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: P324310

Luminaire Tested: **GLEON-SA6A-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:	P324310
	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-SA6A-830-U-SLL-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(6) 80 CRI, 3000K, 615mA 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:	16420 lumens
Efficiency:	N/A
Efficacy:	85.1 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B2 - U0 - G3

Input Watts (W):	193
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: P324310
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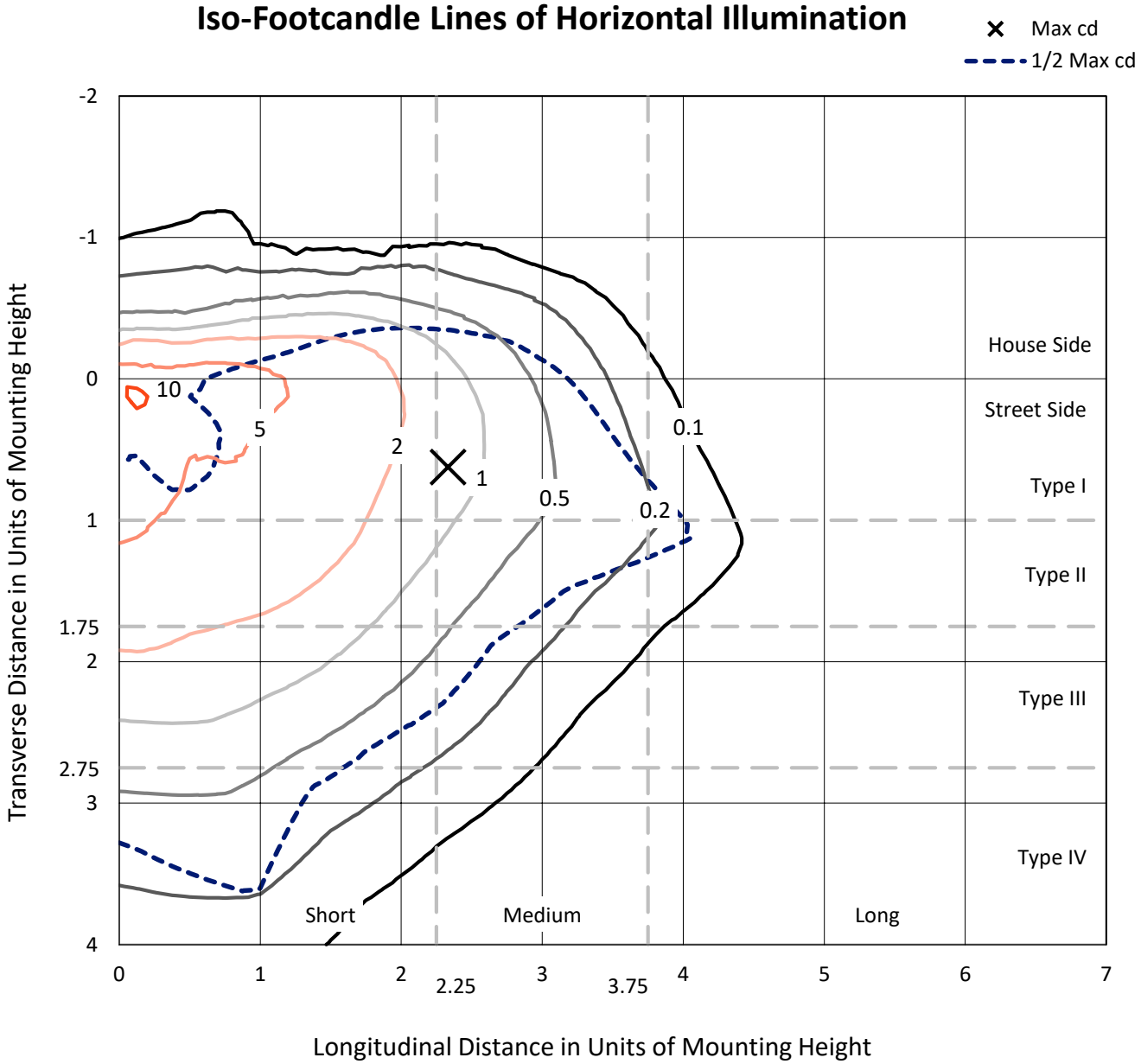
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
Type III - Medium - N/A

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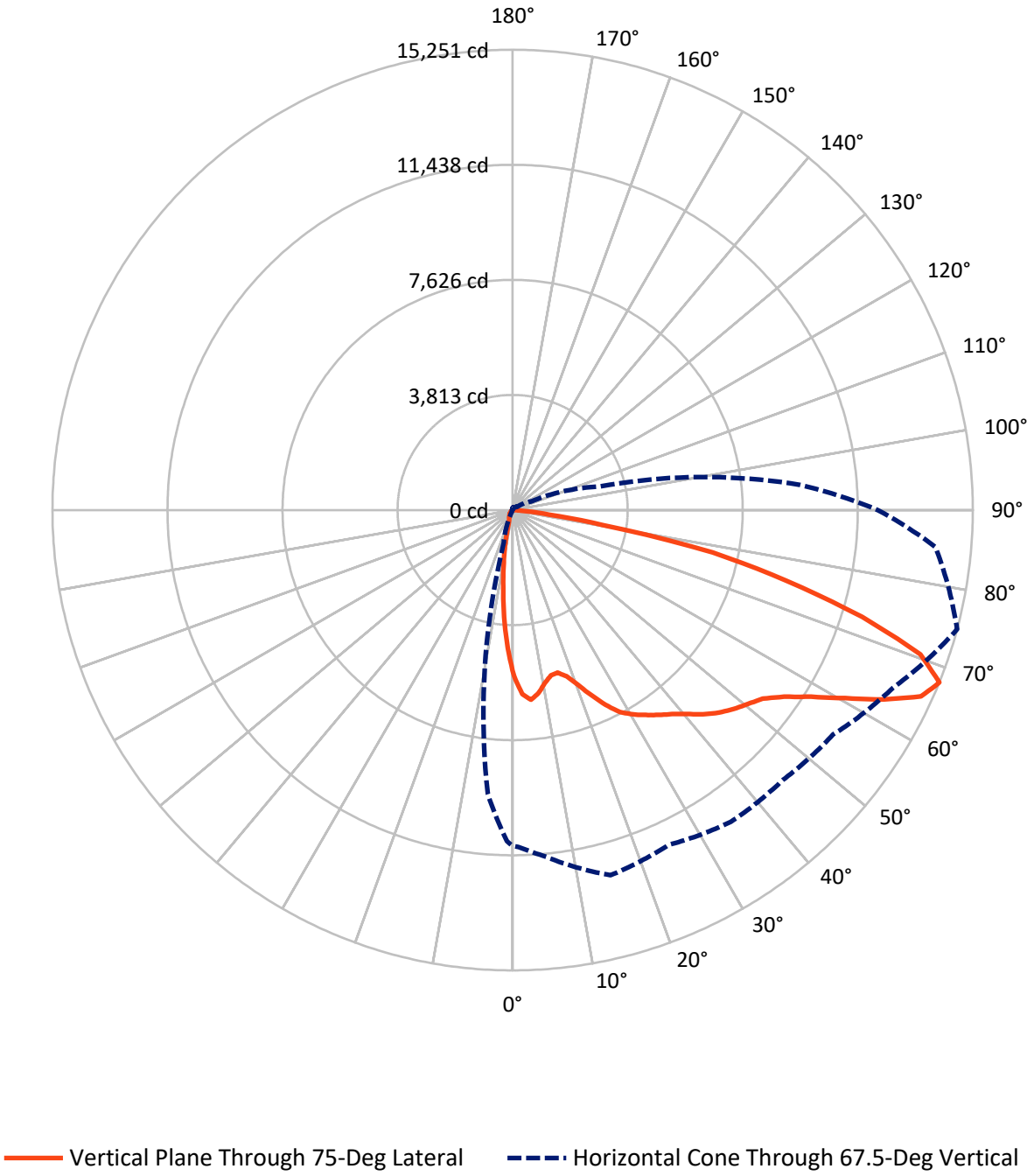
Luminous Intensity Polar Plot



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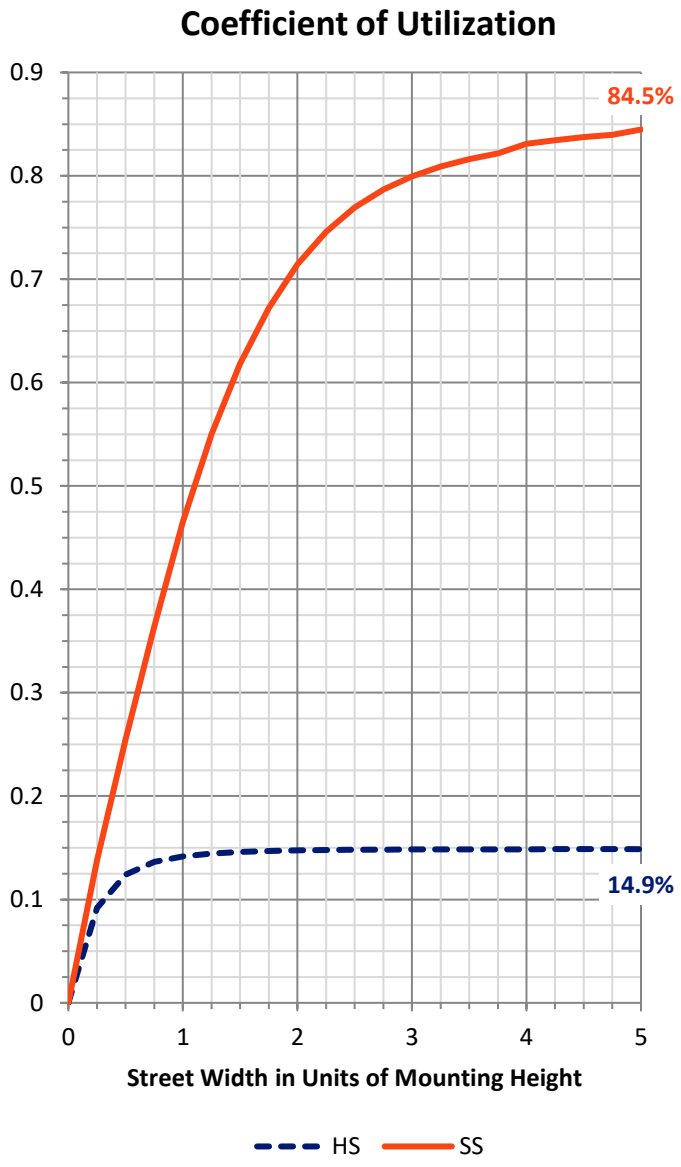
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2464.0	0.0	2464.0
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	13956.0	0.0	13956.0
	% Fixture	85.0	0.0	85.0
Total	Lumens	16420.0	0.0	16420.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.9	2.5
10°-20°	822.8	5.0
20°-30°	1164.0	7.1
30°-40°	1711.4	10.4
40°-50°	2459.8	15.0
50°-60°	3462.8	21.1
60°-70°	4044.2	24.6
70°-80°	2063.2	12.6
80°-90°	274.1	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°	16420.0	100.0
0°-180°	16420.0	100.0



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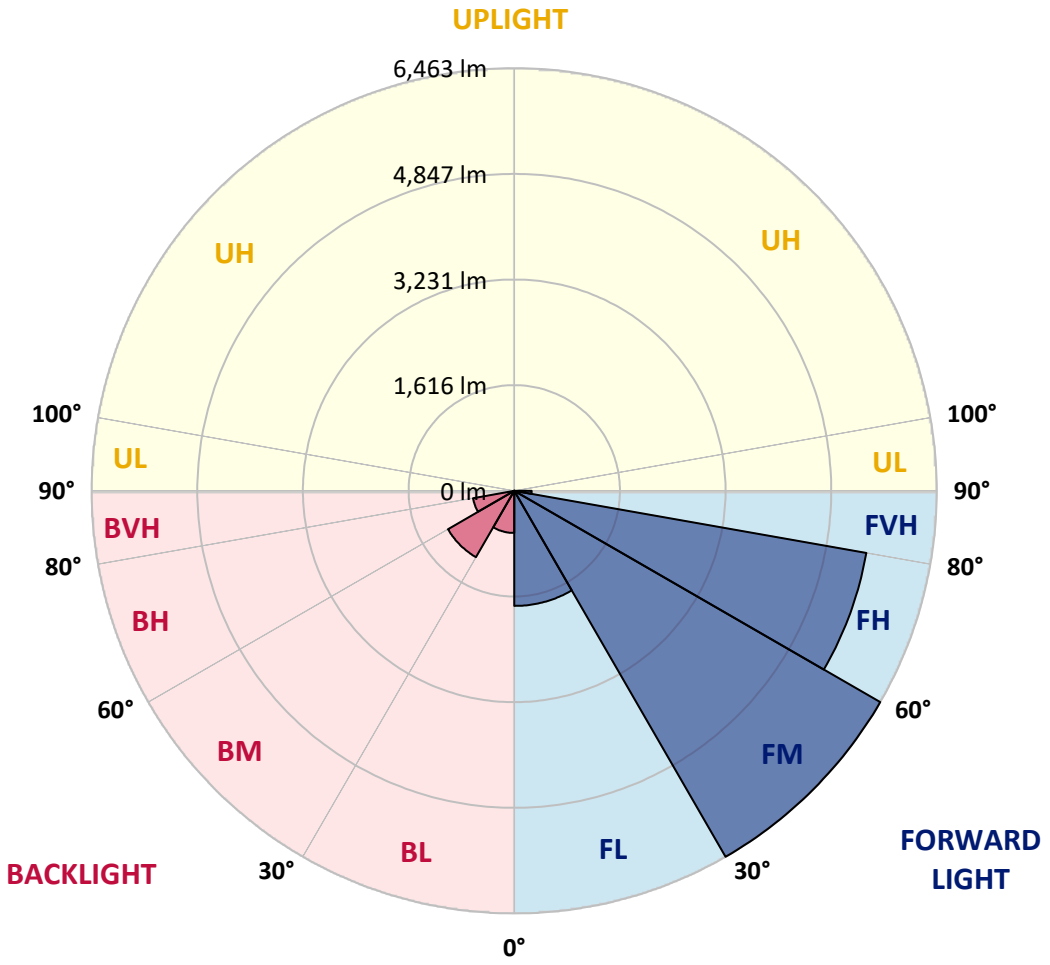
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1760.2	10.7			
FM	(30°-60°)	6462.6	39.4			
FH	(60°-80°)	5467.4	33.3			G3/7500
FVH	(80°-90°)	265.8	1.6			G3/500
BL	(0°-30°)	644.4	3.9	B2/1000		
BM	(30°-60°)	1171.3	7.1	B2/2500		
BH	(60°-80°)	640.0	3.9	B2/1000		G2/1000
BVH	(80°-90°)	8.3	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5508.6	5508.6	5508.6	5508.6	5508.6	5508.6	5508.6	5508.6	5508.6	*5508.6*	5508.6
2.5°	5971.4	5980.8	6029.0	6141.0	6263.1	6272.5	6354.9	6270.1	6241.3	*6104.5*	5962.9
5°	6016.6	6052.3	6218.0	6547.0	6832.5	6924.3	6989.6	6823.2	6648.2	*6313.7*	5956.7
7.5°	5653.3	5713.2	5973.8	6591.4	7101.6	7327.2	7370.0	7109.4	6680.8	*6130.1*	5593.4
10°	5188.2	5256.6	5570.9	6330.0	7030.9	7417.4	7476.6	7135.1	6519.0	*5833.0*	5200.6
12.5°	4811.7	4891.8	5213.1	6036.0	6787.4	7215.2	7331.9	7048.7	6379.0	*5622.2*	4932.3
15°	4638.2	4730.0	5067.6	5846.2	6517.5	6854.3	6950.7	6828.6	6301.2	*5588.7*	4870.0
17.5°	4737.8	4837.4	5185.8	5862.5	6263.9	6407.8	6485.6	6535.4	6301.2	*5790.2*	5052.0
20°	5146.2	5253.5	5622.2	6028.2	6053.9	6000.2	6083.4	6258.5	6374.4	*6172.9*	5489.2
22.5°	5710.9	5836.9	6253.0	6312.1	5951.2	5748.2	5759.1	6033.7	6507.4	*6658.3*	6095.9
25°	6399.3	6553.3	6976.4	6735.3	5994.0	5598.1	5594.2	5848.5	6637.3	*7144.4*	6771.8
27.5°	7083.0	7252.5	7624.3	7251.8	6170.6	5570.9	5563.1	5792.5	6764.1	*7576.9*	7510.0
30°	7656.2	7821.1	8141.6	7625.9	6361.1	5634.6	5597.3	5852.4	6839.5	*7857.7*	8048.3
32.5°	8122.9	8255.2	8514.2	7883.4	6564.9	5758.3	5677.4	6012.7	6967.8	*8094.9*	8543.0
35°	8636.3	8775.5	8879.0	8128.4	6793.6	5936.4	5820.5	6267.0	7165.4	*8336.1*	9085.1
37.5°	9222.0	9360.5	9348.0	8352.4	7083.7	6231.2	6157.3	6669.9	7472.7	*8574.9*	9690.3
40°	9795.3	9936.8	9835.7	8597.4	7424.4	6717.4	6662.9	7275.1	7884.1	*8880.5*	10399.7
42.5°	10332.0	10485.2	10269.0	8829.2	7830.5	7330.3	7423.7	8054.5	8399.1	*9257.0*	11011.0
45°	10764.5	10920.8	10632.2	9054.8	8258.3	8073.9	8354.7	8917.9	9018.2	*9575.2*	11424.1
47.5°	11078.7	11226.5	10884.2	9280.4	8805.9	8983.2	9472.5	9823.3	9577.5	*9851.3*	11717.3
50°	11279.4	11394.5	10958.1	9562.7	9524.6	10044.2	10636.9	10808.0	10104.1	*10100.2*	12073.6
52.5°	11407.0	11459.1	11012.6	9857.5	10274.4	11199.3	11777.2	11830.9	10646.2	*10374.0*	12553.5
55°	11846.4	11888.4	11398.4	10214.5	10894.4	12211.2	12808.6	12758.8	11259.9	*10909.9*	13119.7
57.5°	12596.3	12640.6	12195.7	10727.9	11396.1	12836.6	13556.1	13645.6	11979.4	*11662.9*	13726.5
60°	12972.7	13055.2	12896.5	11378.2	11882.2	13236.4	14065.6	14351.1	12878.6	*12655.4*	14314.5
62.5°	12631.3	12751.1	12981.3	12099.2	12365.2	13456.5	14224.3	14603.9	13799.6	*13812.0*	14677.0
65°	11949.9	12045.6	12436.0	12494.4	12645.3	13429.3	13832.2	14250.7	14363.5	*14874.5*	14657.5
67.5°	*11126.9*	*11162.7*	*11494.1*	*12525.5*	*12239.2*	*12611.0*	*12654.6*	*12964.2*	*13917.8*	*15251.0*	*14068.7*
70°	9942.3	9961.7	10251.1	11484.0	10517.9	10599.6	10535.0	10598.0	11965.4	*14333.9*	12582.3
72.5°	8001.6	8050.6	8462.1	9537.0	7662.5	7426.8	7933.9	7905.9	9215.0	*12110.1*	9344.9
75°	5891.3	5976.1	6597.6	7681.9	5378.0	4864.6	5234.8	5333.6	6550.9	*9367.5*	5843.9
77.5°	4124.9	4187.9	4789.9	5647.1	3892.3	3478.5	3344.7	3462.1	4324.0	*6776.5*	2944.1
80°	2376.3	2399.6	2783.9	3260.7	2622.9	3000.9	2718.5	2799.4	2591.0	*3014.9*	1266.3
82.5°	1554.9	1558.8	1708.9	1940.7	1633.5	1897.9	1404.8	1796.0	1593.8	*1211.1*	412.3
85°	840.1	844.7	991.0	1377.5	924.8	522.7	307.2	630.8	985.5	*277.7*	112.8
87.5°	92.6	84.8	298.7	500.9	256.7	47.4	16.3	70.8	157.9	*17.9*	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°	5508.6	5508.6	5508.6	5508.6	5508.6	5508.6	5508.6	5508.6	5508.6	5508.6	5508.6
2.5°	5890.5	5826.0	5665.0	5494.6	5357.7	5229.4	5100.3	4942.4	4820.2	4795.4	4754.9
5°	5764.5	5560.0	5222.4	4883.2	4610.2	4265.6	4047.1	3876.7	3710.3	3700.2	3666.7
7.5°	5324.3	5055.2	4579.9	4110.9	3726.6	3398.4	3067.0	2845.3	2671.1	2609.6	2573.1
10°	4901.1	4598.6	4005.1	3469.9	3126.9	2836.8	2603.4	2371.6	2161.6	2016.9	1951.6
12.5°	4605.6	4271.1	3616.9	3155.7	2909.9	2634.5	2349.8	2060.5	1818.6	1644.3	1537.8
15°	4491.2	4134.2	3487.0	3031.2	2727.9	2379.4	2015.4	1684.8	1416.4	1258.5	1162.9
17.5°	4627.3	4212.0	3476.9	2879.5	2455.6	2022.4	1620.2	1229.8	977.0	857.2	795.7
20°	4972.7	4459.3	3473.0	2693.6	2132.0	1599.2	1097.5	808.9	655.7	588.8	560.0
22.5°	5461.2	4775.1	3504.1	2510.1	1795.2	1142.6	757.6	594.3	515.7	479.9	463.6
25°	6089.7	5218.5	3592.0	2343.6	1478.7	852.5	590.4	497.8	442.6	414.6	402.9
27.5°	6759.4	5728.8	3728.9	2198.9	1221.2	679.8	505.6	426.3	386.6	367.1	356.2
30°	7311.7	6319.9	3867.4	2037.9	1034.5	592.7	462.8	388.9	343.0	330.6	320.5
32.5°	7794.7	6767.2	3965.4	1892.5	912.4	526.6	418.5	347.7	316.6	292.5	281.6
35°	8294.8	7139.7	3962.3	1790.6	828.4	476.8	381.1	311.1	273.8	245.8	237.2
37.5°	8836.2	7560.6	3894.6	1703.5	791.8	437.1	360.1	291.7	254.4	226.4	215.5
40°	9470.1	8002.4	3825.4	1621.8	781.7	405.3	345.4	276.1	236.5	209.2	198.3
42.5°	10087.7	8400.6	3764.7	1561.1	738.2	404.5	332.1	264.5	222.5	196.0	183.6
45°	10581.7	8771.6	3753.1	1524.6	692.3	418.5	325.1	256.7	211.6	185.1	173.5
47.5°	10992.4	9174.6	3827.7	1498.9	648.7	381.9	342.2	251.2	201.5	175.8	162.6
50°	11480.8	9669.3	4003.5	1456.9	602.8	343.8	392.0	252.8	192.9	166.5	152.5
52.5°	12162.2	10353.8	4261.8	1386.1	539.8	308.8	385.8	254.4	183.6	156.3	142.3
55°	12926.1	11208.6	4539.4	1268.6	451.9	262.9	330.6	243.5	165.7	145.5	132.2
57.5°	13728.8	11984.1	4704.3	1128.6	359.4	227.1	264.5	221.7	146.2	130.7	122.1
60°	13854.8	12278.9	4628.9	956.7	285.5	197.6	196.0	225.6	130.7	115.1	108.9
62.5°	13541.3	11908.7	4264.1	803.5	238.8	173.5	161.0	196.8	118.2	102.7	96.5
65°	12938.5	10907.6	3672.9	724.2	221.7	148.6	133.8	138.5	103.5	89.5	84.0
67.5°	*12100.0*	*9571.3*	*3015.7*	*679.1*	*219.3*	*127.6*	*114.3*	*105.0*	*89.5*	*77.8*	*73.1*
70°	10385.7	7973.6	2405.8	654.2	213.1	107.3	96.5	85.6	74.7	66.1	62.2
72.5°	7643.8	5650.2	1871.5	626.9	214.7	85.6	84.0	70.8	59.9	51.3	49.8
75°	4416.5	3228.0	1227.4	507.9	204.6	66.1	70.0	49.8	42.0	35.8	35.8
77.5°	2353.7	1968.7	467.5	211.6	74.7	42.0	39.7	29.6	26.4	21.8	21.0
80°	1026.0	866.5	140.8	59.1	41.2	22.6	14.8	13.2	11.7	9.3	8.6
82.5°	363.2	313.5	45.9	28.8	17.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	82.5	59.1	0.0	7.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5508.6	5508.6	5508.6	5508.6	5508.6	5508.6	5508.6	5508.6	5508.6	5508.6	5508.6
2.5°	4672.5	4655.3	4554.2	4558.1	4576.0	4601.7	4541.0	4569.0	4644.5	4716.8	4744.0
5°	3613.0	3616.9	3555.5	3593.6	3627.8	3651.2	3553.2	3554.7	3614.6	3696.3	3739.1
7.5°	2545.9	2539.6	2542.7	2633.8	2698.3	2651.6	2688.2	2561.4	2569.2	2627.5	2584.0
10°	1892.5	1806.9	1758.7	1827.1	1897.9	1872.2	1809.2	1768.0	1796.8	1861.4	1856.7
12.5°	1487.2	1364.3	1292.0	1243.0	1301.3	1253.1	1251.5	1215.8	1176.9	1183.9	1287.3
15°	1118.5	1029.1	943.5	865.0	863.4	847.1	763.8	670.5	662.7	667.4	721.1
17.5°	769.3	738.9	703.9	636.3	618.4	549.9	469.0	431.7	413.0	421.6	439.5
20°	540.6	528.9	532.8	496.3	470.6	405.3	357.8	343.0	339.9	348.5	357.0
22.5°	448.0	427.0	424.7	408.4	382.7	335.2	309.6	301.0	297.1	304.9	311.1
25°	392.0	371.0	362.5	352.4	325.1	292.5	276.9	269.1	265.2	269.9	273.8
27.5°	345.4	325.9	318.1	311.1	284.7	261.4	248.9	241.9	238.8	240.4	244.2
30°	310.4	293.2	283.1	274.6	252.0	235.7	224.8	217.8	214.7	214.7	218.6
32.5°	273.8	264.5	255.1	244.2	223.2	212.3	201.5	193.7	190.6	191.3	194.5
35°	227.9	224.8	227.1	217.0	199.1	189.8	178.9	170.3	168.0	168.8	171.9
37.5°	202.2	188.2	196.8	191.3	181.2	168.8	154.8	147.0	143.1	145.5	147.0
40°	185.9	168.8	162.6	168.0	166.5	146.2	133.8	126.0	122.9	123.7	125.2
42.5°	171.9	151.7	137.7	136.9	146.2	127.6	114.3	107.3	103.5	103.5	105.0
45°	158.7	136.9	119.8	106.6	122.9	108.1	95.7	89.5	84.8	84.8	85.6
47.5°	148.6	124.5	104.2	87.1	92.6	88.7	78.6	72.3	67.7	67.7	68.4
50°	139.2	112.0	90.2	73.1	69.2	73.1	63.8	56.8	53.7	52.9	54.4
52.5°	129.1	99.6	77.0	62.2	54.4	55.2	49.8	45.1	41.2	41.2	42.8
55°	119.0	89.5	66.9	52.9	45.1	41.2	39.7	36.6	33.4	33.4	35.0
57.5°	108.9	78.6	56.8	43.6	35.8	32.7	32.7	30.3	28.0	28.0	29.6
60°	99.6	67.7	46.7	35.8	28.0	27.2	28.0	25.7	24.1	24.1	25.7
62.5°	88.7	57.6	38.1	29.6	22.6	21.8	24.1	22.6	21.0	21.0	22.6
65°	75.5	49.0	30.3	22.6	17.1	17.1	20.2	18.7	17.1	17.1	18.7
67.5°	*63.8*	*41.2*	*23.3*	*16.3*	*12.4*	*13.2*	*17.1*	*15.6*	*14.8*	*14.8*	*16.3*
70°	52.9	31.9	16.3	10.1	7.0	10.1	13.2	13.2	13.2	13.2	14.8
72.5°	39.7	21.8	9.3	3.9	3.1	7.0	10.9	12.4	11.7	11.7	14.0
75°	25.7	12.4	3.1	0.0	0.0	3.9	8.6	10.1	10.1	9.3	11.7
77.5°	14.8	3.9	0.0	0.0	0.0	0.0	5.4	4.7	3.9	3.1	5.4
80°	3.9	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: P324310
CATALOG NUMBER: GLEON-SA6A-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5508.6	5508.6	5508.6	5508.6	5508.6	5508.6	5508.6	5508.6	5508.6	5508.6
2.5°	4853.7	4945.5	5074.6	5211.5	5422.3	5589.5	5753.6	5894.4	5948.9	5971.4
5°	3841.7	3976.3	4165.3	4408.0	4788.4	5130.6	5477.5	5826.8	5978.4	6016.6
7.5°	2756.6	2928.5	3168.9	3473.0	3918.7	4362.1	4846.7	5359.3	5594.2	5653.3
10°	2040.3	2250.3	2525.6	2846.1	3271.6	3727.4	4255.5	4841.2	5109.6	5188.2
12.5°	1447.6	1731.5	2100.2	2489.9	2858.5	3265.4	3799.7	4445.3	4726.9	4811.7
15°	850.2	1124.7	1561.1	2083.0	2555.2	2967.4	3510.4	4242.3	4552.7	4638.2
17.5°	487.7	624.6	954.4	1536.2	2177.2	2748.1	3419.4	4292.9	4658.5	4737.8
20°	372.6	416.1	549.9	989.4	1735.4	2532.6	3419.4	4579.1	5029.5	5146.2
22.5°	325.9	357.8	412.3	590.4	1277.2	2301.6	3459.0	4992.9	5581.7	5710.9
25°	289.4	318.1	364.8	444.1	871.2	2027.0	3553.2	5500.9	6232.0	6399.3
27.5°	259.0	286.2	328.2	388.9	595.8	1695.7	3679.9	6096.7	6949.2	7083.0
30°	231.8	257.5	295.6	338.4	459.7	1320.0	3788.1	6658.3	7512.3	7656.2
32.5°	206.1	229.5	263.7	295.6	376.5	976.2	3799.7	7103.2	7979.8	8122.9
35°	182.0	203.0	234.1	259.0	311.9	770.8	3618.5	7489.0	8447.3	8636.3
37.5°	158.7	178.9	206.1	224.8	274.6	628.5	3341.6	7919.1	9047.0	9222.0
40°	136.9	154.8	182.8	195.2	259.8	483.0	3040.6	8370.3	9635.0	9795.3
42.5°	116.7	133.8	161.0	185.1	227.9	360.9	2715.4	8793.4	10164.0	10332.0
45°	97.2	115.1	142.3	196.0	189.0	269.9	2367.7	9074.2	10581.7	10764.5
47.5°	78.6	98.8	136.1	186.7	150.9	198.3	2092.4	9340.2	10898.2	11078.7
50°	63.0	83.2	153.2	166.5	123.7	151.7	1977.3	9578.3	11105.9	11279.4
52.5°	51.3	70.0	144.7	127.6	103.5	125.2	2039.5	9964.1	11298.1	11407.0
55°	42.8	55.2	87.1	88.7	87.9	106.6	2116.5	10517.9	11795.1	11846.4
57.5°	37.3	44.3	60.7	68.4	73.9	94.9	2118.0	11312.8	12564.4	12596.3
60°	31.9	38.9	50.6	55.2	63.8	84.8	2041.0	11590.5	12867.0	12972.7
62.5°	28.0	34.2	42.0	45.9	53.7	76.2	1860.6	11188.4	12451.6	12631.3
65°	24.9	31.1	35.0	38.9	47.4	68.4	1563.4	10384.1	11762.4	11949.9
67.5°	*21.8*	*27.2*	*31.1*	*35.0*	*42.8*	*60.7*	*1151.2*	*9449.9*	*10971.4*	*11126.9*
70°	19.4	24.1	28.0	31.1	37.3	51.3	698.5	8018.7	9877.7	9942.3
72.5°	18.7	21.8	25.7	28.0	32.7	45.1	353.9	5892.9	7896.6	8001.6
75°	16.3	19.4	23.3	24.9	28.8	38.9	143.9	3870.5	5722.5	5891.3
77.5°	13.2	17.9	21.0	22.6	24.9	31.9	73.1	2473.5	4016.0	4124.9
80°	4.7	13.2	17.9	18.7	21.0	23.3	48.2	1354.2	2329.6	2376.3
82.5°	0.0	8.6	14.0	13.2	14.8	17.9	31.1	644.0	1537.8	1554.9
85°	0.0	3.9	10.9	8.6	6.2	12.4	10.9	140.8	806.6	840.1
87.5°	0.0	0.0	0.8	3.9	3.1	4.7	1.6	0.8	73.1	92.6
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.

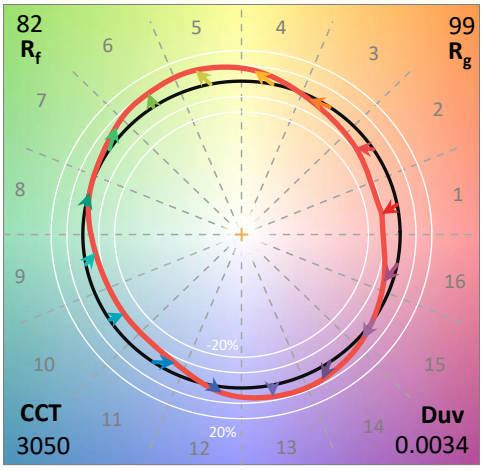
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

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

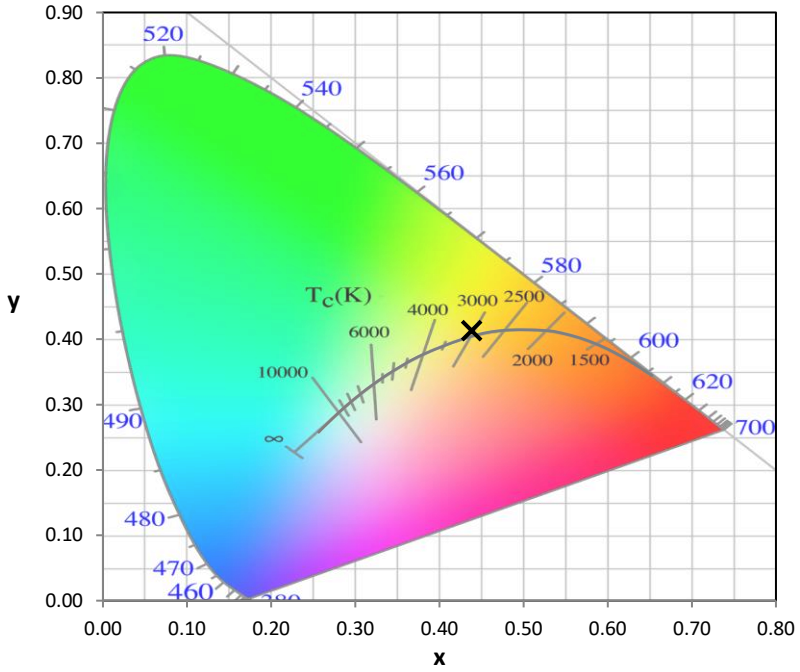
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

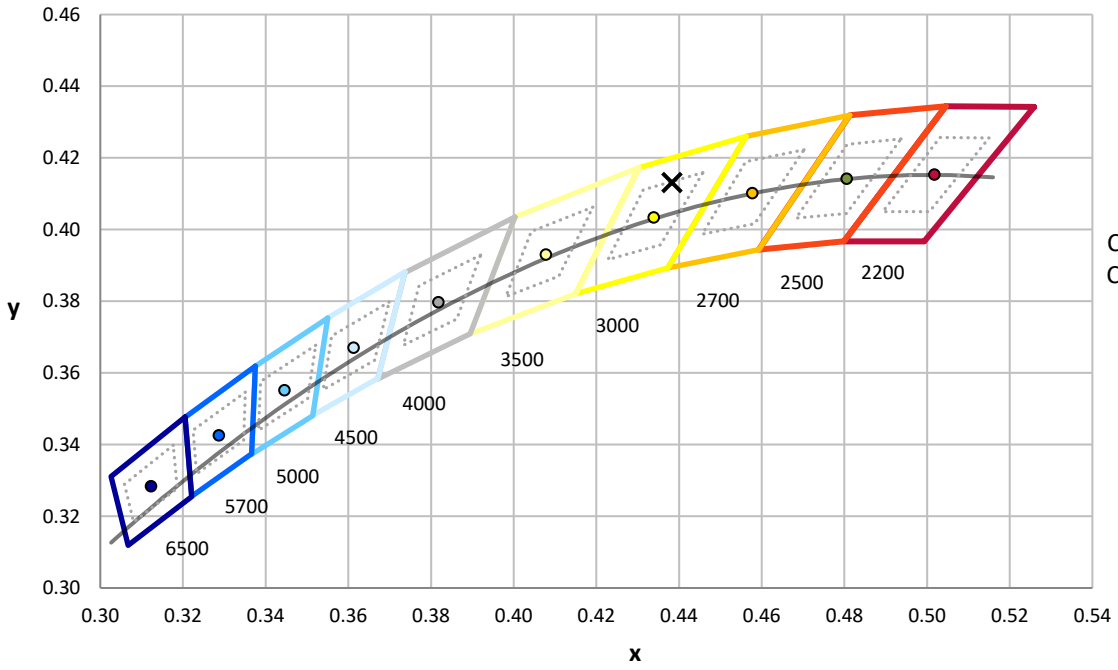
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

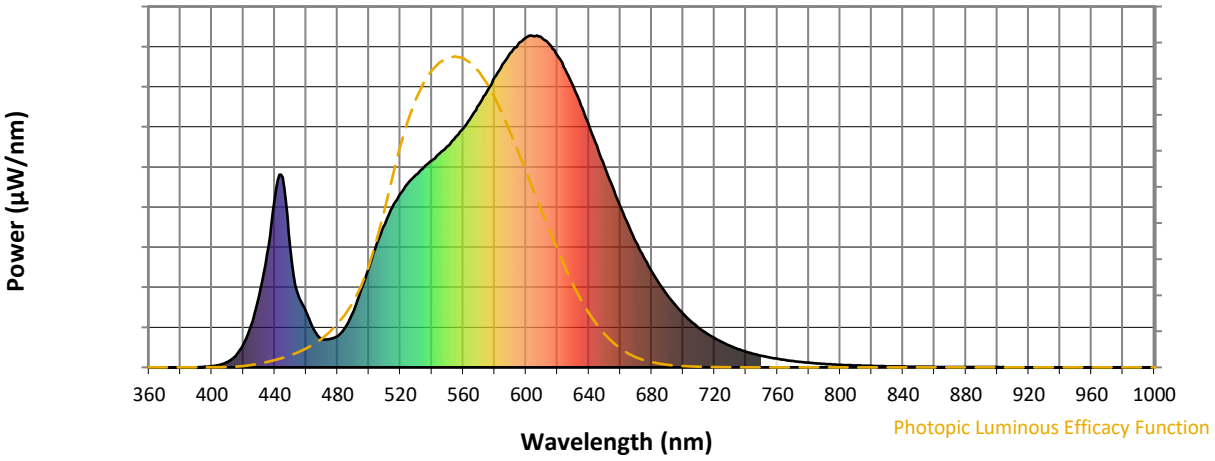


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

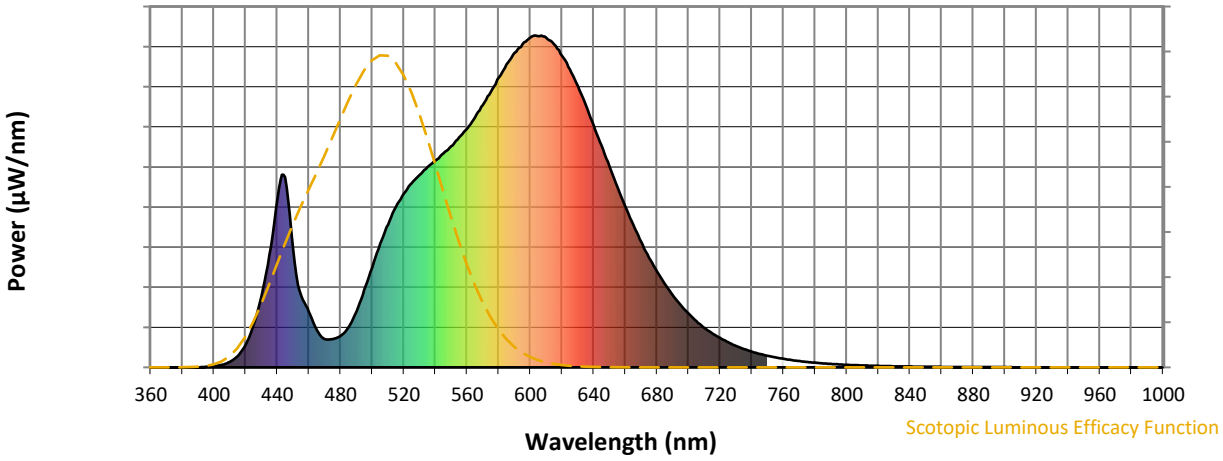


Photopic Lumens: NR

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

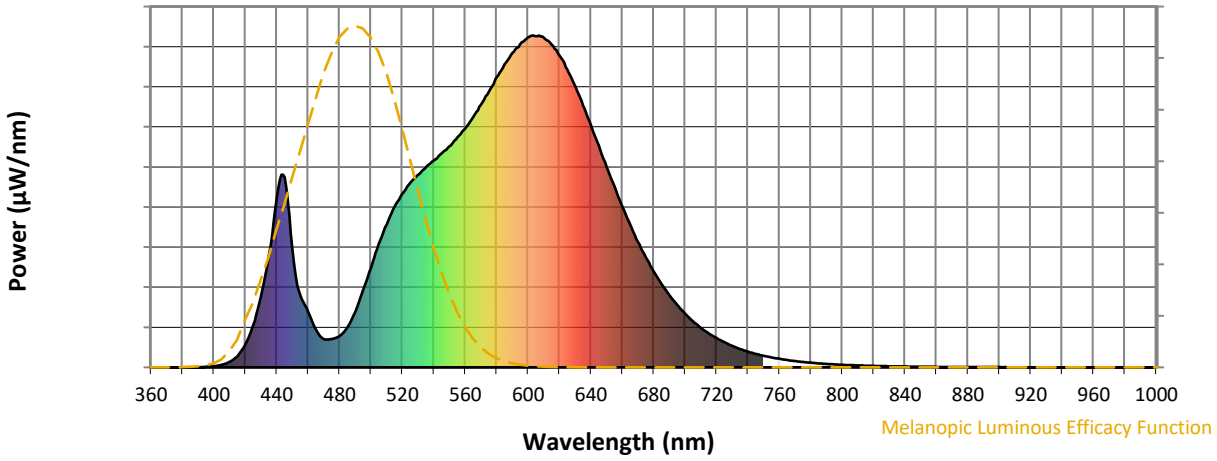


Scotopic Lumens: NR **S/P: 1.27**

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			

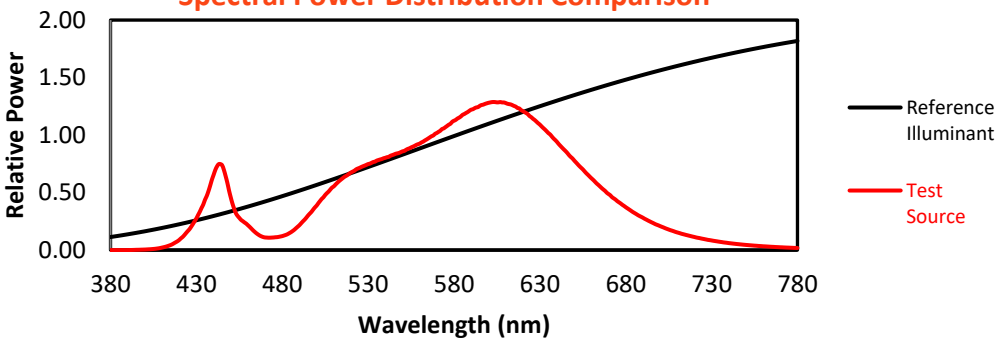
REPORT NUMBER: SP1-2408-195-9

TM-30-18

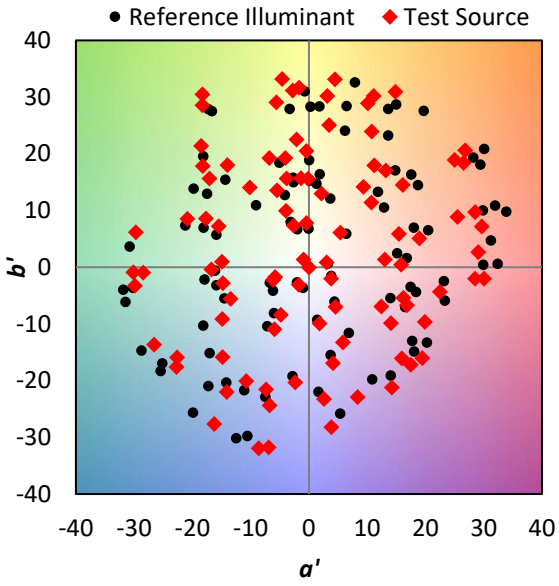
Summary

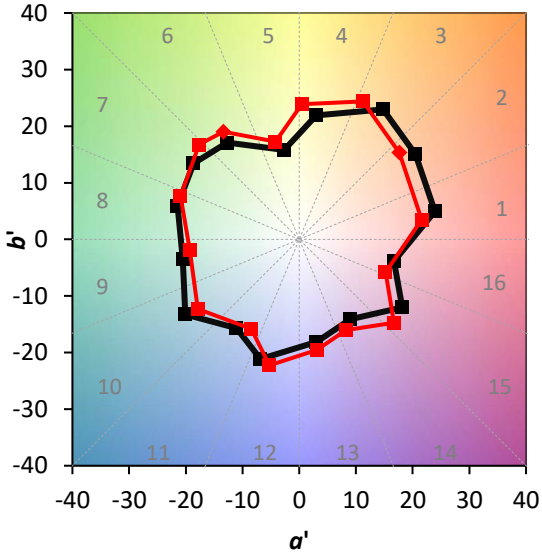
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

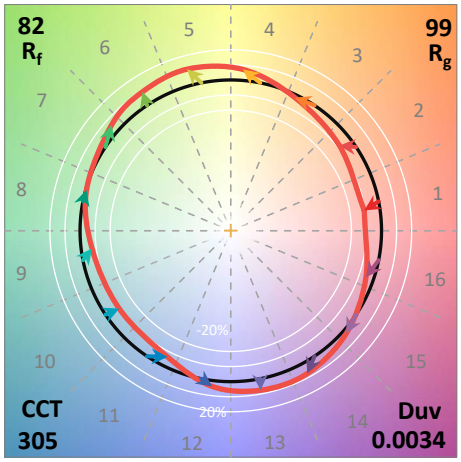
Spectral Power Distribution Comparison

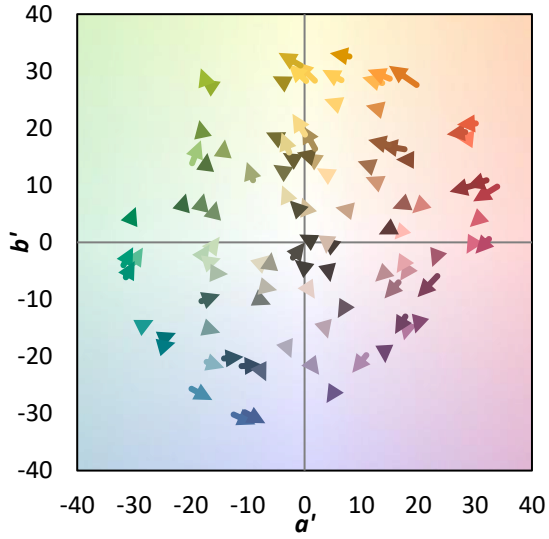


Color Vector Graphics









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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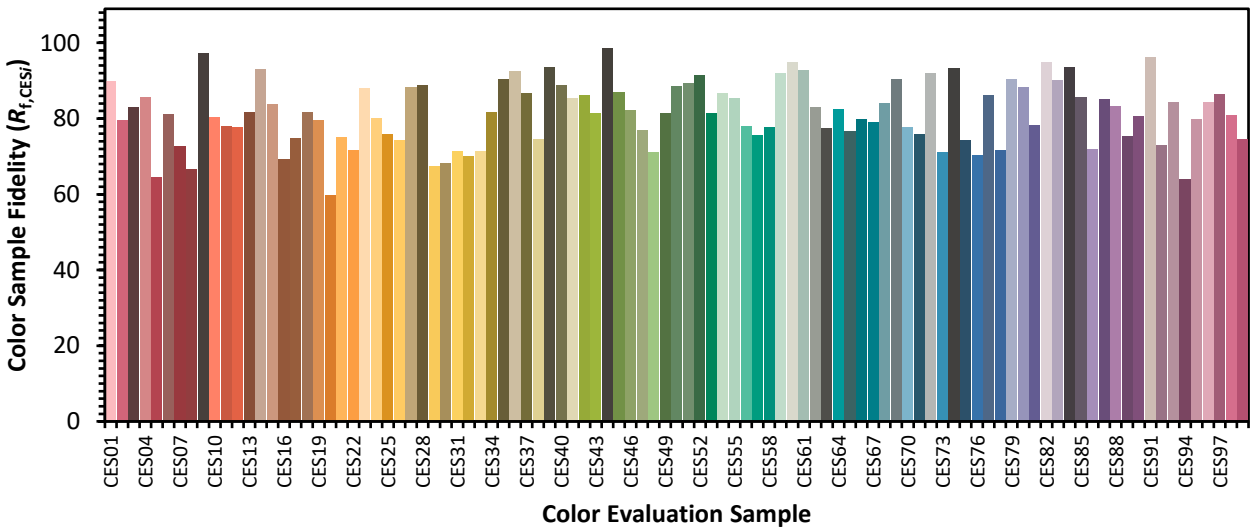

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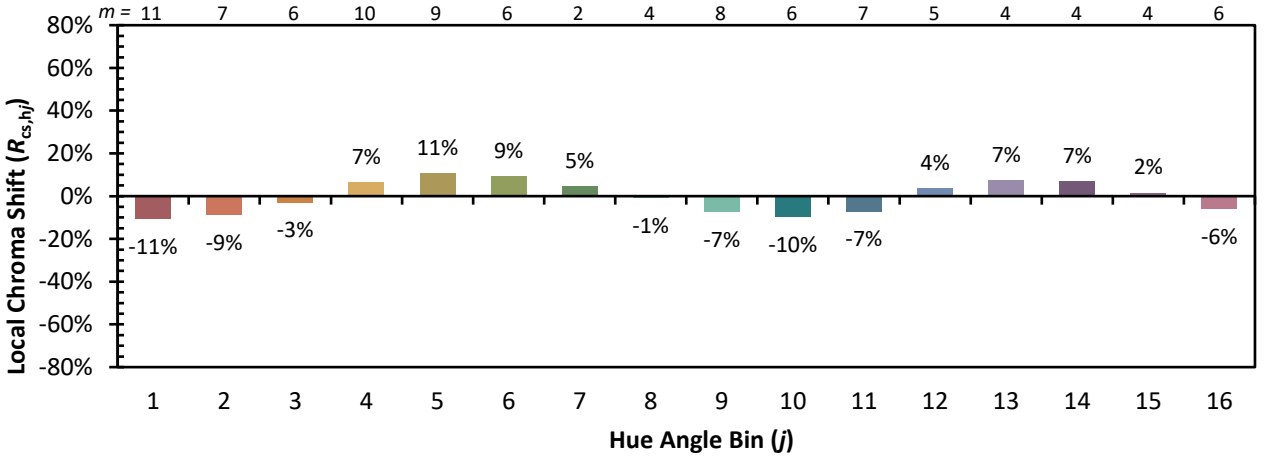
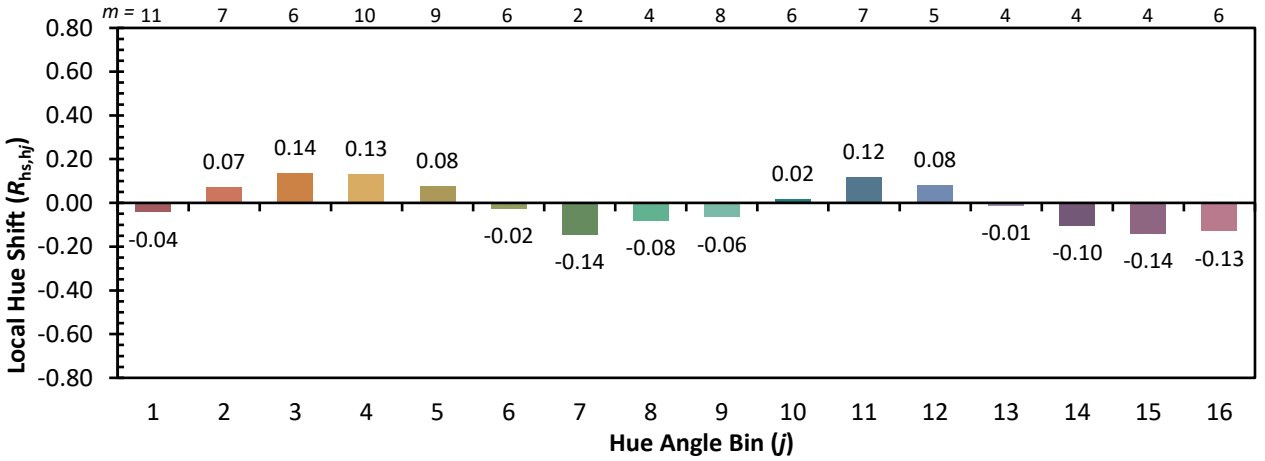
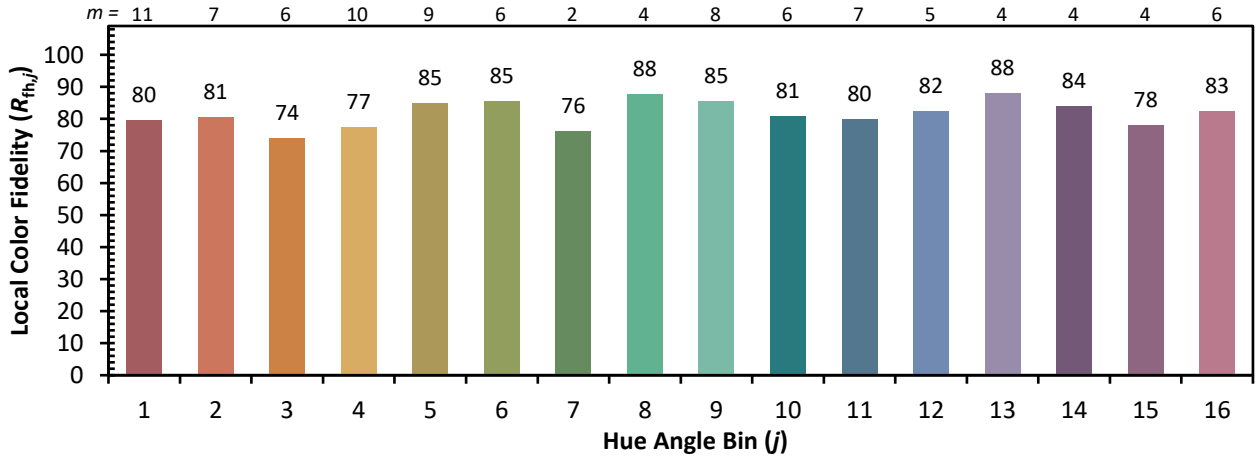
Color Rendition by Hue-Angle Bin







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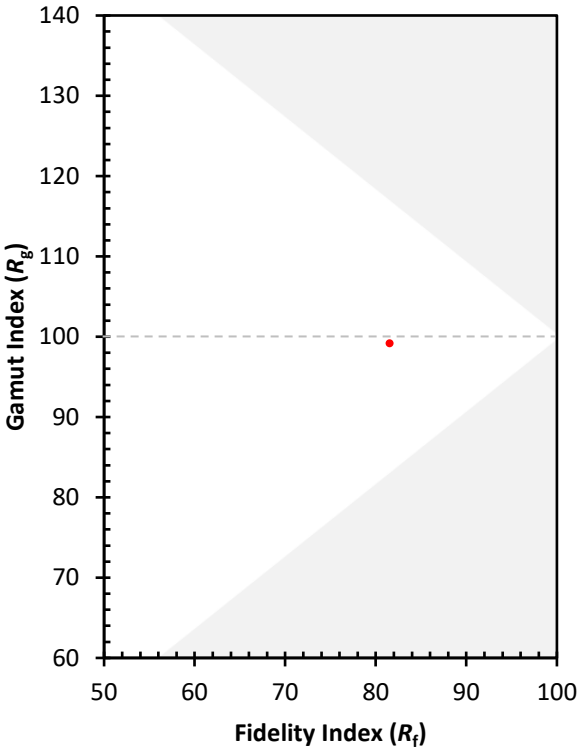
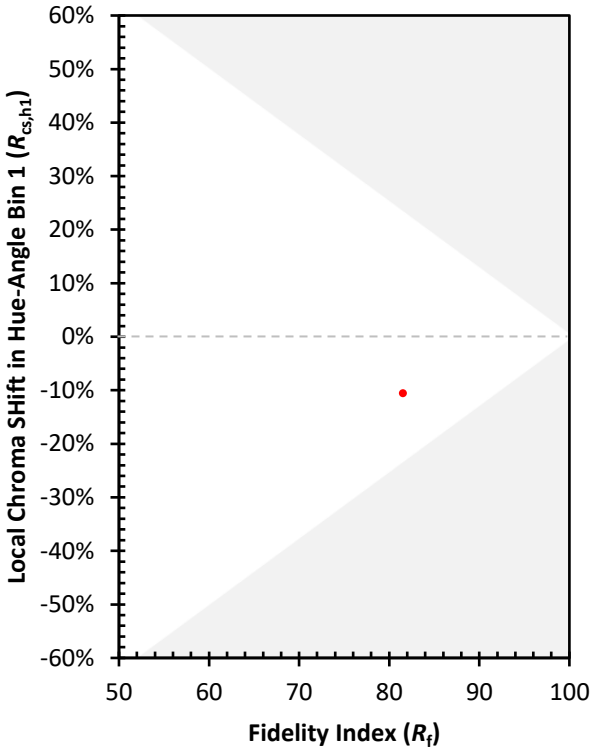
Measure Comparisons





(END OF REPORT)