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: P324327

Luminaire Tested: **GLEON-SA3C-830-U-SLL-HSS**

Issue Date: 3/3/2020

Report Generated By E0585644

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P324327
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA3C-830-U-SLL-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	12721 lumens
Efficiency:	N/A
Efficacy:	76.6 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B1 - U0 - G2

Input Watts (W):	166
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:	24 FT

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REPORT NUMBER: P324327
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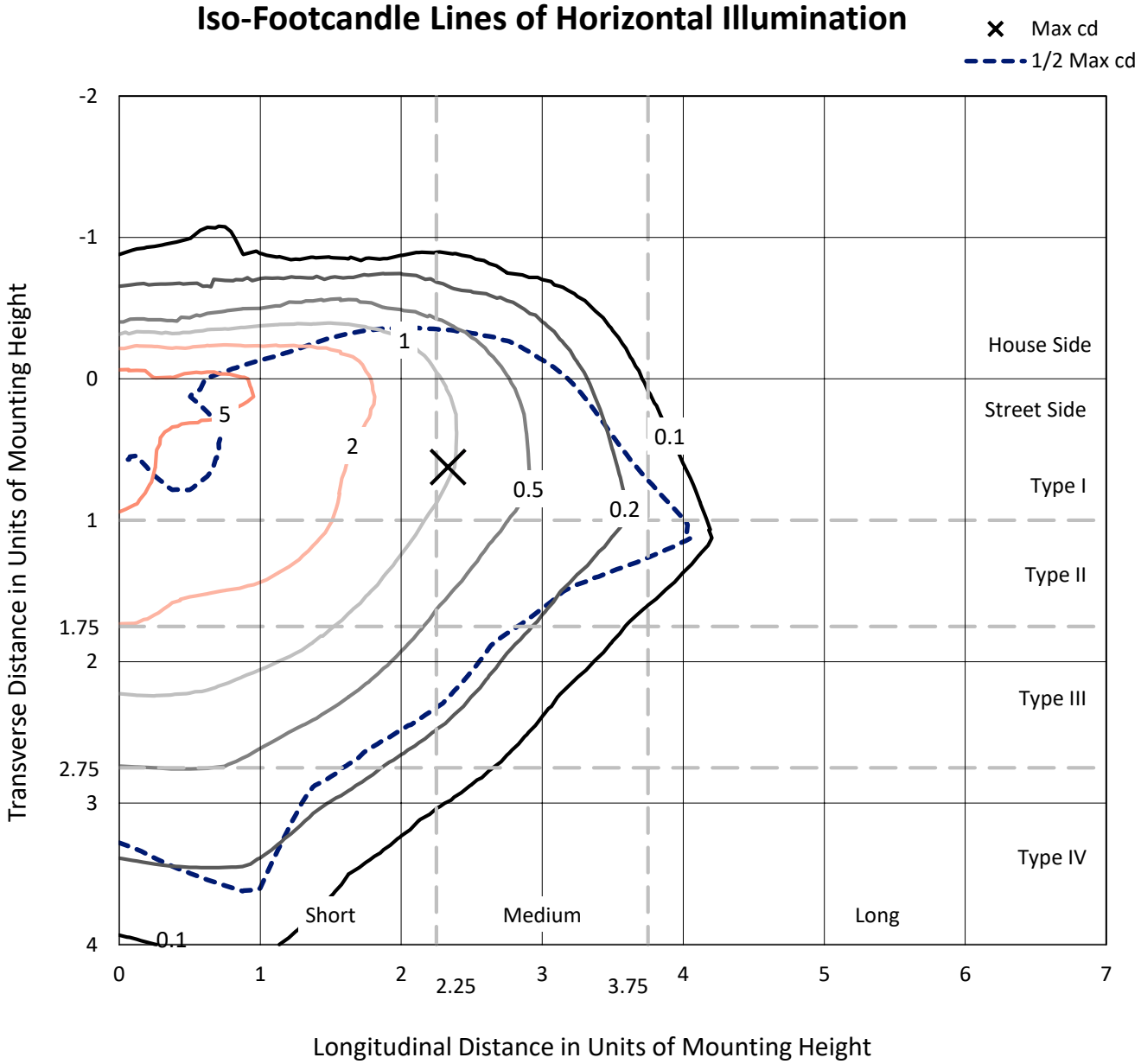
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
Type III - Medium - N/A

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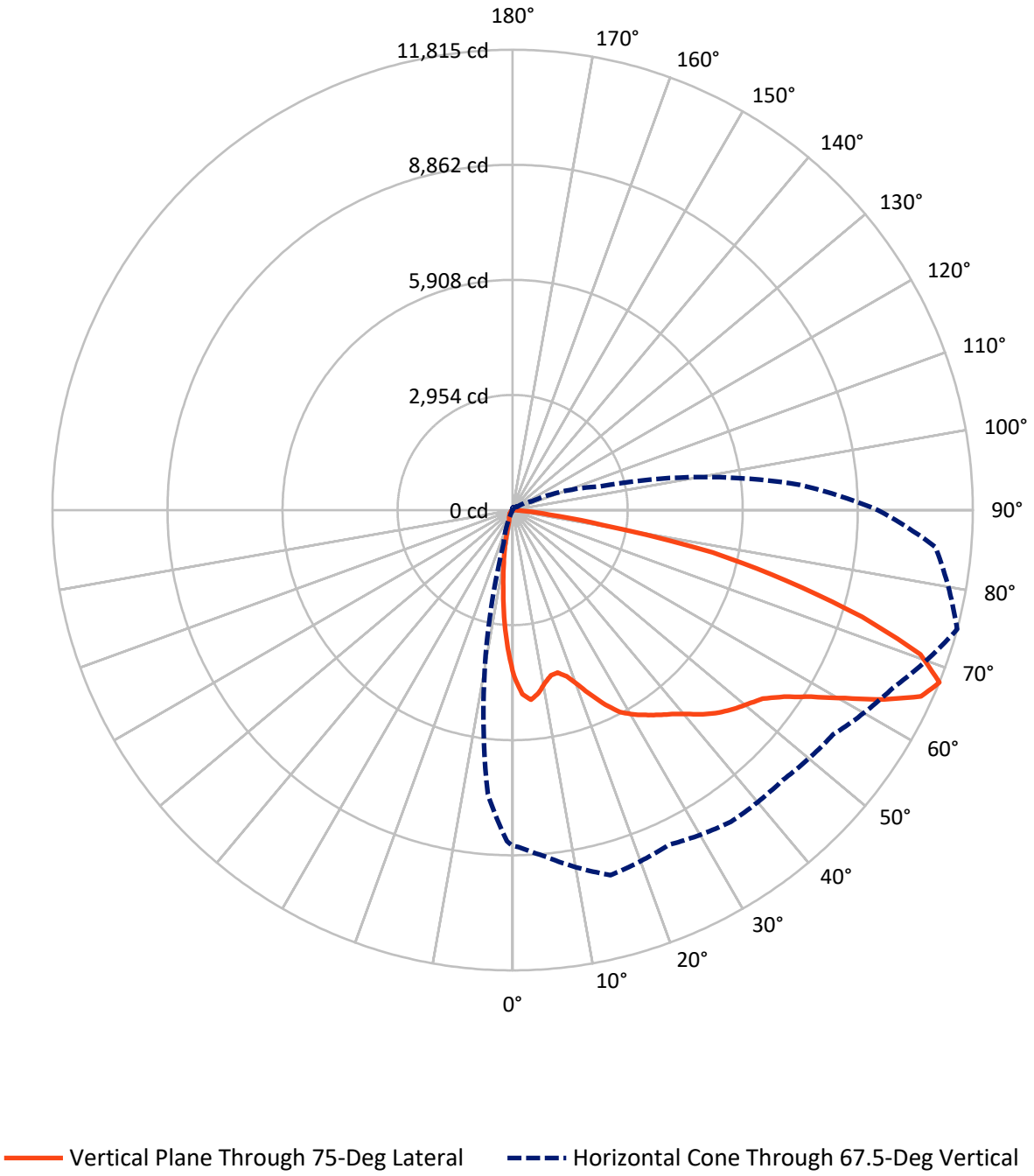
Luminous Intensity Polar Plot



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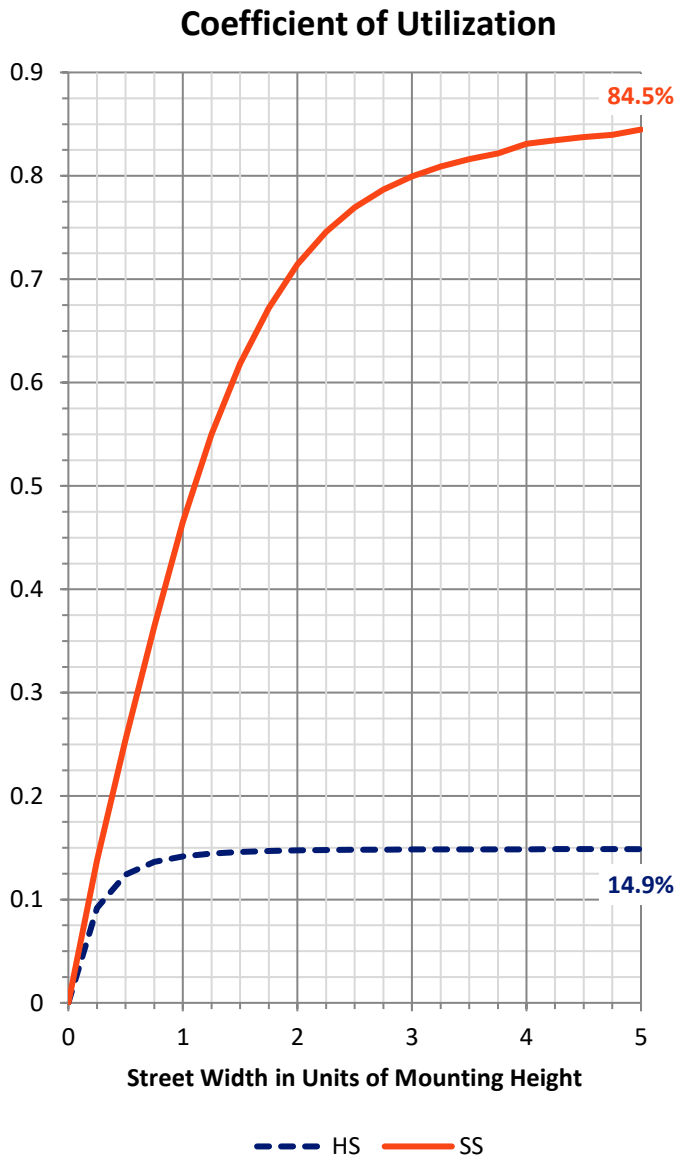
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1908.9	0.0	1908.9
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	10812.1	0.0	10812.1
	% Fixture	85.0	0.0	85.0
Total	Lumens	12721.0	0.0	12721.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.7	2.5
10°-20°	637.4	5.0
20°-30°	901.8	7.1
30°-40°	1325.8	10.4
40°-50°	1905.7	15.0
50°-60°	2682.7	21.1
60°-70°	3133.1	24.6
70°-80°	1598.4	12.6
80°-90°	212.3	1.7
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°	12721.0	100.0
0°-180°	12721.0	100.0



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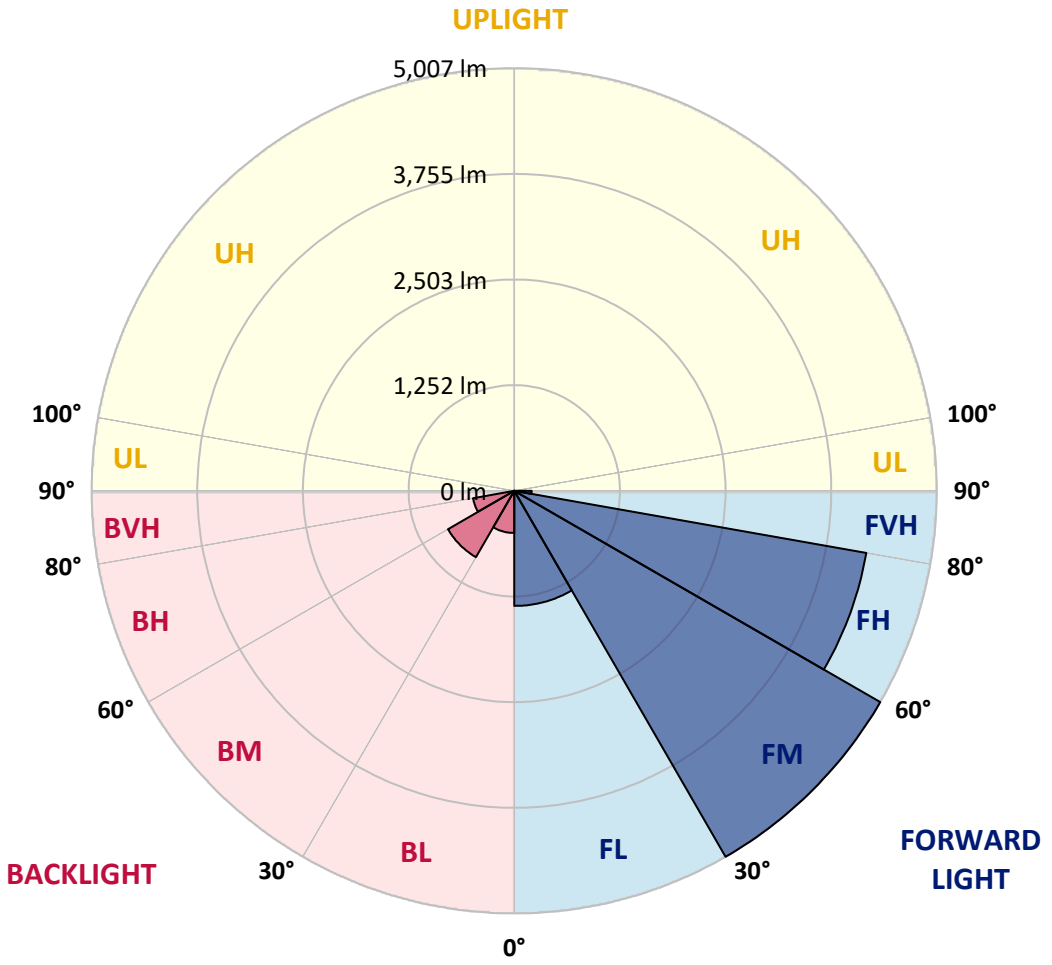
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1363.7	10.7			
FM	(30°-60°)	5006.8	39.4			
FH	(60°-80°)	4235.7	33.3			G2/5000
FVH	(80°-90°)	205.9	1.6			G2/225
BL	(0°-30°)	499.2	3.9	B1/500		
BM	(30°-60°)	907.4	7.1	B1/1000		
BH	(60°-80°)	495.8	3.9	B1/500		G1/500
BVH	(80°-90°)	6.4	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 III Medium



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CATALOG NUMBER: GLEON-SA3C-830-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4267.7	4267.7	4267.7	4267.7	4267.7	4267.7	4267.7	4267.7	4267.7	*4267.7*	4267.7
2.5°	4626.2	4633.5	4670.8	4757.6	4852.2	4859.4	4923.3	4857.6	4835.3	*4729.3*	4619.6
5°	4661.2	4688.9	4817.3	5072.2	5293.3	5364.4	5415.0	5286.1	5150.5	*4891.4*	4614.8
7.5°	4379.8	4426.2	4628.0	5106.5	5501.8	5676.6	5709.7	5507.8	5175.8	*4749.2*	4333.4
10°	4019.4	4072.4	4315.9	4904.0	5447.0	5746.5	5792.3	5527.7	5050.5	*4519.0*	4029.0
12.5°	3727.7	3789.8	4038.7	4676.2	5258.4	5589.8	5680.2	5460.8	4942.0	*4355.7*	3821.1
15°	3593.4	3664.5	3926.0	4529.2	5049.3	5310.2	5384.9	5290.3	4881.7	*4329.7*	3772.9
17.5°	3670.5	3747.6	4017.6	4541.9	4852.8	4964.3	5024.6	5063.1	4881.7	*4485.8*	3913.9
20°	3986.9	4070.0	4355.7	4670.2	4690.1	4648.5	4713.0	4848.6	4938.4	*4782.3*	4252.6
22.5°	4424.4	4522.0	4844.4	4890.2	4610.6	4453.3	4461.7	4674.4	5041.4	*5158.3*	4722.6
25°	4957.7	5077.0	5404.8	5218.0	4643.7	4337.0	4334.0	4531.0	5142.1	*5535.0*	5246.3
27.5°	5487.4	5618.7	5906.8	5618.1	4780.5	4315.9	4309.9	4487.6	5240.3	*5870.0*	5818.2
30°	5931.5	6059.2	6307.5	5908.0	4928.1	4365.3	4336.4	4534.0	5298.7	*6087.6*	6235.2
32.5°	6293.0	6395.5	6596.2	6107.4	5086.0	4461.1	4398.4	4658.2	5398.2	*6271.4*	6618.5
35°	6690.8	6798.6	6878.8	6297.3	5263.2	4599.1	4509.3	4855.2	5551.2	*6458.2*	7038.5
37.5°	7144.5	7251.8	7242.2	6470.8	5488.0	4827.5	4770.3	5167.4	5789.3	*6643.2*	7507.3
40°	7588.7	7698.3	7620.0	6660.6	5751.9	5204.1	5161.9	5636.2	6108.0	*6880.0*	8056.9
42.5°	8004.5	8123.2	7955.6	6840.2	6066.5	5679.0	5751.3	6240.0	6507.0	*7171.7*	8530.5
45°	8339.5	8460.6	8237.1	7015.0	6397.9	6255.1	6472.6	6908.9	6986.7	*7418.1*	8850.5
47.5°	8583.0	8697.5	8432.3	7189.7	6822.1	6959.5	7338.6	7610.4	7419.9	*7632.0*	9077.7
50°	8738.4	8827.6	8489.6	7408.5	7378.9	7781.5	8240.7	8373.3	7827.9	*7824.9*	9353.7
52.5°	8837.3	8877.6	8531.7	7636.9	7959.9	8676.4	9124.1	9165.7	8247.9	*8037.0*	9725.5
55°	9177.7	9210.3	8830.6	7913.5	8440.1	9460.4	9923.2	9884.6	8723.4	*8452.2*	10164.2
57.5°	9758.7	9793.0	9448.3	8311.2	8828.8	9944.9	10502.3	10571.6	9280.8	*9035.5*	10634.2
60°	10050.3	10114.2	9991.3	8815.0	9205.5	10254.6	10897.0	11118.1	9977.4	*9804.5*	11089.8
62.5°	9785.8	9878.6	10056.9	9373.6	9579.7	10425.1	11019.9	11314.0	10690.9	*10700.5*	11370.6
65°	9257.9	9332.0	9634.5	9679.7	9796.6	10404.0	10716.2	11040.4	11127.8	*11523.7*	11355.6
67.5°	*8620.3*	*8648.0*	*8904.8*	*9703.8*	*9482.1*	*9770.1*	*9803.8*	*10043.7*	*10782.5*	*11815.4*	*10899.4*
70°	7702.6	7717.6	7941.8	8896.9	8148.5	8211.8	8161.7	8210.5	9269.9	*11104.9*	9747.8
72.5°	6199.0	6237.0	6555.8	7388.6	5936.3	5753.7	6146.6	6124.9	7139.1	*9382.0*	7239.7
75°	4564.2	4629.8	5111.3	5951.4	4166.4	3768.7	4055.6	4132.1	5075.2	*7257.2*	4527.4
77.5°	3195.6	3244.4	3710.9	4374.9	3015.5	2694.9	2591.2	2682.2	3349.9	*5249.9*	2280.9
80°	1841.0	1859.0	2156.7	2526.1	2032.0	2324.9	2106.1	2168.8	2007.3	*2335.7*	981.0
82.5°	1204.6	1207.6	1323.9	1503.5	1265.5	1470.4	1088.3	1391.4	1234.7	*938.3*	319.4
85°	650.8	654.4	767.7	1067.2	716.5	405.0	238.0	488.7	763.5	*215.1*	87.4
87.5°	71.7	65.7	231.4	388.1	198.9	36.8	12.7	54.8	122.3	*13.9*	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°	4267.7	4267.7	4267.7	4267.7	4267.7	4267.7	4267.7	4267.7	4267.7	4267.7	4267.7
2.5°	4563.6	4513.5	4388.8	4256.8	4150.8	4051.3	3951.3	3829.0	3734.4	3715.1	3683.7
5°	4465.9	4307.5	4045.9	3783.2	3571.7	3304.7	3135.4	3003.4	2874.4	2866.6	2840.7
7.5°	4124.9	3916.4	3548.2	3184.8	2887.1	2632.8	2376.1	2204.3	2069.4	2021.8	1993.4
10°	3797.0	3562.6	3102.8	2688.2	2422.5	2197.7	2016.9	1837.4	1674.7	1562.6	1511.9
12.5°	3568.0	3308.9	2802.1	2444.8	2254.4	2041.0	1820.5	1596.3	1408.9	1273.9	1191.4
15°	3479.5	3202.9	2701.5	2348.4	2113.4	1843.4	1561.4	1305.3	1097.4	975.0	900.9
17.5°	3584.9	3263.1	2693.7	2230.9	1902.4	1566.8	1255.2	952.7	756.9	664.1	616.5
20°	3852.5	3454.8	2690.6	2086.8	1651.8	1239.0	850.3	626.7	508.0	456.2	433.9
22.5°	4230.9	3699.4	2714.8	1944.6	1390.8	885.2	586.9	460.4	399.5	371.8	359.2
25°	4717.8	4042.9	2782.8	1815.7	1145.6	660.5	457.4	385.7	342.9	321.2	312.2
27.5°	5236.7	4438.2	2888.9	1703.6	946.1	526.7	391.7	330.2	299.5	284.4	276.0
30°	5664.5	4896.2	2996.2	1578.8	801.5	459.2	358.6	301.3	265.8	256.1	248.3
32.5°	6038.7	5242.7	3072.1	1466.1	706.9	408.0	324.2	269.4	245.3	226.6	218.1
35°	6426.2	5531.3	3069.7	1387.2	641.8	369.4	295.3	241.0	212.1	190.4	183.8
37.5°	6845.6	5857.4	3017.3	1319.7	613.5	338.7	279.0	226.0	197.1	175.4	166.9
40°	7336.8	6199.6	2963.6	1256.4	605.6	314.0	267.6	213.9	183.2	162.1	153.7
42.5°	7815.2	6508.2	2916.6	1209.4	571.9	313.4	257.3	204.9	172.3	151.9	142.2
45°	8197.9	6795.6	2907.6	1181.1	536.3	324.2	251.9	198.9	163.9	143.4	134.4
47.5°	8516.1	7107.8	2965.4	1161.2	502.6	295.9	265.1	194.6	156.1	136.2	125.9
50°	8894.5	7491.0	3101.6	1128.7	467.0	266.4	303.7	195.8	149.4	129.0	118.1
52.5°	9422.4	8021.3	3301.7	1073.8	418.2	239.2	298.9	197.1	142.2	121.1	110.3
55°	10014.2	8683.6	3516.8	982.9	350.1	203.7	256.1	188.6	128.4	112.7	102.4
57.5°	10636.1	9284.4	3644.6	874.4	278.4	176.0	204.9	171.7	113.3	101.2	94.6
60°	10733.7	9512.8	3586.1	741.2	221.2	153.1	151.9	174.8	101.2	89.2	84.4
62.5°	10490.8	9225.9	3303.5	622.5	185.0	134.4	124.7	152.5	91.6	79.5	74.7
65°	10023.8	8450.4	2845.5	561.0	171.7	115.1	103.6	107.3	80.1	69.3	65.1
67.5°	*9374.2*	*7415.1*	*2336.3*	*526.1*	*169.9*	*98.8*	*88.6*	*81.4*	*69.3*	*60.3*	*56.6*
70°	8046.0	6177.3	1863.9	506.8	165.1	83.2	74.7	66.3	57.9	51.2	48.2
72.5°	5921.8	4377.4	1449.9	485.7	166.3	66.3	65.1	54.8	46.4	39.8	38.6
75°	3421.6	2500.8	950.9	393.5	158.5	51.2	54.2	38.6	32.5	27.7	27.7
77.5°	1823.5	1525.2	362.2	163.9	57.9	32.5	30.7	22.9	20.5	16.9	16.3
80°	794.8	671.3	109.1	45.8	31.9	17.5	11.4	10.2	9.0	7.2	6.6
82.5°	281.4	242.9	35.6	22.3	13.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	63.9	45.8	0.0	5.4	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4267.7	4267.7	4267.7	4267.7	4267.7	4267.7	4267.7	4267.7	4267.7	4267.7	4267.7
2.5°	3619.9	3606.6	3528.3	3531.3	3545.1	3565.0	3518.0	3539.7	3598.2	3654.2	3675.3
5°	2799.1	2802.1	2754.5	2784.1	2810.6	2828.6	2752.7	2753.9	2800.3	2863.6	2896.7
7.5°	1972.3	1967.5	1969.9	2040.4	2090.5	2054.3	2082.6	1984.4	1990.4	2035.6	2001.9
10°	1466.1	1399.9	1362.5	1415.5	1470.4	1450.5	1401.7	1369.7	1392.0	1442.0	1438.4
12.5°	1152.2	1057.0	1000.9	963.0	1008.2	970.8	969.6	941.9	911.7	917.2	997.3
15°	866.6	797.3	731.0	670.1	668.9	656.2	591.8	519.4	513.4	517.0	558.6
17.5°	596.0	572.5	545.4	492.9	479.1	426.0	363.4	334.4	320.0	326.6	340.5
20°	418.8	409.8	412.8	384.5	364.6	314.0	277.2	265.8	263.3	270.0	276.6
22.5°	347.1	330.8	329.0	316.4	296.5	259.7	239.8	233.2	230.2	236.2	241.0
25°	303.7	287.4	280.8	273.0	251.9	226.6	214.5	208.5	205.5	209.1	212.1
27.5°	267.6	252.5	246.5	241.0	220.6	202.5	192.8	187.4	185.0	186.2	189.2
30°	240.4	227.2	219.3	212.7	195.2	182.6	174.2	168.7	166.3	166.3	169.3
32.5°	212.1	204.9	197.7	189.2	172.9	164.5	156.1	150.0	147.6	148.2	150.7
35°	176.6	174.2	176.0	168.1	154.3	147.0	138.6	132.0	130.2	130.8	133.2
37.5°	156.7	145.8	152.5	148.2	140.4	130.8	119.9	113.9	110.9	112.7	113.9
40°	144.0	130.8	125.9	130.2	129.0	113.3	103.6	97.6	95.2	95.8	97.0
42.5°	133.2	117.5	106.7	106.1	113.3	98.8	88.6	83.2	80.1	80.1	81.4
45°	122.9	106.1	92.8	82.6	95.2	83.8	74.1	69.3	65.7	65.7	66.3
47.5°	115.1	96.4	80.7	67.5	71.7	68.7	60.9	56.0	52.4	52.4	53.0
50°	107.9	86.8	69.9	56.6	53.6	56.6	49.4	44.0	41.6	41.0	42.2
52.5°	100.0	77.1	59.7	48.2	42.2	42.8	38.6	35.0	31.9	31.9	33.1
55°	92.2	69.3	51.8	41.0	35.0	31.9	30.7	28.3	25.9	25.9	27.1
57.5°	84.4	60.9	44.0	33.7	27.7	25.3	25.3	23.5	21.7	21.7	22.9
60°	77.1	52.4	36.2	27.7	21.7	21.1	21.7	19.9	18.7	18.7	19.9
62.5°	68.7	44.6	29.5	22.9	17.5	16.9	18.7	17.5	16.3	16.3	17.5
65°	58.5	38.0	23.5	17.5	13.3	13.3	15.7	14.5	13.3	13.3	14.5
67.5°	*49.4*	*31.9*	*18.1*	*12.7*	*9.6*	*10.2*	*13.3*	*12.1*	*11.4*	*11.4*	*12.7*
70°	41.0	24.7	12.7	7.8	5.4	7.8	10.2	10.2	10.2	10.2	11.4
72.5°	30.7	16.9	7.2	3.0	2.4	5.4	8.4	9.6	9.0	9.0	10.8
75°	19.9	9.6	2.4	0.0	0.0	3.0	6.6	7.8	7.8	7.2	9.0
77.5°	11.4	3.0	0.0	0.0	0.0	0.0	4.2	3.6	3.0	2.4	4.2
80°	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: P324327
CATALOG NUMBER: GLEON-SA3C-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4267.7	4267.7	4267.7	4267.7	4267.7	4267.7	4267.7	4267.7	4267.7	4267.7
2.5°	3760.3	3831.4	3931.4	4037.5	4200.8	4330.3	4457.5	4566.6	4608.8	4626.2
5°	2976.3	3080.5	3227.0	3415.0	3709.7	3974.8	4243.6	4514.1	4631.7	4661.2
7.5°	2135.6	2268.8	2455.0	2690.6	3035.9	3379.4	3754.9	4152.0	4334.0	4379.8
10°	1580.6	1743.3	1956.7	2204.9	2534.6	2887.7	3296.9	3750.6	3958.5	4019.4
12.5°	1121.5	1341.4	1627.0	1929.0	2214.6	2529.8	2943.7	3443.9	3662.1	3727.7
15°	658.7	871.4	1209.4	1613.8	1979.6	2299.0	2719.6	3286.6	3527.1	3593.4
17.5°	377.8	483.9	739.4	1190.2	1686.7	2129.0	2649.1	3325.8	3609.0	3670.5
20°	288.6	322.4	426.0	766.5	1344.4	1962.1	2649.1	3547.6	3896.5	3986.9
22.5°	252.5	277.2	319.4	457.4	989.5	1783.1	2679.8	3868.1	4324.3	4424.4
25°	224.2	246.5	282.6	344.1	674.9	1570.4	2752.7	4261.7	4828.1	4957.7
27.5°	200.7	221.8	254.3	301.3	461.6	1313.7	2850.9	4723.3	5383.7	5487.4
30°	179.6	199.5	229.0	262.1	356.1	1022.6	2934.7	5158.3	5820.0	5931.5
32.5°	159.7	177.8	204.3	229.0	291.7	756.3	2943.7	5503.0	6182.2	6293.0
35°	141.0	157.3	181.4	200.7	241.6	597.2	2803.3	5801.9	6544.3	6690.8
37.5°	122.9	138.6	159.7	174.2	212.7	486.9	2588.8	6135.2	7008.9	7144.5
40°	106.1	119.9	141.6	151.3	201.3	374.2	2355.6	6484.7	7464.5	7588.7
42.5°	90.4	103.6	124.7	143.4	176.6	279.6	2103.7	6812.5	7874.3	8004.5
45°	75.3	89.2	110.3	151.9	146.4	209.1	1834.3	7030.0	8197.9	8339.5
47.5°	60.9	76.5	105.5	144.6	116.9	153.7	1621.0	7236.1	8443.2	8583.0
50°	48.8	64.5	118.7	129.0	95.8	117.5	1531.8	7420.5	8604.1	8738.4
52.5°	39.8	54.2	112.1	98.8	80.1	97.0	1580.0	7719.4	8752.9	8837.3
55°	33.1	42.8	67.5	68.7	68.1	82.6	1639.7	8148.5	9138.0	9177.7
57.5°	28.9	34.3	47.0	53.0	57.2	73.5	1640.9	8764.3	9733.9	9758.7
60°	24.7	30.1	39.2	42.8	49.4	65.7	1581.2	8979.5	9968.4	10050.3
62.5°	21.7	26.5	32.5	35.6	41.6	59.1	1441.4	8667.9	9646.6	9785.8
65°	19.3	24.1	27.1	30.1	36.8	53.0	1211.2	8044.8	9112.7	9257.9
67.5°	*16.9*	*21.1*	*24.1*	*27.1*	*33.1*	*47.0*	*891.9*	*7321.1*	*8499.8*	*8620.3*
70°	15.1	18.7	21.7	24.1	28.9	39.8	541.1	6212.3	7652.5	7702.6
72.5°	14.5	16.9	19.9	21.7	25.3	35.0	274.2	4565.4	6117.7	6199.0
75°	12.7	15.1	18.1	19.3	22.3	30.1	111.5	2998.6	4433.4	4564.2
77.5°	10.2	13.9	16.3	17.5	19.3	24.7	56.6	1916.3	3111.3	3195.6
80°	3.6	10.2	13.9	14.5	16.3	18.1	37.4	1049.1	1804.8	1841.0
82.5°	0.0	6.6	10.8	10.2	11.4	13.9	24.1	499.0	1191.4	1204.6
85°	0.0	3.0	8.4	6.6	4.8	9.6	8.4	109.1	624.9	650.8
87.5°	0.0	0.0	0.6	3.0	2.4	3.6	1.2	0.6	56.6	71.7
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.

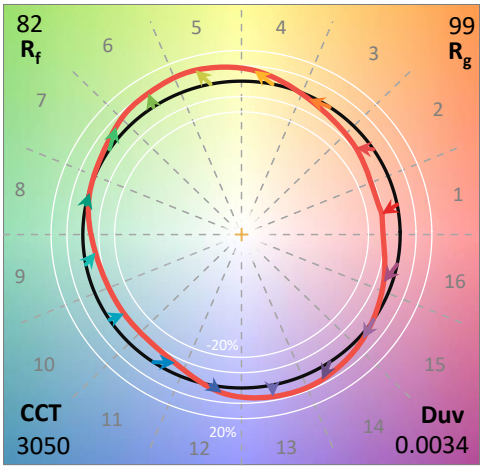
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

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

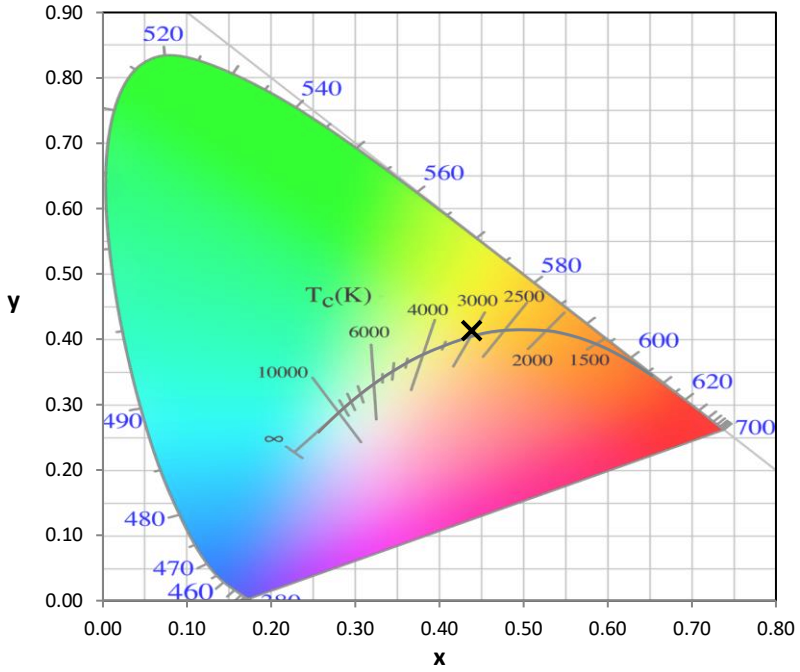
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

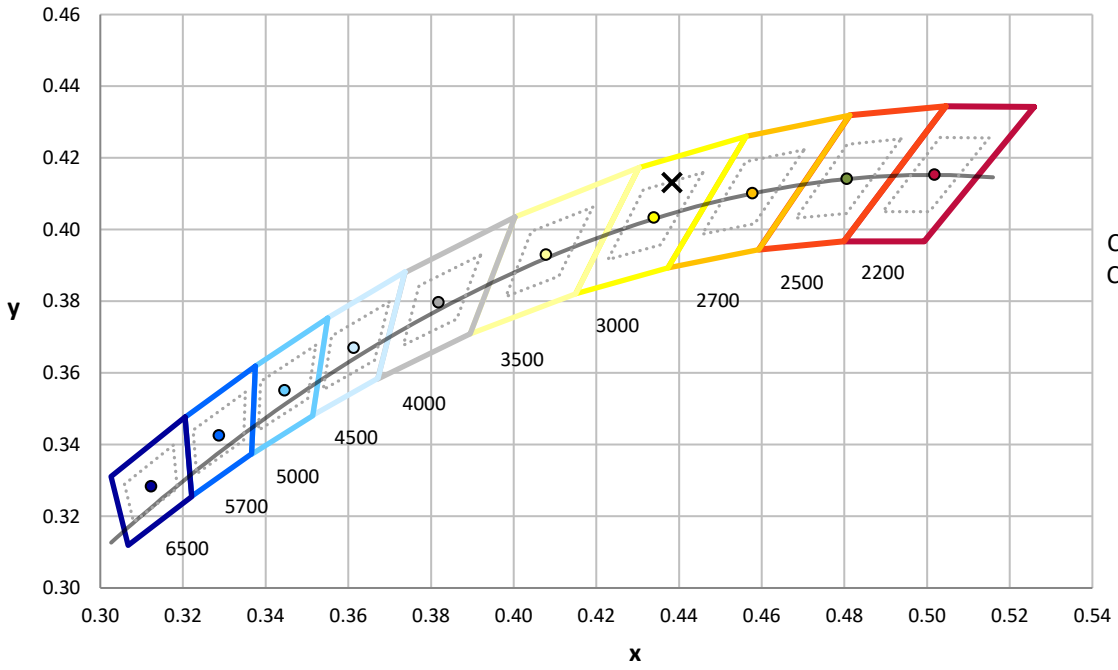
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

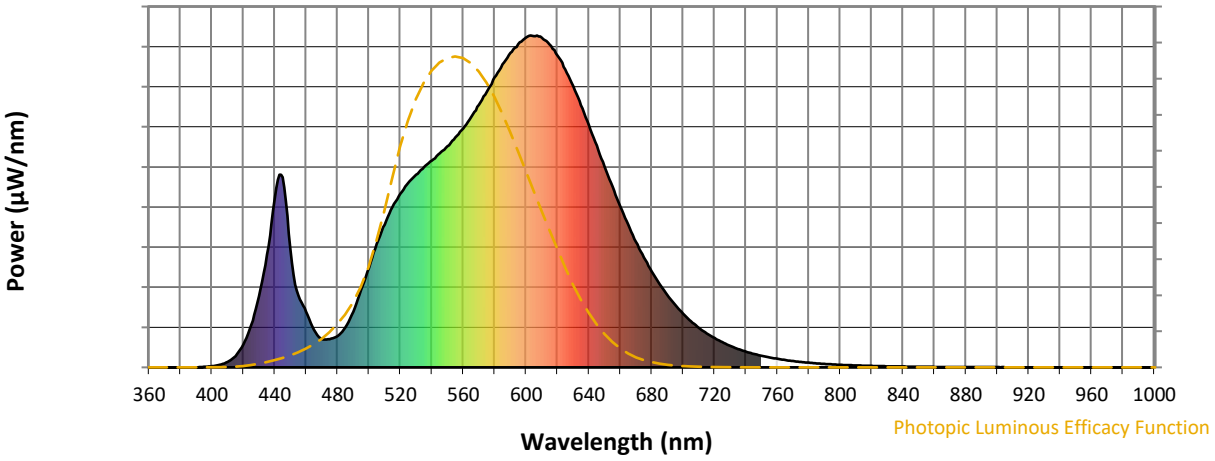


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

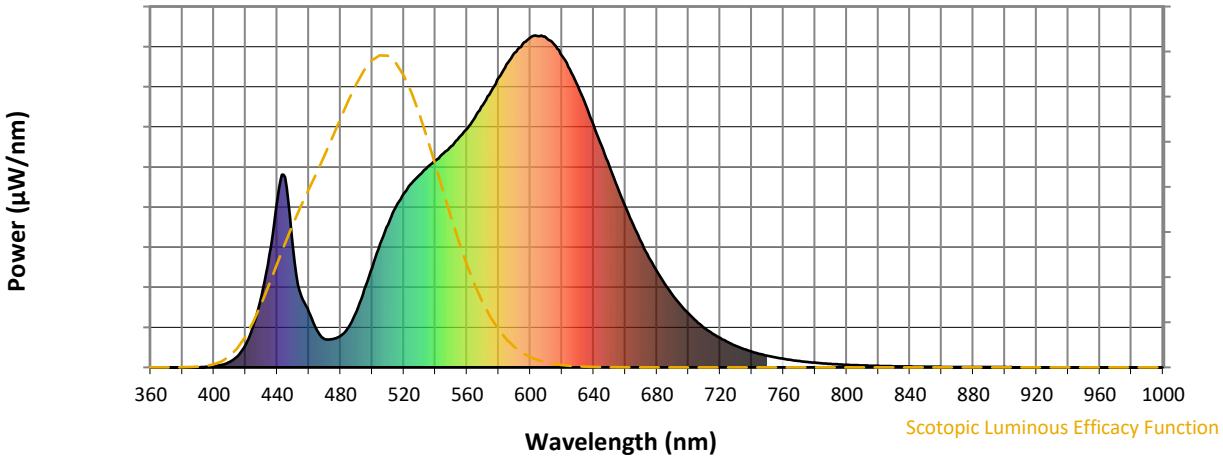


Photopic Lumens: NR

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

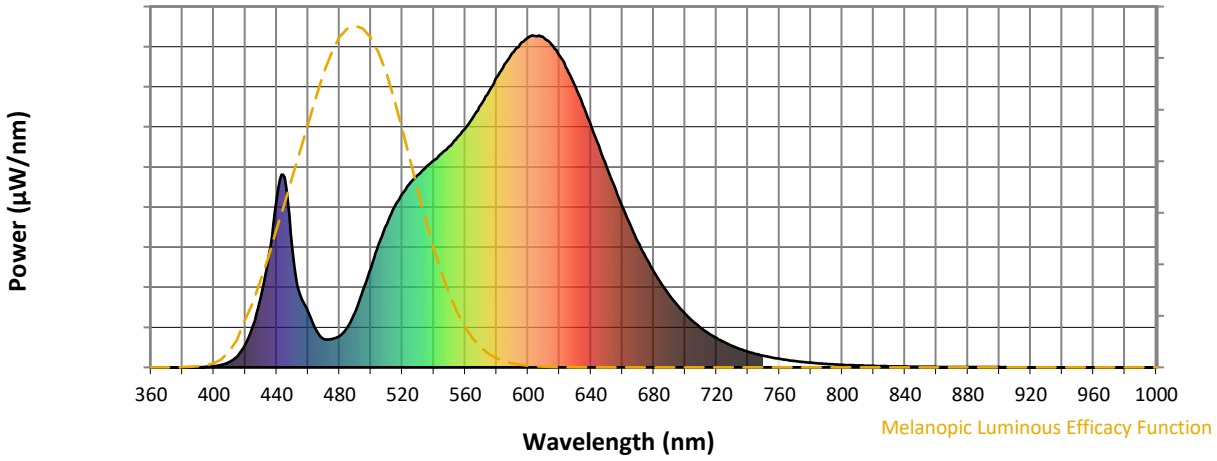


Scotopic Lumens: NR **S/P: 1.27**

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			

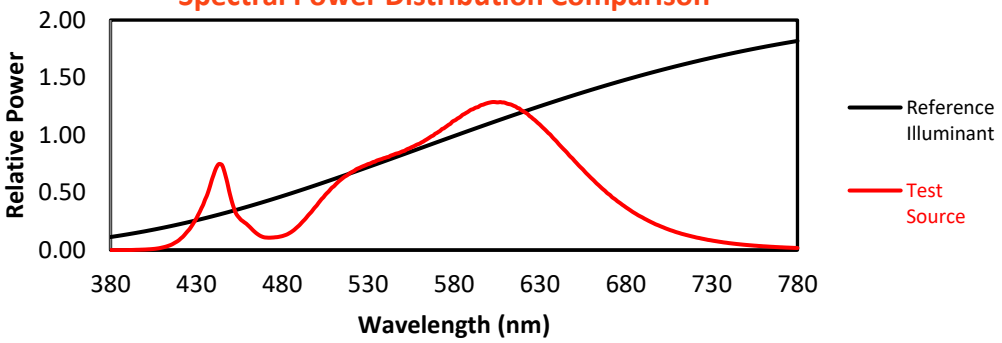
REPORT NUMBER: SP1-2408-195-9

TM-30-18

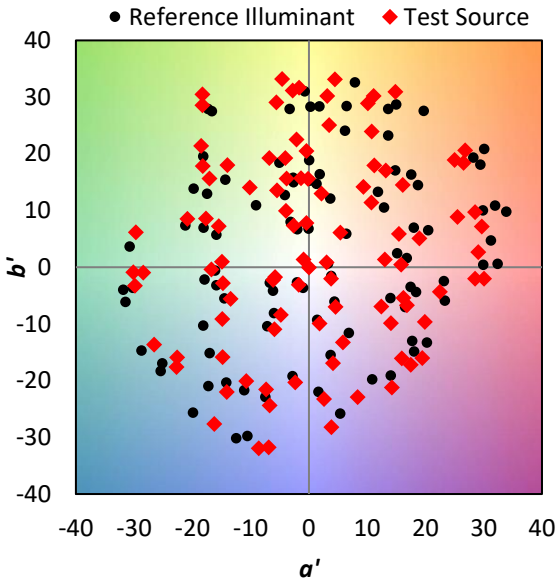
Summary

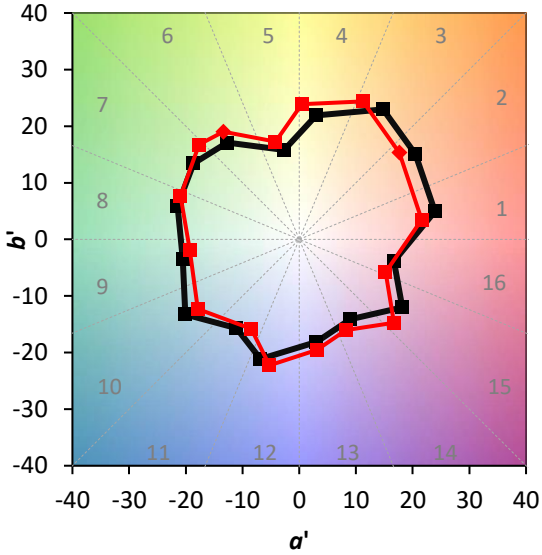
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

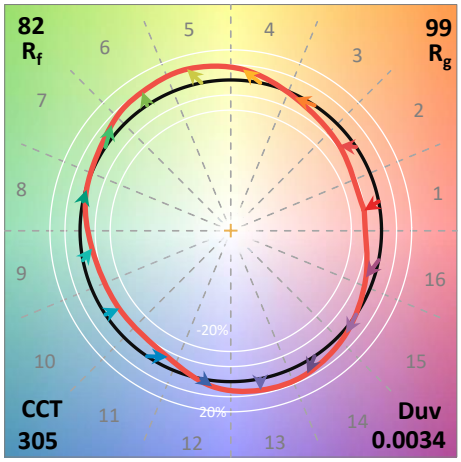
Spectral Power Distribution Comparison

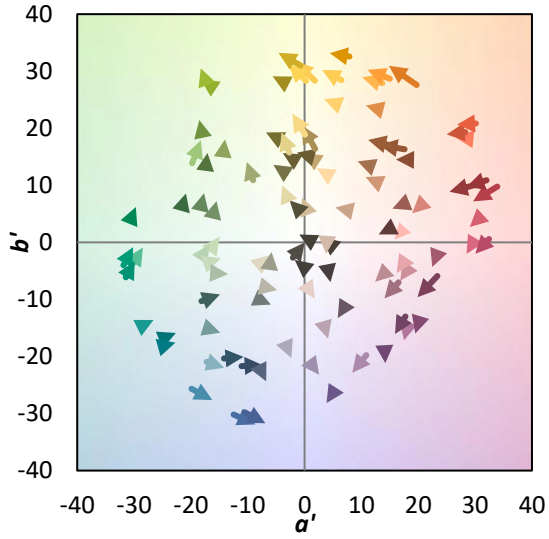


Color Vector Graphics









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
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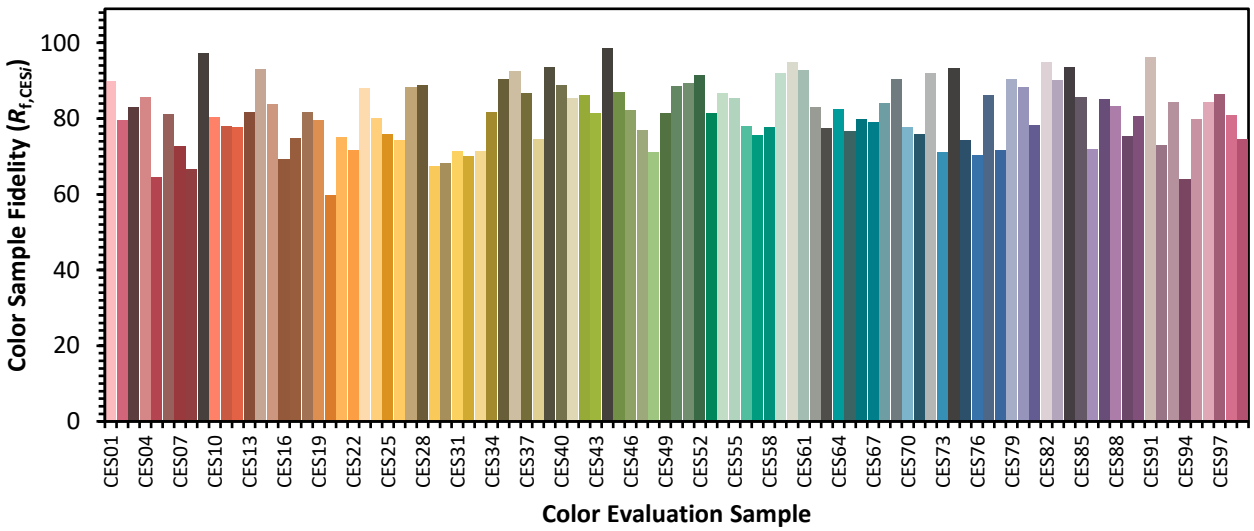

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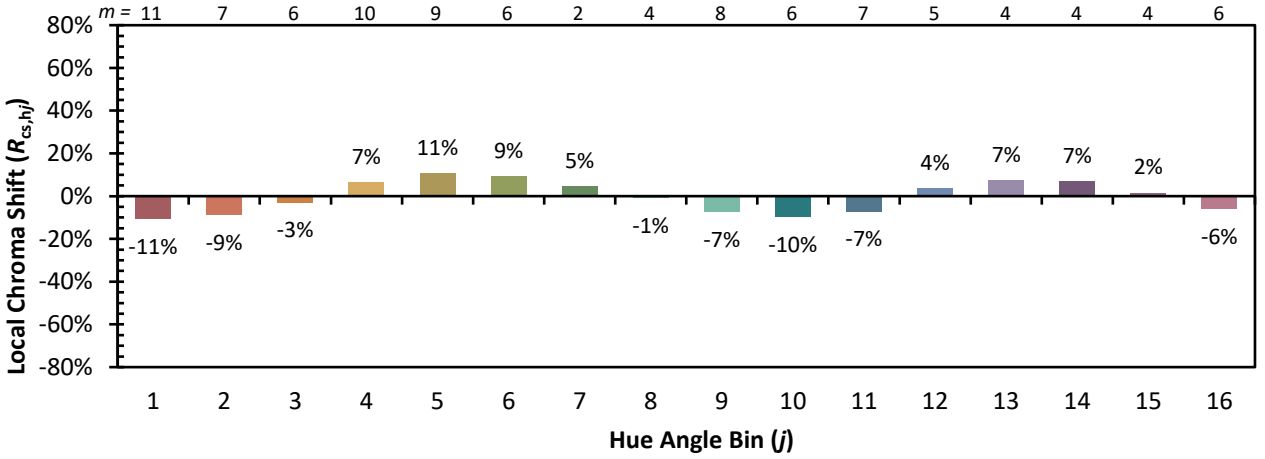
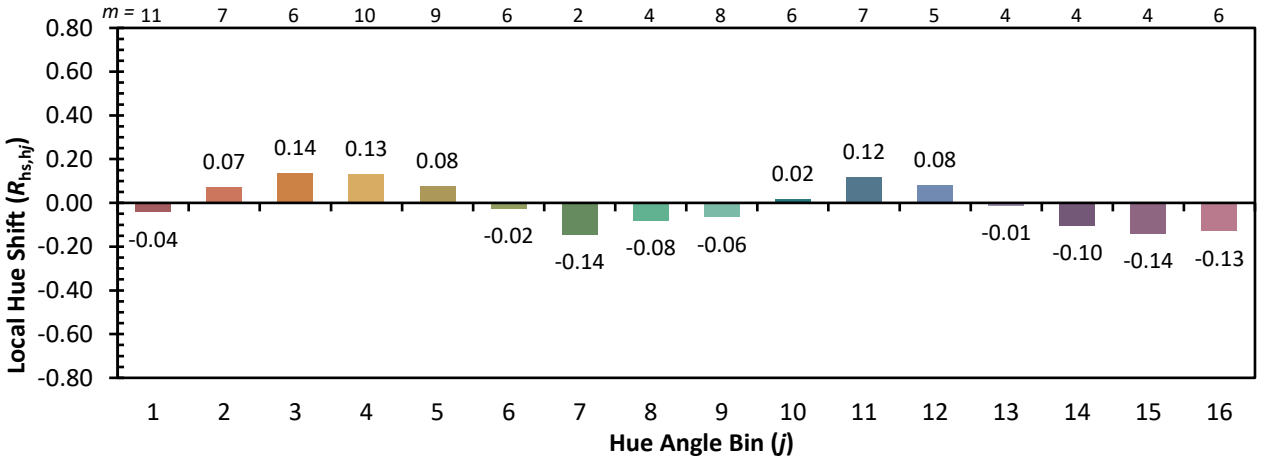
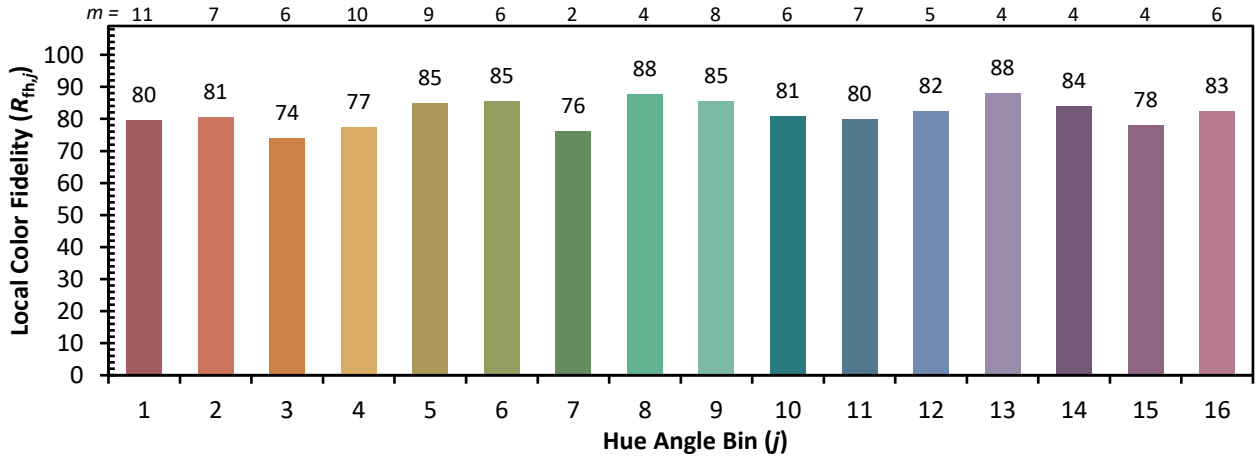
Color Rendition by Hue-Angle Bin







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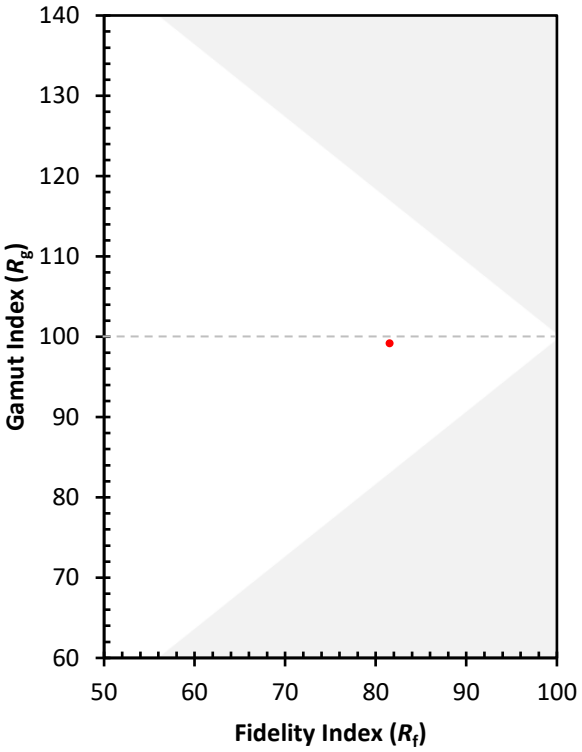
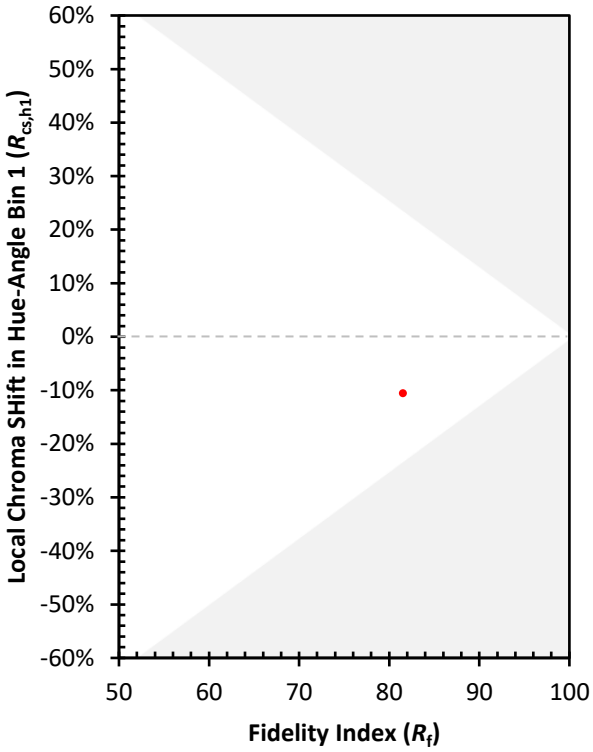
Measure Comparisons





(END OF REPORT)