

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: P324316

Luminaire Tested: **GLEON-SA2B-830-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324316
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-SA2B-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA 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: 6888 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

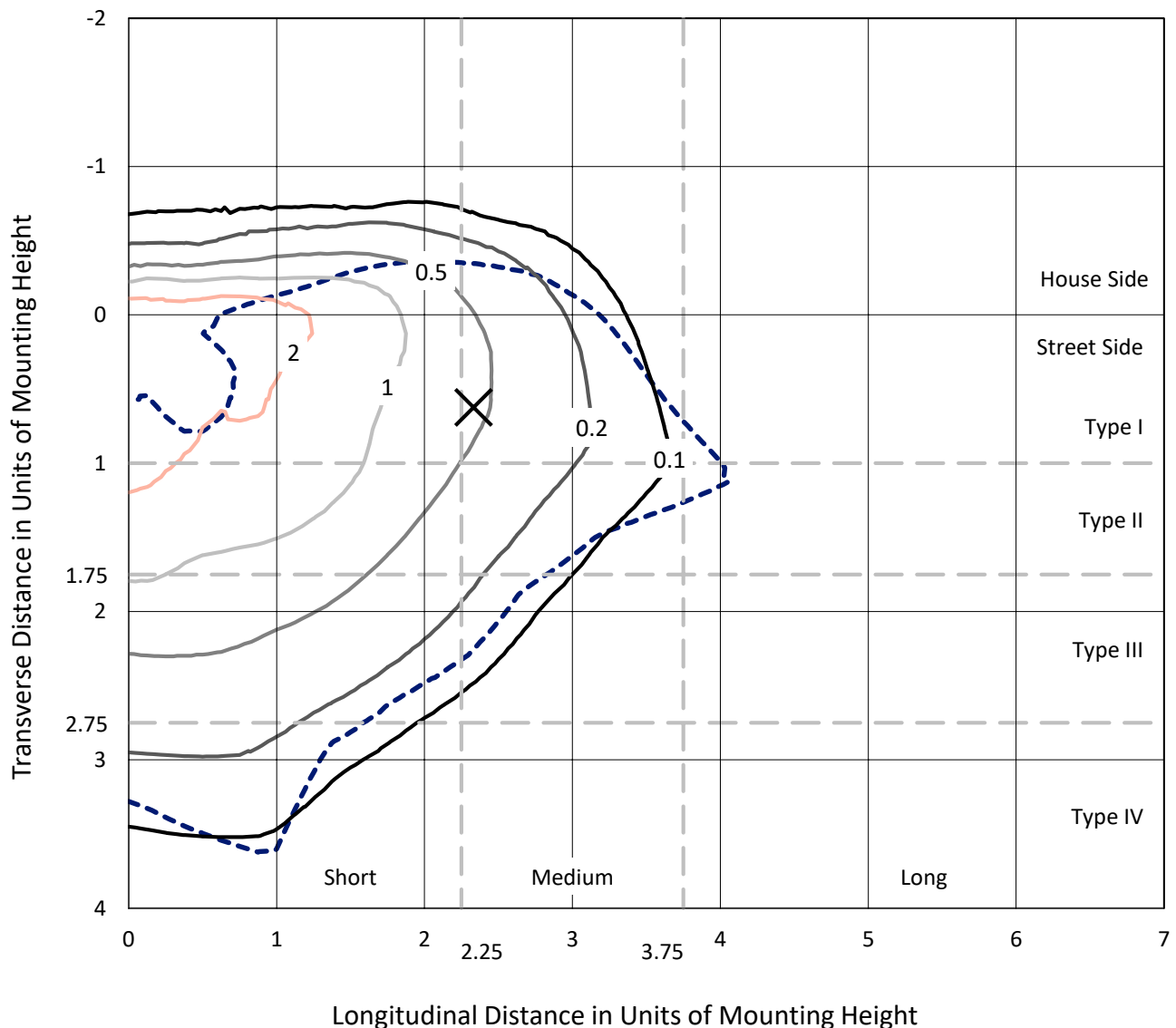
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

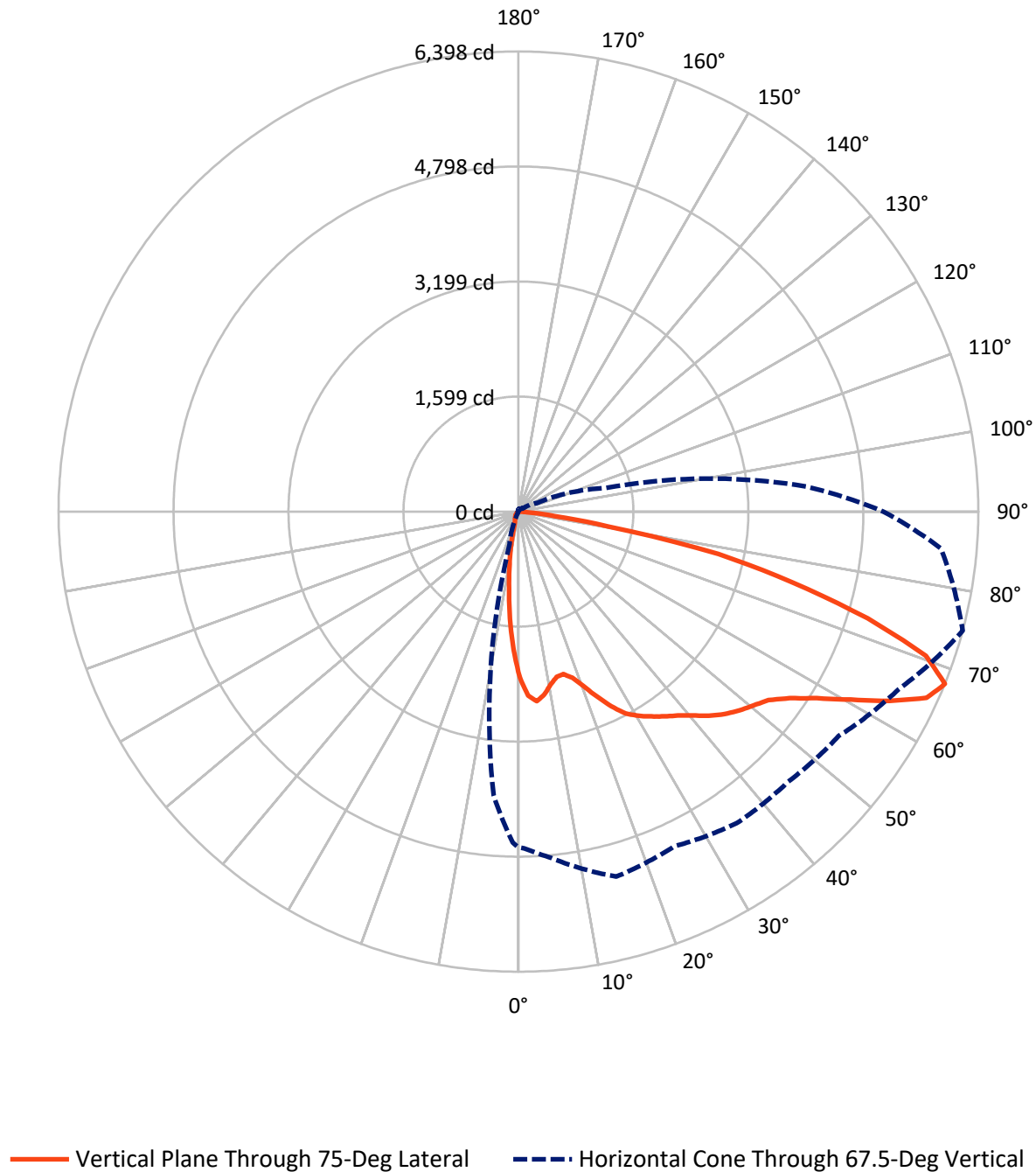
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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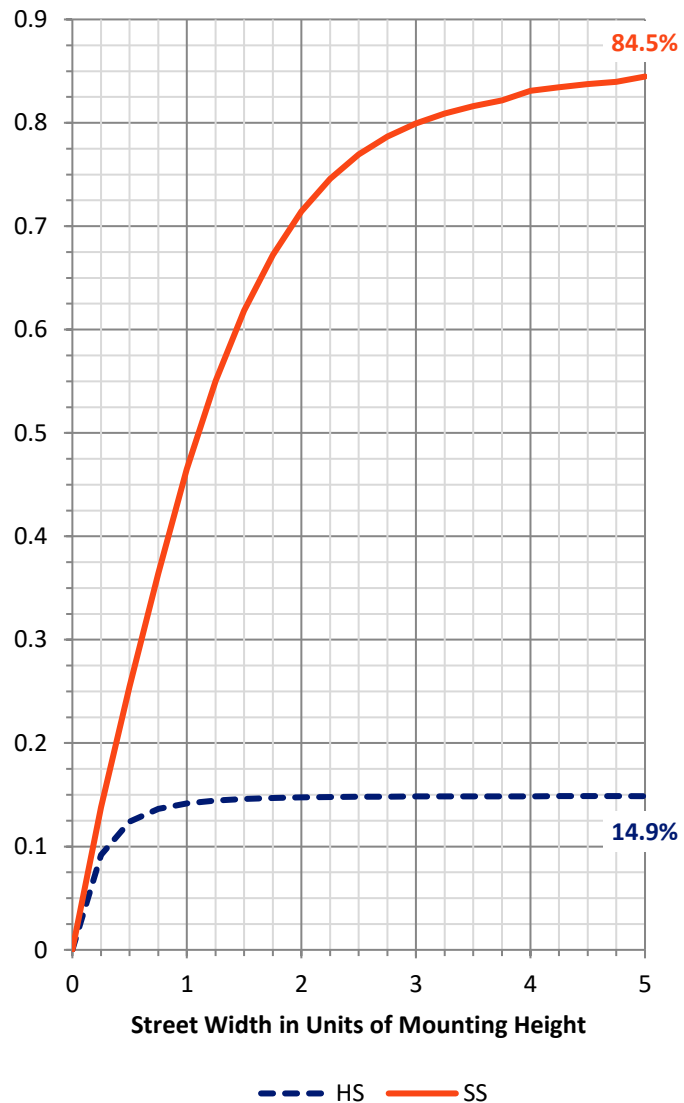
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1033.6	0.0	1033.6
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	5854.4	0.0	5854.4
	% Fixture	85.0	0.0	85.0
Total	Lumens	6888.0	0.0	6888.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.3	2.5
10°-20°	345.1	5.0
20°-30°	488.3	7.1
30°-40°	717.9	10.4
40°-50°	1031.9	15.0
50°-60°	1452.6	21.1
60°-70°	1696.5	24.6
70°-80°	865.5	12.6
80°-90°	115.0	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°	6888.0	100.0
0°-180°	6888.0	100.0

Coefficient of Utilization



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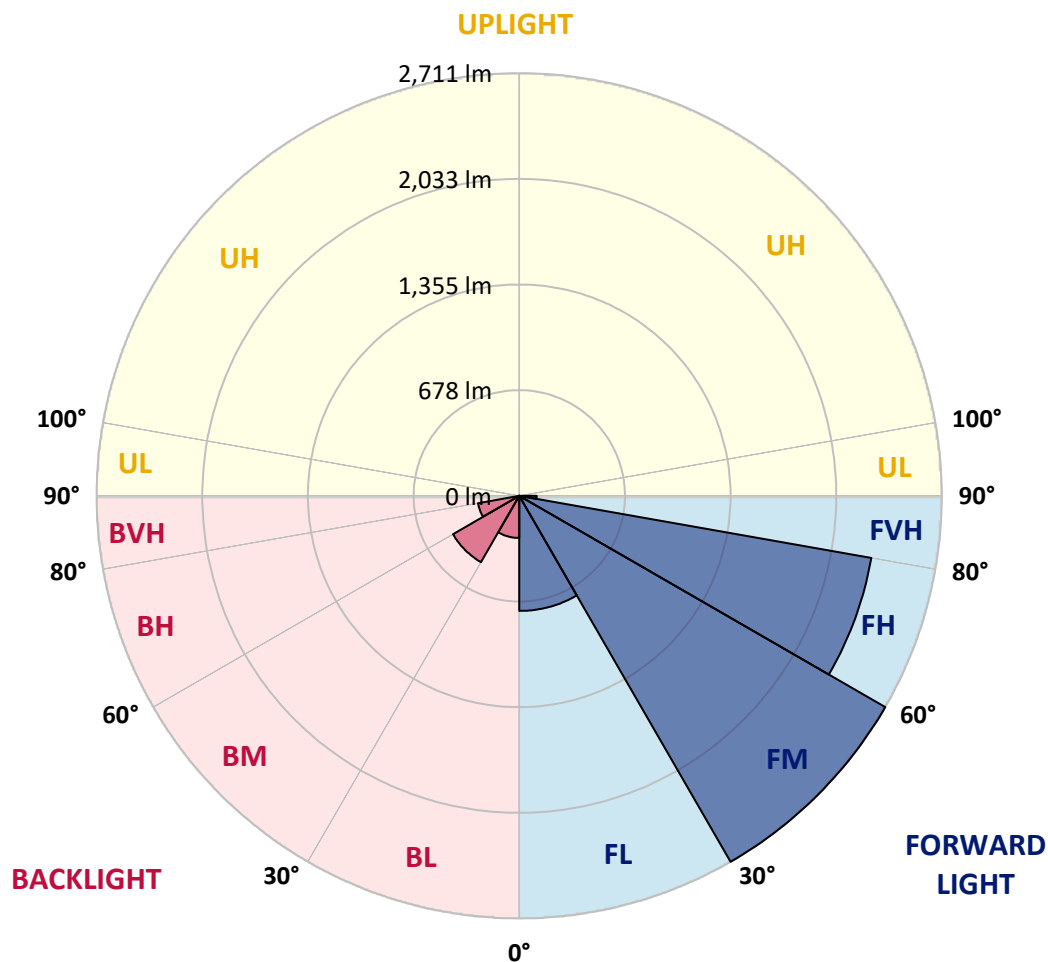
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	738.4	10.7			
FM	(30°-60°)	2711.0	39.4			
FH	(60°-80°)	2293.5	33.3			G2/5000
FVH	(80°-90°)	111.5	1.6			G2/225
BL	(0°-30°)	270.3	3.9	B1/500		
BM	(30°-60°)	491.3	7.1	B1/1000		
BH	(60°-80°)	268.5	3.9	B1/500		G1/500
BVH	(80°-90°)	3.5	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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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2310.8	2310.8	2310.8	2310.8	2310.8	2310.8	2310.8	2310.8	2310.8	2310.8	2310.8
2.5°	2505.0	2508.9	2529.1	2576.1	2627.3	2631.2	2665.8	2630.2	2618.2	2560.7	2501.4
5°	2523.9	2538.9	2608.4	2746.4	2866.2	2904.7	2932.1	2862.2	2788.8	2648.5	2498.8
7.5°	2371.5	2396.6	2505.9	2765.0	2979.1	3073.7	3091.6	2982.3	2802.5	2571.5	2346.4
10°	2176.4	2205.1	2336.9	2655.4	2949.4	3111.5	3136.3	2993.1	2734.7	2446.9	2181.6
12.5°	2018.4	2052.1	2186.8	2532.0	2847.2	3026.7	3075.6	2956.9	2675.9	2358.4	2069.0
15°	1945.7	1984.2	2125.8	2452.4	2734.0	2875.3	2915.8	2864.5	2643.3	2344.4	2042.9
17.5°	1987.4	2029.2	2175.4	2459.3	2627.6	2688.0	2720.6	2741.5	2643.3	2428.9	2119.3
20°	2158.8	2203.8	2358.4	2528.8	2539.5	2517.0	2551.9	2625.4	2674.0	2589.5	2302.6
22.5°	2395.6	2448.5	2623.1	2647.9	2496.5	2411.3	2415.9	2531.1	2729.8	2793.1	2557.2
25°	2684.4	2749.0	2926.5	2825.4	2514.4	2348.3	2346.7	2453.4	2784.3	2997.0	2840.7
27.5°	2971.2	3042.4	3198.3	3042.0	2588.5	2336.9	2333.6	2429.9	2837.4	3178.4	3150.4
30°	3211.7	3280.9	3415.3	3199.0	2668.4	2363.7	2348.0	2455.0	2869.1	3296.2	3376.2
32.5°	3407.5	3462.9	3571.6	3307.0	2753.9	2415.5	2381.6	2522.2	2922.9	3395.7	3583.7
35°	3622.8	3681.2	3724.6	3409.8	2849.8	2490.3	2441.6	2628.9	3005.8	3496.9	3811.1
37.5°	3868.5	3926.6	3921.4	3503.7	2971.5	2613.9	2582.9	2798.0	3134.7	3597.1	4065.0
40°	4109.0	4168.4	4126.0	3606.5	3114.5	2817.9	2795.0	3051.8	3307.3	3725.3	4362.5
42.5°	4334.1	4398.4	4307.7	3703.8	3284.8	3075.0	3114.1	3378.8	3523.3	3883.2	4619.0
45°	4515.6	4581.2	4460.1	3798.4	3464.3	3386.9	3504.7	3740.9	3783.0	4016.7	4792.3
47.5°	4647.4	4709.4	4565.8	3893.0	3694.0	3768.4	3973.6	4120.8	4017.6	4132.5	4915.3
50°	4731.6	4779.9	4596.8	4011.4	3995.5	4213.4	4462.1	4533.8	4238.5	4236.9	5064.7
52.5°	4785.1	4806.9	4619.7	4135.1	4310.0	4698.0	4940.4	4962.9	4466.0	4351.8	5266.0
55°	4969.4	4987.1	4781.5	4284.9	4570.1	5122.5	5373.1	5352.2	4723.4	4576.6	5503.6
57.5°	5284.0	5302.6	5115.9	4500.2	4780.5	5384.8	5686.6	5724.2	5025.2	4892.4	5758.1
60°	5441.9	5476.5	5409.9	4773.0	4984.5	5552.5	5900.4	6020.1	5402.4	5308.8	6004.8
62.5°	5298.7	5348.9	5445.5	5075.5	5187.1	5644.9	5966.9	6126.1	5788.8	5794.0	6156.8
65°	5012.8	5053.0	5216.8	5241.2	5304.5	5633.4	5802.5	5978.0	6025.3	6239.7	6148.7
67.5°	4667.6	4682.6	4821.6	5254.3	5134.2	5290.2	5308.5	5438.3	5838.4	6397.6	5901.7
70°	4170.7	4178.8	4300.2	4817.4	4412.1	4446.4	4419.3	4445.7	5019.4	6012.9	5278.1
72.5°	3356.6	3377.1	3549.7	4000.7	3214.3	3115.4	3328.2	3316.4	3865.6	5080.1	3920.1
75°	2471.3	2506.9	2767.6	3222.5	2256.0	2040.6	2196.0	2237.4	2748.0	3929.5	2451.4
77.5°	1730.3	1756.8	2009.3	2368.9	1632.8	1459.2	1403.1	1452.3	1813.9	2842.7	1235.0
80°	996.8	1006.6	1167.8	1367.8	1100.3	1258.8	1140.4	1174.3	1086.9	1264.7	531.2
82.5°	652.3	653.9	716.9	814.1	685.2	796.2	589.3	753.4	668.6	508.0	172.9
85°	352.4	354.4	415.7	577.9	388.0	219.3	128.9	264.6	413.4	116.5	47.3
87.5°	38.8	35.6	125.3	210.1	107.7	19.9	6.9	29.7	66.2	7.5	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2310.8	2310.8	2310.8	2310.8	2310.8	2310.8	2310.8	2310.8	2310.8	2310.8	2310.8
2.5°	2471.0	2443.9	2376.4	2304.9	2247.5	2193.7	2139.5	2073.3	2022.0	2011.6	1994.6
5°	2418.2	2332.3	2190.7	2048.5	1933.9	1789.4	1697.7	1626.2	1556.4	1552.2	1538.1
7.5°	2233.5	2120.6	1921.2	1724.5	1563.3	1425.6	1286.6	1193.6	1120.5	1094.7	1079.4
10°	2056.0	1929.0	1680.1	1455.6	1311.7	1190.0	1092.1	994.9	906.8	846.1	818.7
12.5°	1932.0	1791.7	1517.3	1323.8	1220.7	1105.2	985.7	864.3	762.9	689.8	645.1
15°	1884.0	1734.2	1462.8	1271.6	1144.3	998.1	845.4	706.8	594.2	527.9	487.8
17.5°	1941.1	1766.9	1458.5	1207.9	1030.1	848.4	679.7	515.9	409.8	359.6	333.8
20°	2086.0	1870.6	1456.9	1130.0	894.4	670.9	460.4	339.3	275.1	247.0	234.9
22.5°	2290.9	2003.1	1469.9	1052.9	753.1	479.3	317.8	249.3	216.3	201.3	194.5
25°	2554.5	2189.1	1506.8	983.1	620.3	357.6	247.7	208.8	185.7	173.9	169.0
27.5°	2835.5	2403.1	1564.2	922.4	512.3	285.2	212.1	178.8	162.2	154.0	149.4
30°	3067.2	2651.1	1622.3	854.9	434.0	248.6	194.1	163.1	143.9	138.7	134.4
32.5°	3269.8	2838.7	1663.4	793.9	382.7	220.9	175.5	145.9	132.8	122.7	118.1
35°	3479.6	2995.0	1662.1	751.1	347.5	200.0	159.9	130.5	114.9	103.1	99.5
37.5°	3706.7	3171.6	1633.7	714.6	332.2	183.4	151.1	122.4	106.7	95.0	90.4
40°	3972.6	3356.9	1604.7	680.3	327.9	170.0	144.9	115.8	99.2	87.8	83.2
42.5°	4231.7	3524.0	1579.3	654.9	309.7	169.7	139.3	110.9	93.3	82.2	77.0
45°	4438.9	3679.6	1574.4	639.5	290.4	175.5	136.4	107.7	88.8	77.7	72.8
47.5°	4611.2	3848.6	1605.7	628.8	272.1	160.2	143.6	105.4	84.5	73.7	68.2
50°	4816.1	4056.1	1679.4	611.1	252.9	144.2	164.5	106.0	80.9	69.8	64.0
52.5°	5101.9	4343.3	1787.8	581.5	226.4	129.5	161.8	106.7	77.0	65.6	59.7
55°	5422.3	4701.9	1904.2	532.2	189.6	110.3	138.7	102.1	69.5	61.0	55.5
57.5°	5759.1	5027.2	1973.4	473.5	150.7	95.3	110.9	93.0	61.3	54.8	51.2
60°	5811.9	5150.9	1941.8	401.3	119.7	82.9	82.2	94.6	54.8	48.3	45.7
62.5°	5680.4	4995.5	1788.7	337.1	100.2	72.8	67.5	82.6	49.6	43.1	40.5
65°	5427.6	4575.6	1540.8	303.8	93.0	62.3	56.1	58.1	43.4	37.5	35.2
67.5°	5075.8	4015.0	1265.0	284.9	92.0	53.5	48.0	44.0	37.5	32.6	30.7
70°	4356.7	3344.8	1009.2	274.4	89.4	45.0	40.5	35.9	31.3	27.7	26.1
72.5°	3206.5	2370.2	785.1	263.0	90.1	35.9	35.2	29.7	25.1	21.5	20.9
75°	1852.7	1354.1	514.9	213.1	85.8	27.7	29.4	20.9	17.6	15.0	15.0
77.5°	987.4	825.8	196.1	88.8	31.3	17.6	16.6	12.4	11.1	9.1	8.8
80°	430.4	363.5	59.1	24.8	17.3	9.5	6.2	5.5	4.9	3.9	3.6
82.5°	152.4	131.5	19.3	12.1	7.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	34.6	24.8	0.0	2.9	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°	2310.8	2310.8	2310.8	2310.8	2310.8	2310.8	2310.8	2310.8	2310.8	2310.8	2310.8
2.5°	1960.0	1952.9	1910.4	1912.1	1919.6	1930.3	1904.9	1916.6	1948.3	1978.6	1990.1
5°	1515.6	1517.3	1491.5	1507.5	1521.8	1531.6	1490.5	1491.2	1516.3	1550.5	1568.5
7.5°	1068.0	1065.3	1066.7	1104.8	1131.9	1112.3	1127.7	1074.5	1077.7	1102.2	1083.9
10°	793.9	758.0	737.7	766.5	796.2	785.4	759.0	741.7	753.7	780.8	778.9
12.5°	623.9	572.3	542.0	521.4	545.9	525.7	525.0	510.0	493.7	496.6	540.0
15°	469.2	431.7	395.8	362.8	362.2	355.3	320.4	281.3	278.0	280.0	302.5
17.5°	322.7	310.0	295.3	266.9	259.4	230.7	196.8	181.1	173.3	176.9	184.4
20°	226.8	221.9	223.5	208.2	197.4	170.0	150.1	143.9	142.6	146.2	149.8
22.5°	187.9	179.1	178.2	171.3	160.5	140.6	129.9	126.3	124.6	127.9	130.5
25°	164.5	155.6	152.1	147.8	136.4	122.7	116.2	112.9	111.3	113.2	114.9
27.5°	144.9	136.7	133.5	130.5	119.4	109.6	104.4	101.5	100.2	100.8	102.5
30°	130.2	123.0	118.8	115.2	105.7	98.9	94.3	91.4	90.1	90.1	91.7
32.5°	114.9	110.9	107.0	102.5	93.6	89.1	84.5	81.2	79.9	80.3	81.6
35°	95.6	94.3	95.3	91.0	83.5	79.6	75.0	71.5	70.5	70.8	72.1
37.5°	84.8	79.0	82.6	80.3	76.0	70.8	64.9	61.7	60.0	61.0	61.7
40°	78.0	70.8	68.2	70.5	69.8	61.3	56.1	52.9	51.6	51.9	52.5
42.5°	72.1	63.6	57.8	57.4	61.3	53.5	48.0	45.0	43.4	43.4	44.0
45°	66.6	57.4	50.2	44.7	51.6	45.4	40.1	37.5	35.6	35.6	35.9
47.5°	62.3	52.2	43.7	36.5	38.8	37.2	33.0	30.3	28.4	28.4	28.7
50°	58.4	47.0	37.8	30.7	29.0	30.7	26.8	23.8	22.5	22.2	22.8
52.5°	54.2	41.8	32.3	26.1	22.8	23.2	20.9	18.9	17.3	17.3	17.9
55°	49.9	37.5	28.1	22.2	18.9	17.3	16.6	15.3	14.0	14.0	14.7
57.5°	45.7	33.0	23.8	18.3	15.0	13.7	13.7	12.7	11.7	11.7	12.4
60°	41.8	28.4	19.6	15.0	11.7	11.4	11.7	10.8	10.1	10.1	10.8
62.5°	37.2	24.1	16.0	12.4	9.5	9.1	10.1	9.5	8.8	8.8	9.5
65°	31.7	20.6	12.7	9.5	7.2	7.2	8.5	7.8	7.2	7.2	7.8
67.5°	26.8	17.3	9.8	6.9	5.2	5.5	7.2	6.5	6.2	6.2	6.9
70°	22.2	13.4	6.9	4.2	2.9	4.2	5.5	5.5	5.5	5.5	6.2
72.5°	16.6	9.1	3.9	1.6	1.3	2.9	4.6	5.2	4.9	4.9	5.9
75°	10.8	5.2	1.3	0.0	0.0	1.6	3.6	4.2	4.2	3.9	4.9
77.5°	6.2	1.6	0.0	0.0	0.0	0.0	2.3	2.0	1.6	1.3	2.3
80°	1.6	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

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2310.8	2310.8	2310.8	2310.8	2310.8	2310.8	2310.8	2310.8	2310.8	2310.8
2.5°	2036.1	2074.6	2128.7	2186.2	2274.6	2344.7	2413.6	2472.6	2495.5	2505.0
5°	1611.6	1668.0	1747.3	1849.1	2008.7	2152.2	2297.8	2444.3	2507.9	2523.9
7.5°	1156.4	1228.5	1329.3	1456.9	1643.9	1829.9	2033.1	2248.2	2346.7	2371.5
10°	855.9	944.0	1059.5	1193.9	1372.4	1563.6	1785.1	2030.8	2143.4	2176.4
12.5°	607.2	726.3	881.0	1044.5	1199.1	1369.8	1593.9	1864.8	1982.9	2018.4
15°	356.6	471.8	654.9	873.8	1071.9	1244.8	1472.6	1779.6	1909.8	1945.7
17.5°	204.6	262.0	400.4	644.4	913.3	1152.8	1434.4	1800.8	1954.2	1987.4
20°	156.3	174.6	230.7	415.0	728.0	1062.4	1434.4	1920.9	2109.8	2158.8
22.5°	136.7	150.1	172.9	247.7	535.8	965.5	1451.0	2094.5	2341.5	2395.6
25°	121.4	133.5	153.0	186.3	365.4	850.3	1490.5	2307.5	2614.3	2684.4
27.5°	108.7	120.1	137.7	163.1	249.9	711.3	1543.7	2557.5	2915.1	2971.2
30°	97.2	108.0	124.0	141.9	192.8	553.7	1589.0	2793.1	3151.3	3211.7
32.5°	86.5	96.3	110.6	124.0	157.9	409.5	1593.9	2979.7	3347.4	3407.5
35°	76.4	85.2	98.2	108.7	130.8	323.4	1517.9	3141.5	3543.5	3622.8
37.5°	66.6	75.0	86.5	94.3	115.2	263.6	1401.8	3322.0	3795.1	3868.5
40°	57.4	64.9	76.7	81.9	109.0	202.6	1275.5	3511.2	4041.8	4109.0
42.5°	48.9	56.1	67.5	77.7	95.6	151.4	1139.1	3688.7	4263.7	4334.1
45°	40.8	48.3	59.7	82.2	79.3	113.2	993.2	3806.5	4438.9	4515.6
47.5°	33.0	41.4	57.1	78.3	63.3	83.2	877.7	3918.1	4571.7	4647.4
50°	26.4	34.9	64.3	69.8	51.9	63.6	829.4	4018.0	4658.8	4731.6
52.5°	21.5	29.4	60.7	53.5	43.4	52.5	855.5	4179.8	4739.4	4785.1
55°	17.9	23.2	36.5	37.2	36.9	44.7	887.8	4412.1	4947.9	4969.4
57.5°	15.7	18.6	25.5	28.7	31.0	39.8	888.5	4745.6	5270.6	5284.0
60°	13.4	16.3	21.2	23.2	26.8	35.6	856.2	4862.1	5397.5	5441.9
62.5°	11.7	14.4	17.6	19.3	22.5	32.0	780.5	4693.4	5223.3	5298.7
65°	10.4	13.1	14.7	16.3	19.9	28.7	655.8	4356.0	4934.2	5012.8
67.5°	9.1	11.4	13.1	14.7	17.9	25.5	482.9	3964.1	4602.4	4667.6
70°	8.2	10.1	11.7	13.1	15.7	21.5	293.0	3363.8	4143.6	4170.7
72.5°	7.8	9.1	10.8	11.7	13.7	18.9	148.5	2472.0	3312.5	3356.6
75°	6.9	8.2	9.8	10.4	12.1	16.3	60.4	1623.6	2400.5	2471.3
77.5°	5.5	7.5	8.8	9.5	10.4	13.4	30.7	1037.6	1684.7	1730.3
80°	2.0	5.5	7.5	7.8	8.8	9.8	20.2	568.1	977.2	996.8
82.5°	0.0	3.6	5.9	5.5	6.2	7.5	13.1	270.2	645.1	652.3
85°	0.0	1.6	4.6	3.6	2.6	5.2	4.6	59.1	338.4	352.4
87.5°	0.0	0.0	0.3	1.6	1.3	2.0	0.7	0.3	30.7	38.8
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.

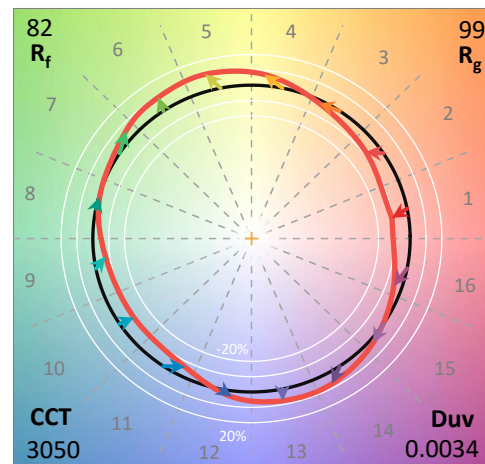
Test Information

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

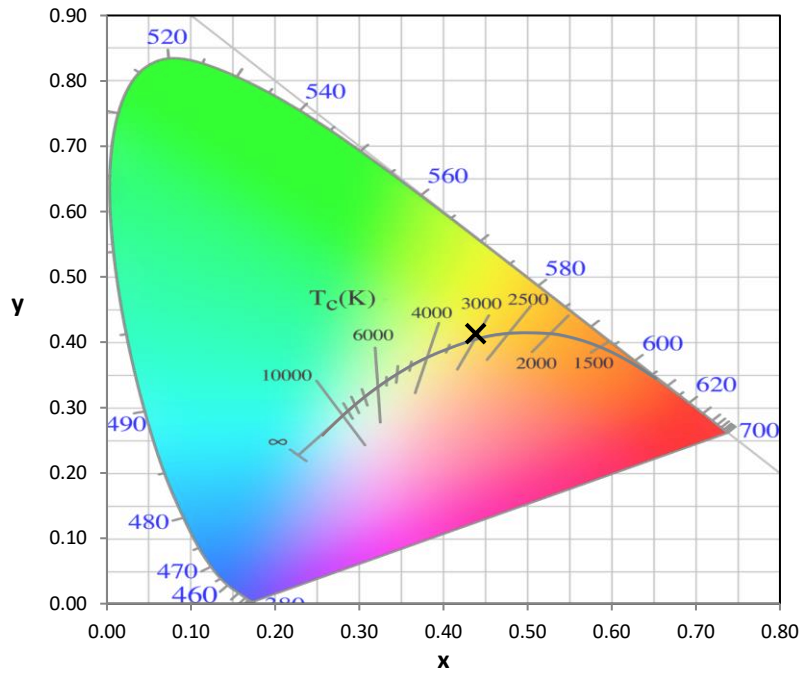
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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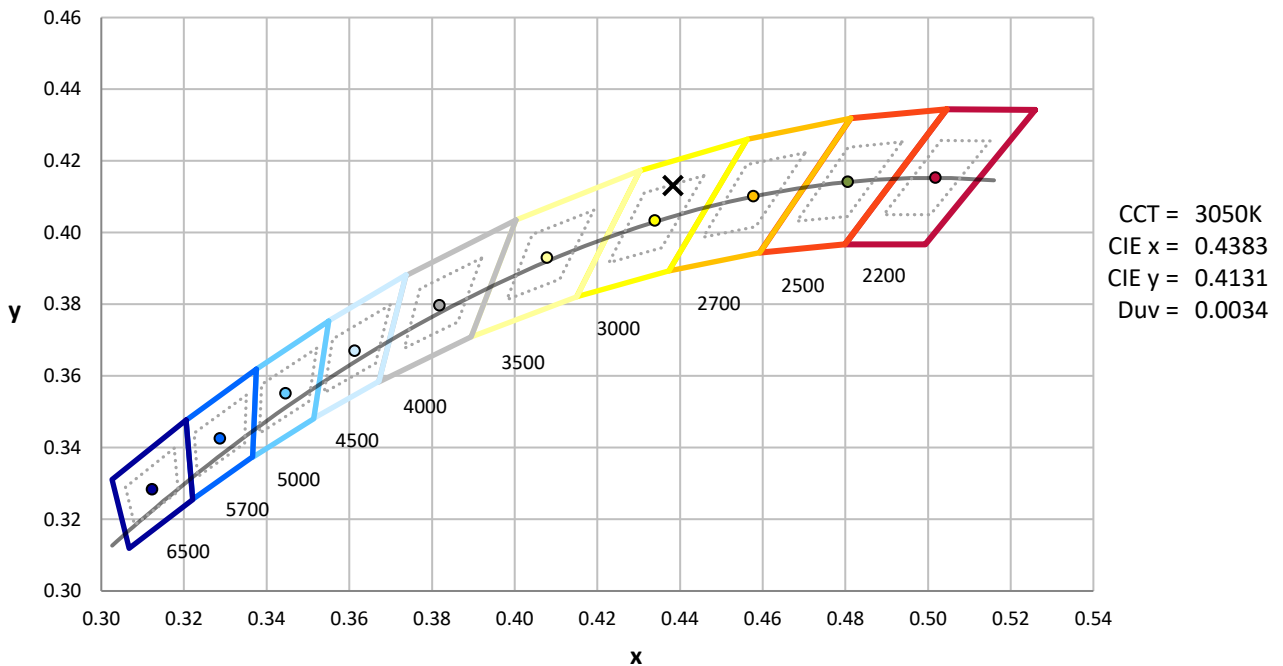
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



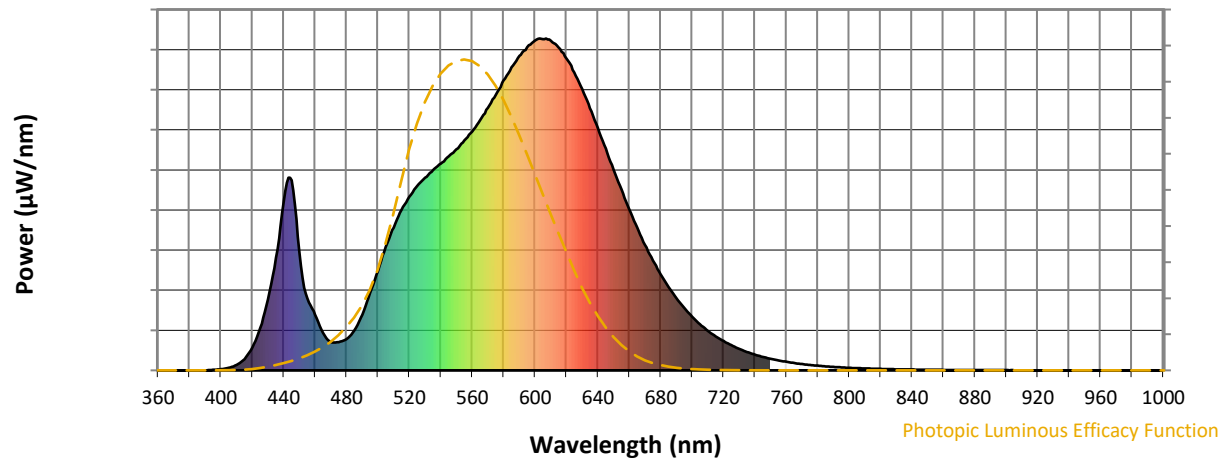
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

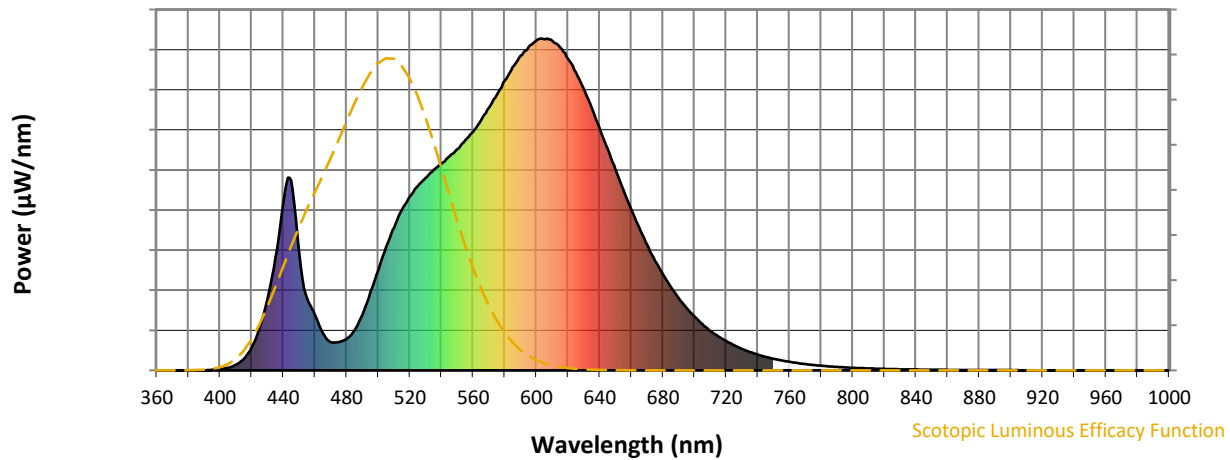


Photopic Lumens: NR

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



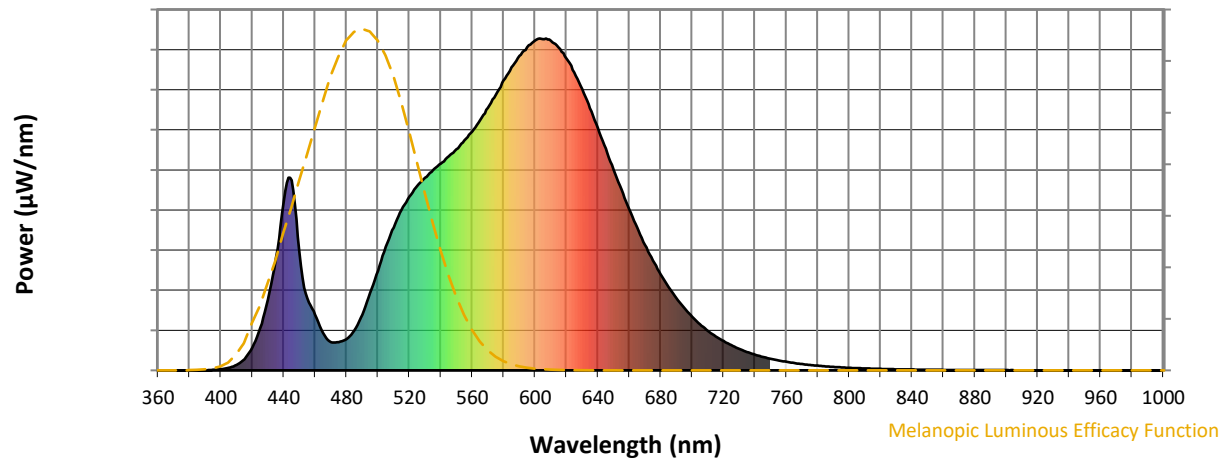
Scotopic Lumens: NR

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

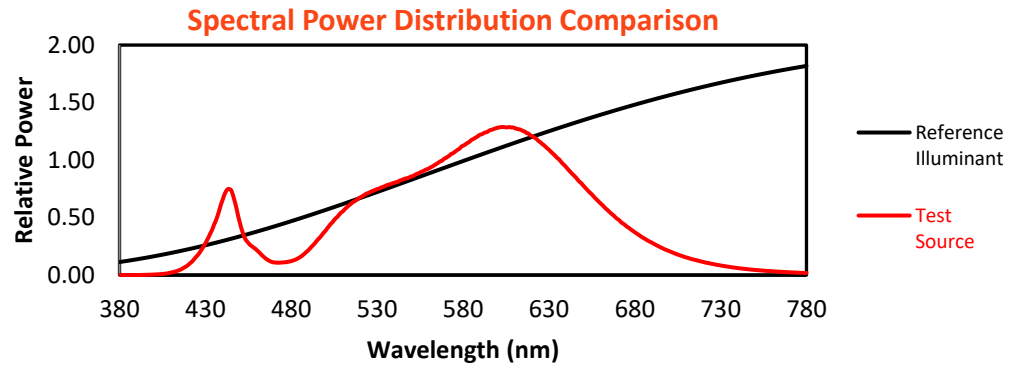
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	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

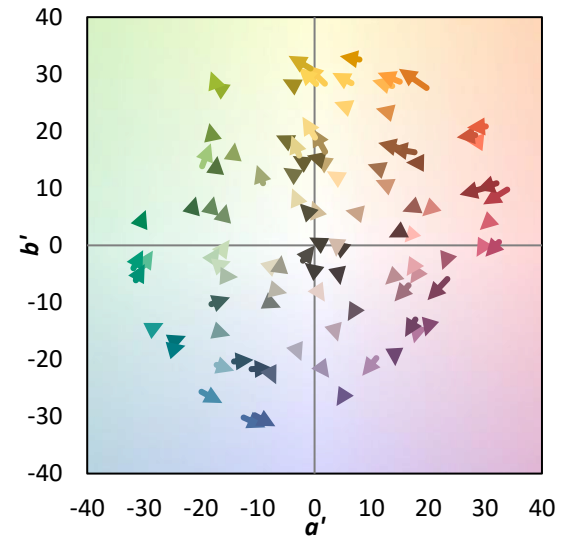
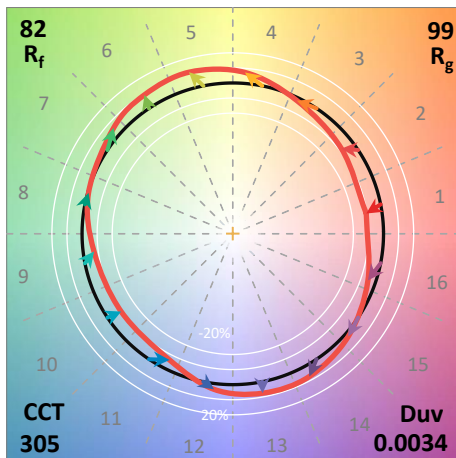
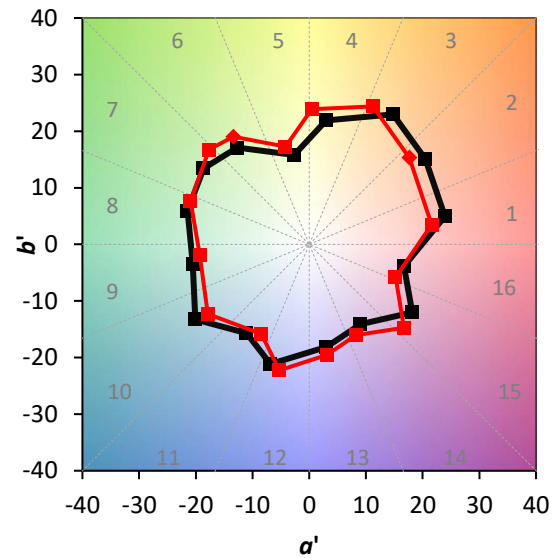
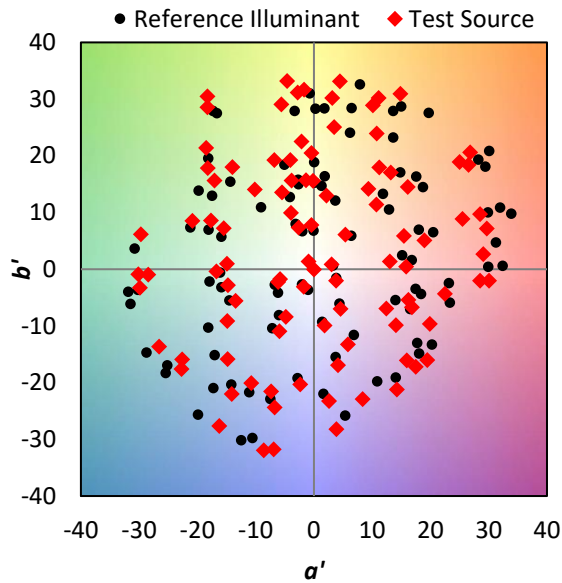
TM-30-18

Summary

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

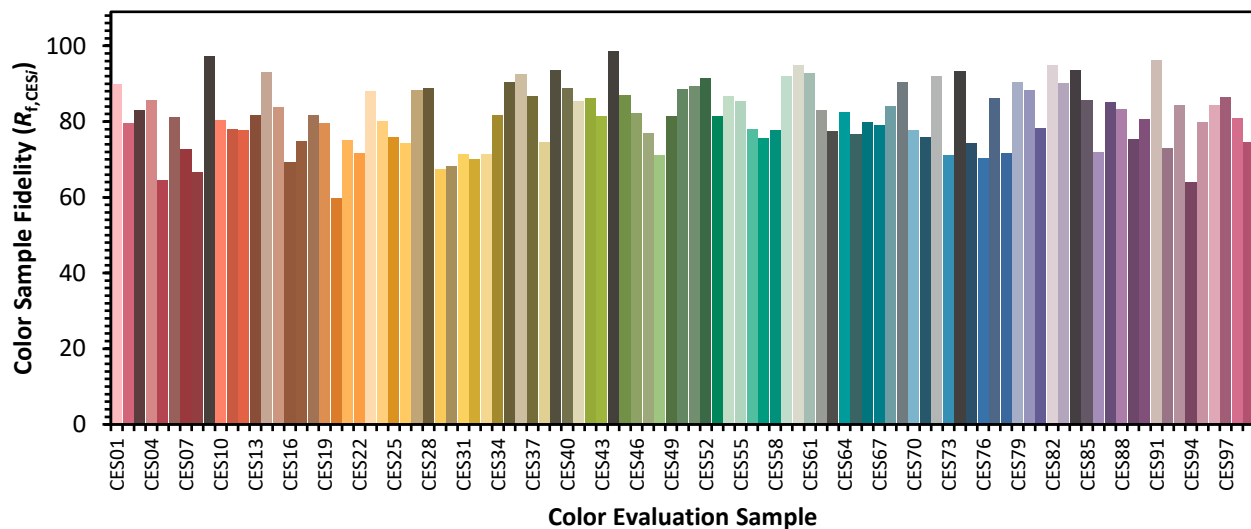


Color Vector Graphics

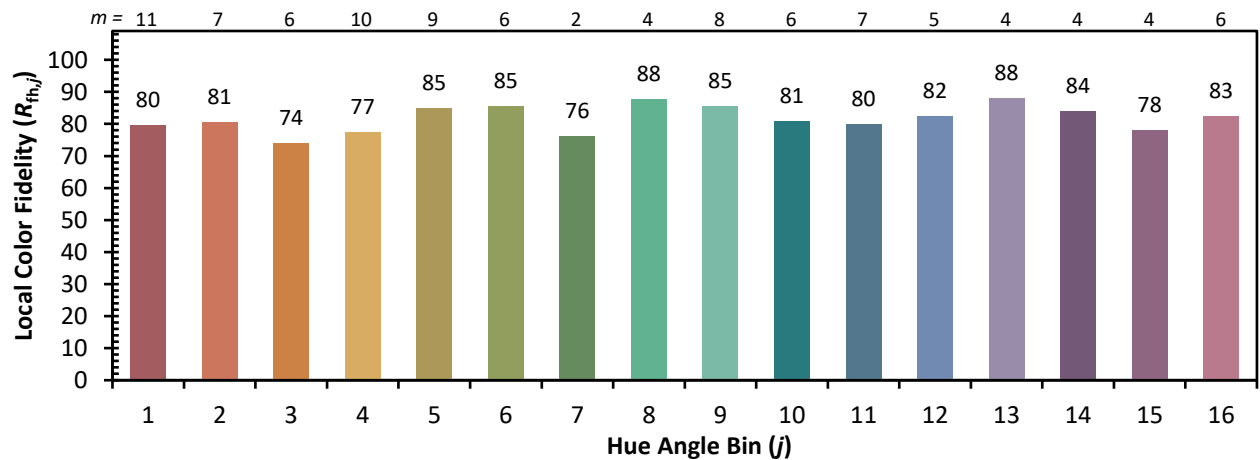
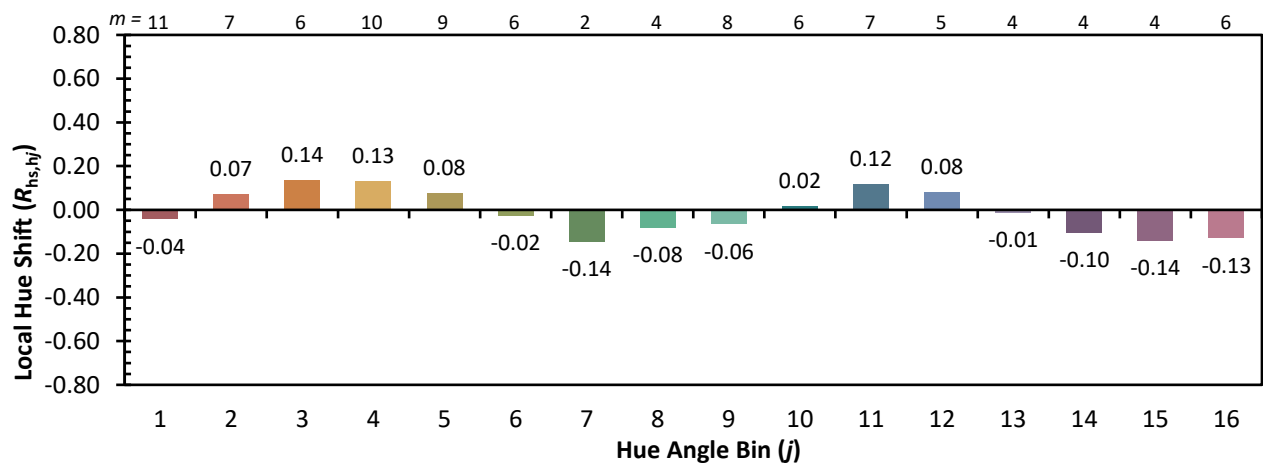
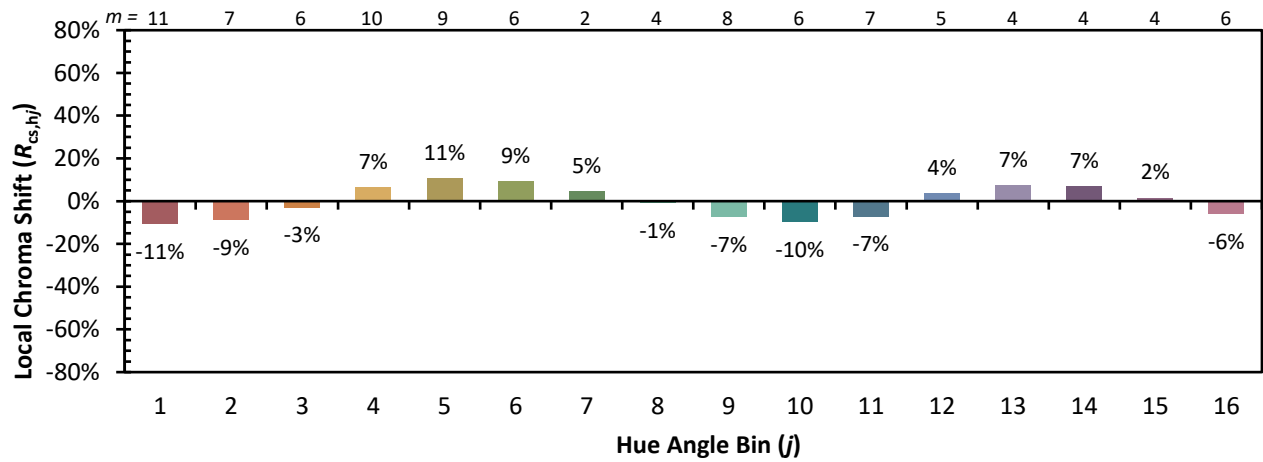


Individual Sample Fidelity Index ($R_{f,i}$)

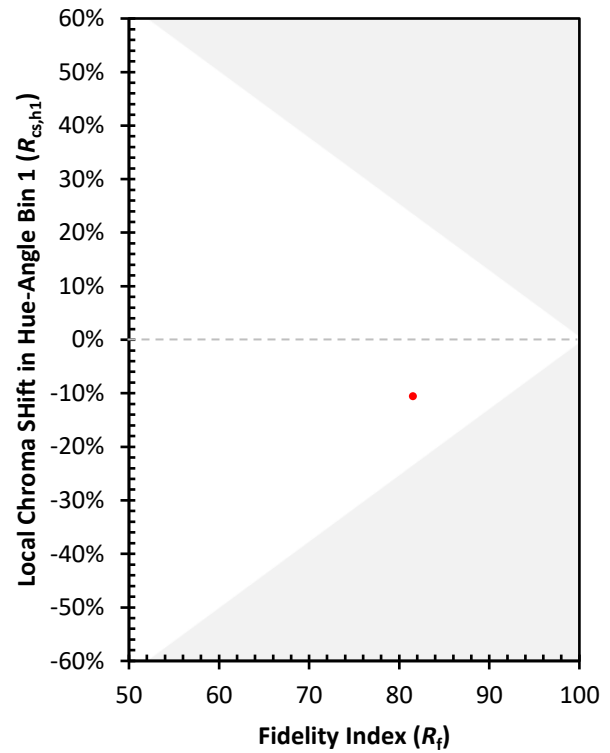
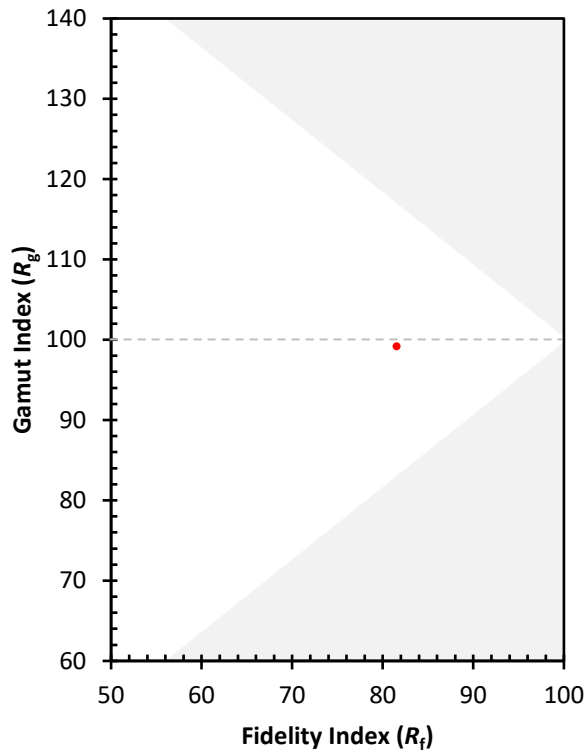
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 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)