

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: P1049931

Luminaire Tested: **GALN-SA1C-930-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049931
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-930-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 1xLight Square PACKAGE
90CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (14) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

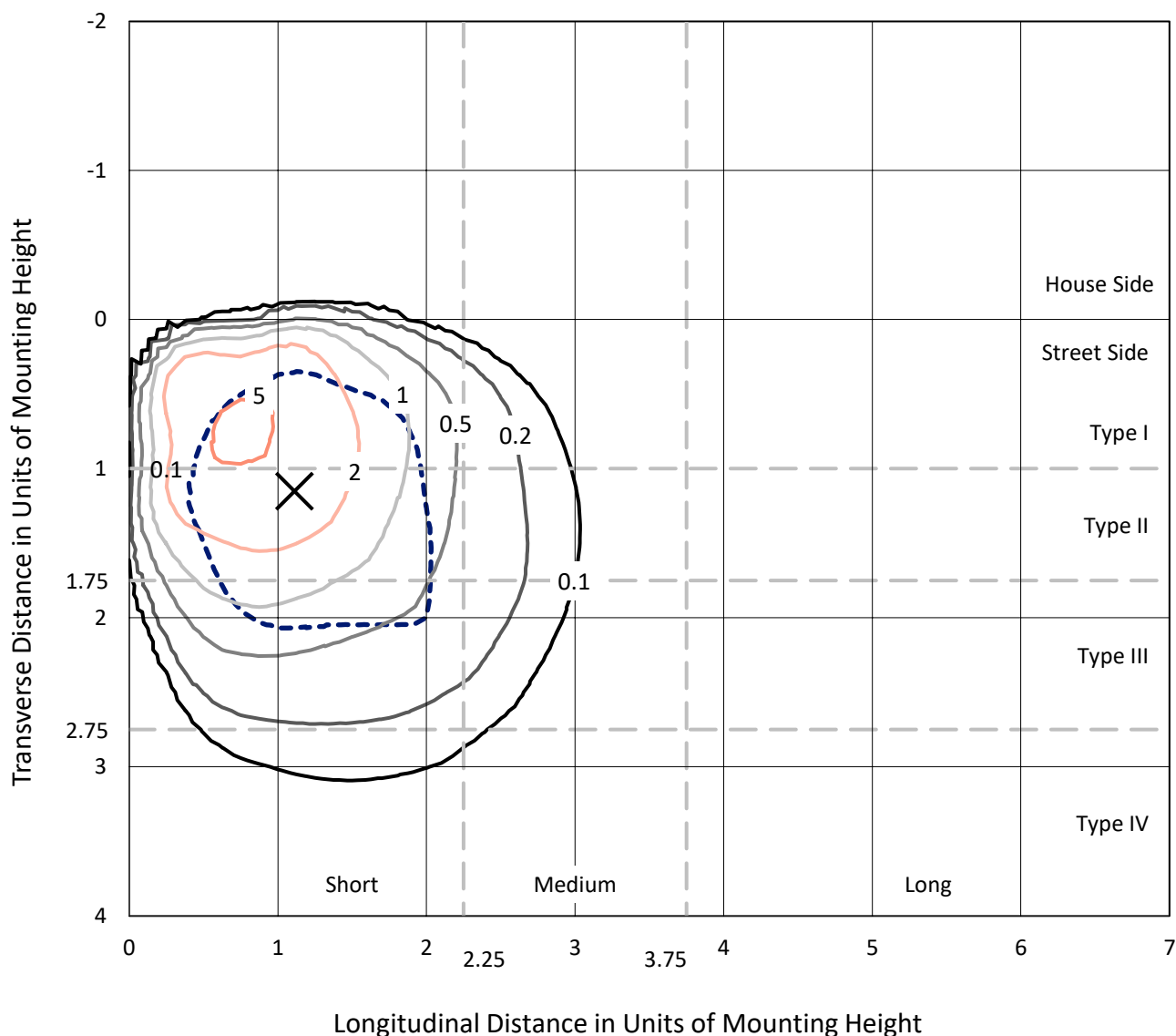
Lumens per Lamp: N/A
Luminaire Lumens: 3586.4 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 50.2
Input Voltage (V): 120
Input Current (Ain): 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

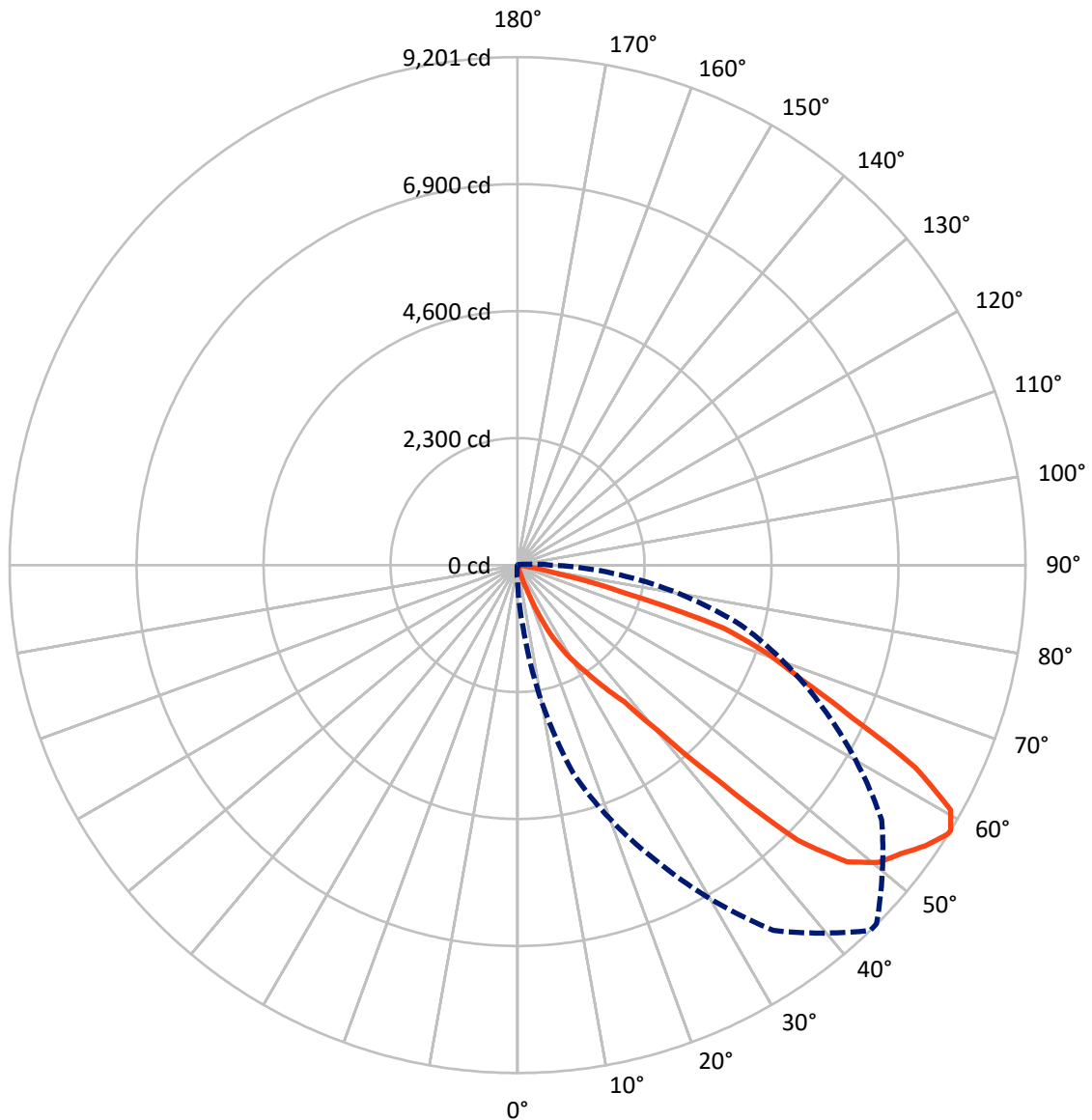
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.2 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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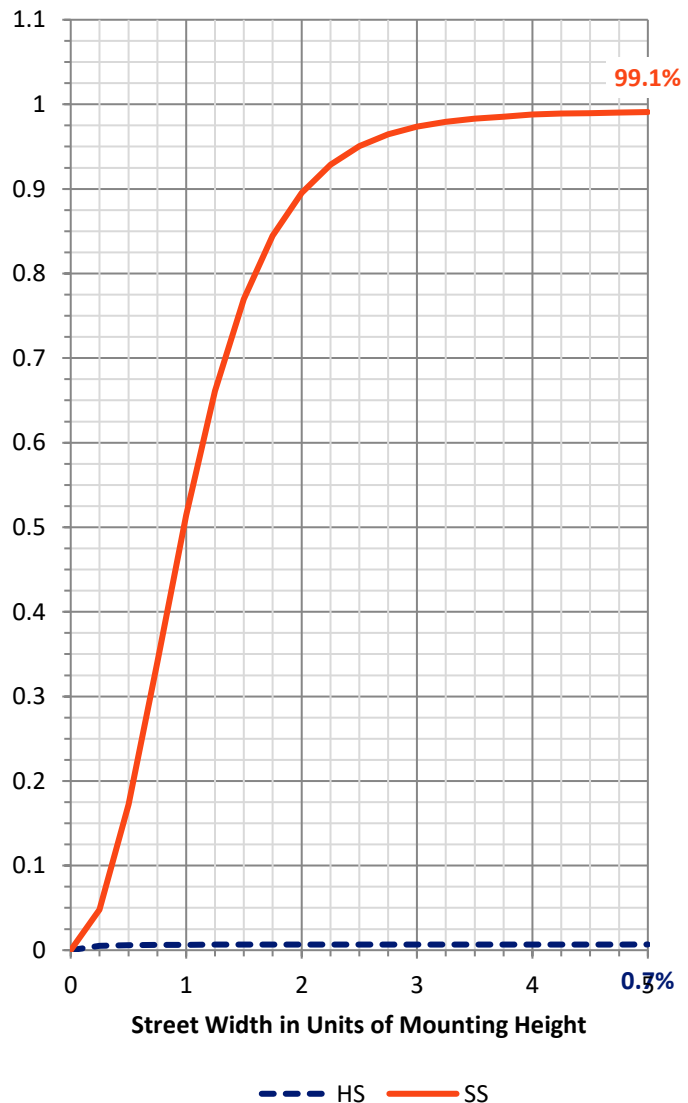
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24.5	0.0	24.5
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	3561.9	0.0	3561.9
	% Fixture	99.3	0.0	99.3
Total	Lumens	3586.4	0.0	3586.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.4	0.0
10°-20°	7.9	0.2
20°-30°	85.0	2.4
30°-40°	251.3	7.0
40°-50°	748.9	20.9
50°-60°	1188.3	33.1
60°-70°	991.2	27.6
70°-80°	305.7	8.5
80°-90°	6.8	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°	3586.4	100.0
0°-180°	3586.4	100.0



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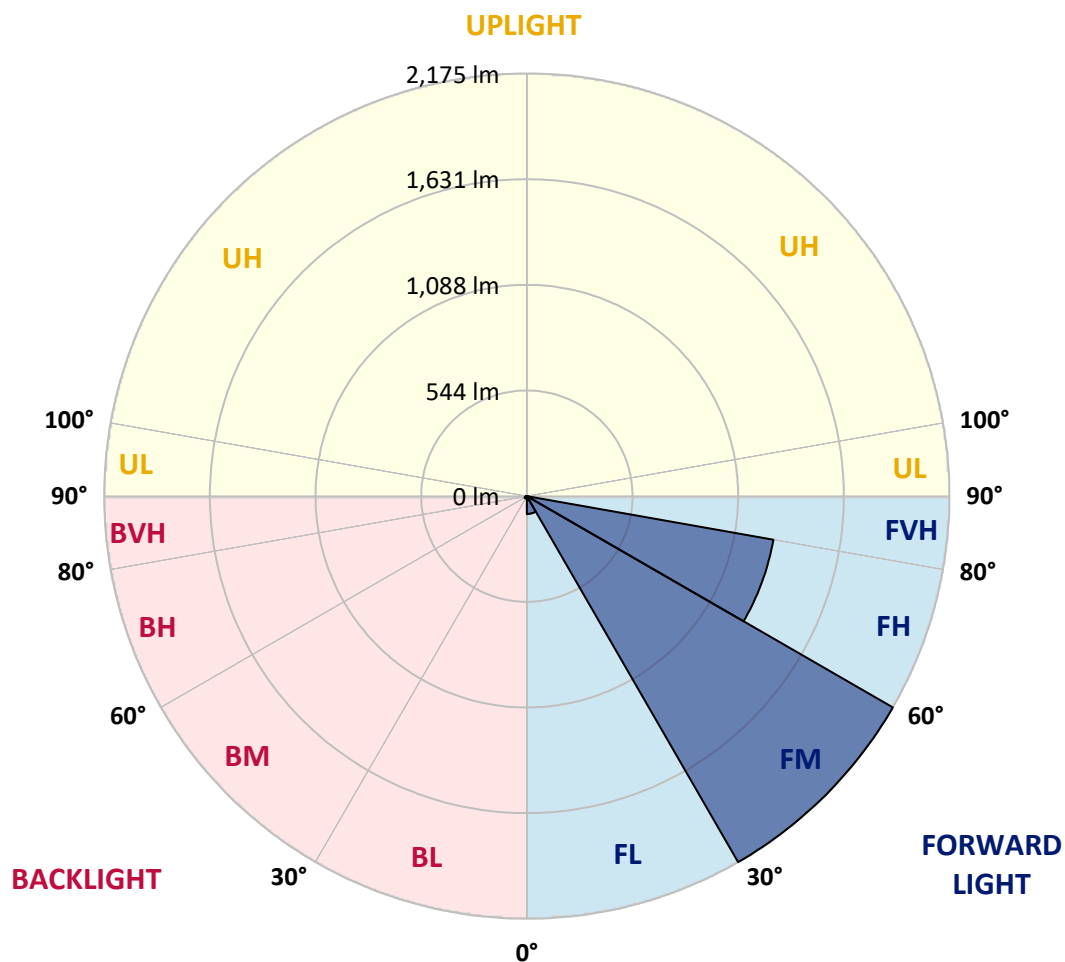
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	91.8	2.6			
FM	(30°-60°)	2175.1	60.6			
FH	(60°-80°)	1288.5	35.9			G1/1800
FVH	(80°-90°)	6.5	0.2			G0/10
BL	(0°-30°)	2.4	0.1	B0/110		
BM	(30°-60°)	13.4	0.4	B0/220		
BH	(60°-80°)	8.4	0.2	B0/110		G0/110
BVH	(80°-90°)	0.3	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7
2.5°	20.3	20.3	19.5	18.4	17.3	16.3	16.0	15.4	15.2	14.9
5°	21.1	21.1	20.9	20.0	19.0	18.2	18.2	17.3	16.8	16.3
7.5°	21.7	21.9	22.5	22.2	21.7	20.9	20.9	20.3	19.5	18.2
10°	22.5	23.3	24.4	24.9	25.2	25.2	24.9	24.7	23.3	21.4
12.5°	23.3	24.9	27.6	30.3	32.0	34.1	33.9	33.3	29.8	25.7
15°	24.9	27.4	33.1	40.9	53.1	60.7	63.7	61.0	49.3	34.7
17.5°	26.8	30.9	48.0	85.6	140.3	166.3	182.1	169.3	112.2	65.8
20°	28.7	37.7	89.1	221.9	364.1	449.2	472.8	435.9	279.9	125.4
22.5°	32.0	52.8	180.7	458.7	784.6	912.2	936.3	818.5	528.6	247.6
25°	38.7	76.7	311.6	747.5	1170.9	1386.3	1376.3	1221.9	857.5	395.5
27.5°	48.5	111.6	471.1	1062.0	1541.0	1730.9	1753.7	1562.7	1143.0	581.7
30°	62.6	154.7	642.4	1314.0	1837.7	2043.0	2046.8	1849.3	1398.5	745.0
32.5°	76.1	195.3	792.2	1557.5	2130.0	2355.1	2371.9	2128.9	1589.2	915.2
35°	86.4	221.9	943.9	1771.6	2424.8	2735.0	2733.9	2445.4	1815.2	1067.2
37.5°	87.2	248.4	1081.3	1990.5	2798.1	3145.4	3179.8	2861.8	2088.3	1255.2
40°	85.3	278.2	1255.2	2331.8	3470.8	4003.7	4034.1	3633.1	2636.1	1577.1
42.5°	87.5	330.0	1537.5	2962.3	4587.8	5353.2	5411.7	4990.2	3643.1	2233.8
45°	98.9	427.2	2128.9	4017.0	6180.1	7113.1	7093.6	6486.5	4814.9	3233.5
47.5°	136.5	665.4	3005.6	5043.5	7197.7	8028.6	8045.4	7303.3	5498.7	4002.1
50°	210.0	1018.1	3742.3	5586.2	7635.2	8468.8	8453.1	7595.6	5758.5	4380.6
52.5°	273.1	1273.3	4111.8	5776.7	7691.3	8686.4	8685.3	7672.6	5798.9	4413.1
55°	288.8	1292.6	4114.8	5786.9	7817.0	8971.1	9006.9	7862.0	5851.2	4271.1
57.5°	282.6	1144.4	3943.0	5846.5	8040.8	9191.4	9193.3	8045.4	5983.9	4184.2
58°	277.2	1121.1	3908.4	5880.4	8079.2	9200.6	9196.0	8053.8	6092.0	4180.9
60°	246.8	973.4	3773.2	5966.8	8022.1	9011.5	8968.4	7870.4	6076.0	4147.6
62.5°	194.0	759.4	3640.1	5866.9	7409.2	8096.0	8113.9	6967.9	5539.1	3953.3
65°	154.4	566.0	3362.7	5146.2	6101.2	6648.5	6715.1	5666.1	4623.3	3347.5
67.5°	123.0	409.1	2820.9	4097.2	4827.9	5548.8	5597.3	4757.2	3581.9	2564.8
70°	100.0	276.6	1947.1	2996.4	3982.0	4792.7	4795.6	3952.0	2673.5	1680.5
72.5°	88.6	191.5	1130.3	2185.3	3228.9	3905.4	3826.5	3206.9	2054.7	995.4
75°	76.7	127.1	554.3	1335.9	1957.7	1971.0	2001.0	1487.6	1027.1	473.3
77.5°	63.1	90.2	218.4	364.9	587.1	751.5	779.4	590.6	341.6	116.5
80°	43.3	42.8	58.8	111.9	168.0	210.5	196.4	152.0	89.4	44.7
82.5°	18.7	20.3	26.6	32.0	26.0	25.2	24.1	15.4	11.9	9.2
85°	6.0	5.4	5.7	5.7	4.6	3.5	3.5	1.6	0.0	0.0
87.5°	3.0	2.4	2.4	2.2	1.4	0.5	0.3	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°
15.7	0°	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7
14.6	2.5°	14.4	14.4	13.8	13.3	13.0	12.5	12.2	11.9	11.6	11.4
15.7	5°	15.2	14.9	14.1	13.3	12.5	11.6	11.1	10.6	10.0	9.8
17.3	7.5°	16.5	16.0	14.4	13.0	11.9	10.8	10.3	9.5	8.9	8.1
19.2	10°	18.2	17.1	14.9	13.3	11.6	10.3	9.5	8.7	7.9	6.8
21.9	12.5°	20.3	18.4	15.7	13.0	11.1	9.5	8.7	7.6	6.8	6.0
25.5	15°	22.2	19.8	16.0	13.0	10.6	8.7	7.6	6.5	5.7	4.6
32.0	17.5°	24.9	20.9	15.7	12.2	9.8	7.6	6.5	5.7	4.3	2.7
47.4	20°	29.5	21.7	15.2	11.4	8.4	6.2	4.9	3.8	1.9	0.5
71.3	22.5°	36.8	23.8	14.6	10.3	7.3	4.9	3.3	1.4	0.0	0.0
108.4	25°	50.9	27.6	14.6	9.8	6.5	3.5	1.1	0.0	0.0	0.0
153.9	27.5°	67.7	32.8	14.6	8.4	5.1	1.9	0.0	0.0	0.0	0.0
209.7	30°	84.8	38.5	14.6	7.3	4.1	0.3	0.0	0.0	0.0	0.0
258.2	32.5°	101.1	43.3	14.9	6.2	2.7	0.0	0.0	0.0	0.0	0.0
325.4	35°	117.6	44.2	14.6	5.4	1.6	0.0	0.0	0.0	0.0	0.0
407.7	37.5°	138.7	42.5	13.8	4.9	0.8	0.0	0.0	0.0	0.0	0.0
536.4	40°	170.7	43.3	13.0	4.6	0.3	0.0	0.0	0.0	0.0	0.0
765.9	42.5°	229.7	46.9	11.9	4.6	0.0	0.0	0.0	0.0	0.0	0.0
1220.0	45°	397.2	62.9	10.8	4.9	0.0	0.0	0.0	0.0	0.0	0.0
1831.4	47.5°	657.0	113.0	10.6	4.9	0.0	0.0	0.0	0.0	0.0	0.0
2206.1	50°	838.5	142.2	11.1	5.1	0.0	0.0	0.0	0.0	0.0	0.0
2253.0	52.5°	837.2	158.5	11.6	5.4	1.1	0.0	0.0	0.0	0.0	0.0
2076.6	55°	744.2	161.5	12.5	6.0	3.5	0.0	0.0	0.0	0.0	0.0
1784.6	57.5°	622.0	147.4	14.4	7.3	6.5	0.0	0.0	0.0	0.0	0.0
1738.8	58°	600.4	140.9	14.9	7.6	7.0	0.0	0.0	0.0	0.0	0.0
1508.2	60°	492.0	114.9	19.0	9.5	9.5	0.0	0.0	0.0	0.0	0.0
1236.5	62.5°	339.7	100.2	21.7	12.2	9.8	0.0	0.0	0.0	0.0	0.0
911.7	65°	240.3	90.5	23.6	13.0	7.9	0.0	0.0	0.0	0.0	0.0
647.8	67.5°	179.6	83.4	26.0	13.3	4.1	0.0	0.0	0.0	0.0	0.0
406.4	70°	137.6	78.3	32.0	14.1	1.1	0.0	0.0	0.0	0.0	0.0
242.2	72.5°	112.2	72.3	38.7	14.6	0.0	0.0	0.0	0.0	0.0	0.0
145.2	75°	92.9	65.3	37.4	16.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5	77.5°	61.8	50.7	34.1	16.0	0.0	0.0	0.0	0.0	0.0	0.0
27.6	80°	21.7	20.0	26.6	14.1	0.0	0.0	0.0	0.0	0.0	0.0
5.7	82.5°	3.3	2.7	3.8	4.9	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°
15.7	0°	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7
11.1	2.5°	11.1	11.1	10.8	11.1	11.1	11.6	13.0	14.9	17.1	17.9
9.5	5°	9.2	8.9	8.7	8.7	8.7	9.5	10.6	12.7	15.2	16.3
7.9	7.5°	7.6	7.3	7.0	6.8	6.8	7.3	8.7	11.1	13.5	14.6
6.5	10°	6.2	5.7	5.4	5.1	5.1	5.7	7.0	9.5	12.2	13.3
5.4	12.5°	5.1	4.3	3.8	3.5	3.3	4.1	5.4	7.6	10.6	11.9
4.1	15°	3.5	2.7	1.9	1.6	1.4	2.2	3.5	6.0	8.9	10.6
2.2	17.5°	1.9	0.8	0.3	0.0	0.0	0.5	1.6	4.3	7.3	8.7
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	5.4	6.8
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.3	4.6
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.4
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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	0.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.2
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°
15.7	0°	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7
18.7	2.5°	19.2	19.0	18.4	17.9	17.9	17.9	18.7	19.5	20.3	20.3
16.8	5°	17.9	17.9	17.6	17.1	17.1	17.3	18.4	19.8	20.9	21.1
15.4	7.5°	16.5	17.1	16.5	16.3	16.5	16.8	17.9	19.5	21.1	21.7
14.4	10°	15.7	16.0	16.0	15.7	15.7	16.3	17.3	19.5	21.7	22.5
13.0	12.5°	14.6	15.2	14.9	14.9	14.9	15.4	16.8	19.2	22.2	23.3
11.6	15°	13.5	14.4	14.4	14.1	14.1	14.4	16.3	19.0	23.0	24.9
10.0	17.5°	12.5	13.3	13.5	13.0	13.0	13.5	15.4	19.0	23.6	26.8
8.1	20°	10.3	11.6	12.5	11.6	11.6	12.2	14.1	17.9	23.8	28.7
6.0	22.5°	8.1	9.5	10.6	10.3	10.3	10.6	13.0	17.1	24.1	32.0
3.5	25°	6.0	7.3	8.1	8.7	8.7	9.5	11.9	16.5	25.2	38.7
1.6	27.5°	3.5	5.1	6.2	6.8	7.0	8.1	11.1	16.0	27.1	48.5
0.0	30°	1.6	3.0	4.3	5.4	5.4	7.3	10.3	15.4	29.5	62.6
0.0	32.5°	0.0	1.4	2.2	3.8	4.1	6.0	9.5	14.9	33.1	76.1
0.0	35°	0.0	0.0	1.1	3.0	3.0	4.9	8.7	14.4	38.5	86.4
0.0	37.5°	0.0	0.0	0.0	2.2	2.4	4.3	8.4	14.1	39.6	87.2
0.0	40°	0.0	0.0	0.0	1.6	1.9	4.1	8.4	14.4	35.8	85.3
0.0	42.5°	0.0	0.0	0.0	1.1	1.4	4.1	8.4	14.9	32.2	87.5
0.0	45°	0.0	0.0	0.0	0.8	1.1	4.3	8.1	14.6	30.3	98.9
0.0	47.5°	0.0	0.0	0.0	1.1	1.6	4.3	7.9	14.4	30.6	136.5
0.0	50°	0.0	0.0	0.0	1.4	1.9	4.3	8.1	13.8	33.6	210.0
0.0	52.5°	0.0	0.0	0.0	1.1	1.6	4.9	8.9	13.5	36.6	273.1
0.0	55°	0.0	0.0	0.0	0.3	0.8	6.2	9.8	13.5	41.2	288.8
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	7.0	11.1	14.4	48.8	282.6
0.0	58°	0.0	0.0	0.0	0.0	0.0	7.0	11.4	14.4	49.3	277.2
0.0	60°	0.0	0.0	0.0	0.0	0.0	7.0	12.5	16.0	53.1	246.8
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	6.0	14.9	20.0	55.3	194.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	4.9	17.6	21.9	56.9	154.4
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	4.6	18.2	22.2	57.7	123.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	4.9	17.9	23.8	60.4	100.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	5.4	16.3	26.3	60.4	88.6
0.0	75°	0.0	0.0	0.0	0.0	0.0	5.7	15.2	29.5	55.0	76.7
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	5.4	14.9	34.4	49.0	63.1
0.0	80°	0.5	0.8	0.8	0.5	0.5	4.6	14.6	34.9	41.7	43.3
0.3	82.5°	1.6	2.2	1.9	1.4	1.4	4.1	13.0	29.3	21.7	18.7
1.6	85°	3.0	3.5	3.5	3.0	3.0	3.8	8.1	10.6	7.3	6.0
3.0	87.5°	4.1	4.6	4.6	4.1	4.1	3.8	3.5	3.3	3.0	3.0
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: SP1-2407-184-14

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-930-U-5WQ

Data in this report applies to families of products including GSS-SB1A-930-U-5WQ

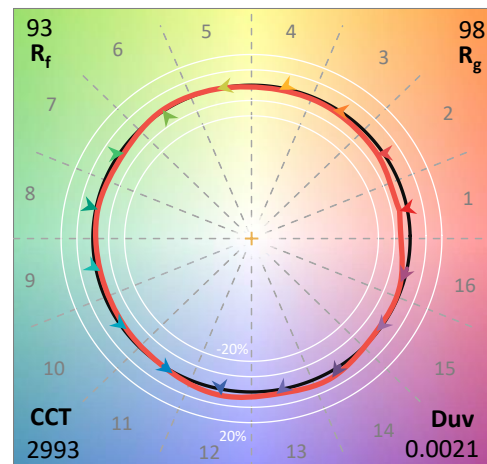
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-14
 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-930-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 2993
 CIE u' : 0.2501
 CIE v' : 0.5245
 Duv: 0.0021
 CIE x: 0.4406
 CIE y: 0.4107
 CIE z: 0.1487
 Peak Wavelength (nm): 621
 Dominant Wavelength (nm): 582
 Purity: 55.53327
 R_f: 92.6
 R_g: 98.5

CRI (Ra): 92.4
 R1: 92.2
 R2: 95.2
 R3: 97.0
 R4: 93.1
 R5: 91.7
 R6: 94.2
 R7: 93.3
 R8: 82.3
 R9: 58.2
 R10: 87.7
 R11: 93.5
 R12: 81.7
 R13: 92.9
 R14: 97.6
 R15: 88.1



Test Conditions

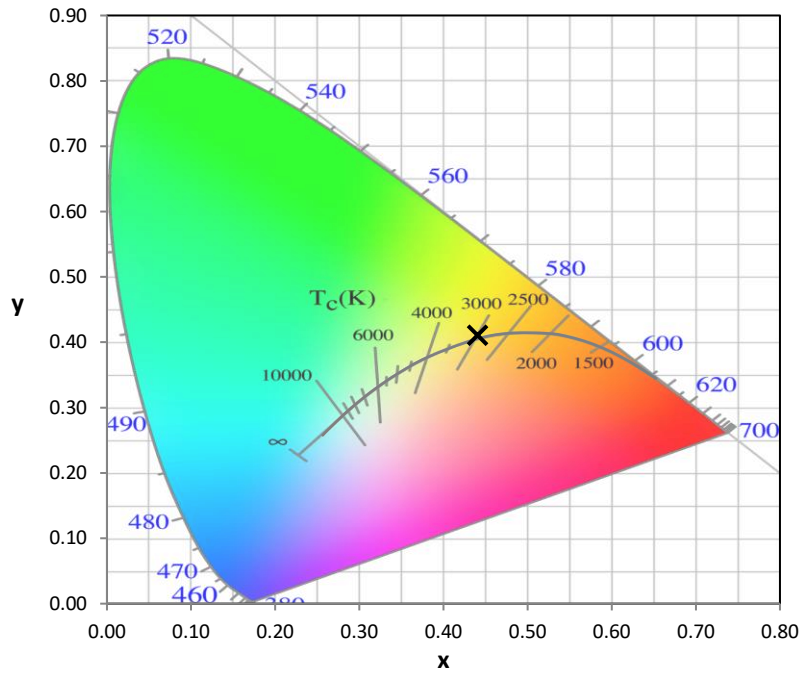
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-14

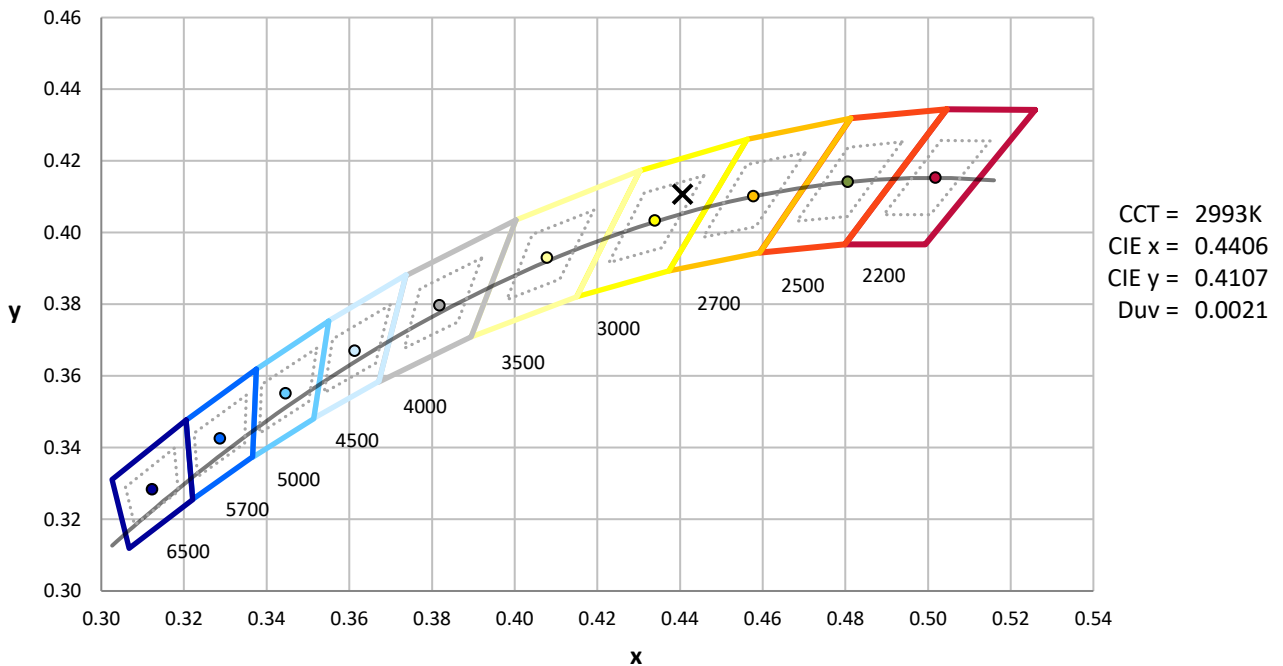
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-14

CIE 1931 Chromaticity Diagram



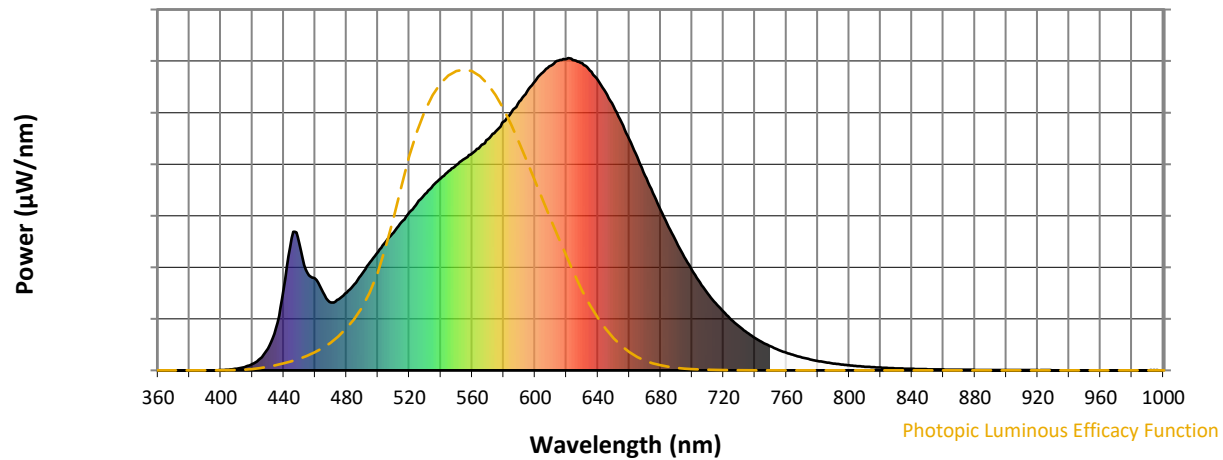
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-14

Photopic Flux vs. Wavelength

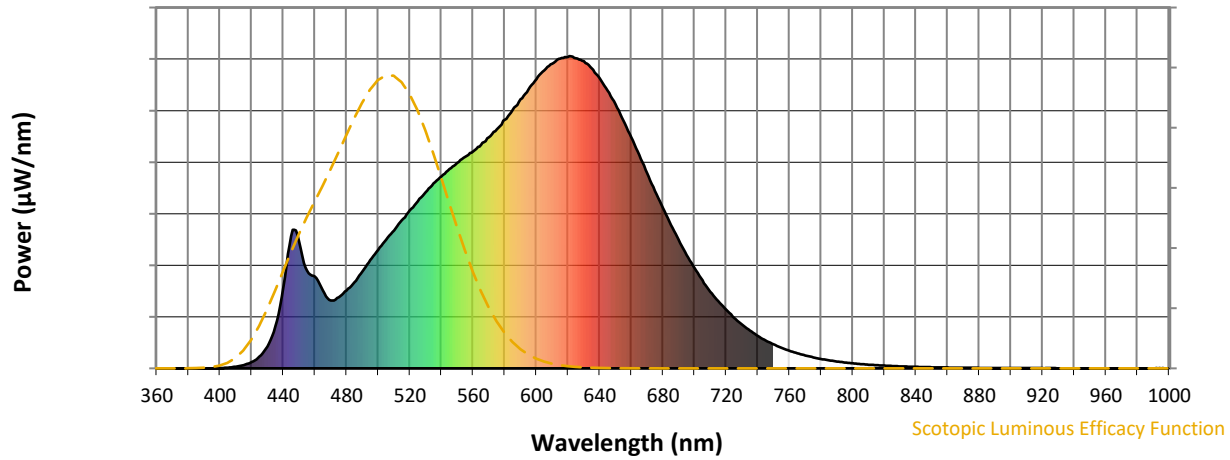


Photopic Lumens: NR

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	310	NR	620	998	NR	750	77	NR	880	2	NR
365	0	NR	495	347	NR	625	993	NR	755	66	NR	885	1	NR
370	0	NR	500	379	NR	630	983	NR	760	56	NR	890	1	NR
375	0	NR	505	412	NR	635	960	NR	765	48	NR	895	1	NR
380	0	NR	510	442	NR	640	930	NR	770	41	NR	900	1	NR
385	0	NR	515	475	NR	645	889	NR	775	35	NR	905	1	NR
390	0	NR	520	506	NR	650	846	NR	780	30	NR	910	1	NR
395	0	NR	525	535	NR	655	794	NR	785	26	NR	915	1	NR
400	1	NR	530	565	NR	660	740	NR	790	22	NR	920	1	NR
405	2	NR	535	592	NR	665	684	NR	795	19	NR	925	1	NR
410	6	NR	540	615	NR	670	624	NR	800	16	NR	930	0	NR
415	10	NR	545	638	NR	675	567	NR	805	14	NR	935	0	NR
420	20	NR	550	658	NR	680	513	NR	810	12	NR	940	0	NR
425	38	NR	555	678	NR	685	459	NR	815	10	NR	945	0	NR
430	70	NR	560	695	NR	690	412	NR	820	9	NR	950	0	NR
435	136	NR	565	716	NR	695	363	NR	825	8	NR	955	0	NR
440	262	NR	570	740	NR	700	320	NR	830	7	NR	960	0	NR
445	424	NR	575	765	NR	705	281	NR	835	6	NR	965	0	NR
450	406	NR	580	796	NR	710	245	NR	840	5	NR	970	0	NR
455	313	NR	585	827	NR	715	215	NR	845	4	NR	975	0	NR
460	294	NR	590	861	NR	720	188	NR	850	4	NR	980	0	NR
465	250	NR	595	894	NR	725	162	NR	855	3	NR	985	0	NR
470	217	NR	600	927	NR	730	140	NR	860	3	NR	990	0	NR
475	228	NR	605	954	NR	735	121	NR	865	2	NR	995	0	NR
480	249	NR	610	976	NR	740	104	NR	870	2	NR	1000	0	NR
485	276	NR	615	992	NR	745	89	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-14

Scotopic Flux vs. Wavelength



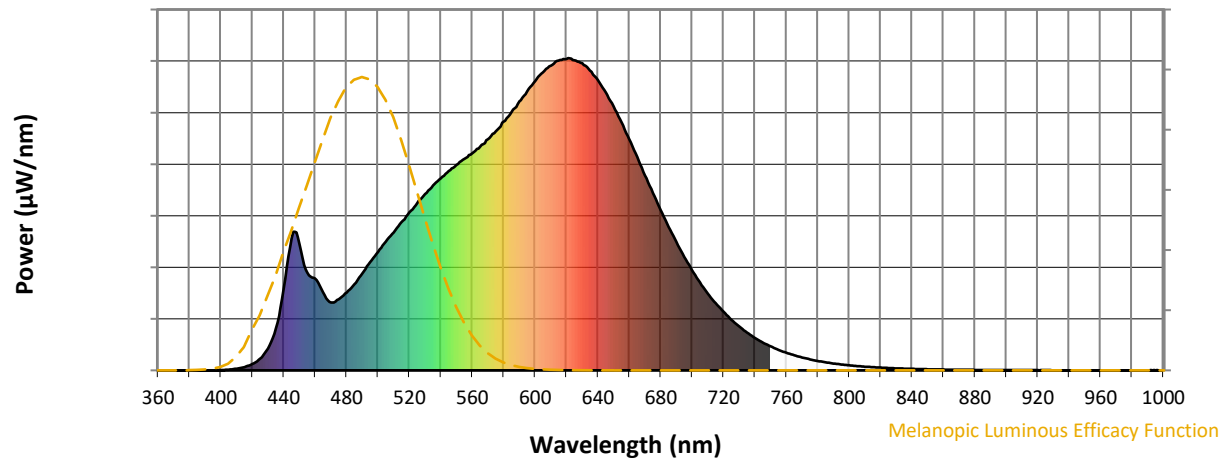
Scotopic Lumens: NR

S/P: 1.39

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	310	NR	620	998	NR	750	77	NR	880	2	NR
365	0	NR	495	347	NR	625	993	NR	755	66	NR	885	1	NR
370	0	NR	500	379	NR	630	983	NR	760	56	NR	890	1	NR
375	0	NR	505	412	NR	635	960	NR	765	48	NR	895	1	NR
380	0	NR	510	442	NR	640	930	NR	770	41	NR	900	1	NR
385	0	NR	515	475	NR	645	889	NR	775	35	NR	905	1	NR
390	0	NR	520	506	NR	650	846	NR	780	30	NR	910	1	NR
395	0	NR	525	535	NR	655	794	NR	785	26	NR	915	1	NR
400	1	NR	530	565	NR	660	740	NR	790	22	NR	920	1	NR
405	2	NR	535	592	NR	665	684	NR	795	19	NR	925	1	NR
410	6	NR	540	615	NR	670	624	NR	800	16	NR	930	0	NR
415	10	NR	545	638	NR	675	567	NR	805	14	NR	935	0	NR
420	20	NR	550	658	NR	680	513	NR	810	12	NR	940	0	NR
425	38	NR	555	678	NR	685	459	NR	815	10	NR	945	0	NR
430	70	NR	560	695	NR	690	412	NR	820	9	NR	950	0	NR
435	136	NR	565	716	NR	695	363	NR	825	8	NR	955	0	NR
440	262	NR	570	740	NR	700	320	NR	830	7	NR	960	0	NR
445	424	NR	575	765	NR	705	281	NR	835	6	NR	965	0	NR
450	406	NR	580	796	NR	710	245	NR	840	5	NR	970	0	NR
455	313	NR	585	827	NR	715	215	NR	845	4	NR	975	0	NR
460	294	NR	590	861	NR	720	188	NR	850	4	NR	980	0	NR
465	250	NR	595	894	NR	725	162	NR	855	3	NR	985	0	NR
470	217	NR	600	927	NR	730	140	NR	860	3	NR	990	0	NR
475	228	NR	605	954	NR	735	121	NR	865	2	NR	995	0	NR
480	249	NR	610	976	NR	740	104	NR	870	2	NR	1000	0	NR
485	276	NR	615	992	NR	745	89	NR	875	2	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.69

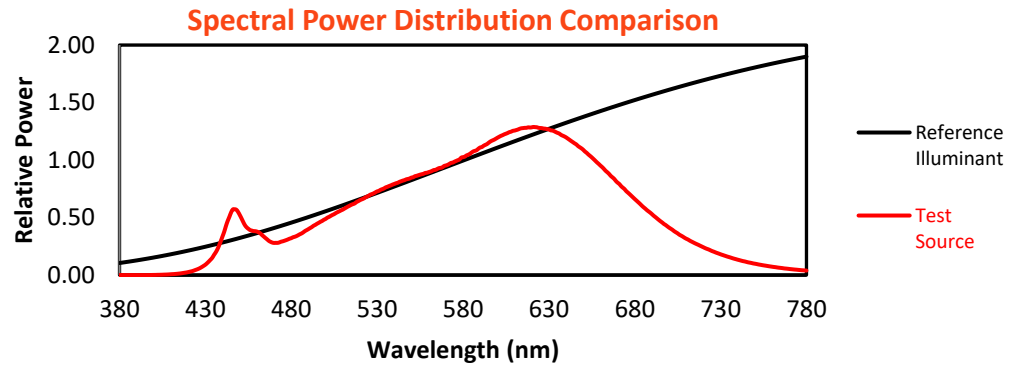
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	310	NR	620	998	NR	750	77	NR	880	2	NR
365	0	NR	495	347	NR	625	993	NR	755	66	NR	885	1	NR
370	0	NR	500	379	NR	630	983	NR	760	56	NR	890	1	NR
375	0	NR	505	412	NR	635	960	NR	765	48	NR	895	1	NR
380	0	NR	510	442	NR	640	930	NR	770	41	NR	900	1	NR
385	0	NR	515	475	NR	645	889	NR	775	35	NR	905	1	NR
390	0	NR	520	506	NR	650	846	NR	780	30	NR	910	1	NR
395	0	NR	525	535	NR	655	794	NR	785	26	NR	915	1	NR
400	1	NR	530	565	NR	660	740	NR	790	22	NR	920	1	NR
405	2	NR	535	592	NR	665	684	NR	795	19	NR	925	1	NR
410	6	NR	540	615	NR	670	624	NR	800	16	NR	930	0	NR
415	10	NR	545	638	NR	675	567	NR	805	14	NR	935	0	NR
420	20	NR	550	658	NR	680	513	NR	810	12	NR	940	0	NR
425	38	NR	555	678	NR	685	459	NR	815	10	NR	945	0	NR
430	70	NR	560	695	NR	690	412	NR	820	9	NR	950	0	NR
435	136	NR	565	716	NR	695	363	NR	825	8	NR	955	0	NR
440	262	NR	570	740	NR	700	320	NR	830	7	NR	960	0	NR
445	424	NR	575	765	NR	705	281	NR	835	6	NR	965	0	NR
450	406	NR	580	796	NR	710	245	NR	840	5	NR	970	0	NR
455	313	NR	585	827	NR	715	215	NR	845	4	NR	975	0	NR
460	294	NR	590	861	NR	720	188	NR	850	4	NR	980	0	NR
465	250	NR	595	894	NR	725	162	NR	855	3	NR	985	0	NR
470	217	NR	600	927	NR	730	140	NR	860	3	NR	990	0	NR
475	228	NR	605	954	NR	735	121	NR	865	2	NR	995	0	NR
480	249	NR	610	976	NR	740	104	NR	870	2	NR	1000	0	NR
485	276	NR	615	992	NR	745	89	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-14

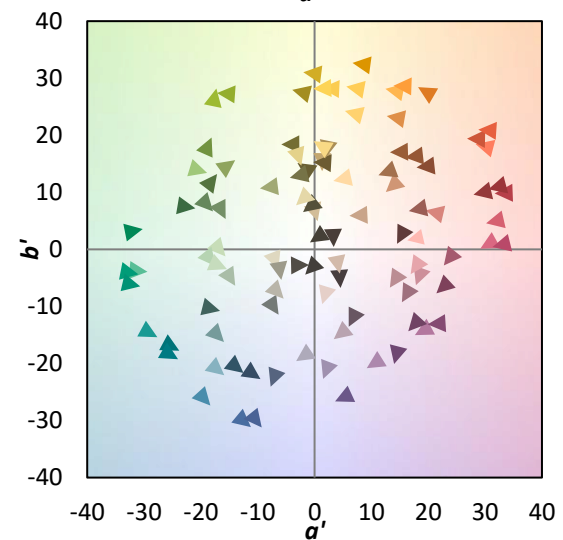
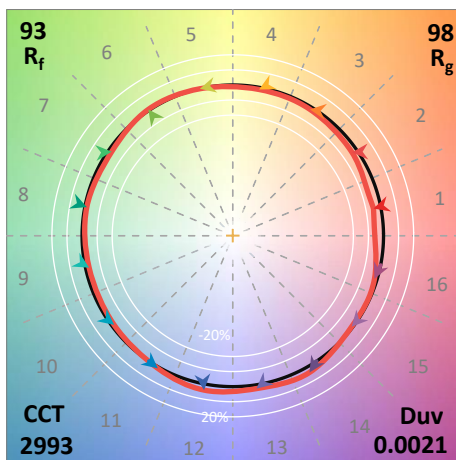
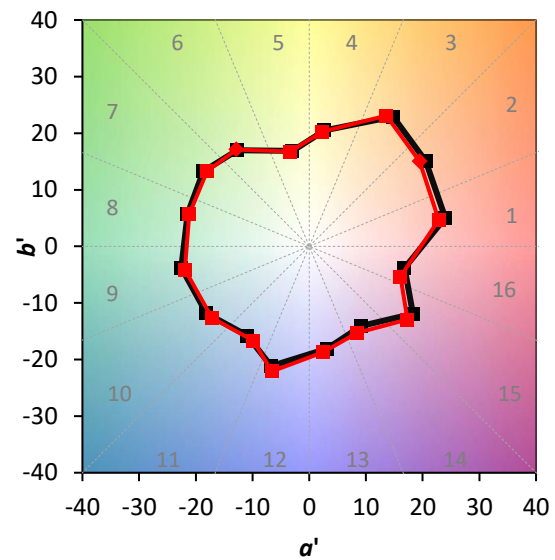
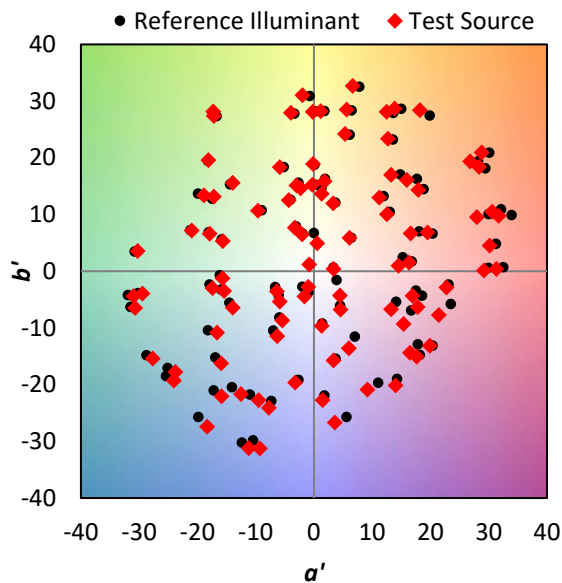
TM-30-18

Summary

$R_f = 92.6$
 $R_g = 98.5$
 $CIE\ R_a = 92.4$
 $R_9 = 58.2$

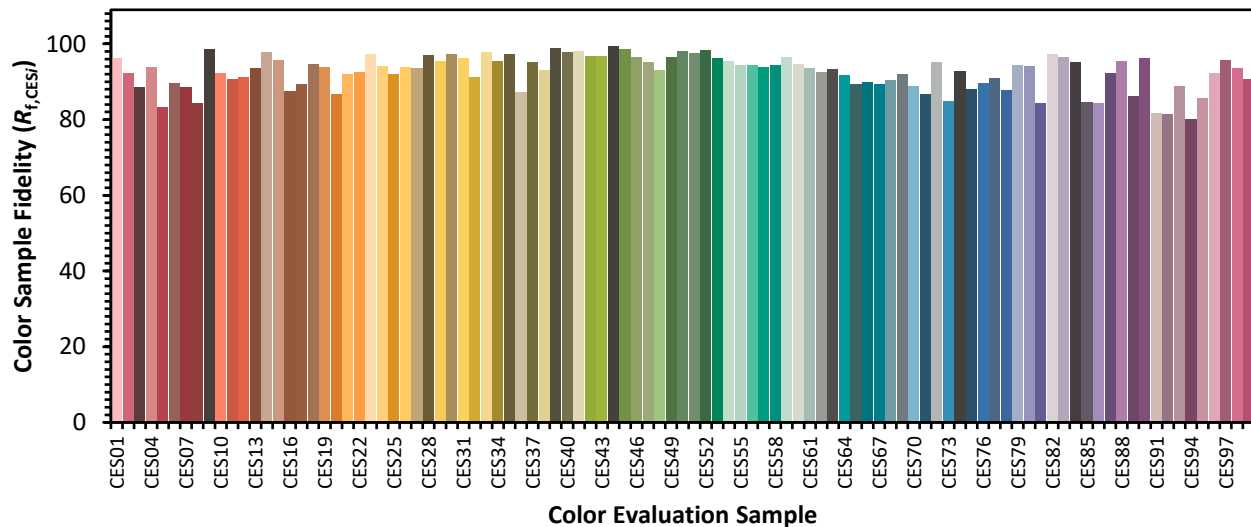


Color Vector Graphics

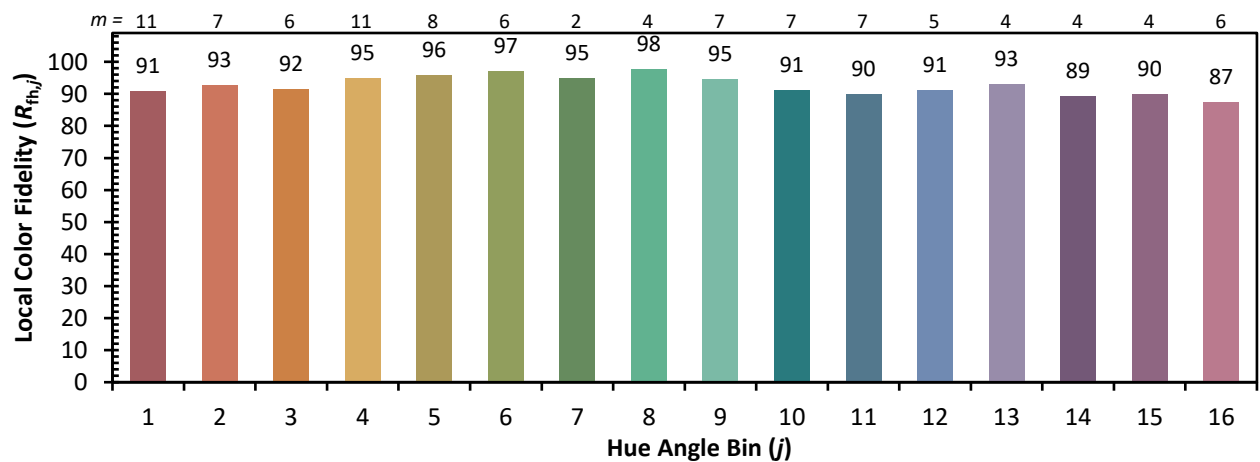
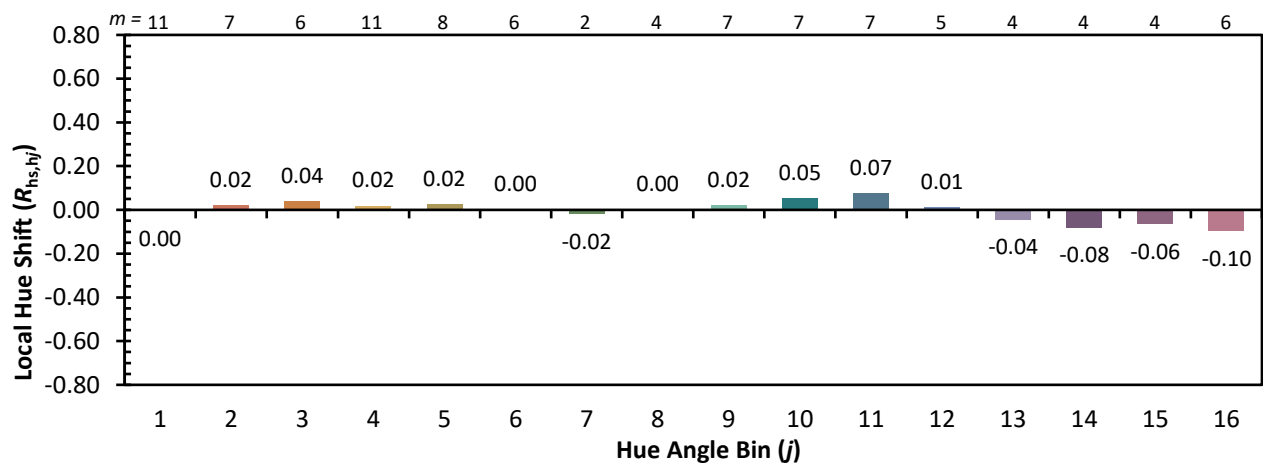
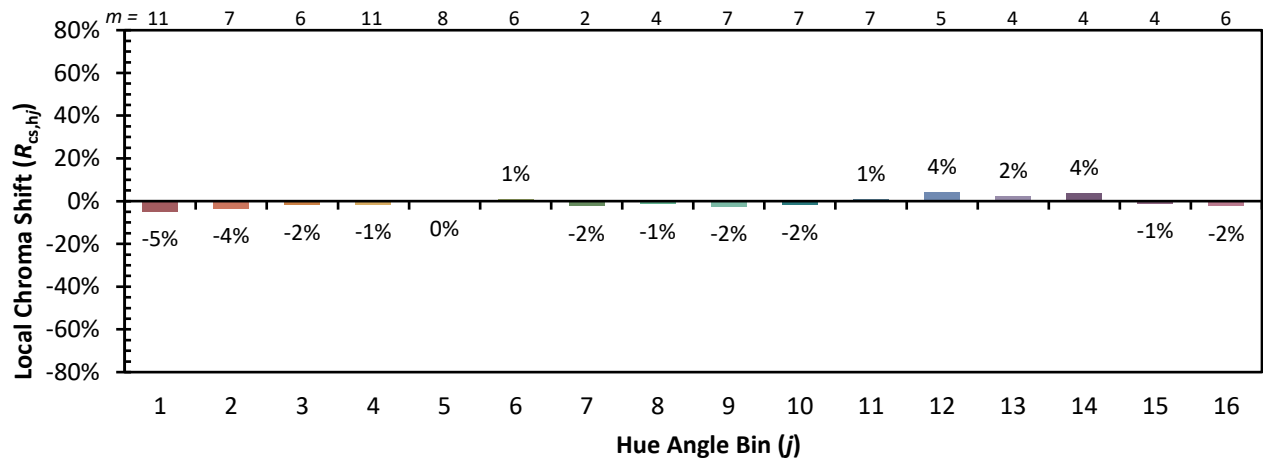


Individual Sample Fidelity Index ($R_{f,i}$)

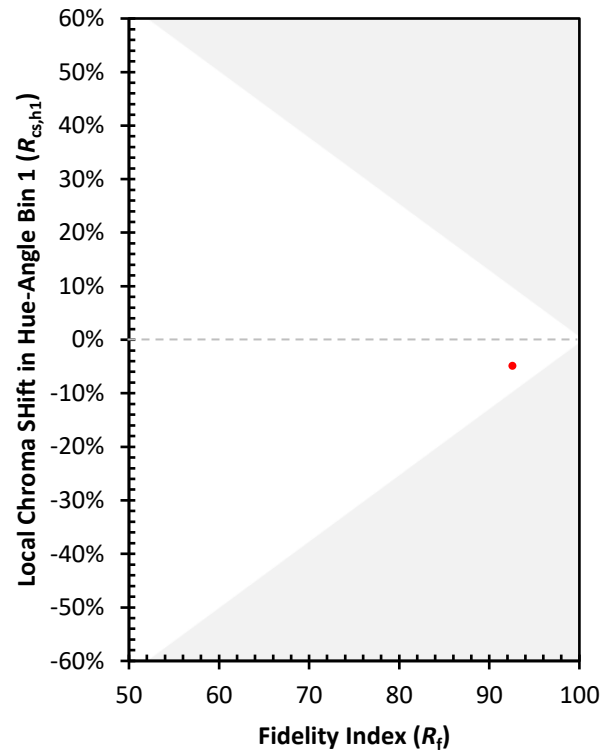
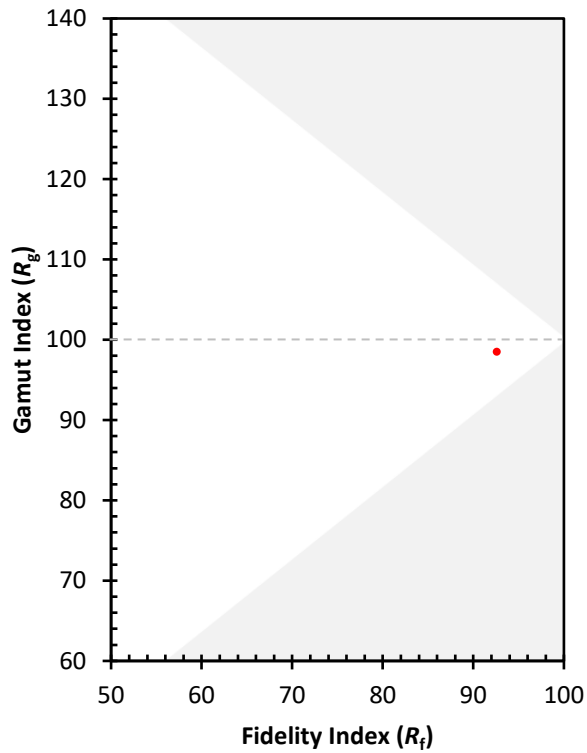
CES01 = 86	CES26 = 94	CES51 = 98	CES76 = 90
CES02 = 63	CES27 = 94	CES52 = 98	CES77 = 91
CES03 = 32	CES28 = 97	CES53 = 96	CES78 = 88
CES04 = 70	CES29 = 95	CES54 = 95	CES79 = 94
CES05 = 51	CES30 = 97	CES55 = 94	CES80 = 94
CES06 = 51	CES31 = 96	CES56 = 94	CES81 = 84
CES07 = 43	CES32 = 91	CES57 = 94	CES82 = 97
CES08 = 42	CES33 = 98	CES58 = 94	CES83 = 97
CES09 = 29	CES34 = 96	CES59 = 97	CES84 = 95
CES10 = 76	CES35 = 97	CES60 = 95	CES85 = 85
CES11 = 59	CES36 = 87	CES61 = 94	CES86 = 84
CES12 = 65	CES37 = 95	CES62 = 92	CES87 = 92
CES13 = 44	CES38 = 93	CES63 = 93	CES88 = 95
CES14 = 74	CES39 = 99	CES64 = 92	CES89 = 86
CES15 = 72	CES40 = 98	CES65 = 89	CES90 = 96
CES16 = 48	CES41 = 98	CES66 = 90	CES91 = 82
CES17 = 50	CES42 = 97	CES67 = 89	CES92 = 81
CES18 = 57	CES43 = 97	CES68 = 90	CES93 = 89
CES19 = 72	CES44 = 99	CES69 = 92	CES94 = 80
CES20 = 67	CES45 = 99	CES70 = 89	CES95 = 86
CES21 = 86	CES46 = 96	CES71 = 87	CES96 = 92
CES22 = 79	CES47 = 95	CES72 = 95	CES97 = 96
CES23 = 92	CES48 = 93	CES73 = 85	CES98 = 94
CES24 = 91	CES49 = 97	CES74 = 93	CES99 = 91
CES25 = 72	CES50 = 98	CES75 = 88	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)