

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: LUMARK

Report Number: P1067971

Luminaire Tested: **NAV-SA2C-735-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067971
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA2C-735-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 2xLight Square PACKAGE
70CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8978.3 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 96.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



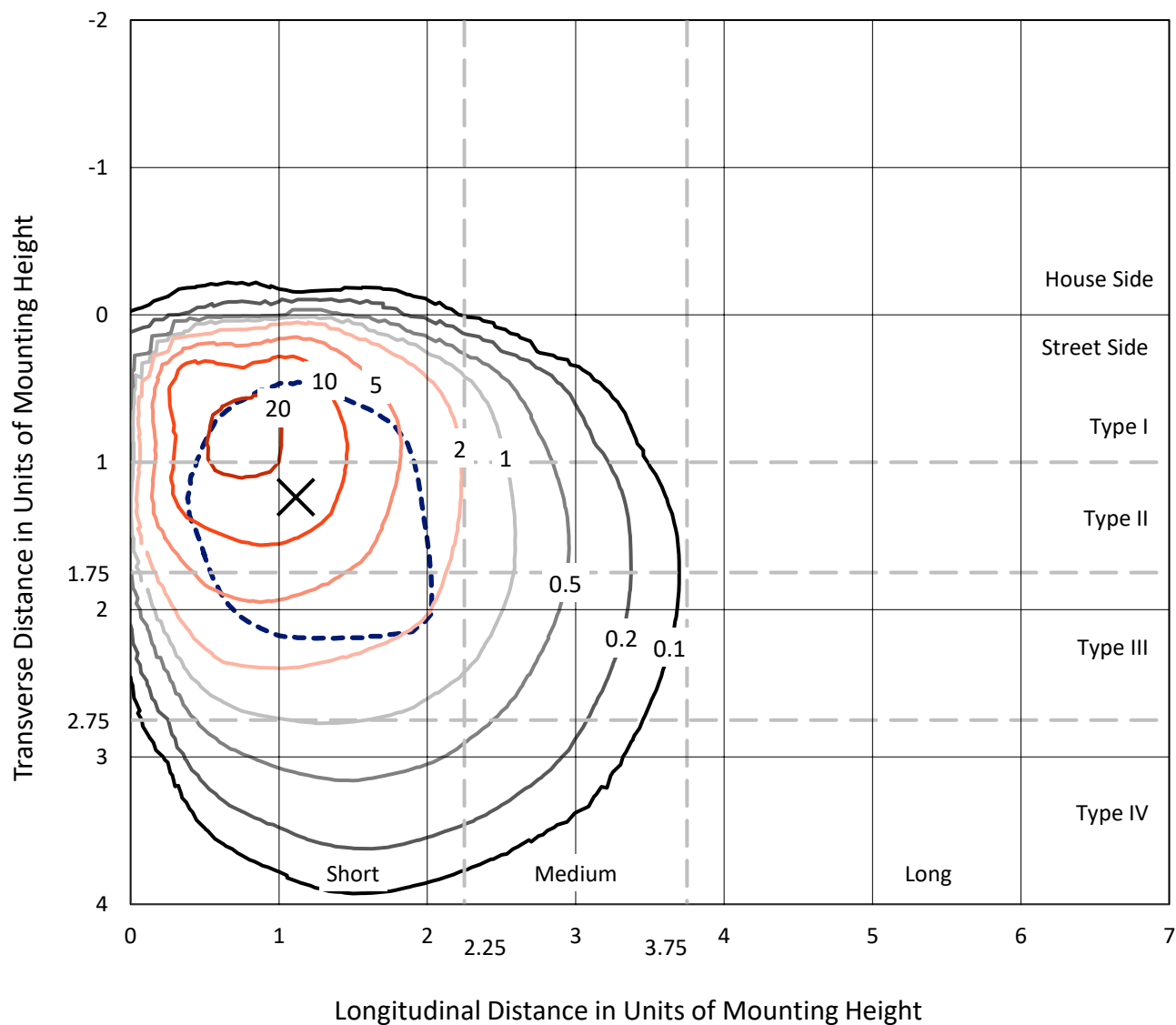
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

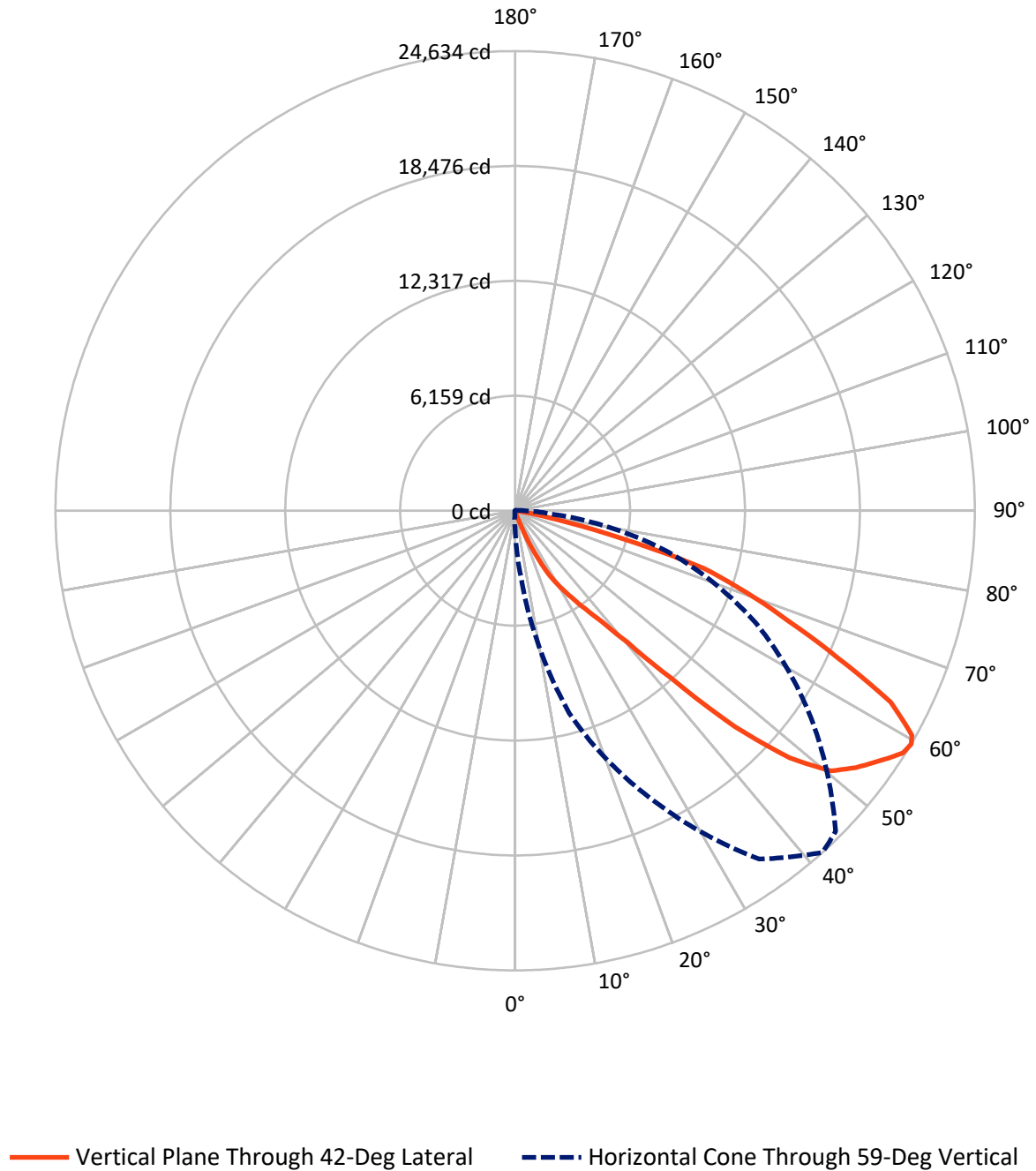


Based on 15 foot mounting height. Maximum calculated value = 26.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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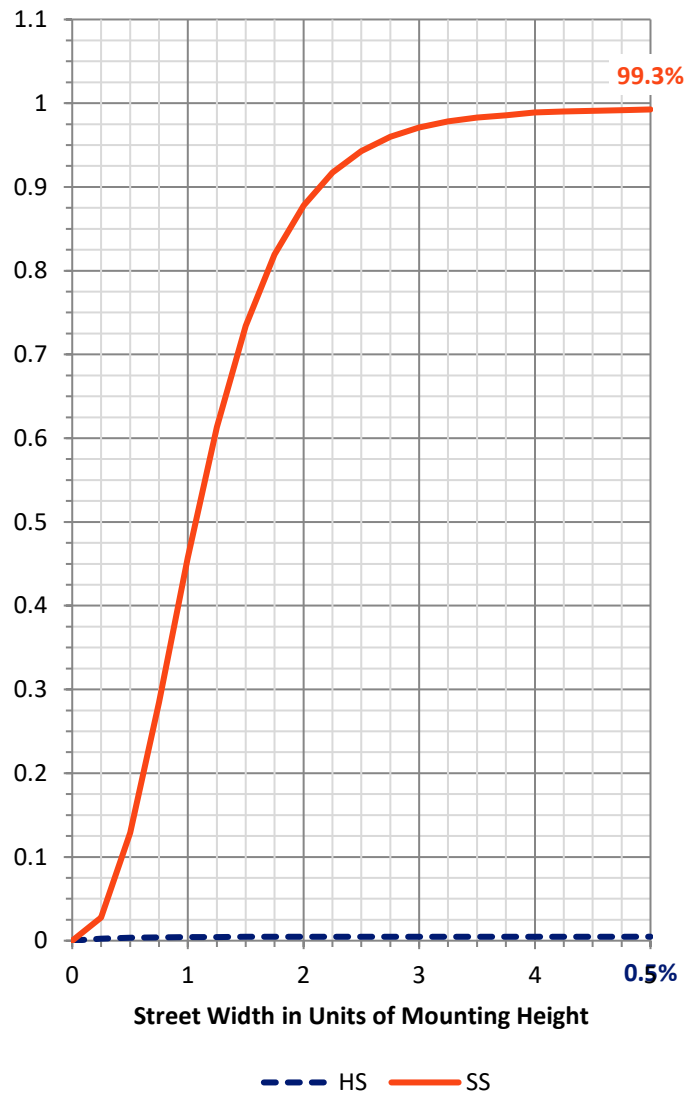
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	43.3	0.0	43.3
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	8935.1	0.0	8935.1
	% Fixture	99.5	0.0	99.5
Total	Lumens	8978.3	0.0	8978.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.6	0.0
10°-20°	13.1	0.1
20°-30°	167.5	1.9
30°-40°	564.6	6.3
40°-50°	1705.4	19.0
50°-60°	3010.4	33.5
60°-70°	2650.7	29.5
70°-80°	843.7	9.4
80°-90°	20.2	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°	8978.3	100.0
0°-180°	8978.3	100.0



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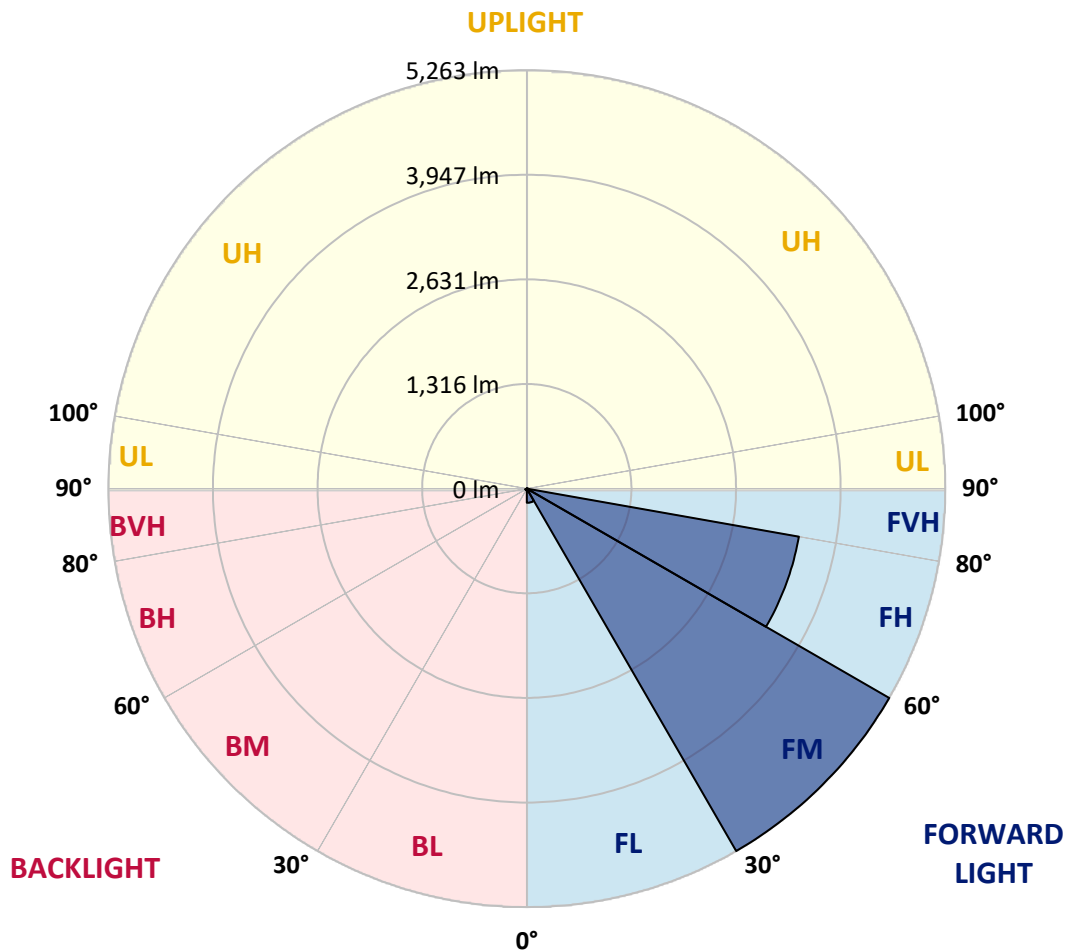
CATALOG NUMBER: NAV-SA2C-735-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	178.4	2.0			
FM	(30°-60°)	5262.8	58.6			
FH	(60°-80°)	3474.7	38.7			G2/5000
FVH	(80°-90°)	19.2	0.2			G1/100
BL	(0°-30°)	4.8	0.1	B0/110		
BM	(30°-60°)	17.7	0.2	B0/220		
BH	(60°-80°)	19.8	0.2	B0/110		G0/110
BVH	(80°-90°)	1.0	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3
2.5°	39.4	39.4	36.6	33.8	31.0	28.2	28.2	28.2	25.3	25.3	22.5
5°	45.0	45.0	42.2	39.4	39.4	36.6	36.6	33.8	31.0	31.0	28.2
7.5°	47.9	47.9	47.9	47.9	45.0	45.0	45.0	42.2	39.4	36.6	33.8
10°	50.7	53.5	56.3	56.3	56.3	56.3	56.3	53.5	47.9	45.0	39.4
12.5°	56.3	59.1	64.7	70.4	70.4	73.2	70.4	67.6	61.9	53.5	45.0
15°	61.9	67.6	76.0	87.3	98.5	101.3	101.3	92.9	81.6	64.7	53.5
17.5°	70.4	78.8	101.3	137.9	177.3	208.3	208.3	185.8	129.5	84.5	61.9
20°	76.0	92.9	163.3	332.2	506.7	636.2	610.9	540.5	289.9	132.3	67.6
22.5°	84.5	118.2	346.2	872.7	1351.2	1587.7	1531.4	1162.6	650.3	236.5	81.6
25°	95.7	171.7	686.9	1635.5	2511.0	2767.2	2730.6	2170.4	1185.1	396.9	104.2
27.5°	118.2	253.4	1100.7	2480.0	3704.5	3924.1	3910.0	3178.1	1894.5	639.0	135.1
30°	149.2	368.8	1632.7	3369.6	4495.6	4717.9	4647.6	3915.7	2556.0	976.8	174.5
32.5°	185.8	515.1	2114.1	4025.5	5224.6	5517.4	5433.0	4557.5	3088.1	1263.9	259.0
35°	242.1	658.7	2589.8	4605.3	6066.3	6437.9	6297.2	5219.0	3546.9	1587.7	312.5
37.5°	270.2	743.2	3026.1	5235.9	7012.2	7518.9	7411.9	6055.1	4014.2	2001.5	382.8
40°	273.1	844.5	3479.3	6057.9	8349.3	9252.9	9061.5	7490.7	4884.0	2533.5	492.6
42.5°	281.5	996.5	4067.7	7459.8	10975.7	12273.4	12056.7	10131.2	6857.4	3600.4	698.1
45°	320.9	1283.6	5266.9	10080.5	14581.7	16484.7	16234.1	13810.4	9613.2	5607.5	1190.7
47.5°	458.8	1931.1	7369.7	12909.6	18269.4	19786.7	19724.7	16709.9	12110.2	7665.3	2018.4
50°	737.5	2964.2	9762.4	15288.3	20617.1	21920.4	21765.6	17920.3	13534.5	9069.9	2587.0
52.5°	985.3	3952.3	11265.7	16163.8	21318.0	22871.9	22683.3	18362.3	13908.9	9483.8	2744.6
55°	1047.2	4309.8	11713.2	16434.0	21782.5	23677.0	23404.0	18657.9	13956.8	9188.2	2482.8
57.5°	1016.2	3972.0	11423.3	16698.6	22430.0	24504.6	24141.5	19234.9	14117.3	8687.1	2066.2
59°	962.7	3555.4	11243.1	16909.7	22787.5	24634.1	24293.5	19361.6	14224.2	8459.1	1812.9
60°	900.8	3273.9	11102.4	17047.7	22764.9	24431.4	24079.6	19302.5	14266.4	8262.0	1691.8
62.5°	695.3	2612.3	10899.7	16949.1	21343.4	22582.0	22382.1	17855.6	13647.1	7631.5	1334.3
65°	540.5	1998.7	10156.5	15116.6	18162.4	18995.7	18933.7	15119.4	11485.2	6578.7	962.7
67.5°	427.9	1458.2	8588.6	12242.5	14612.7	15797.8	15752.8	12273.4	8718.1	5027.6	692.5
70°	349.1	1038.7	5889.0	9230.4	11687.9	13179.9	13115.1	9877.9	6460.4	3189.4	503.9
72.5°	295.6	664.3	3572.2	6958.7	9754.0	10606.9	10418.3	7969.3	4698.2	1736.9	399.7
75°	250.5	408.2	1770.6	4337.9	5810.2	5804.5	5615.9	4219.7	2522.2	850.1	318.1
77.5°	202.7	287.1	695.3	1190.7	1832.6	2268.9	2232.3	1494.8	754.4	247.7	197.1
80°	132.3	135.1	185.8	326.5	503.9	557.4	633.4	456.0	219.6	118.2	81.6
82.5°	59.1	64.7	84.5	107.0	107.0	98.5	87.3	64.7	47.9	39.4	19.7
85°	14.1	19.7	14.1	16.9	14.1	11.3	11.3	5.6	0.0	0.0	0.0
87.5°	2.8	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°	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3
2.5°	22.5	22.5	22.5	19.7	19.7	19.7	16.9	16.9	16.9	14.1	14.1
5°	28.2	25.3	22.5	22.5	19.7	19.7	16.9	14.1	14.1	14.1	11.3
7.5°	31.0	28.2	25.3	22.5	19.7	16.9	16.9	14.1	11.3	11.3	11.3
10°	36.6	33.8	28.2	22.5	19.7	16.9	14.1	14.1	11.3	8.4	8.4
12.5°	42.2	36.6	31.0	25.3	19.7	16.9	14.1	14.1	11.3	8.4	5.6
15°	47.9	42.2	33.8	25.3	19.7	16.9	14.1	14.1	8.4	5.6	2.8
17.5°	53.5	45.0	33.8	28.2	19.7	16.9	14.1	11.3	5.6	2.8	0.0
20°	56.3	47.9	36.6	28.2	19.7	16.9	14.1	8.4	2.8	0.0	0.0
22.5°	61.9	53.5	39.4	28.2	19.7	14.1	8.4	2.8	0.0	0.0	0.0
25°	73.2	56.3	39.4	28.2	19.7	14.1	5.6	0.0	0.0	0.0	0.0
27.5°	81.6	61.9	39.4	28.2	19.7	11.3	2.8	0.0	0.0	0.0	0.0
30°	95.7	67.6	42.2	28.2	19.7	8.4	2.8	0.0	0.0	0.0	0.0
32.5°	118.2	73.2	42.2	28.2	16.9	8.4	0.0	0.0	0.0	0.0	0.0
35°	143.6	84.5	42.2	28.2	16.9	8.4	0.0	0.0	0.0	0.0	0.0
37.5°	146.4	90.1	42.2	28.2	16.9	5.6	0.0	0.0	0.0	0.0	0.0
40°	152.0	84.5	45.0	28.2	16.9	5.6	0.0	0.0	0.0	0.0	0.0
42.5°	174.5	78.8	47.9	28.2	16.9	5.6	0.0	0.0	0.0	0.0	0.0
45°	259.0	81.6	47.9	31.0	16.9	8.4	0.0	0.0	0.0	0.0	0.0
47.5°	450.4	84.5	45.0	31.0	16.9	8.4	0.0	0.0	0.0	0.0	0.0
50°	577.1	98.5	45.0	33.8	19.7	5.6	0.0	0.0	0.0	0.0	0.0
52.5°	613.7	115.4	45.0	36.6	25.3	2.8	0.0	0.0	0.0	0.0	0.0
55°	596.8	135.1	47.9	39.4	31.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	551.7	146.4	50.7	42.2	33.8	0.0	0.0	0.0	0.0	0.0	0.0
59°	503.9	154.8	59.1	45.0	33.8	0.0	0.0	0.0	0.0	0.0	0.0
60°	464.5	163.3	61.9	47.9	33.8	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	374.4	174.5	67.6	56.3	28.2	0.0	0.0	0.0	0.0	0.0	0.0
65°	326.5	183.0	70.4	61.9	25.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	298.4	188.6	76.0	64.7	22.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	275.9	185.8	81.6	61.9	19.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	250.5	177.3	98.5	56.3	16.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	225.2	160.5	107.0	50.7	11.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	163.3	135.1	98.5	45.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	70.4	73.2	70.4	33.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	14.1	16.9	14.1	8.4	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°	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3
2.5°	14.1	14.1	14.1	14.1	16.9	16.9	22.5	28.2	33.8	36.6	36.6
5°	11.3	11.3	11.3	11.3	11.3	14.1	16.9	22.5	31.0	33.8	33.8
7.5°	8.4	8.4	8.4	8.4	8.4	8.4	14.1	19.7	28.2	31.0	33.8
10°	8.4	5.6	5.6	2.8	2.8	5.6	8.4	16.9	25.3	28.2	31.0
12.5°	5.6	2.8	2.8	0.0	0.0	2.8	5.6	14.1	22.5	25.3	28.2
15°	2.8	0.0	0.0	0.0	0.0	0.0	2.8	11.3	19.7	22.5	28.2
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4	16.9	22.5	25.3
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	14.1	19.7	22.5
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	11.3	16.9	19.7
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4	11.3	14.1
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	8.4	11.3
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	8.4	11.3
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.6	8.4
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.6	8.4
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.6	5.6
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.6
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.6
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.6
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.6
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.6
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8
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°	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3
2.5°	39.4	39.4	36.6	33.8	33.8	33.8	36.6	39.4	39.4	39.4
5°	36.6	36.6	33.8	33.8	33.8	33.8	36.6	42.2	45.0	45.0
7.5°	36.6	36.6	33.8	33.8	33.8	33.8	36.6	42.2	45.0	47.9
10°	33.8	33.8	33.8	33.8	31.0	33.8	36.6	42.2	50.7	50.7
12.5°	33.8	33.8	33.8	33.8	31.0	33.8	39.4	45.0	53.5	56.3
15°	33.8	33.8	33.8	31.0	31.0	33.8	39.4	47.9	56.3	61.9
17.5°	31.0	33.8	33.8	31.0	31.0	33.8	39.4	47.9	61.9	70.4
20°	28.2	31.0	33.8	31.0	31.0	31.0	39.4	47.9	64.7	76.0
22.5°	25.3	28.2	31.0	31.0	28.2	31.0	39.4	50.7	70.4	84.5
25°	22.5	25.3	25.3	28.2	28.2	31.0	39.4	50.7	73.2	95.7
27.5°	16.9	19.7	22.5	25.3	25.3	31.0	39.4	53.5	78.8	118.2
30°	14.1	16.9	19.7	22.5	25.3	31.0	39.4	53.5	84.5	149.2
32.5°	14.1	16.9	19.7	22.5	25.3	28.2	39.4	56.3	92.9	185.8
35°	11.3	14.1	16.9	22.5	22.5	28.2	39.4	56.3	101.3	242.1
37.5°	11.3	14.1	16.9	22.5	22.5	28.2	39.4	56.3	123.9	270.2
40°	8.4	11.3	14.1	22.5	22.5	28.2	42.2	59.1	126.7	273.1
42.5°	8.4	11.3	14.1	19.7	22.5	28.2	42.2	59.1	118.2	281.5
45°	8.4	11.3	14.1	22.5	25.3	31.0	42.2	61.9	115.4	320.9
47.5°	8.4	11.3	14.1	22.5	28.2	31.0	42.2	61.9	118.2	458.8
50°	8.4	11.3	14.1	22.5	31.0	31.0	42.2	61.9	129.5	737.5
52.5°	5.6	8.4	11.3	19.7	25.3	33.8	45.0	59.1	137.9	985.3
55°	5.6	5.6	8.4	16.9	22.5	36.6	47.9	59.1	160.5	1047.2
57.5°	5.6	5.6	8.4	14.1	19.7	39.4	50.7	59.1	185.8	1016.2
59°	5.6	5.6	5.6	14.1	16.9	39.4	50.7	61.9	188.6	962.7
60°	5.6	5.6	5.6	11.3	16.9	39.4	53.5	64.7	191.4	900.8
62.5°	2.8	2.8	2.8	11.3	14.1	39.4	59.1	78.8	197.1	695.3
65°	5.6	5.6	2.8	8.4	14.1	33.8	67.6	84.5	199.9	540.5
67.5°	5.6	5.6	5.6	11.3	14.1	33.8	70.4	87.3	199.9	427.9
70°	5.6	5.6	5.6	11.3	16.9	33.8	70.4	90.1	197.1	349.1
72.5°	5.6	5.6	5.6	11.3	16.9	31.0	64.7	92.9	188.6	295.6
75°	5.6	5.6	5.6	8.4	14.1	28.2	61.9	101.3	171.7	250.5
77.5°	5.6	5.6	5.6	5.6	11.3	22.5	56.3	112.6	152.0	202.7
80°	8.4	5.6	5.6	5.6	8.4	19.7	53.5	109.8	126.7	132.3
82.5°	8.4	5.6	5.6	2.8	5.6	14.1	42.2	84.5	64.7	59.1
85°	5.6	5.6	5.6	2.8	2.8	8.4	19.7	25.3	19.7	14.1
87.5°	5.6	5.6	5.6	2.8	2.8	2.8	2.8	2.8	2.8	2.8
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

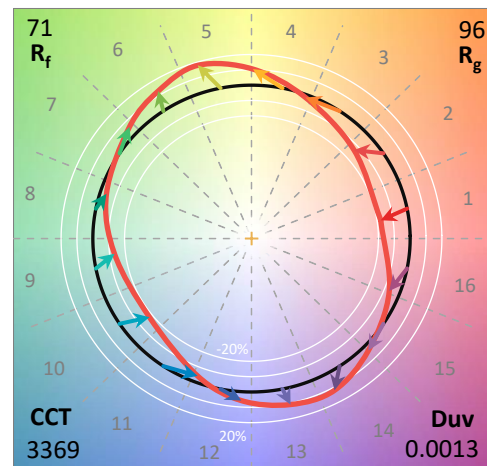
Test Information

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

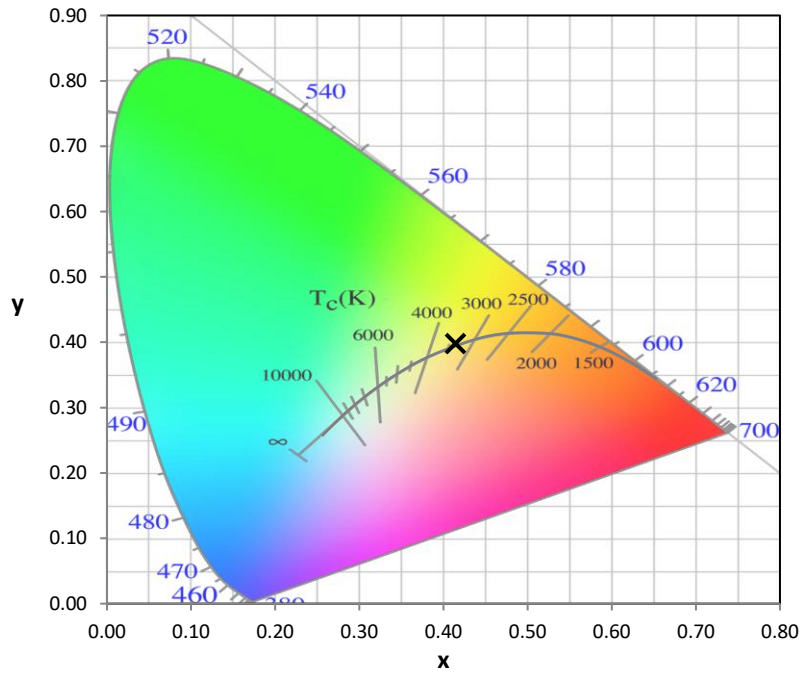
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-5

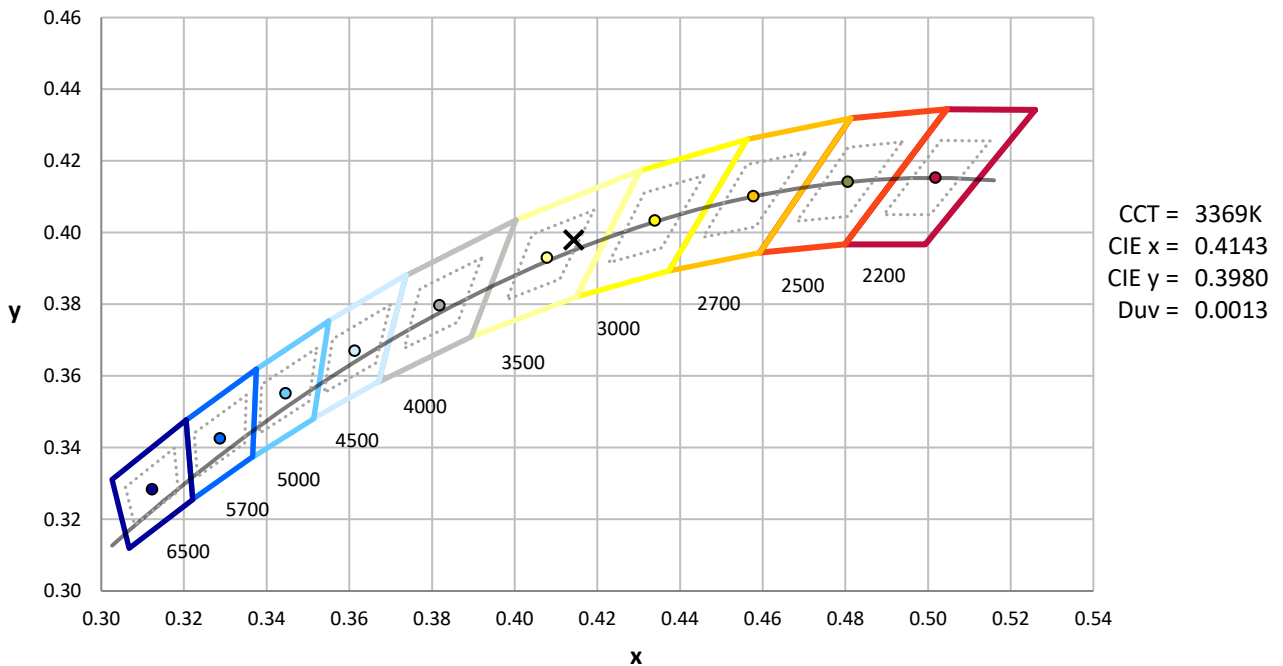
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



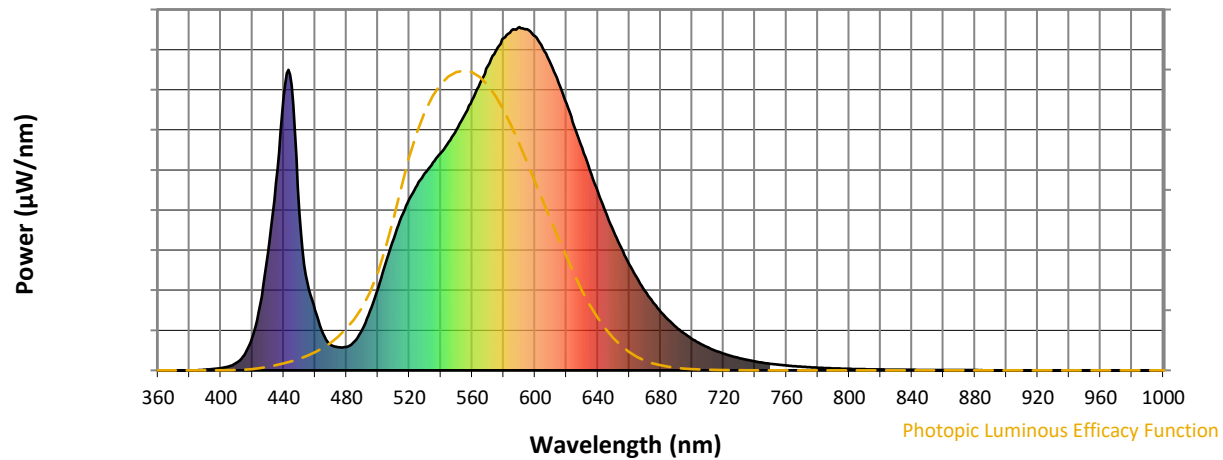
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-5

Photopic Flux vs. Wavelength

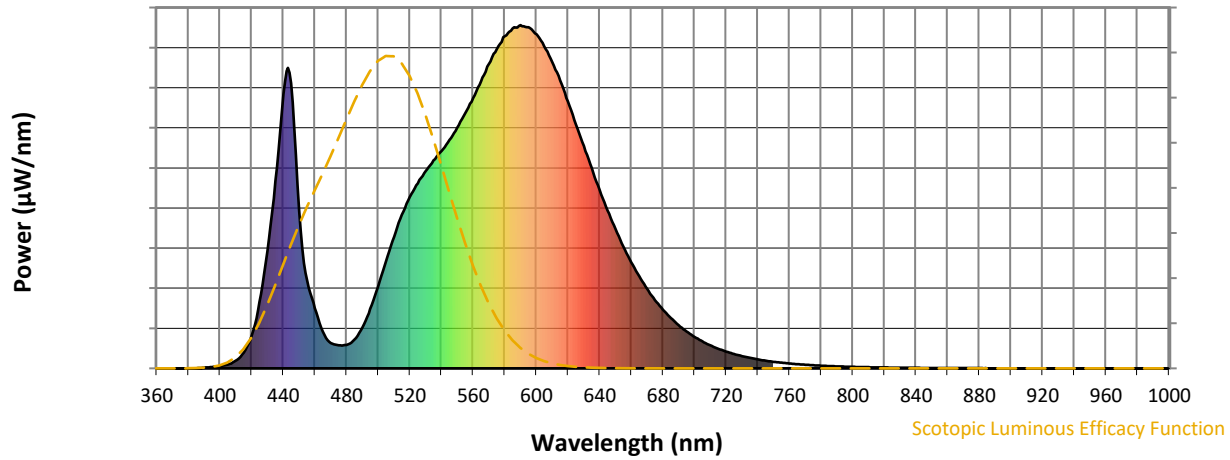


Photopic Lumens: NR

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



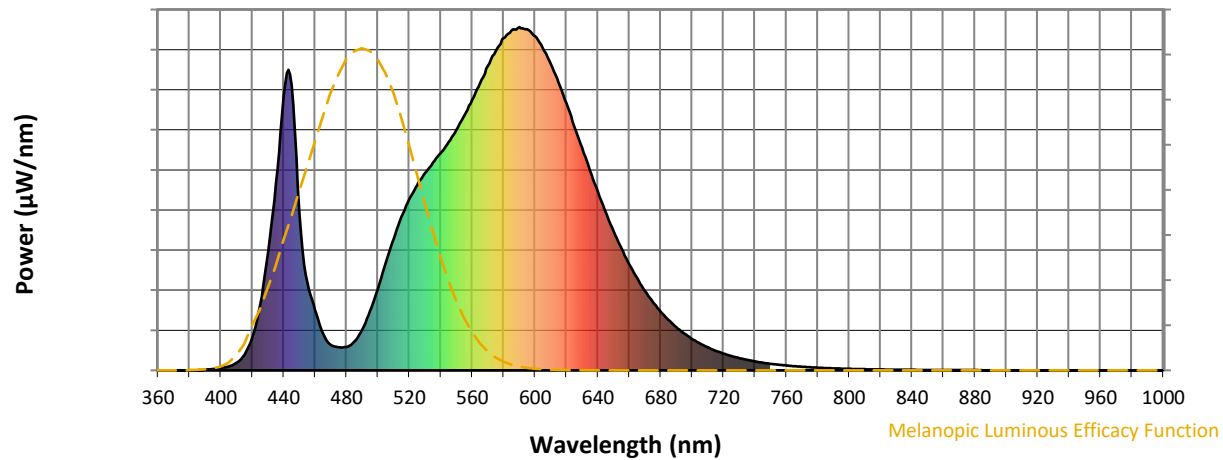
Scotopic Lumens: NR

S/P: 1.29

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.36

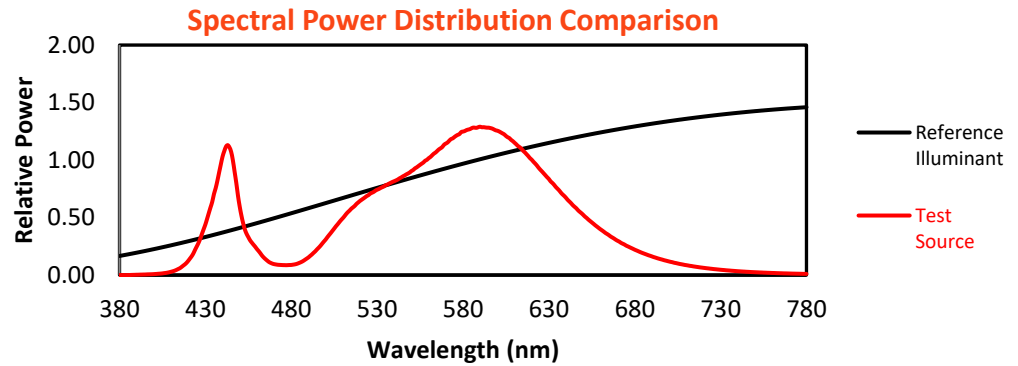
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	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

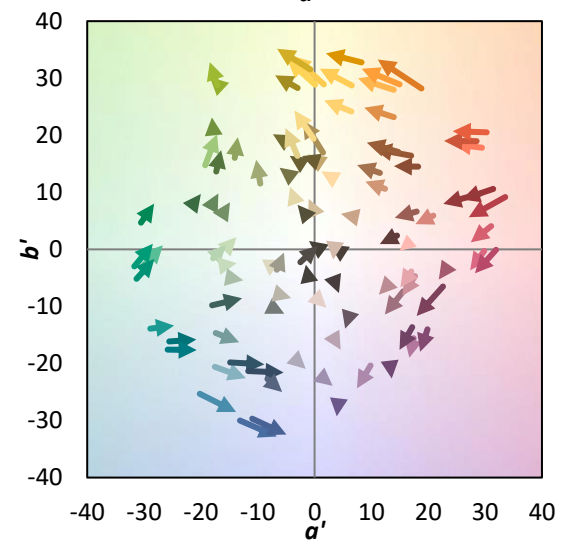
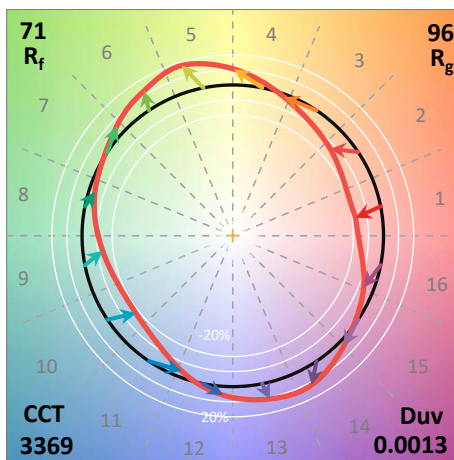
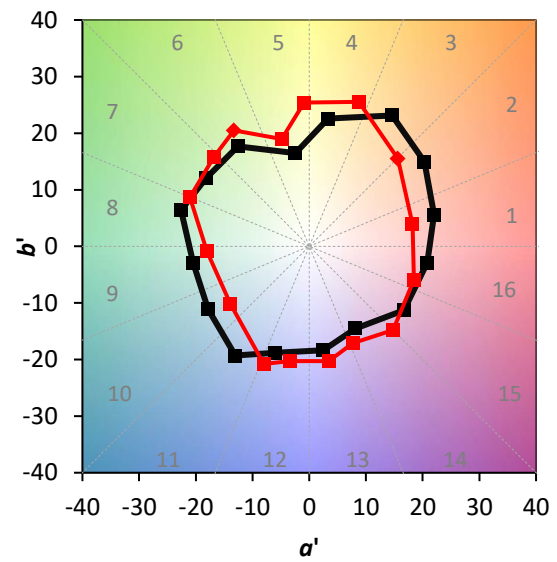
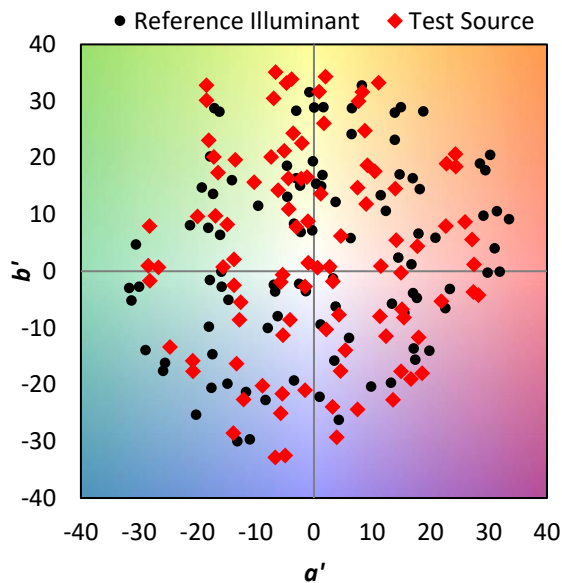
TM-30-18

Summary

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

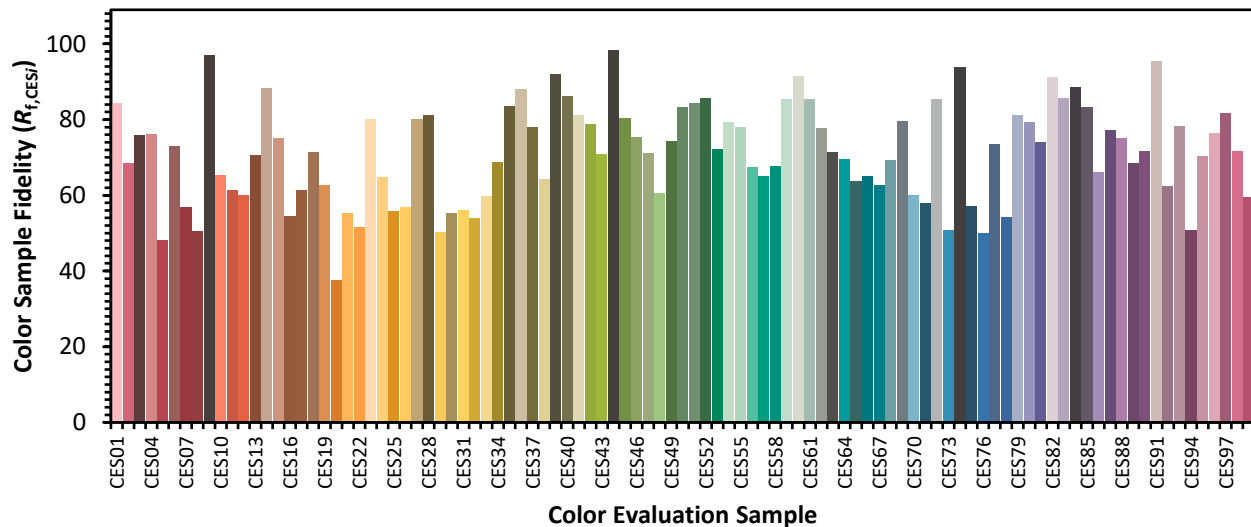


Color Vector Graphics

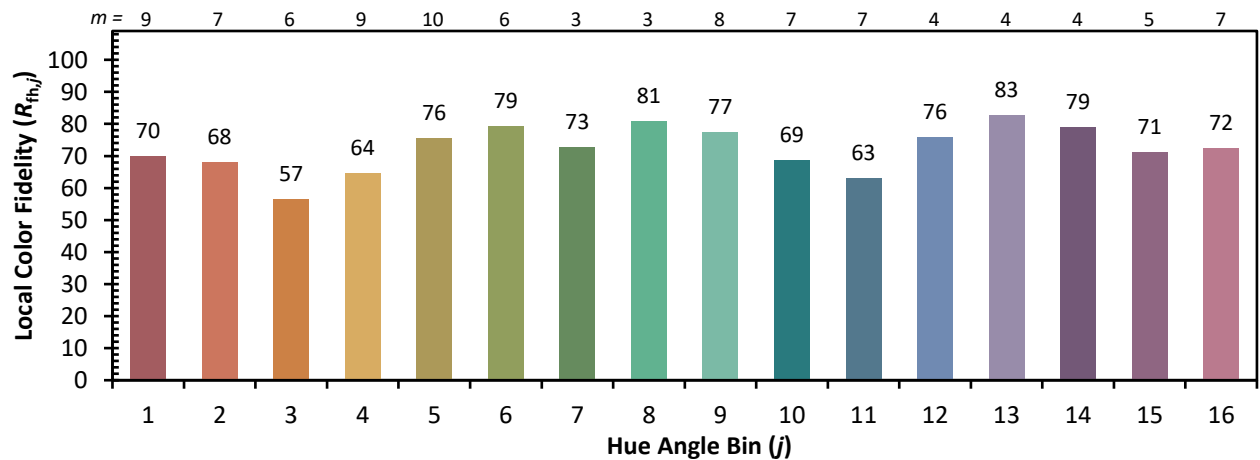
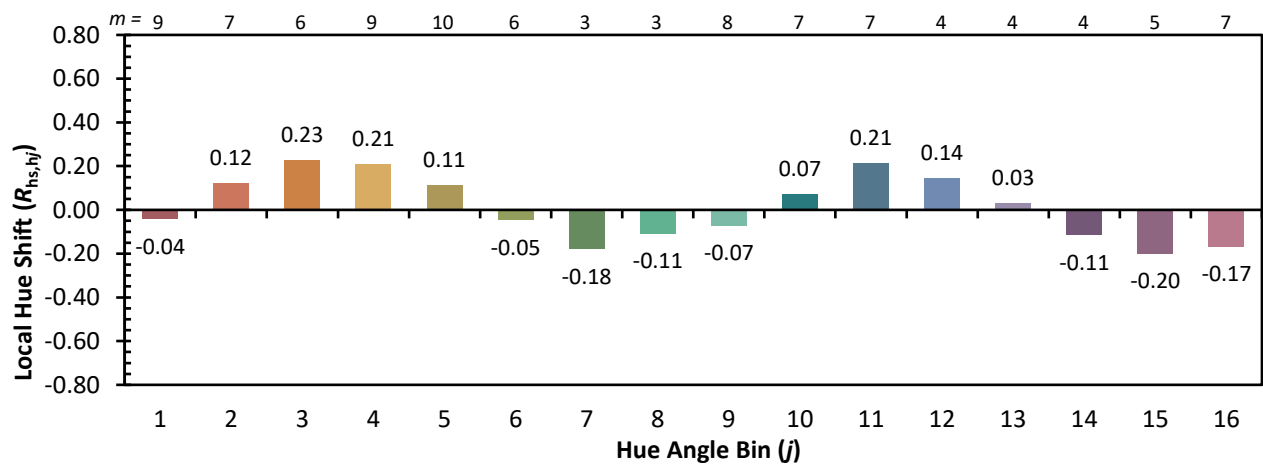
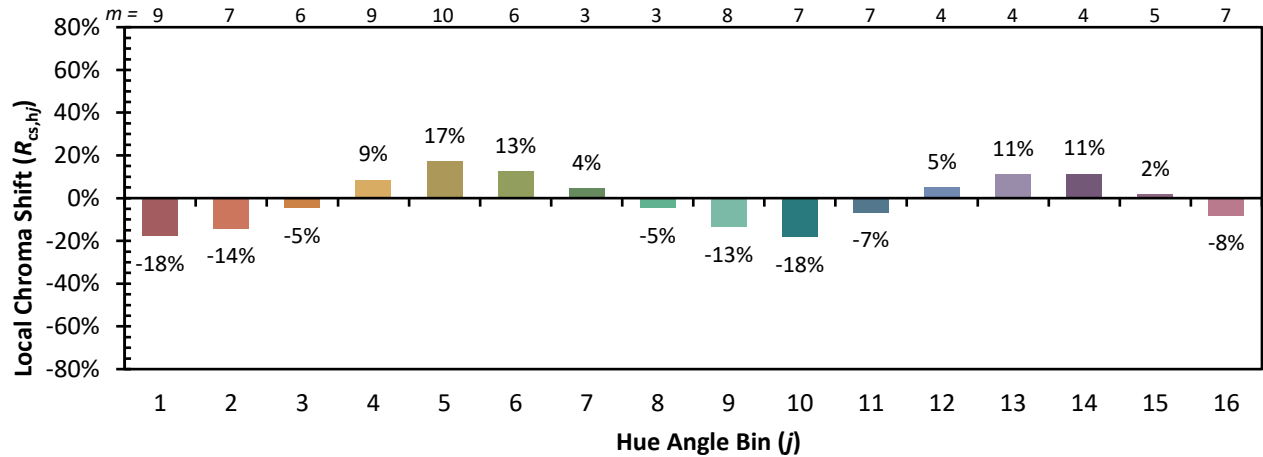


Individual Sample Fidelity Index ($R_{f,i}$)

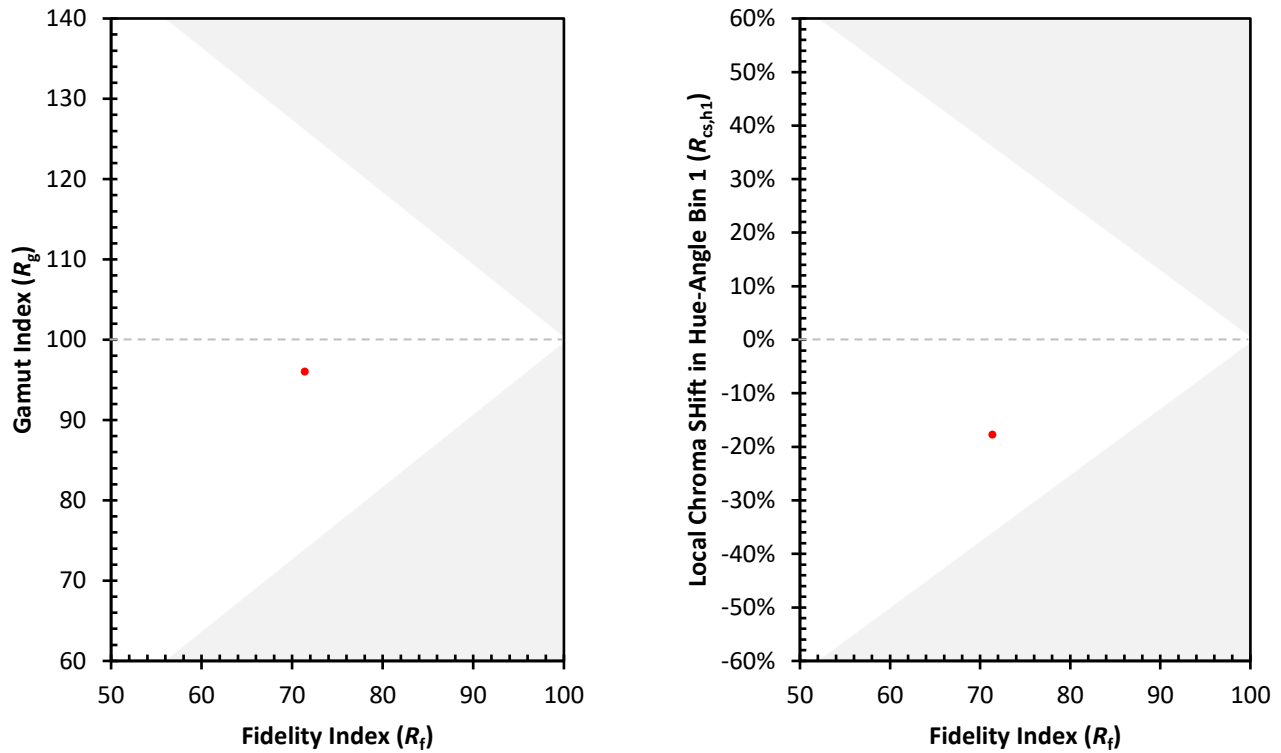
CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82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