

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: P1067997

Luminaire Tested: **NAV-SA3A-750-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067997
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA3A-750-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 3xLight Square PACKAGE
70CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9264.5 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 82
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



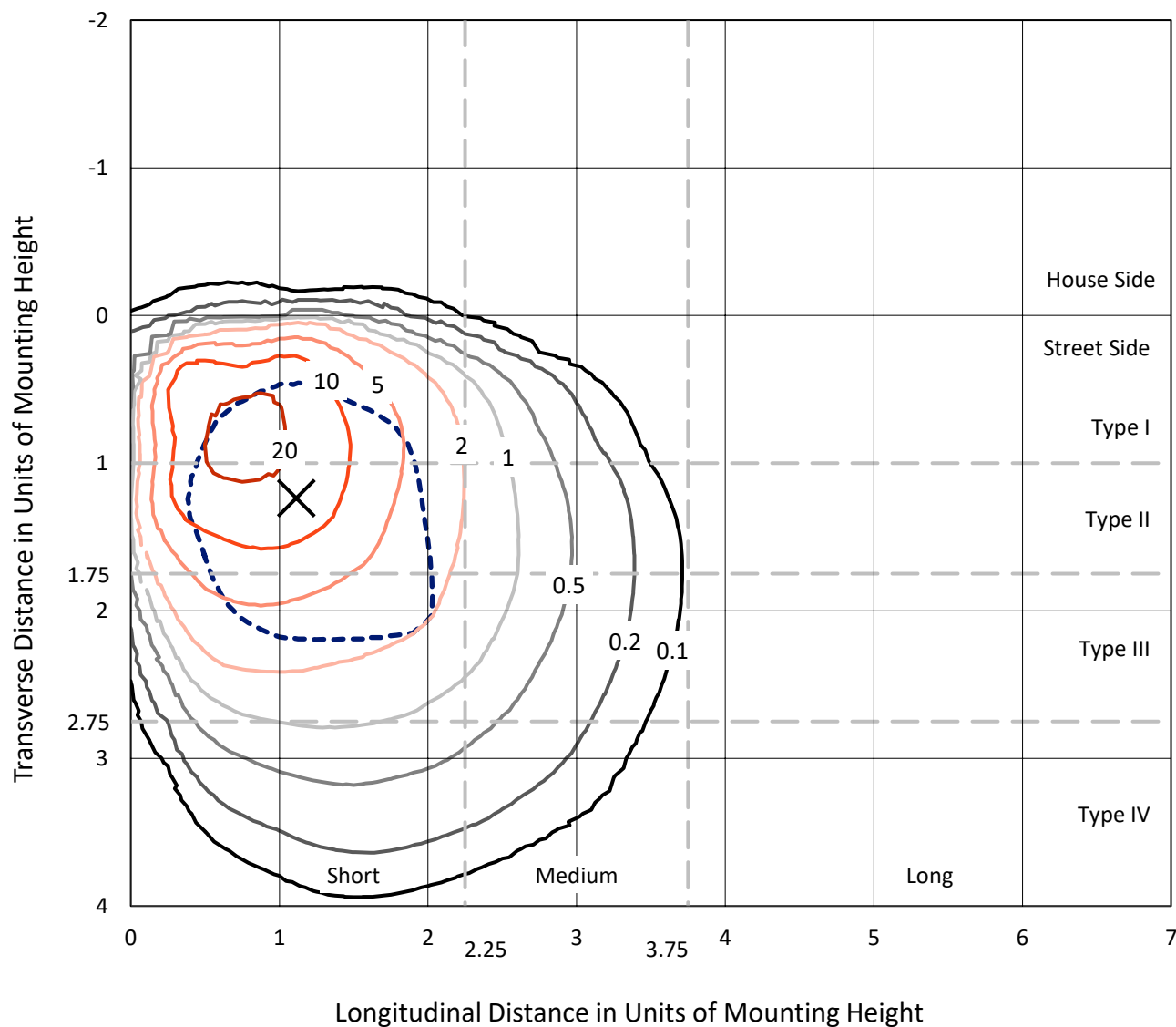
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

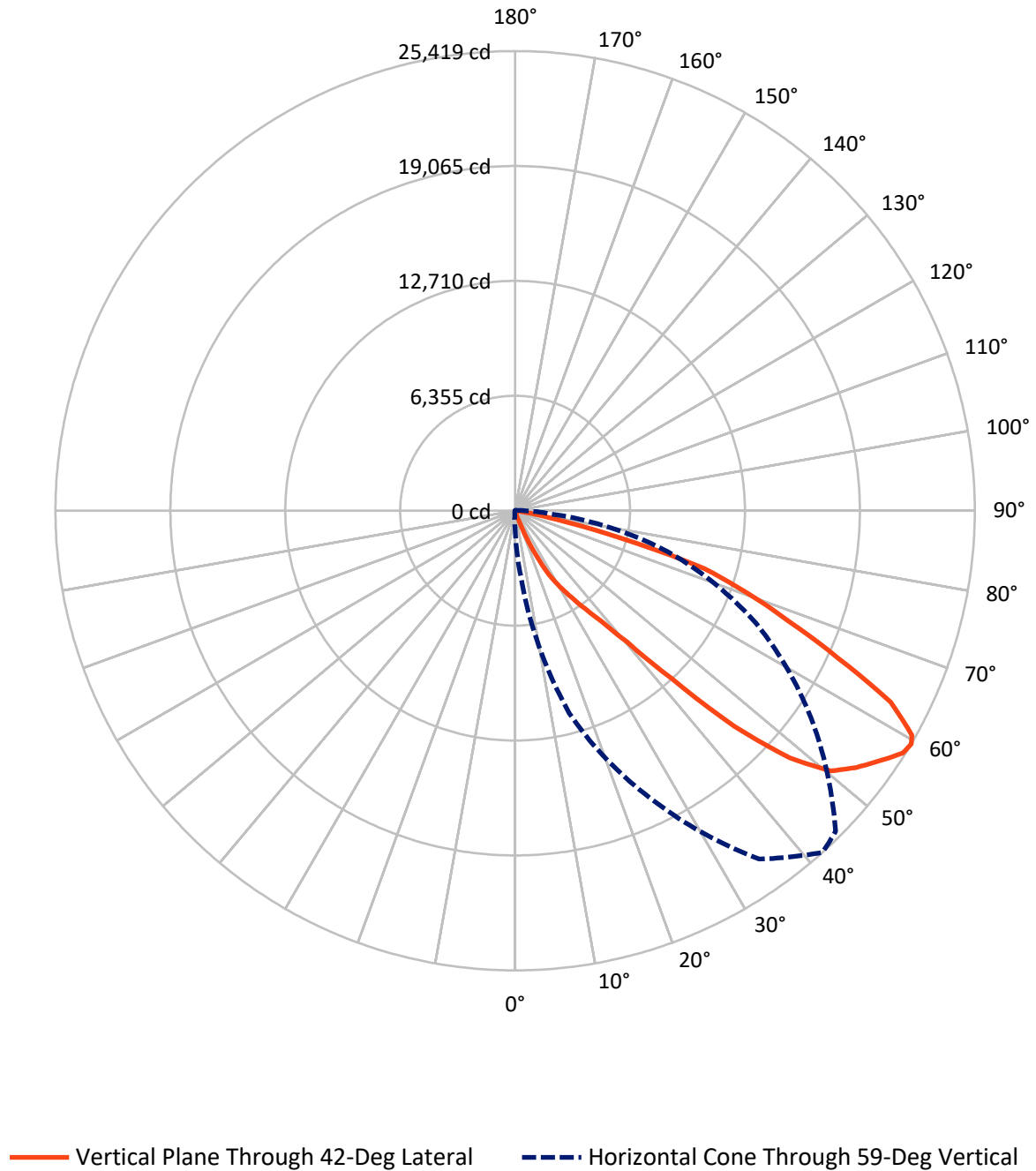


Based on 15 foot mounting height. Maximum calculated value = 27.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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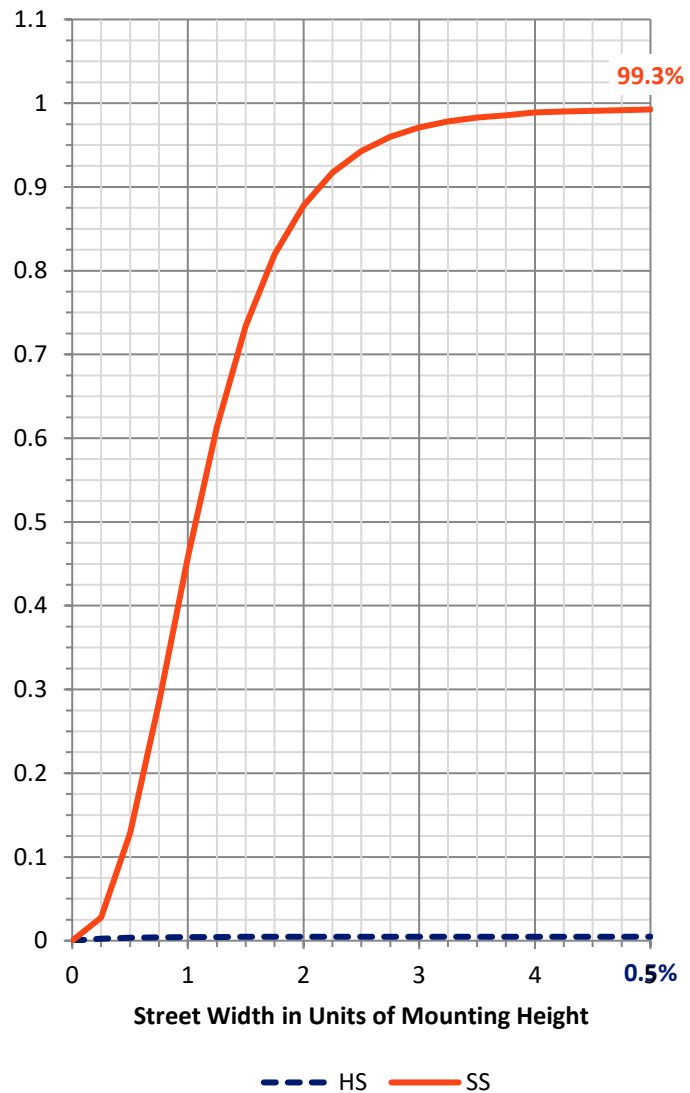
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	44.6	0.0	44.6
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	9219.9	0.0	9219.9
	% Fixture	99.5	0.0	99.5
Total	Lumens	9264.5	0.0	9264.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.7	0.0
10°-20°	13.5	0.1
20°-30°	172.8	1.9
30°-40°	582.6	6.3
40°-50°	1759.8	19.0
50°-60°	3106.4	33.5
60°-70°	2735.2	29.5
70°-80°	870.6	9.4
80°-90°	20.8	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°	9264.5	100.0
0°-180°	9264.5	100.0



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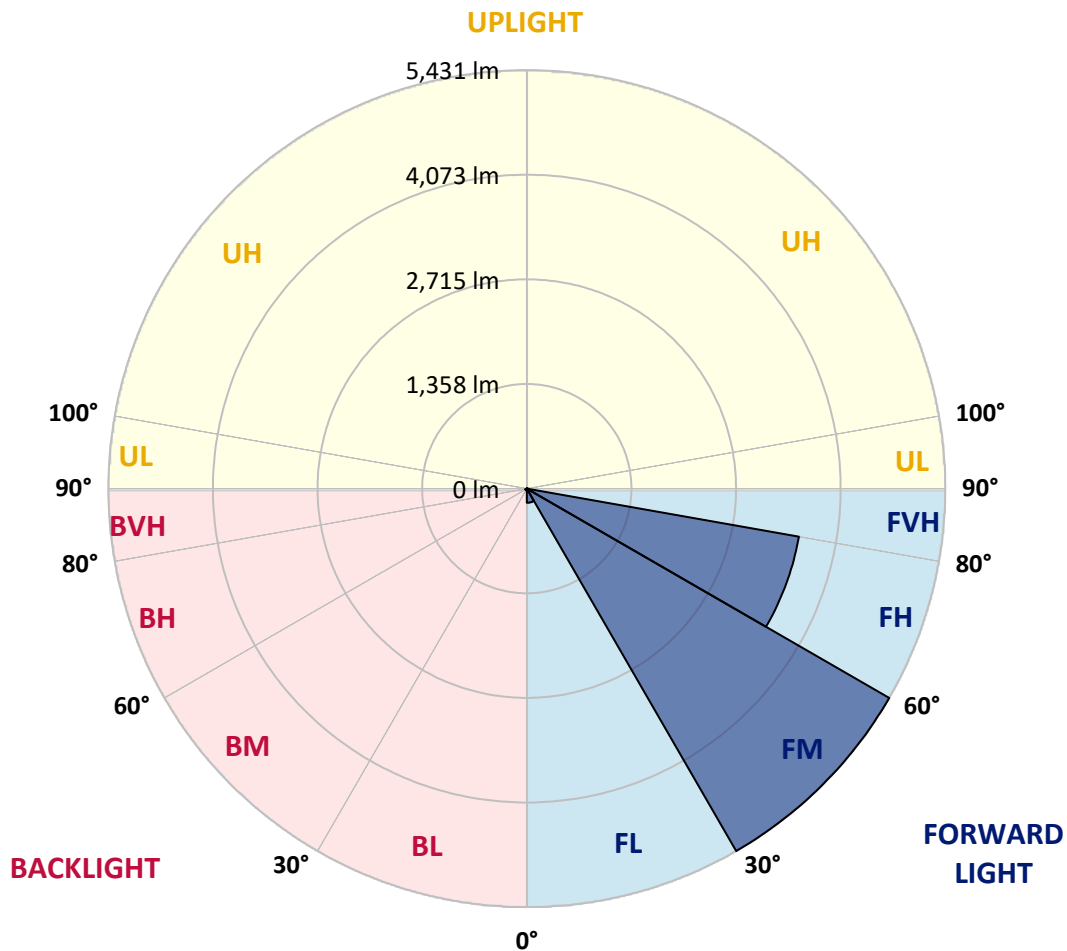
CATALOG NUMBER: NAV-SA3A-750-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	184.1	2.0			
FM	(30°-60°)	5430.6	58.6			
FH	(60°-80°)	3585.5	38.7			G2/5000
FVH	(80°-90°)	19.8	0.2			G1/100
BL	(0°-30°)	5.0	0.1	B0/110		
BM	(30°-60°)	18.2	0.2	B0/220		
BH	(60°-80°)	20.4	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°	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1
2.5°	40.7	40.7	37.8	34.9	32.0	29.0	29.0	29.0	26.1	26.1	23.2
5°	46.5	46.5	43.6	40.7	40.7	37.8	37.8	34.9	32.0	32.0	29.0
7.5°	49.4	49.4	49.4	49.4	46.5	46.5	46.5	43.6	40.7	37.8	34.9
10°	52.3	55.2	58.1	58.1	58.1	58.1	58.1	55.2	49.4	46.5	40.7
12.5°	58.1	61.0	66.8	72.6	72.6	75.5	72.6	69.7	63.9	55.2	46.5
15°	63.9	69.7	78.4	90.0	101.7	104.6	104.6	95.9	84.2	66.8	55.2
17.5°	72.6	81.3	104.6	142.3	183.0	215.0	215.0	191.7	133.6	87.1	63.9
20°	78.4	95.9	168.5	342.8	522.9	656.5	630.3	557.7	299.2	136.5	69.7
22.5°	87.1	122.0	357.3	900.5	1394.3	1638.3	1580.2	1199.7	671.0	244.0	84.2
25°	98.8	177.2	708.8	1687.7	2591.0	2855.4	2817.6	2239.6	1222.9	409.6	107.5
27.5°	122.0	261.4	1135.8	2559.1	3822.6	4049.2	4034.7	3279.5	1954.9	659.4	139.4
30°	154.0	380.5	1684.8	3477.0	4638.9	4868.4	4795.7	4040.5	2637.5	1007.9	180.1
32.5°	191.7	531.6	2181.5	4153.8	5391.2	5693.3	5606.2	4702.8	3186.5	1304.2	267.2
35°	249.8	679.7	2672.4	4752.2	6259.7	6643.1	6497.9	5385.4	3660.0	1638.3	322.4
37.5°	278.9	766.9	3122.6	5402.8	7235.7	7758.6	7648.2	6248.1	4142.2	2065.3	395.0
40°	281.8	871.4	3590.3	6251.0	8615.5	9547.9	9350.4	7729.5	5039.7	2614.3	508.3
42.5°	290.5	1028.3	4197.4	7697.6	11325.6	12664.7	12441.0	10454.2	7076.0	3715.2	720.4
45°	331.1	1324.6	5434.8	10401.9	15046.6	17010.2	16751.7	14250.7	9919.7	5786.2	1228.7
47.5°	473.5	1992.7	7604.6	13321.2	18851.8	20417.4	20353.5	17242.6	12496.2	7909.6	2082.7
50°	761.0	3058.7	10073.7	15775.7	21274.3	22619.2	22459.5	18491.6	13966.0	9359.1	2669.5
52.5°	1016.7	4078.3	11624.8	16679.0	21997.6	23601.0	23406.4	18947.6	14352.3	9786.1	2832.1
55°	1080.6	4447.2	12086.6	16957.9	22476.9	24431.8	24150.0	19252.6	14401.7	9481.1	2562.0
57.5°	1048.6	4098.6	11787.4	17230.9	23145.0	25285.8	24911.1	19848.1	14567.3	8964.0	2132.1
59°	993.4	3668.7	11601.5	17448.8	23513.9	25419.4	25067.9	19978.8	14677.7	8728.8	1870.7
60°	929.5	3378.2	11456.3	17591.1	23490.7	25210.3	24847.2	19917.8	14721.2	8525.4	1745.8
62.5°	717.5	2695.6	11247.2	17489.5	22023.8	23301.9	23095.6	18424.8	14082.2	7874.8	1376.8
65°	557.7	2062.4	10480.3	15598.5	18741.4	19601.2	19537.3	15601.4	11851.4	6788.4	993.4
67.5°	441.5	1504.7	8862.4	12632.7	15078.5	16301.4	16254.9	12664.7	8996.0	5187.9	714.6
70°	360.2	1071.9	6076.7	9524.7	12060.5	13600.0	13533.2	10192.7	6666.4	3291.1	519.9
72.5°	305.0	685.5	3686.1	7180.5	10064.9	10945.1	10750.5	8223.3	4848.0	1792.2	412.5
75°	258.5	421.2	1827.1	4476.2	5995.4	5989.6	5795.0	4354.2	2602.7	877.2	328.2
77.5°	209.1	296.3	717.5	1228.7	1891.0	2341.2	2303.5	1542.4	778.5	255.6	203.3
80°	136.5	139.4	191.7	337.0	519.9	575.1	653.6	470.6	226.6	122.0	84.2
82.5°	61.0	66.8	87.1	110.4	110.4	101.7	90.0	66.8	49.4	40.7	20.3
85°	14.5	20.3	14.5	17.4	14.5	11.6	11.6	5.8	0.0	0.0	0.0
87.5°	2.9	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°	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1
2.5°	23.2	23.2	23.2	20.3	20.3	20.3	17.4	17.4	17.4	14.5	14.5
5°	29.0	26.1	23.2	23.2	20.3	20.3	17.4	14.5	14.5	14.5	11.6
7.5°	32.0	29.0	26.1	23.2	20.3	17.4	17.4	14.5	11.6	11.6	11.6
10°	37.8	34.9	29.0	23.2	20.3	17.4	14.5	14.5	11.6	8.7	8.7
12.5°	43.6	37.8	32.0	26.1	20.3	17.4	14.5	14.5	11.6	8.7	5.8
15°	49.4	43.6	34.9	26.1	20.3	17.4	14.5	14.5	8.7	5.8	2.9
17.5°	55.2	46.5	34.9	29.0	20.3	17.4	14.5	11.6	5.8	2.9	0.0
20°	58.1	49.4	37.8	29.0	20.3	17.4	14.5	8.7	2.9	0.0	0.0
22.5°	63.9	55.2	40.7	29.0	20.3	14.5	8.7	2.9	0.0	0.0	0.0
25°	75.5	58.1	40.7	29.0	20.3	14.5	5.8	0.0	0.0	0.0	0.0
27.5°	84.2	63.9	40.7	29.0	20.3	11.6	2.9	0.0	0.0	0.0	0.0
30°	98.8	69.7	43.6	29.0	20.3	8.7	2.9	0.0	0.0	0.0	0.0
32.5°	122.0	75.5	43.6	29.0	17.4	8.7	0.0	0.0	0.0	0.0	0.0
35°	148.1	87.1	43.6	29.0	17.4	8.7	0.0	0.0	0.0	0.0	0.0
37.5°	151.0	93.0	43.6	29.0	17.4	5.8	0.0	0.0	0.0	0.0	0.0
40°	156.9	87.1	46.5	29.0	17.4	5.8	0.0	0.0	0.0	0.0	0.0
42.5°	180.1	81.3	49.4	29.0	17.4	5.8	0.0	0.0	0.0	0.0	0.0
45°	267.2	84.2	49.4	32.0	17.4	8.7	0.0	0.0	0.0	0.0	0.0
47.5°	464.8	87.1	46.5	32.0	17.4	8.7	0.0	0.0	0.0	0.0	0.0
50°	595.5	101.7	46.5	34.9	20.3	5.8	0.0	0.0	0.0	0.0	0.0
52.5°	633.2	119.1	46.5	37.8	26.1	2.9	0.0	0.0	0.0	0.0	0.0
55°	615.8	139.4	49.4	40.7	32.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	569.3	151.0	52.3	43.6	34.9	0.0	0.0	0.0	0.0	0.0	0.0
59°	519.9	159.8	61.0	46.5	34.9	0.0	0.0	0.0	0.0	0.0	0.0
60°	479.3	168.5	63.9	49.4	34.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	386.3	180.1	69.7	58.1	29.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	337.0	188.8	72.6	63.9	26.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	307.9	194.6	78.4	66.8	23.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	284.7	191.7	84.2	63.9	20.3	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	258.5	183.0	101.7	58.1	17.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	232.4	165.6	110.4	52.3	11.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	168.5	139.4	101.7	46.5	5.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	72.6	75.5	72.6	34.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	14.5	17.4	14.5	8.7	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°	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1
2.5°	14.5	14.5	14.5	14.5	17.4	17.4	23.2	29.0	34.9	37.8	37.8
5°	11.6	11.6	11.6	11.6	11.6	14.5	17.4	23.2	32.0	34.9	34.9
7.5°	8.7	8.7	8.7	8.7	8.7	8.7	14.5	20.3	29.0	32.0	34.9
10°	8.7	5.8	5.8	2.9	2.9	5.8	8.7	17.4	26.1	29.0	32.0
12.5°	5.8	2.9	2.9	0.0	0.0	2.9	5.8	14.5	23.2	26.1	29.0
15°	2.9	0.0	0.0	0.0	0.0	0.0	2.9	11.6	20.3	23.2	29.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	17.4	23.2	26.1
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	14.5	20.3	23.2
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	11.6	17.4	20.3
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	11.6	14.5
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	8.7	11.6
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	8.7	11.6
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	5.8	8.7
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	5.8	8.7
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	5.8	5.8
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	5.8
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	5.8
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	5.8
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	5.8
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	5.8
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	5.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	5.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9
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°	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1
2.5°	40.7	40.7	37.8	34.9	34.9	34.9	37.8	40.7	40.7	40.7
5°	37.8	37.8	34.9	34.9	34.9	34.9	37.8	43.6	46.5	46.5
7.5°	37.8	37.8	34.9	34.9	34.9	34.9	37.8	43.6	46.5	49.4
10°	34.9	34.9	34.9	34.9	32.0	34.9	37.8	43.6	52.3	52.3
12.5°	34.9	34.9	34.9	34.9	32.0	34.9	40.7	46.5	55.2	58.1
15°	34.9	34.9	34.9	32.0	32.0	34.9	40.7	49.4	58.1	63.9
17.5°	32.0	34.9	34.9	32.0	32.0	34.9	40.7	49.4	63.9	72.6
20°	29.0	32.0	34.9	32.0	32.0	32.0	40.7	49.4	66.8	78.4
22.5°	26.1	29.0	32.0	32.0	29.0	32.0	40.7	52.3	72.6	87.1
25°	23.2	26.1	26.1	29.0	29.0	32.0	40.7	52.3	75.5	98.8
27.5°	17.4	20.3	23.2	26.1	26.1	32.0	40.7	55.2	81.3	122.0
30°	14.5	17.4	20.3	23.2	26.1	32.0	40.7	55.2	87.1	154.0
32.5°	14.5	17.4	20.3	23.2	26.1	29.0	40.7	58.1	95.9	191.7
35°	11.6	14.5	17.4	23.2	23.2	29.0	40.7	58.1	104.6	249.8
37.5°	11.6	14.5	17.4	23.2	23.2	29.0	40.7	58.1	127.8	278.9
40°	8.7	11.6	14.5	23.2	23.2	29.0	43.6	61.0	130.7	281.8
42.5°	8.7	11.6	14.5	20.3	23.2	29.0	43.6	61.0	122.0	290.5
45°	8.7	11.6	14.5	23.2	26.1	32.0	43.6	63.9	119.1	331.1
47.5°	8.7	11.6	14.5	23.2	29.0	32.0	43.6	63.9	122.0	473.5
50°	8.7	11.6	14.5	23.2	32.0	32.0	43.6	63.9	133.6	761.0
52.5°	5.8	8.7	11.6	20.3	26.1	34.9	46.5	61.0	142.3	1016.7
55°	5.8	5.8	8.7	17.4	23.2	37.8	49.4	61.0	165.6	1080.6
57.5°	5.8	5.8	8.7	14.5	20.3	40.7	52.3	61.0	191.7	1048.6
59°	5.8	5.8	5.8	14.5	17.4	40.7	52.3	63.9	194.6	993.4
60°	5.8	5.8	5.8	11.6	17.4	40.7	55.2	66.8	197.5	929.5
62.5°	2.9	2.9	2.9	11.6	14.5	40.7	61.0	81.3	203.3	717.5
65°	5.8	5.8	2.9	8.7	14.5	34.9	69.7	87.1	206.2	557.7
67.5°	5.8	5.8	5.8	11.6	14.5	34.9	72.6	90.0	206.2	441.5
70°	5.8	5.8	5.8	11.6	17.4	34.9	72.6	93.0	203.3	360.2
72.5°	5.8	5.8	5.8	11.6	17.4	32.0	66.8	95.9	194.6	305.0
75°	5.8	5.8	5.8	8.7	14.5	29.0	63.9	104.6	177.2	258.5
77.5°	5.8	5.8	5.8	5.8	11.6	23.2	58.1	116.2	156.9	209.1
80°	8.7	5.8	5.8	5.8	8.7	20.3	55.2	113.3	130.7	136.5
82.5°	8.7	5.8	5.8	2.9	5.8	14.5	43.6	87.1	66.8	61.0
85°	5.8	5.8	5.8	2.9	2.9	8.7	20.3	26.1	20.3	14.5
87.5°	5.8	5.8	5.8	2.9	2.9	2.9	2.9	2.9	2.9	2.9
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: SP1-2407-184-6

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-750-U-5WQ

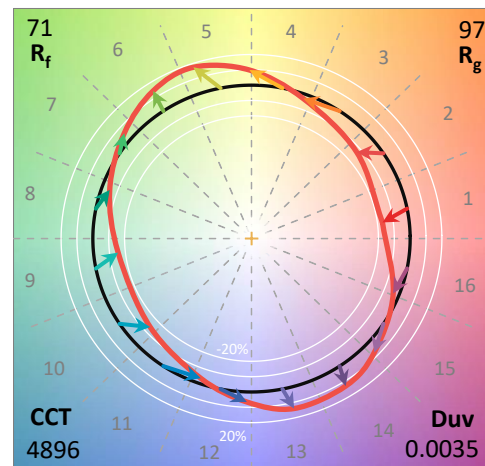
Data in this report applies to families of products including GSS-SB1A-750-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-6
 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-750-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K):	4896	CRI (Ra):	70.2		
CIE u':	0.2101	R1:	68.1	R9:	-35.1
CIE v':	0.4901	R2:	73.9	R10:	39.3
Duv:	0.0035	R3:	79.4	R11:	71.1
CIE x:	0.3489	R4:	72.1	R12:	43.8
CIE y:	0.3618	R5:	69.2	R13:	68.1
CIE z:	0.2893	R6:	65.7	R14:	88.4
Peak Wavelength (nm):	443	R7:	78.1	R15:	59.7
Dominant Wavelength (nm):	570	R8:	55.3		
Purity:	13.25435				
Rf:	70.7				
Rg:	96.8				



Test Conditions

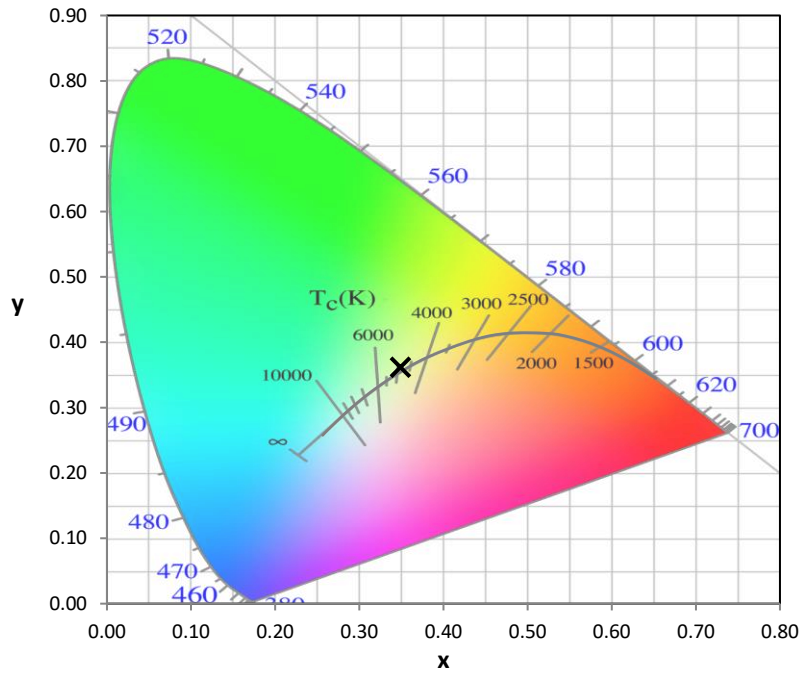
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-6

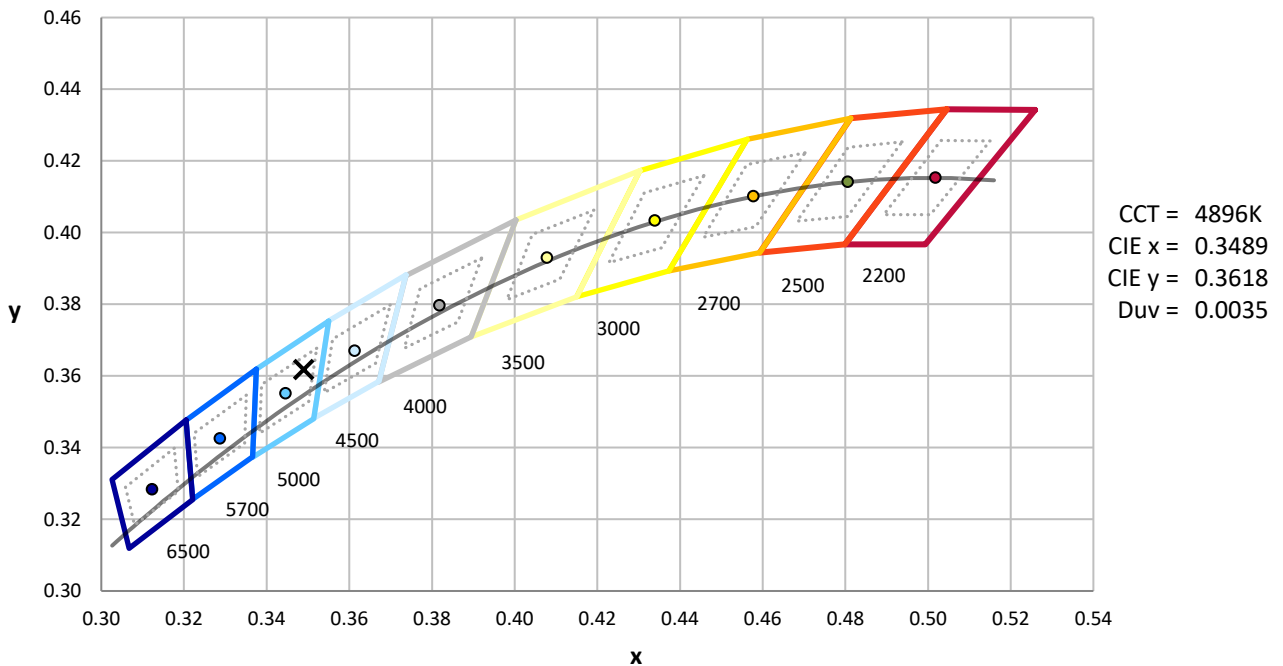
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



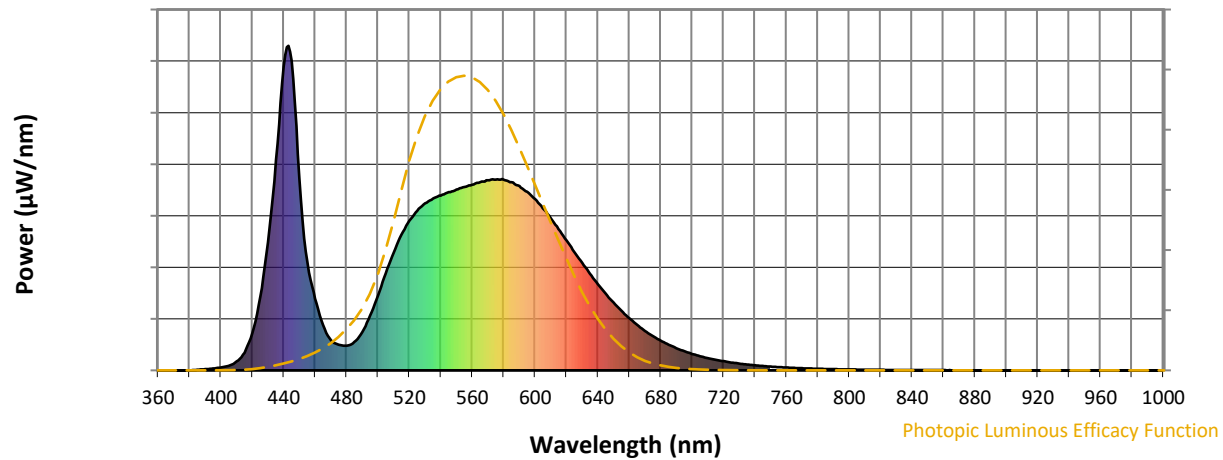
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-6

Photopic Flux vs. Wavelength

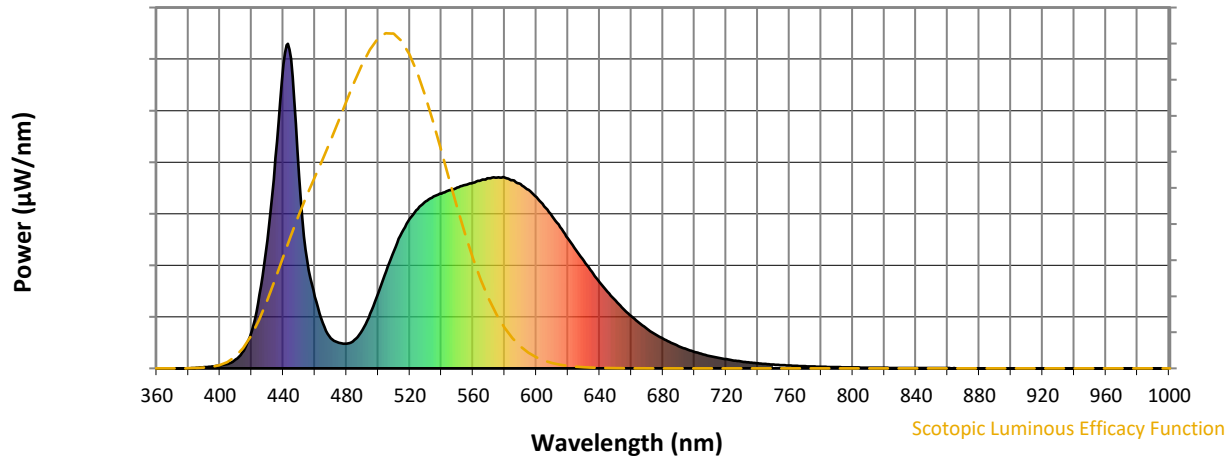


Photopic Lumens: NR

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	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-6

Scotopic Flux vs. Wavelength



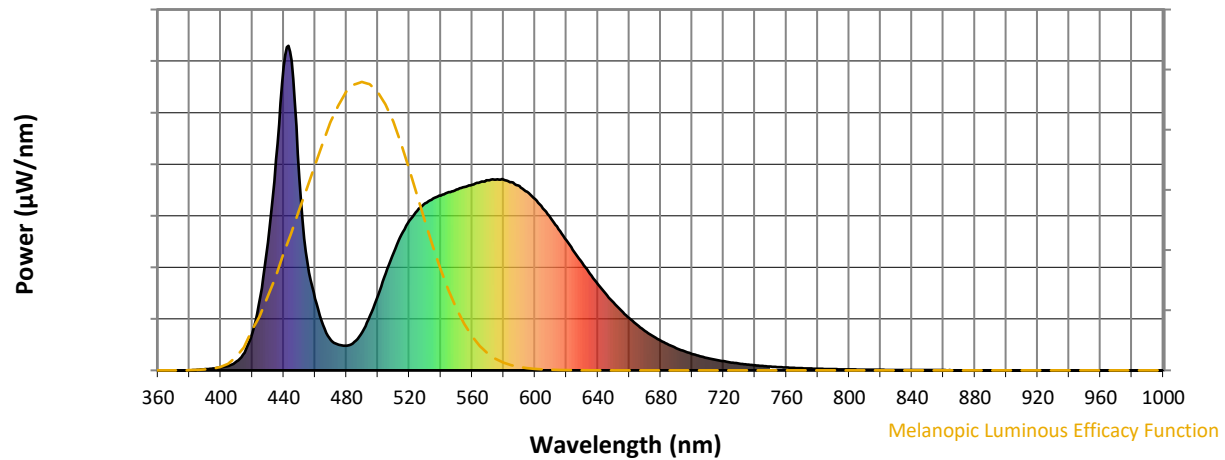
Scotopic Lumens: NR

S/P: 1.7

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	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.37

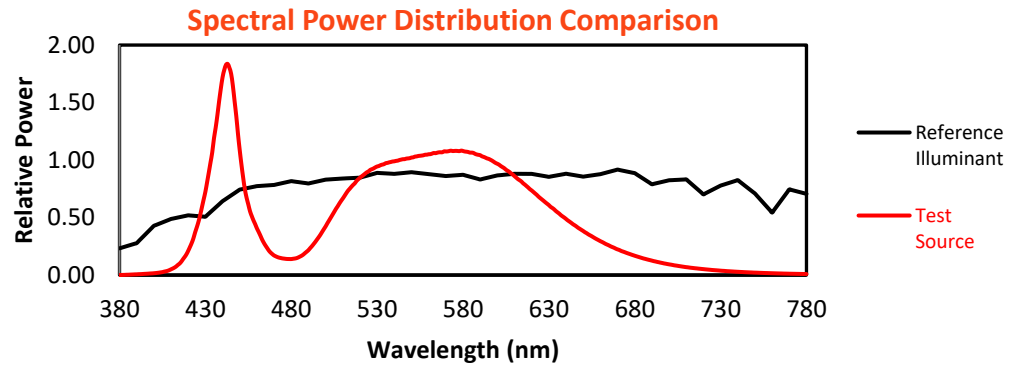
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-6

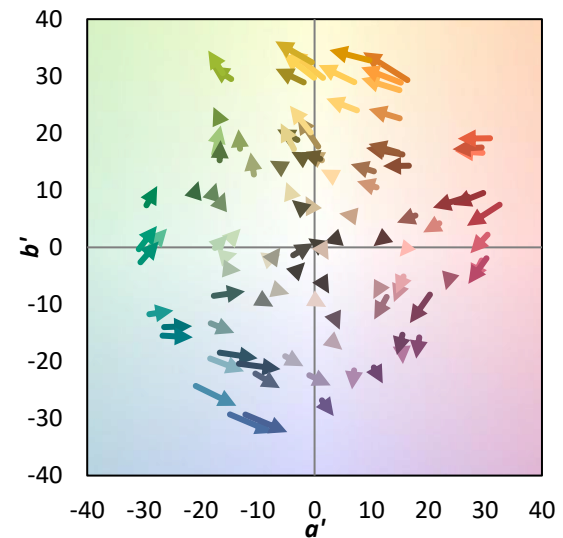
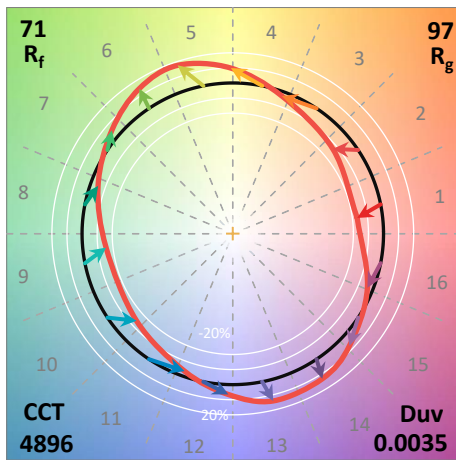
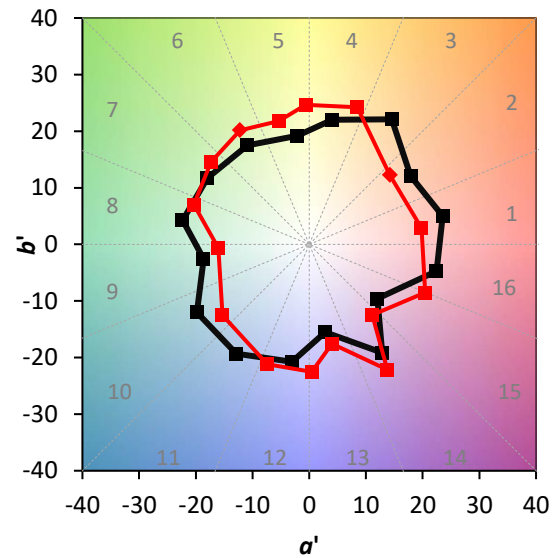
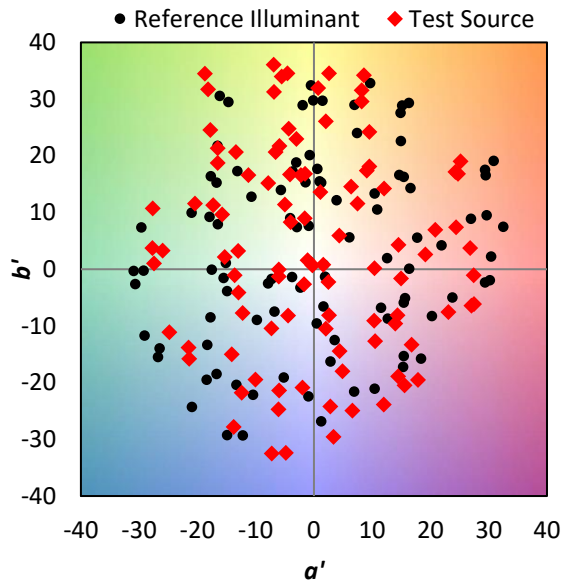
TM-30-18

Summary

$R_f = 70.7$
 $R_g = 96.8$
 $CIE R_a = 70.2$
 $R_g = -35.1$

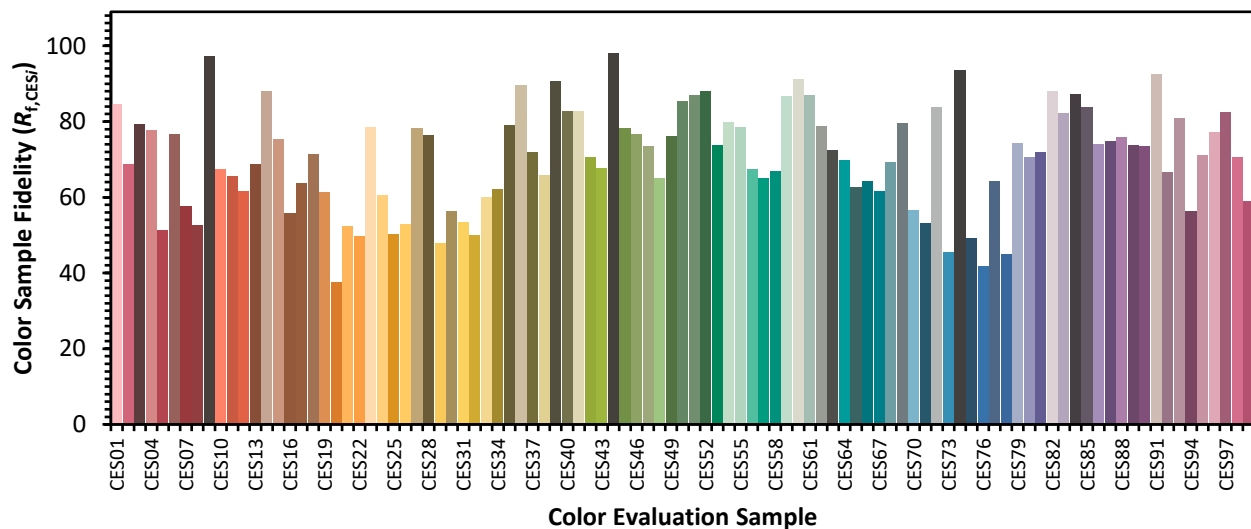


Color Vector Graphics

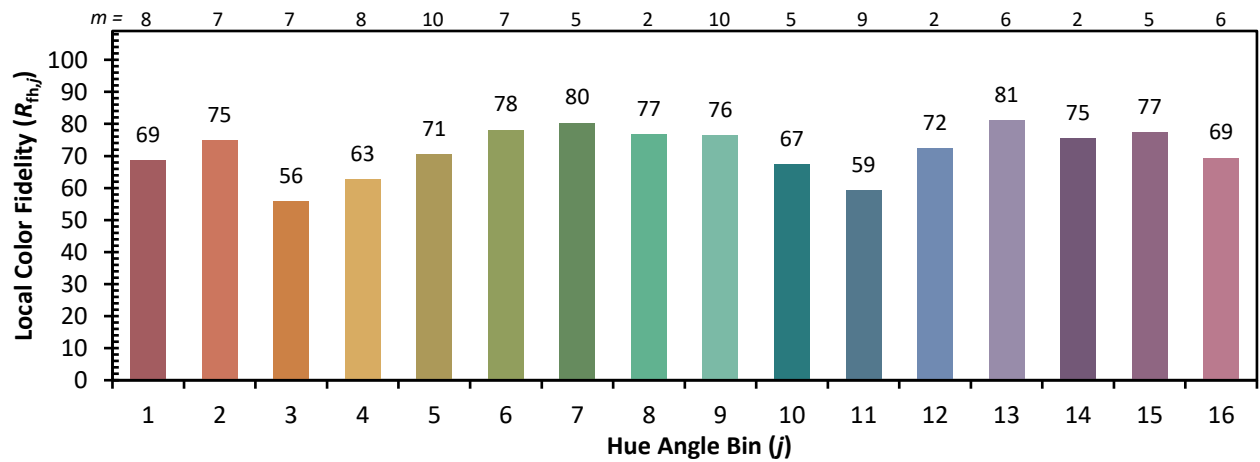
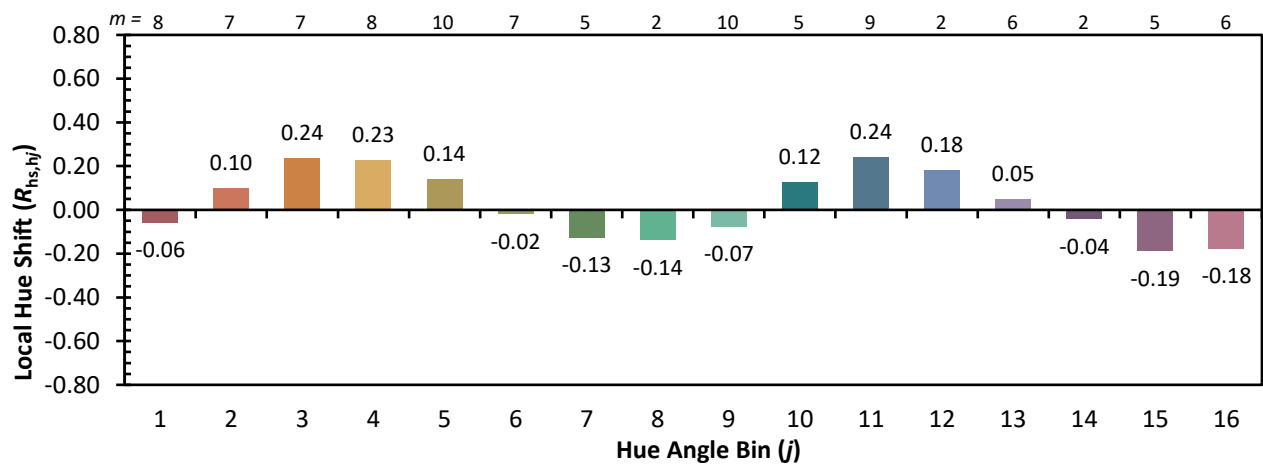
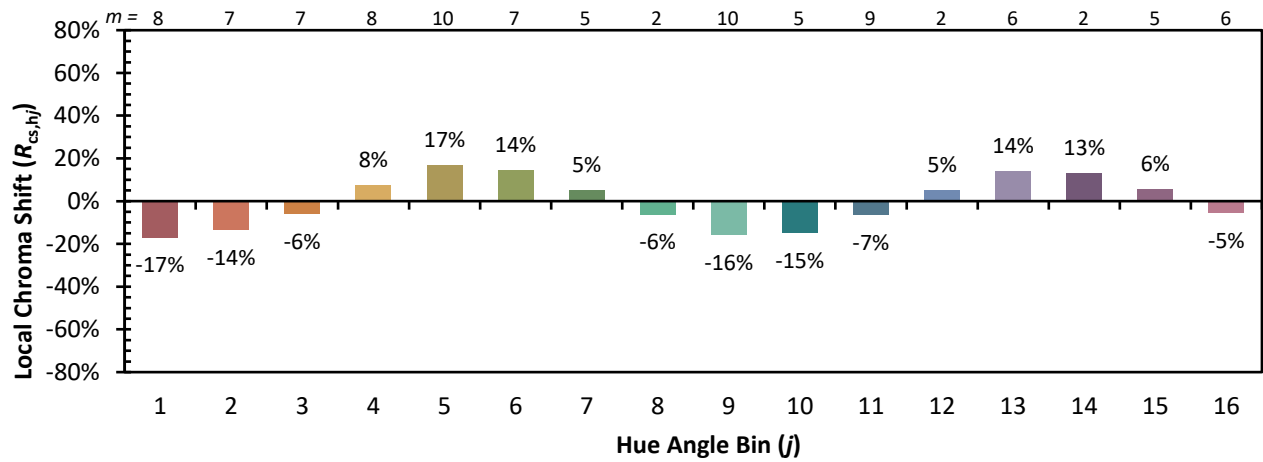


Individual Sample Fidelity Index ($R_{f,i}$)

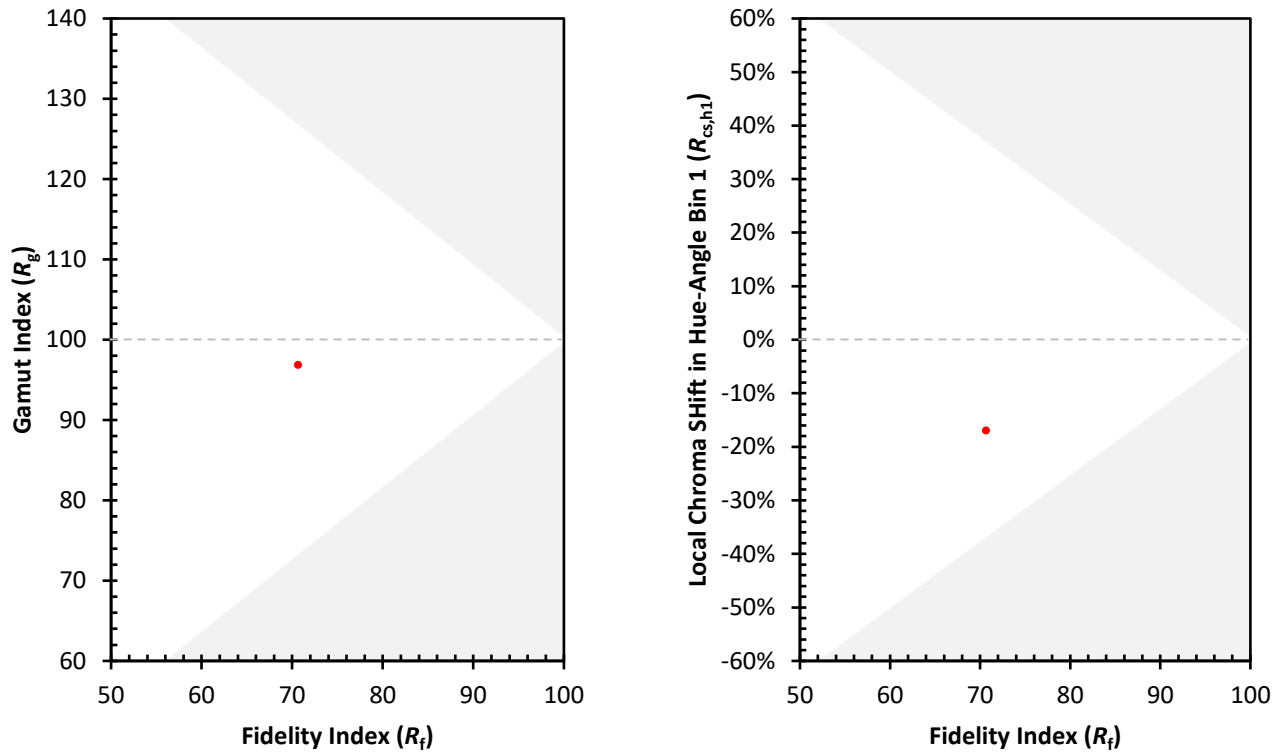
CES01 = 85	CES26 = 53	CES51 = 87	CES76 = 42
CES02 = 59	CES27 = 78	CES52 = 88	CES77 = 64
CES03 = 30	CES28 = 76	CES53 = 74	CES78 = 45
CES04 = 69	CES29 = 48	CES54 = 80	CES79 = 74
CES05 = 46	CES30 = 56	CES55 = 79	CES80 = 71
CES06 = 50	CES31 = 54	CES56 = 68	CES81 = 72
CES07 = 39	CES32 = 50	CES57 = 65	CES82 = 88
CES08 = 38	CES33 = 60	CES58 = 67	CES83 = 82
CES09 = 29	CES34 = 62	CES59 = 87	CES84 = 87
CES10 = 72	CES35 = 79	CES60 = 91	CES85 = 84
CES11 = 56	CES36 = 90	CES61 = 87	CES86 = 74
CES12 = 61	CES37 = 72	CES62 = 79	CES87 = 75
CES13 = 41	CES38 = 66	CES63 = 72	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 70	CES89 = 74
CES15 = 70	CES40 = 83	CES65 = 63	CES90 = 73
CES16 = 46	CES41 = 83	CES66 = 64	CES91 = 92
CES17 = 49	CES42 = 70	CES67 = 62	CES92 = 67
CES18 = 55	CES43 = 68	CES68 = 69	CES93 = 81
CES19 = 71	CES44 = 98	CES69 = 80	CES94 = 56
CES20 = 64	CES45 = 78	CES70 = 56	CES95 = 71
CES21 = 85	CES46 = 77	CES71 = 53	CES96 = 77
CES22 = 77	CES47 = 73	CES72 = 84	CES97 = 82
CES23 = 91	CES48 = 65	CES73 = 46	CES98 = 71
CES24 = 90	CES49 = 76	CES74 = 94	CES99 = 59
CES25 = 71	CES50 = 85	CES75 = 49	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)