

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: P1067972

Luminaire Tested: **NAV-SA2D-735-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067972
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA2D-735-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 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: 9858.3 lumens
Efficiency: N/A
Efficacy: 92.1 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): 107
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

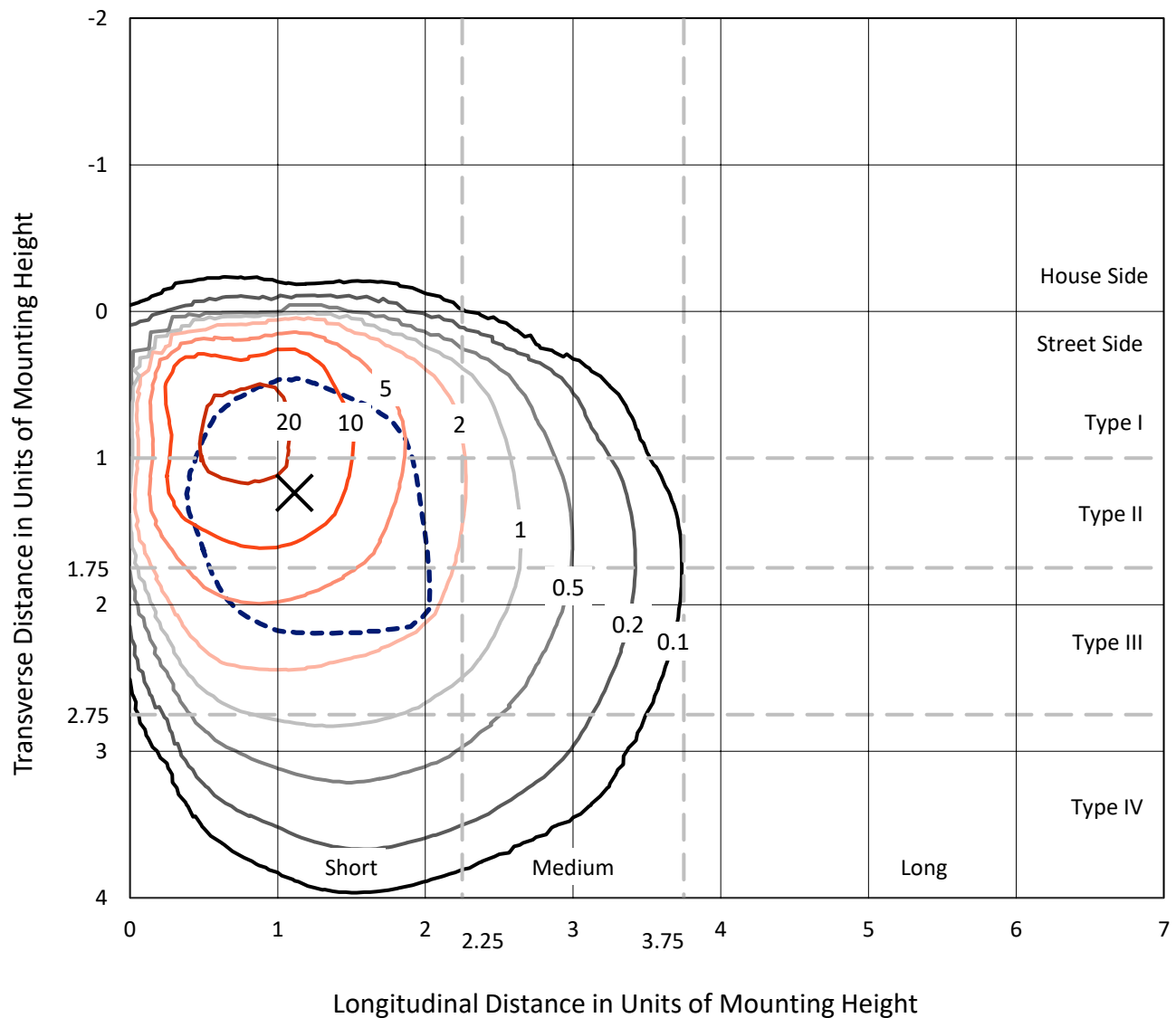


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

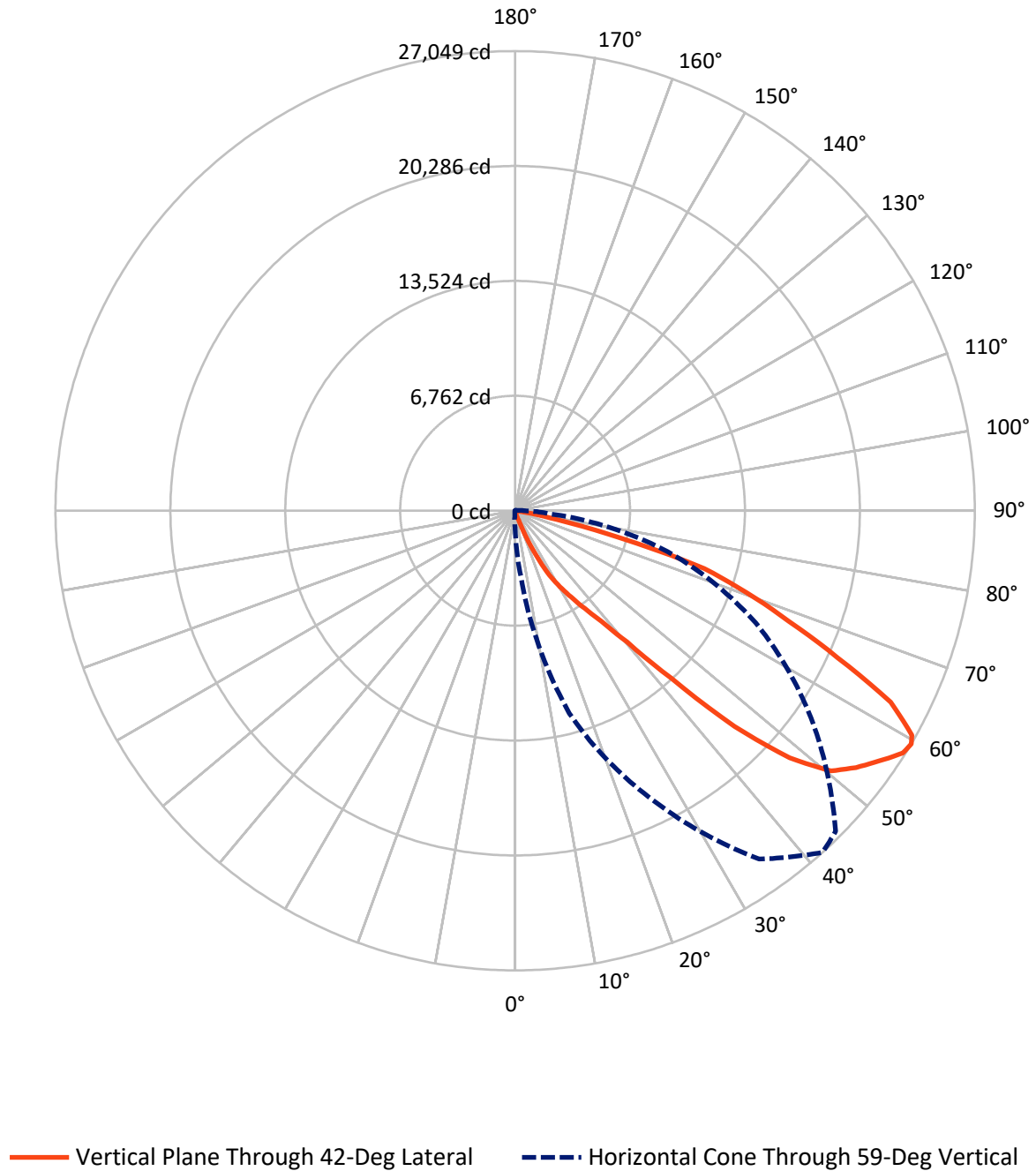


Based on 15 foot mounting height. Maximum calculated value = 29.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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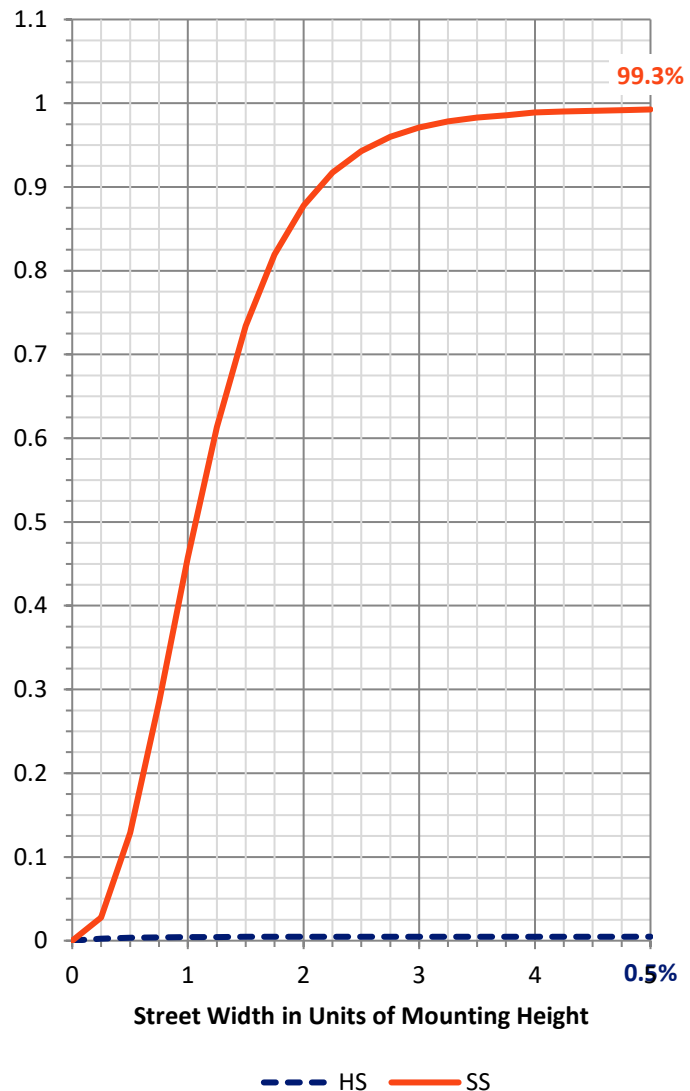
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	47.5	0.0	47.5
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	9810.8	0.0	9810.8
	% Fixture	99.5	0.0	99.5
Total	Lumens	9858.3	0.0	9858.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.9	0.0
10°-20°	14.4	0.1
20°-30°	183.9	1.9
30°-40°	620.0	6.3
40°-50°	1872.6	19.0
50°-60°	3305.5	33.5
60°-70°	2910.6	29.5
70°-80°	926.4	9.4
80°-90°	22.2	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°	9858.3	100.0
0°-180°	9858.3	100.0



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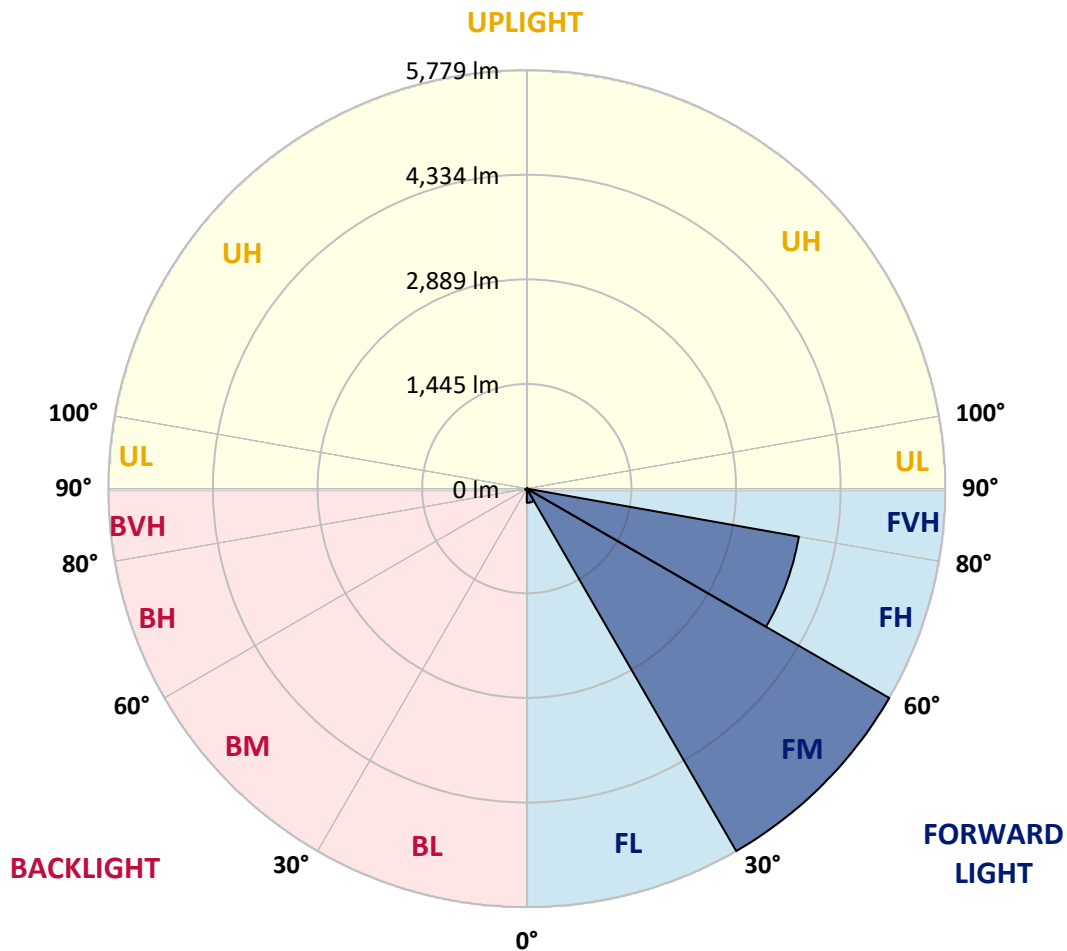
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	195.8	2.0			
FM	(30°-60°)	5778.6	58.6			
FH	(60°-80°)	3815.3	38.7			G2/5000
FVH	(80°-90°)	21.1	0.2			G1/100
BL	(0°-30°)	5.3	0.1	B0/110		
BM	(30°-60°)	19.4	0.2	B0/220		
BH	(60°-80°)	21.7	0.2	B0/110		G0/110
BVH	(80°-90°)	1.1	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°	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8
2.5°	43.3	43.3	40.2	37.1	34.0	30.9	30.9	30.9	27.8	27.8	24.7
5°	49.5	49.5	46.4	43.3	43.3	40.2	40.2	37.1	34.0	34.0	30.9
7.5°	52.5	52.5	52.5	52.5	49.5	49.5	49.5	46.4	43.3	40.2	37.1
10°	55.6	58.7	61.8	61.8	61.8	61.8	61.8	58.7	52.5	49.5	43.3
12.5°	61.8	64.9	71.1	77.3	77.3	80.4	77.3	74.2	68.0	58.7	49.5
15°	68.0	74.2	83.5	95.8	108.2	111.3	111.3	102.0	89.6	71.1	58.7
17.5°	77.3	86.5	111.3	151.5	194.7	228.7	228.7	204.0	142.2	92.7	68.0
20°	83.5	102.0	179.3	364.7	556.4	698.5	670.7	593.5	318.4	145.3	74.2
22.5°	92.7	129.8	380.2	958.2	1483.6	1743.3	1681.5	1276.5	714.0	259.6	89.6
25°	105.1	188.5	754.2	1795.8	2757.1	3038.4	2998.2	2383.1	1301.3	435.8	114.4
27.5°	129.8	278.2	1208.5	2723.1	4067.6	4308.7	4293.3	3489.6	2080.2	701.6	148.4
30°	163.8	404.9	1792.7	3699.8	4936.2	5180.4	5103.1	4299.5	2806.5	1072.5	191.6
32.5°	204.0	565.6	2321.3	4420.0	5736.7	6058.2	5965.5	5004.2	3390.7	1387.8	284.4
35°	265.8	723.3	2843.6	5056.7	6660.9	7068.9	6914.4	5730.5	3894.5	1743.3	343.1
37.5°	296.7	816.0	3322.7	5749.1	7699.5	8255.8	8138.4	6648.5	4407.6	2197.6	420.4
40°	299.8	927.3	3820.4	6651.6	9167.6	10159.8	9949.6	8224.9	5362.7	2781.8	540.9
42.5°	309.1	1094.2	4466.4	8190.9	12051.5	13476.4	13238.4	11124.2	7529.5	3953.3	766.5
45°	352.4	1409.5	5783.1	11068.6	16010.9	18100.4	17825.3	15164.0	10555.5	6157.1	1307.5
47.5°	503.8	2120.4	8092.0	14174.9	20060.0	21726.0	21658.0	18347.6	13297.1	8416.5	2216.2
50°	809.8	3254.7	10719.3	16786.7	22637.8	24068.9	23898.9	19676.7	14861.1	9958.9	2840.5
52.5°	1081.8	4339.6	12369.8	17748.0	23407.5	25113.6	24906.6	20162.0	15272.2	10413.3	3013.6
55°	1149.8	4732.2	12861.3	18044.7	23917.5	25997.6	25697.8	20486.6	15324.7	10088.7	2726.2
57.5°	1115.8	4361.3	12542.9	18335.3	24628.4	26906.4	26507.6	21120.2	15500.9	9538.5	2268.7
59°	1057.1	3903.8	12345.1	18567.1	25020.9	27048.6	26674.6	21259.3	15618.4	9288.2	1990.5
60°	989.1	3594.7	12190.6	18718.6	24996.2	26826.0	26439.6	21194.4	15664.7	9071.8	1857.6
62.5°	763.5	2868.4	11968.0	18610.4	23435.3	24795.3	24575.8	19605.6	14984.7	8379.5	1465.1
65°	593.5	2194.5	11152.0	16598.2	19942.6	20857.5	20789.5	16601.3	12610.9	7223.5	1057.1
67.5°	469.8	1601.1	9430.4	13442.4	16044.9	17346.2	17296.7	13476.4	9572.5	5520.4	760.4
70°	383.3	1140.5	6466.2	10135.1	12833.5	14471.6	14400.6	10846.0	7093.6	3502.0	553.3
72.5°	324.5	729.5	3922.4	7640.7	10710.0	11646.6	11439.5	8750.4	5158.7	1907.1	438.9
75°	275.1	448.2	1944.2	4763.1	6379.6	6373.5	6166.4	4633.3	2769.5	933.5	349.3
77.5°	222.5	315.3	763.5	1307.5	2012.2	2491.3	2451.1	1641.3	828.4	272.0	216.4
80°	145.3	148.4	204.0	358.5	553.3	612.0	695.5	500.7	241.1	129.8	89.6
82.5°	64.9	71.1	92.7	117.5	117.5	108.2	95.8	71.1	52.5	43.3	21.6
85°	15.5	21.6	15.5	18.5	15.5	12.4	12.4	6.2	0.0	0.0	0.0
87.5°	3.1	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°	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8
2.5°	24.7	24.7	24.7	21.6	21.6	21.6	18.5	18.5	18.5	15.5	15.5
5°	30.9	27.8	24.7	24.7	21.6	21.6	18.5	15.5	15.5	15.5	12.4
7.5°	34.0	30.9	27.8	24.7	21.6	18.5	18.5	15.5	12.4	12.4	12.4
10°	40.2	37.1	30.9	24.7	21.6	18.5	15.5	15.5	12.4	9.3	9.3
12.5°	46.4	40.2	34.0	27.8	21.6	18.5	15.5	15.5	12.4	9.3	6.2
15°	52.5	46.4	37.1	27.8	21.6	18.5	15.5	15.5	9.3	6.2	3.1
17.5°	58.7	49.5	37.1	30.9	21.6	18.5	15.5	12.4	6.2	3.1	0.0
20°	61.8	52.5	40.2	30.9	21.6	18.5	15.5	9.3	3.1	0.0	0.0
22.5°	68.0	58.7	43.3	30.9	21.6	15.5	9.3	3.1	0.0	0.0	0.0
25°	80.4	61.8	43.3	30.9	21.6	15.5	6.2	0.0	0.0	0.0	0.0
27.5°	89.6	68.0	43.3	30.9	21.6	12.4	3.1	0.0	0.0	0.0	0.0
30°	105.1	74.2	46.4	30.9	21.6	9.3	3.1	0.0	0.0	0.0	0.0
32.5°	129.8	80.4	46.4	30.9	18.5	9.3	0.0	0.0	0.0	0.0	0.0
35°	157.6	92.7	46.4	30.9	18.5	9.3	0.0	0.0	0.0	0.0	0.0
37.5°	160.7	98.9	46.4	30.9	18.5	6.2	0.0	0.0	0.0	0.0	0.0
40°	166.9	92.7	49.5	30.9	18.5	6.2	0.0	0.0	0.0	0.0	0.0
42.5°	191.6	86.5	52.5	30.9	18.5	6.2	0.0	0.0	0.0	0.0	0.0
45°	284.4	89.6	52.5	34.0	18.5	9.3	0.0	0.0	0.0	0.0	0.0
47.5°	494.5	92.7	49.5	34.0	18.5	9.3	0.0	0.0	0.0	0.0	0.0
50°	633.6	108.2	49.5	37.1	21.6	6.2	0.0	0.0	0.0	0.0	0.0
52.5°	673.8	126.7	49.5	40.2	27.8	3.1	0.0	0.0	0.0	0.0	0.0
55°	655.3	148.4	52.5	43.3	34.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	605.8	160.7	55.6	46.4	37.1	0.0	0.0	0.0	0.0	0.0	0.0
59°	553.3	170.0	64.9	49.5	37.1	0.0	0.0	0.0	0.0	0.0	0.0
60°	510.0	179.3	68.0	52.5	37.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	411.1	191.6	74.2	61.8	30.9	0.0	0.0	0.0	0.0	0.0	0.0
65°	358.5	200.9	77.3	68.0	27.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	327.6	207.1	83.5	71.1	24.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	302.9	204.0	89.6	68.0	21.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	275.1	194.7	108.2	61.8	18.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	247.3	176.2	117.5	55.6	12.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	179.3	148.4	108.2	49.5	6.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	77.3	80.4	77.3	37.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	15.5	18.5	15.5	9.3	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°	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8
2.5°	15.5	15.5	15.5	15.5	18.5	18.5	24.7	30.9	37.1	40.2	40.2
5°	12.4	12.4	12.4	12.4	12.4	15.5	18.5	24.7	34.0	37.1	37.1
7.5°	9.3	9.3	9.3	9.3	9.3	9.3	15.5	21.6	30.9	34.0	37.1
10°	9.3	6.2	6.2	3.1	3.1	6.2	9.3	18.5	27.8	30.9	34.0
12.5°	6.2	3.1	3.1	0.0	0.0	3.1	6.2	15.5	24.7	27.8	30.9
15°	3.1	0.0	0.0	0.0	0.0	0.0	3.1	12.4	21.6	24.7	30.9
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3	18.5	24.7	27.8
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	15.5	21.6	24.7
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	12.4	18.5	21.6
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3	12.4	15.5
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	9.3	12.4
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	9.3	12.4
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	6.2	9.3
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	6.2	9.3
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	6.2	6.2
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	6.2
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	6.2
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	6.2
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	6.2
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	6.2
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	3.1
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	3.1
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	3.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	6.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	6.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	3.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	3.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	3.1
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°	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8
2.5°	43.3	43.3	40.2	37.1	37.1	37.1	40.2	43.3	43.3	43.3
5°	40.2	40.2	37.1	37.1	37.1	37.1	40.2	46.4	49.5	49.5
7.5°	40.2	40.2	37.1	37.1	37.1	37.1	40.2	46.4	49.5	52.5
10°	37.1	37.1	37.1	37.1	34.0	37.1	40.2	46.4	55.6	55.6
12.5°	37.1	37.1	37.1	37.1	34.0	37.1	43.3	49.5	58.7	61.8
15°	37.1	37.1	37.1	34.0	34.0	37.1	43.3	52.5	61.8	68.0
17.5°	34.0	37.1	37.1	34.0	34.0	37.1	43.3	52.5	68.0	77.3
20°	30.9	34.0	37.1	34.0	34.0	34.0	43.3	52.5	71.1	83.5
22.5°	27.8	30.9	34.0	34.0	30.9	34.0	43.3	55.6	77.3	92.7
25°	24.7	27.8	27.8	30.9	30.9	34.0	43.3	55.6	80.4	105.1
27.5°	18.5	21.6	24.7	27.8	27.8	34.0	43.3	58.7	86.5	129.8
30°	15.5	18.5	21.6	24.7	27.8	34.0	43.3	58.7	92.7	163.8
32.5°	15.5	18.5	21.6	24.7	27.8	30.9	43.3	61.8	102.0	204.0
35°	12.4	15.5	18.5	24.7	24.7	30.9	43.3	61.8	111.3	265.8
37.5°	12.4	15.5	18.5	24.7	24.7	30.9	43.3	61.8	136.0	296.7
40°	9.3	12.4	15.5	24.7	24.7	30.9	46.4	64.9	139.1	299.8
42.5°	9.3	12.4	15.5	21.6	24.7	30.9	46.4	64.9	129.8	309.1
45°	9.3	12.4	15.5	24.7	27.8	34.0	46.4	68.0	126.7	352.4
47.5°	9.3	12.4	15.5	24.7	30.9	34.0	46.4	68.0	129.8	503.8
50°	9.3	12.4	15.5	24.7	34.0	34.0	46.4	68.0	142.2	809.8
52.5°	6.2	9.3	12.4	21.6	27.8	37.1	49.5	64.9	151.5	1081.8
55°	6.2	6.2	9.3	18.5	24.7	40.2	52.5	64.9	176.2	1149.8
57.5°	6.2	6.2	9.3	15.5	21.6	43.3	55.6	64.9	204.0	1115.8
59°	6.2	6.2	6.2	15.5	18.5	43.3	55.6	68.0	207.1	1057.1
60°	6.2	6.2	6.2	12.4	18.5	43.3	58.7	71.1	210.2	989.1
62.5°	3.1	3.1	3.1	12.4	15.5	43.3	64.9	86.5	216.4	763.5
65°	6.2	6.2	3.1	9.3	15.5	37.1	74.2	92.7	219.5	593.5
67.5°	6.2	6.2	6.2	12.4	15.5	37.1	77.3	95.8	219.5	469.8
70°	6.2	6.2	6.2	12.4	18.5	37.1	77.3	98.9	216.4	383.3
72.5°	6.2	6.2	6.2	12.4	18.5	34.0	71.1	102.0	207.1	324.5
75°	6.2	6.2	6.2	9.3	15.5	30.9	68.0	111.3	188.5	275.1
77.5°	6.2	6.2	6.2	6.2	12.4	24.7	61.8	123.6	166.9	222.5
80°	9.3	6.2	6.2	6.2	9.3	21.6	58.7	120.5	139.1	145.3
82.5°	9.3	6.2	6.2	3.1	6.2	15.5	46.4	92.7	71.1	64.9
85°	6.2	6.2	6.2	3.1	3.1	9.3	21.6	27.8	21.6	15.5
87.5°	6.2	6.2	6.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1
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

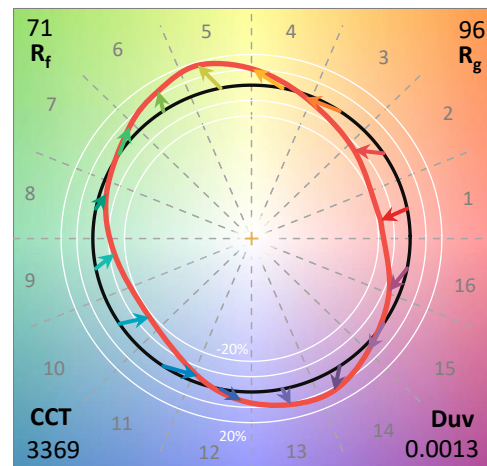
Data in this report applies to families of products including GSS-SB1A-735-U-5WQ

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	CRI (Ra):	70.1		
CIE u':	0.2386	R1:	66.6	R9:	-40.2
CIE v':	0.5156	R2:	77.6	R10:	49.1
Duv:	0.0013	R3:	88.5	R11:	66.3
CIE x:	0.4143	R4:	69.5	R12:	45.7
CIE y:	0.3980	R5:	66.4	R13:	68.0
CIE z:	0.1877	R6:	69.6	R14:	93.4
Peak Wavelength (nm):	590	R7:	77.5	R15:	57.6
Dominant Wavelength (nm):	580	R8:	44.9		
Purity:	43.80166				
Rf:	71.4				
Rg:	96				



Test Conditions

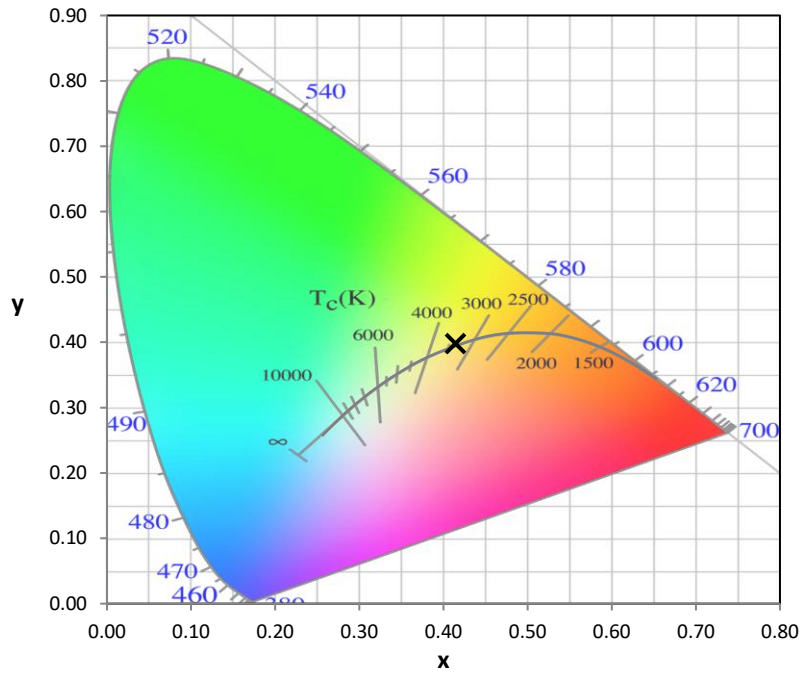
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-5

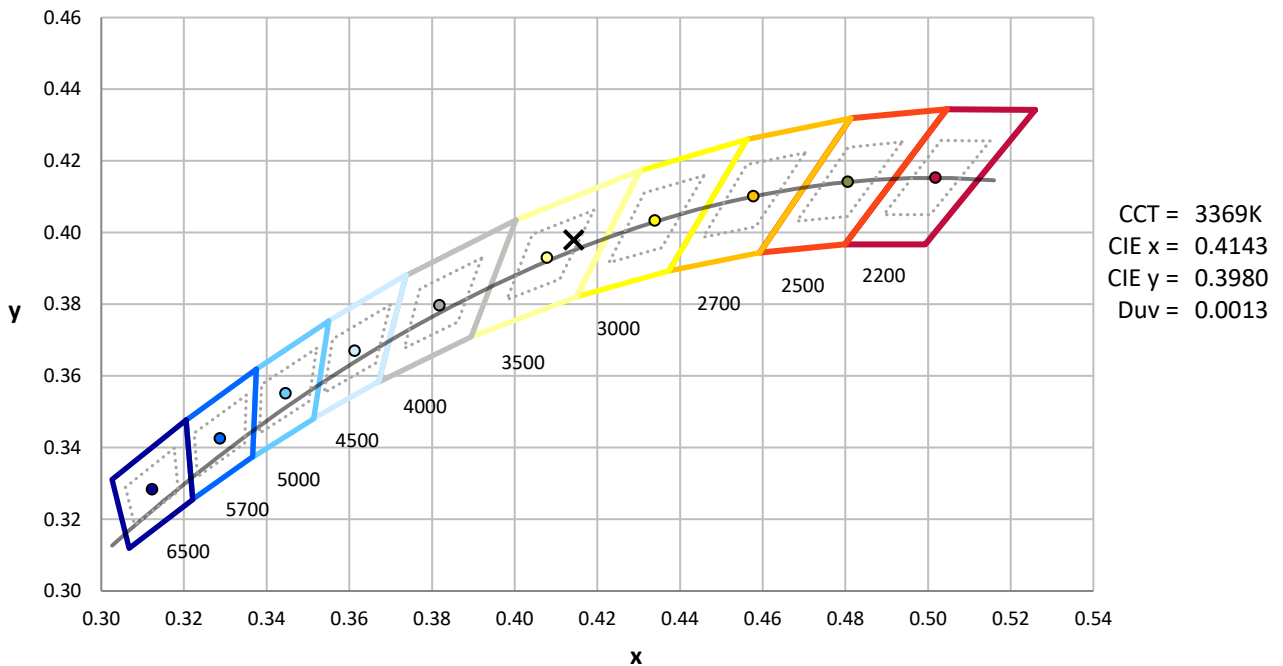
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



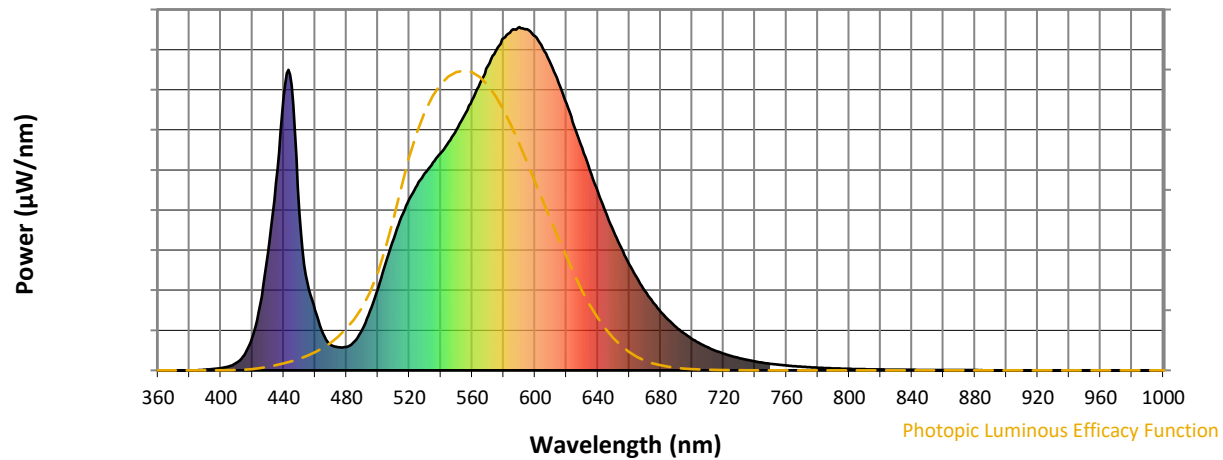
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-5

Photopic Flux vs. Wavelength

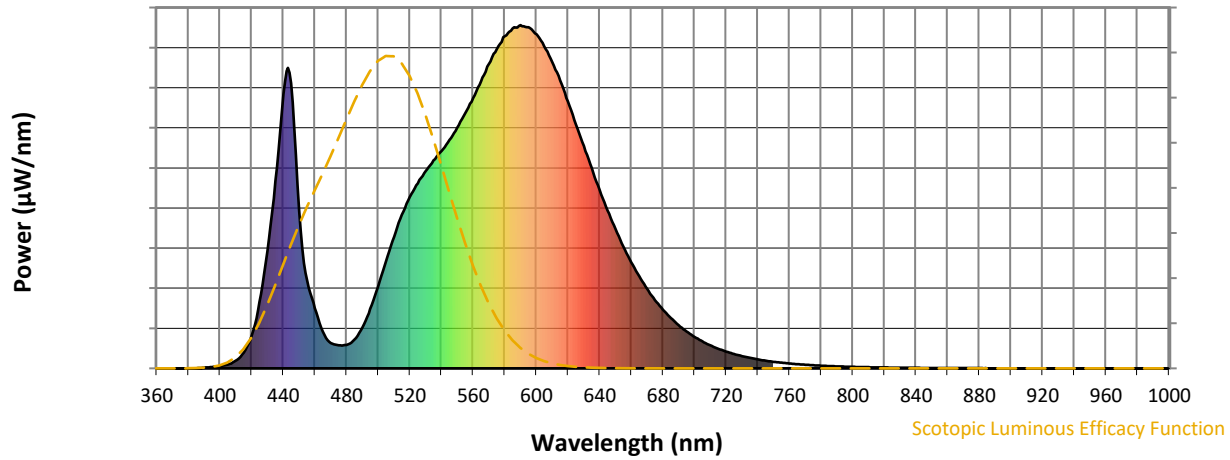


Photopic Lumens: NR

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

REPORT NUMBER: SP1-2407-184-5

Scotopic Flux vs. Wavelength



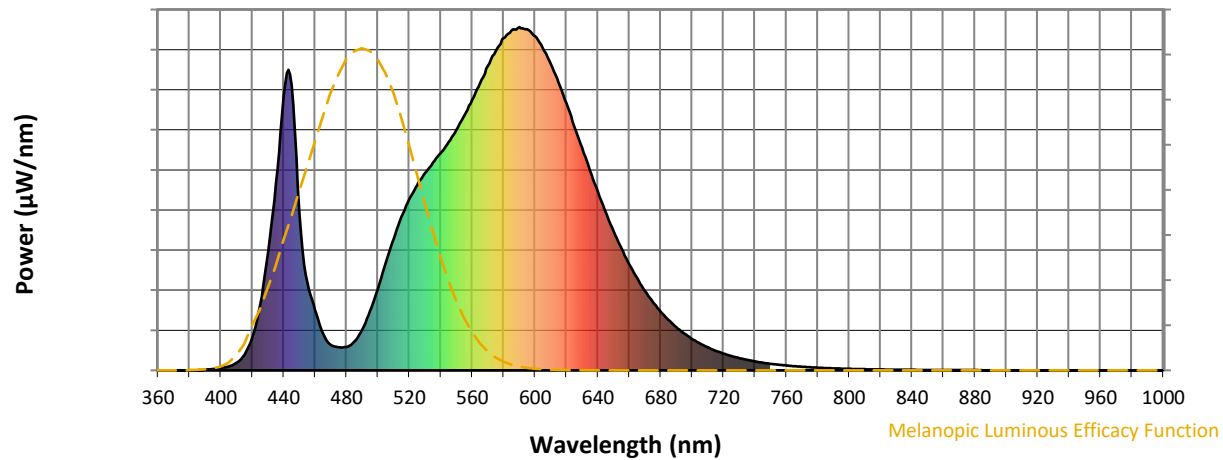
Scotopic Lumens: NR

S/P: 1.29

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

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.36

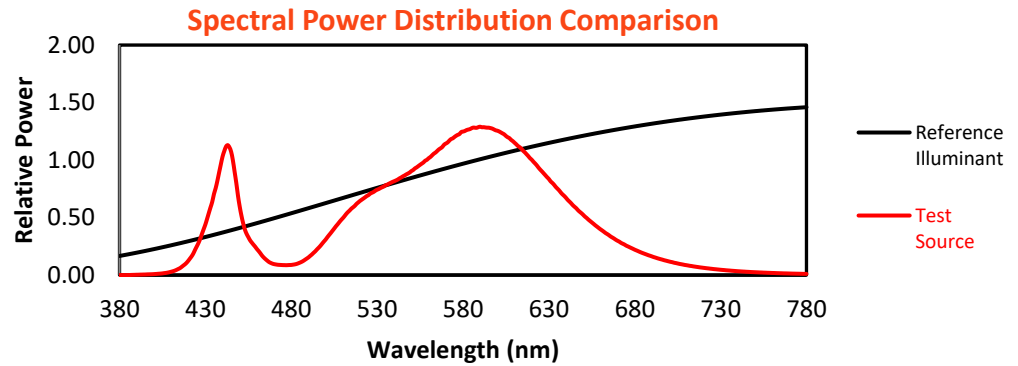
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630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

REPORT NUMBER: SP1-2407-184-5

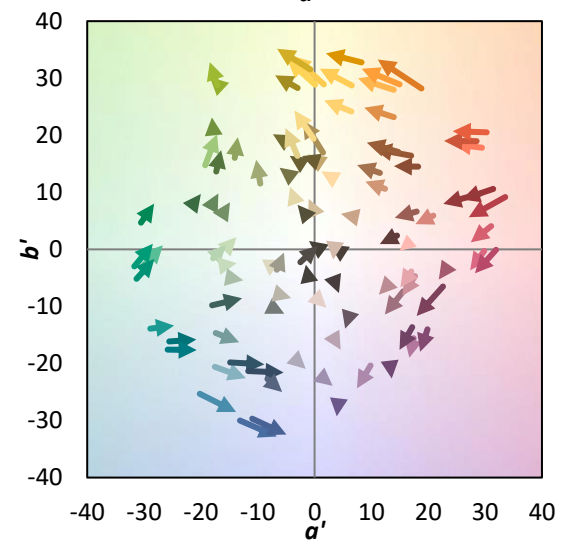
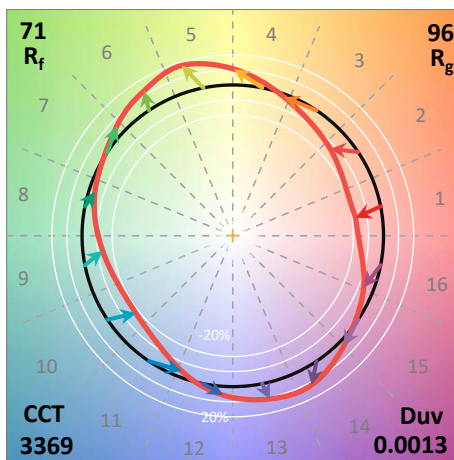
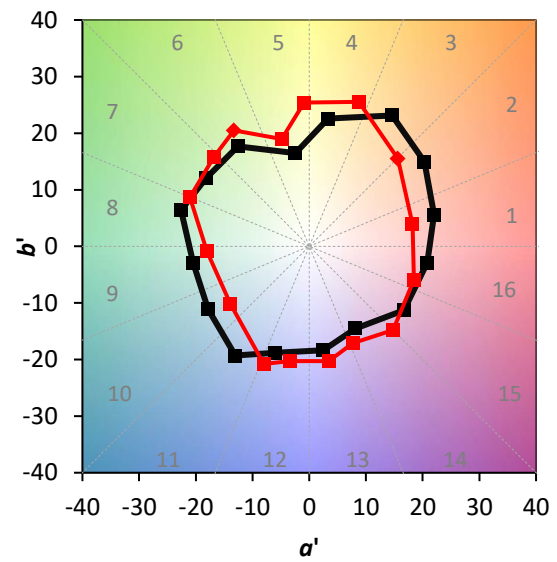
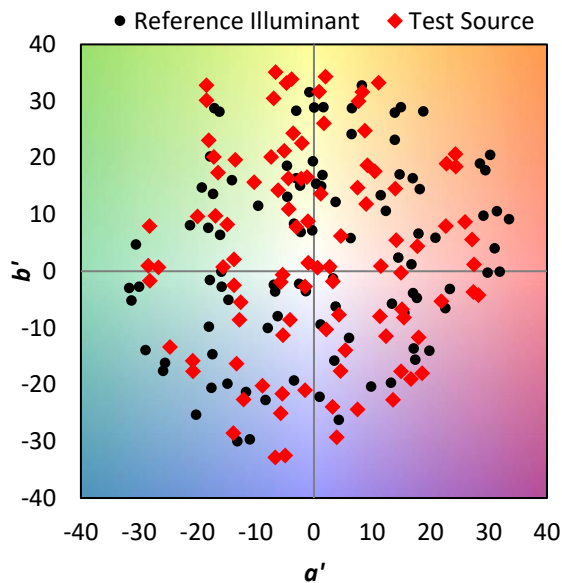
TM-30-18

Summary

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

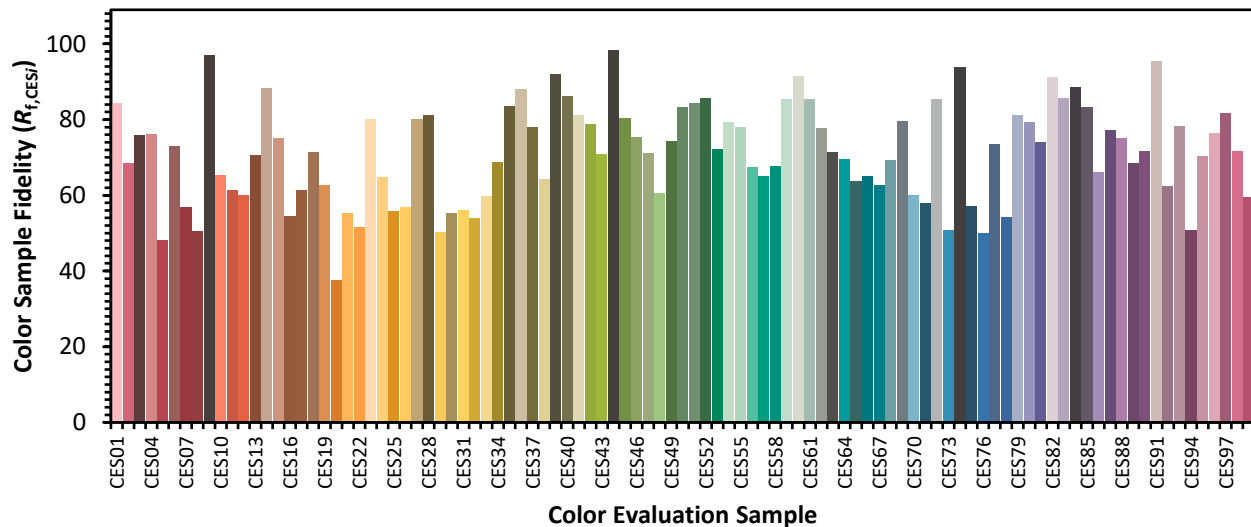


Color Vector Graphics

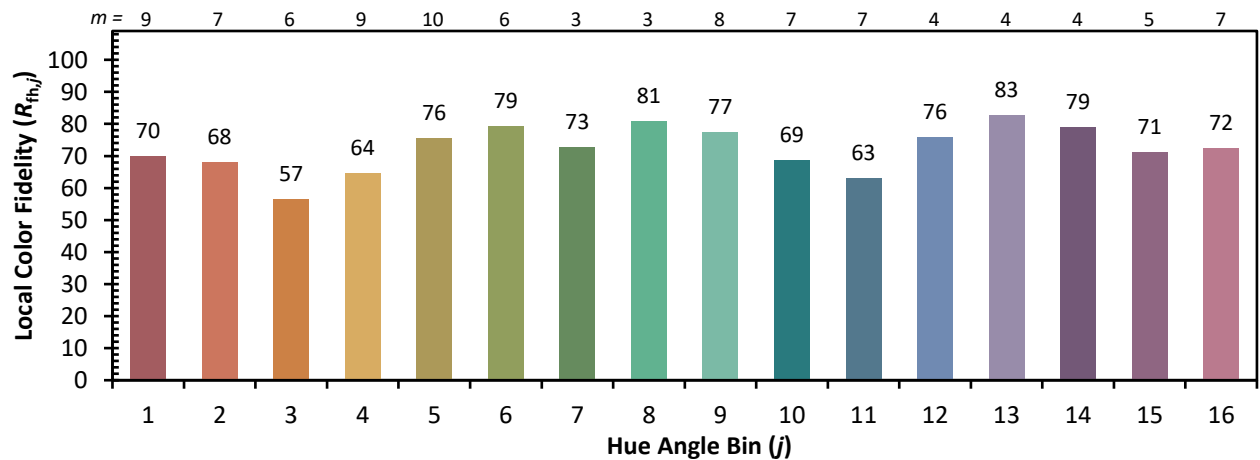
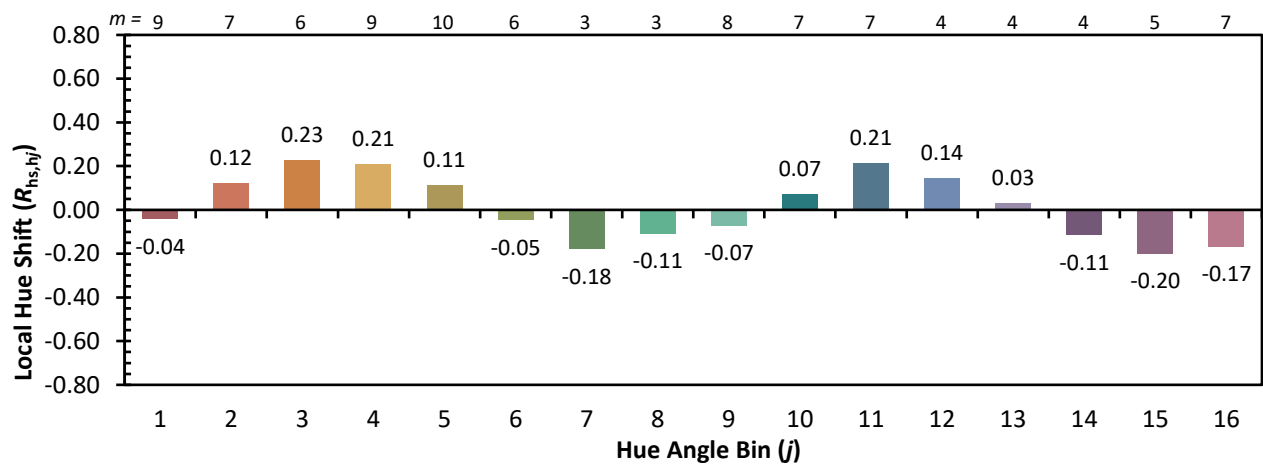
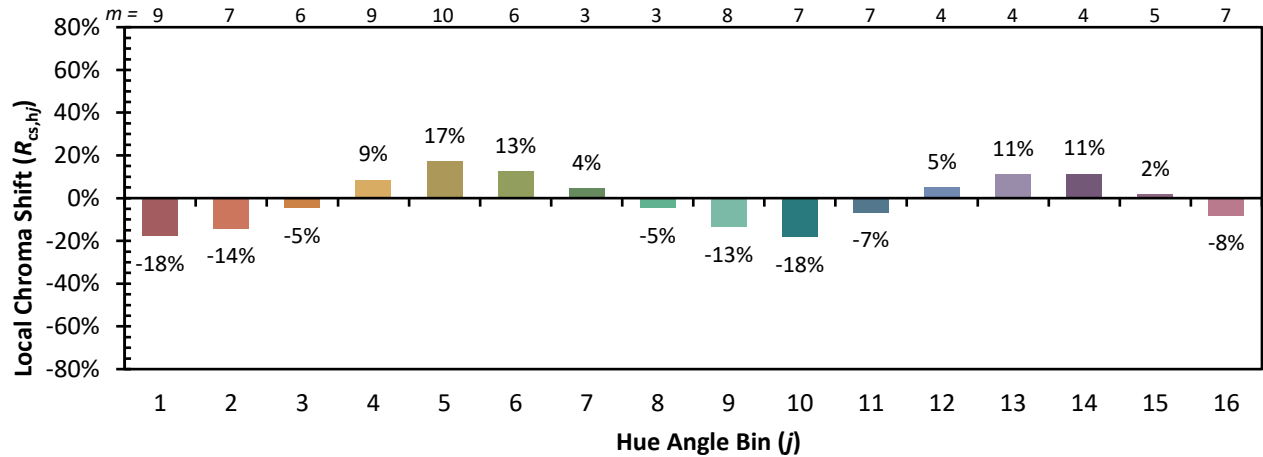


Individual Sample Fidelity Index ($R_{f,i}$)

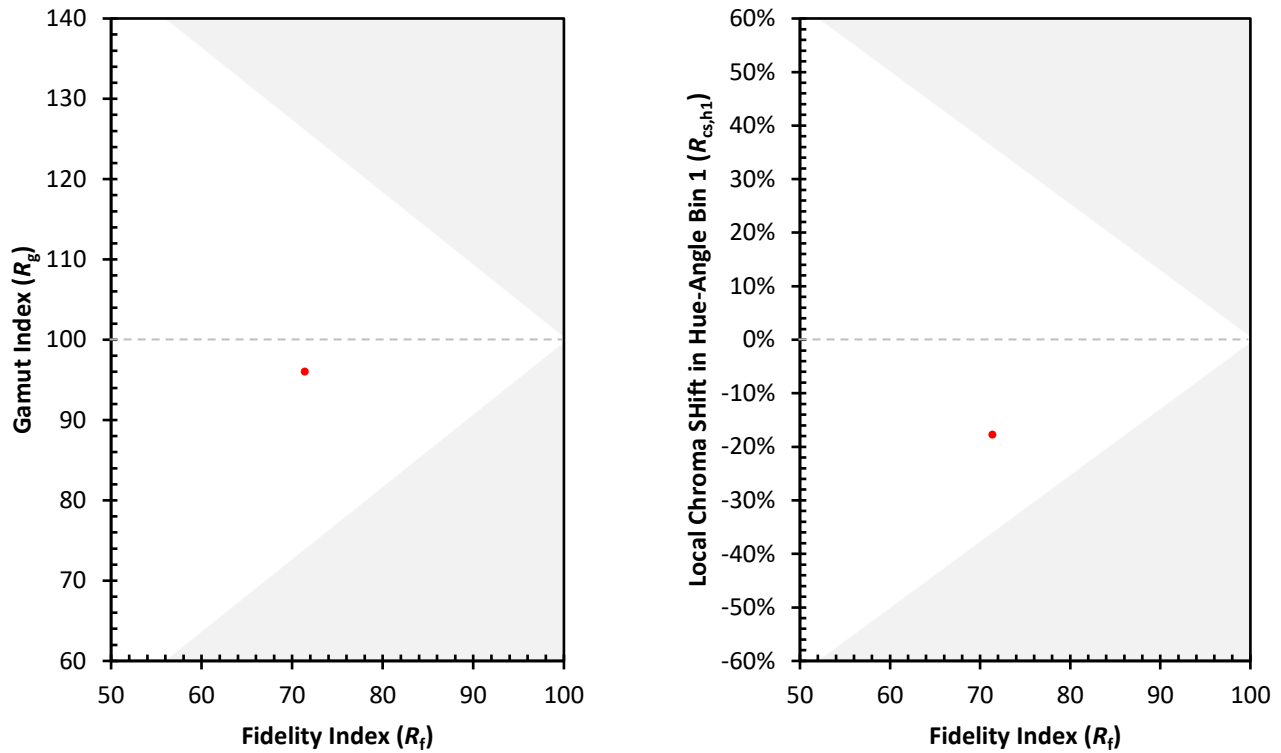
CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82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



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)