

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: P324640

Luminaire Tested: **GLEON-SA6B-830-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324640
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6B-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20133 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

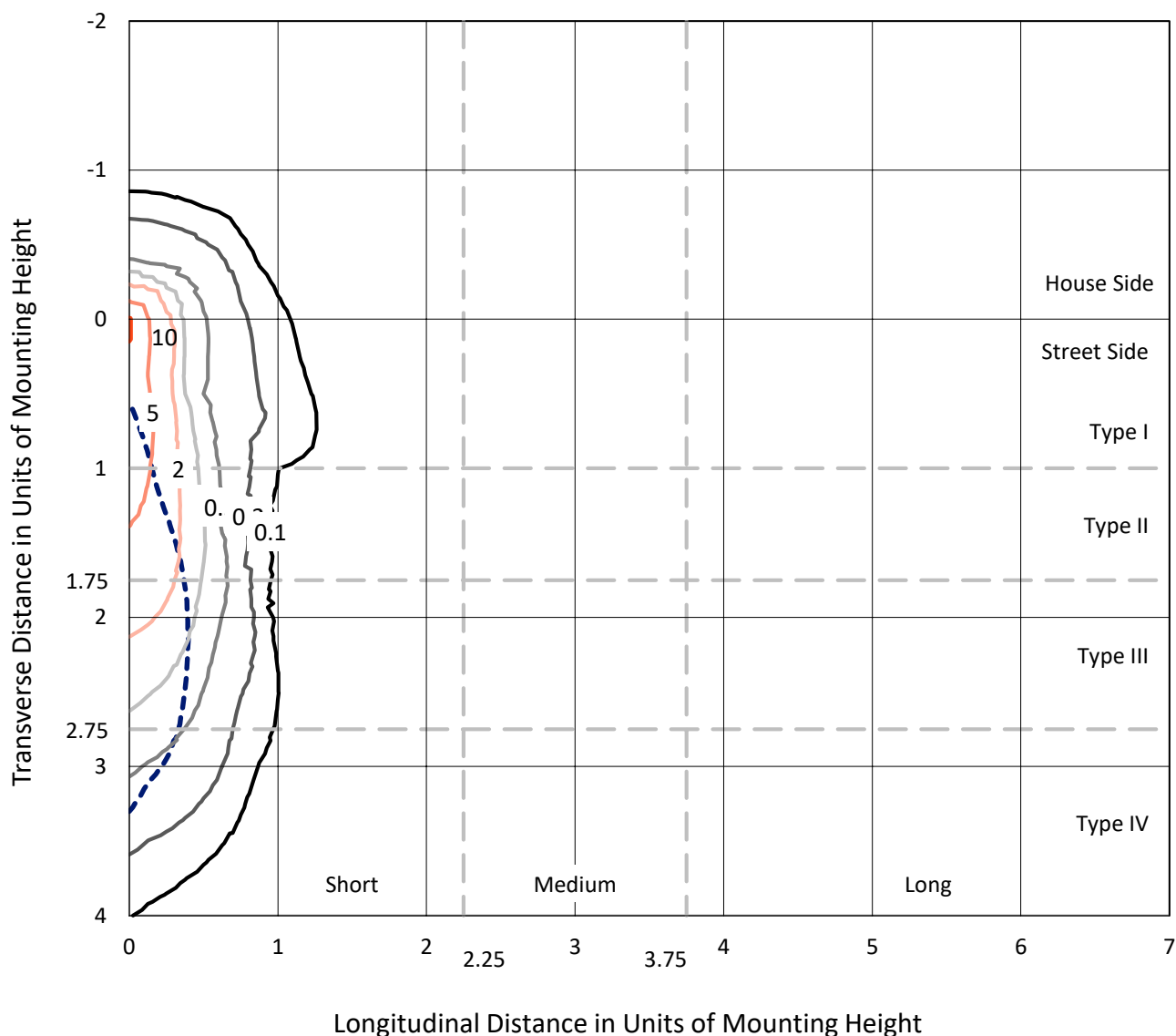
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

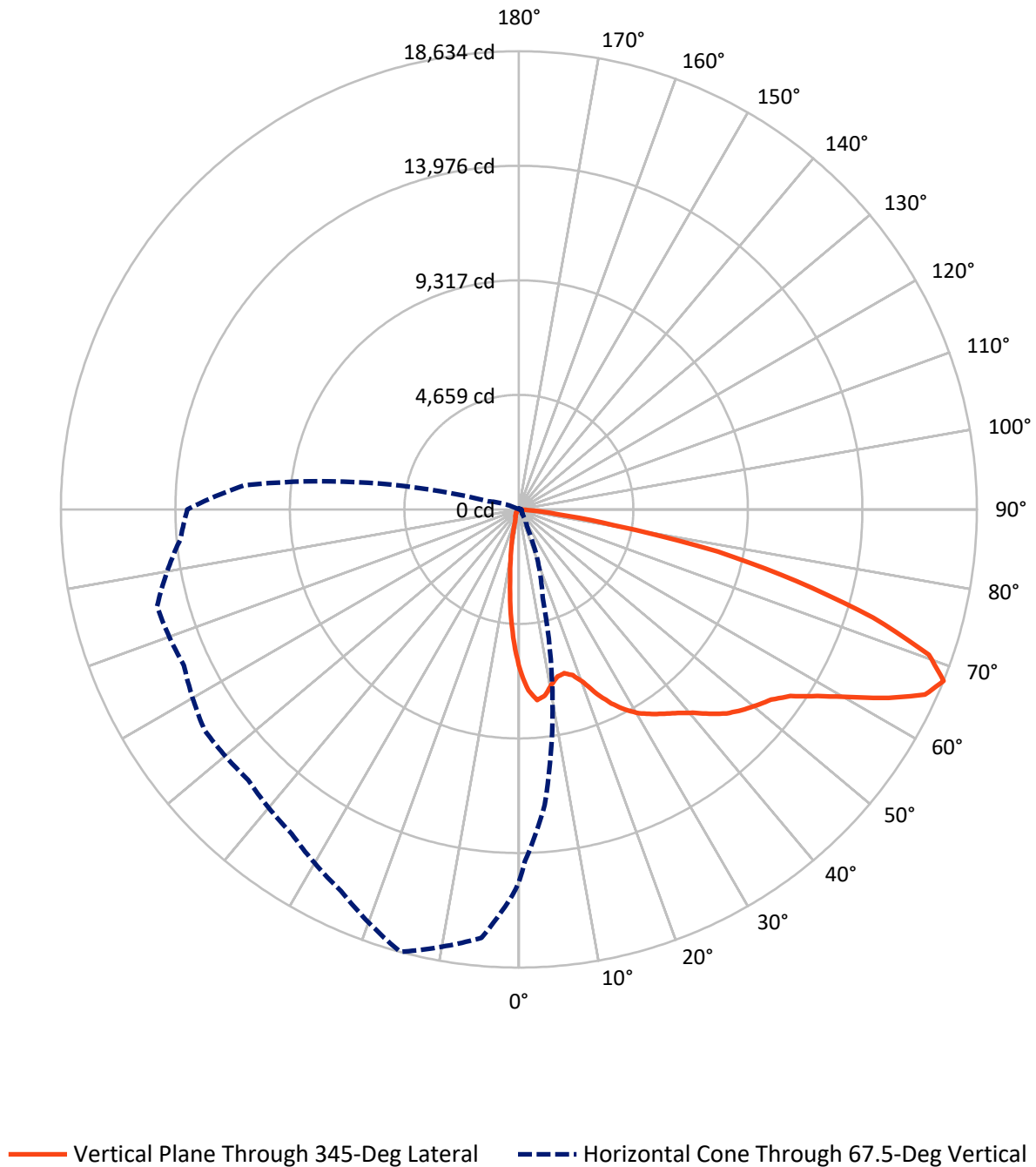
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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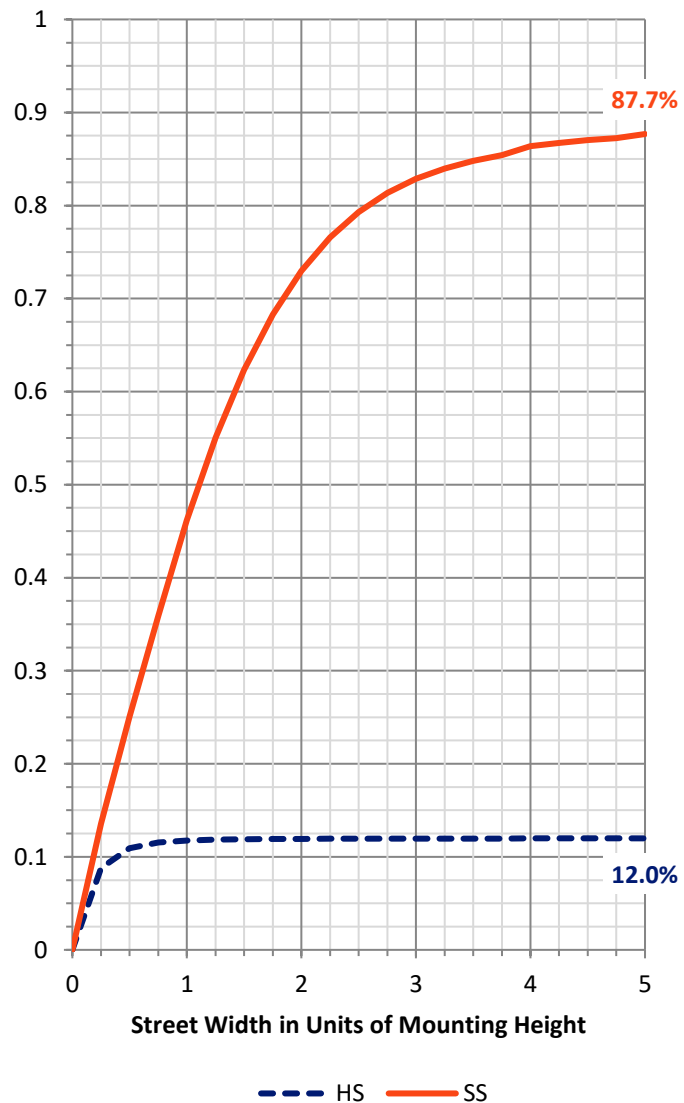
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2436.8	0.0	2436.8
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	17696.2	0.0	17696.2
	% Fixture	87.9	0.0	87.9
Total	Lumens	20133.0	0.0	20133.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.3	2.5
10°-20°	1001.9	5.0
20°-30°	1422.7	7.1
30°-40°	2101.4	10.4
40°-50°	3030.7	15.1
50°-60°	4254.4	21.1
60°-70°	4959.4	24.6
70°-80°	2535.4	12.6
80°-90°	323.8	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	20133.0	100.0
0°-180°	20133.0	100.0

Coefficient of Utilization



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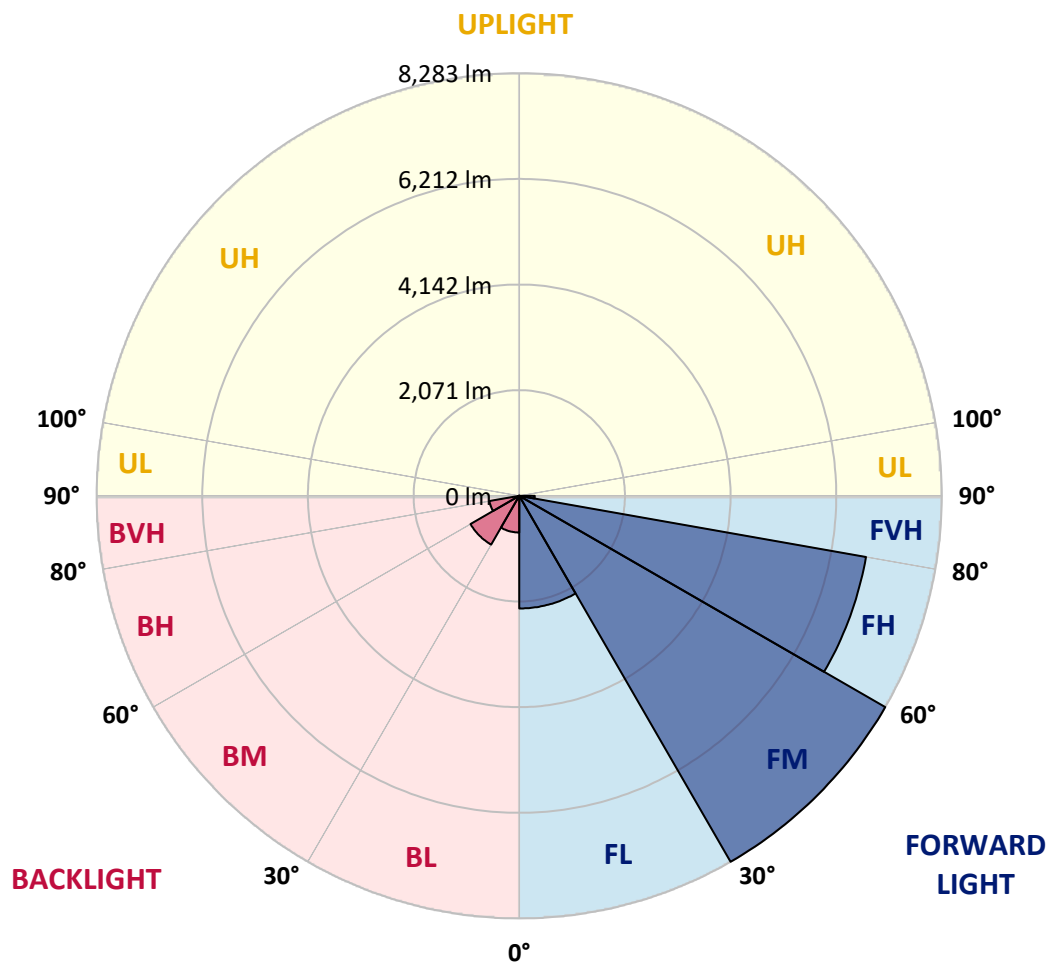
CATALOG NUMBER: GLEON-SA6B-830-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2208.2	11.0			
FM	(30°-60°)	8283.0	41.1			
FH	(60°-80°)	6900.9	34.3			G3/7500
FVH	(80°-90°)	304.1	1.5			G3/500
BL	(0°-30°)	719.7	3.6	B2/1000		
BM	(30°-60°)	1103.4	5.5	B2/2500		
BH	(60°-80°)	593.9	2.9	B2/1000		G2/1000
BVH	(80°-90°)	19.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6558.3	6558.3	6558.3	6558.3	6558.3	6558.3	6558.3	6558.3	6558.3	6558.3	6558.3
2.5°	7181.1	7125.8	7064.8	6865.4	6680.4	6468.6	6296.0	6175.8	6025.1	5829.6	5780.0
5°	7129.6	7070.5	6878.8	6435.2	6047.1	5669.4	5305.0	5091.4	4826.2	4557.2	4490.5
7.5°	6611.7	6549.7	6273.1	5665.5	5142.9	4597.3	4124.2	3831.4	3531.9	3285.8	3155.2
10°	6072.8	6005.1	5694.2	4956.9	4313.1	3819.9	3472.8	3193.3	2910.0	2646.8	2436.9
12.5°	5701.8	5613.1	5275.4	4439.9	3879.1	3544.3	3220.0	2885.2	2501.8	2219.5	1988.7
15°	5546.3	5445.2	5088.5	4240.6	3725.5	3332.6	2910.0	2498.9	2049.7	1726.4	1514.6
17.5°	5666.5	5534.9	5152.4	4227.2	3532.9	2997.8	2463.6	1981.0	1493.6	1166.5	1015.8
20°	6074.7	5902.1	5416.6	4223.4	3299.2	2600.0	1922.8	1377.3	984.3	791.6	712.5
22.5°	6717.6	6489.6	5796.2	4253.9	3057.9	2182.3	1388.7	935.7	739.2	639.0	592.3
25°	7494.0	7229.8	6342.7	4361.7	2846.1	1776.0	1009.1	739.2	623.8	550.3	511.2
27.5°	8232.2	8017.6	7033.3	4517.2	2682.1	1447.9	819.3	626.6	533.2	484.5	453.1
30°	8969.5	8699.6	7741.9	4702.2	2484.6	1225.6	720.1	571.3	477.9	426.3	406.3
32.5°	9505.5	9281.4	8297.1	4835.7	2273.8	1080.6	643.8	522.7	446.4	393.9	364.3
35°	10136.0	9882.3	8773.0	4865.3	2138.4	989.1	579.0	470.2	387.2	340.5	309.0
37.5°	10817.0	10501.3	9322.4	4800.4	2032.5	944.3	530.3	446.4	361.5	313.8	280.4
40°	11570.5	11213.8	9849.8	4707.0	1928.6	929.0	493.1	428.3	341.5	292.8	258.5
42.5°	12364.0	11943.4	10306.7	4608.7	1862.8	876.5	489.3	410.1	326.2	273.7	239.4
45°	13030.7	12604.4	10776.0	4576.3	1816.0	819.3	505.5	397.7	315.7	258.5	225.1
47.5°	13562.0	13158.5	11256.7	4648.8	1789.3	766.9	460.7	413.9	310.0	245.1	212.7
50°	14196.3	13739.4	11933.9	4865.3	1750.2	714.4	416.8	474.0	310.0	236.5	202.2
52.5°	14991.7	14539.6	12689.3	5201.0	1672.0	641.9	374.8	475.0	312.8	225.1	188.9
55°	15992.3	15664.2	13768.0	5569.2	1547.1	535.1	324.3	408.2	301.4	204.1	176.5
57.5°	16951.8	16683.8	14751.4	5821.0	1380.1	417.8	282.3	329.1	275.6	179.3	157.4
59°	17214.1	16921.3	15111.9	5832.5	1255.2	364.3	261.3	271.8	269.9	167.9	145.9
60°	17214.1	16903.1	15215.9	5771.4	1164.6	334.8	248.0	242.3	281.4	160.2	139.3
62.5°	16902.2	16465.3	14878.2	5358.4	950.0	285.2	216.5	200.3	252.8	144.0	123.0
65°	16253.6	15617.4	13728.0	4611.6	847.0	261.3	186.9	164.1	175.5	126.9	107.8
67.5°	15172.0	14309.8	12069.3	3725.5	806.0	254.7	161.2	139.3	132.6	108.7	94.4
70°	13267.3	12310.6	10055.8	2929.1	770.7	251.8	135.4	117.3	106.8	91.6	80.1
72.5°	9656.2	8658.5	7139.1	2290.1	749.7	257.5	108.7	98.2	87.7	71.5	62.0
75°	5523.4	4870.1	4012.6	1512.7	639.0	246.1	83.9	82.0	63.0	51.5	42.9
77.5°	2853.8	2767.0	2404.5	580.9	306.2	107.8	55.3	47.7	37.2	31.5	25.8
80°	1231.3	1218.0	1053.9	167.9	81.1	60.1	31.5	20.0	17.2	13.4	10.5
82.5°	425.4	425.4	374.8	56.3	36.2	29.6	3.8	0.0	0.0	0.0	0.0
85°	85.8	96.3	67.7	0.0	12.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6558.3	6558.3	6558.3	6558.3	6558.3	6558.3	6558.3	6558.3	6558.3	6558.3	6558.3
2.5°	5719.9	5604.5	5596.9	5524.4	5433.8	5392.8	5368.9	5410.9	5462.4	5468.1	5545.4
5°	4439.9	4318.8	4369.3	4240.6	4266.3	4240.6	4198.6	4206.2	4229.1	4157.6	4246.3
7.5°	3118.0	3026.4	3084.6	3050.2	3096.0	3114.1	3088.4	3050.2	2937.7	2924.3	3001.6
10°	2350.1	2246.2	2184.2	2119.3	2133.6	2163.2	2153.7	2126.0	2054.5	2058.3	2132.7
12.5°	1888.5	1772.1	1649.1	1489.8	1450.7	1472.7	1450.7	1434.5	1365.8	1371.6	1437.4
15°	1432.6	1337.2	1208.5	1080.6	1011.0	1017.7	956.7	913.7	870.8	819.3	859.4
17.5°	967.1	909.0	870.8	832.7	749.7	730.6	653.3	570.4	537.9	514.1	531.3
20°	684.8	653.3	638.1	636.2	588.5	564.6	489.3	437.8	421.6	416.8	427.3
22.5°	572.3	549.4	527.4	515.0	491.2	463.5	406.3	380.6	369.1	363.4	371.0
25°	497.9	480.7	457.8	436.8	427.3	397.7	356.7	337.6	330.0	324.3	328.1
27.5°	442.6	427.3	400.6	387.2	379.6	353.9	318.6	303.3	296.6	294.7	293.8
30°	398.7	384.4	359.6	344.3	331.0	308.1	287.1	271.8	265.2	263.2	261.3
32.5°	354.8	343.4	327.2	311.9	297.6	276.6	258.5	246.1	235.6	233.7	232.7
35°	299.5	288.0	279.5	278.5	265.2	245.1	231.8	215.6	207.0	204.1	205.1
37.5°	266.1	250.8	231.8	238.4	234.6	220.3	202.2	186.0	177.4	175.5	175.5
40°	245.1	228.9	207.0	195.5	207.0	204.1	175.5	159.3	150.7	149.7	147.8
42.5°	225.1	208.9	184.1	165.0	170.7	179.3	151.7	136.4	127.8	125.9	123.0
45°	210.8	193.6	166.0	144.0	132.6	150.7	129.7	110.6	105.9	102.1	100.1
47.5°	197.4	181.2	149.7	124.9	105.9	108.7	104.0	90.6	84.9	81.1	80.1
50°	186.0	168.8	135.4	106.8	87.7	80.1	83.9	71.5	66.8	63.0	61.0
52.5°	172.6	156.4	120.2	92.5	73.4	63.0	63.9	56.3	51.5	48.6	47.7
55°	162.1	145.9	107.8	81.1	64.9	51.5	45.8	43.9	41.0	39.1	38.2
57.5°	147.8	132.6	95.4	68.7	55.3	42.0	35.3	35.3	34.3	32.4	31.5
59°	139.3	125.9	87.7	62.0	50.6	36.2	31.5	32.4	31.5	29.6	28.6
60°	132.6	120.2	82.0	57.2	47.7	33.4	28.6	30.5	29.6	27.7	26.7
62.5°	117.3	108.7	70.6	47.7	42.0	26.7	23.8	25.8	25.8	24.8	23.8
65°	103.0	93.5	60.1	40.1	39.1	22.9	19.1	22.9	23.8	21.9	20.0
67.5°	89.7	80.1	52.5	32.4	36.2	18.1	14.3	19.1	25.8	20.0	18.1
70°	76.3	66.8	41.0	25.8	38.2	12.4	11.4	17.2	30.5	21.9	17.2
72.5°	59.1	51.5	28.6	19.1	41.0	8.6	8.6	14.3	34.3	23.8	16.2
75°	41.0	33.4	17.2	11.4	33.4	5.7	5.7	13.4	32.4	21.9	15.3
77.5°	23.8	18.1	5.7	1.0	17.2	0.0	1.0	9.5	22.9	13.4	6.7
80°	8.6	3.8	0.0	0.0	10.5	0.0	0.0	0.0	1.9	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6558.3	6558.3	6558.3	6558.3	6558.3	6558.3	6558.3	6558.3	6558.3	6558.3	6558.3
2.5°	5565.4	5694.2	5809.6	5984.1	6191.1	6429.5	6634.6	6854.9	7061.9	7147.7	7206.9
5°	4264.4	4423.7	4609.7	4866.3	5207.7	5628.3	6022.3	6467.7	6946.5	7185.9	7411.0
7.5°	3014.9	3177.1	3407.9	3680.7	4093.7	4594.4	5109.5	5724.7	6373.3	6751.9	7124.8
10°	2168.0	2367.3	2582.9	2955.8	3375.5	3850.5	4380.8	5067.5	5790.5	6210.2	6659.4
12.5°	1475.5	1702.5	2028.7	2446.5	2939.6	3405.0	3865.7	4521.0	5360.3	5776.2	6257.8
15°	885.1	1011.0	1356.3	1839.9	2444.6	3024.5	3529.0	4186.2	5080.9	5590.2	6090.9
17.5°	545.6	603.8	791.6	1188.4	1823.7	2557.1	3248.6	4072.7	5120.9	5740.9	6276.9
20°	434.9	457.8	517.9	702.0	1208.5	2042.1	2932.9	4049.8	5448.1	6211.1	6786.2
22.5°	377.7	399.6	439.7	510.3	760.2	1528.9	2633.4	4070.8	5917.3	6916.0	7587.4
25°	332.9	351.9	390.1	448.3	557.0	1076.8	2313.0	4164.3	6528.7	7790.6	8504.0
27.5°	297.6	313.8	349.1	402.5	477.9	751.6	1949.6	4277.8	7253.6	8685.2	9389.1
30°	265.2	279.5	310.9	360.5	414.9	578.0	1550.9	4355.0	7979.4	9389.1	10021.5
32.5°	237.5	248.0	276.6	318.6	360.5	460.7	1178.9	4342.6	8518.3	9974.8	10476.5
35°	208.9	219.4	244.2	280.4	313.8	380.6	927.1	4110.9	8987.6	10582.3	10997.2
37.5°	177.4	190.8	214.6	247.0	269.9	334.8	749.7	3831.4	9463.5	11276.7	11578.1
40°	150.7	164.1	185.0	220.3	234.6	317.6	576.1	3490.9	9998.6	12053.1	12215.2
42.5°	124.9	137.3	159.3	189.8	221.3	273.7	426.3	3101.7	10512.7	12716.9	12796.1
45°	101.1	113.5	136.4	166.9	236.5	227.0	330.0	2684.9	10927.6	13269.2	13294.9
47.5°	80.1	91.6	115.4	157.4	220.3	181.2	235.6	2357.8	11275.8	13700.3	13632.6
50°	62.0	71.5	96.3	180.3	192.7	149.7	178.4	2249.0	11587.6	13967.4	13791.9
52.5°	48.6	57.2	79.2	168.8	149.7	124.0	149.7	2351.1	12014.9	14188.6	13881.5
55°	39.1	47.7	62.0	96.3	102.1	104.9	127.8	2446.5	12752.2	14707.5	14410.9
57.5°	32.4	41.0	50.6	67.7	77.3	88.7	113.5	2457.0	13621.1	15569.7	15289.3
59°	29.6	37.2	45.8	60.1	67.7	81.1	106.8	2399.7	13927.3	15883.5	15743.3
60°	27.7	35.3	42.9	55.3	63.0	76.3	103.0	2345.4	13940.7	15872.1	15936.9
62.5°	23.8	31.5	38.2	46.7	53.4	64.9	92.5	2144.1	13376.0	15352.3	15820.6
65°	21.0	27.7	34.3	40.1	45.8	58.2	83.9	1776.9	12411.7	14513.9	15024.2
67.5°	19.1	23.8	31.5	35.3	41.0	51.5	74.4	1266.6	11207.1	13488.6	13819.5
70°	17.2	22.9	28.6	32.4	37.2	44.8	63.9	727.7	9463.5	11987.3	12222.9
72.5°	16.2	21.9	25.8	30.5	33.4	40.1	58.2	342.4	6929.3	9602.8	10218.0
75°	14.3	20.0	23.8	28.6	31.5	36.2	49.6	164.1	4608.7	6949.3	7648.5
77.5°	8.6	16.2	21.9	25.8	27.7	31.5	41.0	94.4	2941.5	4810.0	5665.5
80°	0.0	5.7	16.2	21.9	23.8	26.7	31.5	74.4	1573.8	2747.9	3298.2
82.5°	0.0	0.0	11.4	17.2	16.2	18.1	23.8	46.7	709.6	1796.0	2024.0
85°	0.0	0.0	3.8	13.4	11.4	8.6	16.2	16.2	155.5	909.0	1134.1
87.5°	0.0	0.0	0.0	1.0	5.7	3.8	6.7	1.9	1.0	67.7	274.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P324640

CATALOG NUMBER: GLEON-SA6B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6558.3	6558.3	6558.3	6558.3	6558.3	6558.3	6558.3	6558.3	6558.3	6558.3
2.5°	7413.8	7484.4	7603.6	7659.9	7632.3	7514.9	7374.7	7231.7	7147.7	7181.1
5°	7869.8	8233.1	8443.0	8512.6	8396.2	8133.0	7788.7	7334.7	7173.5	7129.6
7.5°	7869.8	8553.6	8986.6	9063.0	8803.5	8287.5	7641.8	6933.1	6697.5	6611.7
10°	7593.2	8524.1	9127.8	9248.9	8886.5	8114.9	7249.8	6441.0	6161.5	6072.8
12.5°	7281.3	8283.7	8919.9	9086.8	8789.2	7943.2	6978.0	6108.1	5779.0	5701.8
15°	7089.6	7988.0	8514.5	8635.7	8509.7	7843.0	6913.1	6007.9	5620.7	5546.3
17.5°	7158.2	7759.1	7948.9	8019.5	8104.4	7807.8	7089.6	6227.3	5737.1	5666.5
20°	7416.7	7517.8	7419.6	7508.3	7737.2	7842.1	7510.2	6757.6	6169.1	6074.7
22.5°	7855.4	7392.9	7117.2	7152.5	7431.0	7955.6	8153.0	7514.9	6835.8	6717.6
25°	8366.7	7494.0	6949.3	6917.9	7204.0	8105.3	8740.6	8339.0	7624.6	7494.0
27.5°	9009.5	7721.0	6915.0	6883.5	7124.8	8245.5	9228.9	9153.6	8455.4	8232.2
30°	9505.5	7944.2	7017.1	6944.6	7204.0	8342.8	9620.9	9845.1	9117.3	8969.5
32.5°	9861.3	8207.4	7183.0	7078.1	7427.2	8510.7	9923.3	10478.4	9729.7	9505.5
35°	10132.2	8493.5	7451.0	7278.4	7734.3	8765.4	10206.5	11152.7	10381.1	10136.0
37.5°	10385.9	8895.1	7869.8	7663.7	8216.0	9175.5	10506.0	11917.7	11109.8	10817.0
40°	10739.7	9350.0	8515.5	8332.3	9025.8	9734.4	10879.9	12715.0	11938.6	11570.5
42.5°	11093.6	9838.4	9176.5	9226.0	10035.8	10413.5	11362.5	13558.2	12757.0	12364.0
45°	11416.9	10342.0	10117.8	10346.8	10973.4	11158.4	11842.3	14045.6	13410.3	13030.7
47.5°	11705.0	10971.5	11053.5	11663.0	12039.7	11832.8	12200.9	14466.2	13896.8	13562.0
50°	12039.7	11786.0	12286.8	13149.0	13267.3	12443.2	12527.1	14964.1	14465.2	14196.3
52.5°	12406.0	12644.4	13652.6	14412.8	14374.6	13106.1	12855.2	15522.0	15244.5	14991.7
55°	12821.9	13337.9	14855.3	15595.5	15563.1	13846.2	13398.9	16211.6	16221.2	15992.3
57.5°	13439.0	13934.9	15671.8	16552.1	16606.5	14700.8	14320.3	16984.2	17104.4	16951.8
59°	13881.5	14322.2	15995.1	16951.8	17173.1	15361.8	14993.6	17432.5	17353.3	17214.1
60°	14209.6	14568.2	16155.4	17160.7	17502.1	15810.1	15490.6	17695.7	17382.9	17214.1
62.5°	15021.3	15104.3	16444.4	17397.2	17880.8	16805.8	16888.8	18144.0	17177.8	16902.2
65°	15400.0	15442.9	16440.5	16973.7	17514.5	17581.3	18157.4	18157.4	16677.1	16253.6
67.5°	15241.6	15034.7	15625.1	15569.7	16109.6	17120.6	18634.3	17491.6	15719.5	15172.0
70°	13954.0	13157.6	12895.3	12919.1	13332.1	14891.6	17690.0	15532.5	13907.3	13267.3
72.5°	11610.5	9700.1	9052.5	9791.6	9899.4	11444.6	15075.7	11697.3	10256.1	9656.2
75°	9338.6	6837.7	5784.8	6565.0	6748.1	8375.3	11662.0	7285.1	5990.8	5523.4
77.5°	6709.0	4908.2	4150.9	4096.5	4333.1	5311.7	8275.1	3666.4	3057.9	2853.8
80°	3811.4	3230.5	3478.5	3282.0	3401.2	3321.1	3931.5	1608.1	1317.2	1231.3
82.5°	2300.6	1909.5	2067.8	1721.6	2178.5	1897.1	1514.6	515.0	447.3	425.4
85°	1496.5	1043.5	543.7	364.3	750.6	1212.3	338.6	140.2	107.8	85.8
87.5°	516.0	266.1	26.7	11.4	80.1	226.0	12.4	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

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.

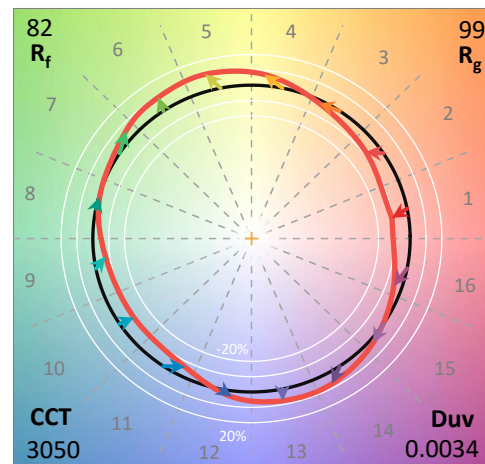
Test Information

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
 R_f: 81.5
 R_g: 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

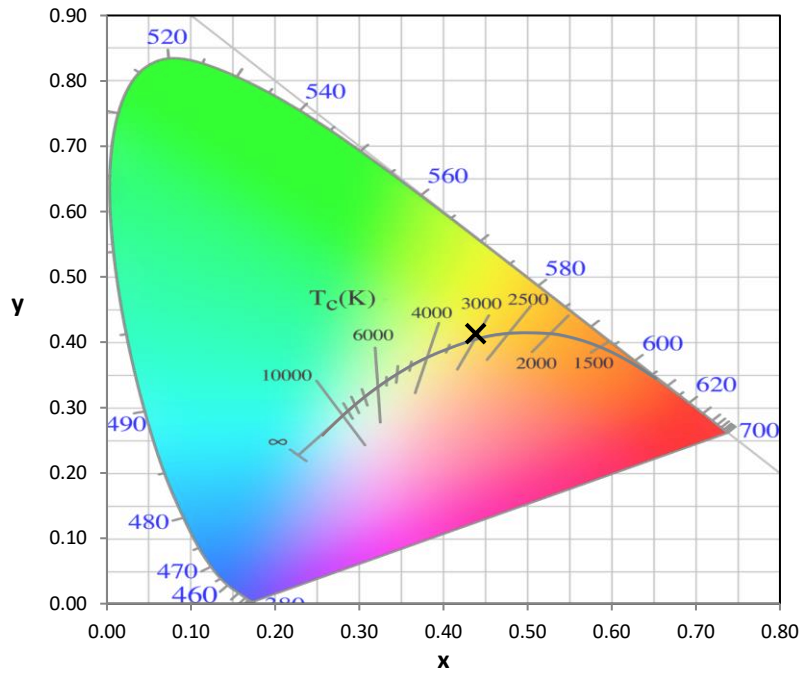
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

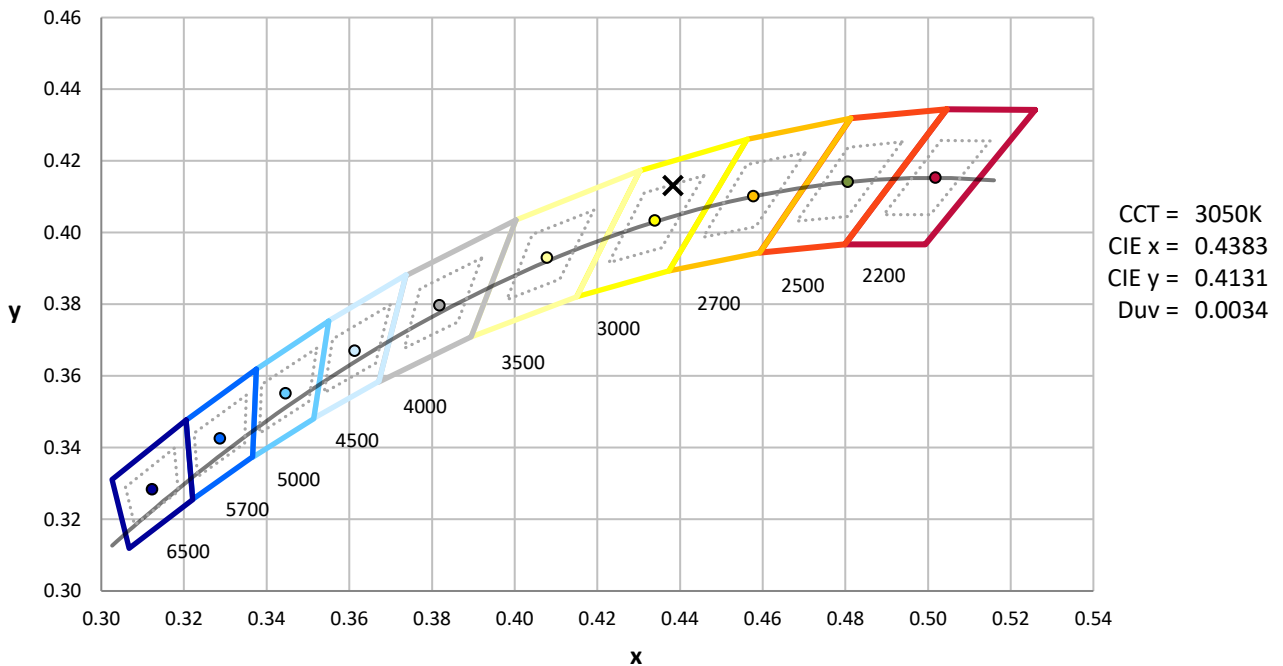
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

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CIE 1931 Chromaticity Diagram

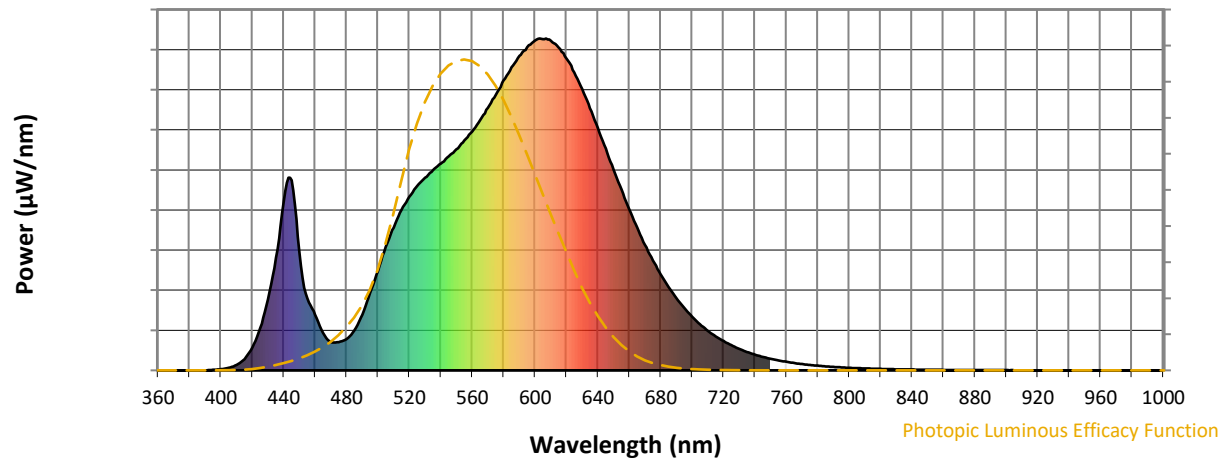


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

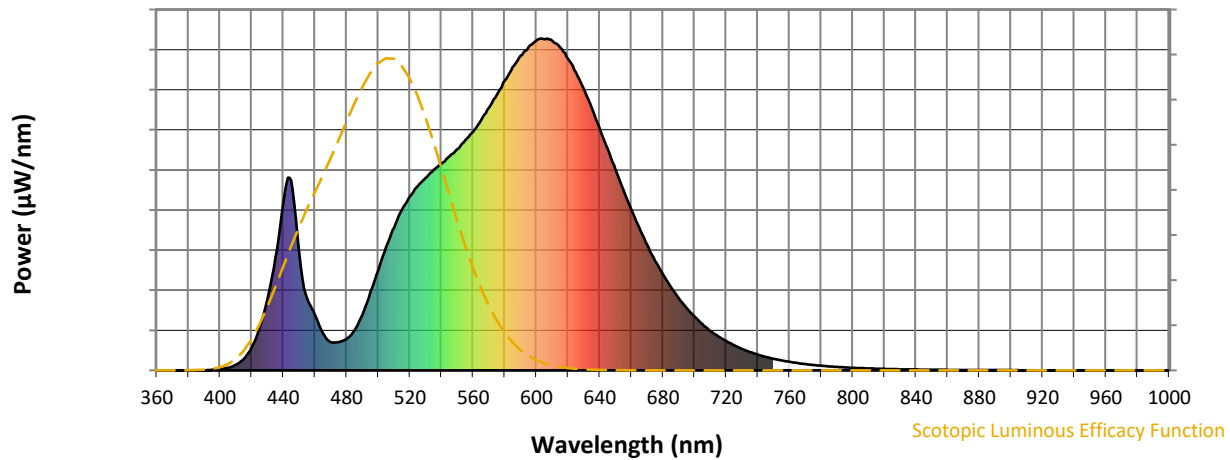


Photopic Lumens: NR

λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	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



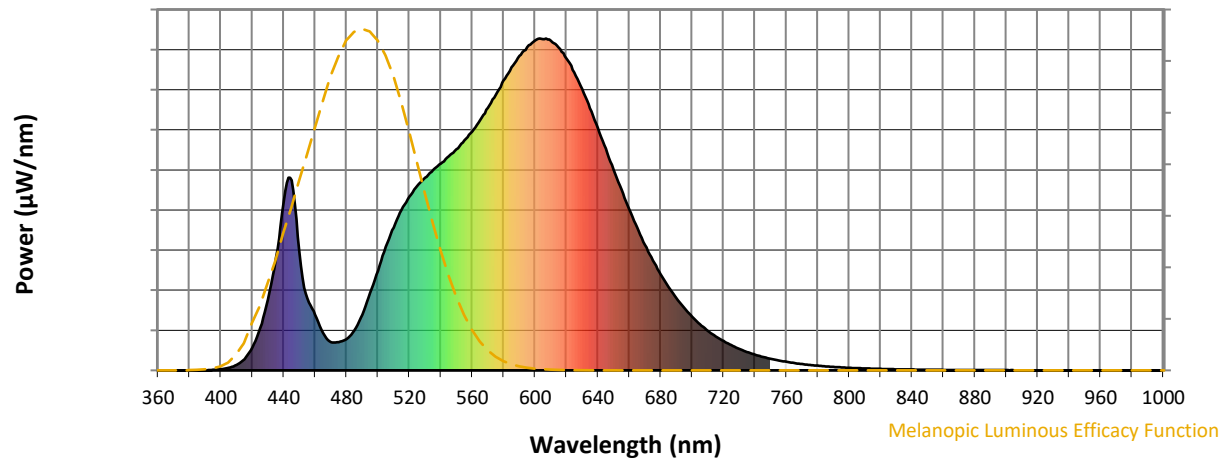
Scotopic Lumens: NR

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			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.32

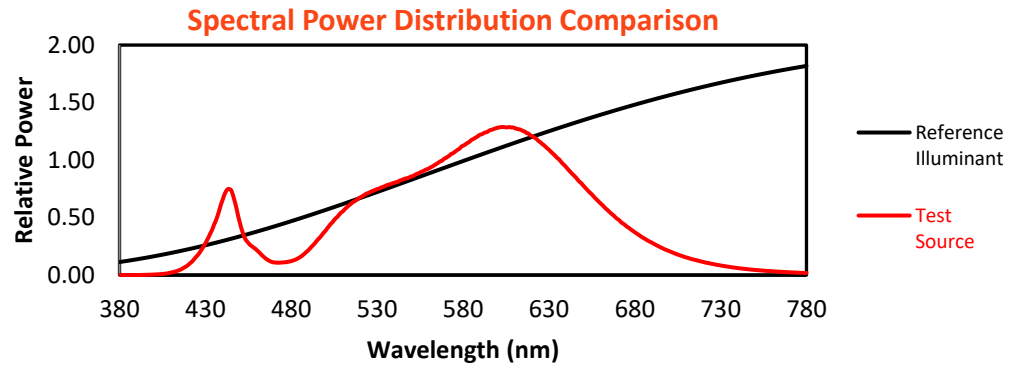
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168	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

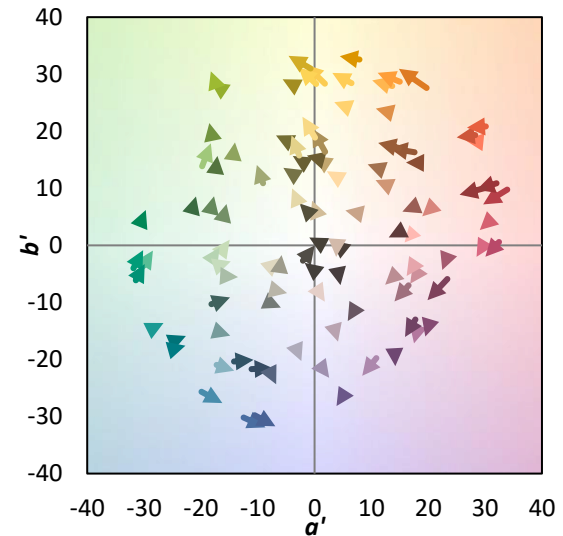
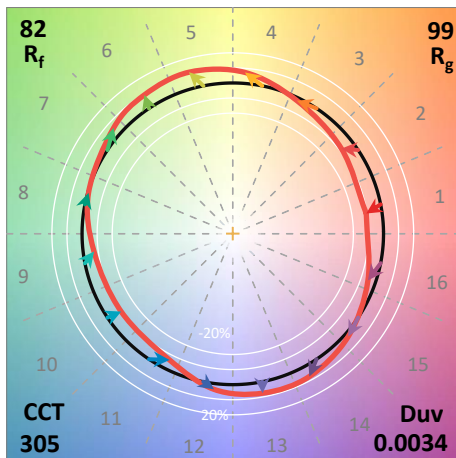
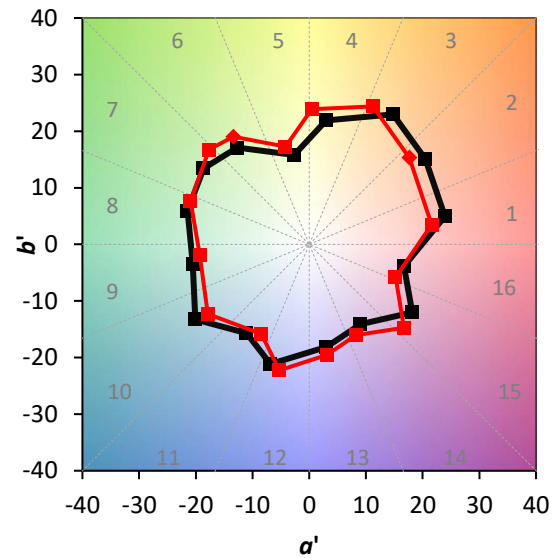
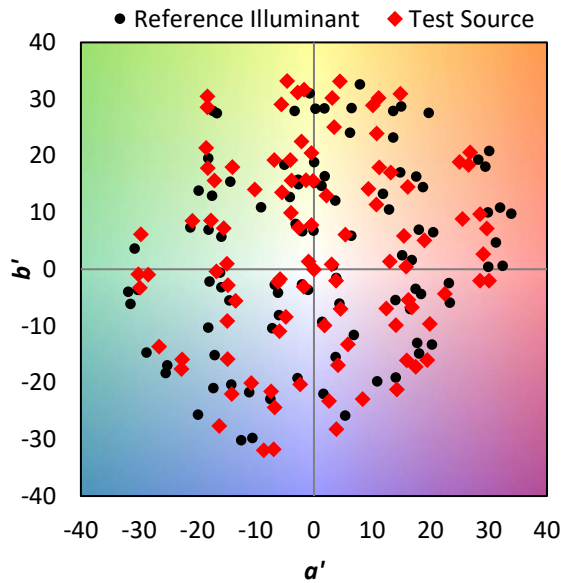
TM-30-18

Summary

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

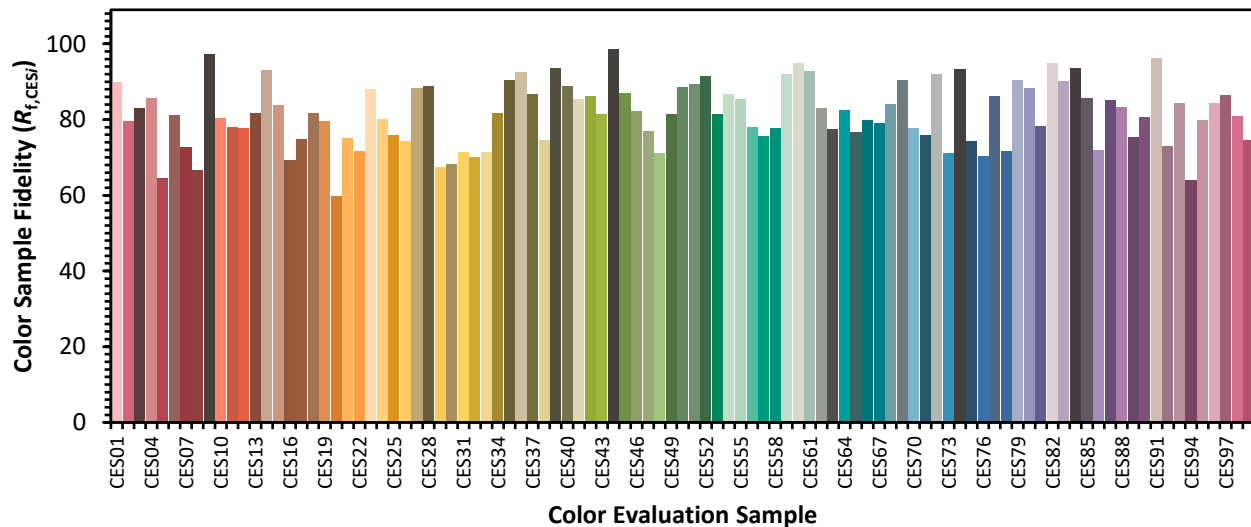


Color Vector Graphics

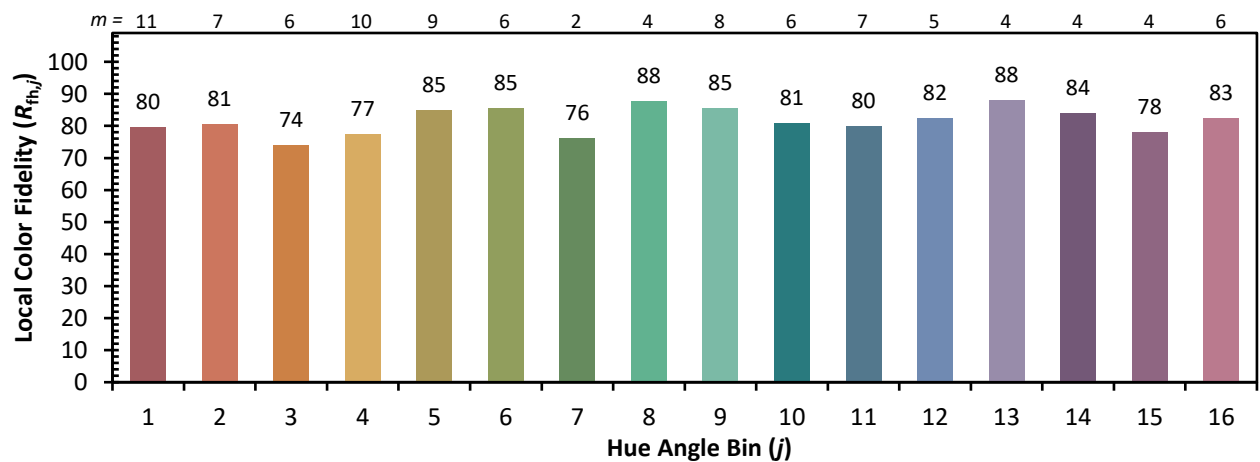
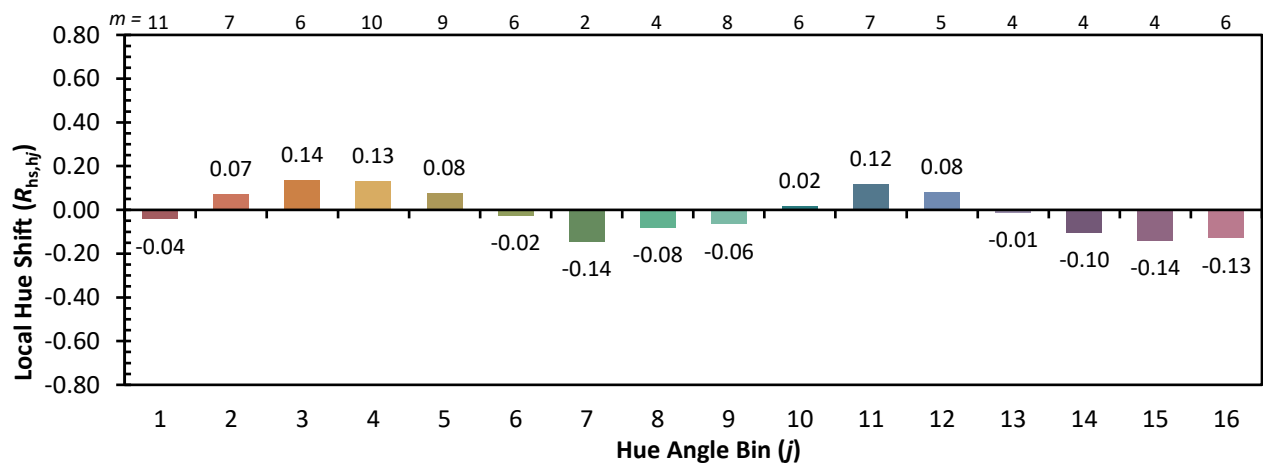
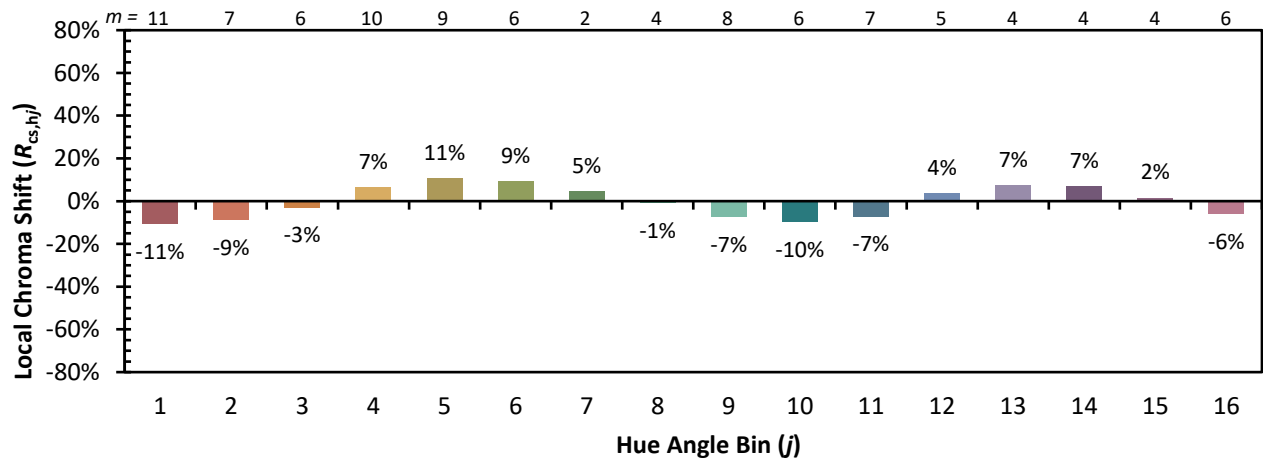


Individual Sample Fidelity Index ($R_{f,i}$)

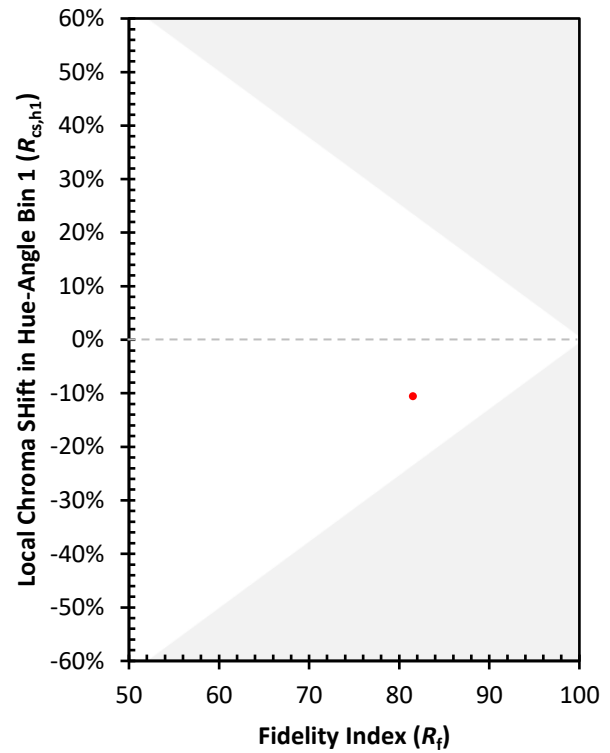
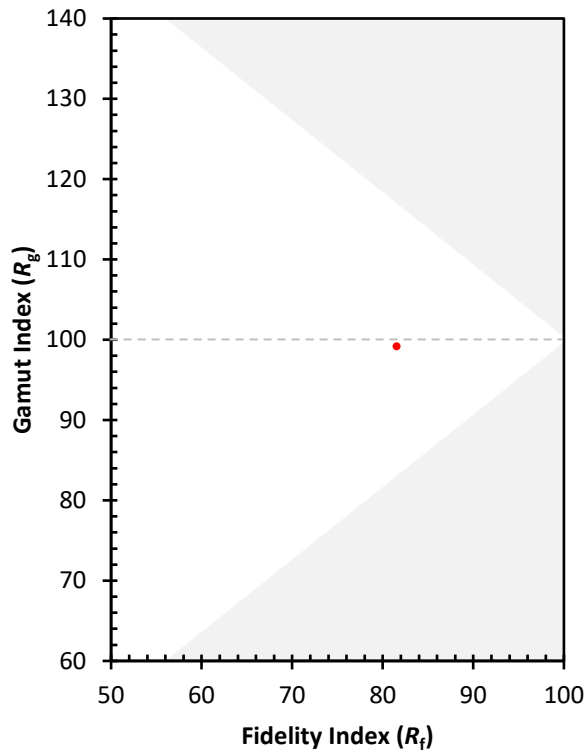
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 94
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)