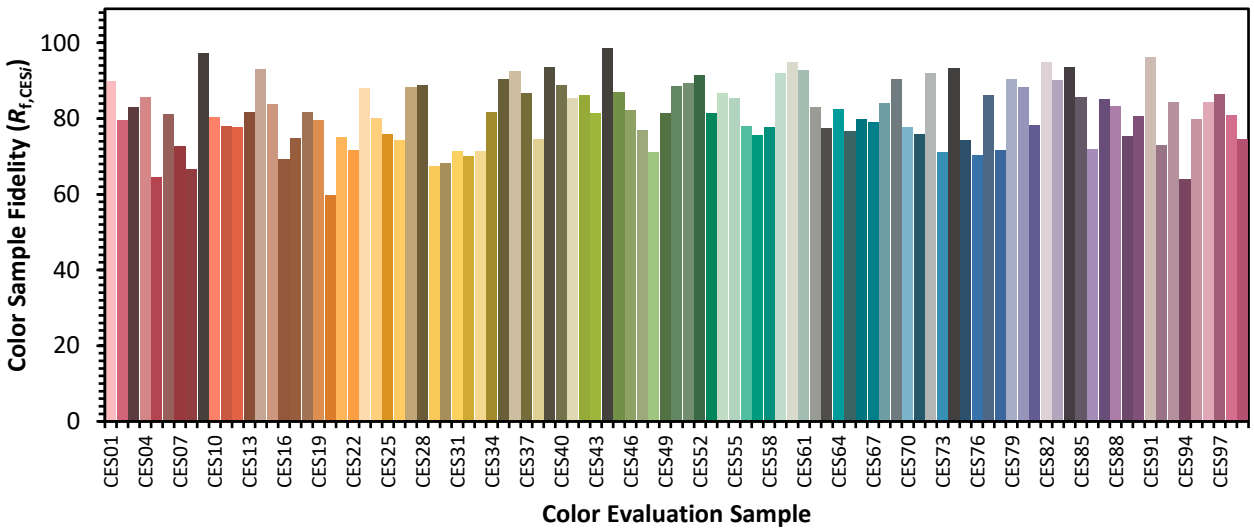


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

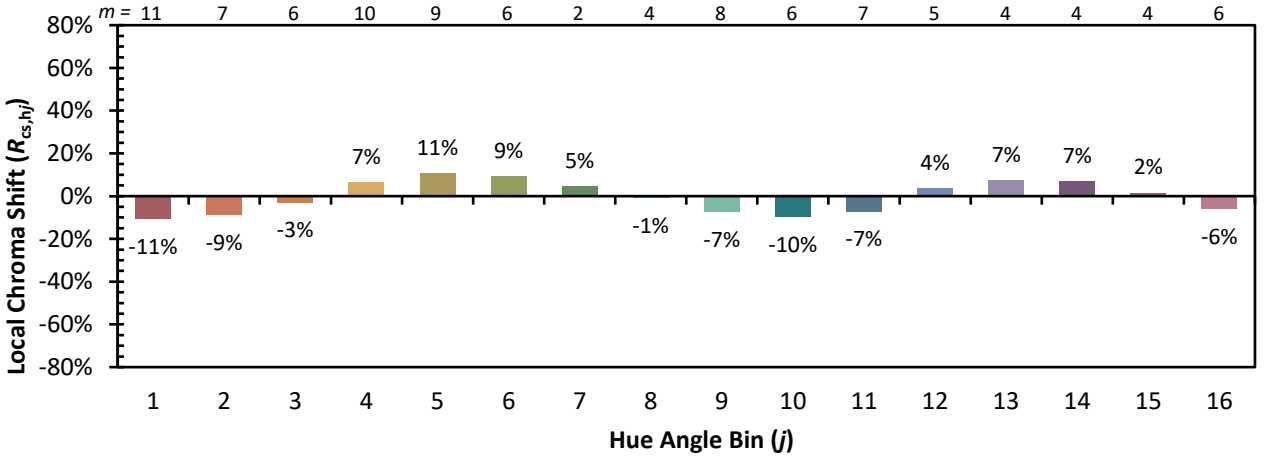
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CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57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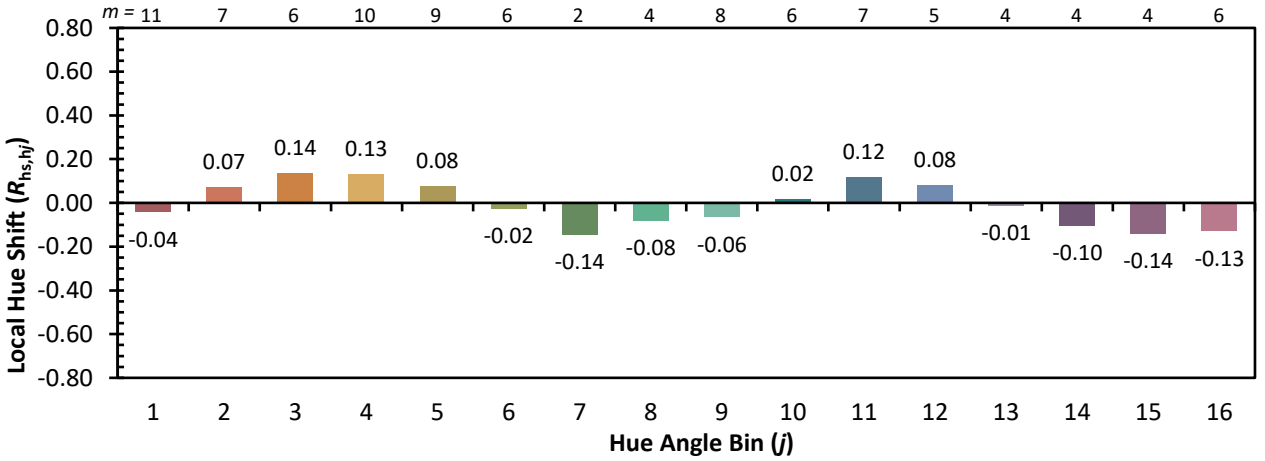


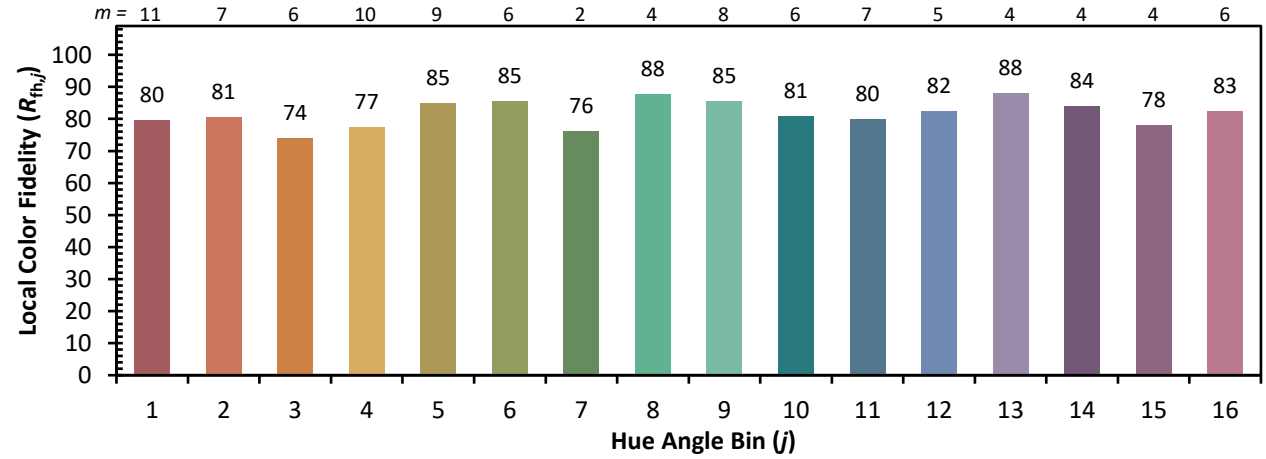
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Color Rendition by Hue-Angle Bin



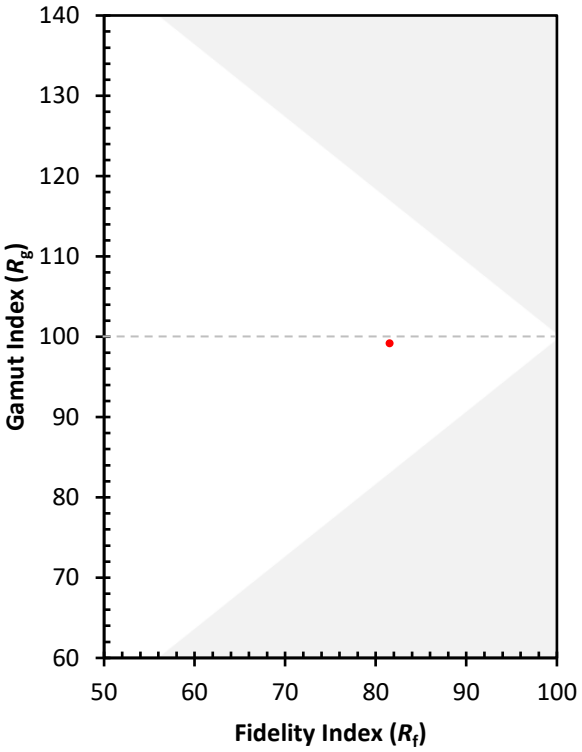


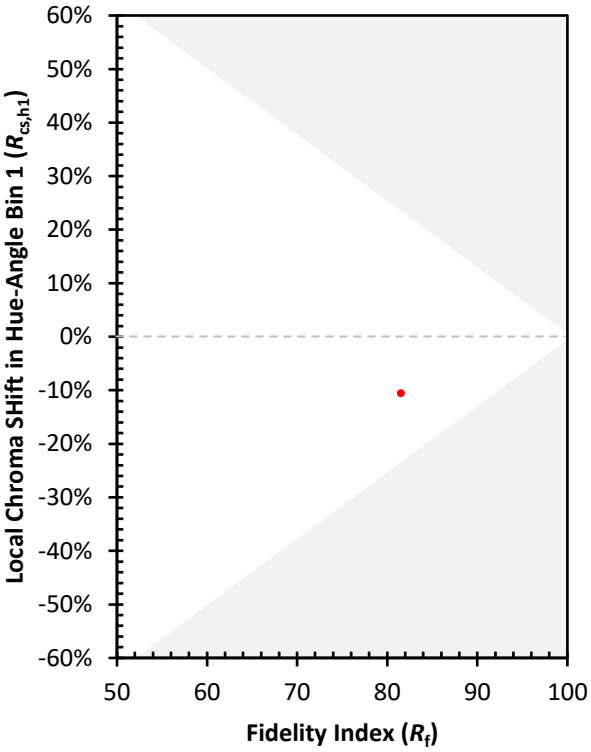


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Measure Comparisons





(END OF REPORT)