

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: P1066904

Luminaire Tested: **NVN-SA5D-835-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1066904
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SA5D-835-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 5xLight Square PACKAGE
80CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23053.4 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 269.7
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

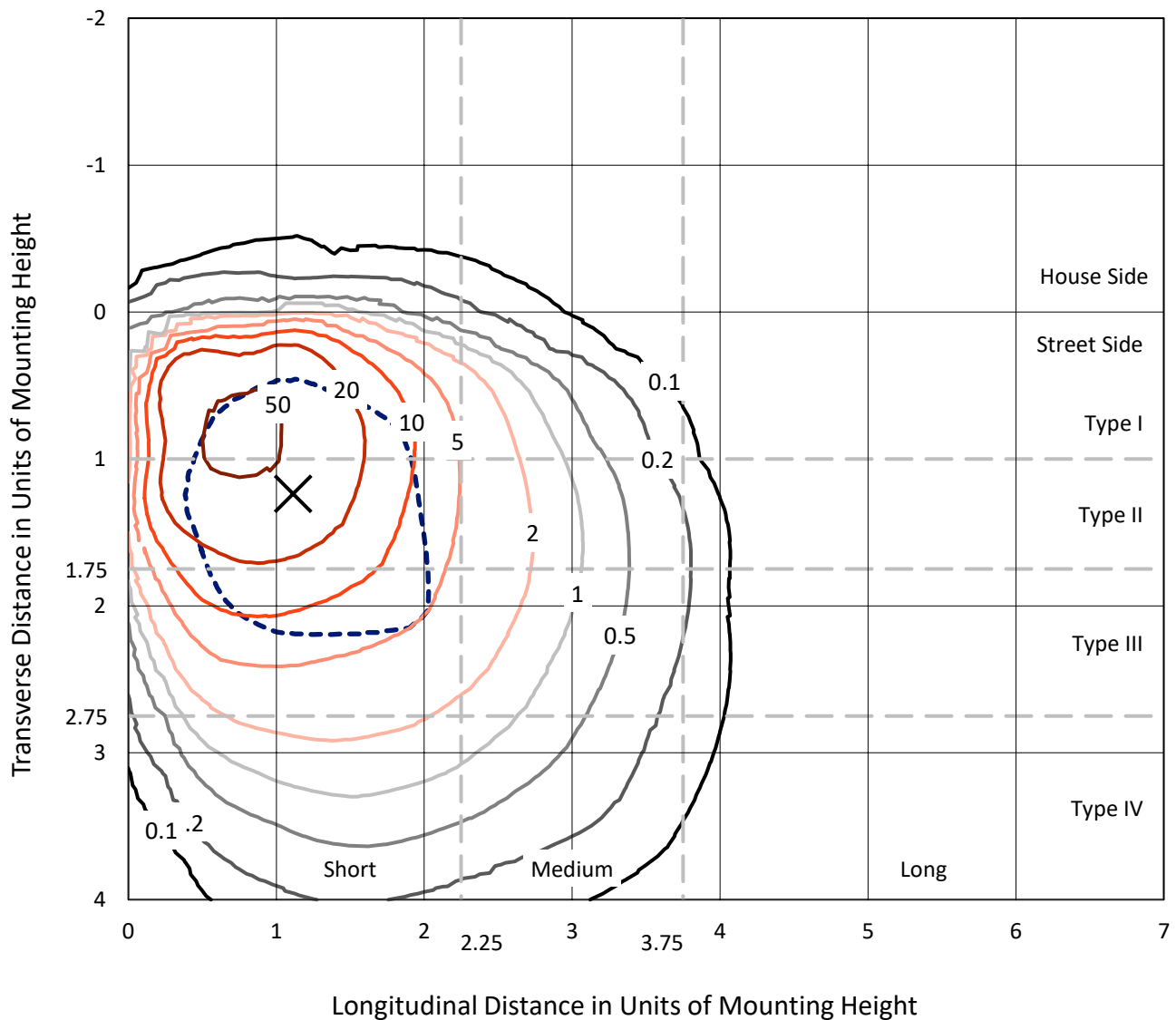


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

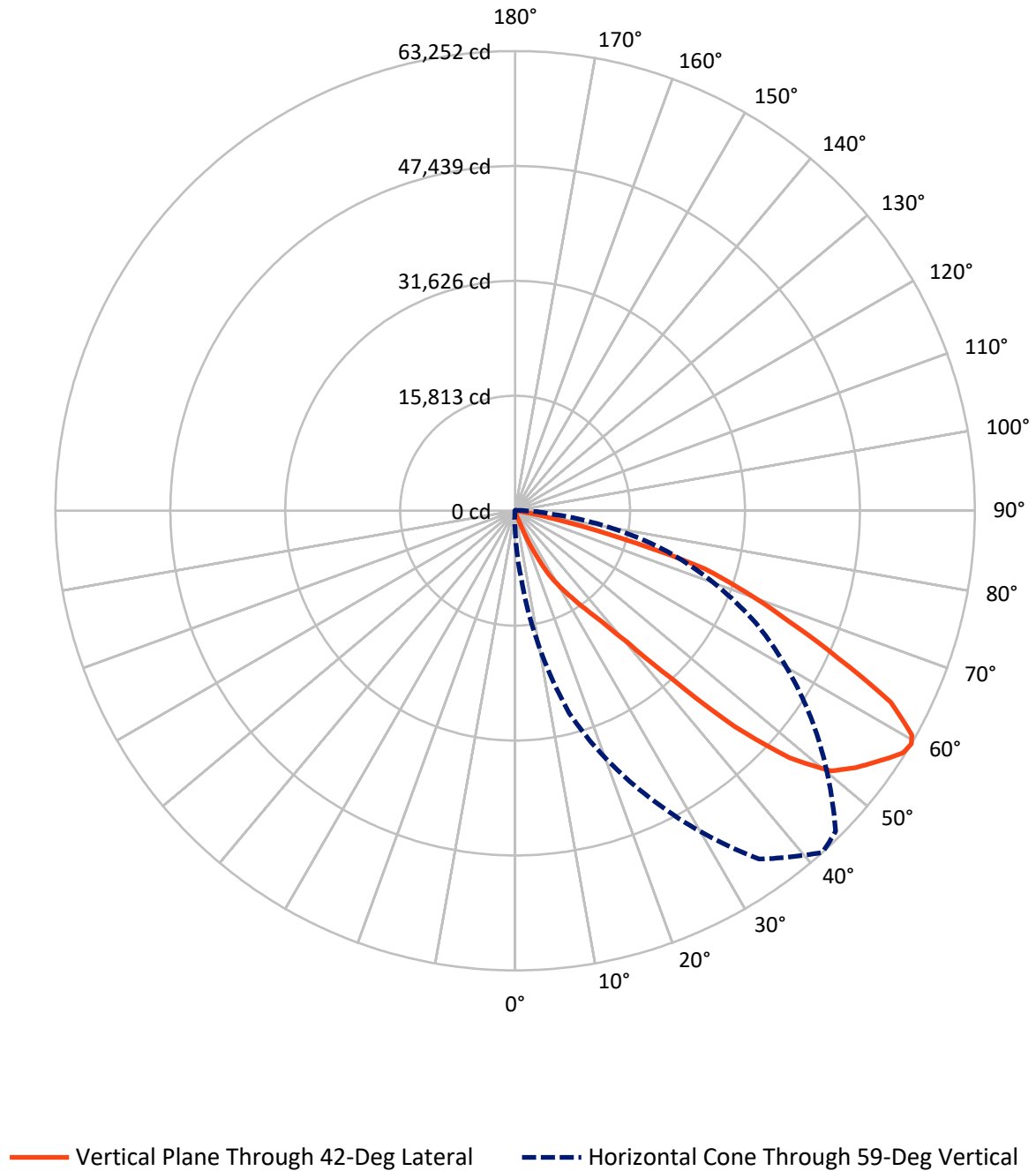


Based on 15 foot mounting height. Maximum calculated value = 68.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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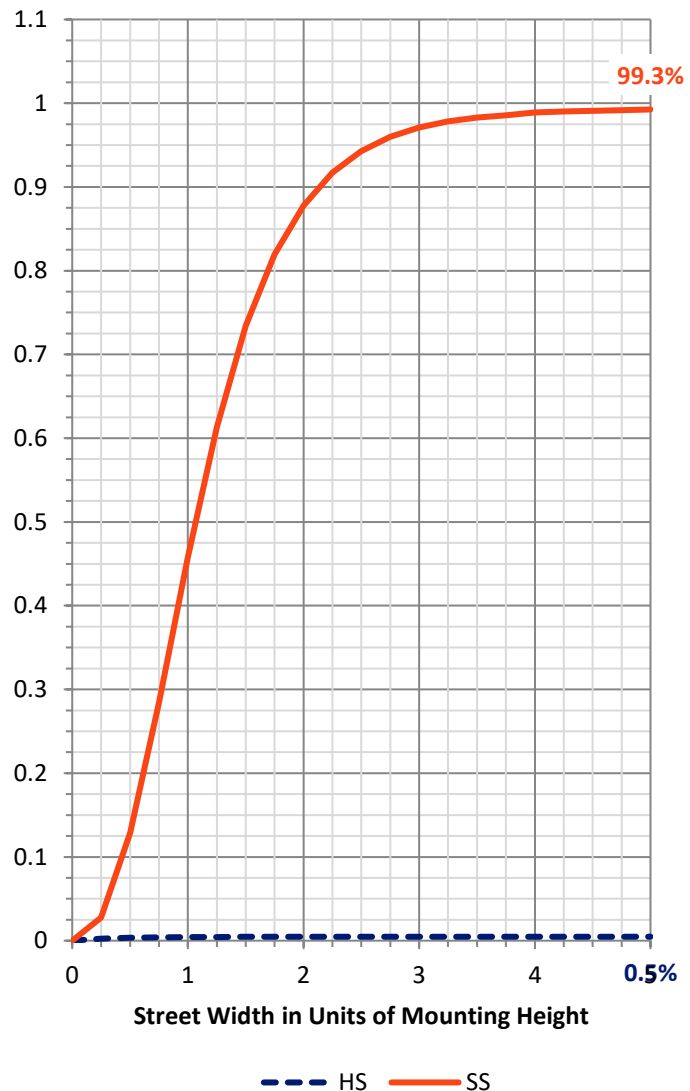
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	111.1	0.0	111.1
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	22942.3	0.0	22942.3
	% Fixture	99.5	0.0	99.5
Total	Lumens	23053.4	0.0	23053.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.8	0.0
10°-20°	33.6	0.1
20°-30°	430.0	1.9
30°-40°	1449.8	6.3
40°-50°	4378.9	19.0
50°-60°	7729.8	33.5
60°-70°	6806.2	29.5
70°-80°	2166.4	9.4
80°-90°	51.8	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°	23053.4	100.0
0°-180°	23053.4	100.0



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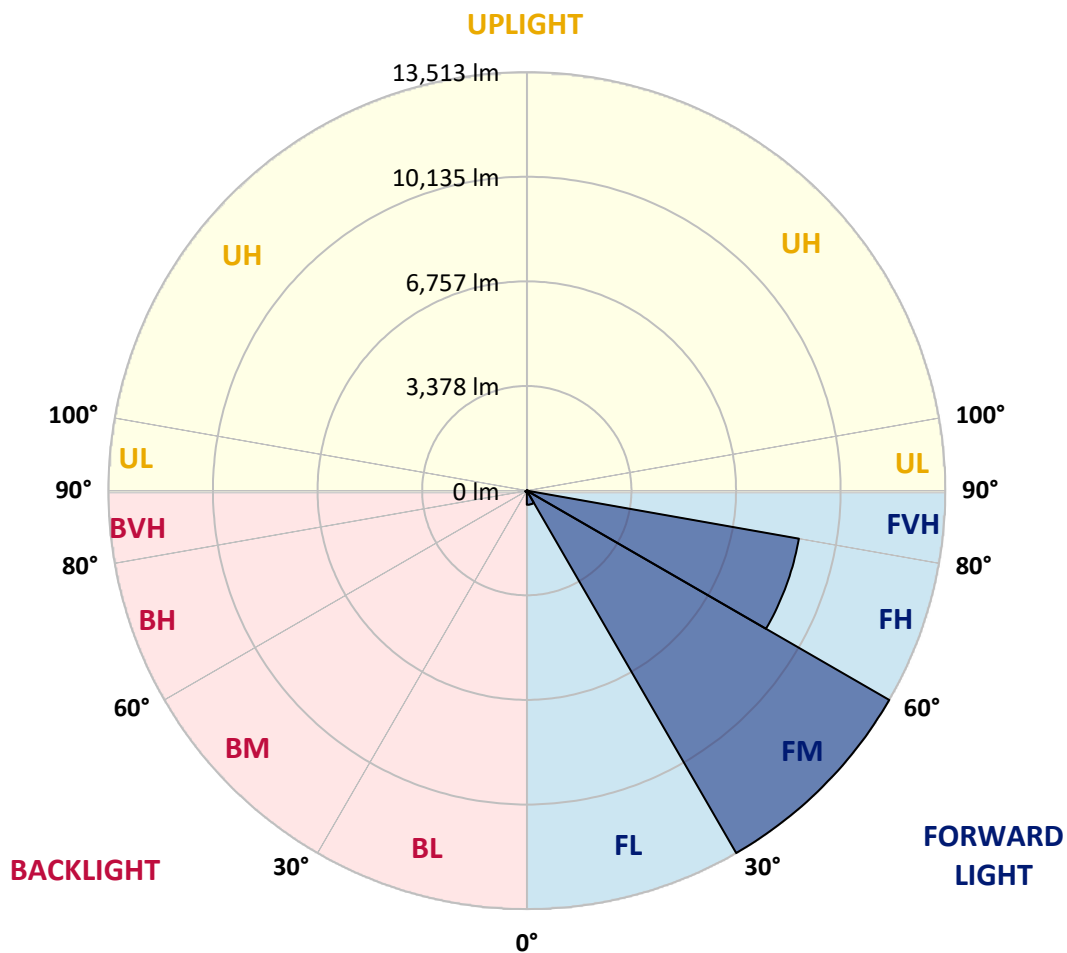
CATALOG NUMBER: NVN-SA5D-835-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	458.0	2.0			
FM	(30°-60°)	13513.1	58.6			
FH	(60°-80°)	8921.9	38.7			G4/12000
FVH	(80°-90°)	49.3	0.2			G1/100
BL	(0°-30°)	12.4	0.1	B0/110		
BM	(30°-60°)	45.4	0.2	B0/220		
BH	(60°-80°)	50.8	0.2	B0/110		G0/110
BVH	(80°-90°)	2.5	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°	42°	45°	55°	65°	75°	85°
0°	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
2.5°	101.2	101.2	94.0	86.7	79.5	72.3	72.3	72.3	65.1	65.1	57.8
5°	115.6	115.6	108.4	101.2	101.2	94.0	94.0	86.7	79.5	79.5	72.3
7.5°	122.9	122.9	122.9	122.9	115.6	115.6	115.6	108.4	101.2	94.0	86.7
10°	130.1	137.3	144.6	144.6	144.6	144.6	144.6	137.3	122.9	115.6	101.2
12.5°	144.6	151.8	166.2	180.7	180.7	187.9	180.7	173.5	159.0	137.3	115.6
15°	159.0	173.5	195.2	224.1	253.0	260.2	260.2	238.5	209.6	166.2	137.3
17.5°	180.7	202.4	260.2	354.2	455.4	534.9	534.9	477.0	332.5	216.8	159.0
20°	195.2	238.5	419.2	852.9	1301.0	1633.5	1568.5	1387.8	744.5	339.7	173.5
22.5°	216.8	303.6	889.0	2240.7	3469.4	4076.6	3932.0	2985.2	1669.7	607.2	209.6
25°	245.8	440.9	1763.6	4199.5	6447.4	7105.1	7011.2	5572.8	3043.0	1019.1	267.4
27.5°	303.6	650.5	2826.1	6367.9	9512.0	10075.8	10039.7	8160.4	4864.4	1640.8	346.9
30°	383.1	946.9	4192.2	8651.9	11543.1	12114.1	11933.4	10054.1	6563.0	2508.1	448.1
32.5°	477.0	1322.7	5428.2	10336.0	13415.2	14166.9	13950.0	11702.1	7929.1	3245.4	665.0
35°	621.6	1691.4	6649.8	11825.0	15576.3	16530.4	16169.0	13400.7	9107.3	4076.6	802.3
37.5°	693.9	1908.2	7770.1	13444.1	18004.9	19306.0	19031.3	15547.4	10307.1	5139.1	983.0
40°	701.1	2168.4	8933.8	15554.7	21438.2	23758.4	23266.9	19233.7	12540.6	6505.2	1264.9
42.5°	722.8	2558.7	10444.5	19154.2	28182.0	31514.1	30957.5	26013.6	17607.4	9244.6	1792.5
45°	824.0	3296.0	13523.6	25883.5	37441.0	42327.2	41683.9	35460.6	24683.6	14398.2	3057.4
47.5°	1178.2	4958.4	18922.9	33147.6	46909.7	50805.6	50646.6	42905.4	31094.9	19681.8	5182.5
50°	1893.7	7611.1	25066.7	39255.3	52937.9	56284.4	55886.9	46013.4	34752.2	23288.6	6642.5
52.5°	2529.8	10148.1	28926.5	41503.2	54737.6	58727.5	58243.2	47148.2	35713.5	24351.1	7047.3
55°	2688.8	11066.1	30075.7	42197.1	55930.3	60794.7	60093.6	47907.2	35836.4	23592.2	6375.1
57.5°	2609.3	10198.7	29331.2	42876.5	57592.7	62919.7	61987.3	49388.9	36248.4	22305.6	5305.4
59°	2472.0	9129.0	28868.6	43418.6	58510.7	63252.2	62377.6	49714.2	36523.1	21720.1	4654.8
60°	2313.0	8406.2	28507.2	43772.8	58452.8	62731.8	61828.3	49562.4	36631.5	21214.2	4344.0
62.5°	1785.3	6707.6	27986.8	43519.8	54802.7	57983.0	57469.8	45847.2	35041.3	19595.1	3426.1
65°	1387.8	5131.9	26078.6	38814.4	46635.1	48774.5	48615.5	38821.6	29490.2	16891.8	2472.0
67.5°	1098.7	3744.1	22052.6	31434.6	37520.5	40563.5	40447.9	31514.1	22385.1	12909.2	1778.1
70°	896.3	2667.1	15121.0	23700.6	30010.7	33841.5	33675.3	25363.1	16588.3	8189.3	1293.8
72.5°	758.9	1705.8	9172.3	17867.6	25045.0	27235.1	26750.8	20462.5	12063.5	4459.7	1026.4
75°	643.3	1048.1	4546.4	11138.3	14918.6	14904.1	14419.9	10834.8	6476.3	2182.9	816.8
77.5°	520.4	737.3	1785.3	3057.4	4705.4	5825.8	5731.8	3838.1	1937.1	636.1	506.0
80°	339.7	346.9	477.0	838.4	1293.8	1431.1	1626.3	1170.9	563.8	303.6	209.6
82.5°	151.8	166.2	216.8	274.7	274.7	253.0	224.1	166.2	122.9	101.2	50.6
85°	36.1	50.6	36.1	43.4	36.1	28.9	28.9	14.5	0.0	0.0	0.0
87.5°	7.2	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°	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
2.5°	57.8	57.8	57.8	50.6	50.6	50.6	43.4	43.4	43.4	36.1	36.1
5°	72.3	65.1	57.8	57.8	50.6	50.6	43.4	36.1	36.1	36.1	28.9
7.5°	79.5	72.3	65.1	57.8	50.6	43.4	43.4	36.1	28.9	28.9	28.9
10°	94.0	86.7	72.3	57.8	50.6	43.4	36.1	36.1	28.9	21.7	21.7
12.5°	108.4	94.0	79.5	65.1	50.6	43.4	36.1	36.1	28.9	21.7	14.5
15°	122.9	108.4	86.7	65.1	50.6	43.4	36.1	36.1	21.7	14.5	7.2
17.5°	137.3	115.6	86.7	72.3	50.6	43.4	36.1	28.9	14.5	7.2	0.0
20°	144.6	122.9	94.0	72.3	50.6	43.4	36.1	21.7	7.2	0.0	0.0
22.5°	159.0	137.3	101.2	72.3	50.6	36.1	21.7	7.2	0.0	0.0	0.0
25°	187.9	144.6	101.2	72.3	50.6	36.1	14.5	0.0	0.0	0.0	0.0
27.5°	209.6	159.0	101.2	72.3	50.6	28.9	7.2	0.0	0.0	0.0	0.0
30°	245.8	173.5	108.4	72.3	50.6	21.7	7.2	0.0	0.0	0.0	0.0
32.5°	303.6	187.9	108.4	72.3	43.4	21.7	0.0	0.0	0.0	0.0	0.0
35°	368.6	216.8	108.4	72.3	43.4	21.7	0.0	0.0	0.0	0.0	0.0
37.5°	375.9	231.3	108.4	72.3	43.4	14.5	0.0	0.0	0.0	0.0	0.0
40°	390.3	216.8	115.6	72.3	43.4	14.5	0.0	0.0	0.0	0.0	0.0
42.5°	448.1	202.4	122.9	72.3	43.4	14.5	0.0	0.0	0.0	0.0	0.0
45°	665.0	209.6	122.9	79.5	43.4	21.7	0.0	0.0	0.0	0.0	0.0
47.5°	1156.5	216.8	115.6	79.5	43.4	21.7	0.0	0.0	0.0	0.0	0.0
50°	1481.7	253.0	115.6	86.7	50.6	14.5	0.0	0.0	0.0	0.0	0.0
52.5°	1575.7	296.3	115.6	94.0	65.1	7.2	0.0	0.0	0.0	0.0	0.0
55°	1532.3	346.9	122.9	101.2	79.5	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1416.7	375.9	130.1	108.4	86.7	0.0	0.0	0.0	0.0	0.0	0.0
59°	1293.8	397.5	151.8	115.6	86.7	0.0	0.0	0.0	0.0	0.0	0.0
60°	1192.6	419.2	159.0	122.9	86.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	961.3	448.1	173.5	144.6	72.3	0.0	0.0	0.0	0.0	0.0	0.0
65°	838.4	469.8	180.7	159.0	65.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	766.2	484.3	195.2	166.2	57.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	708.3	477.0	209.6	159.0	50.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	643.3	455.4	253.0	144.6	43.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	578.2	412.0	274.7	130.1	28.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	419.2	346.9	253.0	115.6	14.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	180.7	187.9	180.7	86.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	36.1	43.4	36.1	21.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
2.5°	36.1	36.1	36.1	36.1	43.4	43.4	57.8	72.3	86.7	94.0	94.0
5°	28.9	28.9	28.9	28.9	28.9	36.1	43.4	57.8	79.5	86.7	86.7
7.5°	21.7	21.7	21.7	21.7	21.7	21.7	36.1	50.6	72.3	79.5	86.7
10°	21.7	14.5	14.5	7.2	7.2	14.5	21.7	43.4	65.1	72.3	79.5
12.5°	14.5	7.2	7.2	0.0	0.0	7.2	14.5	36.1	57.8	65.1	72.3
15°	7.2	0.0	0.0	0.0	0.0	0.0	7.2	28.9	50.6	57.8	72.3
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.7	43.4	57.8	65.1
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5	36.1	50.6	57.8
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	28.9	43.4	50.6
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.7	28.9	36.1
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5	21.7	28.9
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5	21.7	28.9
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	14.5	21.7
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	14.5	21.7
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	14.5	14.5
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	14.5
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	14.5
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	14.5
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	14.5
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	14.5
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	14.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	14.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	7.2
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°	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
2.5°	101.2	101.2	94.0	86.7	86.7	86.7	94.0	101.2	101.2	101.2
5°	94.0	94.0	86.7	86.7	86.7	86.7	94.0	108.4	115.6	115.6
7.5°	94.0	94.0	86.7	86.7	86.7	86.7	94.0	108.4	115.6	122.9
10°	86.7	86.7	86.7	86.7	79.5	86.7	94.0	108.4	130.1	130.1
12.5°	86.7	86.7	86.7	86.7	79.5	86.7	101.2	115.6	137.3	144.6
15°	86.7	86.7	86.7	79.5	79.5	86.7	101.2	122.9	144.6	159.0
17.5°	79.5	86.7	86.7	79.5	79.5	86.7	101.2	122.9	159.0	180.7
20°	72.3	79.5	86.7	79.5	79.5	79.5	101.2	122.9	166.2	195.2
22.5°	65.1	72.3	79.5	79.5	72.3	79.5	101.2	130.1	180.7	216.8
25°	57.8	65.1	65.1	72.3	72.3	79.5	101.2	130.1	187.9	245.8
27.5°	43.4	50.6	57.8	65.1	65.1	79.5	101.2	137.3	202.4	303.6
30°	36.1	43.4	50.6	57.8	65.1	79.5	101.2	137.3	216.8	383.1
32.5°	36.1	43.4	50.6	57.8	65.1	72.3	101.2	144.6	238.5	477.0
35°	28.9	36.1	43.4	57.8	57.8	72.3	101.2	144.6	260.2	621.6
37.5°	28.9	36.1	43.4	57.8	57.8	72.3	101.2	144.6	318.0	693.9
40°	21.7	28.9	36.1	57.8	57.8	72.3	108.4	151.8	325.3	701.1
42.5°	21.7	28.9	36.1	50.6	57.8	72.3	108.4	151.8	303.6	722.8
45°	21.7	28.9	36.1	57.8	65.1	79.5	108.4	159.0	296.3	824.0
47.5°	21.7	28.9	36.1	57.8	72.3	79.5	108.4	159.0	303.6	1178.2
50°	21.7	28.9	36.1	57.8	79.5	79.5	108.4	159.0	332.5	1893.7
52.5°	14.5	21.7	28.9	50.6	65.1	86.7	115.6	151.8	354.2	2529.8
55°	14.5	14.5	21.7	43.4	57.8	94.0	122.9	151.8	412.0	2688.8
57.5°	14.5	14.5	21.7	36.1	50.6	101.2	130.1	151.8	477.0	2609.3
59°	14.5	14.5	14.5	36.1	43.4	101.2	130.1	159.0	484.3	2472.0
60°	14.5	14.5	14.5	28.9	43.4	101.2	137.3	166.2	491.5	2313.0
62.5°	7.2	7.2	7.2	28.9	36.1	101.2	151.8	202.4	506.0	1785.3
65°	14.5	14.5	7.2	21.7	36.1	86.7	173.5	216.8	513.2	1387.8
67.5°	14.5	14.5	14.5	28.9	36.1	86.7	180.7	224.1	513.2	1098.7
70°	14.5	14.5	14.5	28.9	43.4	86.7	180.7	231.3	506.0	896.3
72.5°	14.5	14.5	14.5	28.9	43.4	79.5	166.2	238.5	484.3	758.9
75°	14.5	14.5	14.5	21.7	36.1	72.3	159.0	260.2	440.9	643.3
77.5°	14.5	14.5	14.5	14.5	28.9	57.8	144.6	289.1	390.3	520.4
80°	21.7	14.5	14.5	14.5	21.7	50.6	137.3	281.9	325.3	339.7
82.5°	21.7	14.5	14.5	7.2	14.5	36.1	108.4	216.8	166.2	151.8
85°	14.5	14.5	14.5	7.2	7.2	21.7	50.6	65.1	50.6	36.1
87.5°	14.5	14.5	14.5	7.2	7.2	7.2	7.2	7.2	7.2	7.2
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: SP1-2407-184-10

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-835-U-5WQ

Data in this report applies to families of products including GSS-SB1A-835-U-5WQ

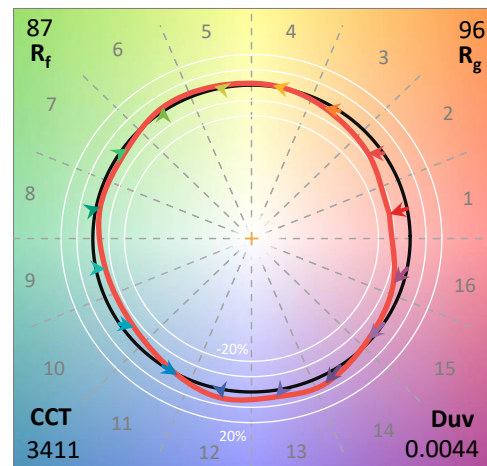
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-10
 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-835-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K): 3411
 CIE u' : 0.2360
 CIE v' : 0.5189
 Duv: 0.0044
 CIE x: 0.4154
 CIE y: 0.4059
 CIE z: 0.1787
 Peak Wavelength (nm): 601
 Dominant Wavelength (nm): 579
 Purity: 46.51914
 R_f: 86.6
 R_g: 95.9

CRI (Ra): 83.5
 R1: 81.1
 R2: 88.9
 R3: 97.2
 R4: 83.8
 R5: 81.7
 R6: 86.9
 R7: 86.1
 R8: 62.2
 R9: 6.3
 R10: 75.4
 R11: 84.1
 R12: 69.7
 R13: 82.8
 R14: 98.5
 R15: 72.6



Test Conditions

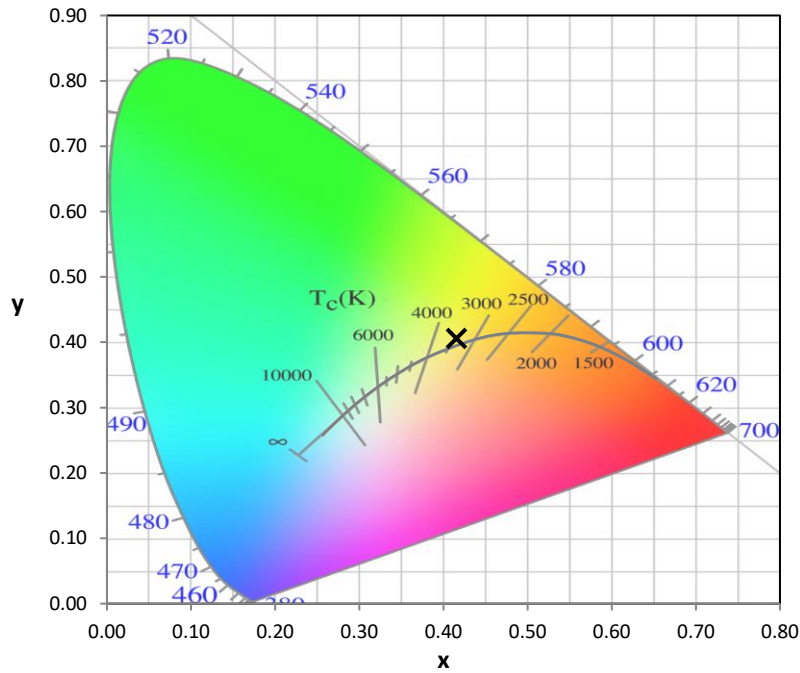
Stabilization Time: 35M
 Operation Time: 1H 35M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-10

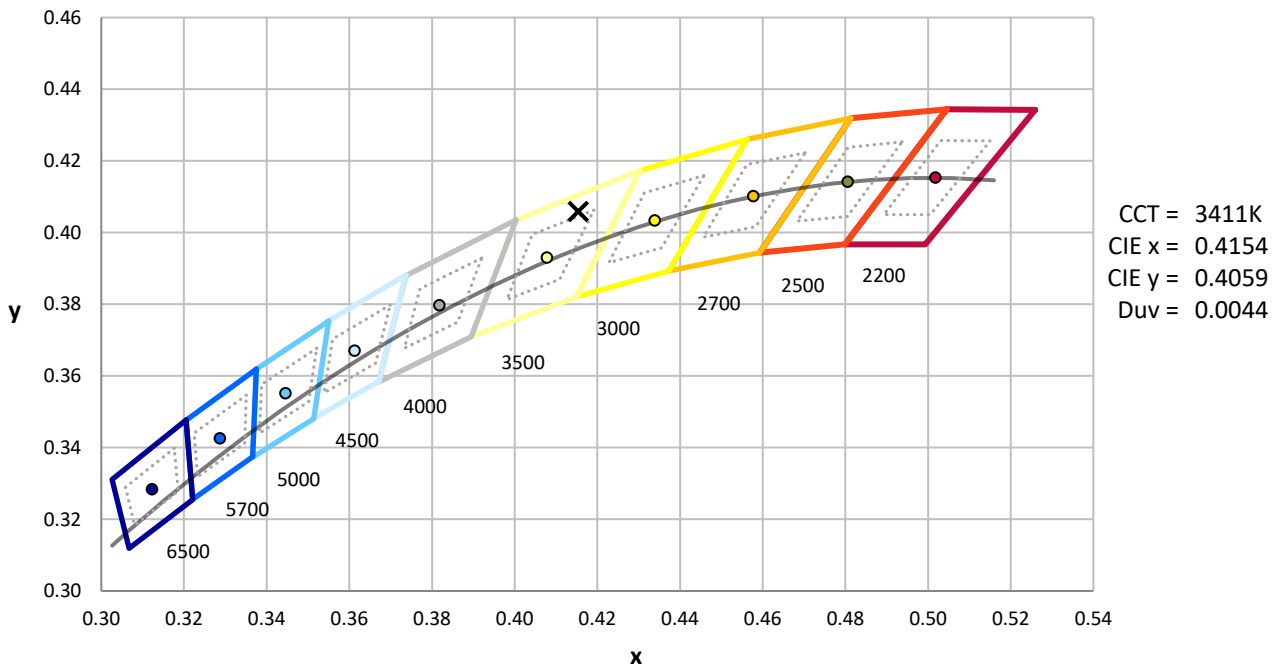
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



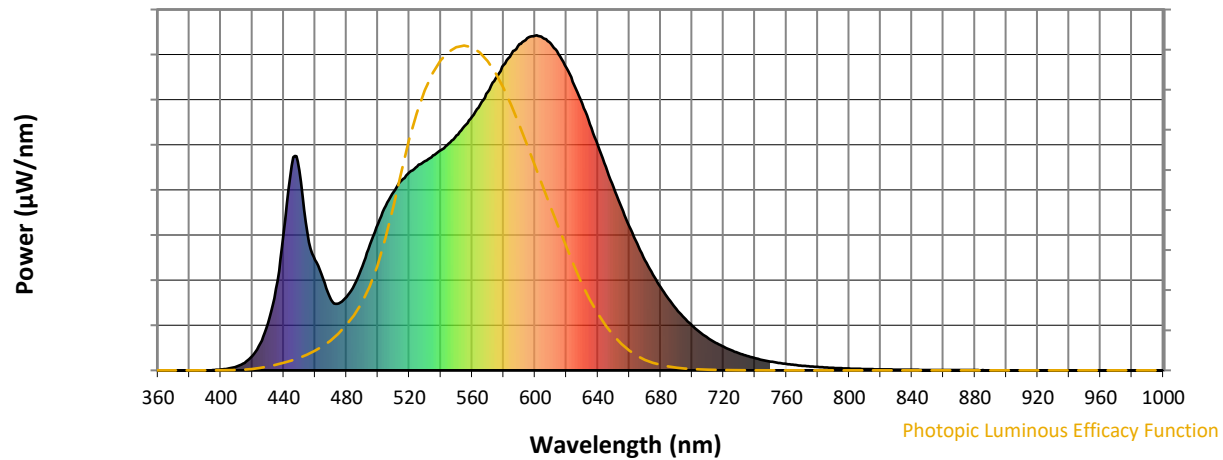
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-10

Photopic Flux vs. Wavelength

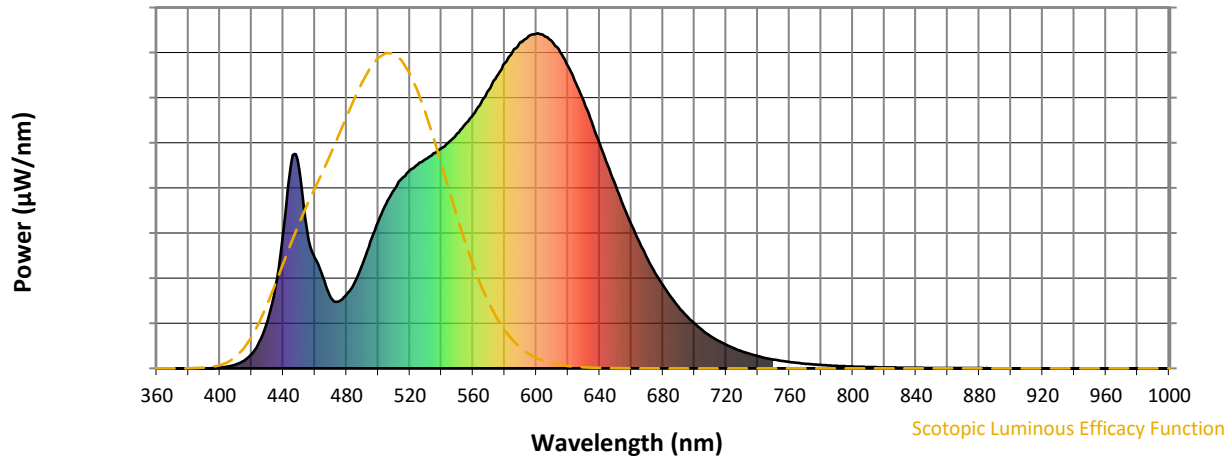


Photopic Lumens: NR

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

Scotopic Flux vs. Wavelength



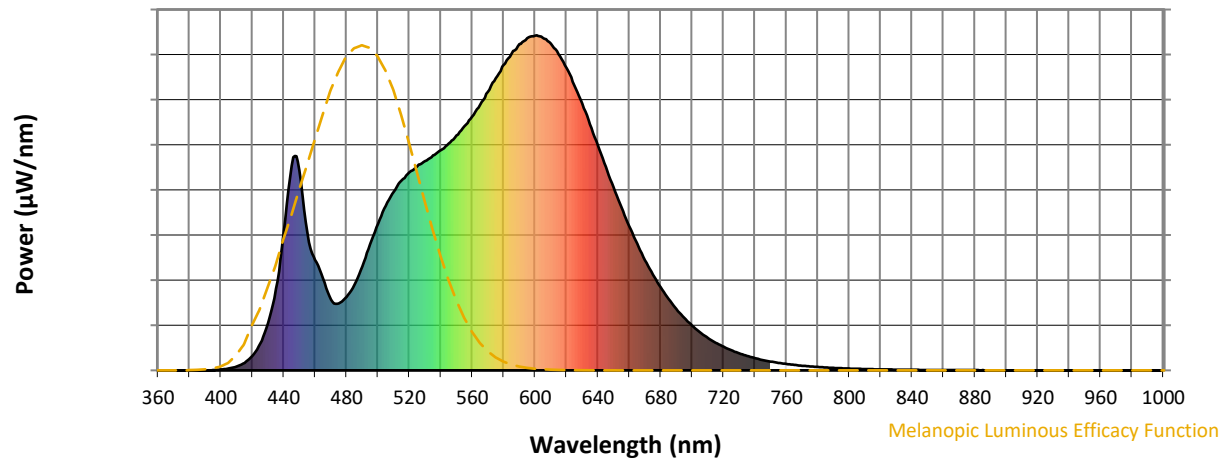
Scotopic Lumens: NR

S/P: 1.48

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.88

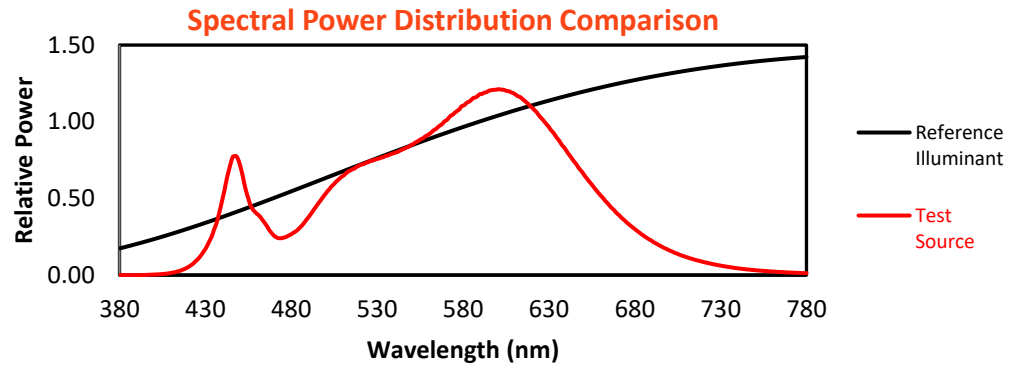
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

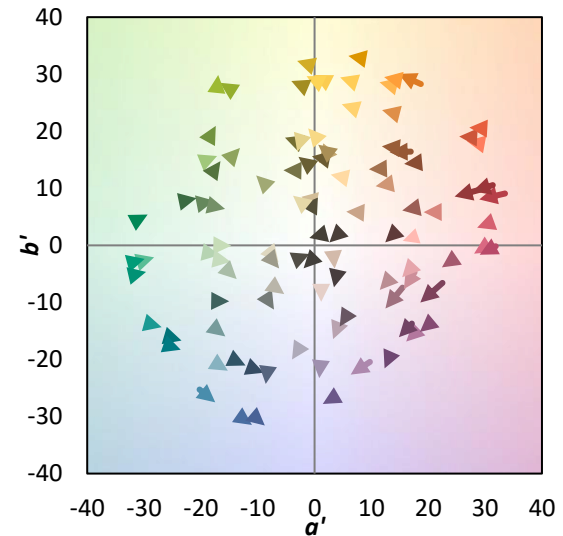
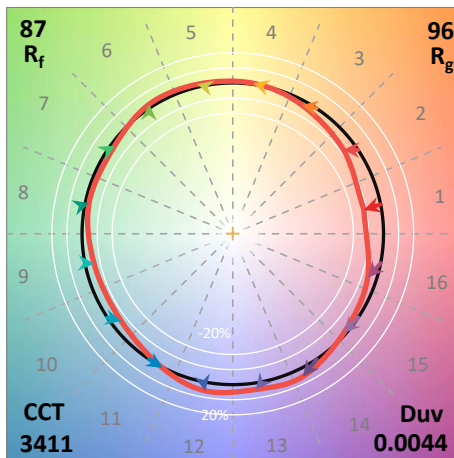
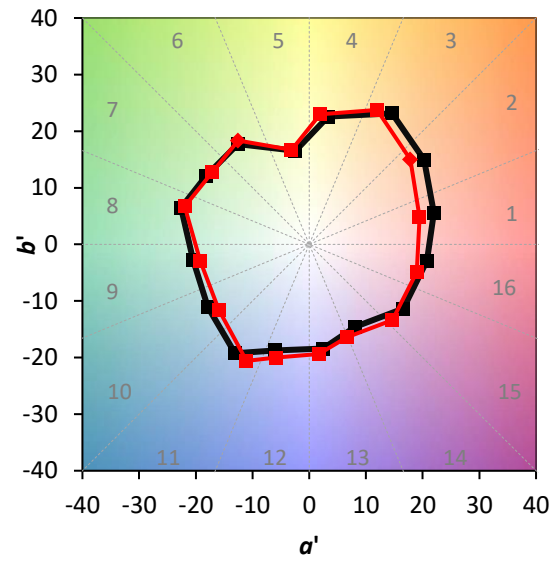
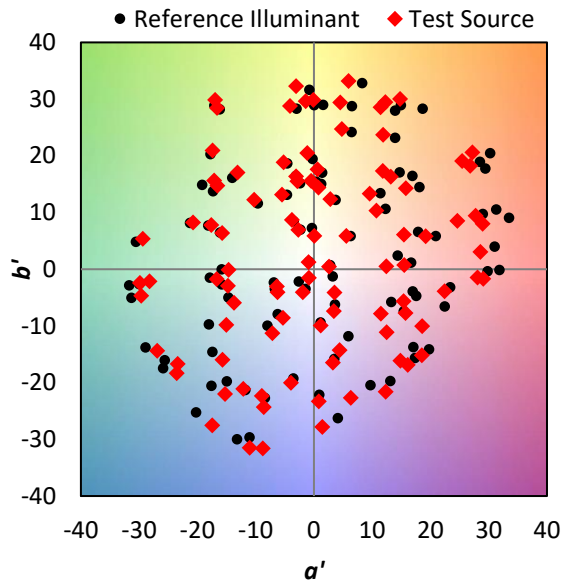
TM-30-18

Summary

$R_f = 86.6$
 $R_g = 95.9$
 $CIE\ R_a = 83.5$
 $R_9 = 6.3$

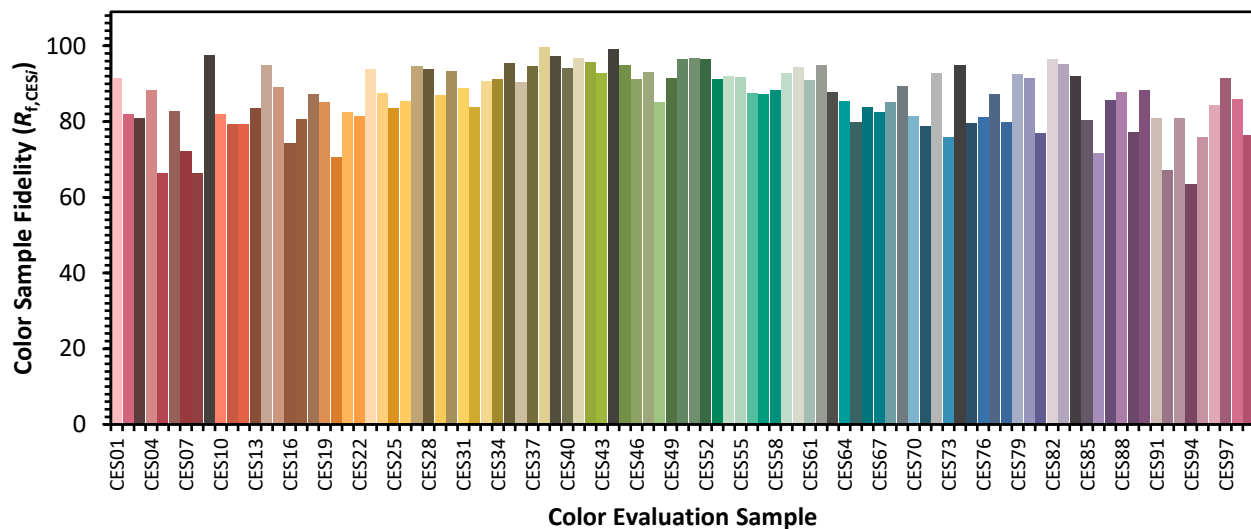


Color Vector Graphics

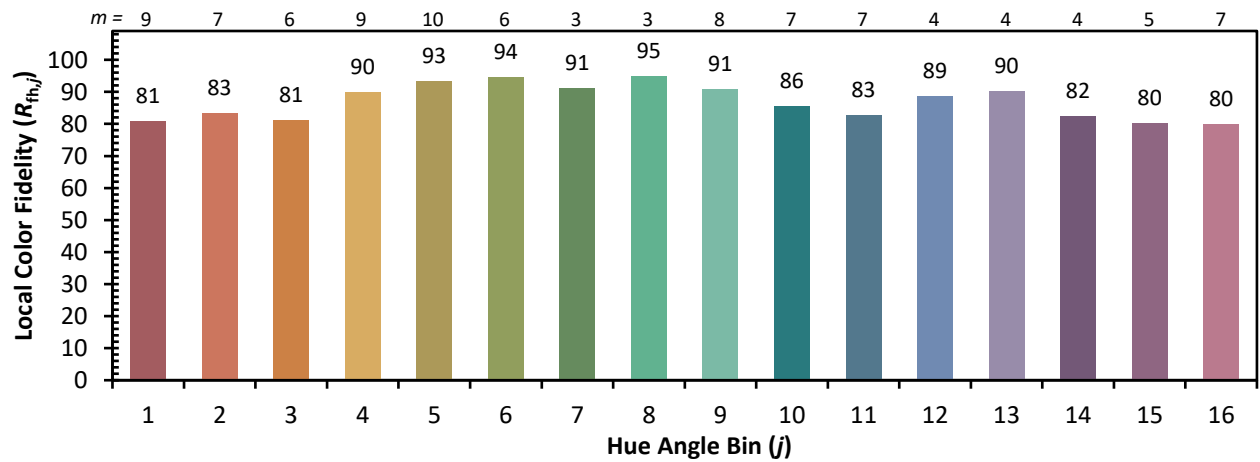
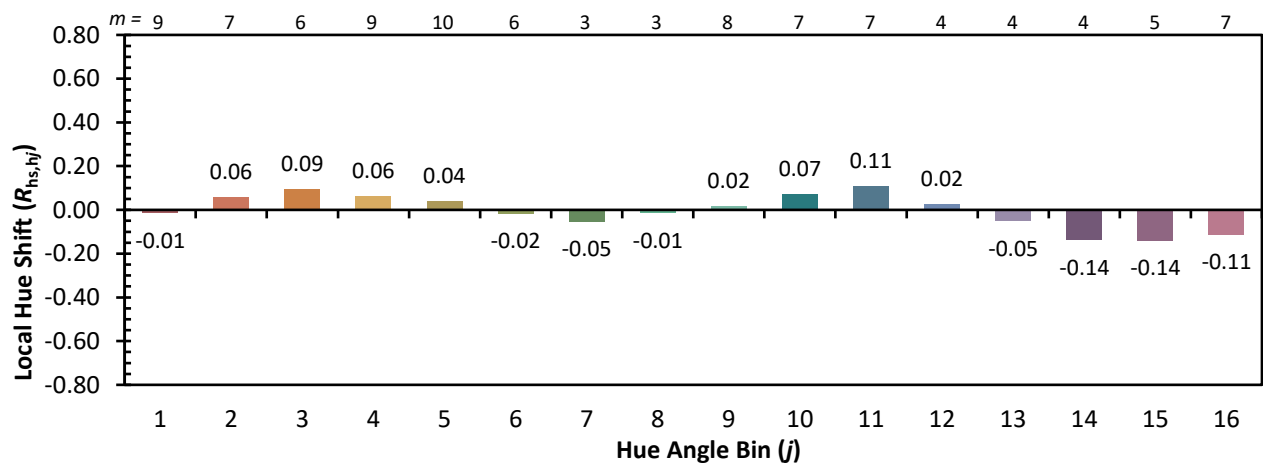
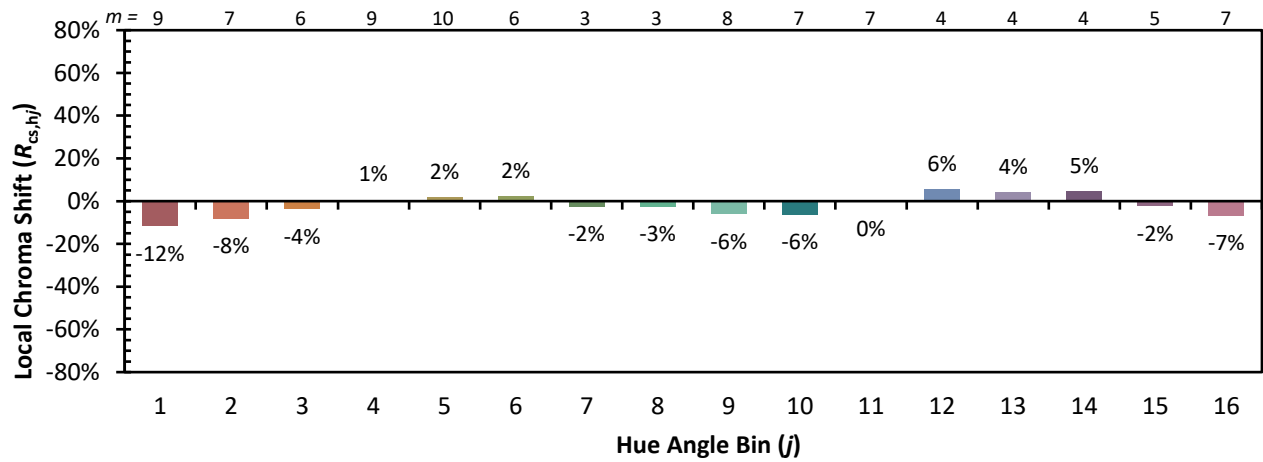


Individual Sample Fidelity Index ($R_{f,i}$)

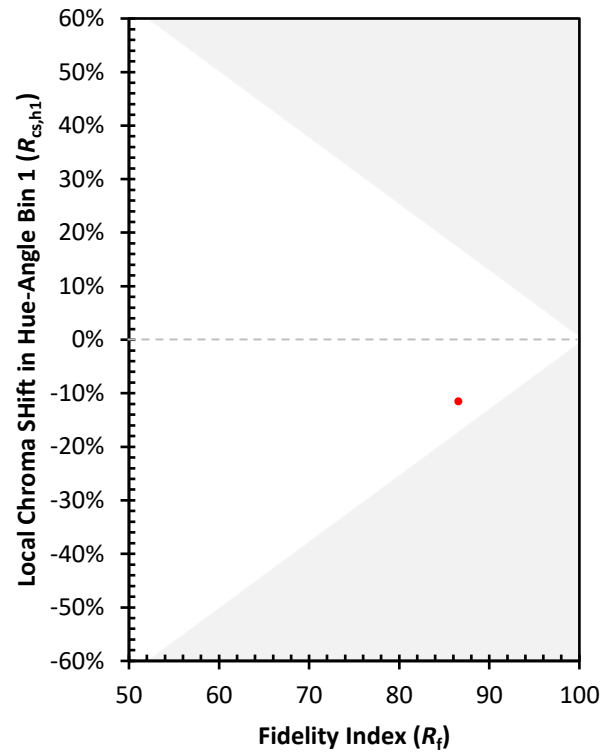
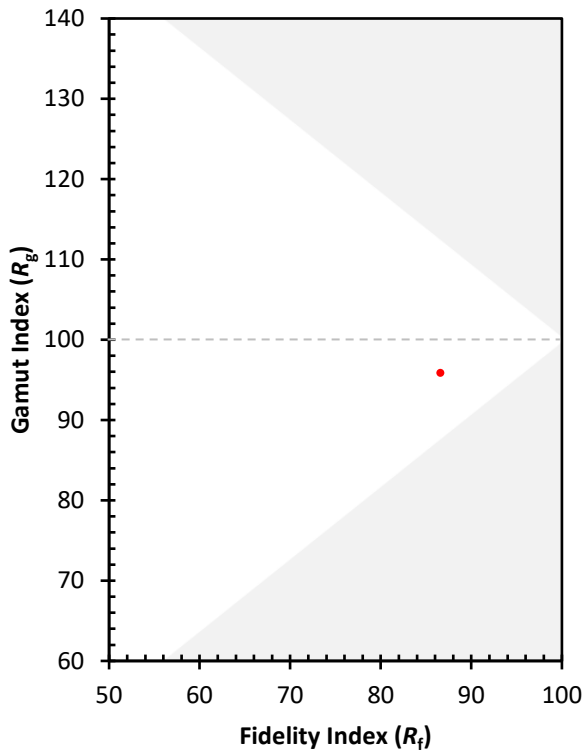
CES01 = 86	CES26 = 85	CES51 = 97	CES76 = 81
CES02 = 62	CES27 = 95	CES52 = 96	CES77 = 87
CES03 = 31	CES28 = 94	CES53 = 91	CES78 = 80
CES04 = 70	CES29 = 87	CES54 = 92	CES79 = 93
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 91
CES06 = 51	CES31 = 89	CES56 = 88	CES81 = 77
CES07 = 41	CES32 = 84	CES57 = 87	CES82 = 96
CES08 = 40	CES33 = 91	CES58 = 88	CES83 = 95
CES09 = 29	CES34 = 91	CES59 = 93	CES84 = 92
CES10 = 75	CES35 = 95	CES60 = 94	CES85 = 80
CES11 = 58	CES36 = 90	CES61 = 91	CES86 = 72
CES12 = 64	CES37 = 95	CES62 = 95	CES87 = 86
CES13 = 43	CES38 = 100	CES63 = 88	CES88 = 88
CES14 = 74	CES39 = 97	CES64 = 85	CES89 = 77
CES15 = 71	CES40 = 94	CES65 = 80	CES90 = 88
CES16 = 47	CES41 = 97	CES66 = 84	CES91 = 81
CES17 = 49	CES42 = 96	CES67 = 82	CES92 = 67
CES18 = 56	CES43 = 93	CES68 = 85	CES93 = 81
CES19 = 72	CES44 = 99	CES69 = 89	CES94 = 63
CES20 = 66	CES45 = 95	CES70 = 81	CES95 = 76
CES21 = 86	CES46 = 91	CES71 = 79	CES96 = 84
CES22 = 78	CES47 = 93	CES72 = 93	CES97 = 92
CES23 = 91	CES48 = 85	CES73 = 76	CES98 = 86
CES24 = 90	CES49 = 92	CES74 = 95	CES99 = 77
CES25 = 72	CES50 = 96	CES75 = 80	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)