

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: P1049755

Luminaire Tested: **GALN-SA2C-830-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049755
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-830-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 2xLight Square PACKAGE
80CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9306.7 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 96.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

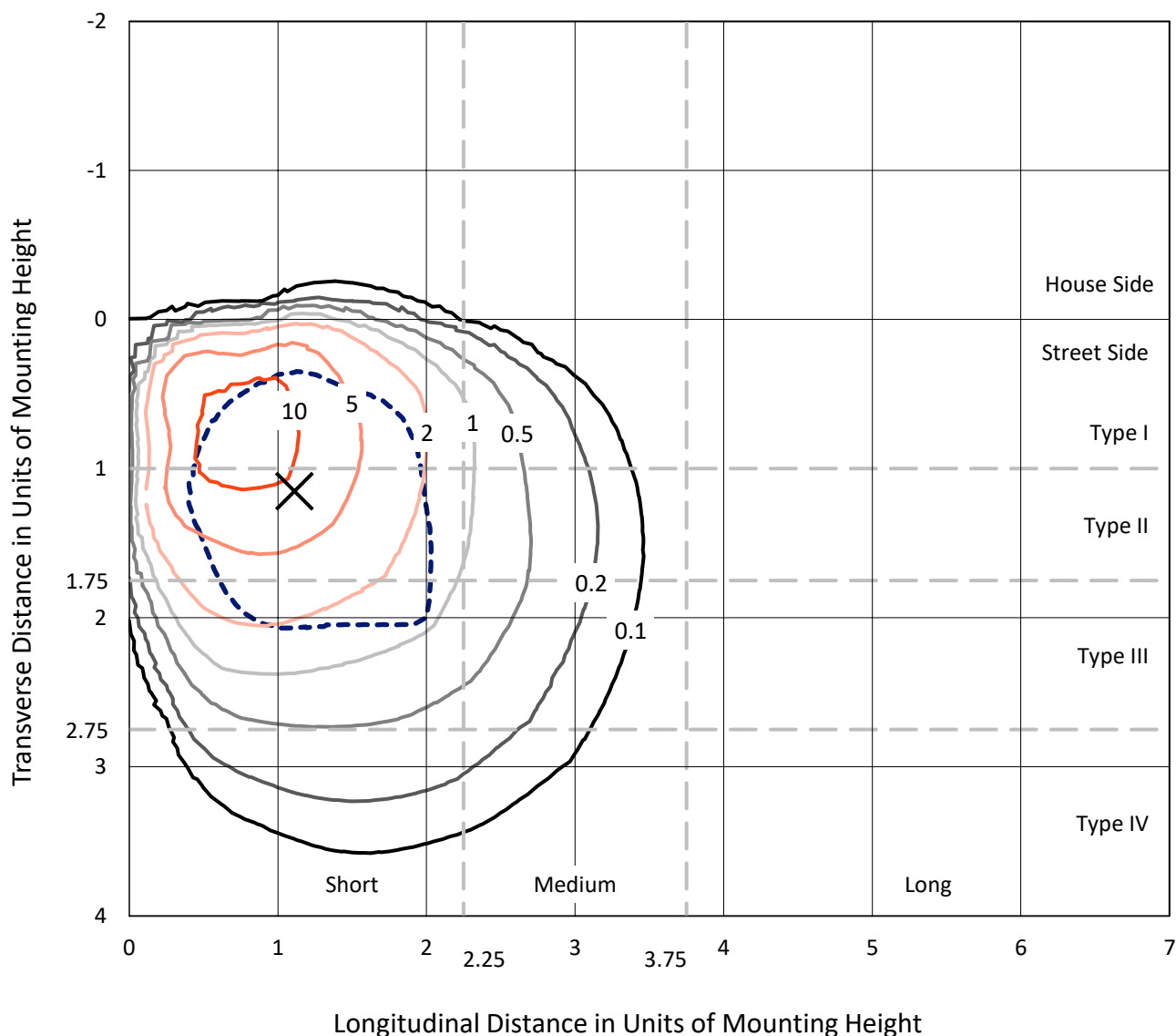
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



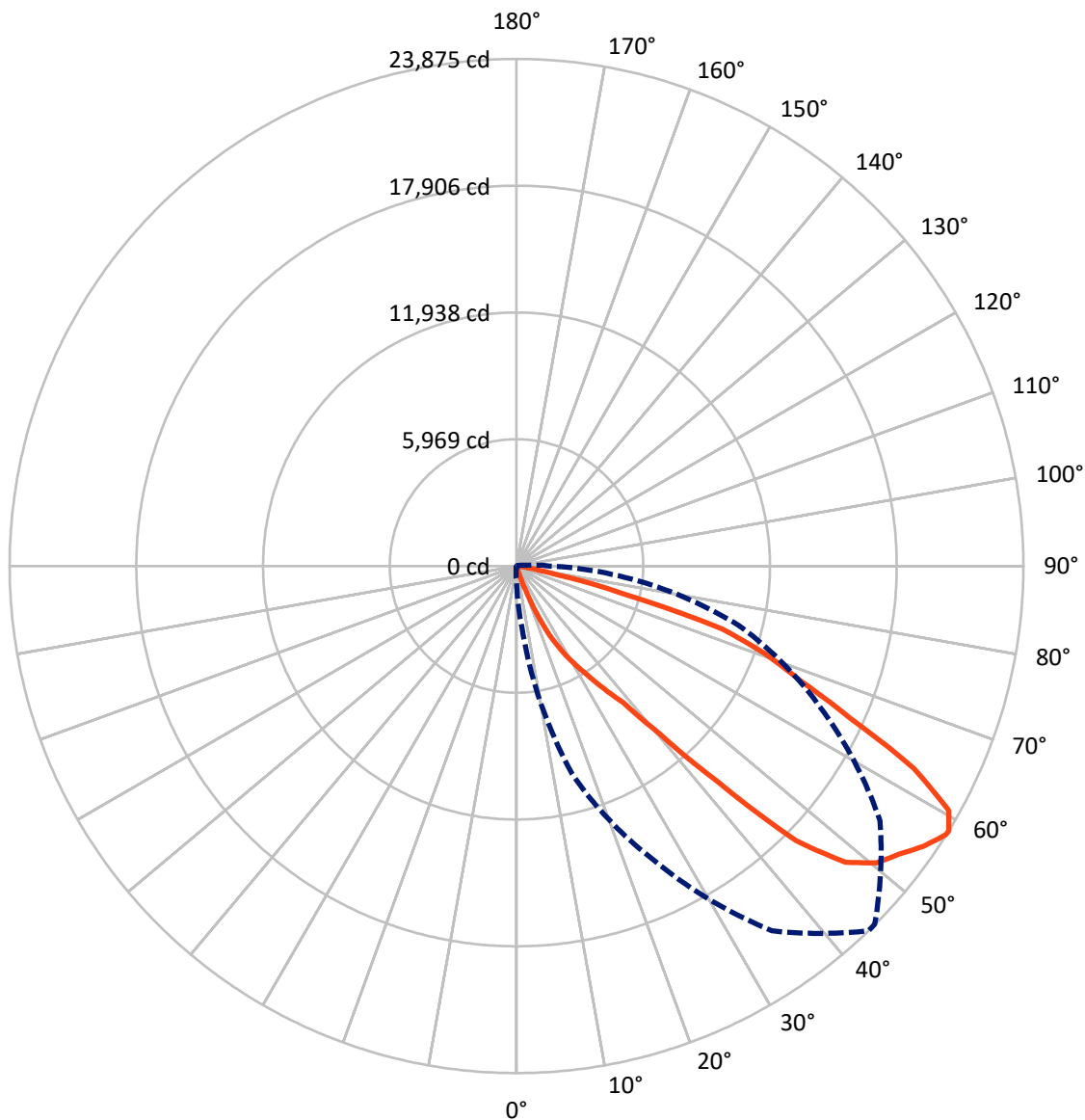
Based on 20 foot mounting height. Maximum calculated value = 16.2 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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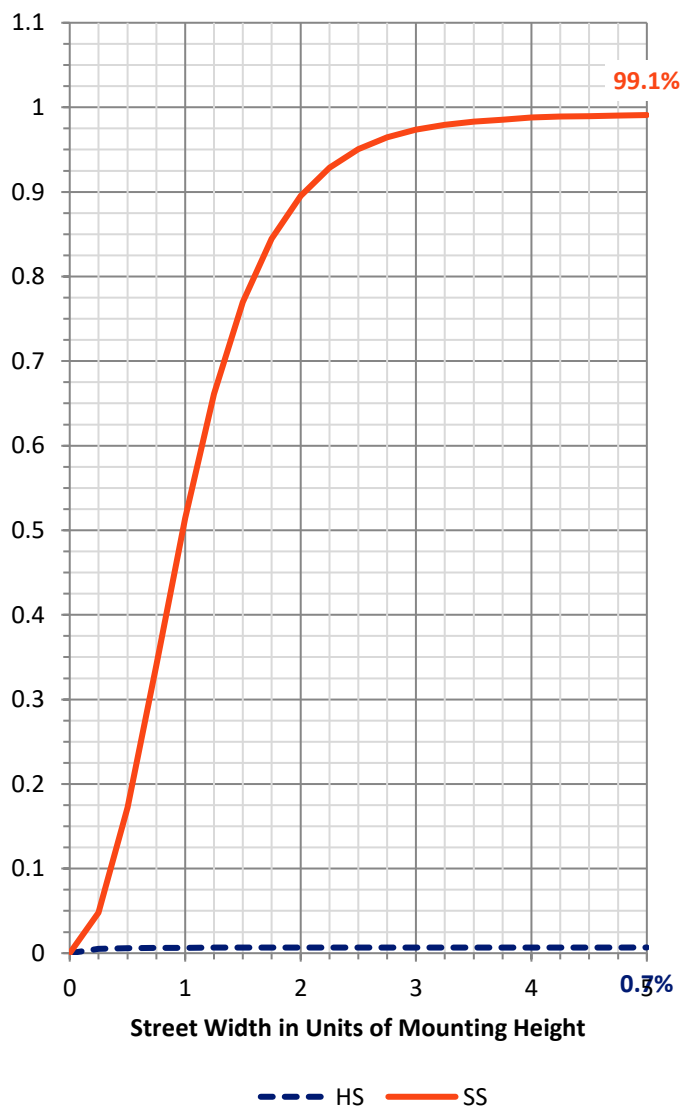
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	63.5	0.0	63.5
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	9243.1	0.0	9243.1
	% Fixture	99.3	0.0	99.3
Total	Lumens	9306.7	0.0	9306.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.6	0.0
10°-20°	20.4	0.2
20°-30°	220.5	2.4
30°-40°	652.0	7.0
40°-50°	1943.4	20.9
50°-60°	3083.7	33.1
60°-70°	2572.2	27.6
70°-80°	793.3	8.5
80°-90°	17.6	0.2
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°	9306.7	100.0
0°-180°	9306.7	100.0



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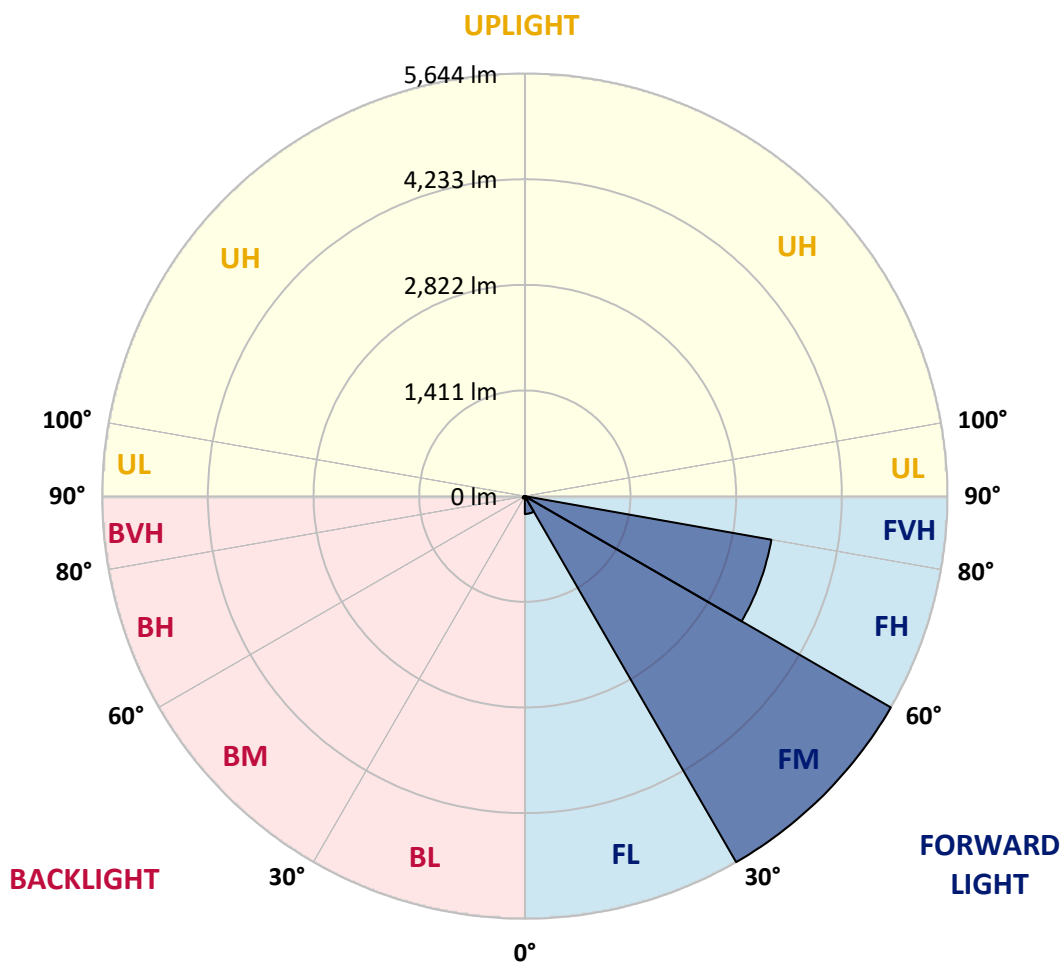
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	238.3	2.6			
FM	(30°-60°)	5644.3	60.6			
FH	(60°-80°)	3343.8	35.9			G2/5000
FVH	(80°-90°)	16.8	0.2			G1/100
BL	(0°-30°)	6.2	0.1	B0/110		
BM	(30°-60°)	34.8	0.4	B0/220		
BH	(60°-80°)	21.7	0.2	B0/110		G0/110
BVH	(80°-90°)	0.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
2.5°	52.7	52.7	50.6	47.8	45.0	42.2	41.5	40.1	39.4	38.7
5°	54.8	54.8	54.1	52.0	49.2	47.1	47.1	45.0	43.6	42.2
7.5°	56.2	56.9	58.4	57.6	56.2	54.1	54.1	52.7	50.6	47.1
10°	58.4	60.5	63.3	64.7	65.4	65.4	64.7	64.0	60.5	55.5
12.5°	60.5	64.7	71.7	78.7	83.0	88.6	87.9	86.5	77.3	66.8
15°	64.7	71.0	85.8	106.2	137.8	157.5	165.2	158.2	128.0	90.0
17.5°	69.6	80.1	124.4	222.2	364.2	431.7	472.4	439.4	291.1	170.8
20°	74.5	97.7	231.3	575.8	944.9	1165.6	1226.8	1131.2	726.2	325.5
22.5°	83.0	137.1	468.9	1190.2	2036.0	2367.1	2429.7	2123.9	1371.6	642.6
25°	100.5	199.0	808.5	1939.7	3038.5	3597.5	3571.4	3170.7	2225.1	1026.4
27.5°	125.8	289.7	1222.6	2755.9	3998.9	4491.7	4550.8	4055.1	2966.1	1509.4
30°	162.4	401.4	1666.9	3409.7	4768.7	5301.6	5311.5	4798.9	3629.1	1933.4
32.5°	197.6	506.9	2055.7	4041.8	5527.3	6111.5	6155.1	5524.5	4124.0	2374.9
35°	224.3	575.8	2449.4	4597.2	6292.2	7097.2	7094.4	6345.6	4710.4	2769.3
37.5°	226.4	644.7	2805.8	5165.2	7261.0	8162.3	8251.6	7426.2	5419.0	3257.2
40°	221.5	722.0	3257.2	6051.1	9006.6	10389.5	10468.3	9427.8	6840.6	4092.4
42.5°	227.1	856.3	3989.8	7687.0	11905.3	13891.4	14043.2	12949.3	9453.8	5796.6
45°	256.6	1108.7	5524.5	10424.0	16037.0	18458.3	18407.7	16832.2	12494.4	8390.8
47.5°	354.3	1726.7	7799.5	13087.8	18677.7	20833.9	20877.5	18951.8	14268.9	10385.3
50°	544.9	2642.0	9711.1	14496.0	19813.1	21976.3	21935.5	19710.4	14943.1	11367.4
52.5°	708.7	3304.3	10670.0	14990.2	19958.6	22540.9	22538.0	19910.1	15047.9	11451.8
55°	749.4	3354.2	10677.8	15016.9	20284.8	23279.8	23372.6	20401.5	15183.5	11083.4
57.5°	733.3	2969.6	10232.0	15171.6	20865.5	23851.3	23856.2	20877.5	15528.0	10857.7
58°	719.2	2909.2	10142.1	15259.5	20965.3	23875.2	23863.3	20899.3	15808.6	10849.3
60°	640.5	2526.0	9791.2	15483.7	20817.0	23384.5	23272.7	20423.3	15767.1	10762.8
62.5°	503.4	1970.6	9446.0	15224.3	19226.7	21008.9	21055.3	18081.5	14373.6	10258.8
65°	400.7	1468.7	8726.1	13354.2	15832.5	17252.6	17425.5	14703.4	11997.4	8686.8
67.5°	319.2	1061.6	7320.0	10632.1	12528.2	14399.0	14524.8	12344.7	9294.9	6655.7
70°	259.4	717.8	5052.7	7775.6	10333.3	12436.8	12444.5	10255.2	6937.6	4361.0
72.5°	229.9	497.0	2933.1	5670.7	8378.8	10134.3	9929.7	8321.9	5331.9	2583.0
75°	199.0	329.7	1438.4	3466.7	5080.2	5114.6	5192.7	3860.4	2665.2	1228.2
77.5°	163.8	234.1	566.7	947.0	1523.5	1950.2	2022.6	1532.6	886.5	302.3
80°	112.5	111.1	152.6	290.4	435.9	546.3	509.7	394.4	232.0	116.0
82.5°	48.5	52.7	68.9	83.0	67.5	65.4	62.6	40.1	30.9	23.9
85°	15.5	14.1	14.8	14.8	12.0	9.1	9.1	4.2	0.0	0.0
87.5°	7.7	6.3	6.3	5.6	3.5	1.4	0.7	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



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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
40.8	0°	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
38.0	2.5°	37.3	37.3	35.9	34.4	33.7	32.3	31.6	30.9	30.2	29.5
40.8	5°	39.4	38.7	36.6	34.4	32.3	30.2	28.8	27.4	26.0	25.3
45.0	7.5°	42.9	41.5	37.3	33.7	30.9	28.1	26.7	24.6	23.2	21.1
49.9	10°	47.1	44.3	38.7	34.4	30.2	26.7	24.6	22.5	20.4	17.6
56.9	12.5°	52.7	47.8	40.8	33.7	28.8	24.6	22.5	19.7	17.6	15.5
66.1	15°	57.6	51.3	41.5	33.7	27.4	22.5	19.7	16.9	14.8	12.0
83.0	17.5°	64.7	54.1	40.8	31.6	25.3	19.7	16.9	14.8	11.2	7.0
123.0	20°	76.6	56.2	39.4	29.5	21.8	16.2	12.7	9.8	4.9	1.4
184.9	22.5°	95.6	61.9	38.0	26.7	19.0	12.7	8.4	3.5	0.0	0.0
281.2	25°	132.2	71.7	38.0	25.3	16.9	9.1	2.8	0.0	0.0	0.0
399.3	27.5°	175.8	85.1	38.0	21.8	13.4	4.9	0.0	0.0	0.0	0.0
544.2	30°	220.1	99.8	38.0	19.0	10.5	0.7	0.0	0.0	0.0	0.0
670.0	32.5°	262.2	112.5	38.7	16.2	7.0	0.0	0.0	0.0	0.0	0.0
844.4	35°	305.1	114.6	38.0	14.1	4.2	0.0	0.0	0.0	0.0	0.0
1058.1	37.5°	360.0	110.4	35.9	12.7	2.1	0.0	0.0	0.0	0.0	0.0
1392.0	40°	442.9	112.5	33.7	12.0	0.7	0.0	0.0	0.0	0.0	0.0
1987.5	42.5°	596.2	121.6	30.9	12.0	0.0	0.0	0.0	0.0	0.0	0.0
3165.8	45°	1030.7	163.1	28.1	12.7	0.0	0.0	0.0	0.0	0.0	0.0
4752.5	47.5°	1704.9	293.2	27.4	12.7	0.0	0.0	0.0	0.0	0.0	0.0
5724.9	50°	2175.9	369.1	28.8	13.4	0.0	0.0	0.0	0.0	0.0	0.0
5846.5	52.5°	2172.4	411.3	30.2	14.1	2.8	0.0	0.0	0.0	0.0	0.0
5388.8	55°	1931.3	419.0	32.3	15.5	9.1	0.0	0.0	0.0	0.0	0.0
4630.9	57.5°	1614.2	382.5	37.3	19.0	16.9	0.0	0.0	0.0	0.0	0.0
4512.1	58°	1557.9	365.6	38.7	19.7	18.3	0.0	0.0	0.0	0.0	0.0
3913.8	60°	1276.7	298.1	49.2	24.6	24.6	0.0	0.0	0.0	0.0	0.0
3208.7	62.5°	881.6	260.1	56.2	31.6	25.3	0.0	0.0	0.0	0.0	0.0
2365.7	65°	623.6	234.8	61.2	33.7	20.4	0.0	0.0	0.0	0.0	0.0
1681.0	67.5°	466.1	216.5	67.5	34.4	10.5	0.0	0.0	0.0	0.0	0.0
1054.6	70°	357.1	203.2	83.0	36.6	2.8	0.0	0.0	0.0	0.0	0.0
628.5	72.5°	291.1	187.7	100.5	38.0	0.0	0.0	0.0	0.0	0.0	0.0
376.8	75°	241.1	169.4	97.0	41.5	0.0	0.0	0.0	0.0	0.0	0.0
201.1	77.5°	160.3	131.5	88.6	41.5	0.0	0.0	0.0	0.0	0.0	0.0
71.7	80°	56.2	52.0	68.9	36.6	0.0	0.0	0.0	0.0	0.0	0.0
14.8	82.5°	8.4	7.0	9.8	12.7	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

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CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
40.8	0°	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
28.8	2.5°	28.8	28.8	28.1	28.8	28.8	30.2	33.7	38.7	44.3	46.4
24.6	5°	23.9	23.2	22.5	22.5	22.5	24.6	27.4	33.0	39.4	42.2
20.4	7.5°	19.7	19.0	18.3	17.6	17.6	19.0	22.5	28.8	35.2	38.0
16.9	10°	16.2	14.8	14.1	13.4	13.4	14.8	18.3	24.6	31.6	34.4
14.1	12.5°	13.4	11.2	9.8	9.1	8.4	10.5	14.1	19.7	27.4	30.9
10.5	15°	9.1	7.0	4.9	4.2	3.5	5.6	9.1	15.5	23.2	27.4
5.6	17.5°	4.9	2.1	0.7	0.0	0.0	1.4	4.2	11.2	19.0	22.5
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	14.1	17.6
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	8.4	12.0
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	6.3
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
0.0	30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	80°	0.0	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	2.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.6
0.0	90°	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):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
40.8	0°	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
48.5	2.5°	49.9	49.2	47.8	46.4	46.4	46.4	48.5	50.6	52.7	52.7
43.6	5°	46.4	46.4	45.7	44.3	44.3	45.0	47.8	51.3	54.1	54.8
40.1	7.5°	42.9	44.3	42.9	42.2	42.9	43.6	46.4	50.6	54.8	56.2
37.3	10°	40.8	41.5	41.5	40.8	40.8	42.2	45.0	50.6	56.2	58.4
33.7	12.5°	38.0	39.4	38.7	38.7	38.7	40.1	43.6	49.9	57.6	60.5
30.2	15°	35.2	37.3	37.3	36.6	36.6	37.3	42.2	49.2	59.8	64.7
26.0	17.5°	32.3	34.4	35.2	33.7	33.7	35.2	40.1	49.2	61.2	69.6
21.1	20°	26.7	30.2	32.3	30.2	30.2	31.6	36.6	46.4	61.9	74.5
15.5	22.5°	21.1	24.6	27.4	26.7	26.7	27.4	33.7	44.3	62.6	83.0
9.1	25°	15.5	19.0	21.1	22.5	22.5	24.6	30.9	42.9	65.4	100.5
4.2	27.5°	9.1	13.4	16.2	17.6	18.3	21.1	28.8	41.5	70.3	125.8
0.0	30°	4.2	7.7	11.2	14.1	14.1	19.0	26.7	40.1	76.6	162.4
0.0	32.5°	0.0	3.5	5.6	9.8	10.5	15.5	24.6	38.7	85.8	197.6
0.0	35°	0.0	0.0	2.8	7.7	7.7	12.7	22.5	37.3	99.8	224.3
0.0	37.5°	0.0	0.0	0.0	5.6	6.3	11.2	21.8	36.6	102.6	226.4
0.0	40°	0.0	0.0	0.0	4.2	4.9	10.5	21.8	37.3	92.8	221.5
0.0	42.5°	0.0	0.0	0.0	2.8	3.5	10.5	21.8	38.7	83.7	227.1
0.0	45°	0.0	0.0	0.0	2.1	2.8	11.2	21.1	38.0	78.7	256.6
0.0	47.5°	0.0	0.0	0.0	2.8	4.2	11.2	20.4	37.3	79.4	354.3
0.0	50°	0.0	0.0	0.0	3.5	4.9	11.2	21.1	35.9	87.2	544.9
0.0	52.5°	0.0	0.0	0.0	2.8	4.2	12.7	23.2	35.2	94.9	708.7
0.0	55°	0.0	0.0	0.0	0.7	2.1	16.2	25.3	35.2	106.9	749.4
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	18.3	28.8	37.3	126.5	733.3
0.0	58°	0.0	0.0	0.0	0.0	0.0	18.3	29.5	37.3	128.0	719.2
0.0	60°	0.0	0.0	0.0	0.0	0.0	18.3	32.3	41.5	137.8	640.5
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	15.5	38.7	52.0	143.4	503.4
0.0	65°	0.0	0.0	0.0	0.0	0.0	12.7	45.7	56.9	147.6	400.7
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	12.0	47.1	57.6	149.7	319.2
0.0	70°	0.0	0.0	0.0	0.0	0.0	12.7	46.4	61.9	156.8	259.4
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	14.1	42.2	68.2	156.8	229.9
0.0	75°	0.0	0.0	0.0	0.0	0.0	14.8	39.4	76.6	142.7	199.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	14.1	38.7	89.3	127.3	163.8
0.0	80°	1.4	2.1	2.1	1.4	1.4	12.0	38.0	90.7	108.3	112.5
0.7	82.5°	4.2	5.6	4.9	3.5	3.5	10.5	33.7	75.9	56.2	48.5
4.2	85°	7.7	9.1	9.1	7.7	7.7	9.8	21.1	27.4	19.0	15.5
7.7	87.5°	10.5	12.0	12.0	10.5	10.5	9.8	9.1	8.4	7.7	7.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF RI



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-9

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-830-U-5WQ

Data in this report applies to families of products including GSS-SB1A-830-U-5WQ

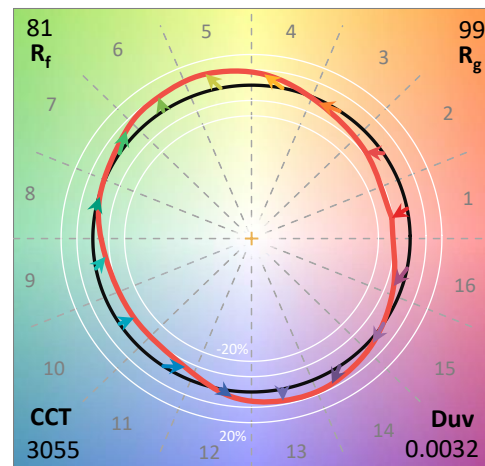
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-9
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/15/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGraw-Edison
 Catalog Number: **GSS-SB1A-830-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3055
 CIE u' : 0.2475
 CIE v' : 0.5247
 Duv: 0.0032
 CIE x: 0.4377
 CIE y: 0.4124
 CIE z: 0.1499
 Peak Wavelength (nm): 604
 Dominant Wavelength (nm): 581
 Purity: 55.16339
 R_f: 81.5
 R_g: 99.2

CRI (Ra): 80.9
 R1: 79.5
 R2: 85.6
 R3: 92.1
 R4: 82.4
 R5: 78.9
 R6: 81.7
 R7: 85.1
 R8: 61.9
 R9: 6.8
 R10: 67.1
 R11: 82.5
 R12: 63.4
 R13: 80.2
 R14: 95.1
 R15: 71.7



Test Conditions

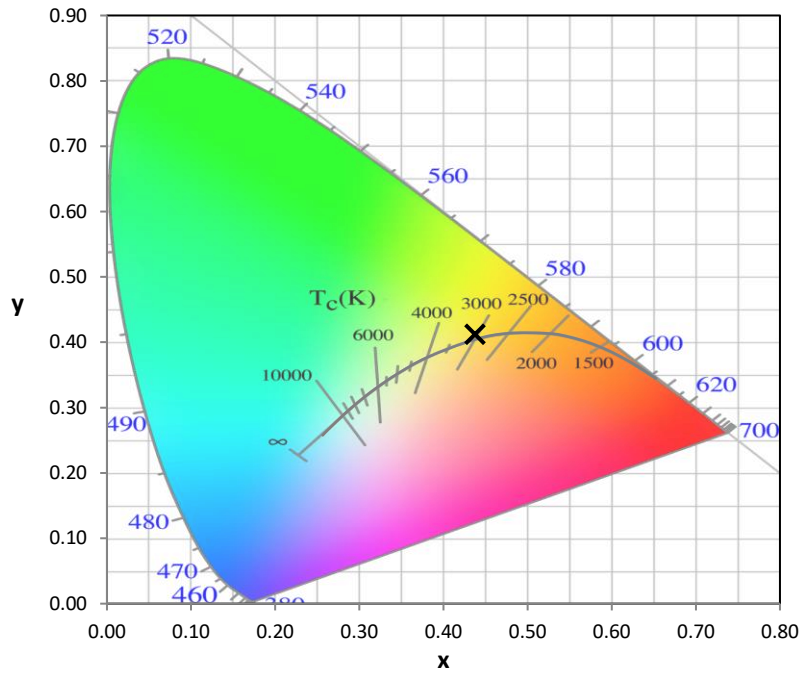
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-9

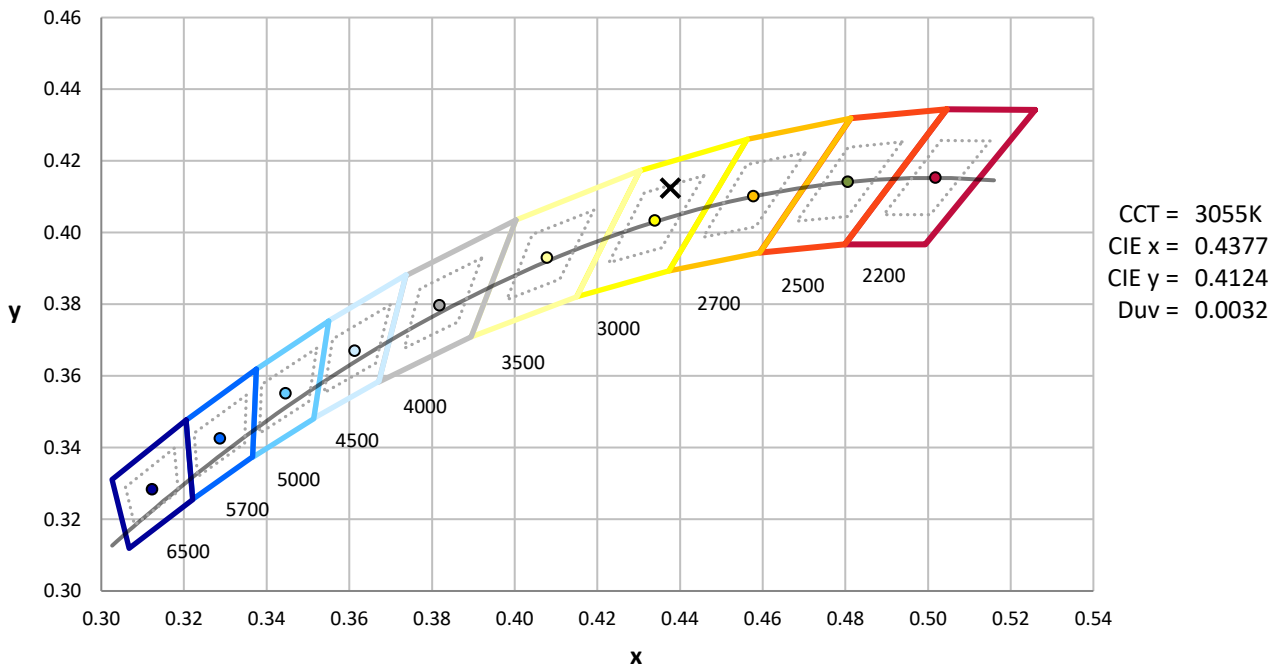
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-9

CIE 1931 Chromaticity Diagram



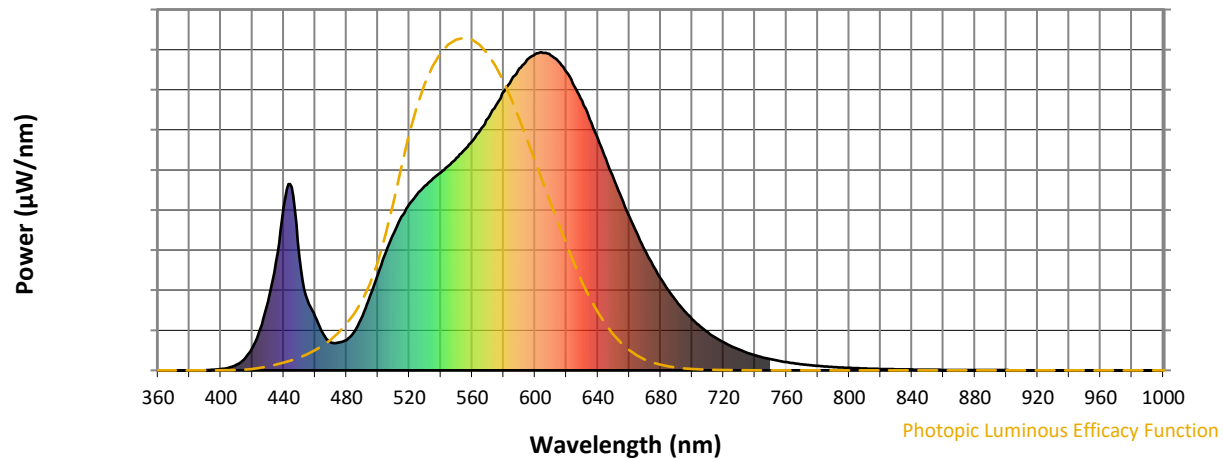
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-9

Photopic Flux vs. Wavelength

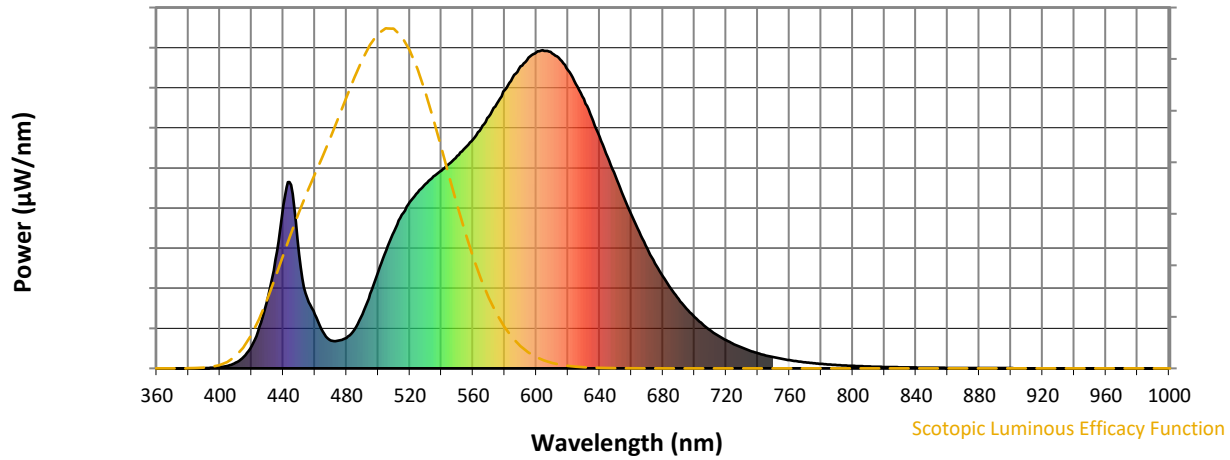


Photopic Lumens: NR

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

Scotopic Flux vs. Wavelength



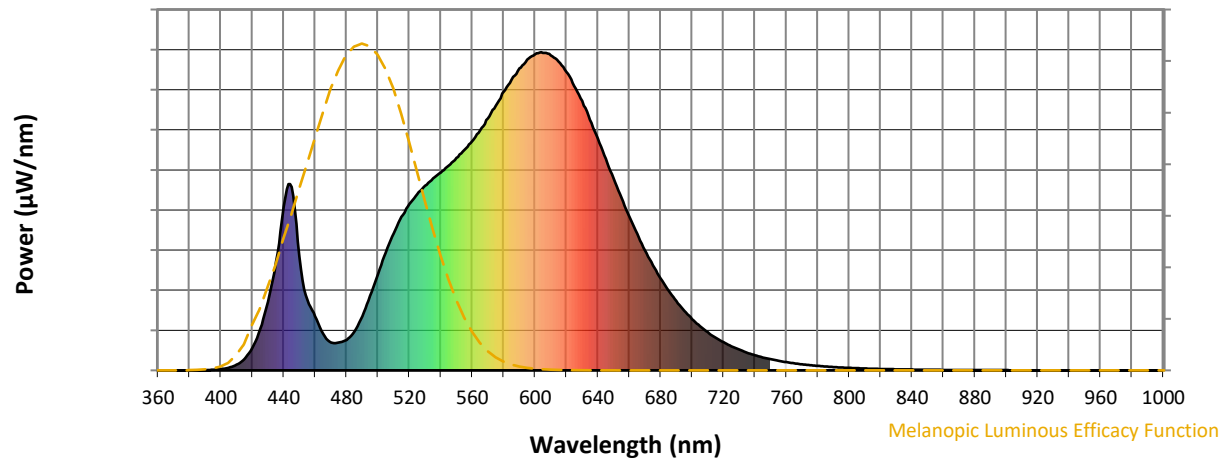
Scotopic Lumens: NR

S/P: 1.28

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.33

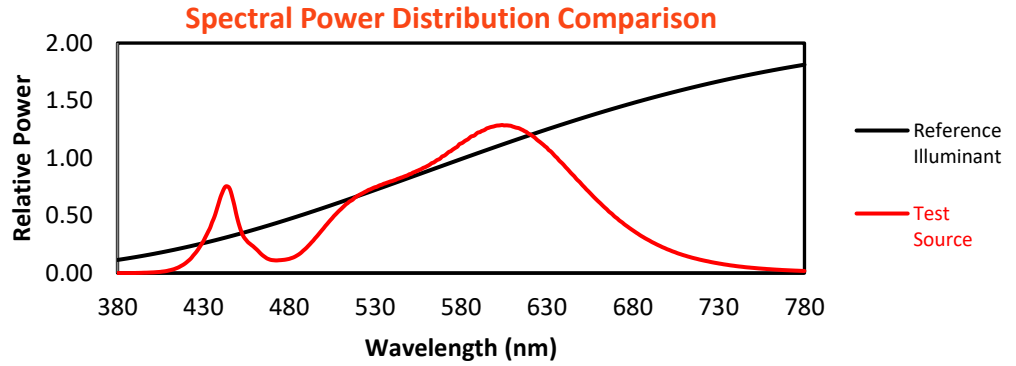
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

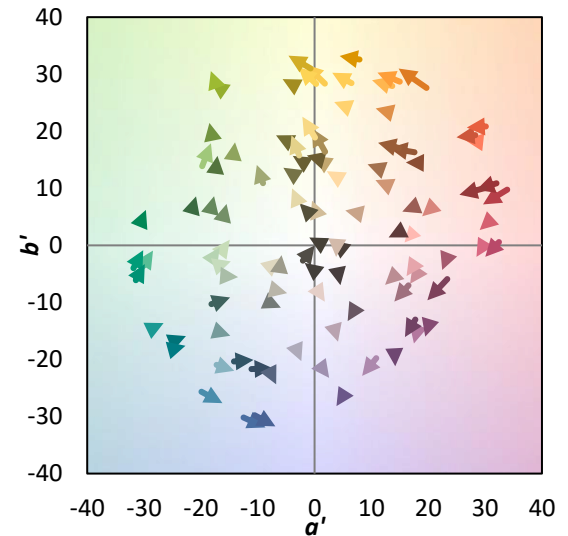
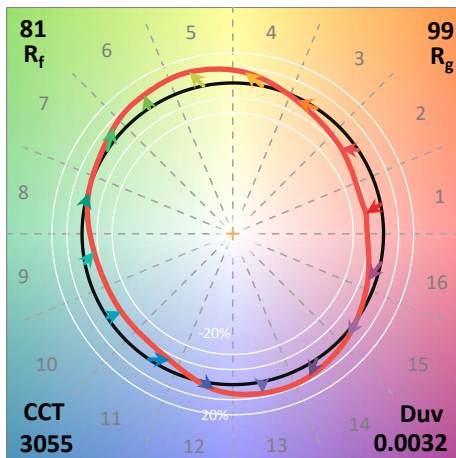
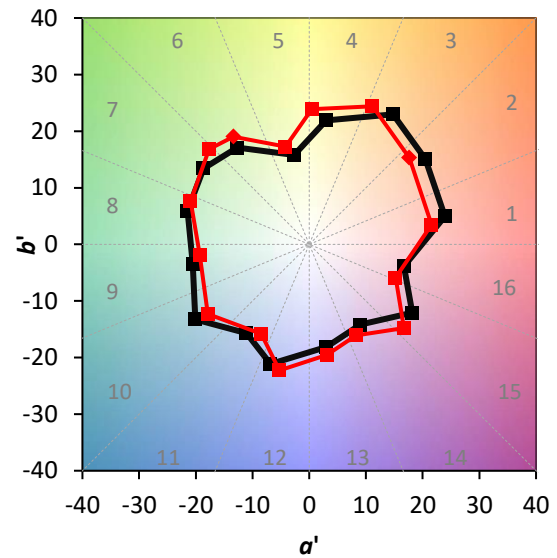
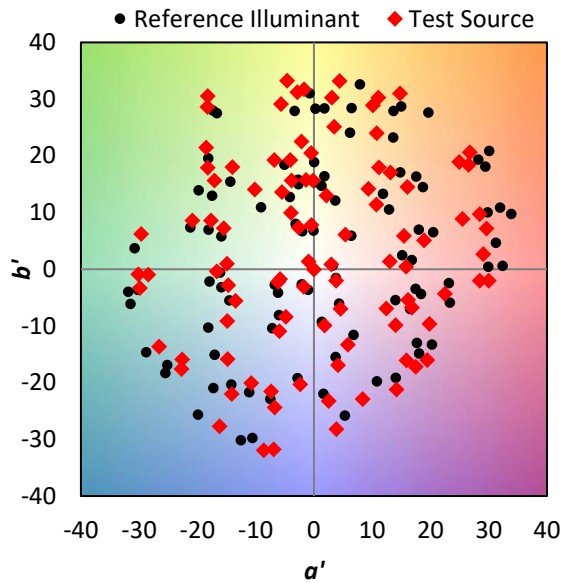
TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 80.9$
 $R_9 = 6.8$

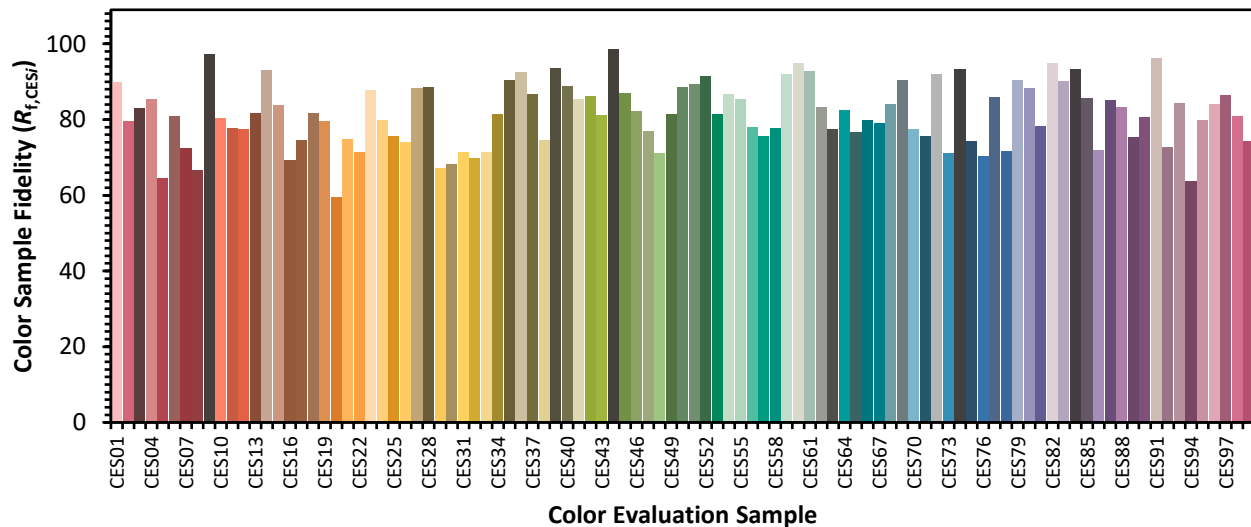


Color Vector Graphics

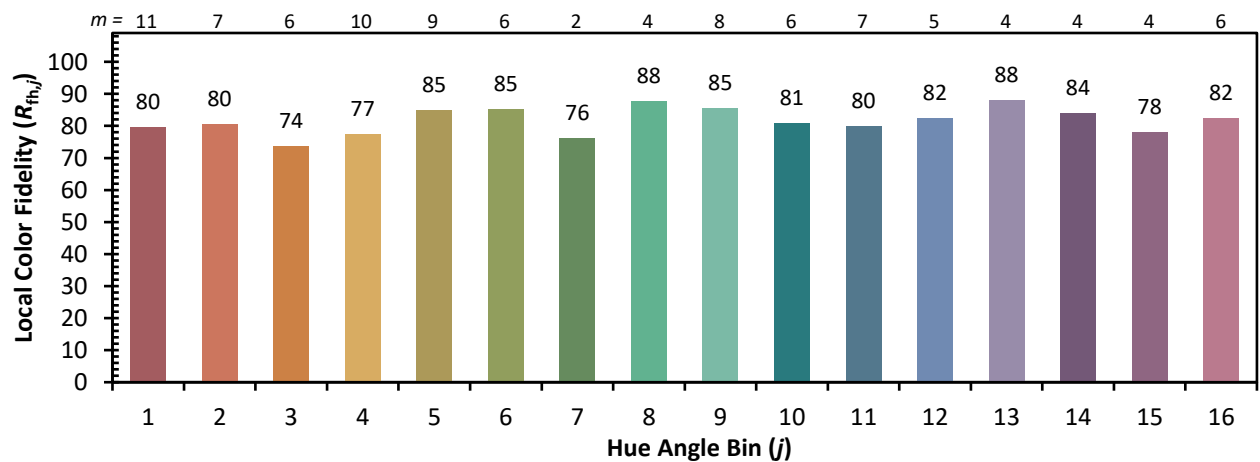
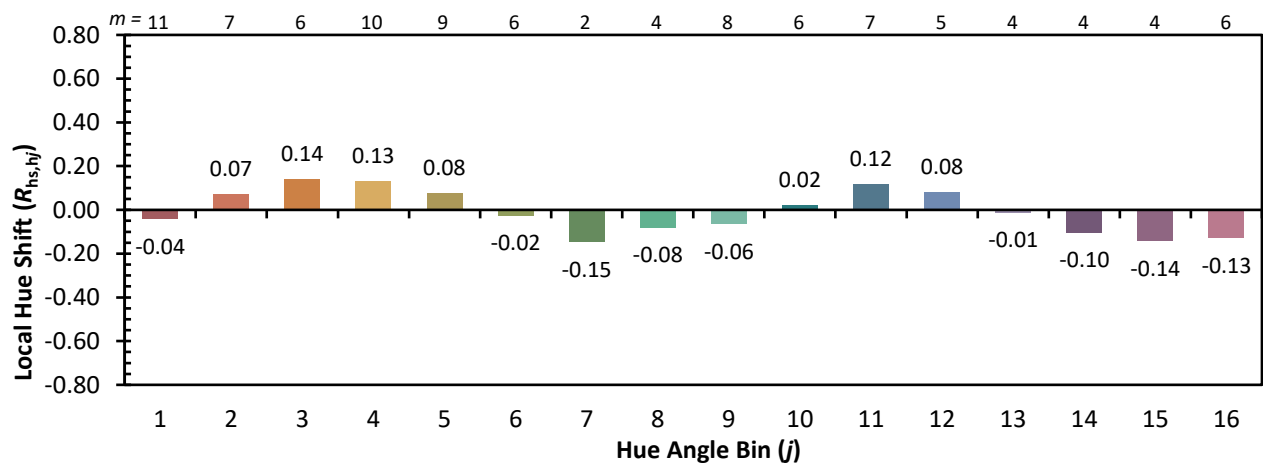
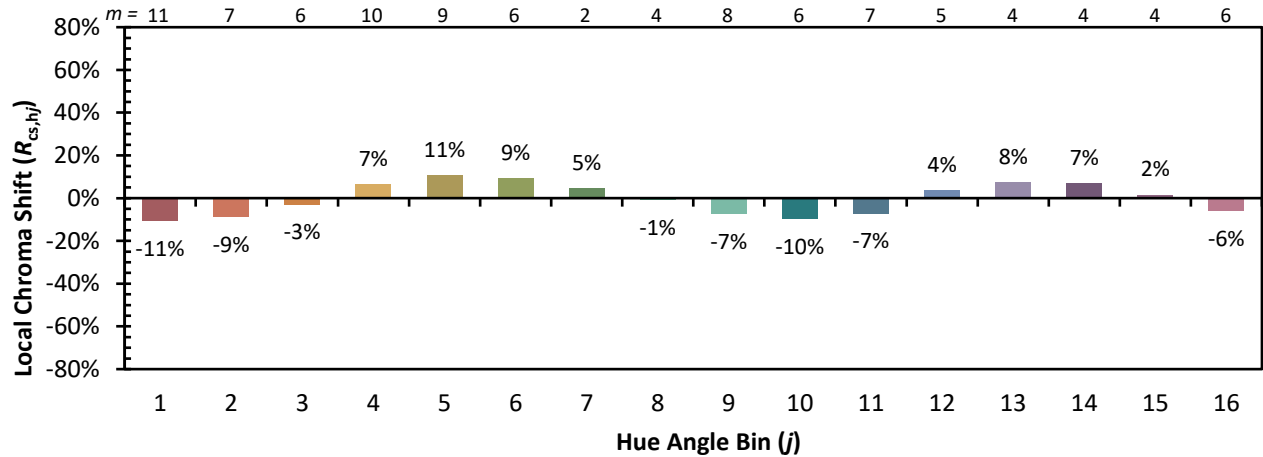


Individual Sample Fidelity Index ($R_{f,i}$)

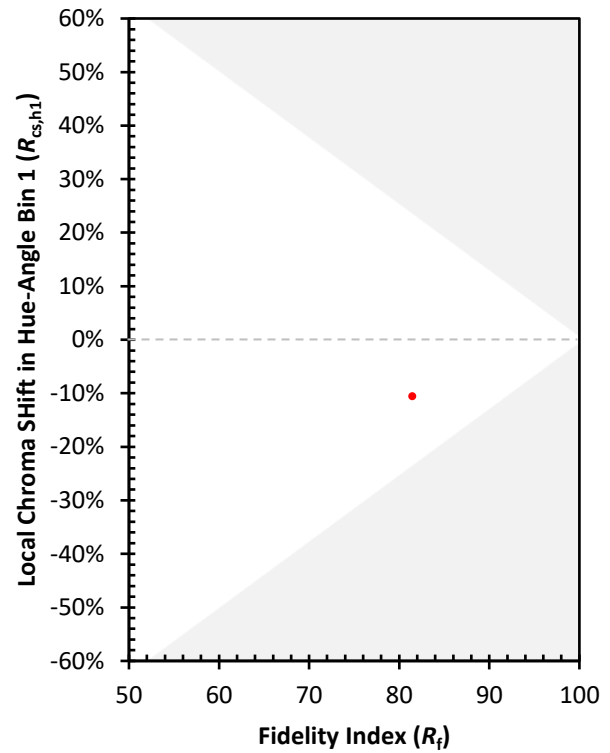
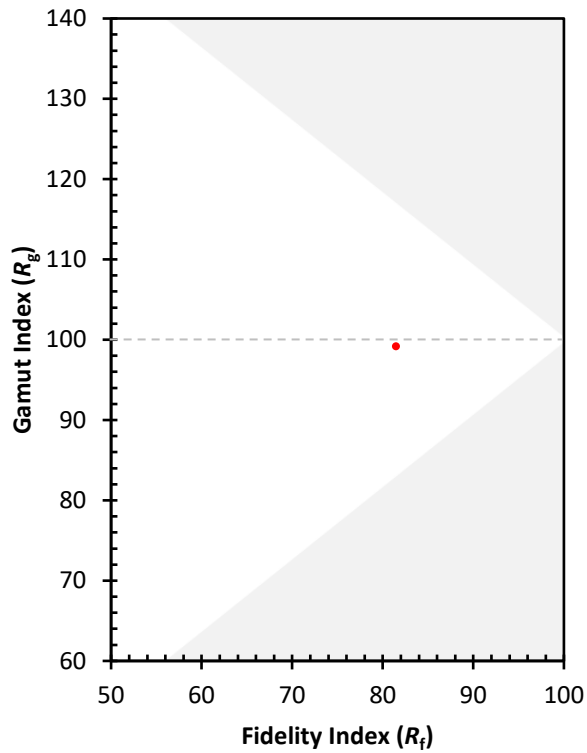
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 93
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 = 90	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 77	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)