

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: P1066766

Luminaire Tested: **NVN-SA1B-735-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1066766
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SA1B-735-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 1xLight Square PACKAGE
70CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (14) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3718.4 lumens
Efficiency: N/A
Efficacy: 98.1 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): 37.9
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



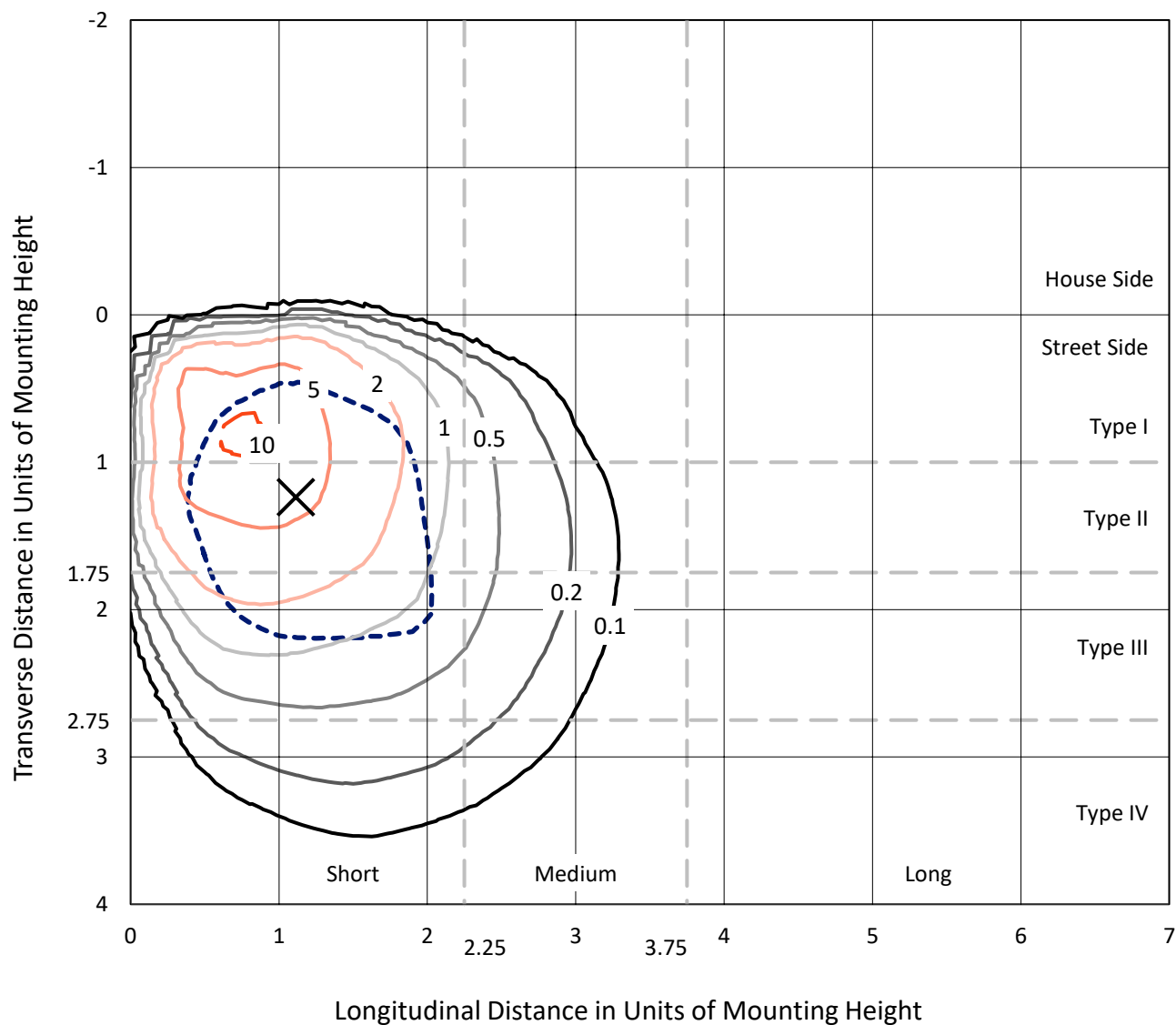
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

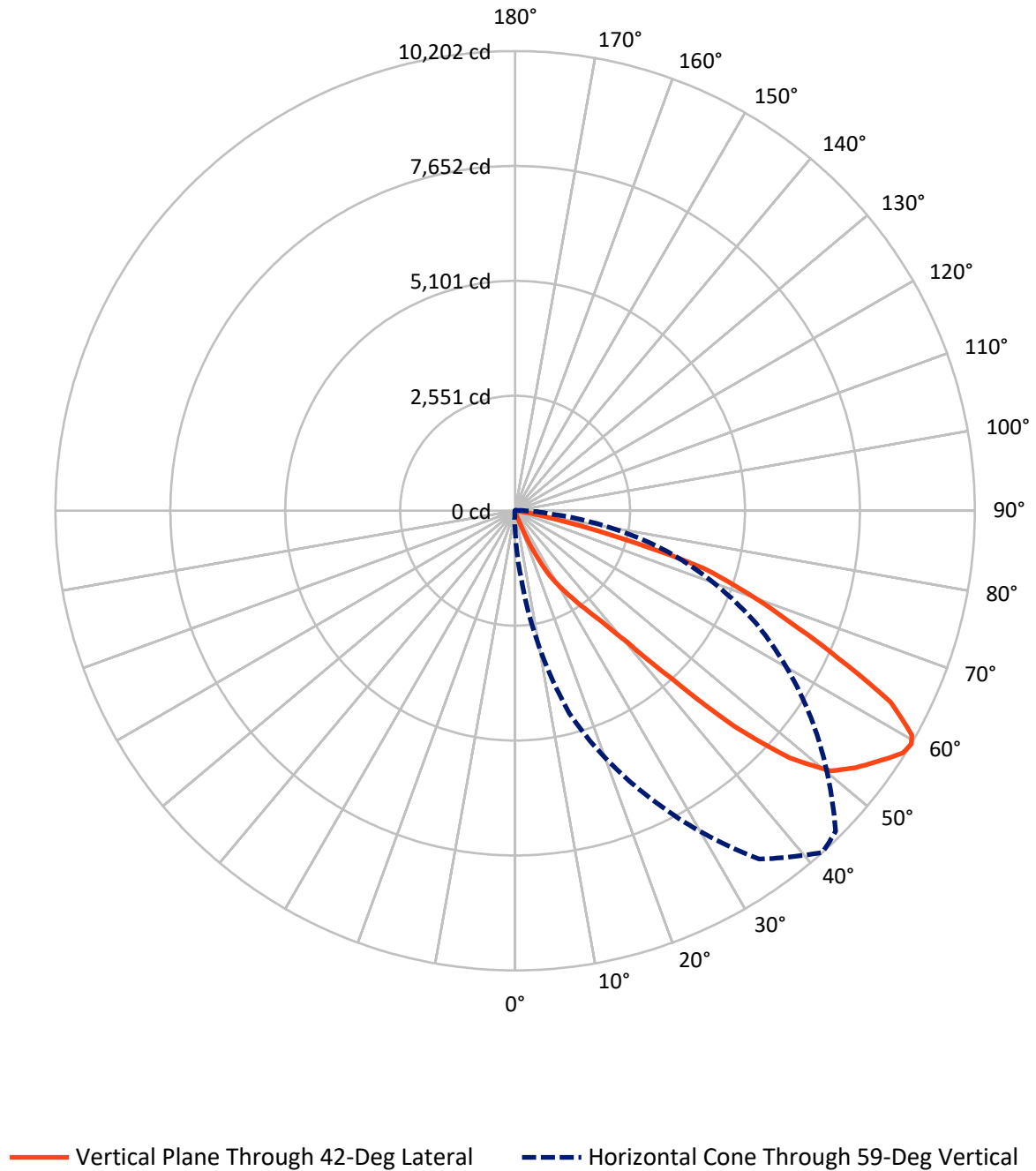


Based on 15 foot mounting height. Maximum calculated value = 11 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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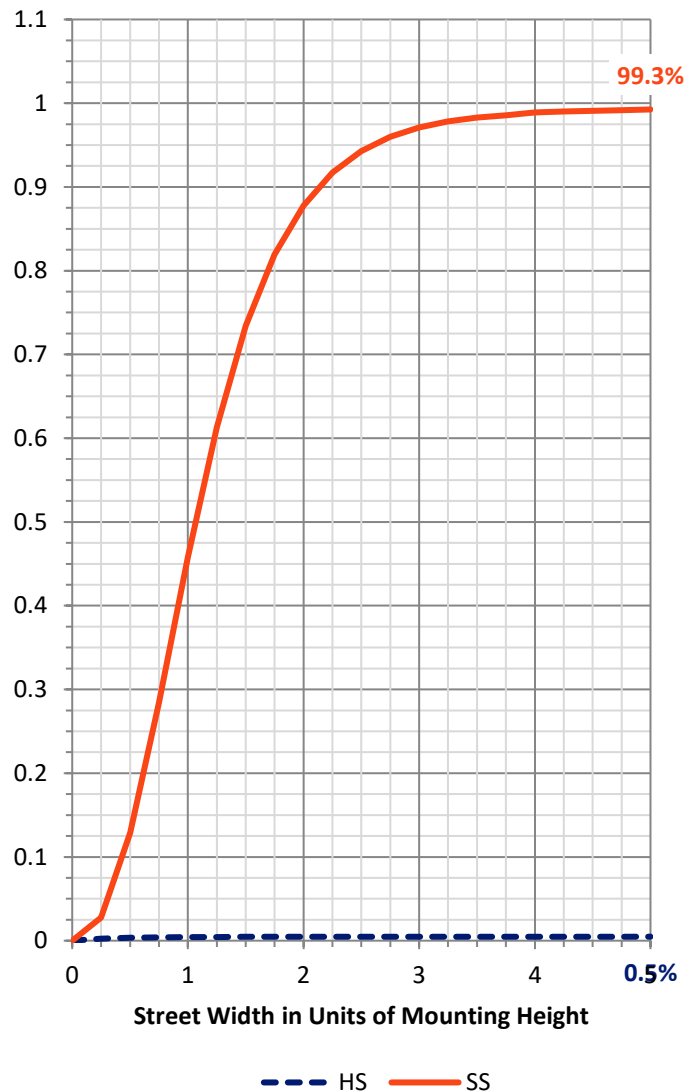
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17.9	0.0	17.9
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	3700.5	0.0	3700.5
	% Fixture	99.5	0.0	99.5
Total	Lumens	3718.4	0.0	3718.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.1	0.0
10°-20°	5.4	0.1
20°-30°	69.4	1.9
30°-40°	233.8	6.3
40°-50°	706.3	19.0
50°-60°	1246.8	33.5
60°-70°	1097.8	29.5
70°-80°	349.4	9.4
80°-90°	8.4	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°	3718.4	100.0
0°-180°	3718.4	100.0



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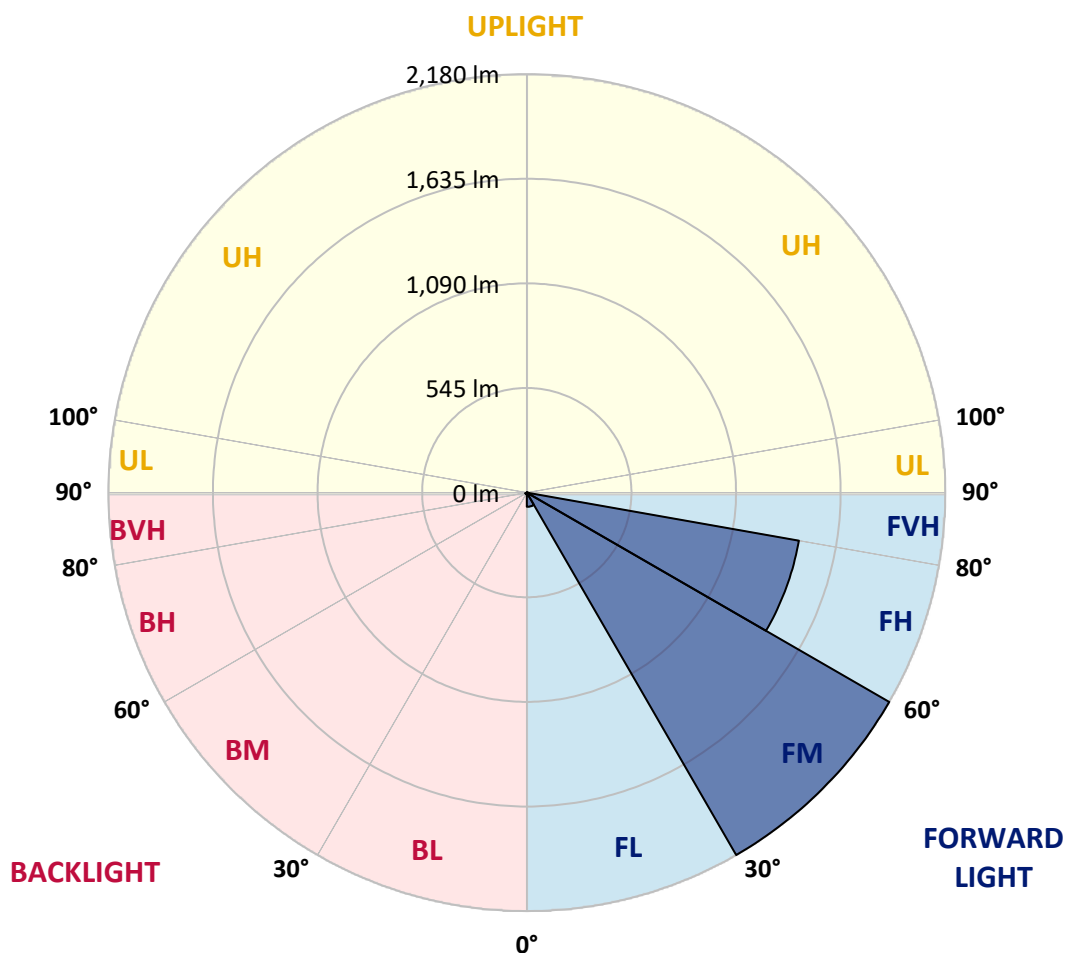
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	73.9	2.0			
FM	(30°-60°)	2179.6	58.6			
FH	(60°-80°)	1439.1	38.7			G1/1800
FVH	(80°-90°)	8.0	0.2			G0/10
BL	(0°-30°)	2.0	0.1	B0/110		
BM	(30°-60°)	7.3	0.2	B0/220		
BH	(60°-80°)	8.2	0.2	B0/110		G0/110
BVH	(80°-90°)	0.4	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°	42°	45°	55°	65°	75°	85°
0°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
2.5°	16.3	16.3	15.2	14.0	12.8	11.7	11.7	11.7	10.5	10.5	9.3
5°	18.7	18.7	17.5	16.3	16.3	15.2	15.2	14.0	12.8	12.8	11.7
7.5°	19.8	19.8	19.8	19.8	18.7	18.7	18.7	17.5	16.3	15.2	14.0
10°	21.0	22.2	23.3	23.3	23.3	23.3	23.3	22.2	19.8	18.7	16.3
12.5°	23.3	24.5	26.8	29.1	29.1	30.3	29.1	28.0	25.6	22.2	18.7
15°	25.6	28.0	31.5	36.1	40.8	42.0	42.0	38.5	33.8	26.8	22.2
17.5°	29.1	32.6	42.0	57.1	73.4	86.3	86.3	76.9	53.6	35.0	25.6
20°	31.5	38.5	67.6	137.6	209.9	263.5	253.0	223.8	120.1	54.8	28.0
22.5°	35.0	49.0	143.4	361.4	559.6	657.5	634.2	481.5	269.3	97.9	33.8
25°	39.6	71.1	284.5	677.4	1039.9	1146.0	1130.9	898.9	490.8	164.4	43.1
27.5°	49.0	104.9	455.8	1027.1	1534.3	1625.2	1619.4	1316.2	784.6	264.6	56.0
30°	61.8	152.7	676.2	1395.5	1861.9	1954.0	1924.8	1621.7	1058.6	404.5	72.3
32.5°	76.9	213.3	875.5	1667.2	2163.8	2285.1	2250.1	1887.5	1278.9	523.5	107.3
35°	100.3	272.8	1072.6	1907.3	2512.4	2666.3	2608.0	2161.5	1469.0	657.5	129.4
37.5°	111.9	307.8	1253.3	2168.5	2904.1	3114.0	3069.7	2507.7	1662.5	828.9	158.6
40°	113.1	349.8	1441.0	2508.9	3457.9	3832.1	3752.9	3102.3	2022.7	1049.3	204.0
42.5°	116.6	412.7	1684.6	3089.5	4545.6	5083.1	4993.3	4195.9	2840.0	1491.1	289.1
45°	132.9	531.6	2181.3	4174.9	6039.1	6827.2	6723.4	5719.6	3981.4	2322.4	493.2
47.5°	190.0	799.8	3052.2	5346.6	7566.3	8194.7	8169.1	6920.5	5015.5	3174.6	835.9
50°	305.5	1227.6	4043.1	6331.7	8538.6	9078.4	9014.3	7421.8	5605.4	3756.4	1071.4
52.5°	408.0	1636.8	4665.7	6694.3	8828.9	9472.5	9394.4	7604.8	5760.4	3927.7	1136.7
55°	433.7	1784.9	4851.1	6806.2	9021.3	9805.9	9692.8	7727.2	5780.3	3805.3	1028.3
57.5°	420.9	1645.0	4731.0	6915.8	9289.4	10148.7	9998.3	7966.2	5846.7	3597.8	855.7
59°	398.7	1472.5	4656.4	7003.2	9437.5	10202.3	10061.2	8018.7	5891.0	3503.4	750.8
60°	373.1	1355.9	4598.1	7060.4	9428.2	10118.4	9972.6	7994.2	5908.5	3421.8	700.7
62.5°	288.0	1081.9	4514.1	7019.5	8839.4	9352.4	9269.6	7395.0	5652.0	3160.6	552.6
65°	223.8	827.7	4206.4	6260.6	7522.0	7867.1	7841.5	6261.8	4756.6	2724.6	398.7
67.5°	177.2	603.9	3557.0	5070.3	6051.9	6542.7	6524.1	5083.1	3610.6	2082.2	286.8
70°	144.6	430.2	2438.9	3822.8	4840.6	5458.5	5431.7	4090.9	2675.6	1320.9	208.7
72.5°	122.4	275.1	1479.5	2882.0	4039.7	4392.9	4314.8	3300.5	1945.8	719.3	165.5
75°	103.8	169.0	733.3	1796.6	2406.3	2404.0	2325.9	1747.6	1044.6	352.1	131.7
77.5°	83.9	118.9	288.0	493.2	759.0	939.7	924.5	619.1	312.4	102.6	81.6
80°	54.8	56.0	76.9	135.2	208.7	230.8	262.3	188.9	90.9	49.0	33.8
82.5°	24.5	26.8	35.0	44.3	44.3	40.8	36.1	26.8	19.8	16.3	8.2
85°	5.8	8.2	5.8	7.0	5.8	4.7	4.7	2.3	0.0	0.0	0.0
87.5°	1.2	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
2.5°	9.3	9.3	9.3	8.2	8.2	8.2	7.0	7.0	7.0	5.8	5.8
5°	11.7	10.5	9.3	9.3	8.2	8.2	7.0	5.8	5.8	5.8	4.7
7.5°	12.8	11.7	10.5	9.3	8.2	7.0	7.0	5.8	4.7	4.7	4.7
10°	15.2	14.0	11.7	9.3	8.2	7.0	5.8	5.8	4.7	3.5	3.5
12.5°	17.5	15.2	12.8	10.5	8.2	7.0	5.8	5.8	4.7	3.5	2.3
15°	19.8	17.5	14.0	10.5	8.2	7.0	5.8	5.8	3.5	2.3	1.2
17.5°	22.2	18.7	14.0	11.7	8.2	7.0	5.8	4.7	2.3	1.2	0.0
20°	23.3	19.8	15.2	11.7	8.2	7.0	5.8	3.5	1.2	0.0	0.0
22.5°	25.6	22.2	16.3	11.7	8.2	5.8	3.5	1.2	0.0	0.0	0.0
25°	30.3	23.3	16.3	11.7	8.2	5.8	2.3	0.0	0.0	0.0	0.0
27.5°	33.8	25.6	16.3	11.7	8.2	4.7	1.2	0.0	0.0	0.0	0.0
30°	39.6	28.0	17.5	11.7	8.2	3.5	1.2	0.0	0.0	0.0	0.0
32.5°	49.0	30.3	17.5	11.7	7.0	3.5	0.0	0.0	0.0	0.0	0.0
35°	59.5	35.0	17.5	11.7	7.0	3.5	0.0	0.0	0.0	0.0	0.0
37.5°	60.6	37.3	17.5	11.7	7.0	2.3	0.0	0.0	0.0	0.0	0.0
40°	63.0	35.0	18.7	11.7	7.0	2.3	0.0	0.0	0.0	0.0	0.0
42.5°	72.3	32.6	19.8	11.7	7.0	2.3	0.0	0.0	0.0	0.0	0.0
45°	107.3	33.8	19.8	12.8	7.0	3.5	0.0	0.0	0.0	0.0	0.0
47.5°	186.5	35.0	18.7	12.8	7.0	3.5	0.0	0.0	0.0	0.0	0.0
50°	239.0	40.8	18.7	14.0	8.2	2.3	0.0	0.0	0.0	0.0	0.0
52.5°	254.2	47.8	18.7	15.2	10.5	1.2	0.0	0.0	0.0	0.0	0.0
55°	247.2	56.0	19.8	16.3	12.8	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	228.5	60.6	21.0	17.5	14.0	0.0	0.0	0.0	0.0	0.0	0.0
59°	208.7	64.1	24.5	18.7	14.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	192.4	67.6	25.6	19.8	14.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	155.1	72.3	28.0	23.3	11.7	0.0	0.0	0.0	0.0	0.0	0.0
65°	135.2	75.8	29.1	25.6	10.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	123.6	78.1	31.5	26.8	9.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	114.3	76.9	33.8	25.6	8.2	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	103.8	73.4	40.8	23.3	7.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	93.3	66.5	44.3	21.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	67.6	56.0	40.8	18.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	29.1	30.3	29.1	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.8	7.0	5.8	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
2.5°	5.8	5.8	5.8	5.8	7.0	7.0	9.3	11.7	14.0	15.2	15.2
5°	4.7	4.7	4.7	4.7	4.7	5.8	7.0	9.3	12.8	14.0	14.0
7.5°	3.5	3.5	3.5	3.5	3.5	3.5	5.8	8.2	11.7	12.8	14.0
10°	3.5	2.3	2.3	1.2	1.2	2.3	3.5	7.0	10.5	11.7	12.8
12.5°	2.3	1.2	1.2	0.0	0.0	1.2	2.3	5.8	9.3	10.5	11.7
15°	1.2	0.0	0.0	0.0	0.0	0.0	1.2	4.7	8.2	9.3	11.7
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	7.0	9.3	10.5
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	5.8	8.2	9.3
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	4.7	7.0	8.2
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	4.7	5.8
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	3.5	4.7
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	3.5	4.7
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.3	3.5
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.3	3.5
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.3	2.3
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.3
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.3
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.3
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.3
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.3
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	318°	325°	335°	345°	355°	360°
0°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
2.5°	16.3	16.3	15.2	14.0	14.0	14.0	15.2	16.3	16.3	16.3
5°	15.2	15.2	14.0	14.0	14.0	14.0	15.2	17.5	18.7	18.7
7.5°	15.2	15.2	14.0	14.0	14.0	14.0	15.2	17.5	18.7	19.8
10°	14.0	14.0	14.0	14.0	12.8	14.0	15.2	17.5	21.0	21.0
12.5°	14.0	14.0	14.0	14.0	12.8	14.0	16.3	18.7	22.2	23.3
15°	14.0	14.0	14.0	12.8	12.8	14.0	16.3	19.8	23.3	25.6
17.5°	12.8	14.0	14.0	12.8	12.8	14.0	16.3	19.8	25.6	29.1
20°	11.7	12.8	14.0	12.8	12.8	12.8	16.3	19.8	26.8	31.5
22.5°	10.5	11.7	12.8	12.8	11.7	12.8	16.3	21.0	29.1	35.0
25°	9.3	10.5	10.5	11.7	11.7	12.8	16.3	21.0	30.3	39.6
27.5°	7.0	8.2	9.3	10.5	10.5	12.8	16.3	22.2	32.6	49.0
30°	5.8	7.0	8.2	9.3	10.5	12.8	16.3	22.2	35.0	61.8
32.5°	5.8	7.0	8.2	9.3	10.5	11.7	16.3	23.3	38.5	76.9
35°	4.7	5.8	7.0	9.3	9.3	11.7	16.3	23.3	42.0	100.3
37.5°	4.7	5.8	7.0	9.3	9.3	11.7	16.3	23.3	51.3	111.9
40°	3.5	4.7	5.8	9.3	9.3	11.7	17.5	24.5	52.5	113.1
42.5°	3.5	4.7	5.8	8.2	9.3	11.7	17.5	24.5	49.0	116.6
45°	3.5	4.7	5.8	9.3	10.5	12.8	17.5	25.6	47.8	132.9
47.5°	3.5	4.7	5.8	9.3	11.7	12.8	17.5	25.6	49.0	190.0
50°	3.5	4.7	5.8	9.3	12.8	12.8	17.5	25.6	53.6	305.5
52.5°	2.3	3.5	4.7	8.2	10.5	14.0	18.7	24.5	57.1	408.0
55°	2.3	2.3	3.5	7.0	9.3	15.2	19.8	24.5	66.5	433.7
57.5°	2.3	2.3	3.5	5.8	8.2	16.3	21.0	24.5	76.9	420.9
59°	2.3	2.3	2.3	5.8	7.0	16.3	21.0	25.6	78.1	398.7
60°	2.3	2.3	2.3	4.7	7.0	16.3	22.2	26.8	79.3	373.1
62.5°	1.2	1.2	1.2	4.7	5.8	16.3	24.5	32.6	81.6	288.0
65°	2.3	2.3	1.2	3.5	5.8	14.0	28.0	35.0	82.8	223.8
67.5°	2.3	2.3	2.3	4.7	5.8	14.0	29.1	36.1	82.8	177.2
70°	2.3	2.3	2.3	4.7	7.0	14.0	29.1	37.3	81.6	144.6
72.5°	2.3	2.3	2.3	4.7	7.0	12.8	26.8	38.5	78.1	122.4
75°	2.3	2.3	2.3	3.5	5.8	11.7	25.6	42.0	71.1	103.8
77.5°	2.3	2.3	2.3	2.3	4.7	9.3	23.3	46.6	63.0	83.9
80°	3.5	2.3	2.3	2.3	3.5	8.2	22.2	45.5	52.5	54.8
82.5°	3.5	2.3	2.3	1.2	2.3	5.8	17.5	35.0	26.8	24.5
85°	2.3	2.3	2.3	1.2	1.2	3.5	8.2	10.5	8.2	5.8
87.5°	2.3	2.3	2.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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: SP1-2407-184-5

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-735-U-5WQ

Data in this report applies to families of products including GSS-SB1A-735-U-5WQ

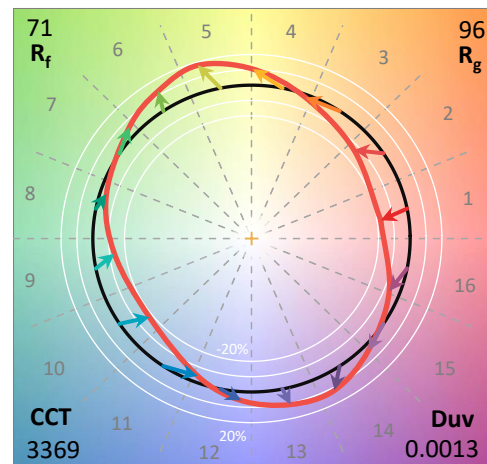
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-5
 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-735-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K): 3369
 CIE u' : 0.2386
 CIE v' : 0.5156
 Duv: 0.0013
 CIE x: 0.4143
 CIE y: 0.3980
 CIE z: 0.1877
 Peak Wavelength (nm): 590
 Dominant Wavelength (nm): 580
 Purity: 43.80166
 R_f: 71.4
 R_g: 96

CRI (Ra): 70.1
 R1: 66.6
 R2: 77.6
 R3: 88.5
 R4: 69.5
 R5: 66.4
 R6: 69.6
 R7: 77.5
 R8: 44.9
 R9: -40.2
 R10: 49.1
 R11: 66.3
 R12: 45.7
 R13: 68.0
 R14: 93.4
 R15: 57.6



Test Conditions

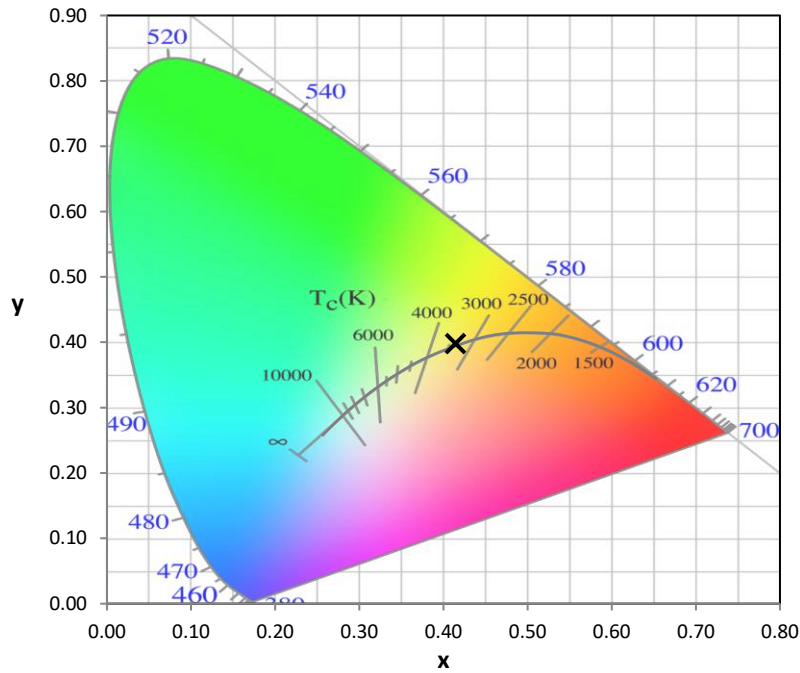
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-5

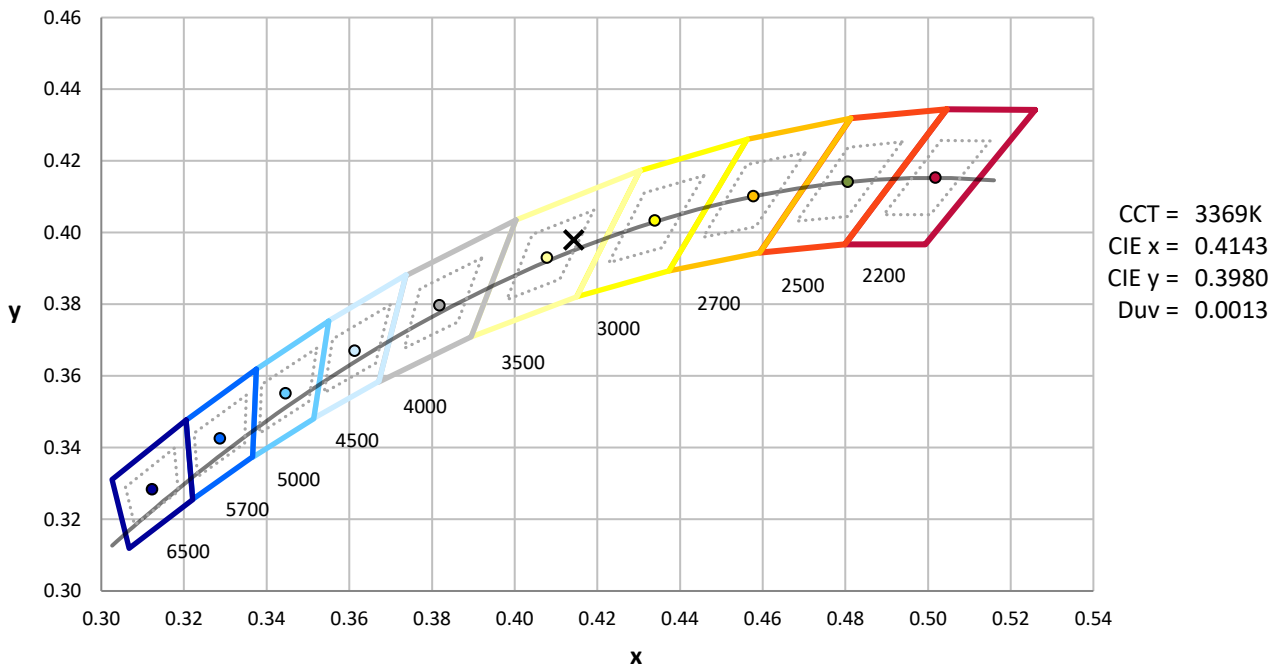
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



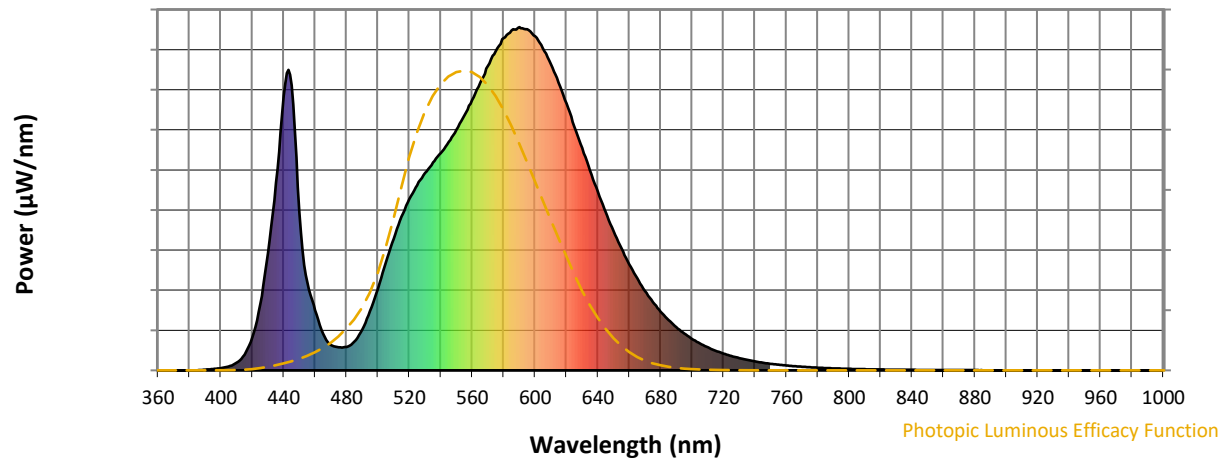
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-5

Photopic Flux vs. Wavelength

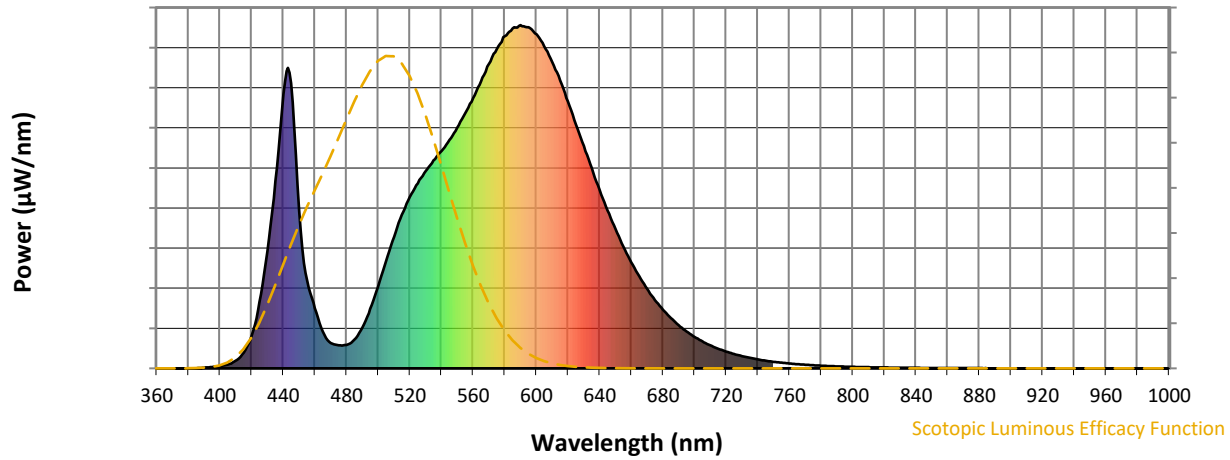


Photopic Lumens: NR

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

Scotopic Flux vs. Wavelength



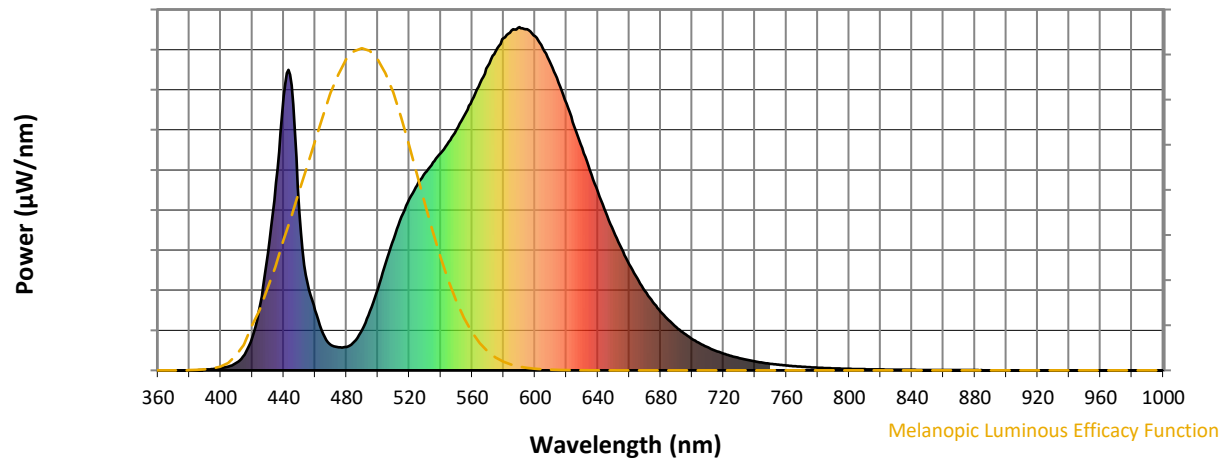
Scotopic Lumens: NR

S/P: 1.29

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.36

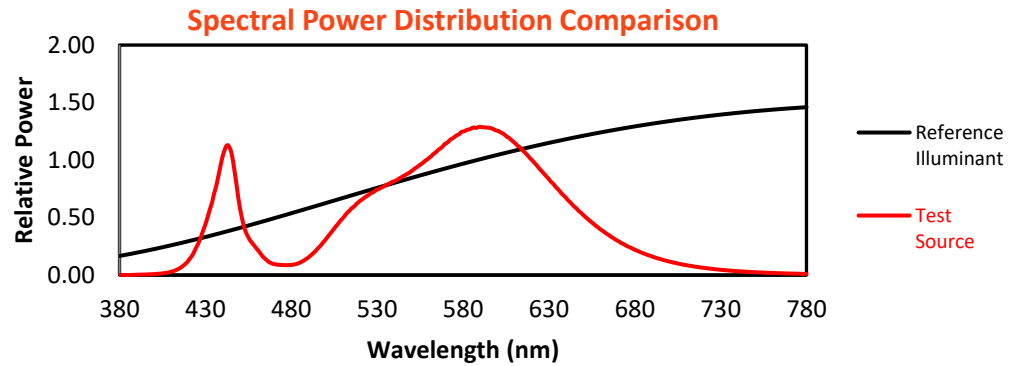
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

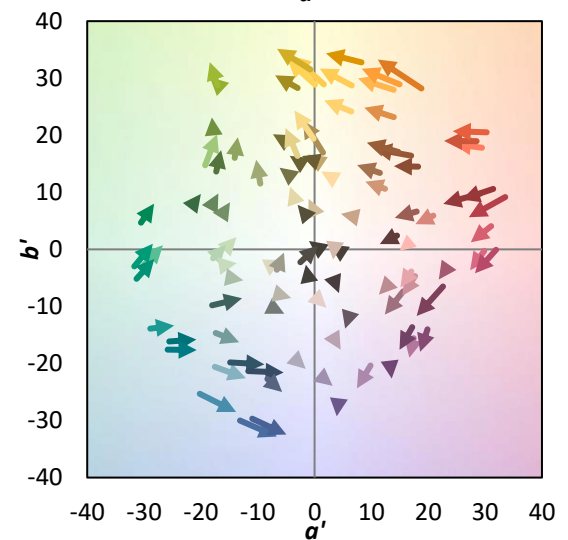
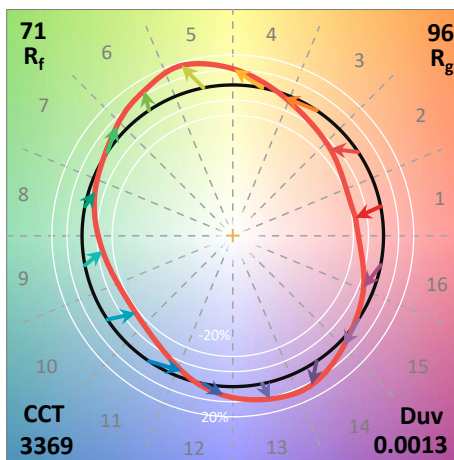
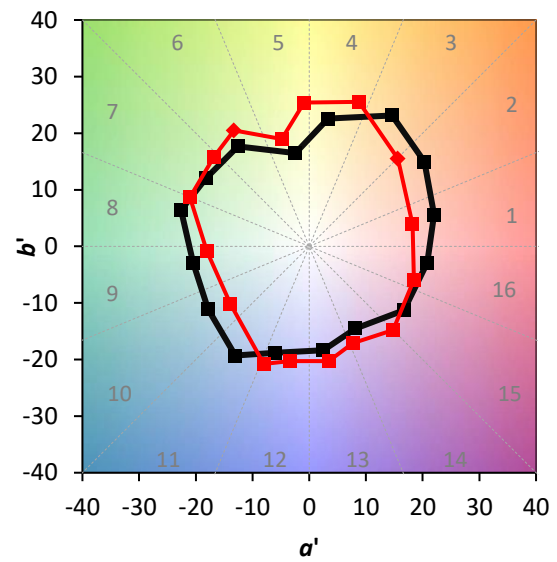
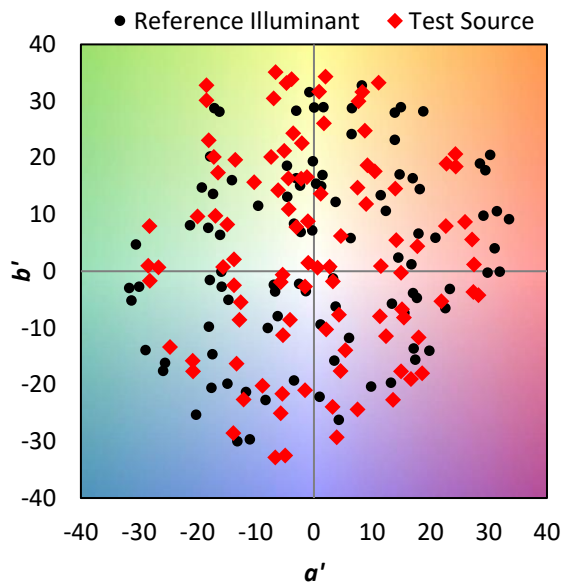
TM-30-18

Summary

$R_f = 71.4$
 $R_g = 96$
 $CIE R_a = 70.1$
 $R_g = -40.2$

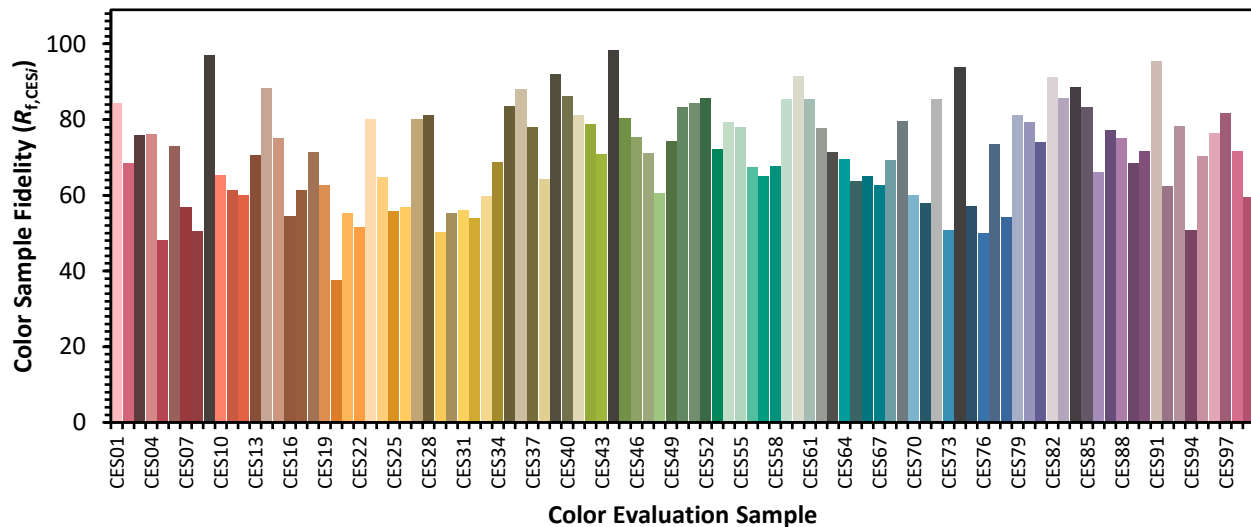


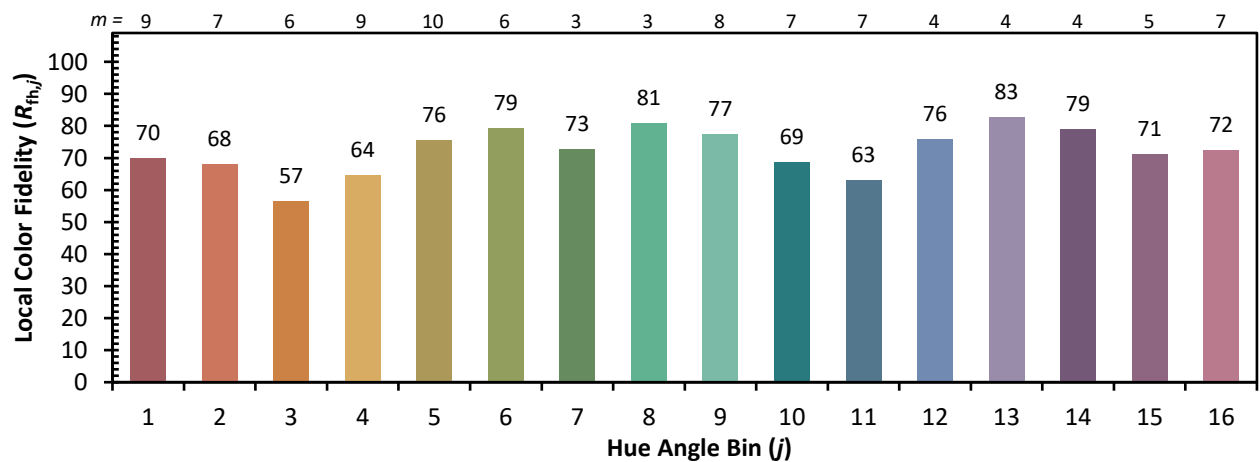
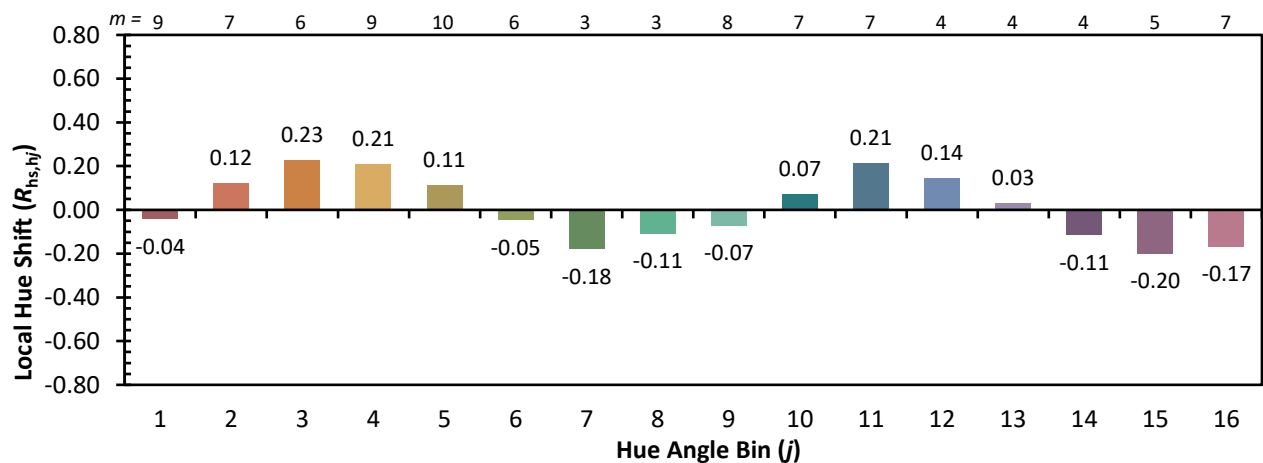
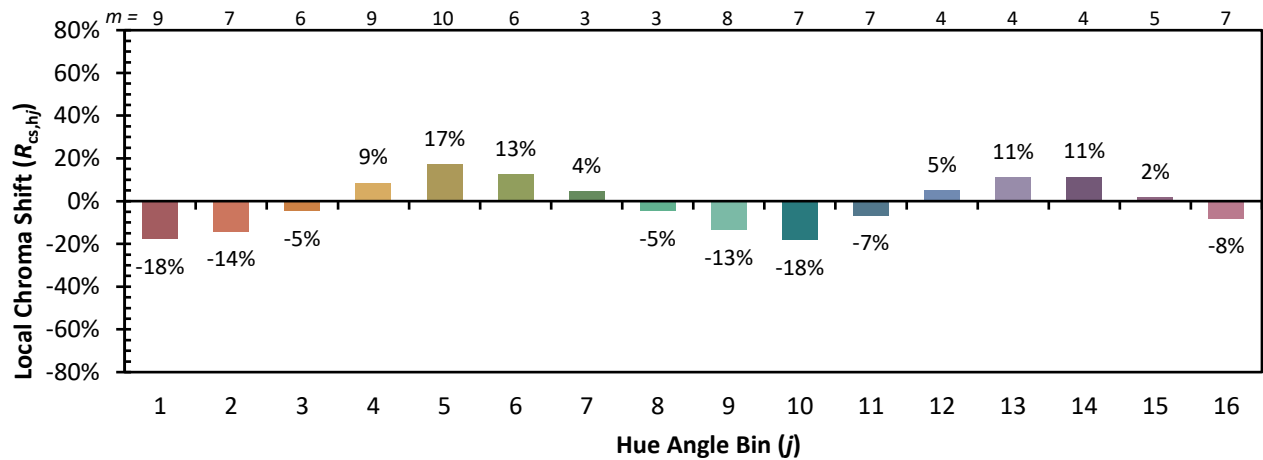
Color Vector Graphics



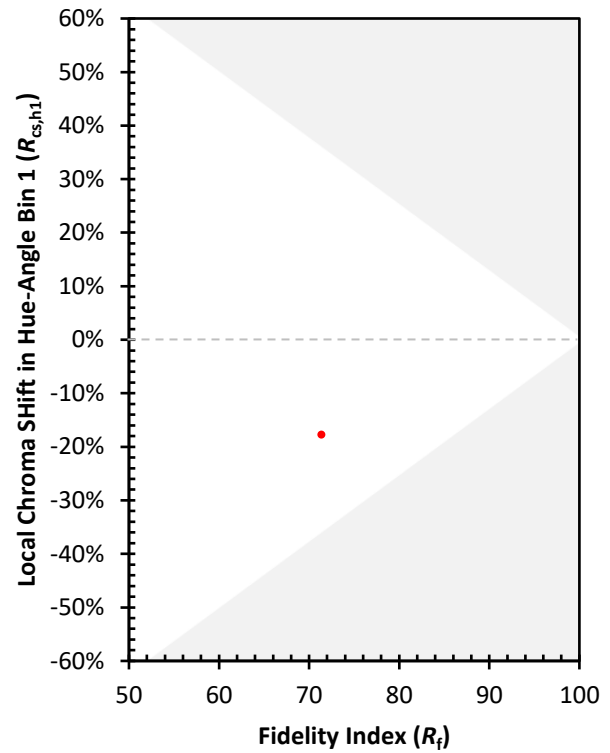
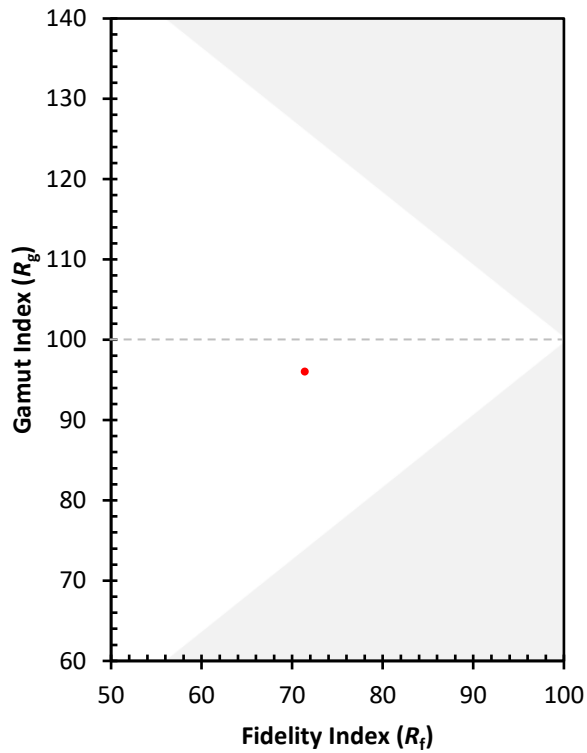
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82 = 91
CES08 = 39	CES33 = 60	CES58 = 68	CES83 = 86
CES09 = 29	CES34 = 69	CES59 = 85	CES84 = 89
CES10 = 75	CES35 = 83	CES60 = 91	CES85 = 83
CES11 = 58	CES36 = 88	CES61 = 85	CES86 = 66
CES12 = 64	CES37 = 78	CES62 = 78	CES87 = 77
CES13 = 43	CES38 = 64	CES63 = 71	CES88 = 75
CES14 = 74	CES39 = 92	CES64 = 70	CES89 = 68
CES15 = 71	CES40 = 86	CES65 = 64	CES90 = 72
CES16 = 47	CES41 = 81	CES66 = 65	CES91 = 95
CES17 = 50	CES42 = 79	CES67 = 63	CES92 = 62
CES18 = 56	CES43 = 71	CES68 = 69	CES93 = 78
CES19 = 72	CES44 = 98	CES69 = 80	CES94 = 51
CES20 = 65	CES45 = 80	CES70 = 60	CES95 = 70
CES21 = 87	CES46 = 75	CES71 = 58	CES96 = 76
CES22 = 79	CES47 = 71	CES72 = 85	CES97 = 82
CES23 = 92	CES48 = 61	CES73 = 51	CES98 = 72
CES24 = 91	CES49 = 74	CES74 = 94	CES99 = 60
CES25 = 72	CES50 = 83	CES75 = 57	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)