

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: P1067987

Luminaire Tested: **NAV-SA6C-735-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067987
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA6C-735-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 6xLight Square PACKAGE
70CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26622.7 lumens
Efficiency: N/A
Efficacy: 95.4 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): 279.1
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

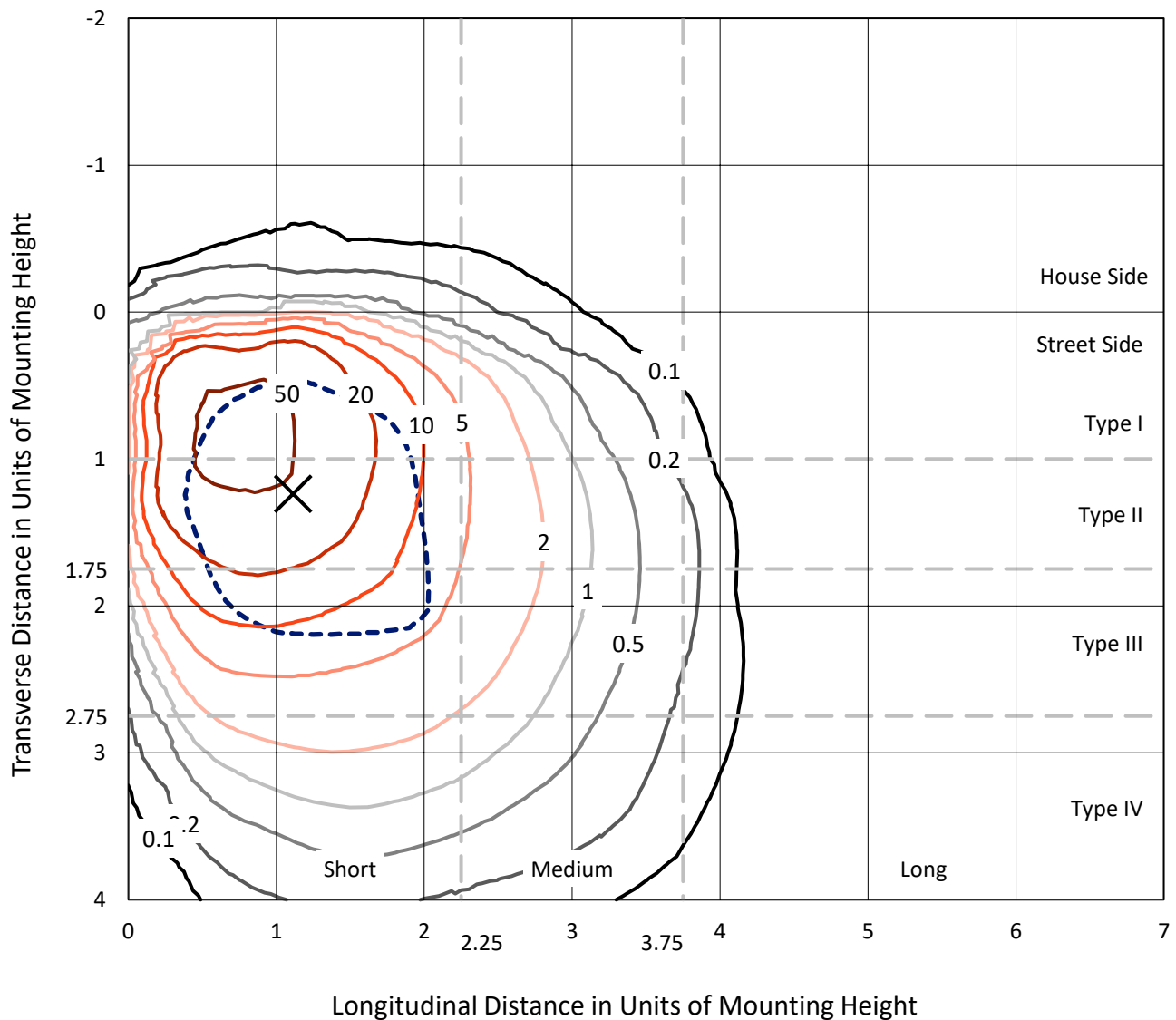


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

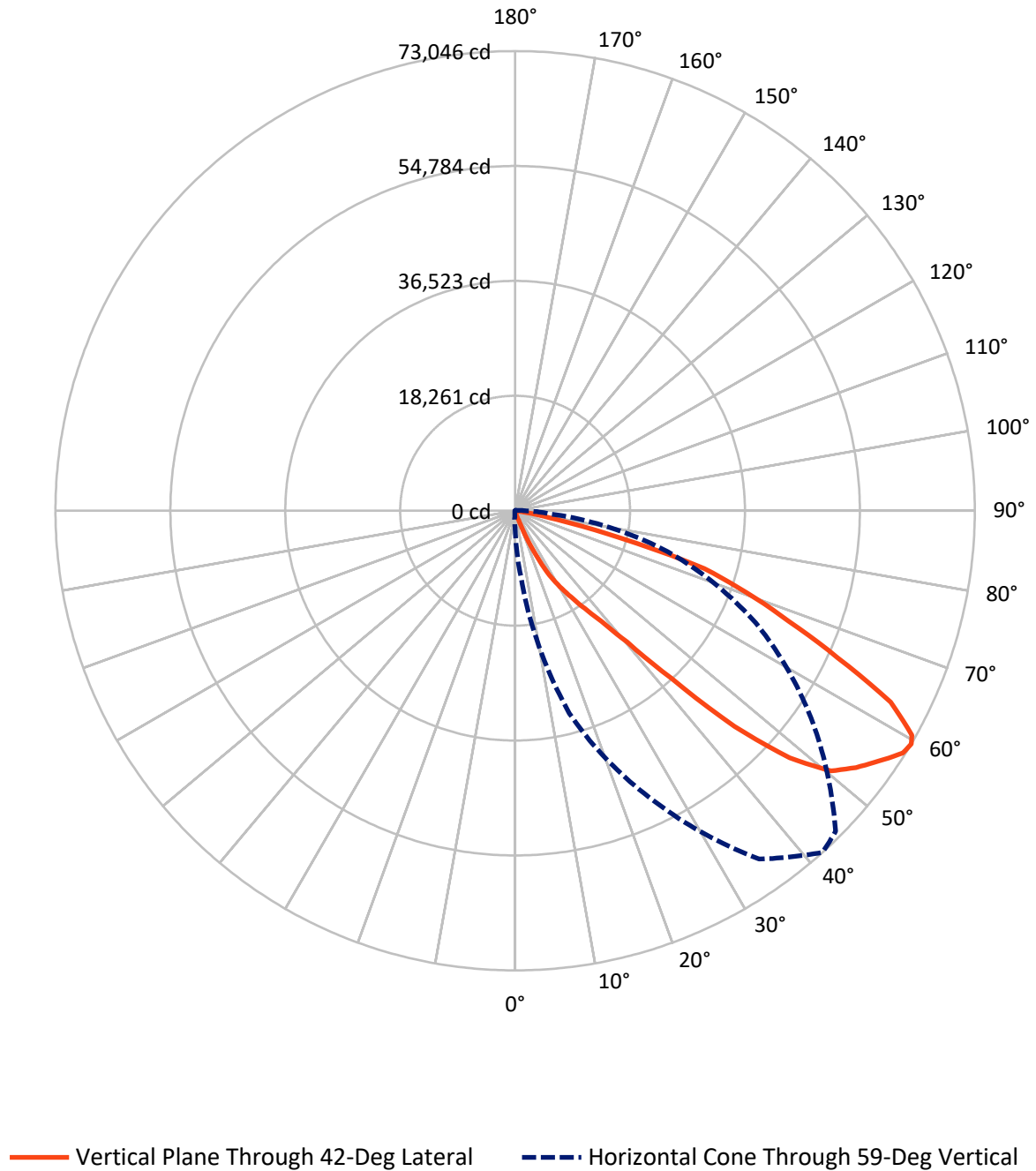


Based on 15 foot mounting height. Maximum calculated value = 79.1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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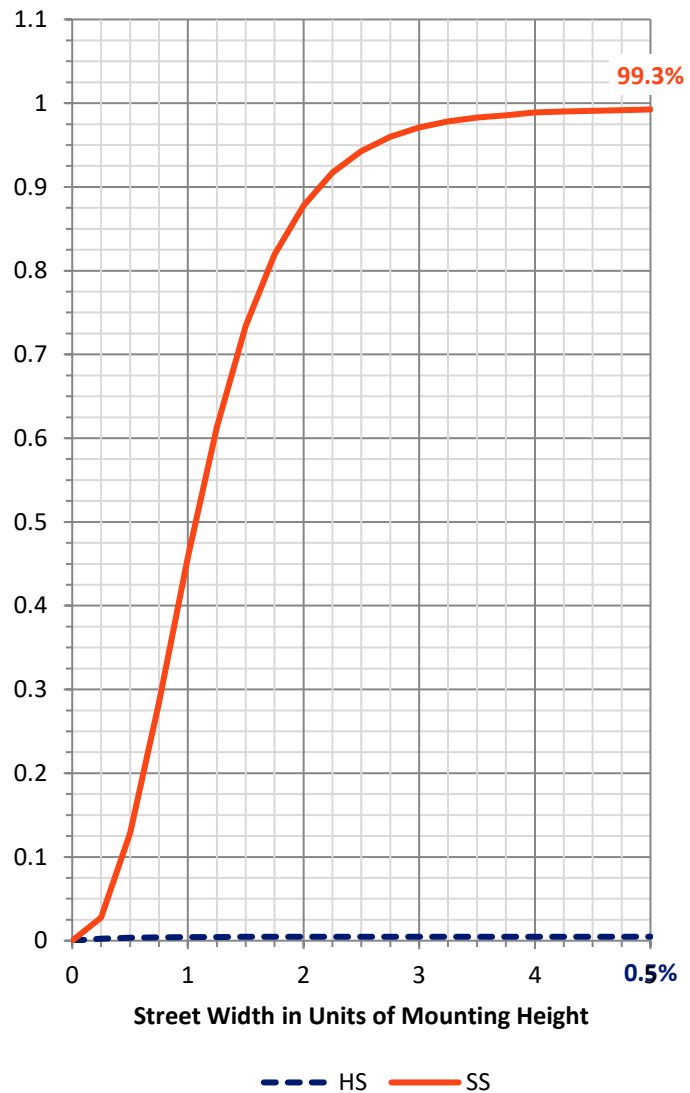
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	128.3	0.0	128.3
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	26494.4	0.0	26494.4
	% Fixture	99.5	0.0	99.5
Total	Lumens	26622.7	0.0	26622.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.8	0.0
10°-20°	38.8	0.1
20°-30°	496.6	1.9
30°-40°	1674.2	6.3
40°-50°	5056.9	19.0
50°-60°	8926.6	33.5
60°-70°	7860.0	29.5
70°-80°	2501.9	9.4
80°-90°	59.8	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°	26622.7	100.0
0°-180°	26622.7	100.0



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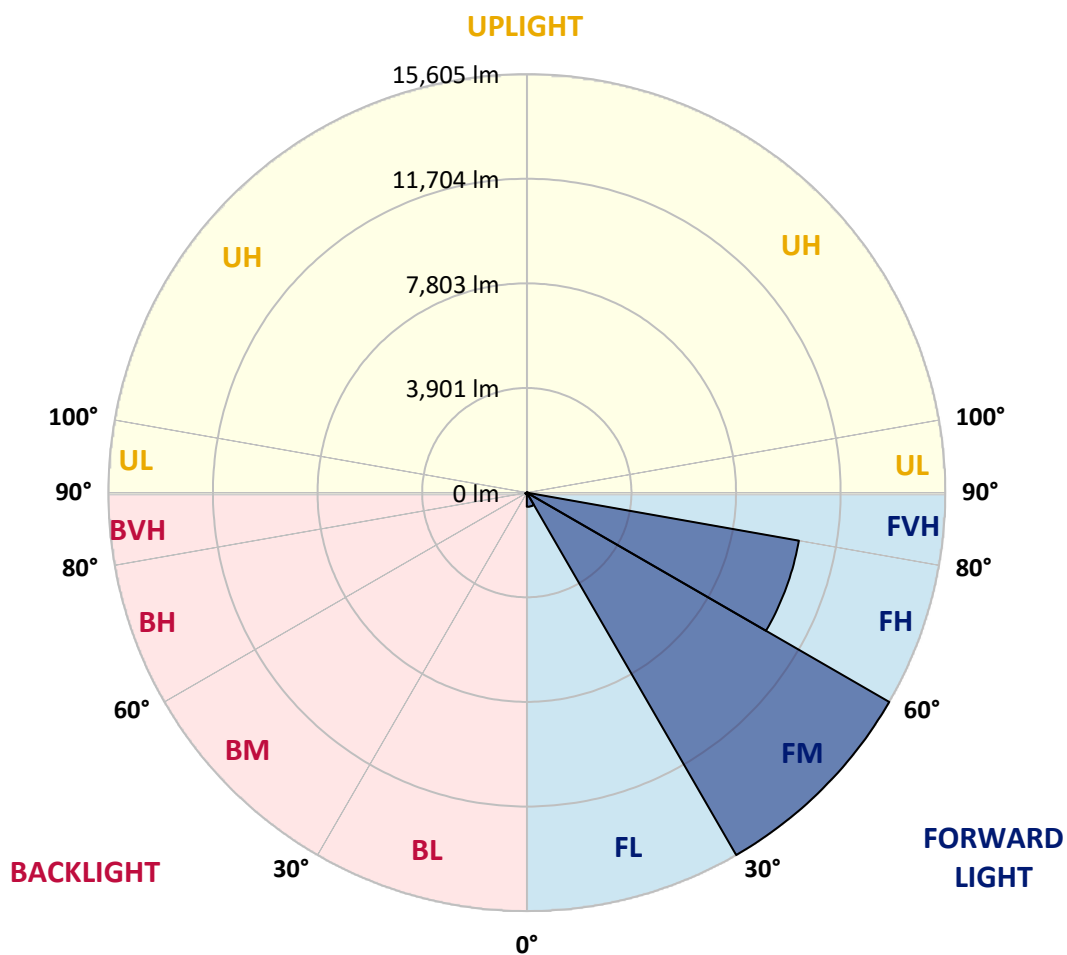
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	528.9	2.0			
FM	(30°-60°)	15605.3	58.6			
FH	(60°-80°)	10303.2	38.7			G4/12000
FVH	(80°-90°)	57.0	0.2			G1/100
BL	(0°-30°)	14.3	0.1	B0/110		
BM	(30°-60°)	52.4	0.2	B0/220		
BH	(60°-80°)	58.7	0.2	B0/110		G0/110
BVH	(80°-90°)	2.9	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°	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
2.5°	116.9	116.9	108.5	100.2	91.8	83.5	83.5	83.5	75.1	75.1	66.8
5°	133.6	133.6	125.2	116.9	116.9	108.5	108.5	100.2	91.8	91.8	83.5
7.5°	141.9	141.9	141.9	141.9	133.6	133.6	133.6	125.2	116.9	108.5	100.2
10°	150.2	158.6	166.9	166.9	166.9	166.9	166.9	158.6	141.9	133.6	116.9
12.5°	166.9	175.3	192.0	208.7	208.7	217.0	208.7	200.3	183.6	158.6	133.6
15°	183.6	200.3	225.4	258.8	292.1	300.5	300.5	275.5	242.1	192.0	158.6
17.5°	208.7	233.7	300.5	409.0	525.9	617.7	617.7	550.9	384.0	250.4	183.6
20°	225.4	275.5	484.1	985.0	1502.5	1886.4	1811.3	1602.6	859.8	392.3	200.3
22.5°	250.4	350.6	1026.7	2587.6	4006.6	4707.8	4540.8	3447.4	1928.2	701.2	242.1
25°	283.8	509.2	2036.7	4849.7	7445.6	8205.2	8096.7	6435.6	3514.1	1176.9	308.8
27.5°	350.6	751.2	3263.7	7353.8	10984.8	11635.9	11594.1	9423.9	5617.6	1894.8	400.7
30°	442.4	1093.5	4841.3	9991.5	13330.3	13989.7	13781.1	11610.8	7579.2	2896.4	517.5
32.5°	550.9	1527.5	6268.7	11936.4	15492.2	16360.3	16109.9	13514.0	9156.8	3747.8	767.9
35°	717.9	1953.2	7679.3	13655.9	17988.0	19089.8	18672.5	15475.5	10517.3	4707.8	926.5
37.5°	801.3	2203.6	8973.1	15525.6	20792.6	22295.1	21977.9	17954.6	11903.0	5934.8	1135.2
40°	809.7	2504.1	10317.0	17963.0	24757.5	27436.9	26869.3	22211.6	14482.2	7512.4	1460.7
42.5°	834.7	2954.9	12061.6	22119.8	32545.3	36393.3	35750.6	30041.2	20333.5	10675.9	2070.1
45°	951.6	3806.3	15617.4	29891.0	43238.0	48880.6	48137.7	40950.9	28505.3	16627.4	3530.8
47.5°	1360.6	5726.1	21852.7	38279.8	54172.7	58671.8	58488.1	49548.4	35909.2	22729.1	5984.9
50°	2186.9	8789.5	28947.7	45333.1	61134.1	64998.9	64539.8	53137.6	40132.8	26894.4	7671.0
52.5°	2921.5	11719.3	33405.1	47929.0	63212.6	67820.2	67260.9	54448.1	41243.0	28121.4	8138.4
55°	3105.1	12779.4	34732.3	48730.4	64589.8	70207.4	69397.8	55324.6	41384.9	27244.9	7362.1
57.5°	3013.3	11777.8	33872.5	49515.0	66509.7	72661.5	71584.7	57035.7	41860.7	25759.1	6126.8
59°	2854.7	10542.4	33338.3	50141.0	67569.8	73045.5	72035.5	57411.3	42177.9	25083.0	5375.5
60°	2671.1	9707.7	32921.0	50550.0	67503.0	72444.5	71401.1	57236.1	42303.1	24498.7	5016.6
62.5°	2061.7	7746.1	32320.0	50257.9	63287.7	66960.4	66367.8	52945.6	40466.7	22629.0	3956.5
65°	1602.6	5926.4	30116.3	44823.9	53855.5	56326.2	56142.6	44832.3	34056.2	19507.2	2854.7
67.5°	1268.8	4323.8	25467.0	36301.5	43329.8	46843.9	46710.4	36393.3	25851.0	14907.9	2053.4
70°	1035.0	3080.1	17462.1	27370.1	34657.2	39081.1	38889.1	29290.0	19156.6	9457.3	1494.1
72.5°	876.4	1969.9	10592.5	20634.0	28922.7	31451.9	30892.6	23630.6	13931.3	5150.2	1185.3
75°	742.9	1210.3	5250.3	12862.9	17228.4	17211.7	16652.5	12512.3	7479.0	2520.8	943.2
77.5°	601.0	851.4	2061.7	3530.8	5434.0	6727.8	6619.2	4432.3	2237.0	734.5	584.3
80°	392.3	400.7	550.9	968.3	1494.1	1652.7	1878.1	1352.2	651.1	350.6	242.1
82.5°	175.3	192.0	250.4	317.2	317.2	292.1	258.8	192.0	141.9	116.9	58.4
85°	41.7	58.4	41.7	50.1	41.7	33.4	33.4	16.7	0.0	0.0	0.0
87.5°	8.3	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°	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
2.5°	66.8	66.8	66.8	58.4	58.4	58.4	50.1	50.1	50.1	41.7	41.7
5°	83.5	75.1	66.8	66.8	58.4	58.4	50.1	41.7	41.7	41.7	33.4
7.5°	91.8	83.5	75.1	66.8	58.4	50.1	50.1	41.7	33.4	33.4	33.4
10°	108.5	100.2	83.5	66.8	58.4	50.1	41.7	41.7	33.4	25.0	25.0
12.5°	125.2	108.5	91.8	75.1	58.4	50.1	41.7	41.7	33.4	25.0	16.7
15°	141.9	125.2	100.2	75.1	58.4	50.1	41.7	41.7	25.0	16.7	8.3
17.5°	158.6	133.6	100.2	83.5	58.4	50.1	41.7	33.4	16.7	8.3	0.0
20°	166.9	141.9	108.5	83.5	58.4	50.1	41.7	25.0	8.3	0.0	0.0
22.5°	183.6	158.6	116.9	83.5	58.4	41.7	25.0	8.3	0.0	0.0	0.0
25°	217.0	166.9	116.9	83.5	58.4	41.7	16.7	0.0	0.0	0.0	0.0
27.5°	242.1	183.6	116.9	83.5	58.4	33.4	8.3	0.0	0.0	0.0	0.0
30°	283.8	200.3	125.2	83.5	58.4	25.0	8.3	0.0	0.0	0.0	0.0
32.5°	350.6	217.0	125.2	83.5	50.1	25.0	0.0	0.0	0.0	0.0	0.0
35°	425.7	250.4	125.2	83.5	50.1	25.0	0.0	0.0	0.0	0.0	0.0
37.5°	434.0	267.1	125.2	83.5	50.1	16.7	0.0	0.0	0.0	0.0	0.0
40°	450.7	250.4	133.6	83.5	50.1	16.7	0.0	0.0	0.0	0.0	0.0
42.5°	517.5	233.7	141.9	83.5	50.1	16.7	0.0	0.0	0.0	0.0	0.0
45°	767.9	242.1	141.9	91.8	50.1	25.0	0.0	0.0	0.0	0.0	0.0
47.5°	1335.5	250.4	133.6	91.8	50.1	25.0	0.0	0.0	0.0	0.0	0.0
50°	1711.2	292.1	133.6	100.2	58.4	16.7	0.0	0.0	0.0	0.0	0.0
52.5°	1819.7	342.2	133.6	108.5	75.1	8.3	0.0	0.0	0.0	0.0	0.0
55°	1769.6	400.7	141.9	116.9	91.8	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1636.0	434.0	150.2	125.2	100.2	0.0	0.0	0.0	0.0	0.0	0.0
59°	1494.1	459.1	175.3	133.6	100.2	0.0	0.0	0.0	0.0	0.0	0.0
60°	1377.3	484.1	183.6	141.9	100.2	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1110.2	517.5	200.3	166.9	83.5	0.0	0.0	0.0	0.0	0.0	0.0
65°	968.3	542.6	208.7	183.6	75.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	884.8	559.3	225.4	192.0	66.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	818.0	550.9	242.1	183.6	58.4	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	742.9	525.9	292.1	166.9	50.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	667.8	475.8	317.2	150.2	33.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	484.1	400.7	292.1	133.6	16.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	208.7	217.0	208.7	100.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	41.7	50.1	41.7	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
2.5°	41.7	41.7	41.7	41.7	50.1	50.1	66.8	83.5	100.2	108.5	108.5
5°	33.4	33.4	33.4	33.4	33.4	41.7	50.1	66.8	91.8	100.2	100.2
7.5°	25.0	25.0	25.0	25.0	25.0	25.0	41.7	58.4	83.5	91.8	100.2
10°	25.0	16.7	16.7	8.3	8.3	16.7	25.0	50.1	75.1	83.5	91.8
12.5°	16.7	8.3	8.3	0.0	0.0	8.3	16.7	41.7	66.8	75.1	83.5
15°	8.3	0.0	0.0	0.0	0.0	0.0	8.3	33.4	58.4	66.8	83.5
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	50.1	66.8	75.1
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.7	41.7	58.4	66.8
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	33.4	50.1	58.4
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	33.4	41.7
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.7	25.0	33.4
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.7	25.0	33.4
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	16.7	25.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	16.7	25.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	16.7	16.7
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	16.7
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	16.7
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	16.7
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	16.7
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	16.7
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	8.3
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	8.3
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	8.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	16.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	16.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	8.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	8.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	8.3
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°	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
2.5°	116.9	116.9	108.5	100.2	100.2	100.2	108.5	116.9	116.9	116.9
5°	108.5	108.5	100.2	100.2	100.2	100.2	108.5	125.2	133.6	133.6
7.5°	108.5	108.5	100.2	100.2	100.2	100.2	108.5	125.2	133.6	141.9
10°	100.2	100.2	100.2	100.2	91.8	100.2	108.5	125.2	150.2	150.2
12.5°	100.2	100.2	100.2	100.2	91.8	100.2	116.9	133.6	158.6	166.9
15°	100.2	100.2	100.2	91.8	91.8	100.2	116.9	141.9	166.9	183.6
17.5°	91.8	100.2	100.2	91.8	91.8	100.2	116.9	141.9	183.6	208.7
20°	83.5	91.8	100.2	91.8	91.8	91.8	116.9	141.9	192.0	225.4
22.5°	75.1	83.5	91.8	91.8	83.5	91.8	116.9	150.2	208.7	250.4
25°	66.8	75.1	75.1	83.5	83.5	91.8	116.9	150.2	217.0	283.8
27.5°	50.1	58.4	66.8	75.1	75.1	91.8	116.9	158.6	233.7	350.6
30°	41.7	50.1	58.4	66.8	75.1	91.8	116.9	158.6	250.4	442.4
32.5°	41.7	50.1	58.4	66.8	75.1	83.5	116.9	166.9	275.5	550.9
35°	33.4	41.7	50.1	66.8	66.8	83.5	116.9	166.9	300.5	717.9
37.5°	33.4	41.7	50.1	66.8	66.8	83.5	116.9	166.9	367.3	801.3
40°	25.0	33.4	41.7	66.8	66.8	83.5	125.2	175.3	375.6	809.7
42.5°	25.0	33.4	41.7	58.4	66.8	83.5	125.2	175.3	350.6	834.7
45°	25.0	33.4	41.7	66.8	75.1	91.8	125.2	183.6	342.2	951.6
47.5°	25.0	33.4	41.7	66.8	83.5	91.8	125.2	183.6	350.6	1360.6
50°	25.0	33.4	41.7	66.8	91.8	91.8	125.2	183.6	384.0	2186.9
52.5°	16.7	25.0	33.4	58.4	75.1	100.2	133.6	175.3	409.0	2921.5
55°	16.7	16.7	25.0	50.1	66.8	108.5	141.9	175.3	475.8	3105.1
57.5°	16.7	16.7	25.0	41.7	58.4	116.9	150.2	175.3	550.9	3013.3
59°	16.7	16.7	25.0	41.7	58.4	116.9	150.2	175.3	550.9	3013.3
60°	16.7	16.7	16.7	33.4	50.1	116.9	158.6	192.0	567.6	2671.1
62.5°	8.3	8.3	8.3	33.4	41.7	116.9	175.3	233.7	584.3	2061.7
65°	16.7	16.7	8.3	25.0	41.7	100.2	200.3	250.4	592.6	1602.6
67.5°	16.7	16.7	16.7	33.4	41.7	100.2	208.7	258.8	592.6	1268.8
70°	16.7	16.7	16.7	33.4	50.1	100.2	208.7	267.1	584.3	1035.0
72.5°	16.7	16.7	16.7	33.4	50.1	91.8	192.0	275.5	559.3	876.4
75°	16.7	16.7	16.7	25.0	41.7	83.5	183.6	300.5	509.2	742.9
77.5°	16.7	16.7	16.7	16.7	33.4	66.8	166.9	333.9	450.7	601.0
80°	25.0	16.7	16.7	16.7	25.0	58.4	158.6	325.5	375.6	392.3
82.5°	25.0	16.7	16.7	8.3	16.7	41.7	125.2	250.4	192.0	175.3
85°	16.7	16.7	16.7	8.3	8.3	25.0	58.4	75.1	58.4	41.7
87.5°	16.7	16.7	16.7	8.3	8.3	8.3	8.3	8.3	8.3	8.3
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

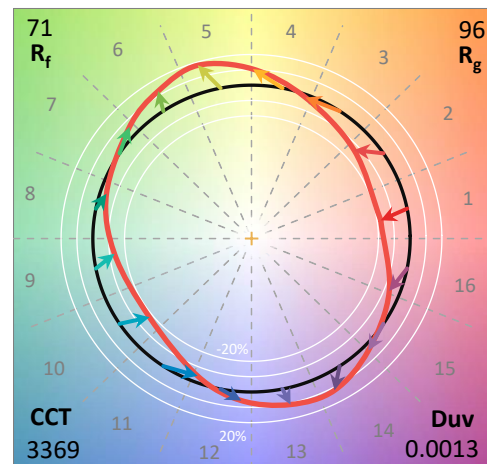
Test Information

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

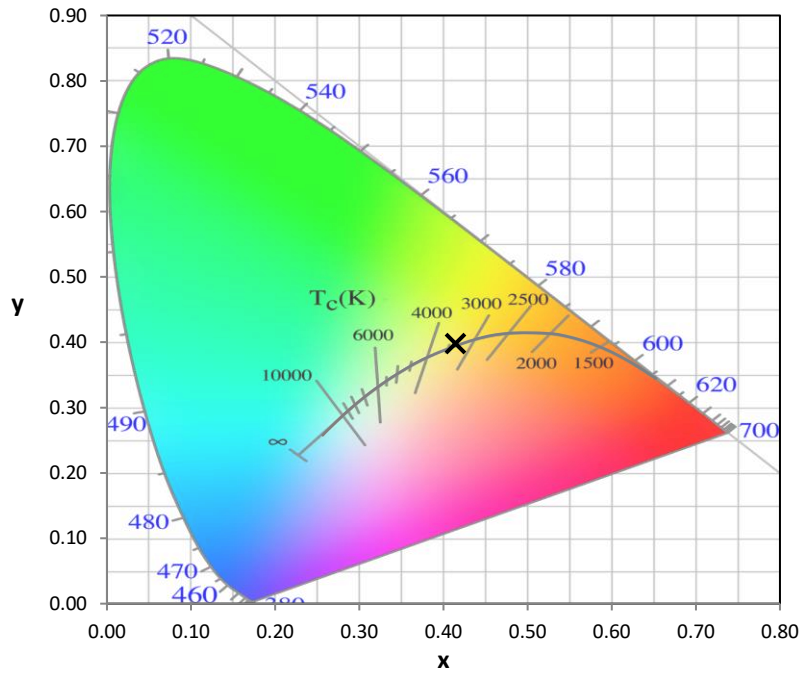
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-5

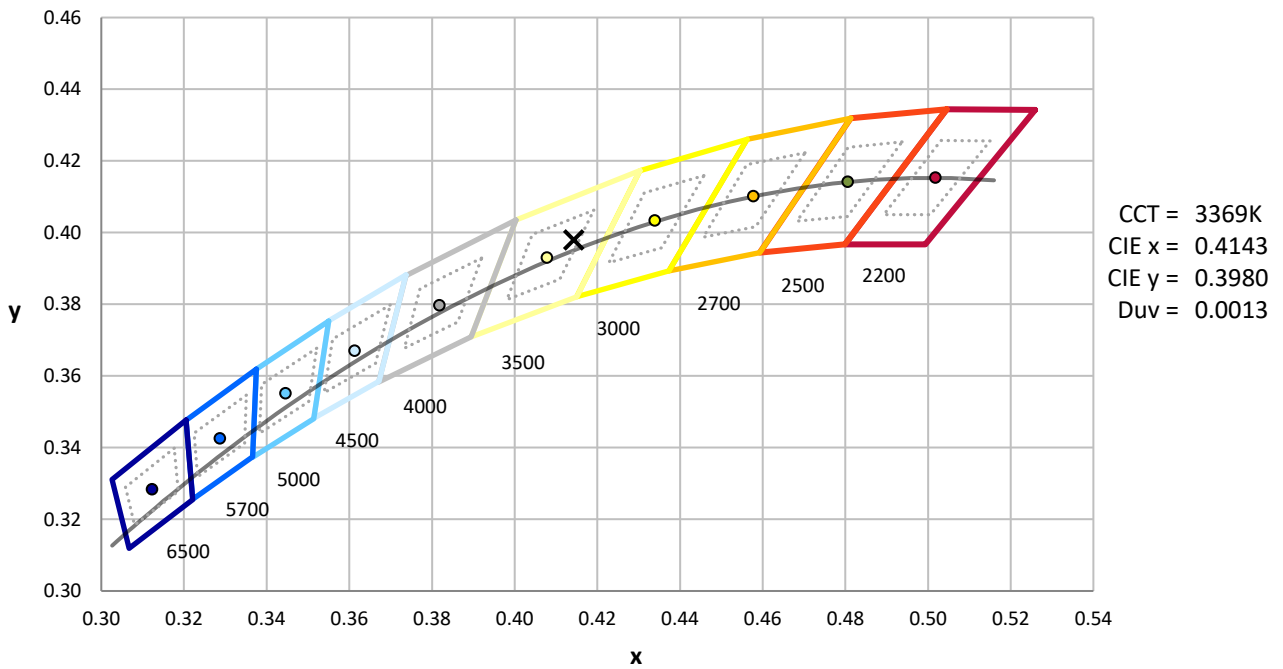
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



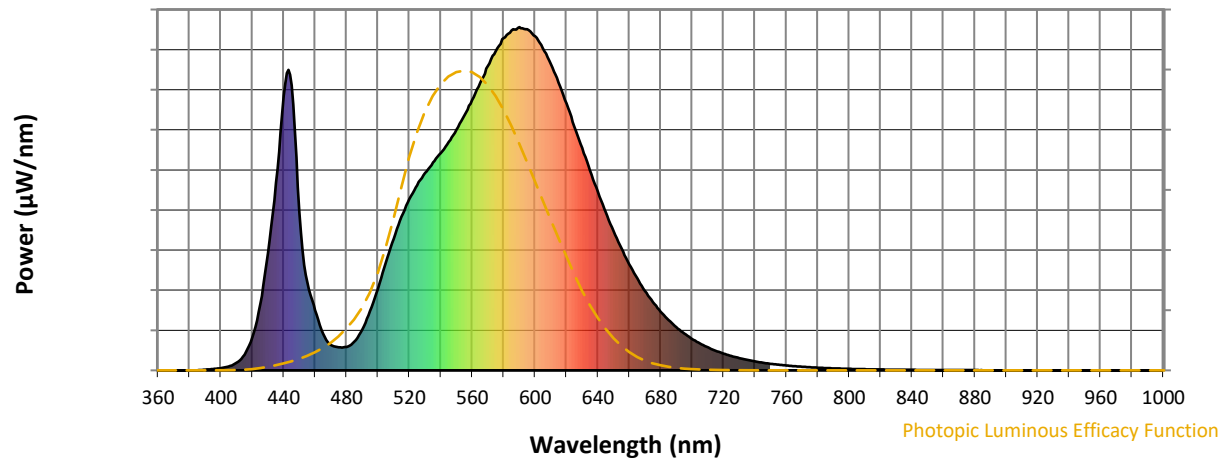
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-5

Photopic Flux vs. Wavelength

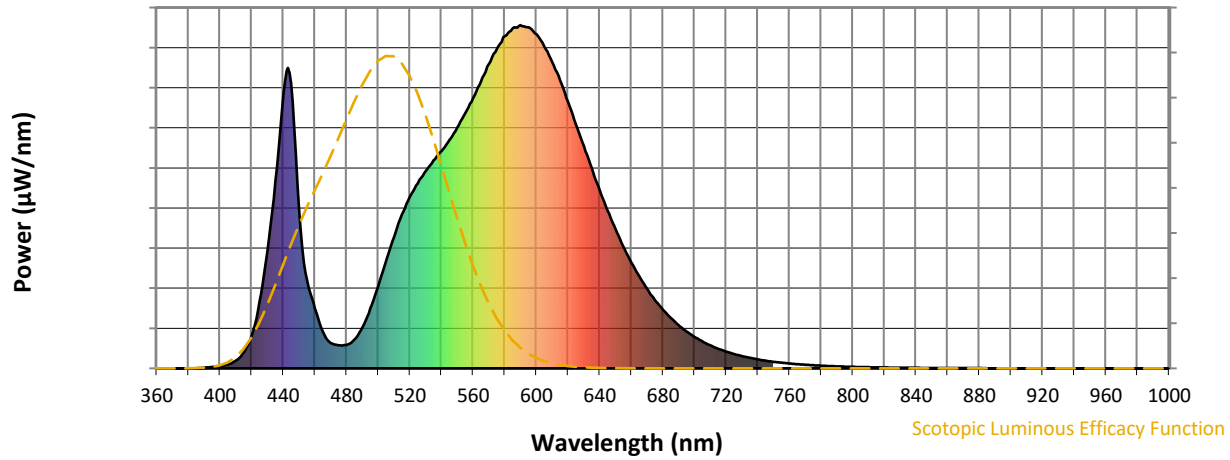


Photopic Lumens: NR

λ (nm)	Power 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



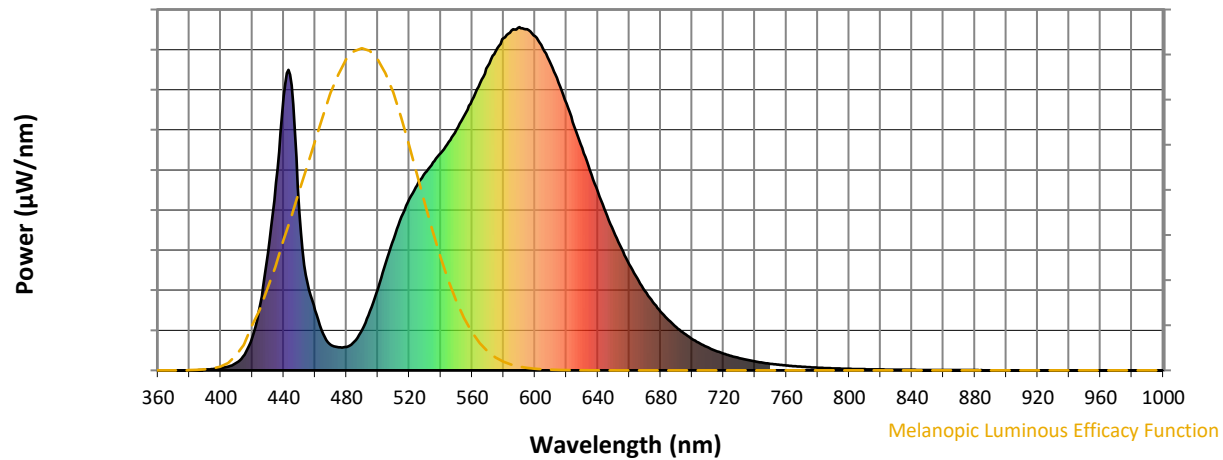
Scotopic Lumens: NR

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

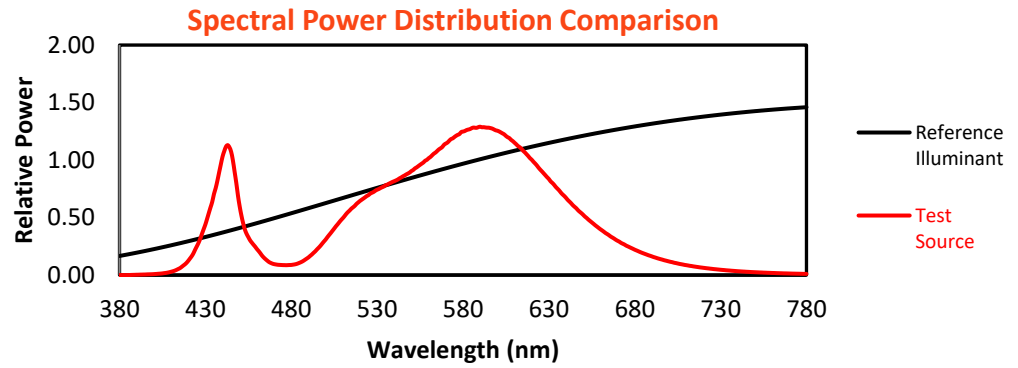
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630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

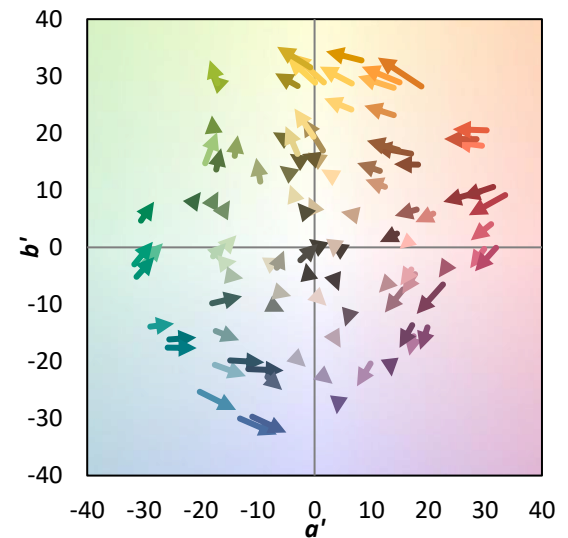
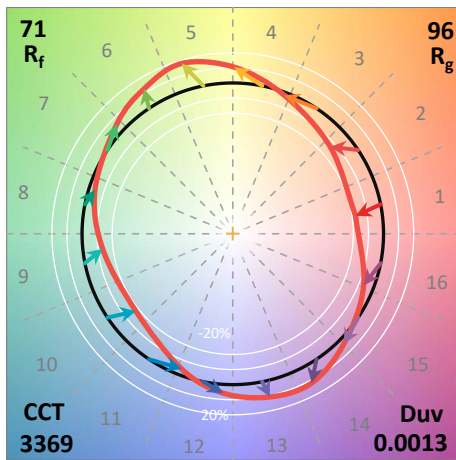
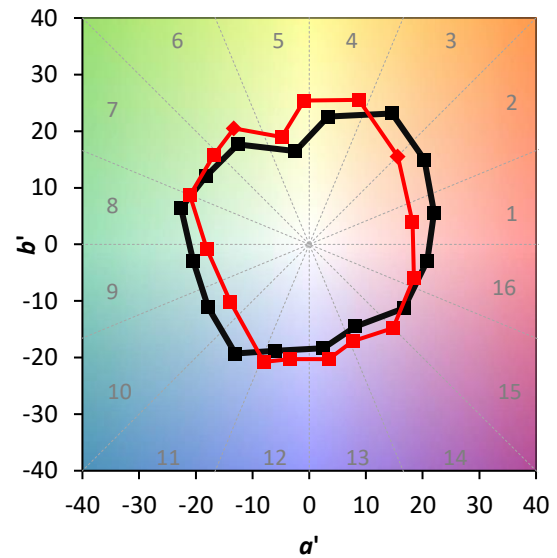
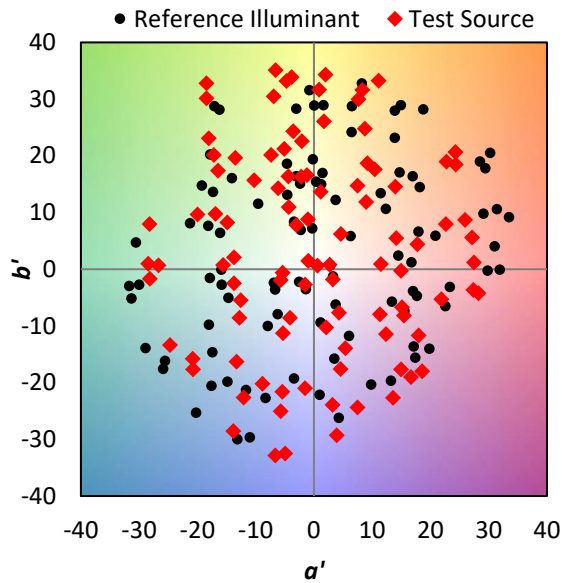
TM-30-18

Summary

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

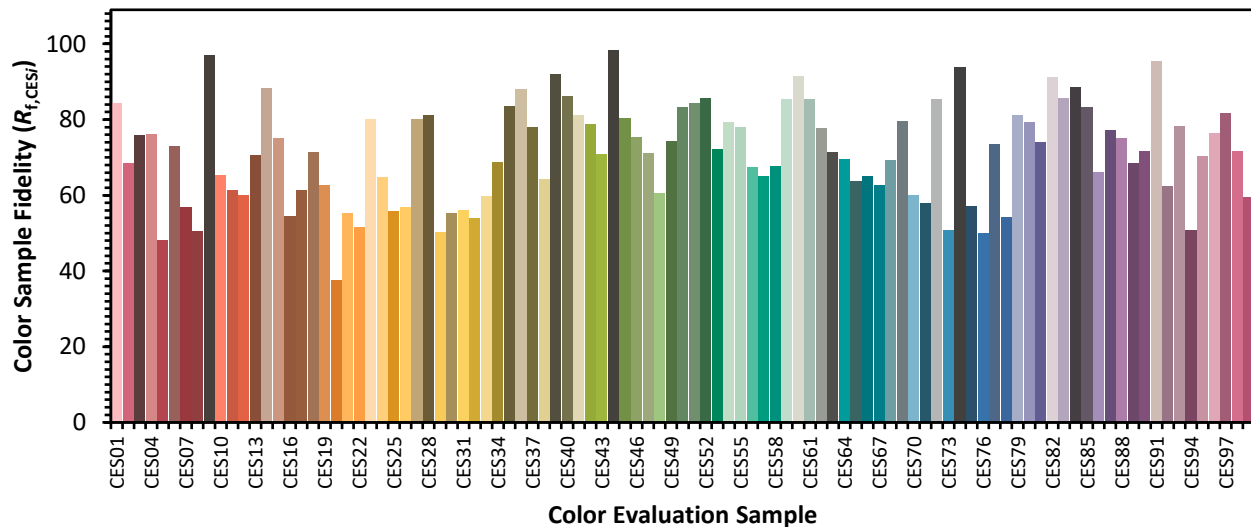


Color Vector Graphics

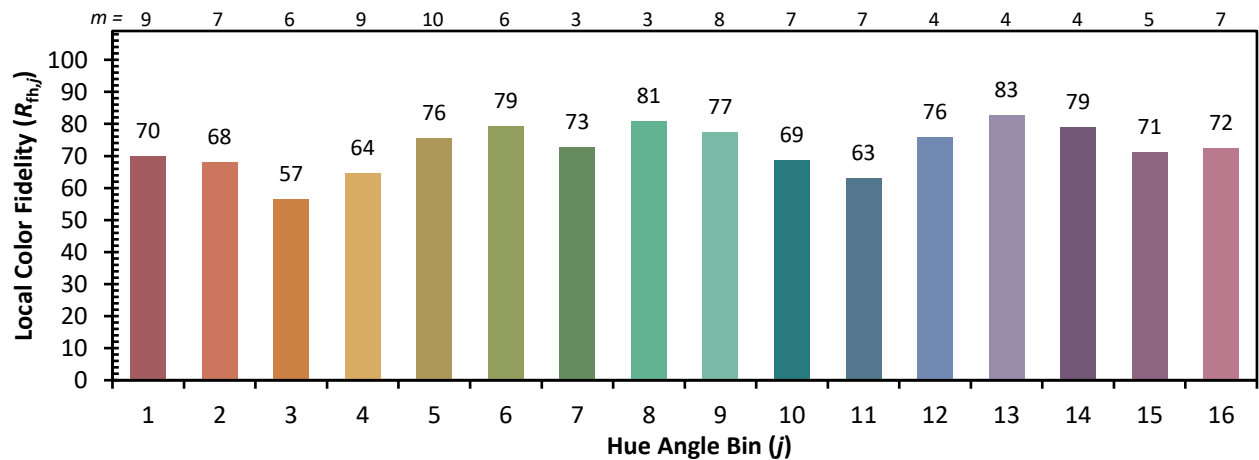
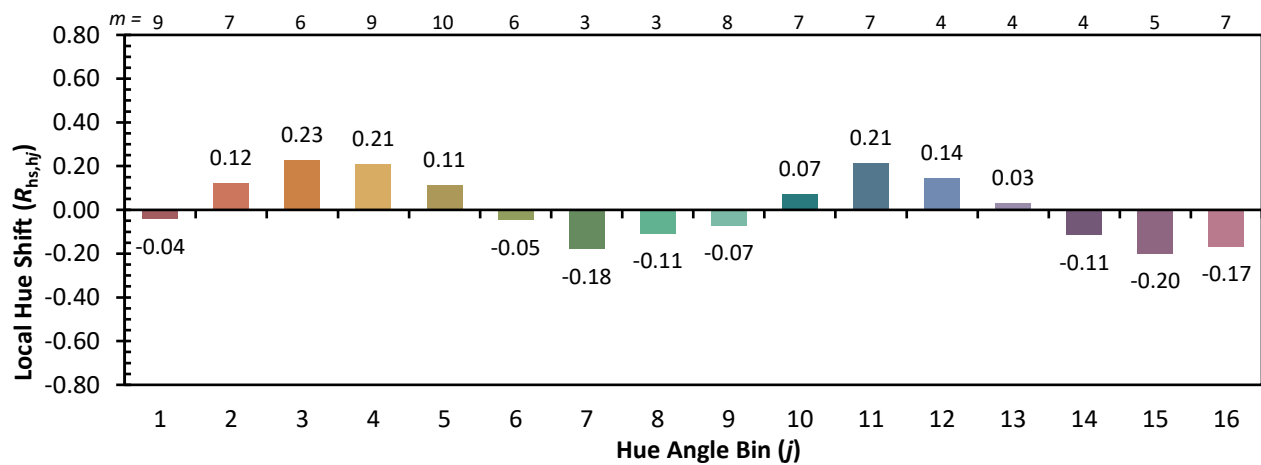
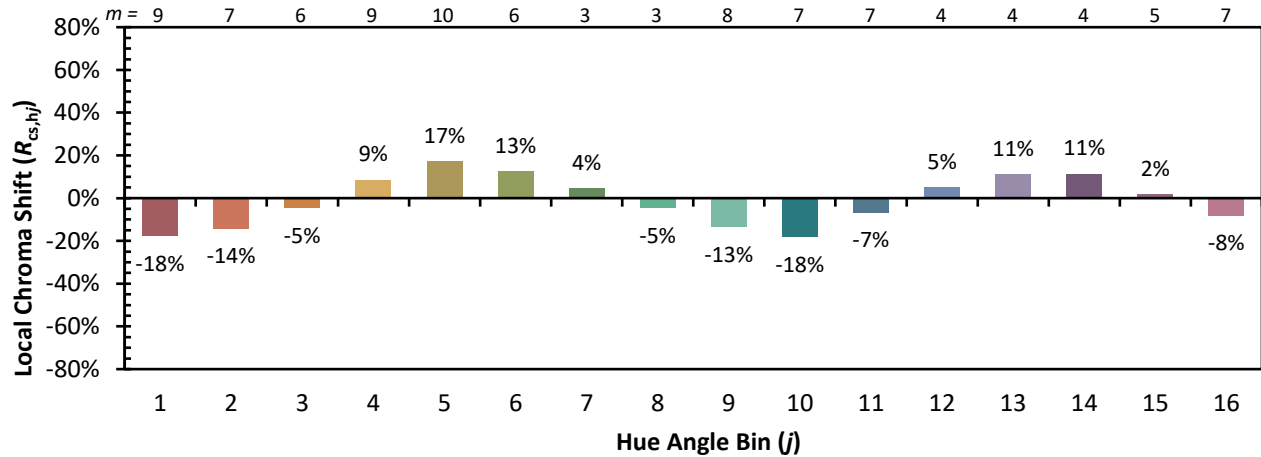


Individual Sample Fidelity Index ($R_{f,i}$)

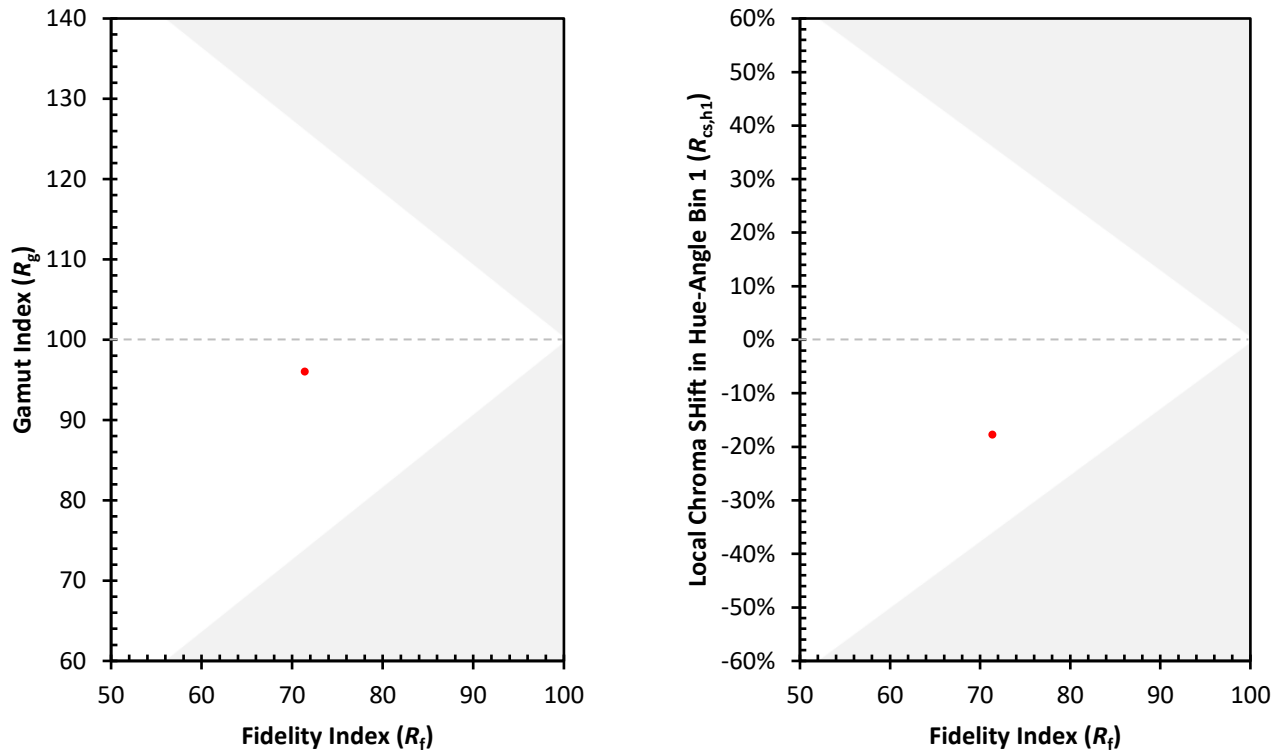
CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82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