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: P1201620

Luminaire Tested: GWC-SB1B-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:	P1201620
	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-SB1B-830-U-SLR-HSS
Description:	GALLEON WALL LUMINAIRE
	(1) 80 CRI, 3000K, 450mA 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:	3882 lumens
Efficiency:	N/A
Efficacy:	97.5 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):	39.8
Input Voltage (V):	120.0
Input Current (Ain):	0.33
Voltage Rise (V):	NR
Power Factor:	0.996
Total Harmonic Distortion (THDi):	5.305
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

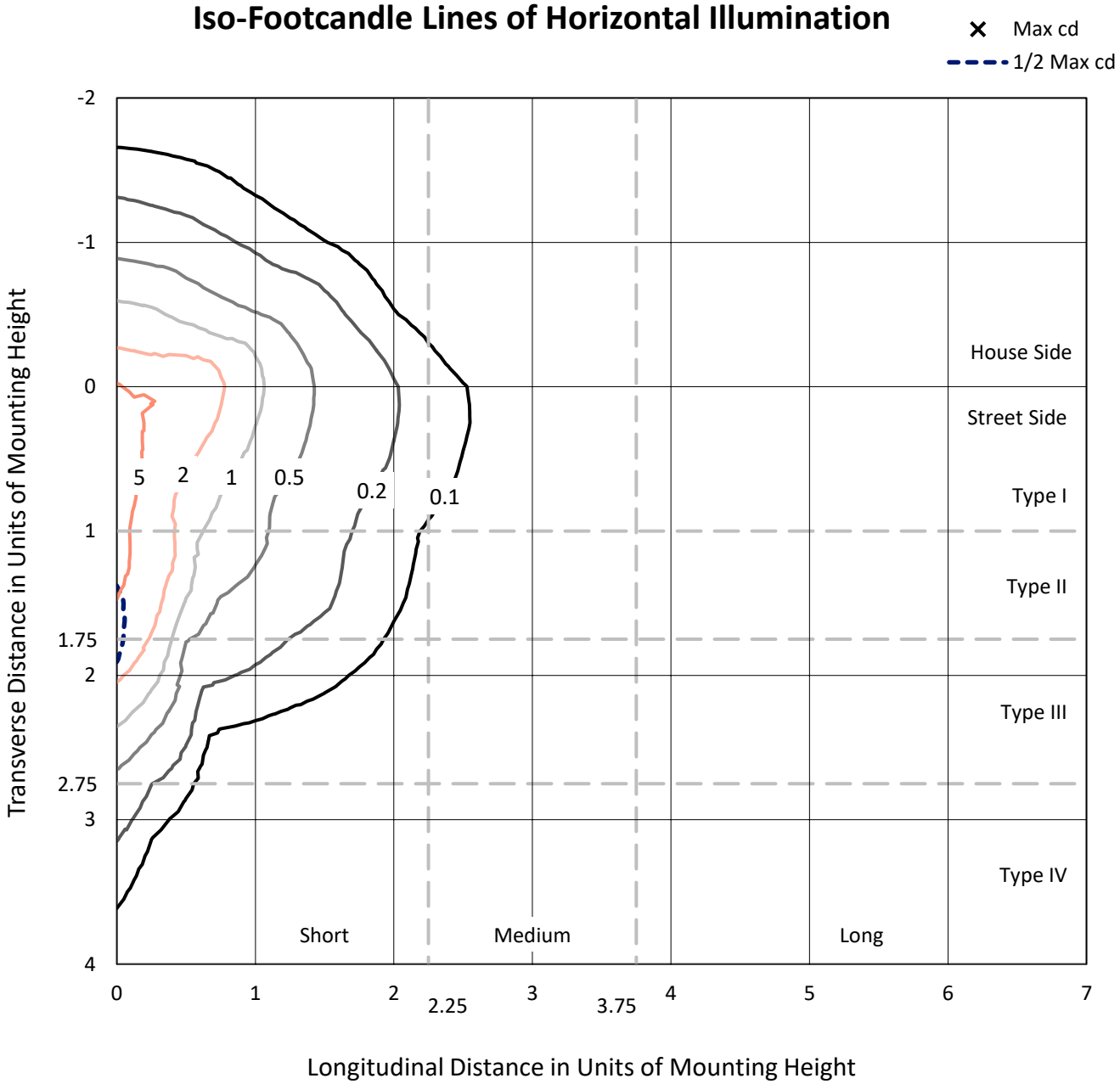


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Iso-Footcandle Lines of Horizontal Illumination



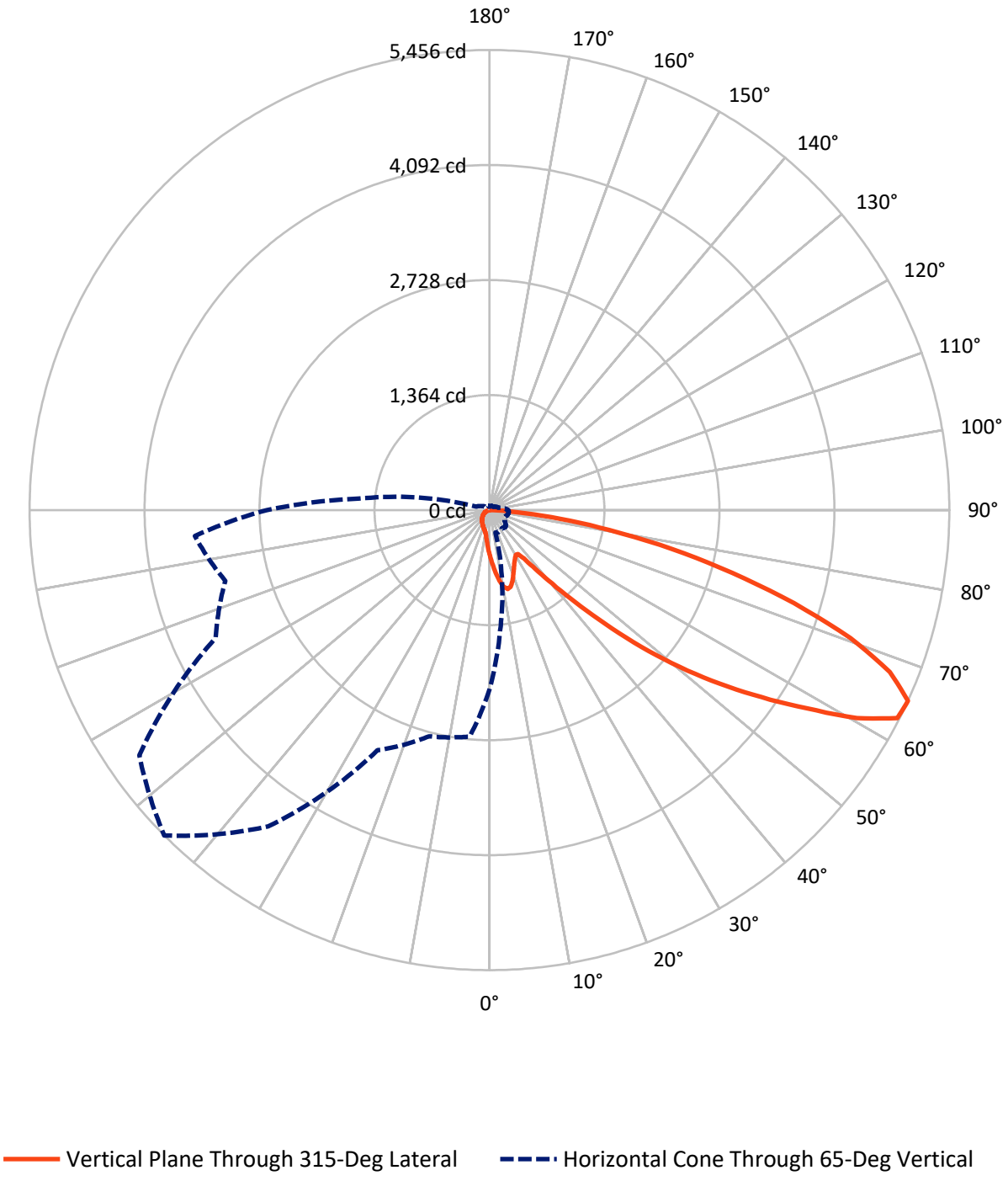
Based on 10 foot mounting height. Maximum calculated value = 9.6 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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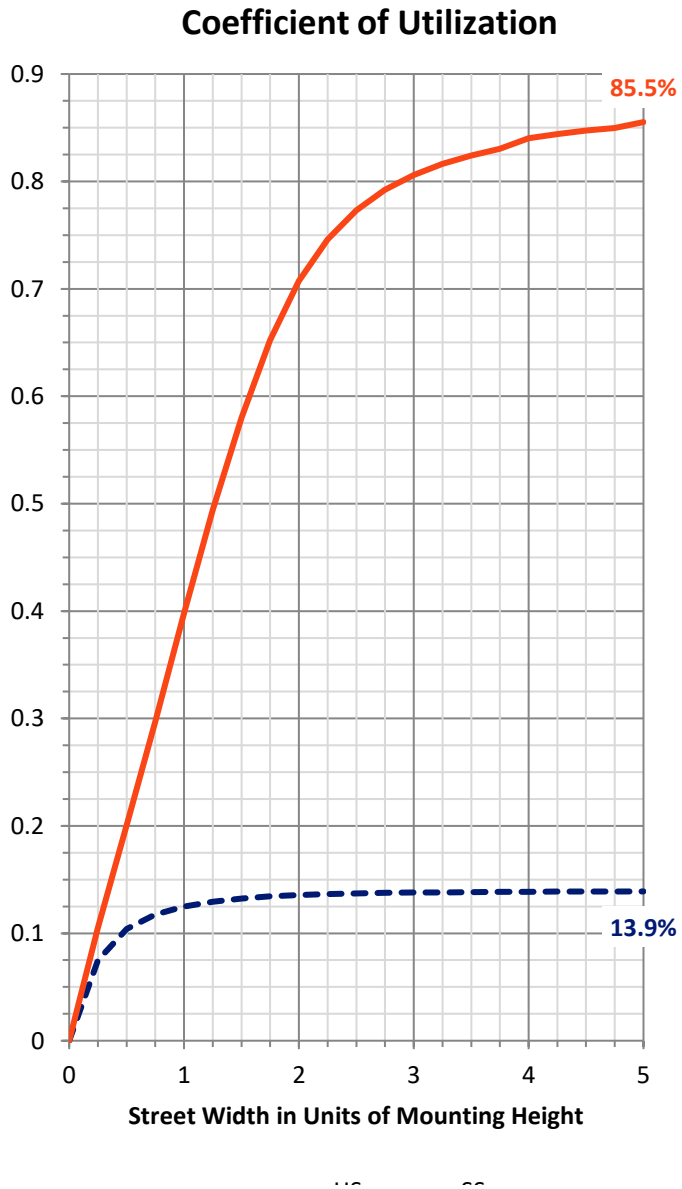
REPORT NUMBER: P1201620
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	543.6	0.0	543.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	3338.4	0.0	3338.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	3882.0	0.0	3882.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.9	1.4
10°-20°	158.6	4.1
20°-30°	233.7	6.0
30°-40°	300.3	7.7
40°-50°	485.6	12.5
50°-60°	851.6	21.9
60°-70°	1065.5	27.4
70°-80°	622.7	16.0
80°-90°	111.1	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°	3882.0	100.0
0°-180°	3882.0	100.0



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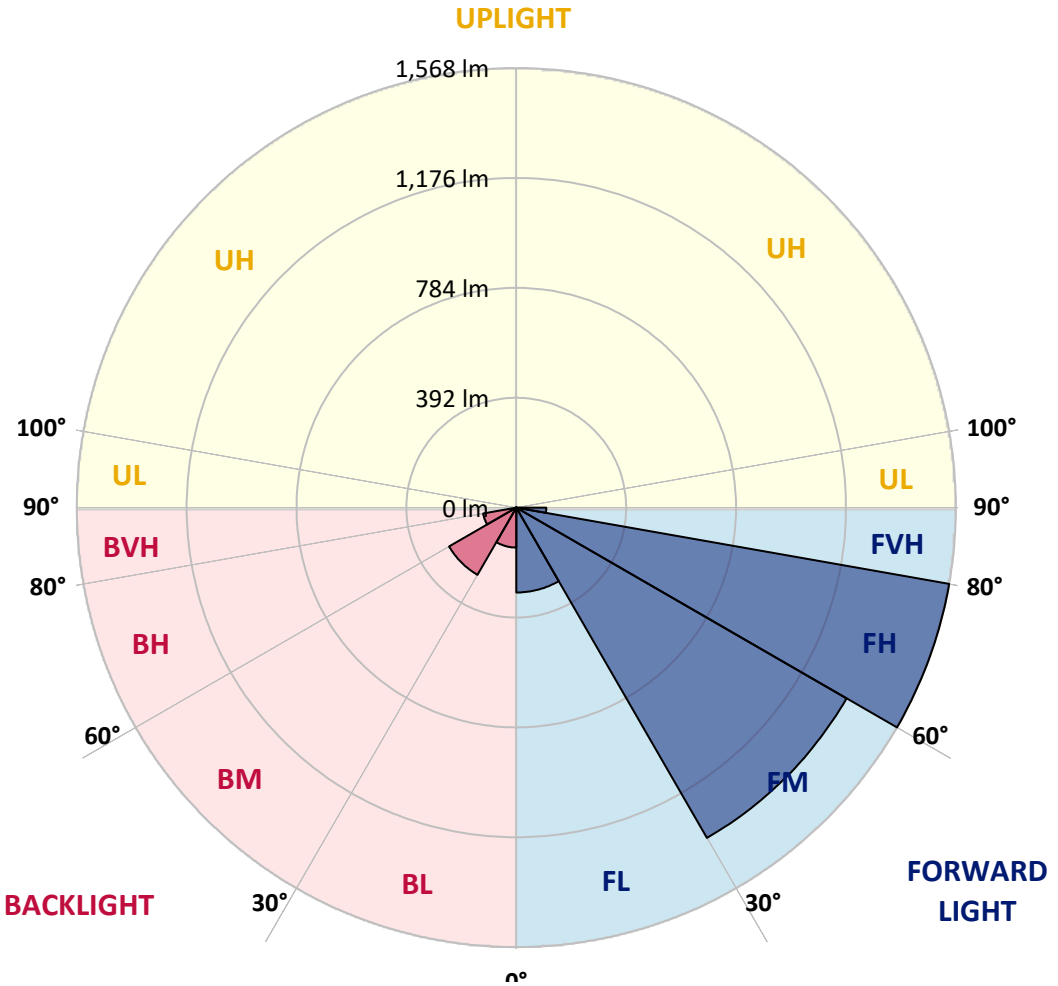
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	302.8	7.8			
FM	(30°-60°)	1360.6	35.0			
FH	(60°-80°)	1568.2	40.4			G1/1800
FVH	(80°-90°)	106.8	2.8			G2/225
BL	(0°-30°)	142.5	3.7	B1/500		
BM	(30°-60°)	276.8	7.1	B1/1000		
BH	(60°-80°)	120.0	3.1	B1/500		G1/500
BVH	(80°-90°)	4.3	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°	537.5	537.5	537.5	537.5	537.5	537.5	537.5	537.5	537.5	537.5	537.5
2.5°	607.3	596.9	590.8	575.5	560.3	548.0	531.4	520.4	507.3	494.7	483.5
5°	676.9	660.0	639.7	611.9	586.5	560.5	535.4	510.5	484.3	460.2	445.5
7.5°	735.7	711.4	675.5	638.6	606.3	575.0	545.6	512.7	480.8	443.1	423.1
10°	780.6	749.6	702.5	654.1	617.0	585.4	556.8	529.0	496.9	451.4	426.3
12.5°	807.9	774.7	718.8	662.2	619.6	584.3	562.1	549.8	537.3	492.1	462.7
15°	828.0	792.1	730.3	667.8	613.5	570.2	553.8	566.1	580.6	551.7	517.7
17.5°	848.8	811.1	745.3	670.2	596.9	542.6	535.7	567.5	600.9	599.6	565.9
20°	868.6	831.2	758.4	668.6	570.2	509.2	515.3	556.0	594.8	611.1	592.9
22.5°	891.3	851.8	771.0	662.4	535.4	477.9	497.2	537.8	571.8	591.0	585.4
25°	919.2	877.7	788.6	653.3	498.0	452.0	478.7	516.7	544.2	557.6	557.3
27.5°	949.1	908.7	812.2	648.5	467.7	433.5	457.8	491.5	516.1	525.5	525.5
30°	986.3	944.8	840.0	643.2	447.9	422.8	436.2	462.4	486.5	495.8	495.8
32.5°	1026.9	984.9	866.7	630.3	435.9	414.8	415.1	431.6	453.6	464.8	466.4
35°	1077.7	1033.1	895.4	602.3	426.3	405.4	394.5	402.5	420.7	434.0	437.5
37.5°	1150.2	1096.2	930.4	562.1	412.1	391.0	372.8	374.7	388.6	403.3	408.6
40°	1250.2	1181.0	971.6	520.4	391.8	370.7	349.0	348.2	358.4	372.8	378.7
42.5°	1385.6	1293.0	1021.0	480.6	372.3	346.1	323.9	322.5	330.5	343.1	349.3
45°	1564.2	1436.4	1081.8	446.3	357.0	322.0	300.1	299.5	306.2	317.2	323.6
47.5°	1792.8	1635.6	1142.5	423.1	349.0	303.0	280.5	281.6	287.5	297.4	301.9
50°	2088.9	1895.3	1160.9	411.3	349.0	292.8	263.2	268.5	273.3	280.8	283.5
52.5°	2443.8	2144.5	1099.9	400.6	351.1	294.2	248.4	259.9	263.4	269.8	270.9
55°	2772.7	2266.7	945.6	385.9	351.7	302.5	235.9	253.0	259.4	261.8	261.5
57.5°	2963.7	2224.7	764.6	361.0	349.5	308.1	227.8	244.4	256.7	258.3	255.9
60°	2927.3	2077.4	562.9	342.0	333.8	305.9	225.4	231.3	250.8	253.3	250.0
62.5°	2647.0	1830.3	390.7	327.3	299.0	296.6	224.6	210.7	238.0	243.9	239.3
65°	*2127.7*	*1440.9*	*276.0*	*281.9*	*262.1*	*276.3*	*220.4*	*189.3*	*222.5*	*230.5*	*223.6*
67.5°	1543.6	975.0	199.2	228.4	237.5	243.4	210.7	173.8	204.9	215.5	206.5
70°	990.6	526.6	139.9	150.8	200.0	206.7	194.2	159.9	186.9	199.2	189.3
72.5°	704.1	311.0	100.6	105.6	160.7	172.2	170.9	144.4	166.1	181.0	169.3
75°	485.9	171.4	67.9	75.4	116.6	139.9	131.8	124.1	140.7	155.9	144.4
77.5°	304.6	76.8	40.6	52.4	76.5	109.9	90.4	96.0	109.6	123.8	111.8
80°	169.6	29.7	22.7	34.8	41.7	80.0	50.0	61.8	80.8	90.9	81.3
82.5°	36.9	3.7	10.2	15.0	16.3	46.5	26.5	35.8	50.8	50.0	43.3
85°	0.0	0.0	1.9	2.1	1.1	20.1	9.6	11.8	16.6	15.5	11.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	537.5	537.5	537.5	537.5	537.5	537.5	537.5	537.5	537.5	537.5	537.5
2.5°	481.4	468.3	458.6	453.8	449.8	453.6	455.7	455.7	464.8	470.1	472.3
5°	436.2	412.6	394.7	382.7	375.5	377.9	380.6	383.5	395.0	402.7	407.8
7.5°	404.9	368.8	341.5	324.7	315.8	317.2	319.0	321.4	332.7	340.4	347.1
10°	399.0	347.1	308.6	286.4	275.7	273.8	272.8	272.0	278.7	284.5	289.9
12.5°	423.1	348.2	294.4	267.4	254.3	248.7	242.3	237.2	238.3	242.0	248.7
15°	466.1	361.8	289.9	257.5	241.2	231.9	224.4	218.2	216.9	218.2	219.3
17.5°	515.3	380.3	289.4	249.0	228.7	219.0	212.9	207.3	205.4	205.7	207.0
20°	548.0	395.0	287.8	239.3	216.6	208.1	202.7	197.1	195.2	195.8	196.0
22.5°	551.2	402.7	285.3	228.7	204.6	197.4	192.0	186.9	186.7	186.7	188.3
25°	533.8	402.7	280.3	219.0	193.1	186.7	181.9	175.7	176.8	177.3	179.4
27.5°	506.8	393.1	270.6	211.3	183.2	176.5	171.7	166.1	167.4	168.2	170.6
30°	480.0	380.8	259.1	202.4	173.8	166.1	162.6	157.8	158.3	159.4	162.1
32.5°	455.2	367.7	245.5	195.2	164.5	156.7	154.0	148.7	149.5	150.6	153.5
35°	430.6	353.3	229.5	186.7	155.9	148.2	146.0	139.9	140.4	142.0	145.2
37.5°	404.1	338.0	216.4	178.1	147.6	139.6	137.5	131.0	131.6	133.4	137.2
40°	376.3	323.1	203.5	169.0	138.8	130.8	128.9	121.9	122.5	124.6	128.6
42.5°	348.2	306.7	193.6	157.2	129.7	121.1	119.3	112.9	113.7	116.1	120.1
45°	322.3	287.2	187.2	144.1	121.1	111.5	109.6	103.8	105.4	108.0	112.1
47.5°	300.1	267.2	184.5	133.2	112.1	101.6	100.0	95.2	97.9	100.8	104.0
50°	281.1	247.9	181.0	121.9	103.5	93.1	91.5	88.3	91.7	94.7	97.6
52.5°	267.4	226.0	173.6	111.8	96.0	85.8	85.3	83.7	86.9	89.6	92.3
55°	255.7	203.2	161.5	103.0	89.3	79.7	80.2	79.4	82.1	84.2	86.6
57.5°	245.0	183.5	146.3	96.0	82.1	74.3	75.9	74.9	76.2	77.6	80.5
60°	232.1	163.4	128.1	88.3	73.5	69.0	70.9	67.9	67.7	68.2	69.0
62.5°	213.1	136.4	109.1	78.6	66.1	63.1	63.9	58.3	54.0	54.0	54.8
65°	*186.7*	*109.6*	*91.5*	*67.9*	*57.5*	*55.1*	*54.6*	*46.5*	*40.6*	*40.1*	*42.5*
67.5°	155.9	90.1	75.9	57.2	47.9	46.3	46.8	40.9	35.0	34.5	37.2
70°	127.0	74.6	61.2	45.7	36.9	38.5	40.9	35.0	29.4	28.6	31.0
72.5°	103.2	59.4	47.9	35.0	27.3	31.8	34.8	28.6	23.3	22.7	24.9
75°	79.7	43.6	34.2	23.8	19.8	24.6	27.3	20.9	16.6	15.8	17.7
77.5°	53.2	27.0	19.3	15.0	11.8	16.8	18.2	11.0	9.6	9.4	10.7
80°	32.4	12.6	8.3	7.2	4.0	6.2	7.2	4.5	5.1	5.3	6.4
82.5°	16.3	3.5	1.3	0.3	0.0	0.0	2.1	1.1	2.1	2.7	4.0
85°	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.3	2.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
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°	537.5	537.5	537.5	537.5	537.5	537.5	537.5	537.5	537.5	537.5	537.5
2.5°	487.3	498.5	509.2	526.3	544.0	561.3	579.0	596.1	602.3	606.8	617.0
5°	431.1	452.2	476.8	510.8	547.2	584.6	622.6	657.3	673.1	683.8	707.9
7.5°	373.1	400.6	435.9	487.0	544.0	603.6	663.2	718.0	743.5	764.0	800.7
10°	315.6	345.5	390.2	448.5	525.5	611.1	693.4	768.9	801.8	827.7	877.4
12.5°	265.0	293.1	339.9	404.4	496.6	605.2	710.8	801.5	840.3	869.4	924.0
15°	229.5	249.2	290.7	360.2	462.4	586.2	711.9	817.0	859.5	890.0	937.3
17.5°	209.7	216.4	243.4	315.3	424.4	561.3	702.0	822.3	867.8	896.2	929.0
20°	199.0	200.0	207.5	257.0	375.7	538.1	692.6	827.7	875.6	899.4	909.3
22.5°	190.4	190.4	192.3	210.2	312.9	510.3	689.7	837.1	886.3	901.0	880.6
25°	182.7	182.7	183.2	188.0	247.9	467.7	687.8	851.5	901.0	905.0	849.1
27.5°	174.6	174.9	174.9	177.6	199.8	410.0	679.8	870.2	918.6	910.3	818.9
30°	166.6	167.1	167.1	169.0	176.8	342.3	664.0	892.7	941.6	917.3	788.9
32.5°	158.6	159.1	159.1	160.7	166.3	273.3	644.2	913.3	964.9	920.2	761.1
35°	150.3	151.1	150.6	152.7	158.6	217.4	619.1	933.9	990.0	929.6	747.5
37.5°	142.0	142.5	142.3	144.4	151.1	187.7	589.9	949.4	1024.3	950.4	763.8
40°	133.7	133.4	133.4	135.9	143.1	179.2	553.3	974.0	1073.5	987.1	834.9
42.5°	125.2	125.2	124.6	127.3	136.1	172.8	518.3	1018.1	1145.1	1045.4	961.1
45°	117.4	117.1	116.1	118.5	129.4	161.5	506.0	1100.5	1251.0	1139.8	1113.8
47.5°	109.9	109.6	107.0	109.1	121.4	151.4	552.0	1235.3	1397.9	1278.6	1256.9
50°	103.2	103.5	98.4	100.3	113.4	143.6	651.7	1410.2	1592.8	1465.5	1392.5
52.5°	97.1	97.1	90.4	91.5	103.5	136.7	746.7	1599.8	1850.1	1726.3	1550.6
55°	90.9	90.4	82.9	83.4	93.6	126.8	760.8	1784.8	2200.9	2118.6	1766.6
57.5°	84.0	82.9	75.9	75.9	84.5	119.5	659.5	1927.1	2636.3	2695.2	2078.2
60°	75.4	74.6	70.1	68.7	77.3	126.0	465.3	1943.7	2917.1	3461.9	2674.8
62.5°	64.5	65.5	63.1	61.2	70.3	130.8	275.7	1810.2	2849.2	3705.8	3389.4
65°	*50.8*	*55.1*	*54.6*	*53.2*	*77.3*	*110.2*	*162.9*	*1554.0*	*2640.9*	*3508.9*	*3243.6*
67.5°	43.3	46.3	45.5	45.5	81.0	83.7	102.4	1214.1	2354.2	3275.5	2897.3
70°	36.9	39.8	36.9	36.9	61.2	50.8	70.9	847.8	2044.8	3017.1	2670.0
72.5°	30.5	33.4	30.2	28.1	48.9	38.0	51.9	529.8	1751.1	2748.1	2514.4
75°	23.3	26.7	24.3	21.7	32.4	28.3	39.3	307.8	1450.8	2351.2	2292.7
77.5°	14.7	19.3	18.2	15.2	23.8	20.6	28.3	183.2	1119.5	1837.2	1972.0
80°	9.1	9.9	10.2	9.6	13.6	13.9	19.3	104.3	766.2	1280.5	1540.7
82.5°	5.9	5.9	4.5	5.1	6.7	8.0	11.0	39.3	450.4	779.6	1072.4
85°	4.3	3.7	2.4	2.4	3.2	4.0	4.3	12.0	182.7	307.8	419.3
87.5°	2.1	1.9	0.8	1.1	1.6	1.3	1.1	0.5	46.0	98.4	69.0
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: P1201620
CATALOG NUMBER: GWC-SB1B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	537.5	537.5	*537.5*	537.5	537.5	537.5	537.5	537.5
2.5°	622.3	630.6	*631.1*	631.1	623.9	623.6	608.9	607.3
5°	732.8	738.1	*739.4*	736.8	722.3	711.6	683.0	676.9
7.5°	833.8	844.5	*844.5*	838.1	814.6	792.7	751.2	735.7
10°	914.6	926.9	*924.2*	911.1	881.4	851.2	801.0	780.6
12.5°	953.9	966.5	*959.5*	944.6	915.7	883.9	830.9	807.9
15°	953.1	949.6	*942.4*	940.5	926.6	902.6	853.1	828.0
17.5°	919.2	889.7	*884.1*	902.8	920.5	914.6	872.4	848.8
20°	865.4	814.1	*809.0*	844.8	895.1	920.8	890.3	868.6
22.5°	808.7	753.3	*741.6*	781.2	856.8	922.6	913.0	891.3
25°	755.0	699.3	*687.6*	724.5	814.3	919.4	937.6	919.2
27.5°	710.0	656.3	*645.3*	682.2	773.4	910.3	962.2	949.1
30°	675.3	625.5	*617.5*	653.1	738.1	899.1	993.5	986.3
32.5°	654.9	618.6	*621.5*	650.7	719.1	886.8	1023.5	1026.9
35°	675.0	676.6	*702.3*	714.3	736.8	884.9	1064.1	1077.7
37.5°	774.7	830.4	*883.6*	873.7	823.1	906.6	1124.8	1150.2
40°	944.6	1058.8	*1145.1*	1107.4	980.1	972.9	1212.3	1250.2
42.5°	1152.1	1345.7	*1488.0*	1386.9	1182.6	1089.0	1337.1	1385.6
45°	1371.1	1699.5	*1923.6*	1713.4	1398.4	1251.6	1526.2	1564.2
47.5°	1601.9	2129.5	*2419.4*	2075.5	1598.4	1436.6	1784.0	1792.8
50°	1854.4	2601.0	*2924.9*	2437.4	1791.5	1648.7	2099.1	2088.9
52.5°	2094.8	3085.9	*3419.6*	2800.8	1961.1	1911.9	2464.6	2443.8
55°	2324.2	3570.4	*3917.3*	3150.0	2121.0	2259.5	2898.9	2772.7
57.5°	2590.3	4006.1	*4430.2*	3500.9	2344.6	2710.9	3384.6	2963.7
60°	2983.7	4501.1	*5010.3*	3981.8	2769.8	3185.3	3558.7	2927.3
62.5°	3485.9	4956.3	*5432.0*	4453.0	3196.8	3274.7	3302.2	2647.0
65°	*3583.6*	*5071.5*	*5455.8*	*4578.9*	*3141.8*	*2777.8*	*2696.0*	*2127.7*
67.5°	3324.7	4863.2	*5123.1*	4344.4	2779.1	2146.7	2023.1	1543.6
70°	3034.3	4466.1	*4543.4*	3945.7	2444.3	1578.9	1366.3	990.6
72.5°	2736.6	3936.3	*3776.4*	3426.6	2148.3	1149.7	985.5	704.1
75°	2383.1	3239.6	*2974.6*	2847.1	1778.7	902.3	713.0	485.9
77.5°	1908.4	2280.4	*2209.5*	2206.8	1336.6	659.2	475.8	304.6
80°	1346.2	1480.0	*1443.9*	1662.1	896.7	478.2	286.4	169.6
82.5°	651.7	818.3	*840.0*	989.8	436.2	281.3	66.1	36.9
85°	255.1	394.7	*332.9*	375.7	122.5	78.4	1.6	0.0
87.5°	28.6	45.7	*42.0*	33.2	15.0	3.2	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

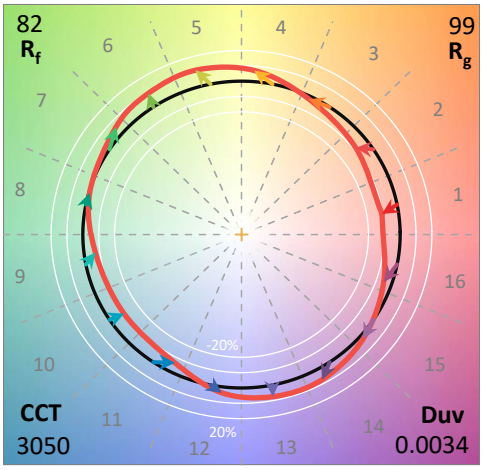
Test Information

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

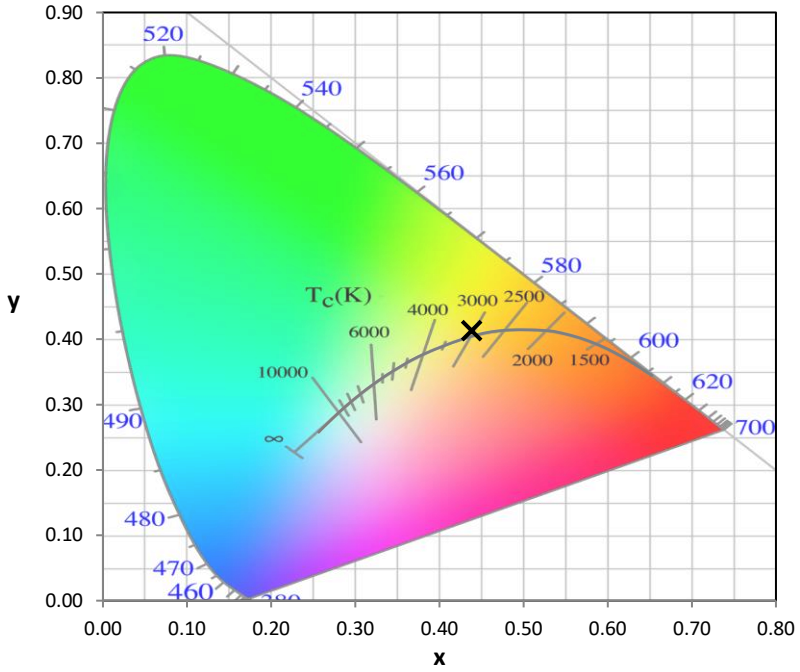
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

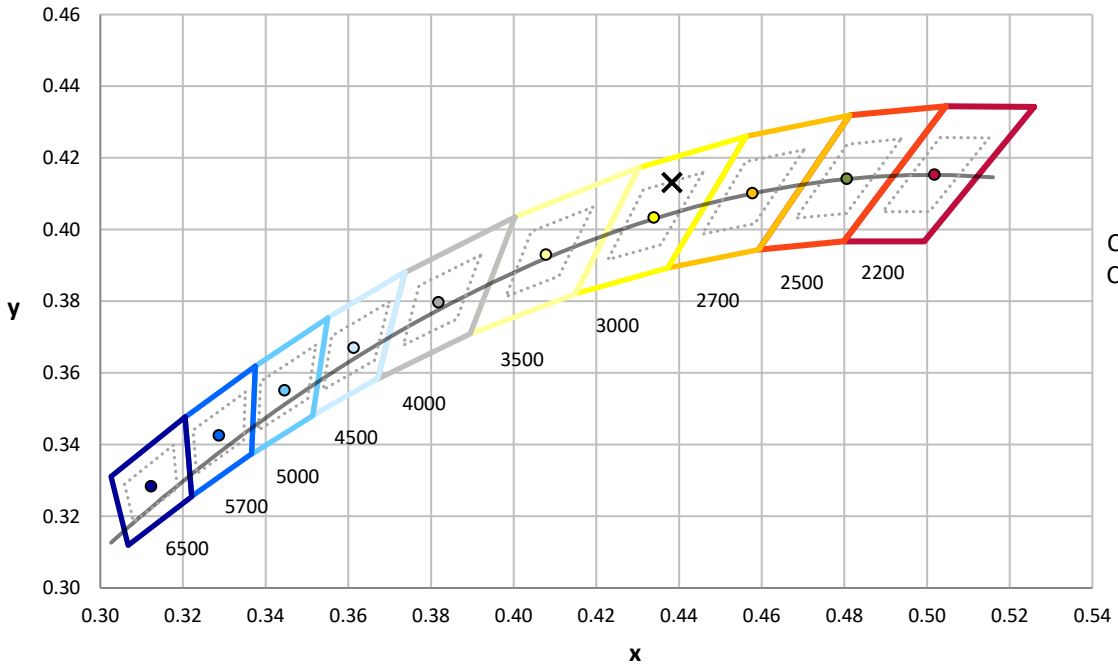
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

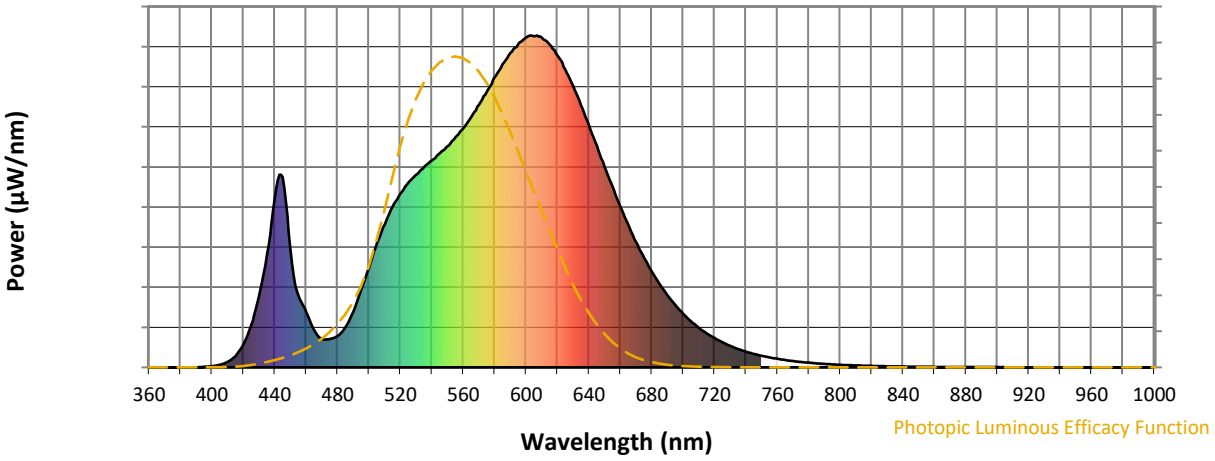


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

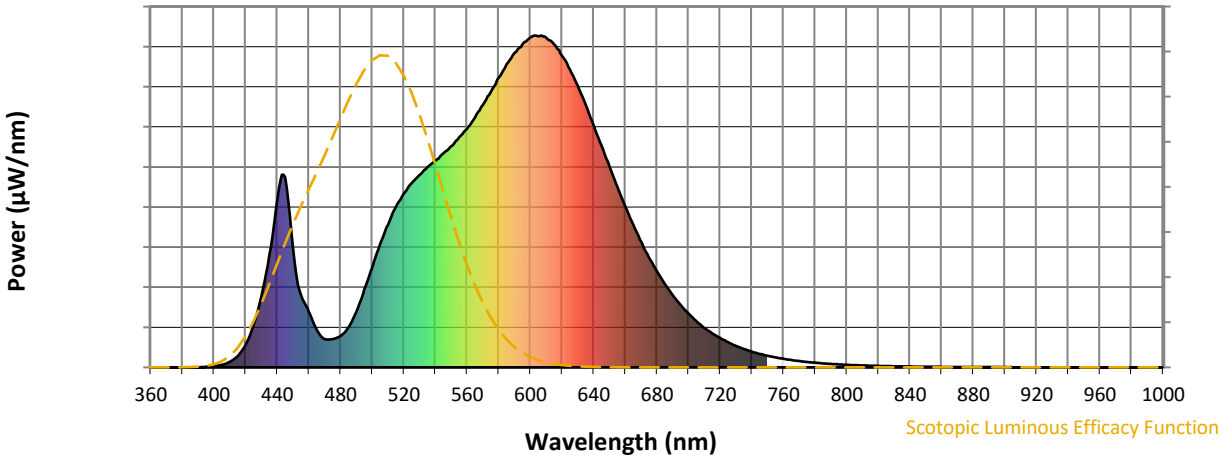


Photopic Lumens: NR

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

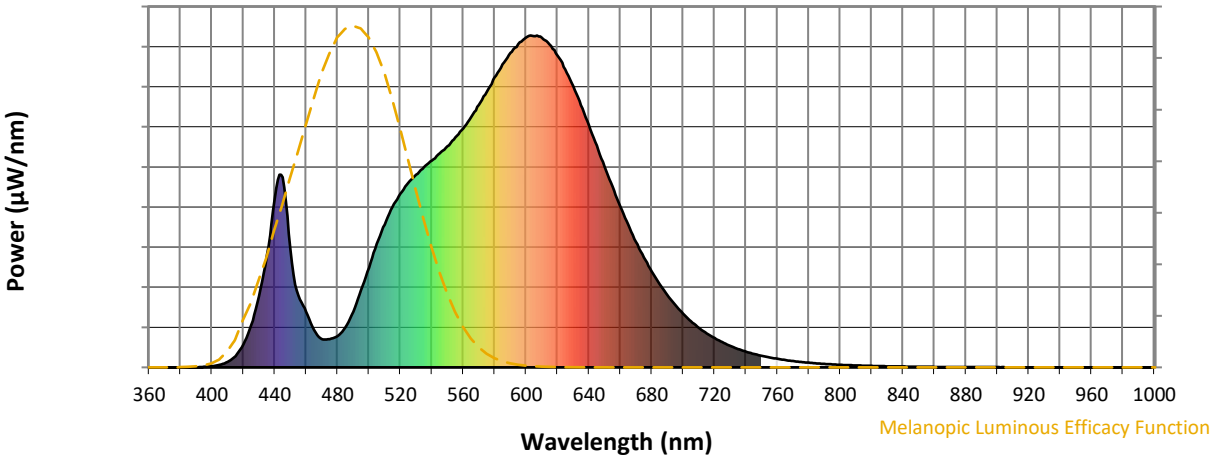


Scotopic Lumens: NR **S/P: 1.27**

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			

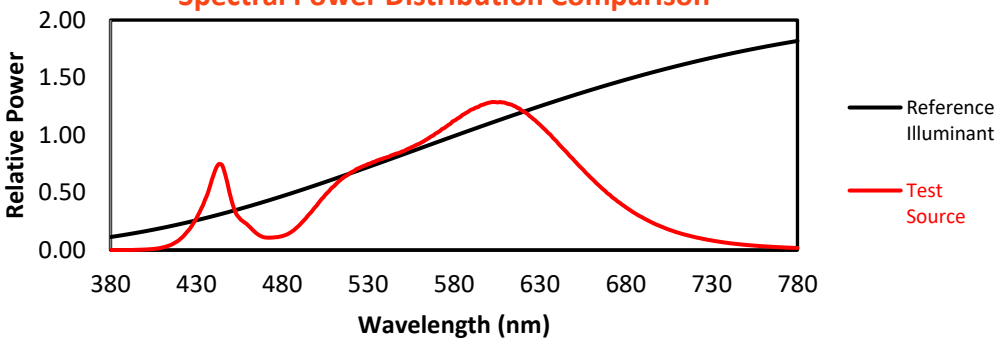
REPORT NUMBER: SP1-2408-195-9

TM-30-18

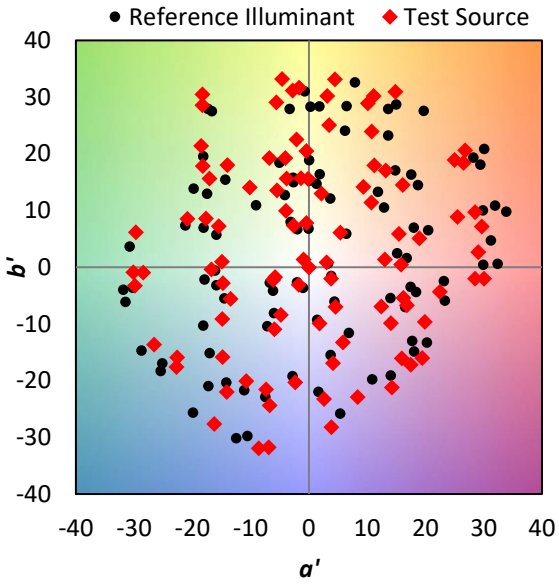
Summary

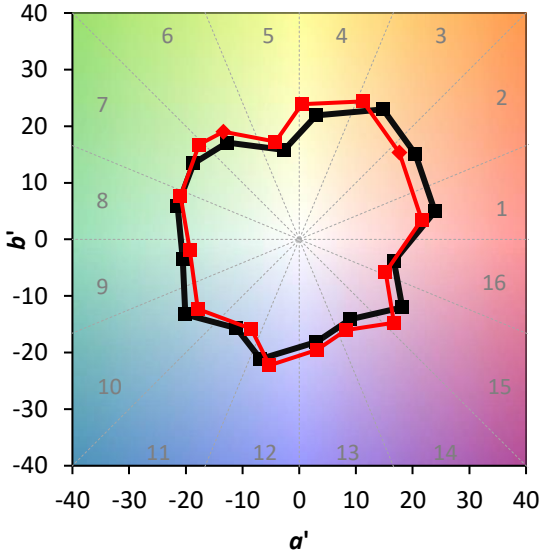
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R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

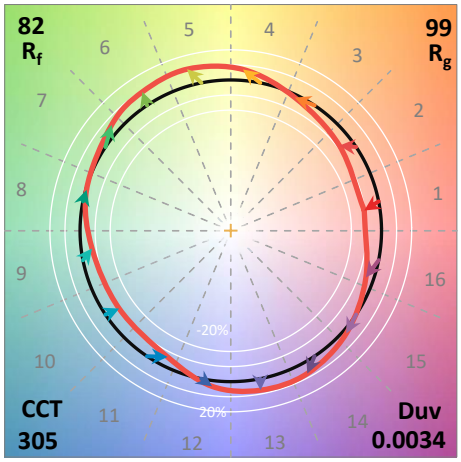
Spectral Power Distribution Comparison

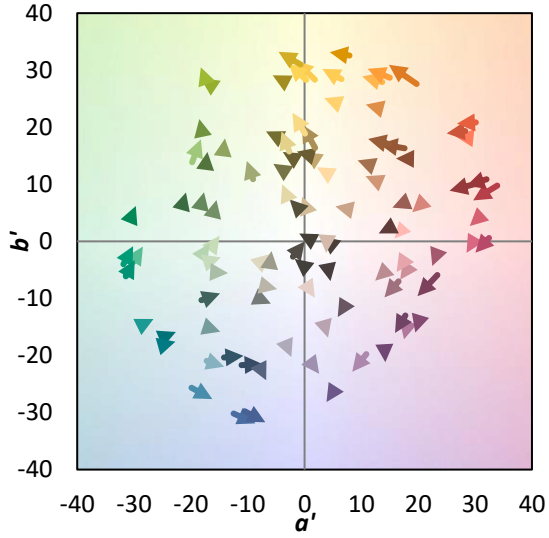


Color Vector Graphics







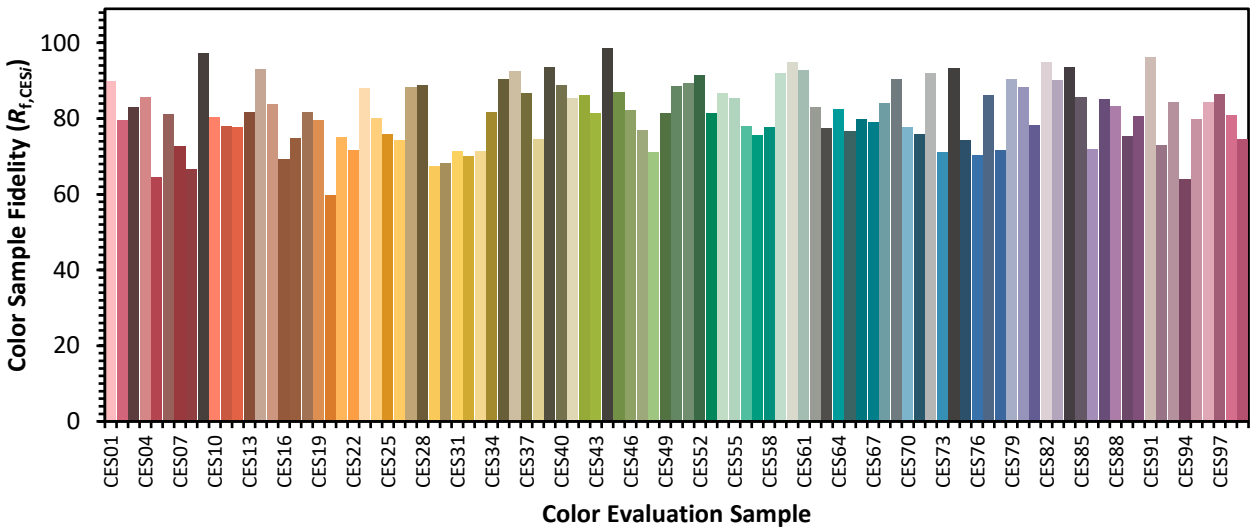


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

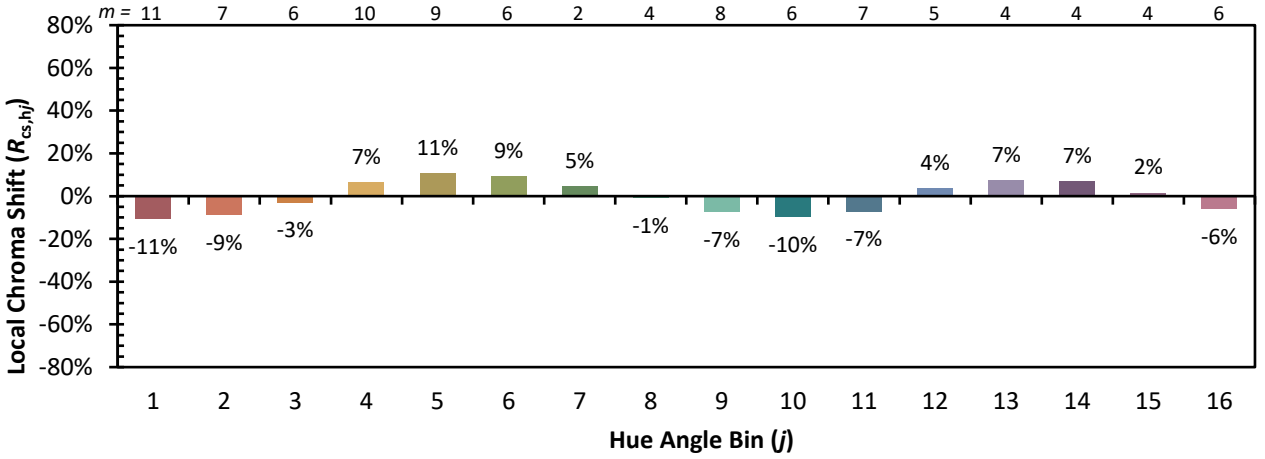
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CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 94
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	

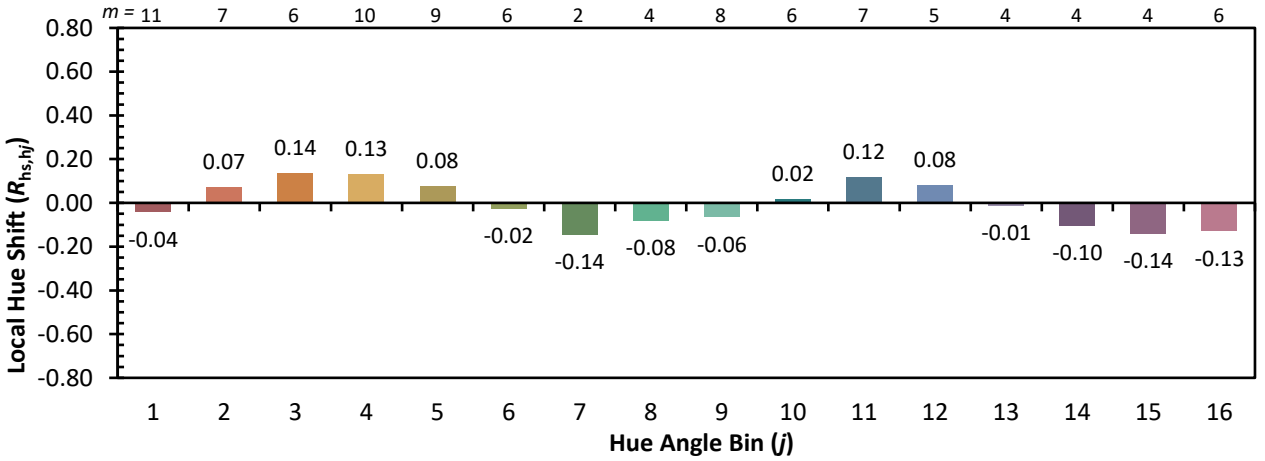


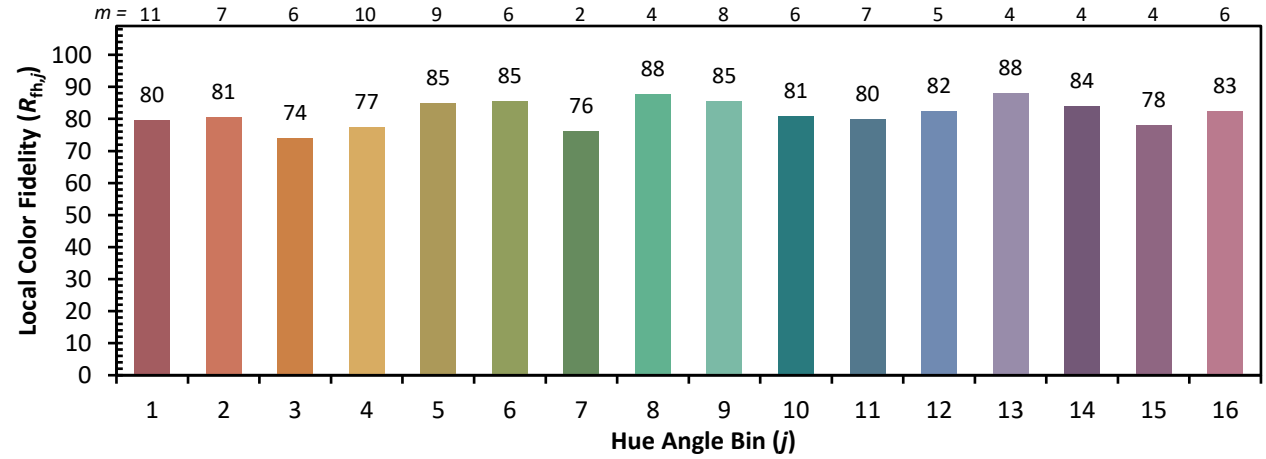
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Color Rendition by Hue-Angle Bin



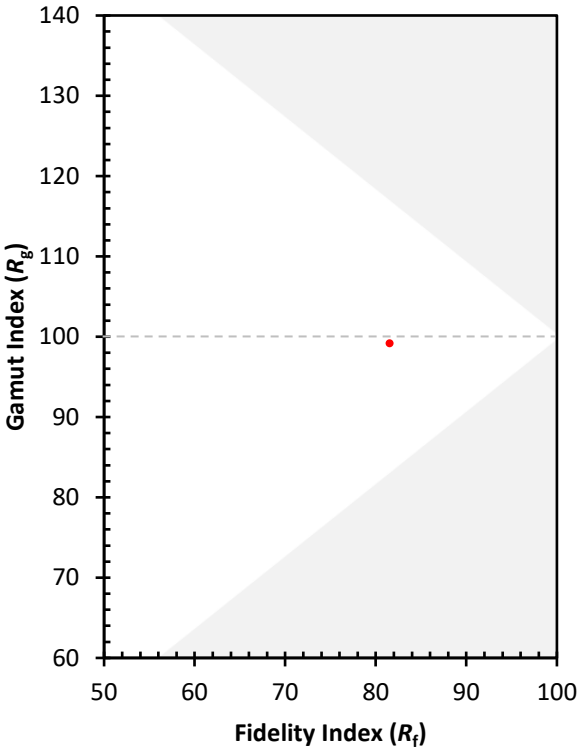


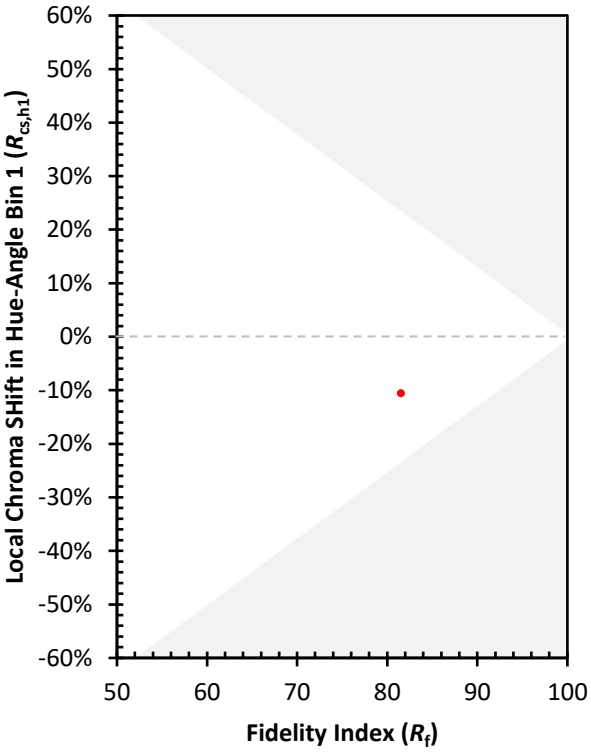


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Measure Comparisons





(END OF REPORT)