

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: P1066776

Luminaire Tested: **NVN-SA3D-735-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1066776
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SA3D-735-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 3xLight Square PACKAGE
70CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14672.8 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 160.9
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

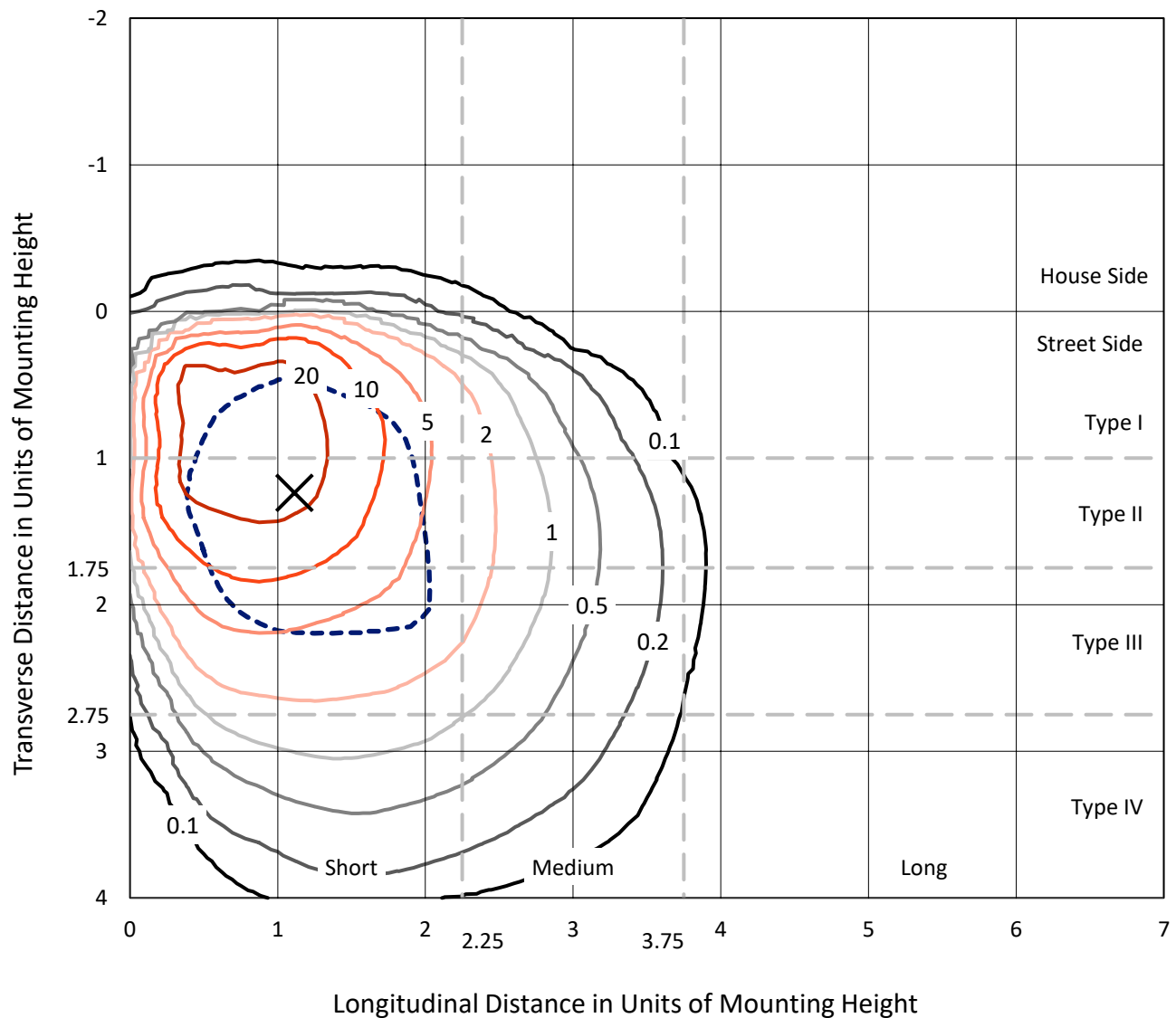


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

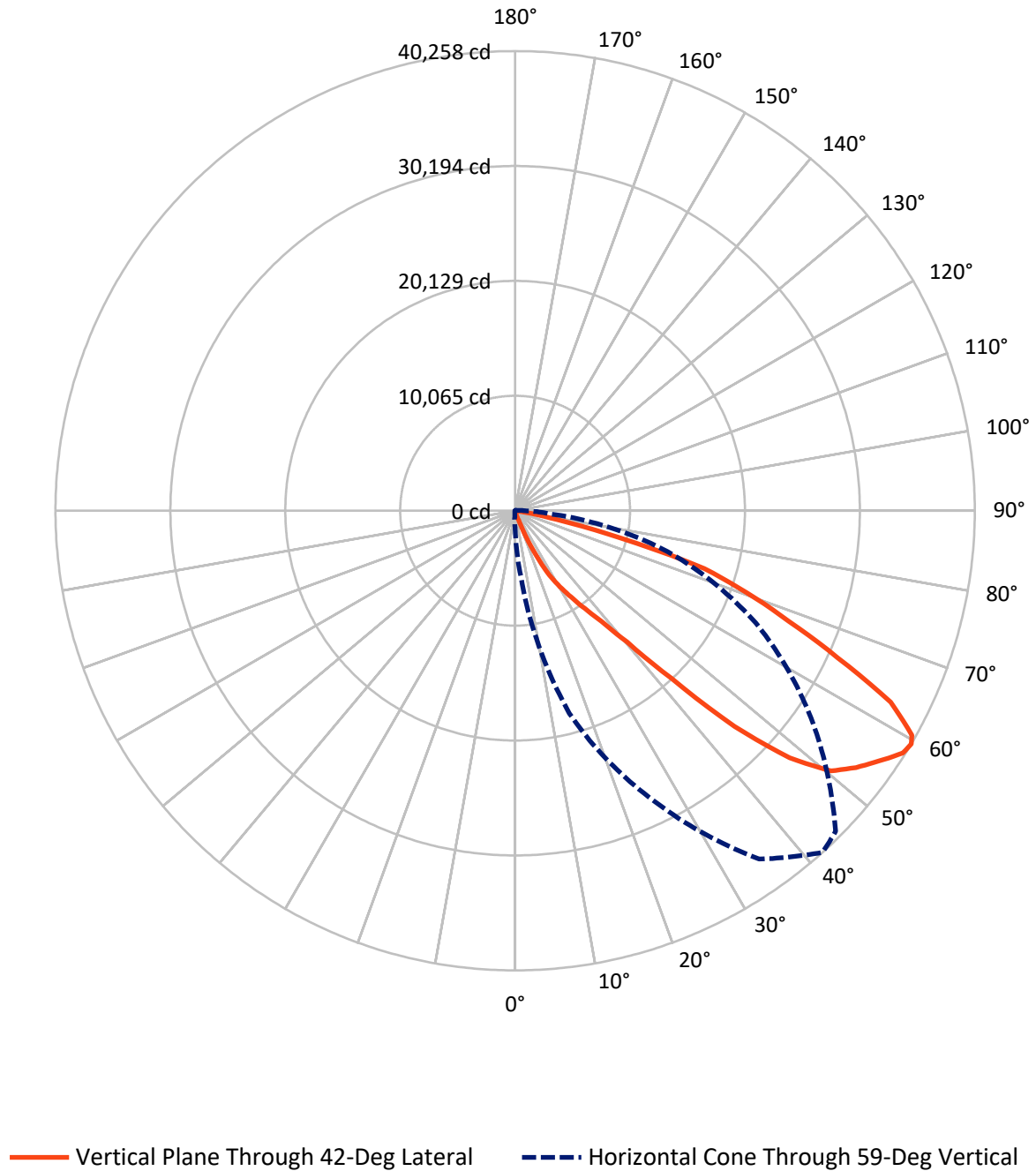


Based on 15 foot mounting height. Maximum calculated value = 43.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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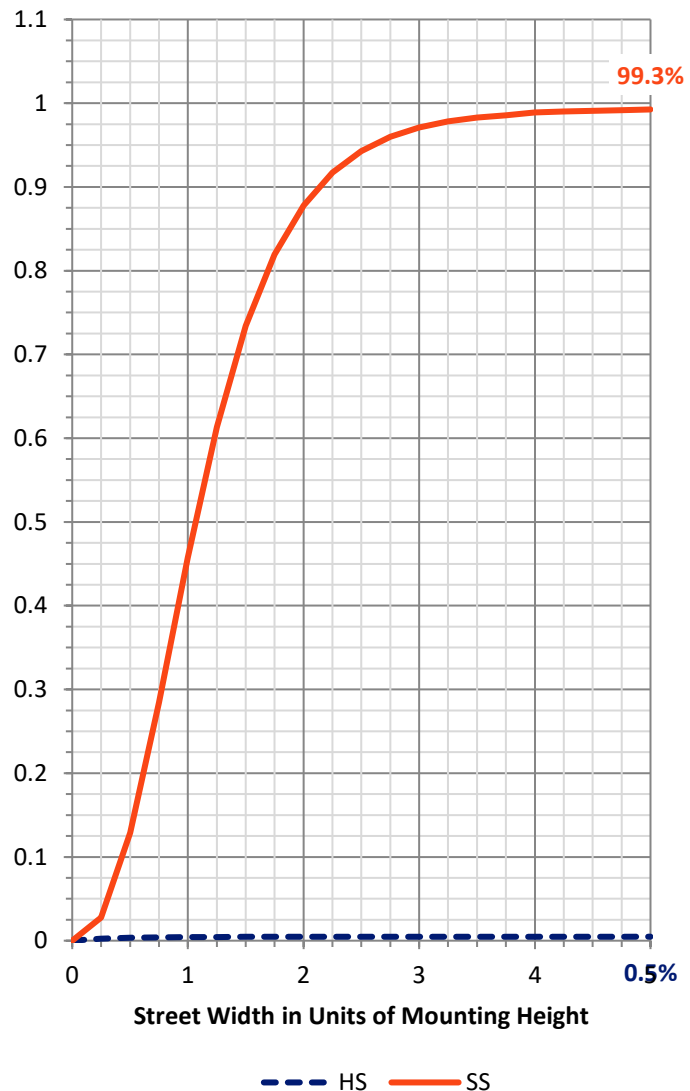
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	70.7	0.0	70.7
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	14602.1	0.0	14602.1
	% Fixture	99.5	0.0	99.5
Total	Lumens	14672.8	0.0	14672.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.3	0.0
10°-20°	21.4	0.1
20°-30°	273.7	1.9
30°-40°	922.7	6.3
40°-50°	2787.1	19.0
50°-60°	4919.8	33.5
60°-70°	4332.0	29.5
70°-80°	1378.9	9.4
80°-90°	33.0	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°	14672.8	100.0
0°-180°	14672.8	100.0



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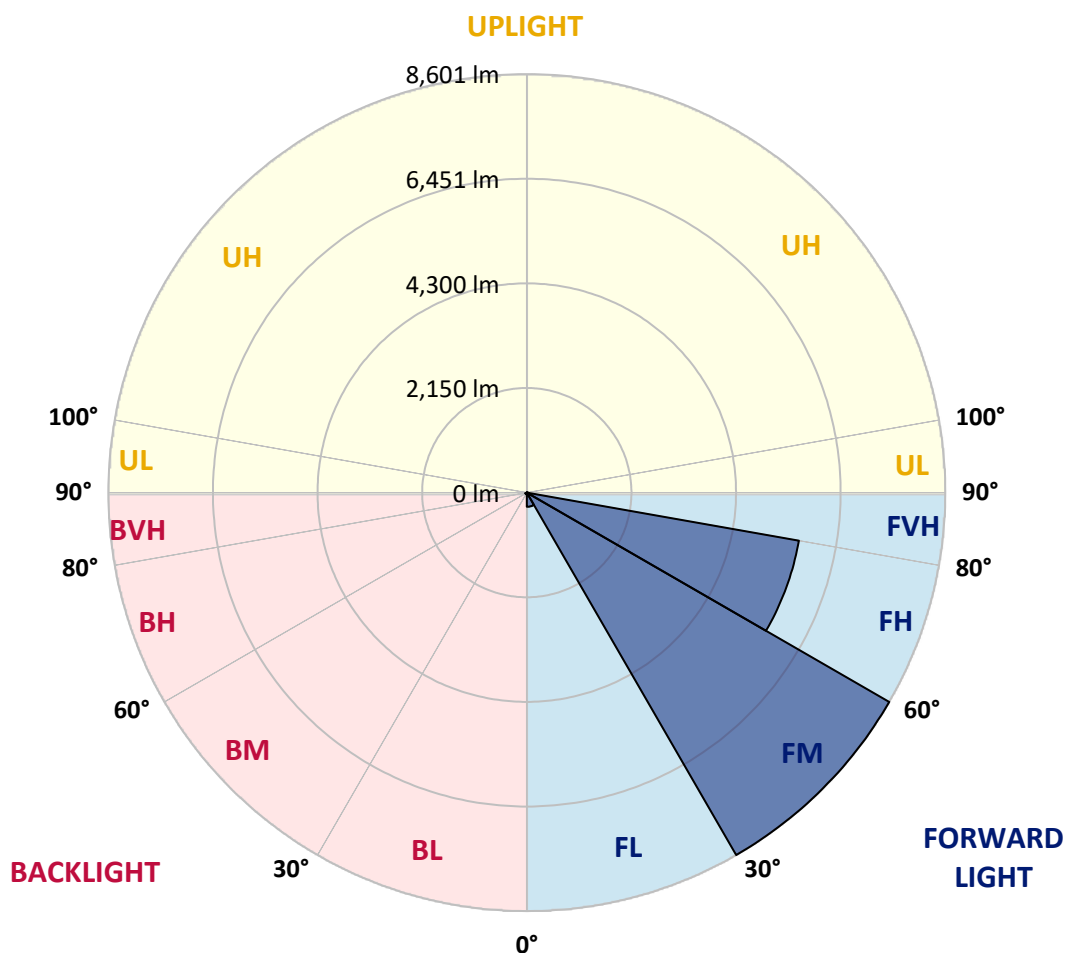
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	291.5	2.0			
FM	(30°-60°)	8600.7	58.6			
FH	(60°-80°)	5678.5	38.7			G3/7500
FVH	(80°-90°)	31.4	0.2			G1/100
BL	(0°-30°)	7.9	0.1	B0/110		
BM	(30°-60°)	28.9	0.2	B0/220		
BH	(60°-80°)	32.3	0.2	B0/110		G0/110
BVH	(80°-90°)	1.6	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
2.5°	64.4	64.4	59.8	55.2	50.6	46.0	46.0	46.0	41.4	41.4	36.8
5°	73.6	73.6	69.0	64.4	64.4	59.8	59.8	55.2	50.6	50.6	46.0
7.5°	78.2	78.2	78.2	78.2	73.6	73.6	73.6	69.0	64.4	59.8	55.2
10°	82.8	87.4	92.0	92.0	92.0	92.0	92.0	87.4	78.2	73.6	64.4
12.5°	92.0	96.6	105.8	115.0	115.0	119.6	115.0	110.4	101.2	87.4	73.6
15°	101.2	110.4	124.2	142.6	161.0	165.6	165.6	151.8	133.4	105.8	87.4
17.5°	115.0	128.8	165.6	225.4	289.8	340.4	340.4	303.6	211.6	138.0	101.2
20°	124.2	151.8	266.8	542.9	828.1	1039.7	998.3	883.3	473.8	216.2	110.4
22.5°	138.0	193.2	565.9	1426.1	2208.2	2594.6	2502.6	1900.0	1062.7	386.4	133.4
25°	156.4	280.6	1122.5	2672.9	4103.6	4522.2	4462.4	3546.9	1936.8	648.7	170.2
27.5°	193.2	414.0	1798.8	4053.0	6054.2	6413.0	6390.0	5193.9	3096.1	1044.3	220.8
30°	243.8	602.7	2668.2	5506.7	7346.9	7710.3	7595.3	6399.2	4177.2	1596.3	285.2
32.5°	303.6	841.9	3454.9	6578.6	8538.4	9016.8	8878.8	7448.1	5046.7	2065.6	423.2
35°	395.6	1076.5	4232.4	7526.3	9913.9	10521.2	10291.2	8529.2	5796.5	2594.6	510.6
37.5°	441.6	1214.5	4945.5	8556.8	11459.7	12287.8	12112.9	9895.5	6560.2	3270.9	625.7
40°	446.2	1380.1	5686.1	9900.1	13644.9	15121.6	14808.8	12241.7	7981.7	4140.4	805.1
42.5°	460.0	1628.6	6647.6	12191.1	17937.1	20057.9	19703.6	16556.9	11206.6	5884.0	1140.9
45°	524.4	2097.8	8607.4	16474.1	23830.2	26940.1	26530.7	22569.7	15710.5	9164.1	1946.0
47.5°	749.9	3155.9	12043.9	21097.6	29856.8	32336.4	32235.2	27308.2	19791.1	12527.0	3298.5
50°	1205.3	4844.3	15954.3	24984.9	33693.6	35823.6	35570.5	29286.3	22118.9	14822.6	4227.8
52.5°	1610.2	6459.0	18410.9	26415.7	34839.1	37378.5	37070.3	30008.6	22730.7	15498.9	4485.4
55°	1711.4	7043.3	19142.4	26857.3	35598.1	38694.2	38248.0	30491.7	22808.9	15015.8	4057.6
57.5°	1660.8	6491.2	18668.5	27289.8	36656.2	40046.7	39453.3	31434.7	23071.2	14196.9	3376.7
59°	1573.3	5810.3	18374.1	27634.8	37240.5	40258.4	39701.7	31641.8	23246.0	13824.3	2962.7
60°	1472.1	5350.3	18144.1	27860.2	37203.7	39927.1	39352.1	31545.2	23315.0	13502.3	2764.9
62.5°	1136.3	4269.2	17812.9	27699.2	34880.5	36904.7	36578.0	29180.5	22302.9	12471.8	2180.6
65°	883.3	3266.3	16598.4	24704.3	29682.0	31043.7	30942.5	24708.9	18769.8	10751.2	1573.3
67.5°	699.3	2383.0	14035.9	20007.3	23880.8	25817.6	25744.0	20057.9	14247.5	8216.4	1131.7
70°	570.5	1697.6	9624.1	15084.8	19101.0	21539.2	21433.4	16142.9	10558.0	5212.3	823.5
72.5°	483.0	1085.7	5837.9	11372.3	15940.5	17334.4	17026.2	13023.8	7678.1	2838.5	653.3
75°	409.4	667.1	2893.7	7089.3	9495.3	9486.1	9177.9	6896.0	4122.0	1389.3	519.8
77.5°	331.2	469.2	1136.3	1946.0	2994.9	3707.9	3648.1	2442.8	1232.9	404.8	322.0
80°	216.2	220.8	303.6	533.6	823.5	910.9	1035.1	745.3	358.8	193.2	133.4
82.5°	96.6	105.8	138.0	174.8	174.8	161.0	142.6	105.8	78.2	64.4	32.2
85°	23.0	32.2	23.0	27.6	23.0	18.4	18.4	9.2	0.0	0.0	0.0
87.5°	4.6	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°	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
2.5°	36.8	36.8	36.8	32.2	32.2	32.2	27.6	27.6	27.6	23.0	23.0
5°	46.0	41.4	36.8	36.8	32.2	32.2	27.6	23.0	23.0	23.0	18.4
7.5°	50.6	46.0	41.4	36.8	32.2	27.6	27.6	23.0	18.4	18.4	18.4
10°	59.8	55.2	46.0	36.8	32.2	27.6	23.0	23.0	18.4	13.8	13.8
12.5°	69.0	59.8	50.6	41.4	32.2	27.6	23.0	23.0	18.4	13.8	9.2
15°	78.2	69.0	55.2	41.4	32.2	27.6	23.0	23.0	13.8	9.2	4.6
17.5°	87.4	73.6	55.2	46.0	32.2	27.6	23.0	18.4	9.2	4.6	0.0
20°	92.0	78.2	59.8	46.0	32.2	27.6	23.0	13.8	4.6	0.0	0.0
22.5°	101.2	87.4	64.4	46.0	32.2	23.0	13.8	4.6	0.0	0.0	0.0
25°	119.6	92.0	64.4	46.0	32.2	23.0	9.2	0.0	0.0	0.0	0.0
27.5°	133.4	101.2	64.4	46.0	32.2	18.4	4.6	0.0	0.0	0.0	0.0
30°	156.4	110.4	69.0	46.0	32.2	13.8	4.6	0.0	0.0	0.0	0.0
32.5°	193.2	119.6	69.0	46.0	27.6	13.8	0.0	0.0	0.0	0.0	0.0
35°	234.6	138.0	69.0	46.0	27.6	13.8	0.0	0.0	0.0	0.0	0.0
37.5°	239.2	147.2	69.0	46.0	27.6	9.2	0.0	0.0	0.0	0.0	0.0
40°	248.4	138.0	73.6	46.0	27.6	9.2	0.0	0.0	0.0	0.0	0.0
42.5°	285.2	128.8	78.2	46.0	27.6	9.2	0.0	0.0	0.0	0.0	0.0
45°	423.2	133.4	78.2	50.6	27.6	13.8	0.0	0.0	0.0	0.0	0.0
47.5°	736.1	138.0	73.6	50.6	27.6	13.8	0.0	0.0	0.0	0.0	0.0
50°	943.1	161.0	73.6	55.2	32.2	9.2	0.0	0.0	0.0	0.0	0.0
52.5°	1002.9	188.6	73.6	59.8	41.4	4.6	0.0	0.0	0.0	0.0	0.0
55°	975.3	220.8	78.2	64.4	50.6	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	901.7	239.2	82.8	69.0	55.2	0.0	0.0	0.0	0.0	0.0	0.0
59°	823.5	253.0	96.6	73.6	55.2	0.0	0.0	0.0	0.0	0.0	0.0
60°	759.1	266.8	101.2	78.2	55.2	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	611.9	285.2	110.4	92.0	46.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	533.6	299.0	115.0	101.2	41.4	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	487.6	308.2	124.2	105.8	36.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	450.8	303.6	133.4	101.2	32.2	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	409.4	289.8	161.0	92.0	27.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	368.0	262.2	174.8	82.8	18.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	266.8	220.8	161.0	73.6	9.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	115.0	119.6	115.0	55.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	23.0	27.6	23.0	13.8	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°	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
2.5°	23.0	23.0	23.0	23.0	27.6	27.6	36.8	46.0	55.2	59.8	59.8
5°	18.4	18.4	18.4	18.4	18.4	23.0	27.6	36.8	50.6	55.2	55.2
7.5°	13.8	13.8	13.8	13.8	13.8	13.8	23.0	32.2	46.0	50.6	55.2
10°	13.8	9.2	9.2	4.6	4.6	9.2	13.8	27.6	41.4	46.0	50.6
12.5°	9.2	4.6	4.6	0.0	0.0	4.6	9.2	23.0	36.8	41.4	46.0
15°	4.6	0.0	0.0	0.0	0.0	0.0	4.6	18.4	32.2	36.8	46.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.8	27.6	36.8	41.4
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	23.0	32.2	36.8
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	18.4	27.6	32.2
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.8	18.4	23.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	13.8	18.4
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	13.8	18.4
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	9.2	13.8
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	9.2	13.8
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	9.2	9.2
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	9.2
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	9.2
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	9.2
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	9.2
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	9.2
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.6
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.6
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	9.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	9.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.6
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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CATALOG NUMBER: NVN-SA3D-735-U-LBC

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	318°	325°	335°	345°	355°	360°
0°	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
2.5°	64.4	64.4	59.8	55.2	55.2	55.2	59.8	64.4	64.4	64.4
5°	59.8	59.8	55.2	55.2	55.2	55.2	59.8	69.0	73.6	73.6
7.5°	59.8	59.8	55.2	55.2	55.2	55.2	59.8	69.0	73.6	78.2
10°	55.2	55.2	55.2	55.2	50.6	55.2	59.8	69.0	82.8	82.8
12.5°	55.2	55.2	55.2	55.2	50.6	55.2	64.4	73.6	87.4	92.0
15°	55.2	55.2	55.2	50.6	50.6	55.2	64.4	78.2	92.0	101.2
17.5°	50.6	55.2	55.2	50.6	50.6	55.2	64.4	78.2	101.2	115.0
20°	46.0	50.6	55.2	50.6	50.6	50.6	64.4	78.2	105.8	124.2
22.5°	41.4	46.0	50.6	50.6	46.0	50.6	64.4	82.8	115.0	138.0
25°	36.8	41.4	41.4	46.0	46.0	50.6	64.4	82.8	119.6	156.4
27.5°	27.6	32.2	36.8	41.4	41.4	50.6	64.4	87.4	128.8	193.2
30°	23.0	27.6	32.2	36.8	41.4	50.6	64.4	87.4	138.0	243.8
32.5°	23.0	27.6	32.2	36.8	41.4	46.0	64.4	92.0	151.8	303.6
35°	18.4	23.0	27.6	36.8	36.8	46.0	64.4	92.0	165.6	395.6
37.5°	18.4	23.0	27.6	36.8	36.8	46.0	64.4	92.0	202.4	441.6
40°	13.8	18.4	23.0	36.8	36.8	46.0	69.0	96.6	207.0	446.2
42.5°	13.8	18.4	23.0	32.2	36.8	46.0	69.0	96.6	193.2	460.0
45°	13.8	18.4	23.0	36.8	41.4	50.6	69.0	101.2	188.6	524.4
47.5°	13.8	18.4	23.0	36.8	46.0	50.6	69.0	101.2	193.2	749.9
50°	13.8	18.4	23.0	36.8	50.6	50.6	69.0	101.2	211.6	1205.3
52.5°	9.2	13.8	18.4	32.2	41.4	55.2	73.6	96.6	225.4	1610.2
55°	9.2	9.2	13.8	27.6	36.8	59.8	78.2	96.6	262.2	1711.4
57.5°	9.2	9.2	13.8	23.0	32.2	64.4	82.8	96.6	303.6	1660.8
59°	9.2	9.2	9.2	23.0	27.6	64.4	82.8	101.2	308.2	1573.3
60°	9.2	9.2	9.2	18.4	27.6	64.4	87.4	105.8	312.8	1472.1
62.5°	4.6	4.6	4.6	18.4	23.0	64.4	96.6	128.8	322.0	1136.3
65°	9.2	9.2	4.6	13.8	23.0	55.2	110.4	138.0	326.6	883.3
67.5°	9.2	9.2	9.2	18.4	23.0	55.2	115.0	142.6	326.6	699.3
70°	9.2	9.2	9.2	18.4	27.6	55.2	115.0	147.2	322.0	570.5
72.5°	9.2	9.2	9.2	18.4	27.6	50.6	105.8	151.8	308.2	483.0
75°	9.2	9.2	9.2	13.8	23.0	46.0	101.2	165.6	280.6	409.4
77.5°	9.2	9.2	9.2	9.2	18.4	36.8	92.0	184.0	248.4	331.2
80°	13.8	9.2	9.2	9.2	13.8	32.2	87.4	179.4	207.0	216.2
82.5°	13.8	9.2	9.2	4.6	9.2	23.0	69.0	138.0	105.8	96.6
85°	9.2	9.2	9.2	4.6	4.6	13.8	32.2	41.4	32.2	23.0
87.5°	9.2	9.2	9.2	4.6	4.6	4.6	4.6	4.6	4.6	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

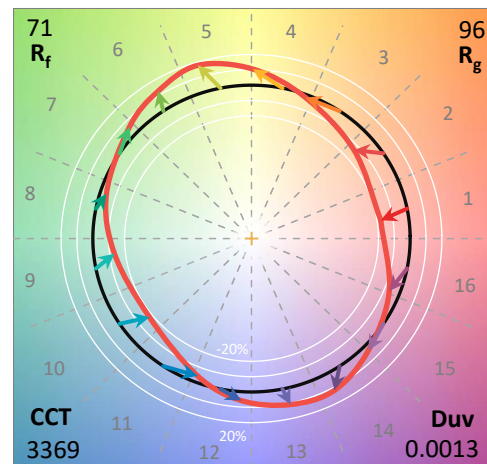
Test Information

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

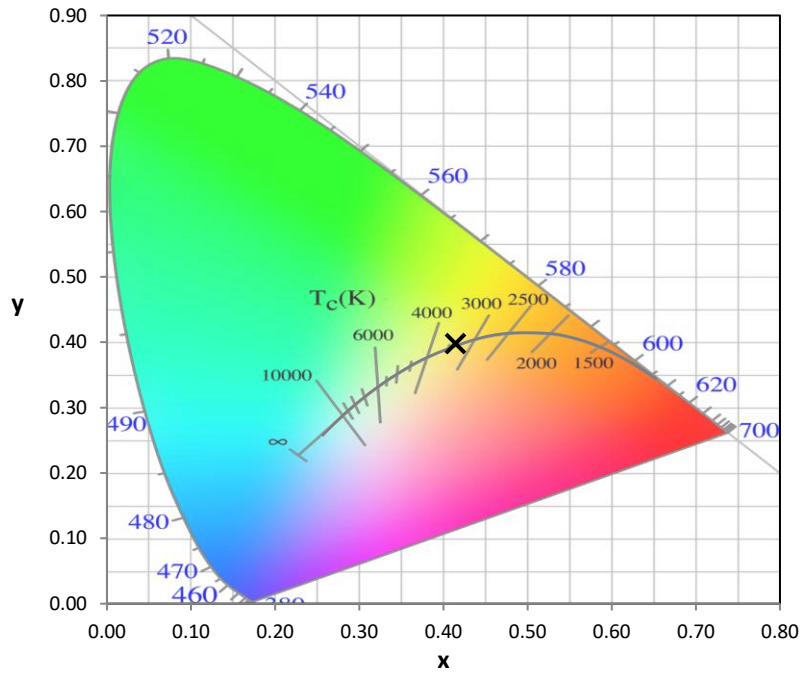
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-5

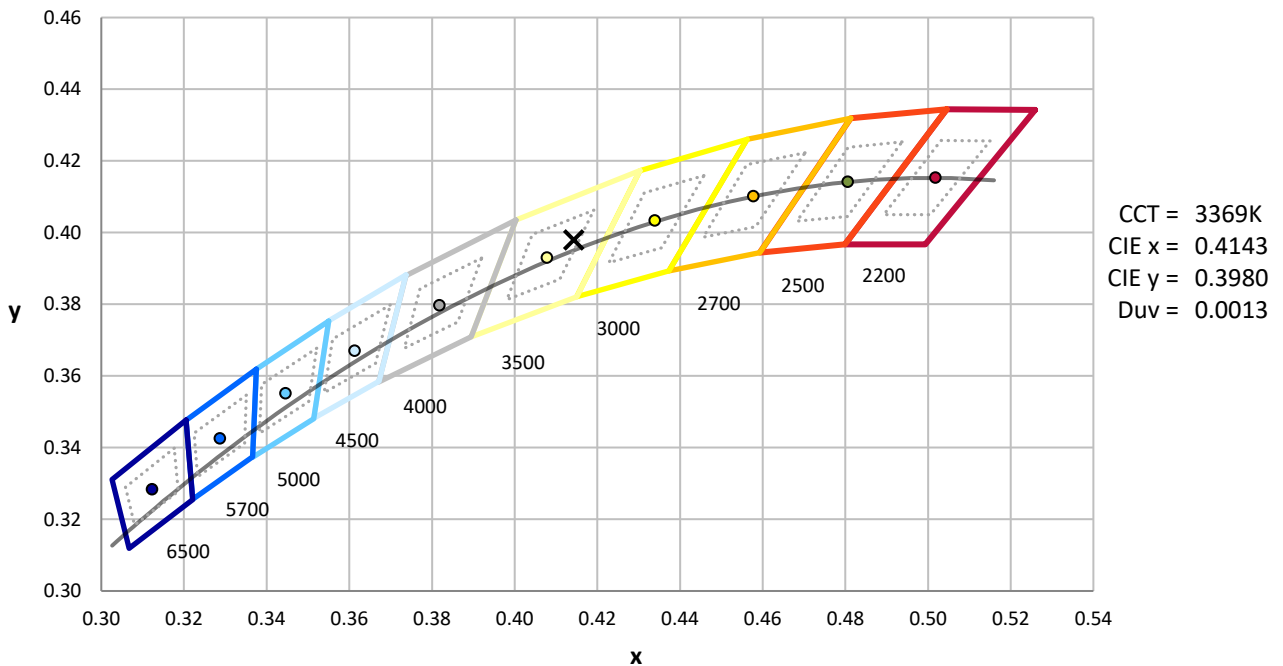
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-5

CIE 1931 Chromaticity Diagram



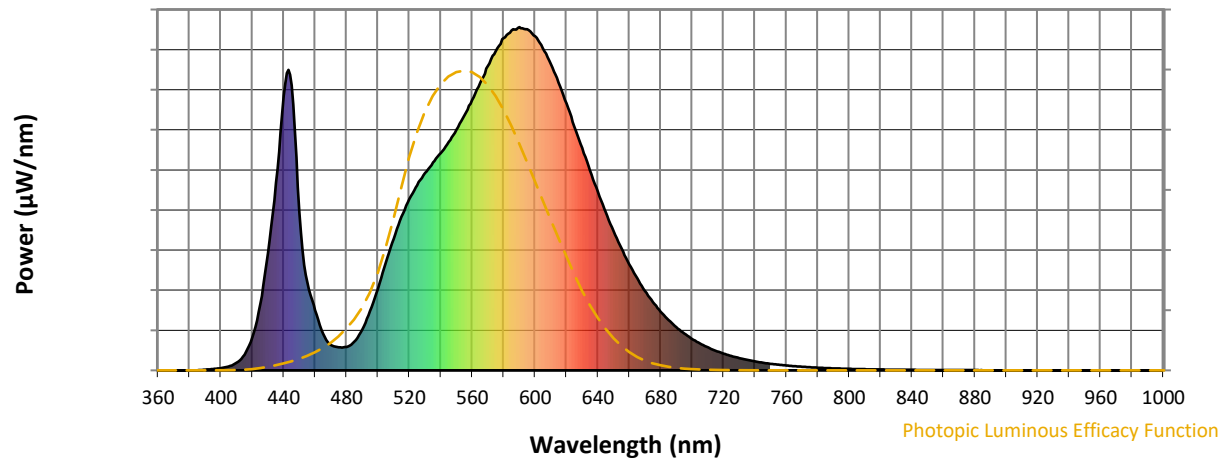
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-5

Photopic Flux vs. Wavelength

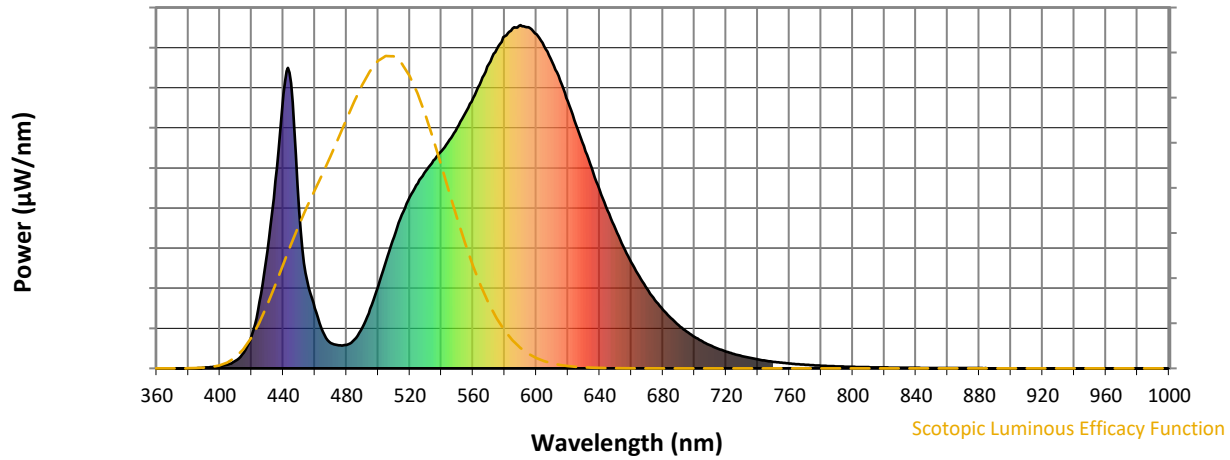


Photopic Lumens: NR

λ (nm)	Power 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			

REPORT NUMBER: SP1-2407-184-5

Scotopic Flux vs. Wavelength



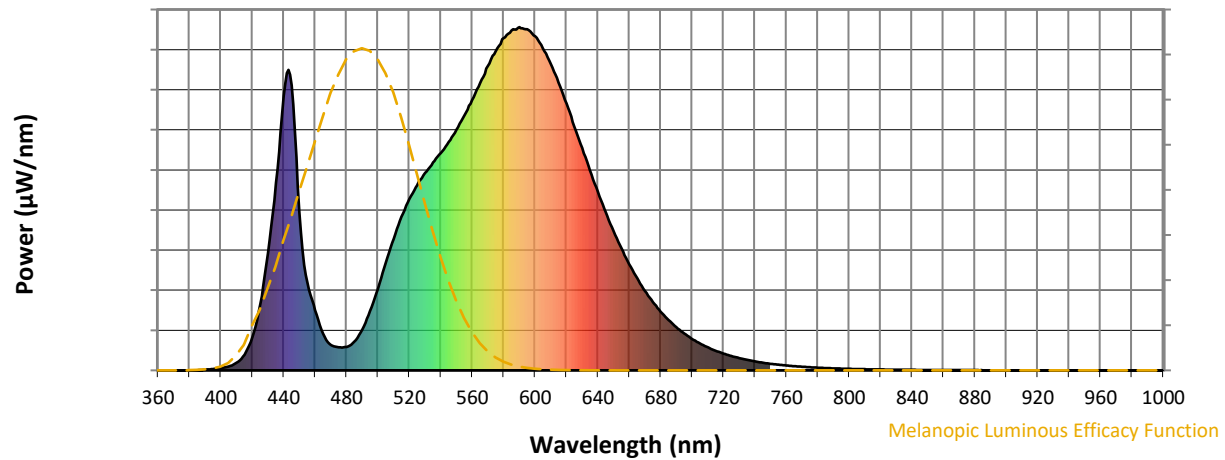
Scotopic Lumens: NR

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

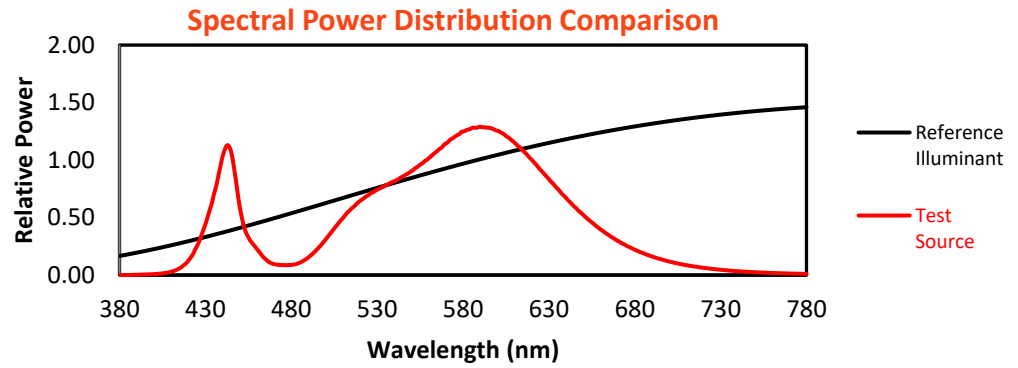
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	119	NR	620	778	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

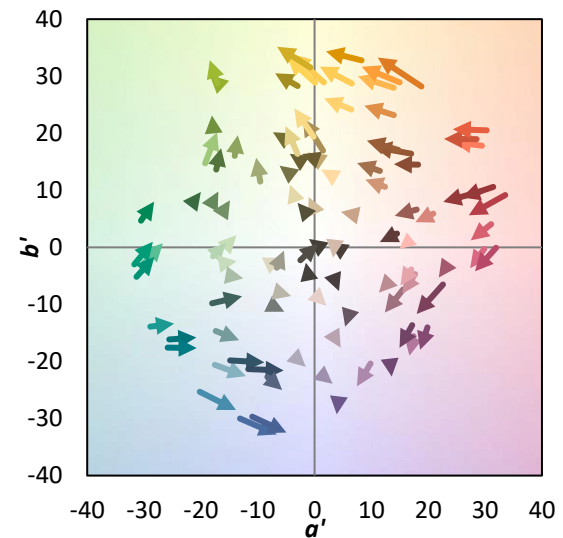
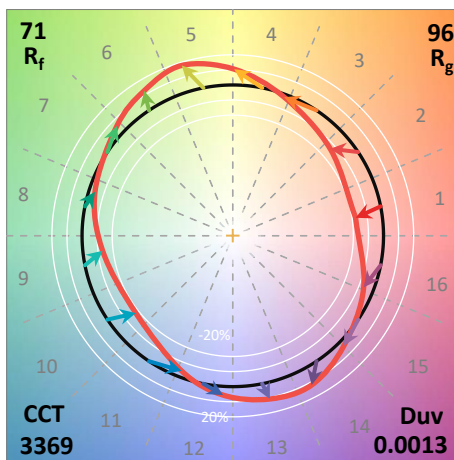
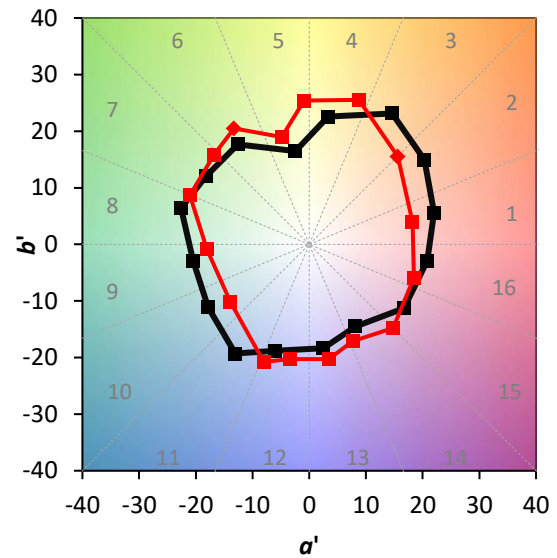
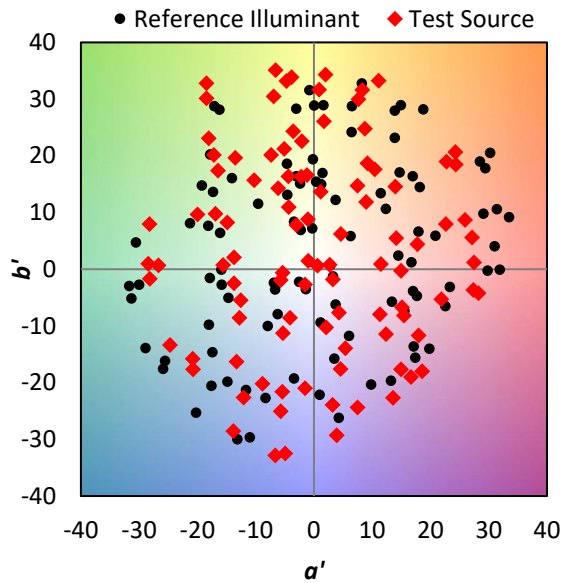
TM-30-18

Summary

$R_f = 71.4$
 $R_g = 96$
 $\text{CIE } R_a = 70.1$
 $R_g = -40.2$

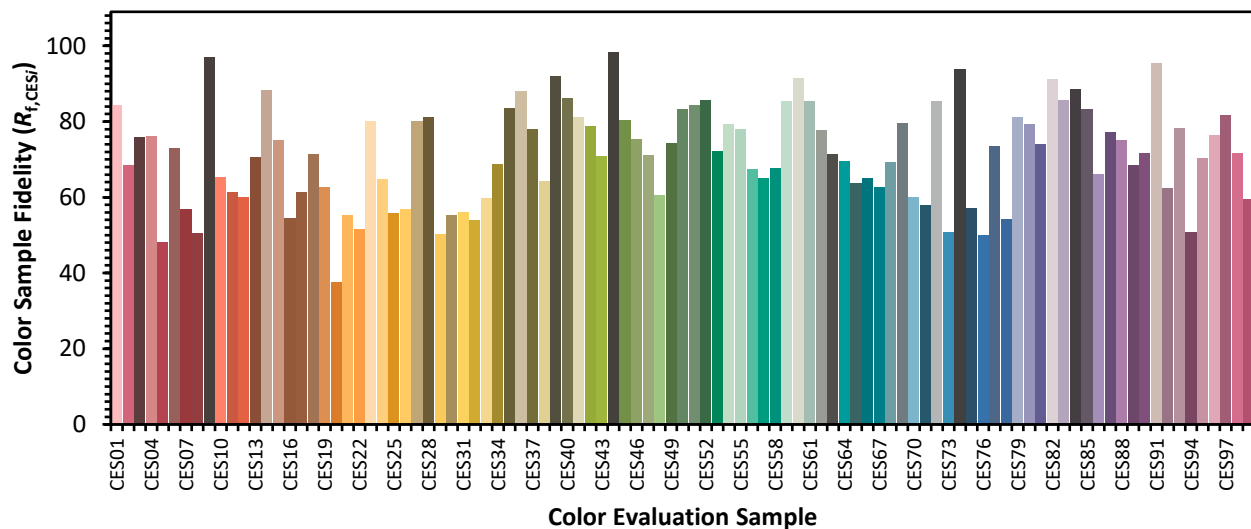


Color Vector Graphics

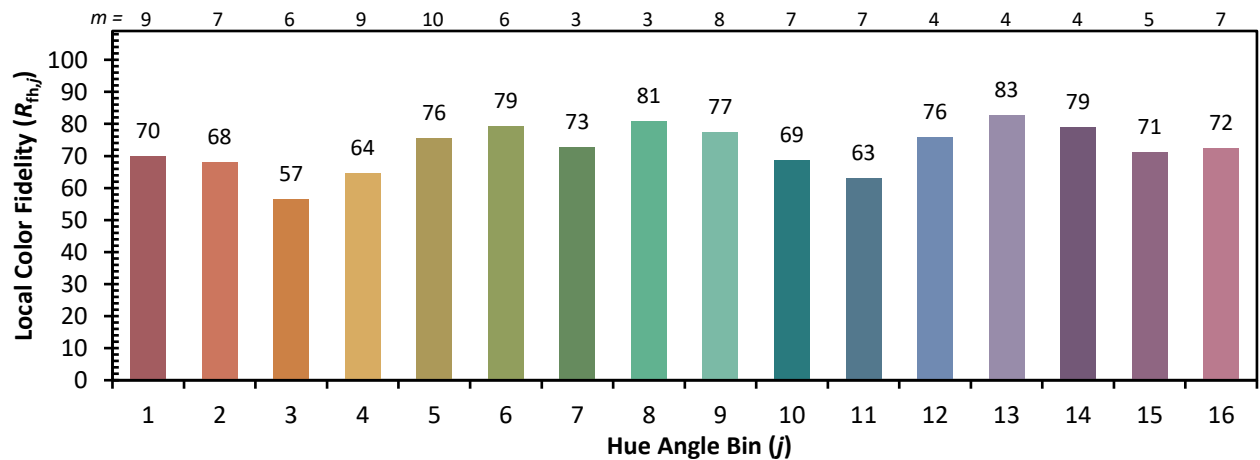
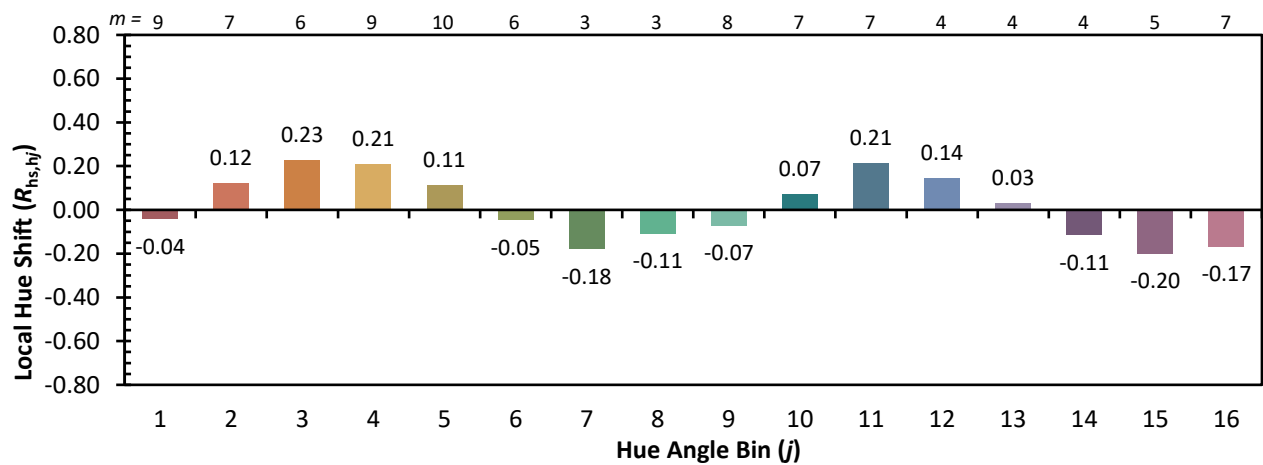
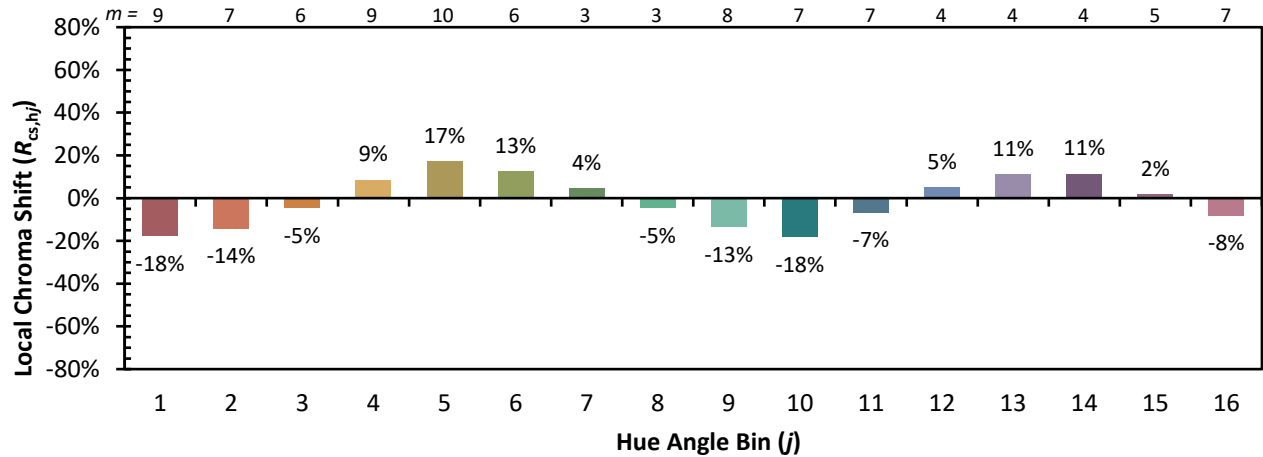


Individual Sample Fidelity Index ($R_{f,i}$)

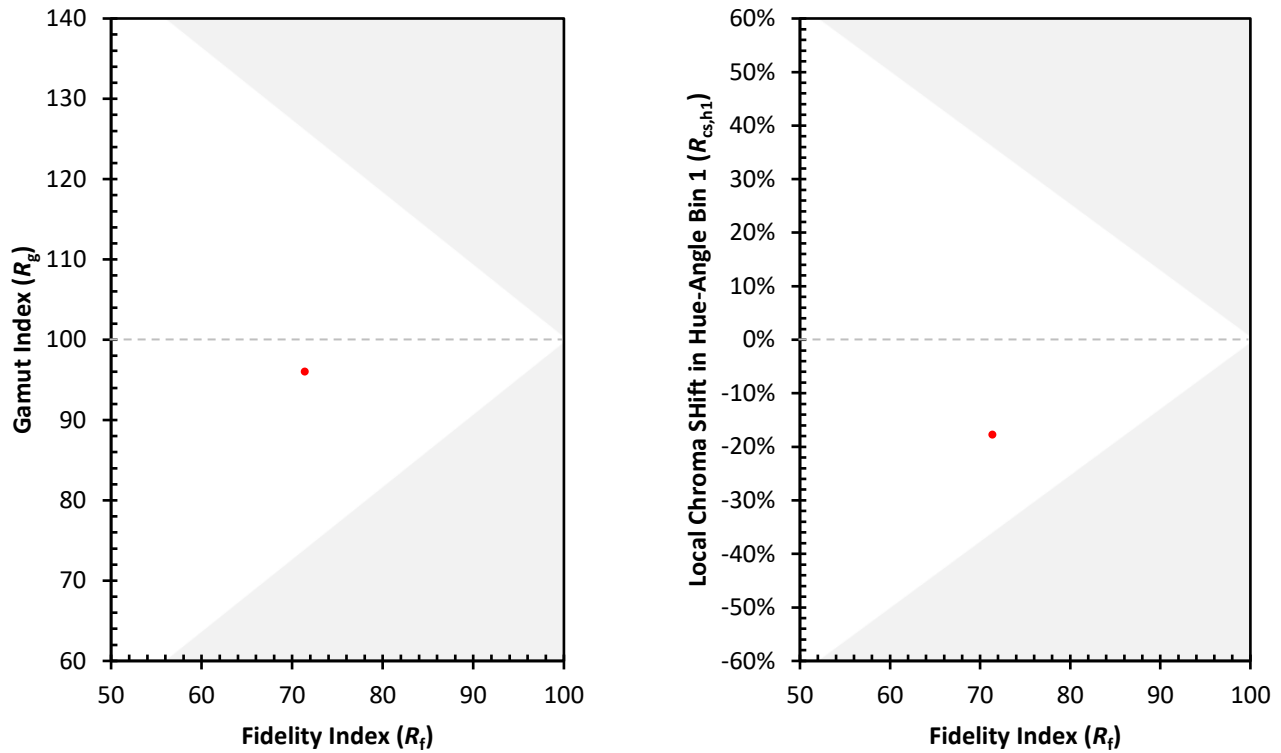
CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82 = 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)