

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: STREETWORKS

Report Number: P1065223

Luminaire Tested: **GLAN-SA5C-730-U-LBC**

Issue Date: 08/07/2025



Test Information

Test Method: LM-79-08
Report Number: P1065223
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5C-730-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 5xLight Square PACKAGE
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24524.9 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 236
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

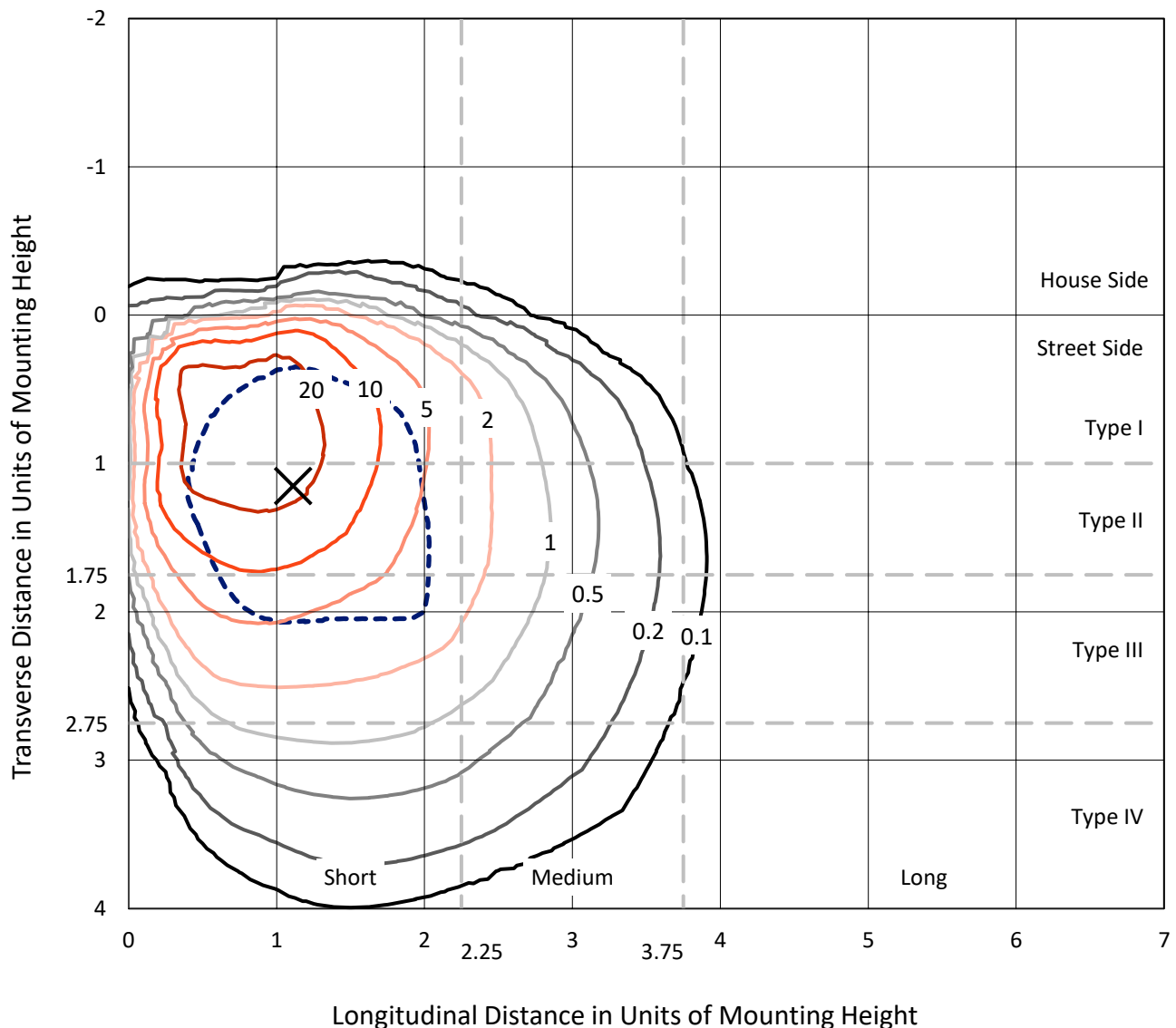
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Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd

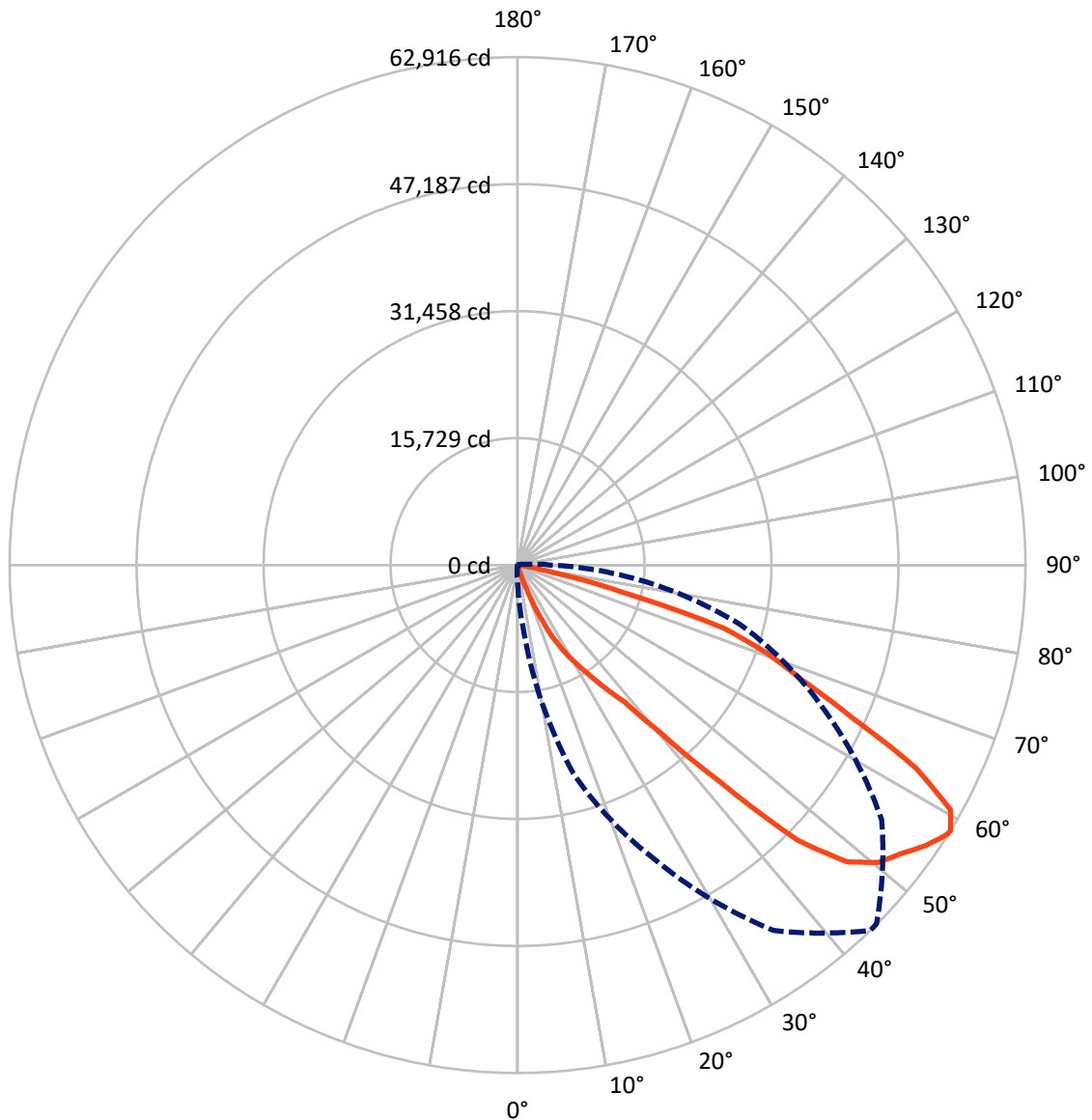


Based on 20 foot mounting height. Maximum calculated value = 42.7 fc

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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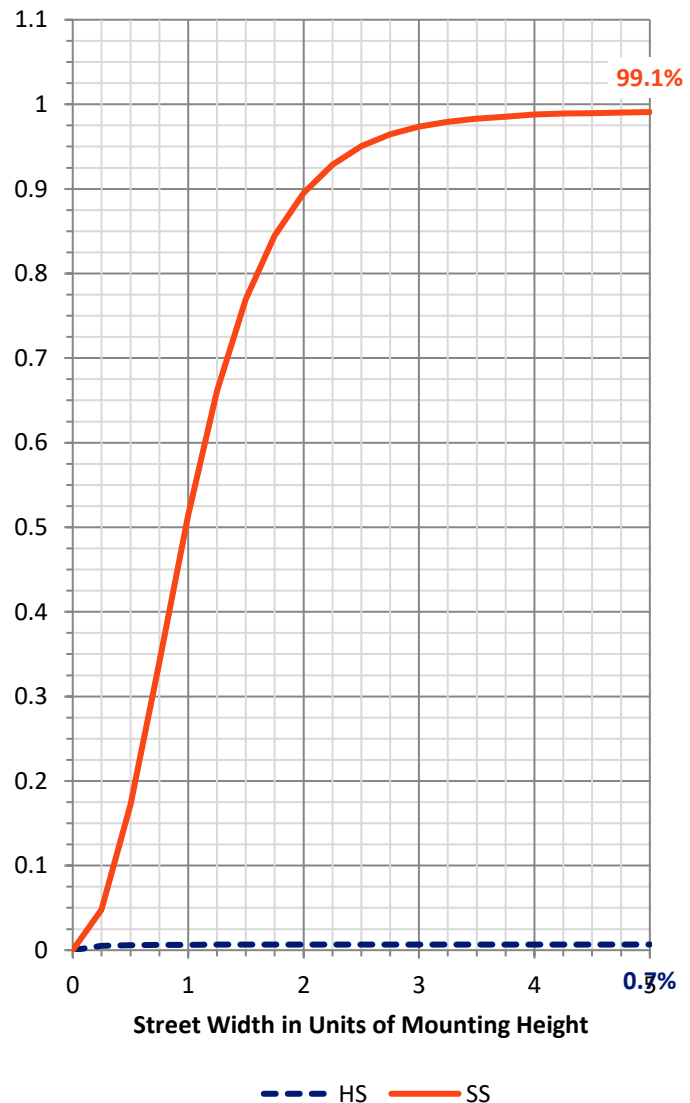
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	167.5	0.0	167.5
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	24357.4	0.0	24357.4
	% Fixture	99.3	0.0	99.3
Total	Lumens	24524.9	0.0	24524.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.6	0.0
10°-20°	53.8	0.2
20°-30°	581.0	2.4
30°-40°	1718.2	7.0
40°-50°	5121.2	20.9
50°-60°	8126.1	33.1
60°-70°	6778.1	27.6
70°-80°	2090.5	8.5
80°-90°	46.4	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°	24524.9	100.0
0°-180°	24524.9	100.0



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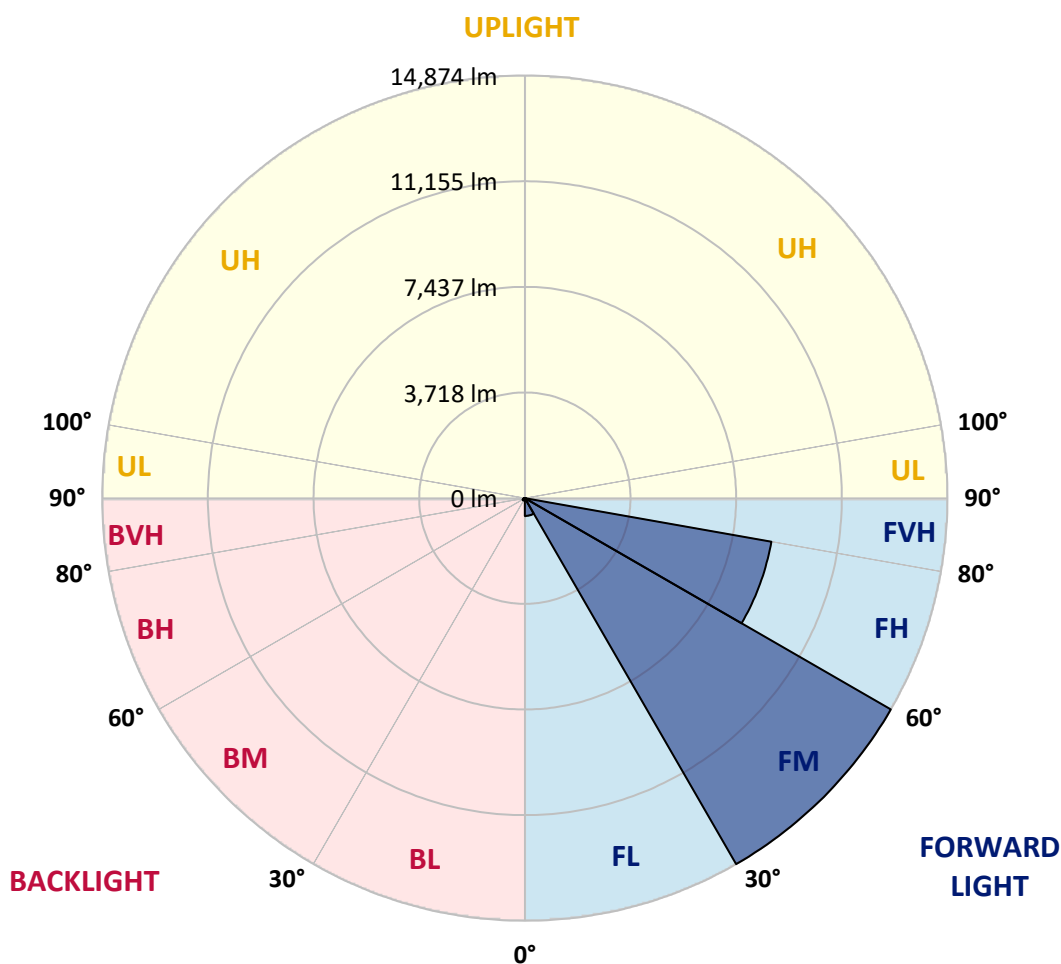
CATALOG NUMBER: GLAN-SA5C-730-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	628.0	2.6			
FM	(30°-60°)	14873.8	60.6			
FH	(60°-80°)	8811.4	35.9			G4/12000
FVH	(80°-90°)	44.2	0.2			G1/100
BL	(0°-30°)	16.4	0.1	B0/110		
BM	(30°-60°)	91.7	0.4	B0/220		
BH	(60°-80°)	57.2	0.2	B0/110		G0/110
BVH	(80°-90°)	2.2	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	107.5	107.5	107.5	107.5	107.5	107.5	107.5	107.5	107.5	107.5
2.5°	138.9	138.9	133.4	126.0	118.6	111.2	109.3	105.6	103.7	101.9
5°	144.5	144.5	142.7	137.1	129.7	124.1	124.1	118.6	114.9	111.2
7.5°	148.2	150.1	153.8	151.9	148.2	142.7	142.7	138.9	133.4	124.1
10°	153.8	159.3	166.7	170.4	172.3	172.3	170.4	168.6	159.3	146.4
12.5°	159.3	170.4	189.0	207.5	218.6	233.4	231.6	227.9	203.8	176.0
15°	170.4	187.1	226.0	279.7	363.1	415.0	435.4	416.8	337.2	237.1
17.5°	183.4	211.2	327.9	585.4	959.7	1137.5	1245.0	1157.9	767.0	450.2
20°	196.4	257.5	609.5	1517.3	2490.0	3071.7	3232.9	2980.9	1913.8	857.8
22.5°	218.6	361.3	1235.7	3136.5	5365.3	6237.9	6402.7	5596.8	3614.5	1693.3
25°	264.9	524.3	2130.5	5111.4	8007.1	9480.0	9411.4	8355.4	5863.6	2704.9
27.5°	331.6	763.3	3221.8	7262.4	10537.8	11836.6	11992.2	10686.1	7816.3	3977.6
30°	428.0	1057.9	4392.6	8985.3	12566.5	13970.8	13996.7	12646.2	9563.4	5094.8
32.5°	520.6	1335.8	5417.1	10650.9	14565.5	16105.0	16219.9	14558.1	10867.6	6258.2
35°	591.0	1517.3	6454.6	12114.5	16581.2	18702.5	18695.0	16722.0	12412.7	7297.6
37.5°	596.6	1698.9	7393.9	13611.4	19134.1	21509.2	21744.5	19569.5	14280.2	8583.3
40°	583.6	1902.7	8583.3	15945.7	23734.2	27378.4	27585.9	24844.0	18026.2	10784.3
42.5°	598.4	2256.5	10513.8	20256.8	31372.7	36606.4	37006.6	34123.9	24912.5	15275.1
45°	676.2	2921.6	14558.1	27469.2	42260.7	48641.2	48507.8	44356.0	32925.2	22111.3
47.5°	933.7	4550.1	20553.3	34488.9	49219.2	54901.3	55016.2	49941.8	37601.3	27367.3
50°	1435.8	6962.2	25590.6	38199.7	52211.3	57911.9	57804.4	51940.8	39378.0	29955.4
52.5°	1867.5	8707.4	28117.6	39502.1	52594.8	59399.5	59392.1	52466.9	39654.0	30177.7
55°	1974.9	8839.0	28138.0	39572.5	53454.4	61346.7	61591.2	53761.9	40011.6	29207.0
57.5°	1932.3	7825.6	26963.4	39980.1	54984.7	62852.9	62865.8	55016.2	40919.4	28612.3
58°	1895.3	7666.2	26726.3	40211.7	55247.7	62915.8	62884.4	55073.6	41658.6	28590.0
60°	1687.8	6656.6	25801.8	40802.7	54856.8	61622.7	61328.1	53819.4	41549.3	28362.2
62.5°	1326.5	5193.0	24892.1	40119.0	50666.2	55362.6	55484.9	47648.2	37877.3	27033.8
65°	1056.0	3870.2	22995.0	35191.0	41721.6	45463.9	45919.7	38746.2	31615.4	22891.3
67.5°	841.1	2797.5	19289.7	28017.6	33014.1	37944.0	38275.7	32530.6	24493.8	17539.0
70°	683.6	1891.6	13315.0	20490.3	27230.2	32773.3	32793.7	27024.5	18281.9	11492.0
72.5°	605.8	1309.8	7729.2	14943.4	22079.8	26705.9	26166.8	21929.8	14050.5	6806.6
75°	524.3	868.9	3790.5	9135.4	13387.2	13478.0	13683.6	10172.9	7023.4	3236.6
77.5°	431.7	616.9	1493.2	2495.5	4014.7	5139.2	5330.1	4038.8	2336.2	796.6
80°	296.4	292.7	402.0	765.1	1148.6	1439.5	1343.2	1039.3	611.4	305.7
82.5°	127.8	138.9	181.6	218.6	177.9	172.3	164.9	105.6	81.5	63.0
85°	40.8	37.1	38.9	38.9	31.5	24.1	24.1	11.1	0.0	0.0
87.5°	20.4	16.7	16.7	14.8	9.3	3.7	1.9	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°
107.5	0°	107.5	107.5	107.5	107.5	107.5	107.5	107.5	107.5	107.5	107.5
100.0	2.5°	98.2	98.2	94.5	90.8	88.9	85.2	83.4	81.5	79.7	77.8
107.5	5°	103.7	101.9	96.3	90.8	85.2	79.7	76.0	72.3	68.5	66.7
118.6	7.5°	113.0	109.3	98.2	88.9	81.5	74.1	70.4	64.8	61.1	55.6
131.5	10°	124.1	116.7	101.9	90.8	79.7	70.4	64.8	59.3	53.7	46.3
150.1	12.5°	138.9	126.0	107.5	88.9	76.0	64.8	59.3	51.9	46.3	40.8
174.1	15°	151.9	135.2	109.3	88.9	72.3	59.3	51.9	44.5	38.9	31.5
218.6	17.5°	170.4	142.7	107.5	83.4	66.7	51.9	44.5	38.9	29.6	18.5
324.2	20°	201.9	148.2	103.7	77.8	57.4	42.6	33.3	25.9	13.0	3.7
487.2	22.5°	252.0	163.0	100.0	70.4	50.0	33.3	22.2	9.3	0.0	0.0
741.1	25°	348.3	189.0	100.0	66.7	44.5	24.1	7.4	0.0	0.0	0.0
1052.3	27.5°	463.2	224.2	100.0	57.4	35.2	13.0	0.0	0.0	0.0	0.0
1433.9	30°	579.9	263.1	100.0	50.0	27.8	1.9	0.0	0.0	0.0	0.0
1765.6	32.5°	691.0	296.4	101.9	42.6	18.5	0.0	0.0	0.0	0.0	0.0
2225.0	35°	804.0	302.0	100.0	37.1	11.1	0.0	0.0	0.0	0.0	0.0
2788.2	37.5°	948.6	290.9	94.5	33.3	5.6	0.0	0.0	0.0	0.0	0.0
3668.2	40°	1167.2	296.4	88.9	31.5	1.9	0.0	0.0	0.0	0.0	0.0
5237.4	42.5°	1571.0	320.5	81.5	31.5	0.0	0.0	0.0	0.0	0.0	0.0
8342.5	45°	2716.0	429.8	74.1	33.3	0.0	0.0	0.0	0.0	0.0	0.0
12523.9	47.5°	4492.7	772.6	72.3	33.3	0.0	0.0	0.0	0.0	0.0	0.0
15086.1	50°	5733.9	972.6	76.0	35.2	0.0	0.0	0.0	0.0	0.0	0.0
15406.6	52.5°	5724.7	1083.8	79.7	37.1	7.4	0.0	0.0	0.0	0.0	0.0
14200.5	55°	5089.2	1104.2	85.2	40.8	24.1	0.0	0.0	0.0	0.0	0.0
12203.4	57.5°	4253.7	1007.8	98.2	50.0	44.5	0.0	0.0	0.0	0.0	0.0
11890.3	58°	4105.5	963.4	101.9	51.9	48.2	0.0	0.0	0.0	0.0	0.0
10313.7	60°	3364.4	785.5	129.7	64.8	64.8	0.0	0.0	0.0	0.0	0.0
8455.5	62.5°	2323.2	685.5	148.2	83.4	66.7	0.0	0.0	0.0	0.0	0.0
6234.2	65°	1643.3	618.8	161.2	88.9	53.7	0.0	0.0	0.0	0.0	0.0
4429.7	67.5°	1228.3	570.6	177.9	90.8	27.8	0.0	0.0	0.0	0.0	0.0
2779.0	70°	941.1	535.4	218.6	96.3	7.4	0.0	0.0	0.0	0.0	0.0
1656.3	72.5°	767.0	494.7	264.9	100.0	0.0	0.0	0.0	0.0	0.0	0.0
993.0	75°	635.5	446.5	255.7	109.3	0.0	0.0	0.0	0.0	0.0	0.0
529.9	77.5°	422.4	346.4	233.4	109.3	0.0	0.0	0.0	0.0	0.0	0.0
189.0	80°	148.2	137.1	181.6	96.3	0.0	0.0	0.0	0.0	0.0	0.0
38.9	82.5°	22.2	18.5	25.9	33.3	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°
107.5	0°	107.5	107.5	107.5	107.5	107.5	107.5	107.5	107.5	107.5	107.5
76.0	2.5°	76.0	76.0	74.1	76.0	76.0	79.7	88.9	101.9	116.7	122.3
64.8	5°	63.0	61.1	59.3	59.3	59.3	64.8	72.3	87.1	103.7	111.2
53.7	7.5°	51.9	50.0	48.2	46.3	46.3	50.0	59.3	76.0	92.6	100.0
44.5	10°	42.6	38.9	37.1	35.2	35.2	38.9	48.2	64.8	83.4	90.8
37.1	12.5°	35.2	29.6	25.9	24.1	22.2	27.8	37.1	51.9	72.3	81.5
27.8	15°	24.1	18.5	13.0	11.1	9.3	14.8	24.1	40.8	61.1	72.3
14.8	17.5°	13.0	5.6	1.9	0.0	0.0	3.7	11.1	29.6	50.0	59.3
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.8	37.1	46.3
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	22.2	31.5
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3	16.7
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7
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	5.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	14.8
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°
107.5	0°	107.5	107.5	107.5	107.5	107.5	107.5	107.5	107.5	107.5	107.5
127.8	2.5°	131.5	129.7	126.0	122.3	122.3	122.3	127.8	133.4	138.9	138.9
114.9	5°	122.3	122.3	120.4	116.7	116.7	118.6	126.0	135.2	142.7	144.5
105.6	7.5°	113.0	116.7	113.0	111.2	113.0	114.9	122.3	133.4	144.5	148.2
98.2	10°	107.5	109.3	109.3	107.5	107.5	111.2	118.6	133.4	148.2	153.8
88.9	12.5°	100.0	103.7	101.9	101.9	101.9	105.6	114.9	131.5	151.9	159.3
79.7	15°	92.6	98.2	98.2	96.3	96.3	98.2	111.2	129.7	157.5	170.4
68.5	17.5°	85.2	90.8	92.6	88.9	88.9	92.6	105.6	129.7	161.2	183.4
55.6	20°	70.4	79.7	85.2	79.7	79.7	83.4	96.3	122.3	163.0	196.4
40.8	22.5°	55.6	64.8	72.3	70.4	70.4	72.3	88.9	116.7	164.9	218.6
24.1	25°	40.8	50.0	55.6	59.3	59.3	64.8	81.5	113.0	172.3	264.9
11.1	27.5°	24.1	35.2	42.6	46.3	48.2	55.6	76.0	109.3	185.3	331.6
0.0	30°	11.1	20.4	29.6	37.1	37.1	50.0	70.4	105.6	201.9	428.0
0.0	32.5°	0.0	9.3	14.8	25.9	27.8	40.8	64.8	101.9	226.0	520.6
0.0	35°	0.0	0.0	7.4	20.4	20.4	33.3	59.3	98.2	263.1	591.0
0.0	37.5°	0.0	0.0	0.0	14.8	16.7	29.6	57.4	96.3	270.5	596.6
0.0	40°	0.0	0.0	0.0	11.1	13.0	27.8	57.4	98.2	244.5	583.6
0.0	42.5°	0.0	0.0	0.0	7.4	9.3	27.8	57.4	101.9	220.5	598.4
0.0	45°	0.0	0.0	0.0	5.6	7.4	29.6	55.6	100.0	207.5	676.2
0.0	47.5°	0.0	0.0	0.0	7.4	11.1	29.6	53.7	98.2	209.3	933.7
0.0	50°	0.0	0.0	0.0	9.3	13.0	29.6	55.6	94.5	229.7	1435.8
0.0	52.5°	0.0	0.0	0.0	7.4	11.1	33.3	61.1	92.6	250.1	1867.5
0.0	55°	0.0	0.0	0.0	1.9	5.6	42.6	66.7	92.6	281.6	1974.9
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	48.2	76.0	98.2	333.5	1932.3
0.0	58°	0.0	0.0	0.0	0.0	0.0	48.2	77.8	98.2	337.2	1895.3
0.0	60°	0.0	0.0	0.0	0.0	0.0	48.2	85.2	109.3	363.1	1687.8
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	40.8	101.9	137.1	377.9	1326.5
0.0	65°	0.0	0.0	0.0	0.0	0.0	33.3	120.4	150.1	389.1	1056.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	31.5	124.1	151.9	394.6	841.1
0.0	70°	0.0	0.0	0.0	0.0	0.0	33.3	122.3	163.0	413.1	683.6
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	37.1	111.2	179.7	413.1	605.8
0.0	75°	0.0	0.0	0.0	0.0	0.0	38.9	103.7	201.9	376.1	524.3
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	37.1	101.9	235.3	335.3	431.7
0.0	80°	3.7	5.6	5.6	3.7	3.7	31.5	100.0	239.0	285.3	296.4
1.9	82.5°	11.1	14.8	13.0	9.3	9.3	27.8	88.9	200.1	148.2	127.8
11.1	85°	20.4	24.1	24.1	20.4	20.4	25.9	55.6	72.3	50.0	40.8
20.4	87.5°	27.8	31.5	31.5	27.8	27.8	25.9	24.1	22.2	20.4	20.4
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: SP1-2407-184-4

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-730-U-5WQ

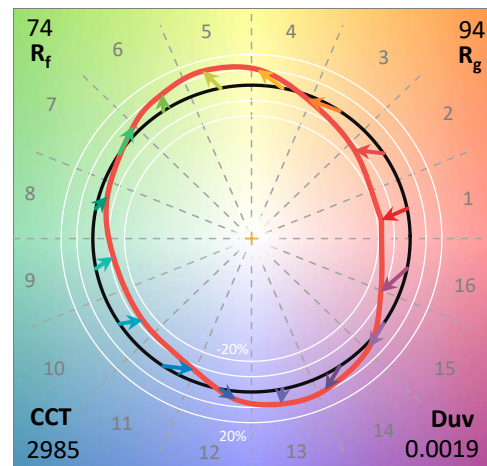
Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-4
 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-730-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K):	2985	CRI (Ra):	70.8		
CIE u':	0.2504	R1:	66.3	R9:	-43.2
CIE v':	0.5243	R2:	80.6	R10:	57.6
Duv:	0.0019	R3:	94.5	R11:	64.8
CIE x:	0.4408	R4:	68.2	R12:	53.5
CIE y:	0.4101	R5:	66.5	R13:	68.7
CIE z:	0.1491	R6:	74.7	R14:	97.0
Peak Wavelength (nm):	595	R7:	76.2	R15:	56.4
Dominant Wavelength (nm):	582	R8:	39.6		
Purity:	55.41818				
Rf:	73.8				
Rg:	94.4				



Test Conditions

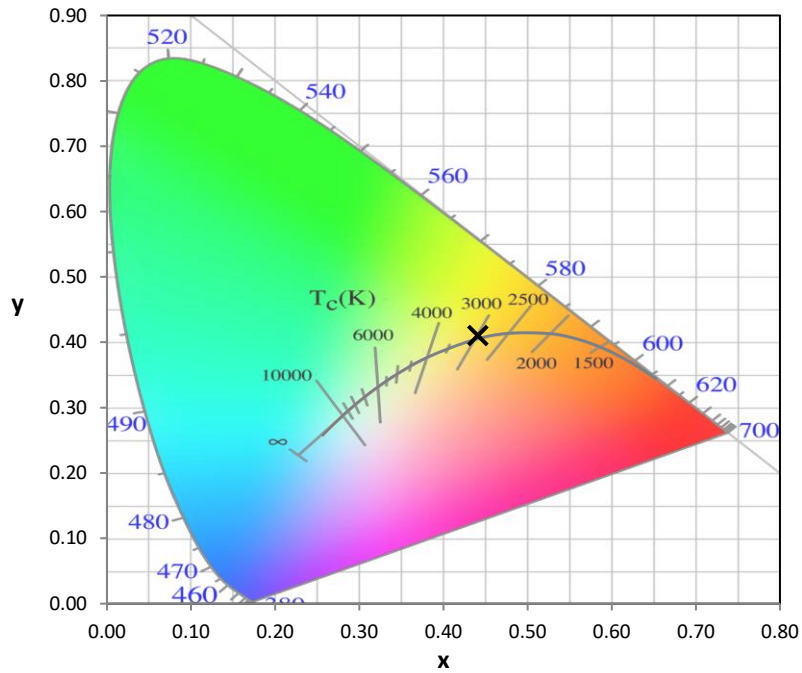
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

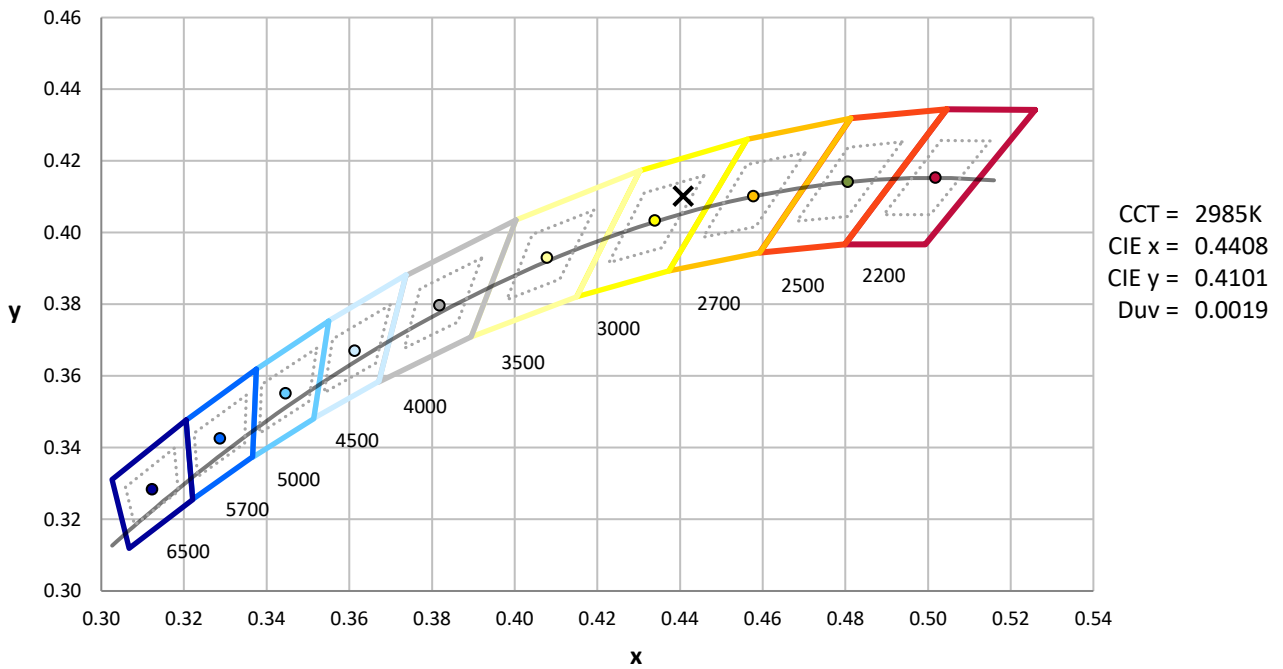
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



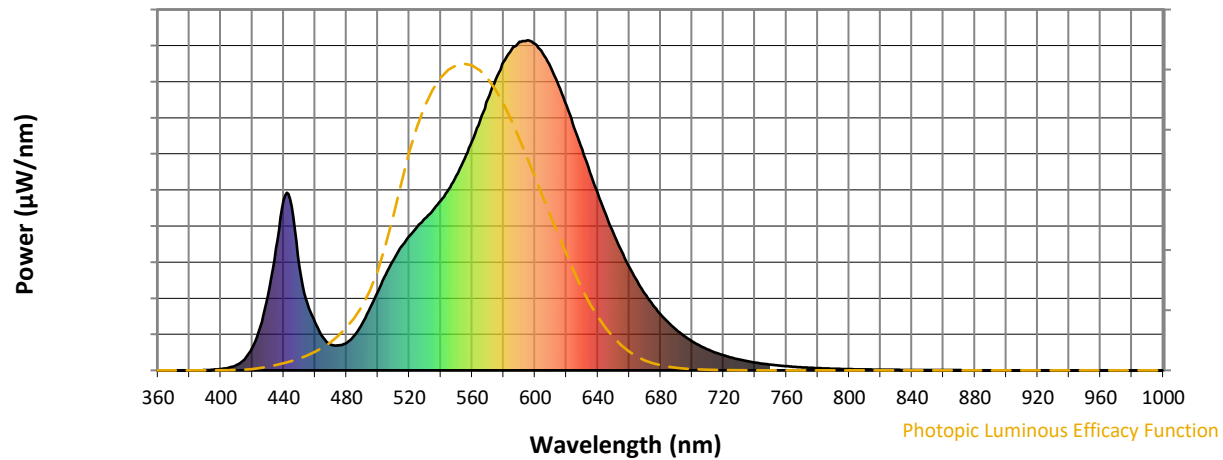
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

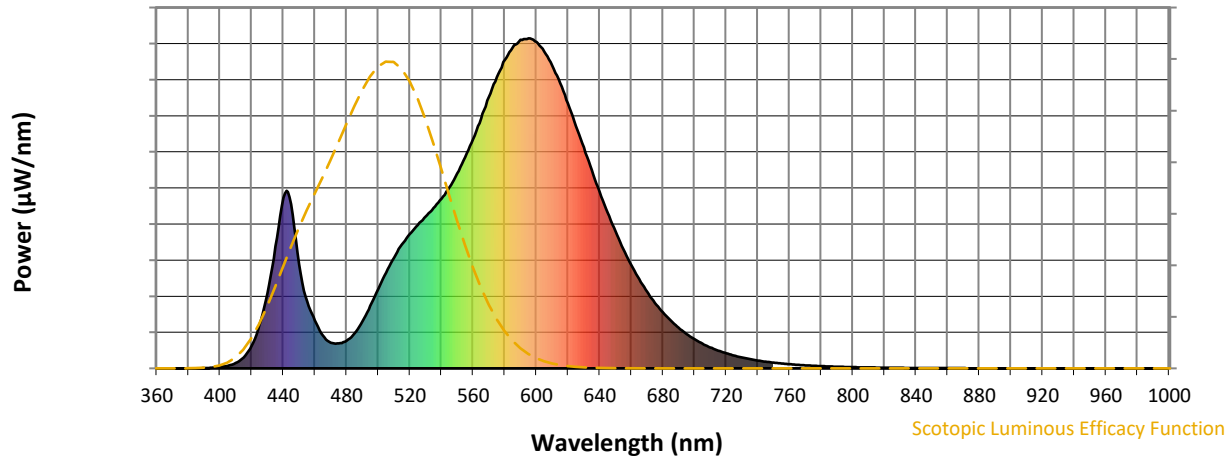


Photopic Lumens: NR

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

Scotopic Flux vs. Wavelength



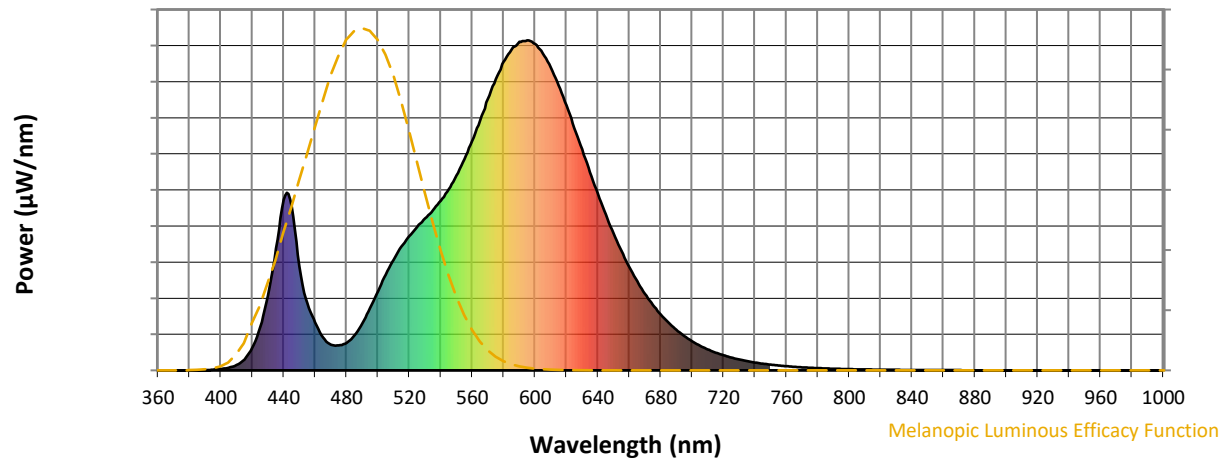
Scotopic Lumens: NR

S/P: 1.19

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.13

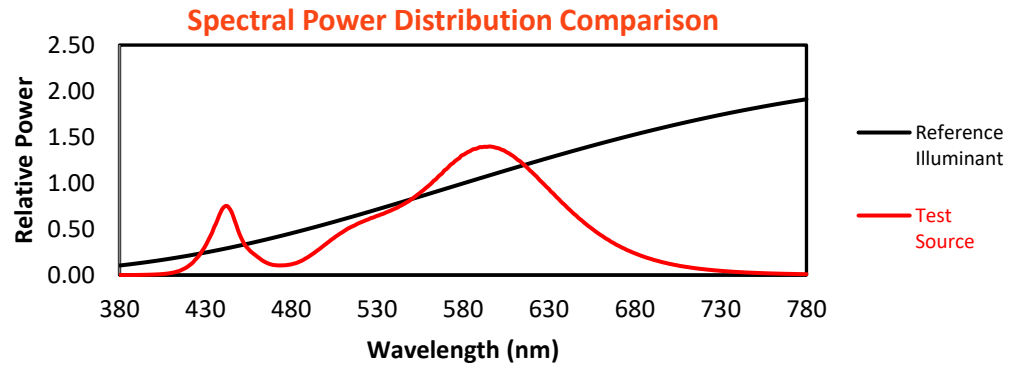
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

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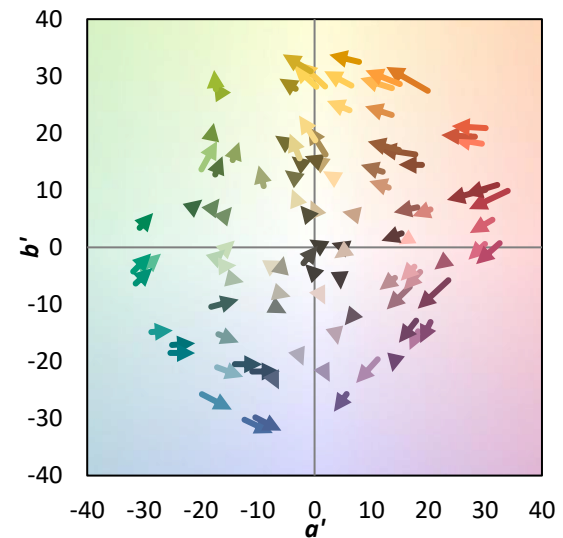
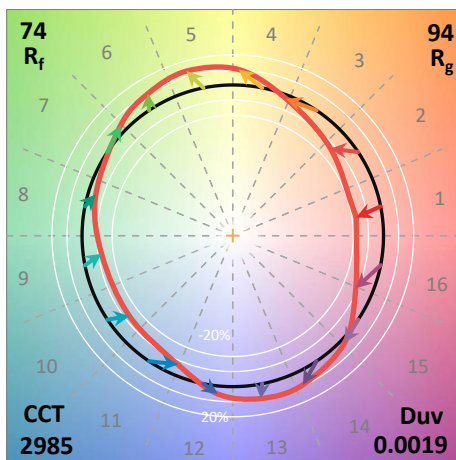
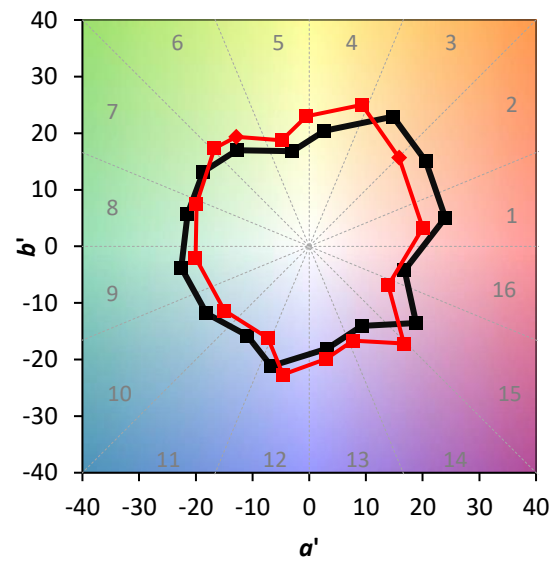
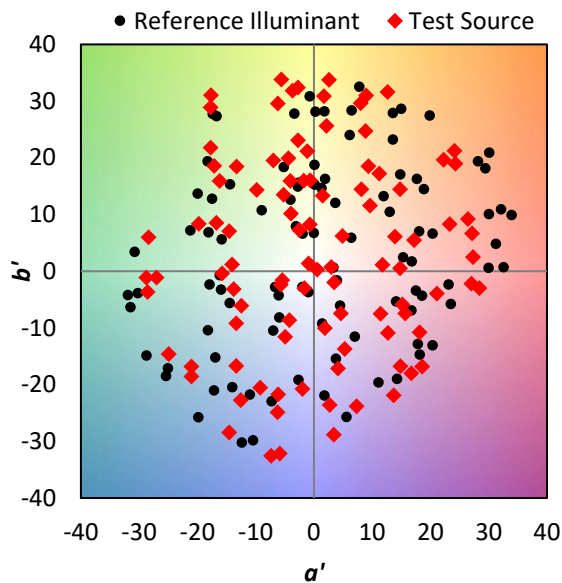
TM-30-18

Summary

$R_f = 73.8$
 $R_g = 94.4$
 $CIE\ R_a = 70.8$
 $R_g = -43.2$

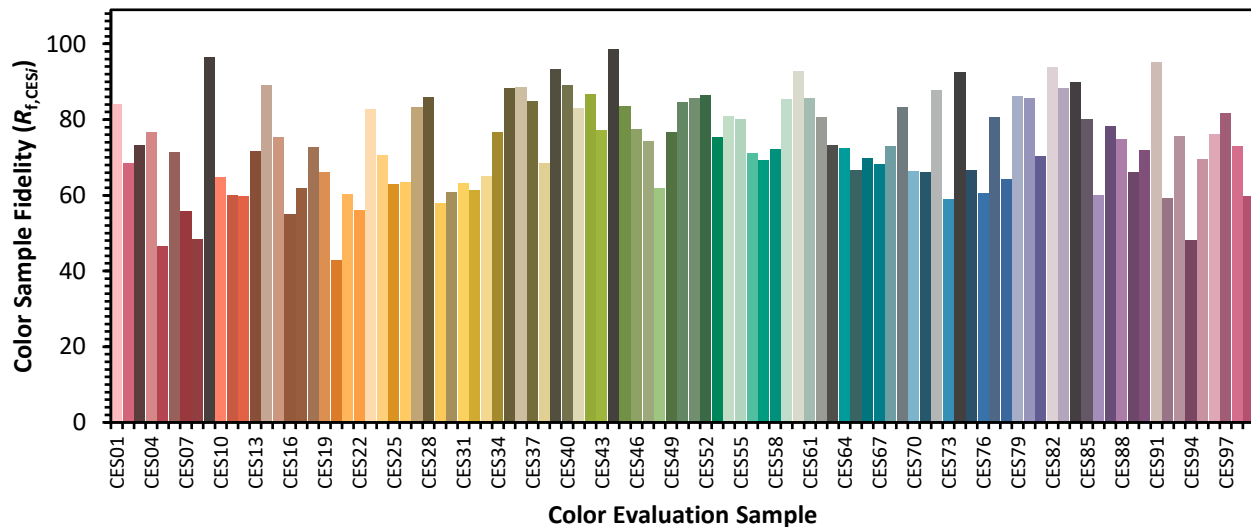


Color Vector Graphics

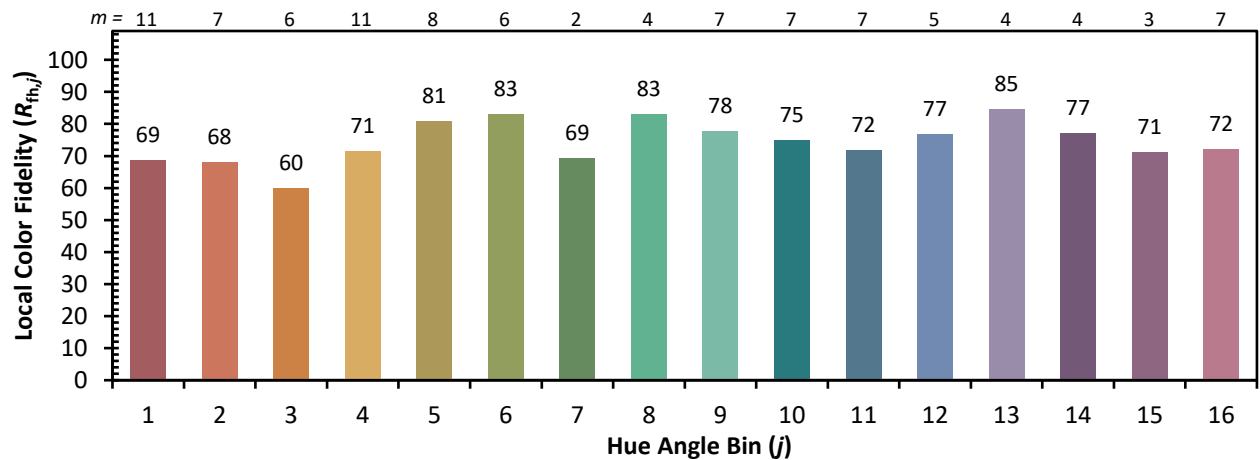
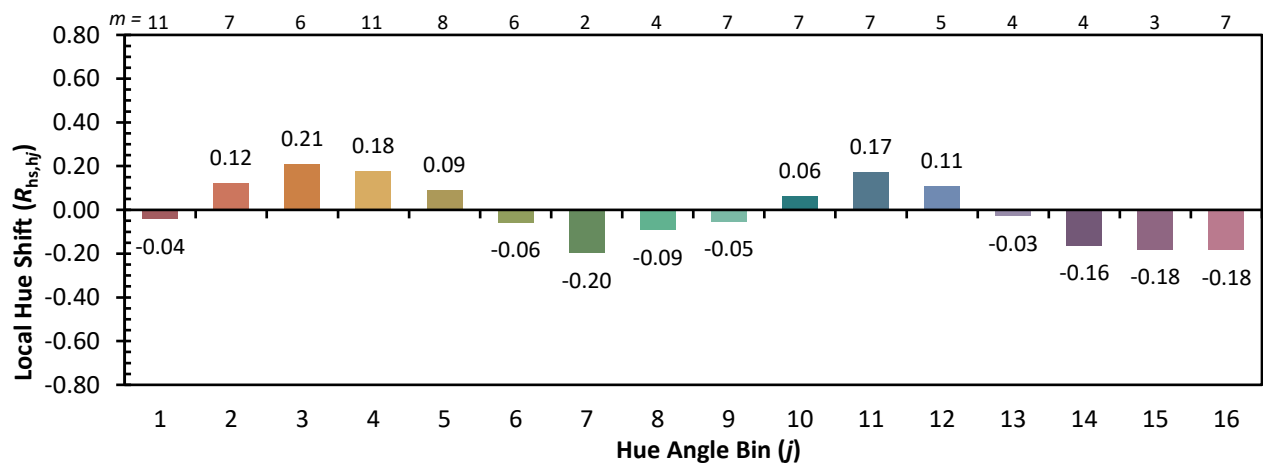
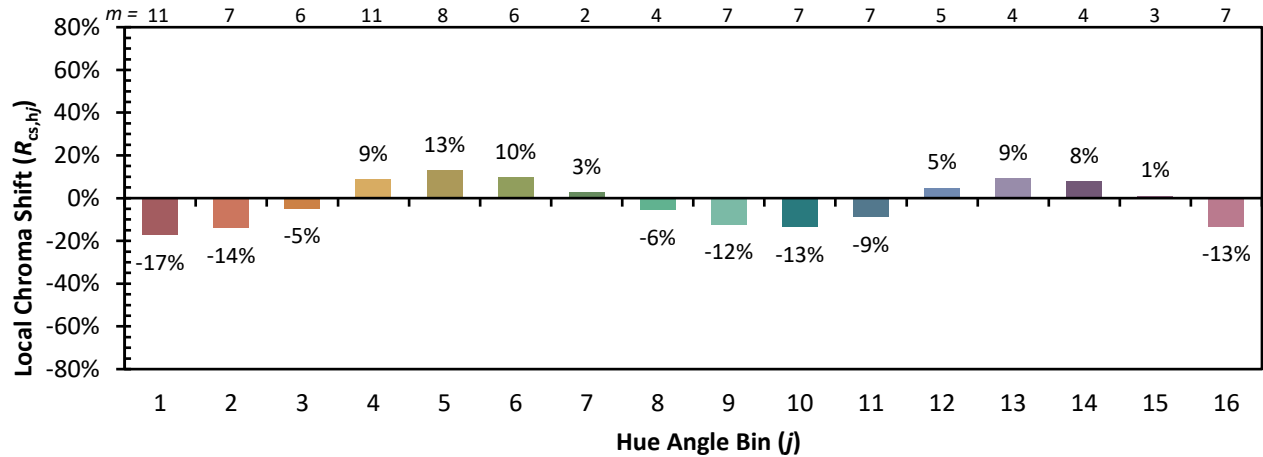


Individual Sample Fidelity Index ($R_{f,i}$)

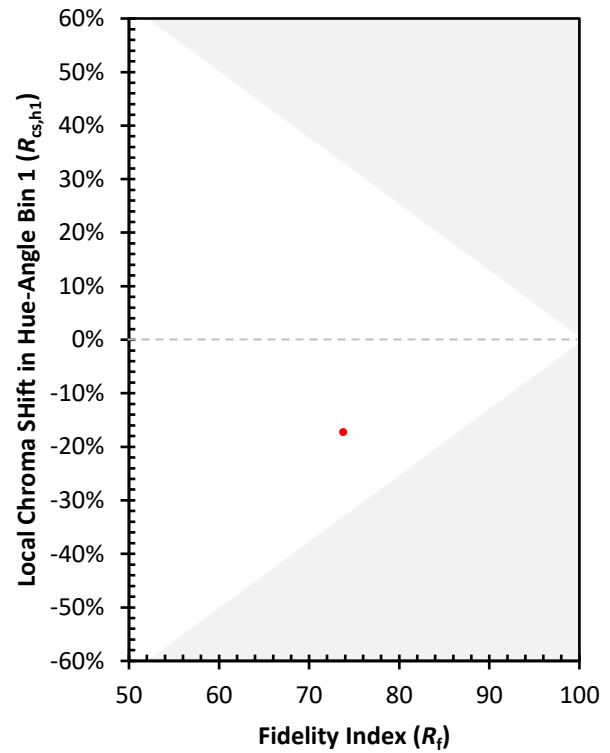
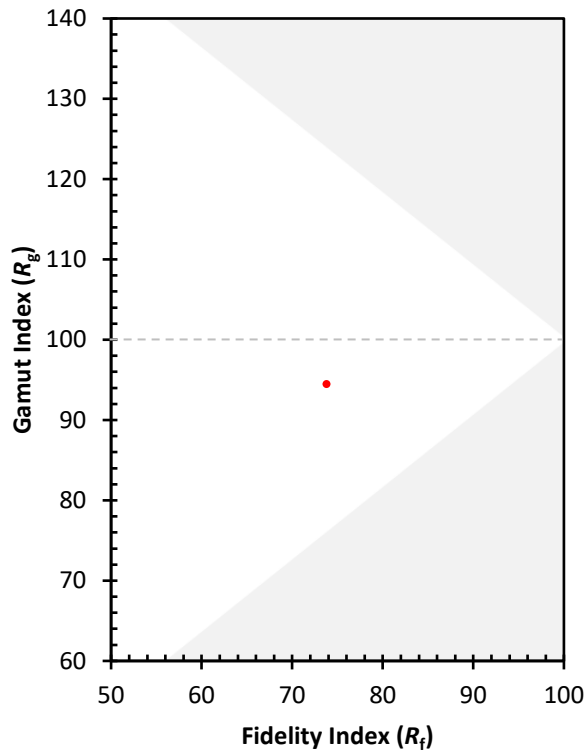
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 94
CES08 = 40	CES33 = 65	CES58 = 72	CES83 = 88
CES09 = 29	CES34 = 77	CES59 = 85	CES84 = 90
CES10 = 76	CES35 = 88	CES60 = 93	CES85 = 80
CES11 = 59	CES36 = 89	CES61 = 86	CES86 = 60
CES12 = 65	CES37 = 85	CES62 = 81	CES87 = 78
CES13 = 43	CES38 = 69	CES63 = 73	CES88 = 75
CES14 = 74	CES39 = 93	CES64 = 72	CES89 = 66
CES15 = 71	CES40 = 89	CES65 = 67	CES90 = 72
CES16 = 47	CES41 = 83	CES66 = 70	CES91 = 95
CES17 = 50	CES42 = 87	CES67 = 68	CES92 = 59
CES18 = 56	CES43 = 77	CES68 = 73	CES93 = 76
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 66	CES45 = 83	CES70 = 66	CES95 = 70
CES21 = 87	CES46 = 77	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 74	CES72 = 88	CES97 = 82
CES23 = 92	CES48 = 62	CES73 = 59	CES98 = 73
CES24 = 91	CES49 = 77	CES74 = 93	CES99 = 60
CES25 = 73	CES50 = 85	CES75 = 67	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)