

Signify Classified - Internal
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: P324328

Luminaire Tested: **GLEON-SA4C-830-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324328
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-SA4C-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 16809 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

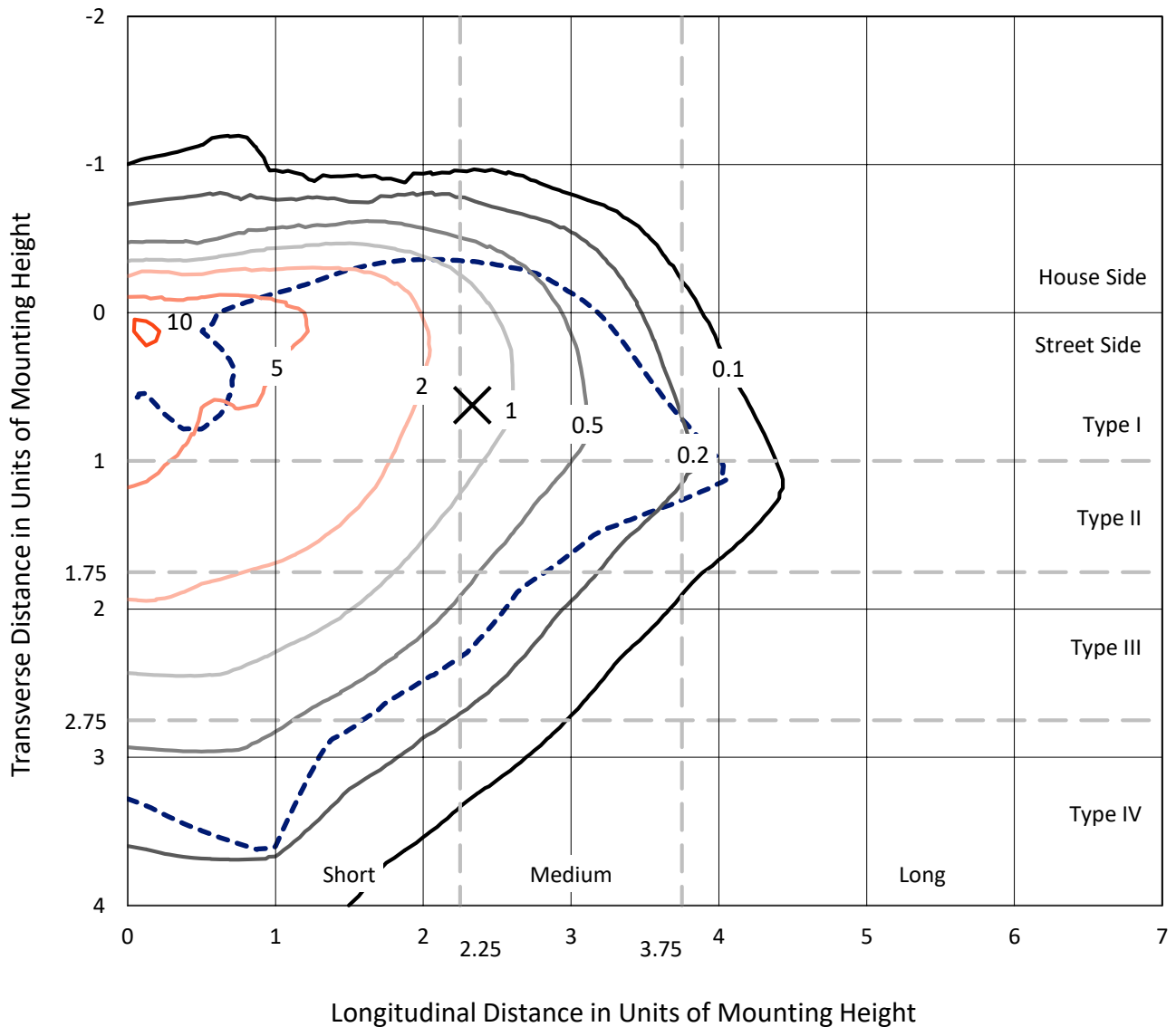
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

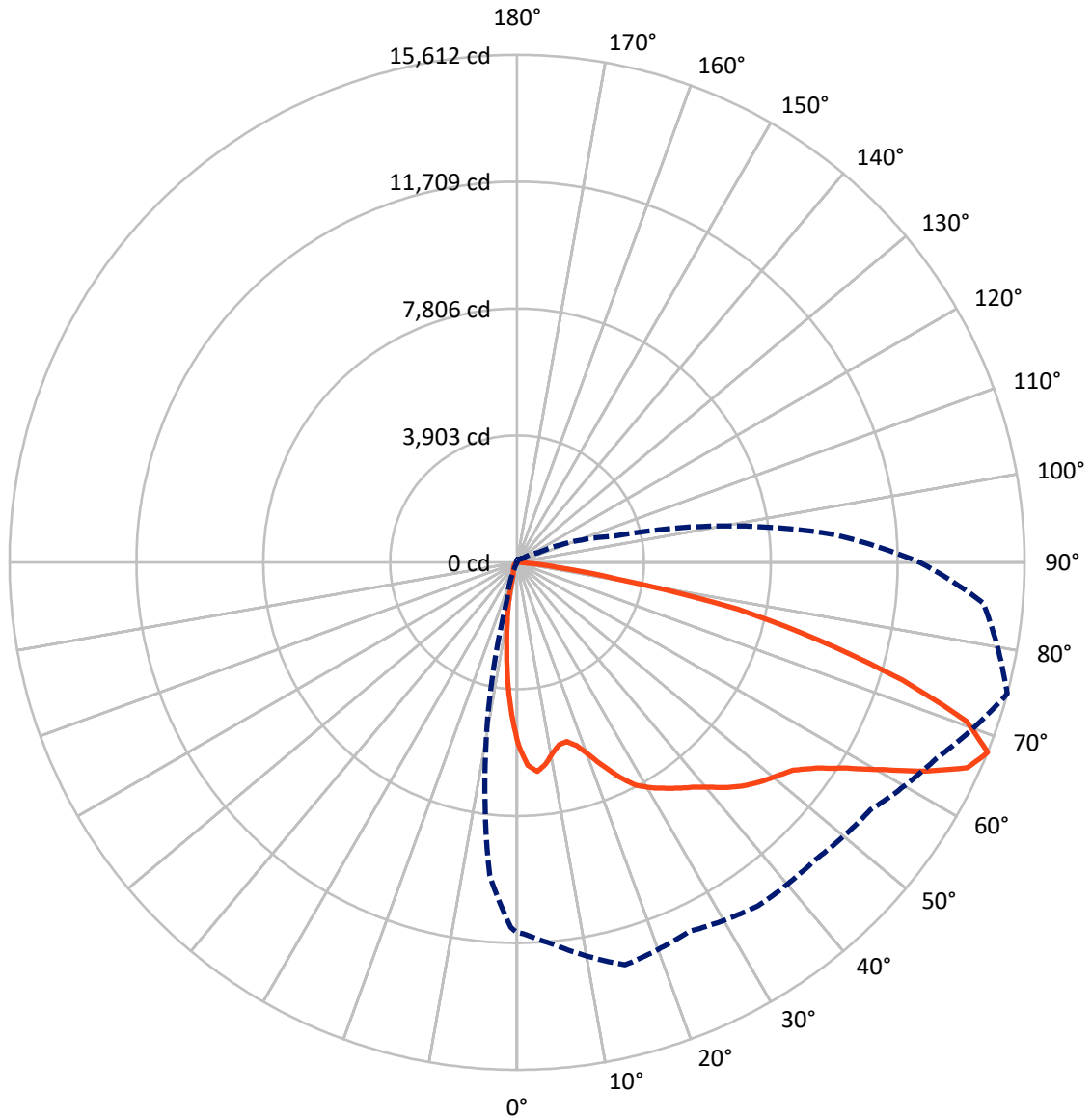
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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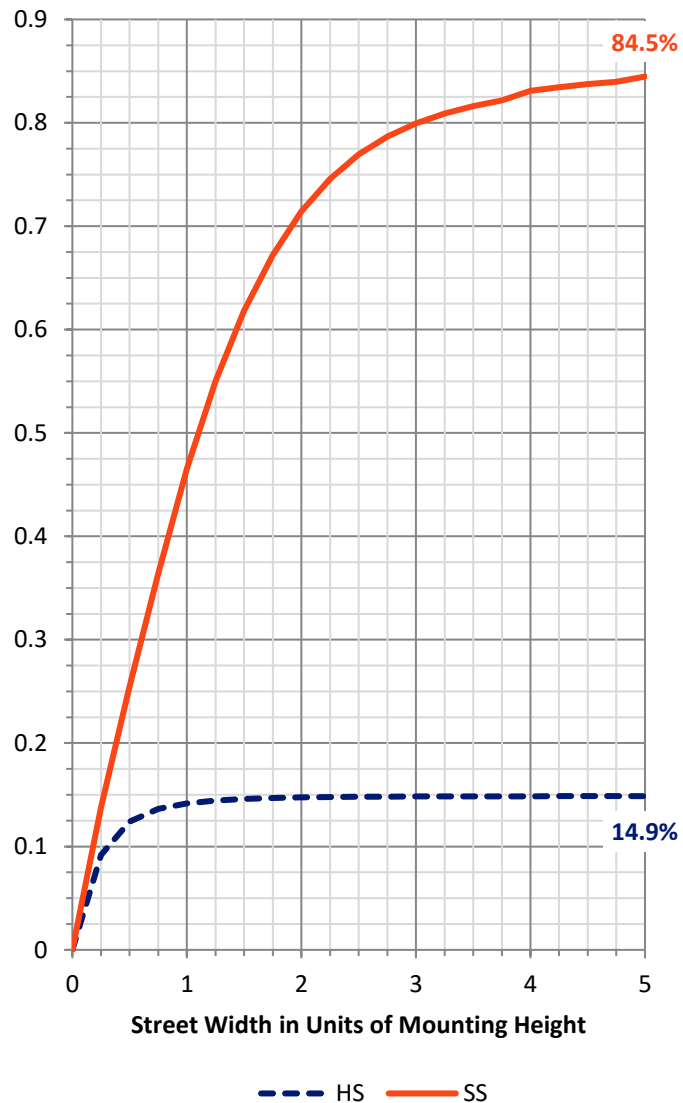
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2522.4	0.0	2522.4
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	14286.6	0.0	14286.6
	% Fixture	85.0	0.0	85.0
Total	Lumens	16809.0	0.0	16809.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.8	2.5
10°-20°	842.3	5.0
20°-30°	1191.5	7.1
30°-40°	1751.9	10.4
40°-50°	2518.1	15.0
50°-60°	3544.8	21.1
60°-70°	4140.0	24.6
70°-80°	2112.1	12.6
80°-90°	280.6	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°	16809.0	100.0
0°-180°	16809.0	100.0

Coefficient of Utilization

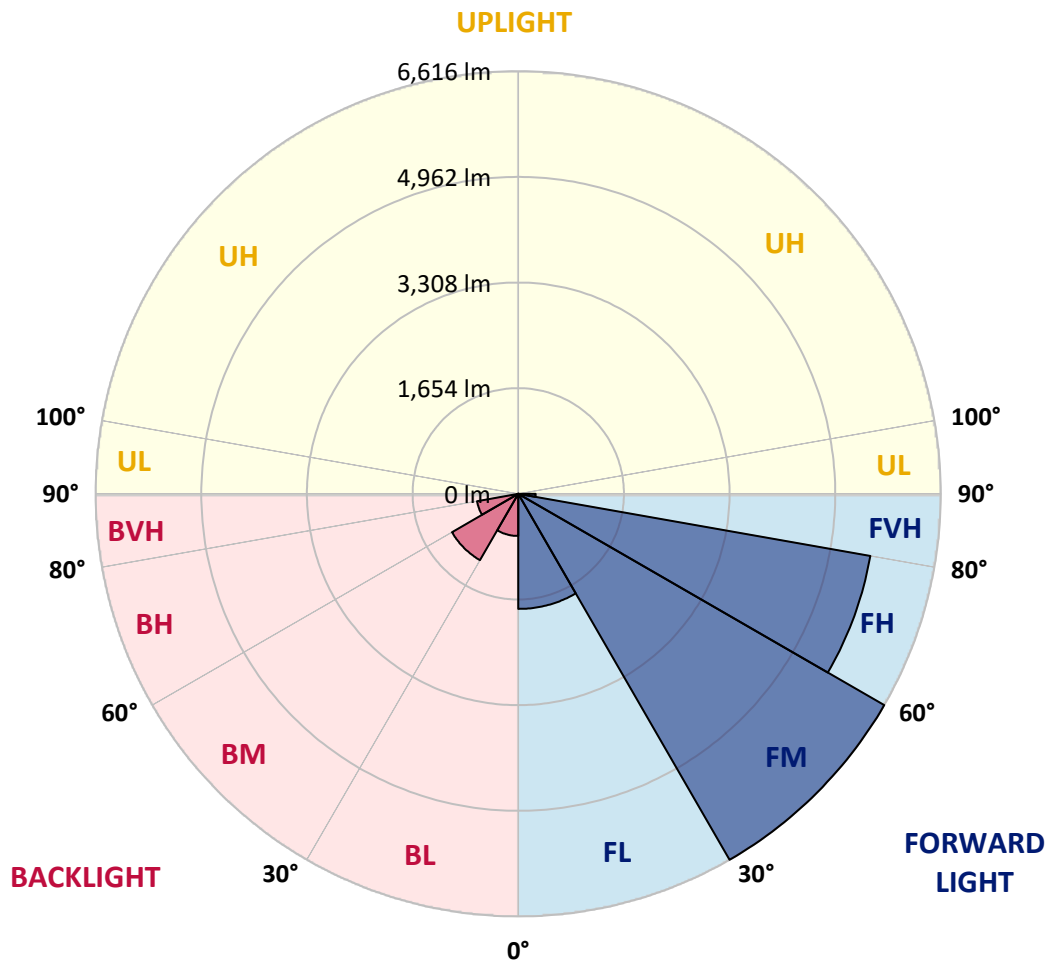


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1801.9	10.7			
FM (30°-60°)	6615.7	39.4			
FH (60°-80°)	5596.9	33.3			G3/7500
FVH (80°-90°)	272.1	1.6			G3/500
BL (0°-30°)	659.6	3.9	B2/1000		
BM (30°-60°)	1199.1	7.1	B2/2500		
BH (60°-80°)	655.2	3.9	B2/1000		G2/1000
BVH (80°-90°)	8.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	5639.1	5639.1	5639.1	5639.1	5639.1	5639.1	5639.1	5639.1	5639.1	5639.1	5639.1
2.5°	6112.9	6122.5	6171.8	6286.5	6411.5	6421.1	6505.5	6418.7	6389.2	6249.1	6104.1
5°	6159.1	6195.7	6365.3	6702.1	6994.4	7088.3	7155.2	6984.8	6805.7	6463.3	6097.8
7.5°	5787.2	5848.5	6115.3	6747.5	7269.9	7500.8	7544.6	7277.8	6839.1	6275.3	5725.9
10°	5311.1	5381.1	5702.8	6480.0	7197.4	7593.2	7653.7	7304.1	6673.5	5971.2	5323.8
12.5°	4925.7	5007.7	5336.6	6179.0	6948.2	7386.1	7505.6	7215.7	6530.1	5755.4	5049.1
15°	4748.1	4842.1	5187.7	5984.7	6671.9	7016.7	7115.4	6990.4	6450.5	5721.1	4985.4
17.5°	4850.0	4952.0	5308.7	6001.4	6412.3	6559.6	6639.2	6690.2	6450.5	5927.4	5171.7
20°	5268.1	5378.0	5755.4	6171.0	6197.3	6142.4	6227.6	6406.7	6525.4	6319.1	5619.2
22.5°	5846.2	5975.2	6401.2	6461.7	6092.2	5884.4	5895.5	6176.6	6661.5	6816.0	6240.3
25°	6550.9	6708.5	7141.7	6894.8	6136.0	5730.7	5726.7	5987.1	6794.5	7313.7	6932.3
27.5°	7250.8	7424.4	7805.0	7423.6	6316.8	5702.8	5694.9	5929.8	6924.3	7756.4	7687.9
30°	7837.6	8006.4	8334.5	7806.6	6511.8	5768.1	5729.9	5991.1	7001.5	8043.8	8238.9
32.5°	8315.4	8450.7	8715.9	8070.1	6720.5	5894.7	5811.9	6155.1	7132.9	8286.7	8745.4
35°	8840.9	8983.4	9089.3	8320.9	6954.6	6077.1	5958.4	6415.5	7335.2	8533.5	9300.3
37.5°	9440.5	9582.2	9569.5	8550.3	7251.6	6378.9	6303.2	6828.0	7649.7	8778.0	9919.8
40°	10027.3	10172.3	10068.7	8801.1	7600.3	6876.5	6820.8	7447.4	8070.9	9090.9	10646.0
42.5°	10576.8	10733.6	10512.3	9038.4	8016.0	7504.0	7599.5	8245.3	8598.0	9476.3	11271.9
45°	11019.5	11179.5	10884.1	9269.3	8453.9	8265.2	8552.7	9129.2	9231.9	9802.0	11694.7
47.5°	11341.2	11492.5	11142.1	9500.2	9014.5	9196.0	9696.9	10056.0	9804.4	10084.7	11994.9
50°	11546.6	11664.5	11217.7	9789.3	9750.2	10282.1	10888.9	11064.1	10343.5	10339.5	12359.6
52.5°	11677.2	11730.5	11273.5	10091.0	10517.8	11464.6	12056.2	12111.2	10898.4	10619.8	12850.9
55°	12127.1	12170.1	11668.4	10456.5	11152.5	12500.5	13112.1	13061.1	11526.7	11168.4	13430.6
57.5°	12894.7	12940.1	12484.6	10982.1	11666.0	13140.7	13877.3	13968.8	12263.2	11939.2	14051.6
60°	13280.1	13364.5	13202.0	11647.7	12163.7	13550.0	14398.8	14691.0	13183.7	12955.2	14653.6
62.5°	12930.5	13053.1	13288.8	12385.9	12658.2	13775.3	14561.3	14949.8	14126.5	14139.2	15024.7
65°	12233.0	12330.9	12730.6	12790.4	12944.8	13747.5	14159.9	14588.3	14703.8	15226.9	15004.8
67.5°	11390.5	11427.2	11766.4	12822.2	12529.2	12909.8	12954.4	13271.3	14247.5	15612.3	14402.0
70°	10177.8	10197.7	10493.9	11756.0	10767.1	10850.7	10784.6	10849.1	12248.9	14673.5	12880.3
72.5°	8191.2	8241.3	8662.5	9763.0	7844.0	7602.7	8121.9	8093.2	9433.3	12397.0	9566.3
75°	6030.9	6117.7	6753.9	7863.9	5505.4	4979.8	5358.8	5460.0	6706.1	9589.4	5982.3
77.5°	4222.6	4287.1	4903.4	5780.9	3984.5	3560.9	3423.9	3544.2	4426.4	6937.0	3013.9
80°	2432.6	2456.5	2849.8	3337.9	2685.0	3072.0	2782.9	2865.7	2652.4	3086.3	1296.3
82.5°	1591.7	1595.7	1749.4	1986.7	1672.2	1942.9	1438.1	1838.6	1631.5	1239.8	422.0
85°	860.0	864.7	1014.4	1410.2	946.8	535.1	314.5	645.8	1008.9	284.3	115.5
87.5°	94.8	86.8	305.8	512.8	262.8	48.6	16.7	72.5	161.6	18.3	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°	5639.1	5639.1	5639.1	5639.1	5639.1	5639.1	5639.1	5639.1	5639.1	5639.1	5639.1
2.5°	6030.1	5964.0	5799.2	5624.8	5484.7	5353.3	5221.1	5059.5	4934.4	4909.0	4867.6
5°	5901.1	5691.7	5346.1	4998.9	4719.4	4366.7	4143.0	3968.6	3798.2	3787.8	3753.6
7.5°	5450.4	5174.9	4688.4	4208.2	3814.9	3478.9	3139.7	2912.7	2734.4	2671.5	2634.0
10°	5017.3	4707.5	4100.0	3552.1	3201.0	2904.0	2665.1	2427.8	2212.8	2064.7	1997.8
12.5°	4714.7	4372.3	3702.6	3230.4	2978.8	2696.9	2405.5	2109.3	1861.7	1683.3	1574.2
15°	4597.6	4232.1	3569.6	3103.0	2792.5	2435.8	2063.1	1724.7	1450.0	1288.4	1190.4
17.5°	4737.0	4311.8	3559.3	2947.8	2513.8	2070.3	1658.6	1258.9	1000.1	877.5	814.6
20°	5090.5	4565.0	3555.3	2757.5	2182.6	1637.1	1123.5	828.1	671.2	602.8	573.3
22.5°	5590.6	4888.3	3587.2	2569.5	1837.8	1169.7	775.6	608.3	527.9	491.3	474.6
25°	6233.9	5342.1	3677.1	2399.1	1513.7	872.7	604.4	509.6	453.1	424.4	412.5
27.5°	6919.5	5864.5	3817.3	2251.0	1250.1	695.9	517.6	436.4	395.7	375.8	364.7
30°	7484.9	6469.6	3959.0	2086.2	1059.0	606.8	473.8	398.1	351.2	338.4	328.1
32.5°	7979.3	6927.5	4059.3	1937.3	934.0	539.1	428.4	355.9	324.1	299.4	288.2
35°	8491.3	7308.9	4056.2	1833.0	848.0	488.1	390.2	318.5	280.3	251.6	242.9
37.5°	9045.5	7739.7	3986.9	1743.8	810.6	447.5	368.7	298.6	260.4	231.7	220.6
40°	9694.5	8192.0	3916.0	1660.2	800.2	414.9	353.5	282.7	242.1	214.2	203.0
42.5°	10326.7	8599.6	3853.9	1598.1	755.7	414.1	340.0	270.7	227.7	200.7	187.9
45°	10832.4	8979.5	3842.0	1560.7	708.7	428.4	332.8	262.8	216.6	189.5	177.6
47.5°	11252.8	9391.9	3918.4	1534.4	664.1	391.0	350.4	257.2	206.2	180.0	166.4
50°	11752.8	9898.3	4098.4	1491.4	617.1	351.9	401.3	258.8	197.5	170.4	156.1
52.5°	12450.4	10599.1	4362.7	1418.9	552.6	316.1	394.9	260.4	187.9	160.0	145.7
55°	13232.3	11474.1	4647.0	1298.7	462.6	269.1	338.4	249.2	169.6	148.9	135.4
57.5°	14054.0	12268.0	4815.8	1155.4	367.9	232.5	270.7	226.9	149.7	133.8	125.0
60°	14183.0	12569.8	4738.6	979.4	292.2	202.3	200.7	230.9	133.8	117.8	111.5
62.5°	13862.1	12190.8	4365.1	822.5	244.5	177.6	164.8	201.5	121.0	105.1	98.7
65°	13245.0	11166.0	3760.0	741.3	226.9	152.1	137.0	141.7	105.9	91.6	86.0
67.5°	12386.7	9798.0	3087.1	695.1	224.5	130.6	117.1	107.5	91.6	79.6	74.8
70°	10631.7	8162.5	2462.8	669.7	218.2	109.9	98.7	87.6	76.4	67.7	63.7
72.5°	7824.9	5784.1	1915.8	641.8	219.8	87.6	86.0	72.5	61.3	52.6	51.0
75°	4521.2	3304.5	1256.5	520.0	209.4	67.7	71.7	51.0	43.0	36.6	36.6
77.5°	2409.5	2015.3	478.6	216.6	76.4	43.0	40.6	30.3	27.1	22.3	21.5
80°	1050.3	887.0	144.1	60.5	42.2	23.1	15.1	13.5	11.9	9.6	8.8
82.5°	371.9	320.9	47.0	29.5	18.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	84.4	60.5	0.0	7.2	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°	5639.1	5639.1	5639.1	5639.1	5639.1	5639.1	5639.1	5639.1	5639.1	5639.1	5639.1
2.5°	4783.1	4765.6	4662.1	4666.1	4684.4	4710.7	4648.6	4677.2	4754.5	4828.5	4856.4
5°	3698.6	3702.6	3639.7	3678.7	3713.8	3737.7	3637.3	3638.9	3700.2	3783.8	3827.6
7.5°	2606.2	2599.8	2603.0	2696.1	2762.2	2714.5	2751.9	2622.1	2630.1	2689.8	2645.2
10°	1937.3	1849.7	1800.3	1870.4	1942.9	1916.6	1852.1	1809.9	1839.4	1905.5	1900.7
12.5°	1522.5	1396.6	1322.6	1272.4	1332.1	1282.8	1281.2	1244.6	1204.7	1211.9	1317.8
15°	1145.0	1053.5	965.9	885.4	883.9	867.1	781.9	686.4	678.4	683.2	738.1
17.5°	787.5	756.4	720.6	651.3	633.0	563.0	480.1	441.9	422.8	431.6	449.9
20°	553.4	541.5	545.4	508.0	481.7	414.9	366.3	351.2	348.0	356.7	365.5
22.5°	458.6	437.1	434.8	418.0	391.8	343.2	316.9	308.2	304.2	312.1	318.5
25°	401.3	379.8	371.1	360.7	332.8	299.4	283.5	275.5	271.5	276.3	280.3
27.5°	353.5	333.6	325.7	318.5	291.4	267.5	254.8	247.6	244.5	246.0	250.0
30°	317.7	300.2	289.8	281.1	258.0	241.3	230.1	223.0	219.8	219.8	223.7
32.5°	280.3	270.7	261.2	250.0	228.5	217.4	206.2	198.3	195.1	195.9	199.1
35°	233.3	230.1	232.5	222.2	203.8	194.3	183.1	174.4	172.0	172.8	176.0
37.5°	207.0	192.7	201.5	195.9	185.5	172.8	158.5	150.5	146.5	148.9	150.5
40°	190.3	172.8	166.4	172.0	170.4	149.7	137.0	129.0	125.8	126.6	128.2
42.5°	176.0	155.3	140.9	140.1	149.7	130.6	117.1	109.9	105.9	105.9	107.5
45°	162.4	140.1	122.6	109.1	125.8	110.7	97.9	91.6	86.8	86.8	87.6
47.5°	152.1	127.4	106.7	89.2	94.8	90.8	80.4	74.1	69.3	69.3	70.1
50°	142.5	114.7	92.4	74.8	70.9	74.8	65.3	58.1	54.9	54.1	55.7
52.5°	132.2	101.9	78.8	63.7	55.7	56.5	51.0	46.2	42.2	42.2	43.8
55°	121.8	91.6	68.5	54.1	46.2	42.2	40.6	37.4	34.2	34.2	35.8
57.5°	111.5	80.4	58.1	44.6	36.6	33.4	33.4	31.1	28.7	28.7	30.3
60°	101.9	69.3	47.8	36.6	28.7	27.9	28.7	26.3	24.7	24.7	26.3
62.5°	90.8	58.9	39.0	30.3	23.1	22.3	24.7	23.1	21.5	21.5	23.1
65°	77.2	50.2	31.1	23.1	17.5	17.5	20.7	19.1	17.5	17.5	19.1
67.5°	65.3	42.2	23.9	16.7	12.7	13.5	17.5	15.9	15.1	15.1	16.7
70°	54.1	32.6	16.7	10.4	7.2	10.4	13.5	13.5	13.5	13.5	15.1
72.5°	40.6	22.3	9.6	4.0	3.2	7.2	11.1	12.7	11.9	11.9	14.3
75°	26.3	12.7	3.2	0.0	0.0	4.0	8.8	10.4	10.4	9.6	11.9
77.5°	15.1	4.0	0.0	0.0	0.0	0.0	5.6	4.8	4.0	3.2	5.6
80°	4.0	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



REPORT NUMBER: P324328

CATALOG NUMBER: GLEON-SA4C-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5639.1	5639.1	5639.1	5639.1	5639.1	5639.1	5639.1	5639.1	5639.1	5639.1
2.5°	4968.7	5062.6	5194.8	5335.0	5550.7	5721.9	5890.0	6034.1	6089.8	6112.9
5°	3932.7	4070.5	4264.0	4512.4	4901.8	5252.1	5607.3	5964.8	6120.1	6159.1
7.5°	2822.0	2997.9	3244.0	3555.3	4011.6	4465.4	4961.5	5486.2	5726.7	5787.2
10°	2088.6	2303.6	2585.5	2913.5	3349.1	3815.7	4356.4	4955.9	5230.6	5311.1
12.5°	1481.8	1772.5	2149.9	2548.8	2926.3	3342.7	3889.7	4550.6	4838.9	4925.7
15°	870.3	1151.4	1598.1	2132.4	2615.7	3037.7	3593.5	4342.8	4660.5	4748.1
17.5°	499.3	639.4	977.0	1572.6	2228.7	2813.2	3500.4	4394.6	4768.8	4850.0
20°	381.4	426.0	563.0	1012.8	1776.5	2592.6	3500.4	4687.6	5148.6	5268.1
22.5°	333.6	366.3	422.0	604.4	1307.5	2356.1	3541.0	5111.2	5714.0	5846.2
25°	296.2	325.7	373.4	454.7	891.8	2075.1	3637.3	5631.2	6379.7	6550.9
27.5°	265.2	293.0	336.0	398.1	609.9	1735.9	3767.1	6241.1	7113.8	7250.8
30°	237.3	263.6	302.6	346.4	470.6	1351.3	3877.8	6816.0	7690.3	7837.6
32.5°	211.0	234.9	269.9	302.6	385.4	999.3	3889.7	7271.5	8168.9	8315.4
35°	186.3	207.8	239.7	265.2	319.3	789.1	3704.2	7666.4	8647.4	8840.9
37.5°	162.4	183.1	211.0	230.1	281.1	643.4	3420.7	8106.7	9261.3	9440.5
40°	140.1	158.5	187.1	199.9	266.0	494.5	3112.6	8568.6	9863.3	10027.3
42.5°	119.4	137.0	164.8	189.5	233.3	369.5	2779.8	9001.7	10404.8	10576.8
45°	99.5	117.8	145.7	200.7	193.5	276.3	2423.8	9289.2	10832.4	11019.5
47.5°	80.4	101.1	139.3	191.1	154.5	203.0	2141.9	9561.5	11156.4	11341.2
50°	64.5	85.2	156.9	170.4	126.6	155.3	2024.1	9805.2	11369.0	11546.6
52.5°	52.6	71.7	148.1	130.6	105.9	128.2	2087.8	10200.1	11565.7	11677.2
55°	43.8	56.5	89.2	90.8	90.0	109.1	2166.6	10767.1	12074.5	12127.1
57.5°	38.2	45.4	62.1	70.1	75.6	97.1	2168.2	11580.8	12862.0	12894.7
60°	32.6	39.8	51.8	56.5	65.3	86.8	2089.4	11865.1	13171.8	13280.1
62.5°	28.7	35.0	43.0	47.0	54.9	78.0	1904.7	11453.4	12746.6	12930.5
65°	25.5	31.9	35.8	39.8	48.6	70.1	1600.5	10630.1	12041.1	12233.0
67.5°	22.3	27.9	31.9	35.8	43.8	62.1	1178.5	9673.8	11231.3	11390.5
70°	19.9	24.7	28.7	31.9	38.2	52.6	715.0	8208.7	10111.7	10177.8
72.5°	19.1	22.3	26.3	28.7	33.4	46.2	362.3	6032.5	8083.7	8191.2
75°	16.7	19.9	23.9	25.5	29.5	39.8	147.3	3962.2	5858.1	6030.9
77.5°	13.5	18.3	21.5	23.1	25.5	32.6	74.8	2532.1	4111.1	4222.6
80°	4.8	13.5	18.3	19.1	21.5	23.9	49.4	1386.3	2384.8	2432.6
82.5°	0.0	8.8	14.3	13.5	15.1	18.3	31.9	659.3	1574.2	1591.7
85°	0.0	4.0	11.1	8.8	6.4	12.7	11.1	144.1	825.7	860.0
87.5°	0.0	0.0	0.8	4.0	3.2	4.8	1.6	0.8	74.8	94.8
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.

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2408-195-9
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/07/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: MCGRAW EDISON
 Catalog Number: **GALN-SB1A-830-U-5WQ**
 Description: GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K): 3050
 CIE u': 0.2476
 CIE v': 0.5251
 Duv: 0.0034
 CIE x: 0.4383
 CIE y: 0.4131
 CIE z: 0.1487
 Peak Wavelength (nm): 603
 Dominant Wavelength (nm): 581
 Purity: 55.55201
 Rf: 81.5
 Rg: 99.2

CRI (Ra):	81.0		
R1:	79.6	R9:	7.1
R2:	85.6	R10:	67.0
R3:	92.0	R11:	82.7
R4:	82.6	R12:	63.2
R5:	78.9	R13:	80.3
R6:	81.7	R14:	95.0
R7:	85.2	R15:	71.7
R8:	62.0		



Test Conditions

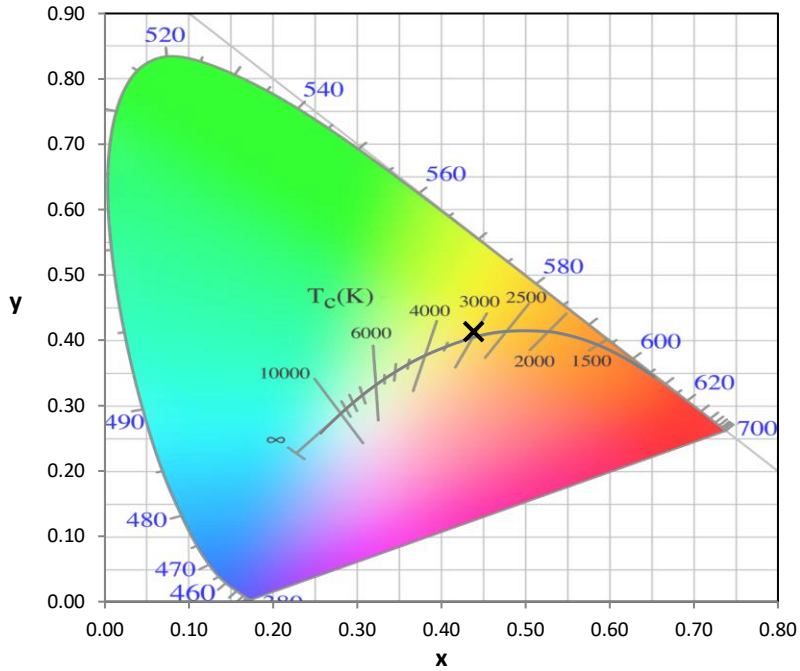
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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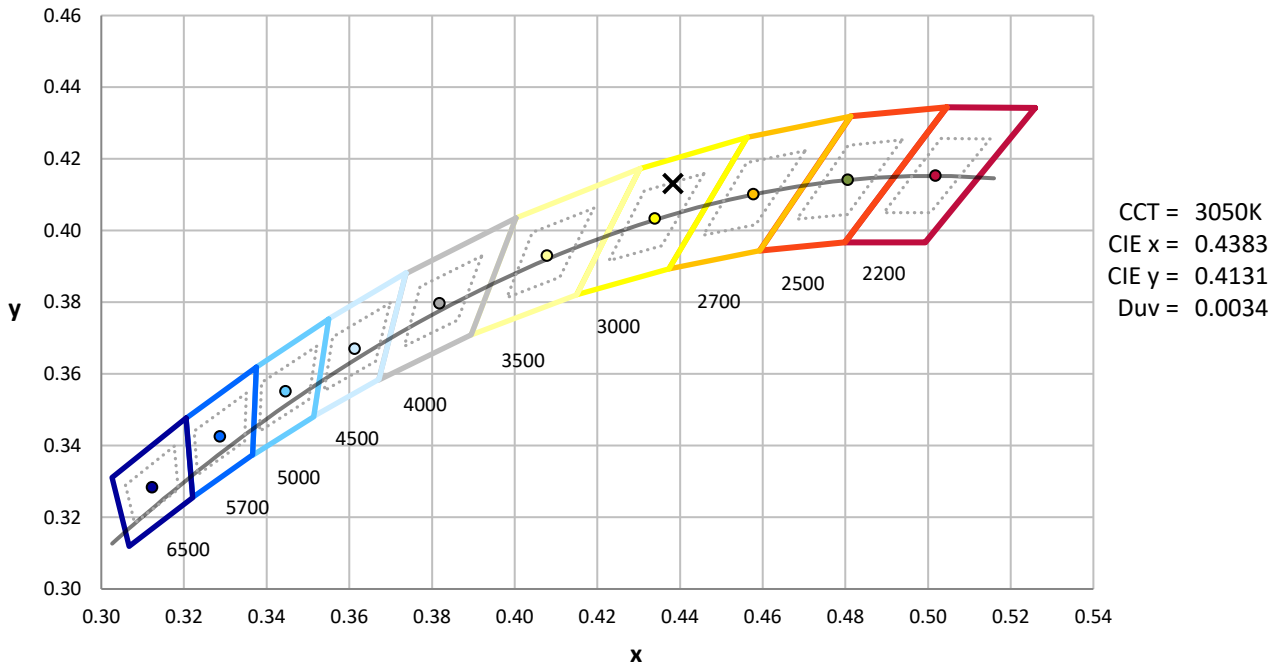
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



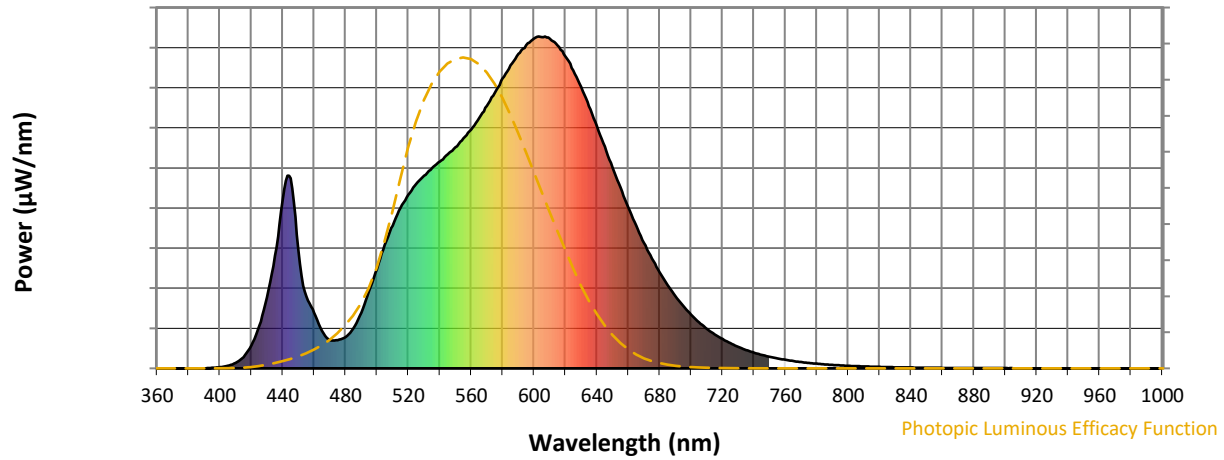
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

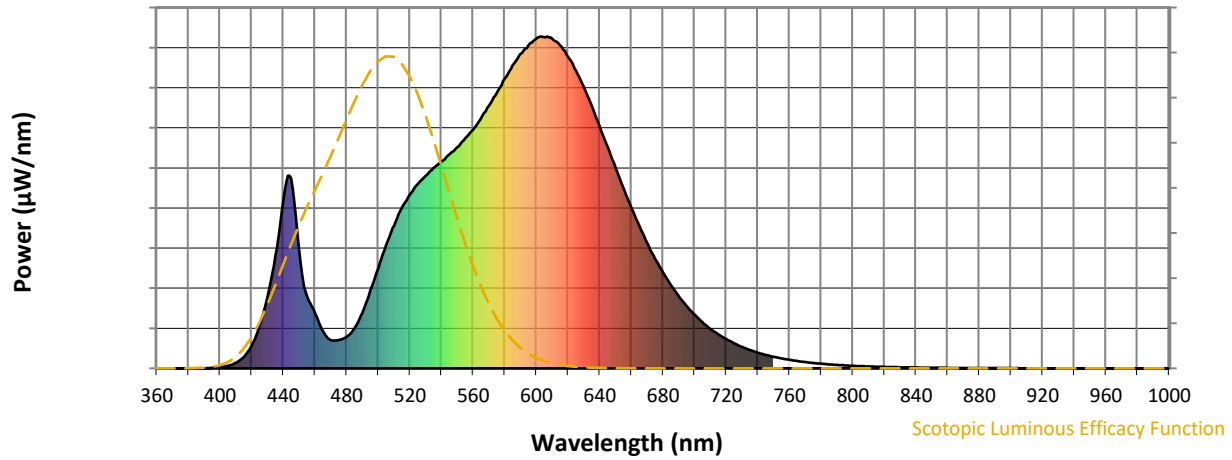


Photopic Lumens: NR

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



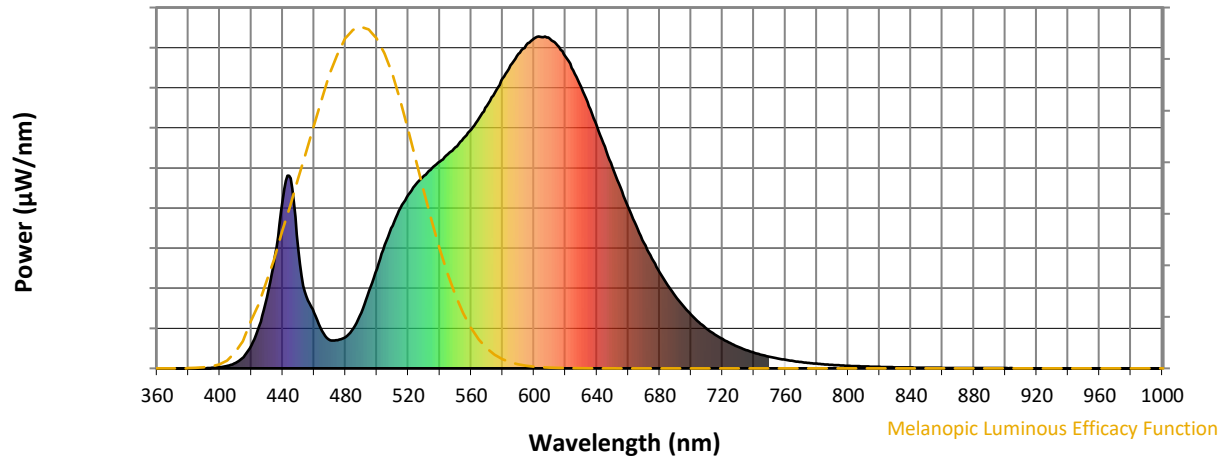
Scotopic Lumens: NR

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

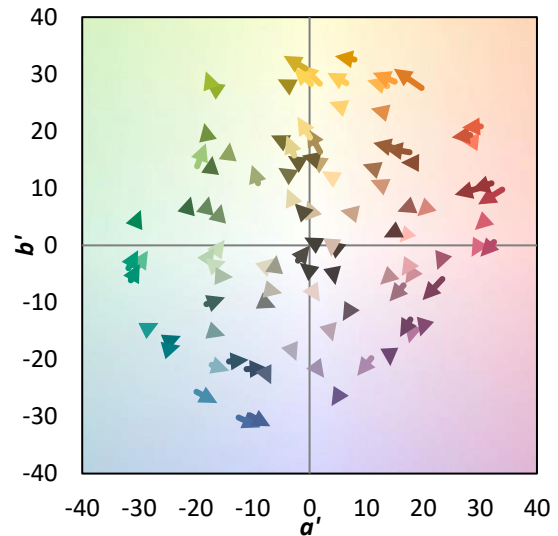
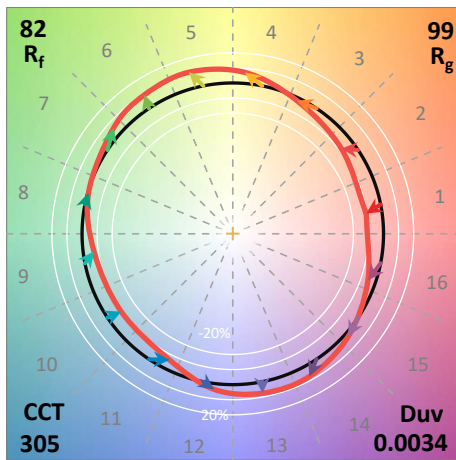
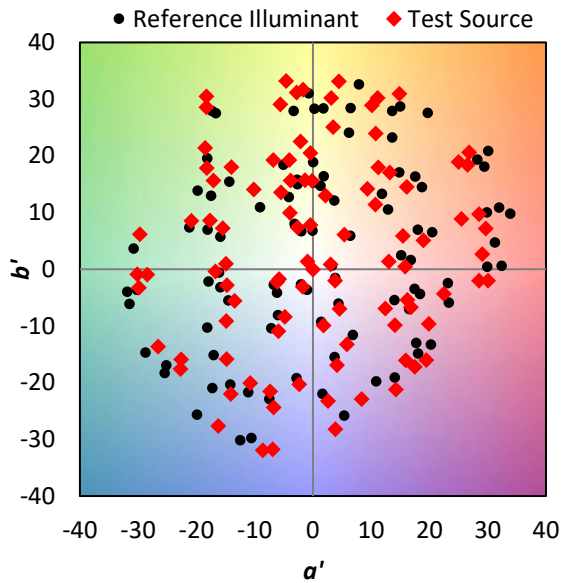
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300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

Summary

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

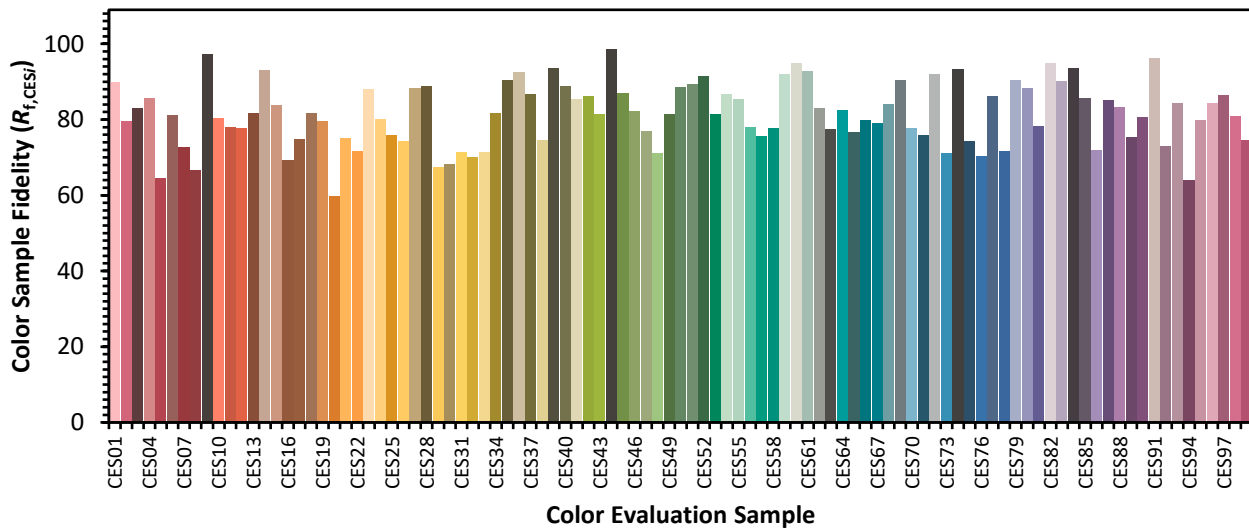


Color Vector Graphics

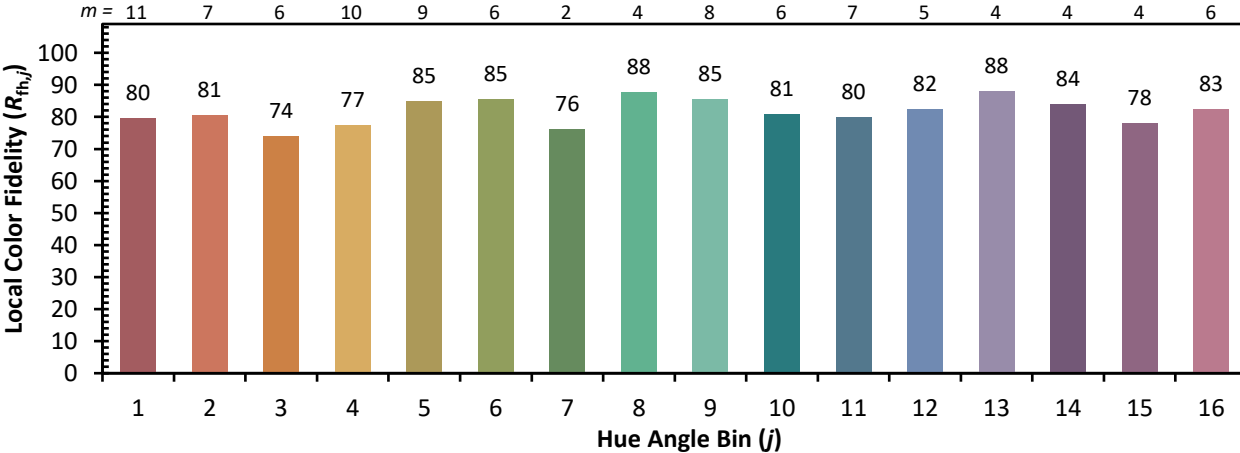
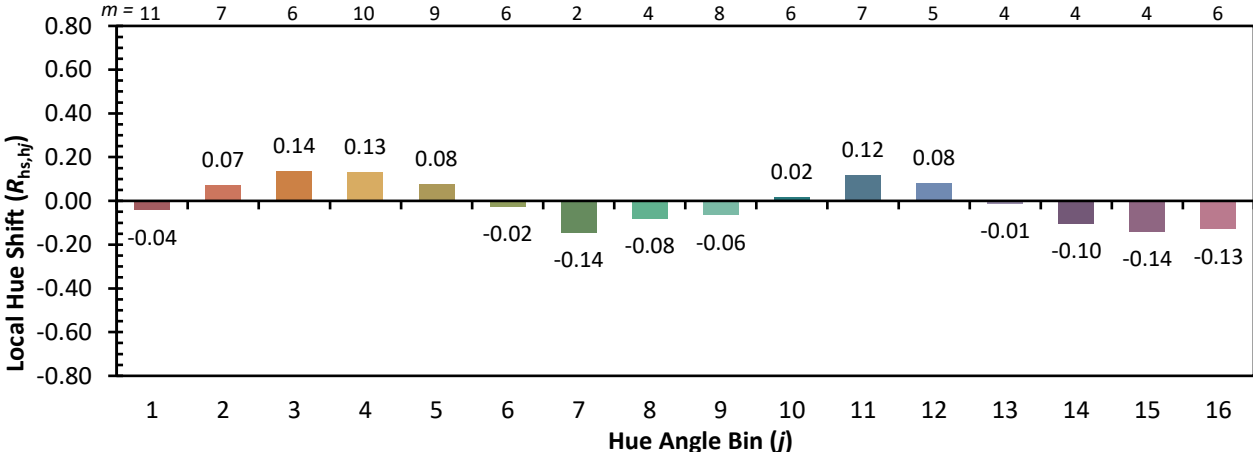
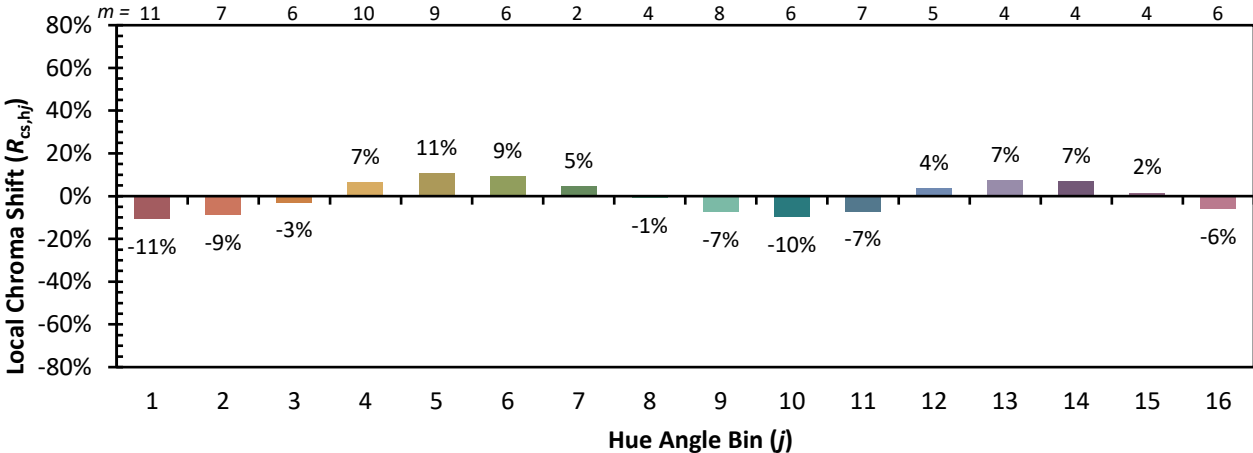


Individual Sample Fidelity Index ($R_{f,i}$)

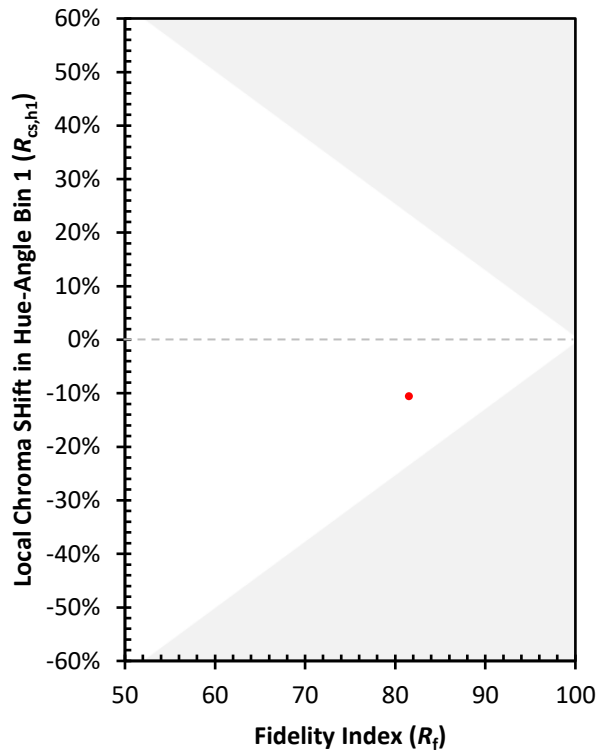
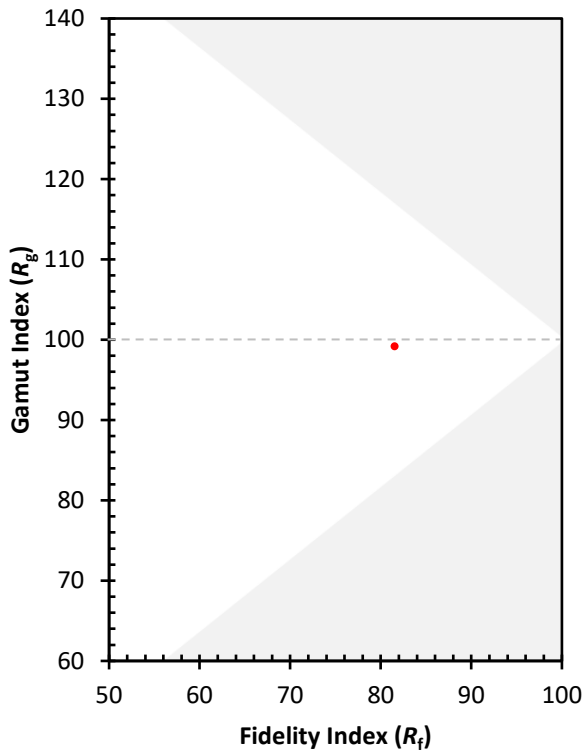
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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