

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: P1067995

Luminaire Tested: **NAV-SA2C-750-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067995
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA2C-750-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 2xLight Square PACKAGE
70CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9654.1 lumens
Efficiency: N/A
Efficacy: 100.4 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

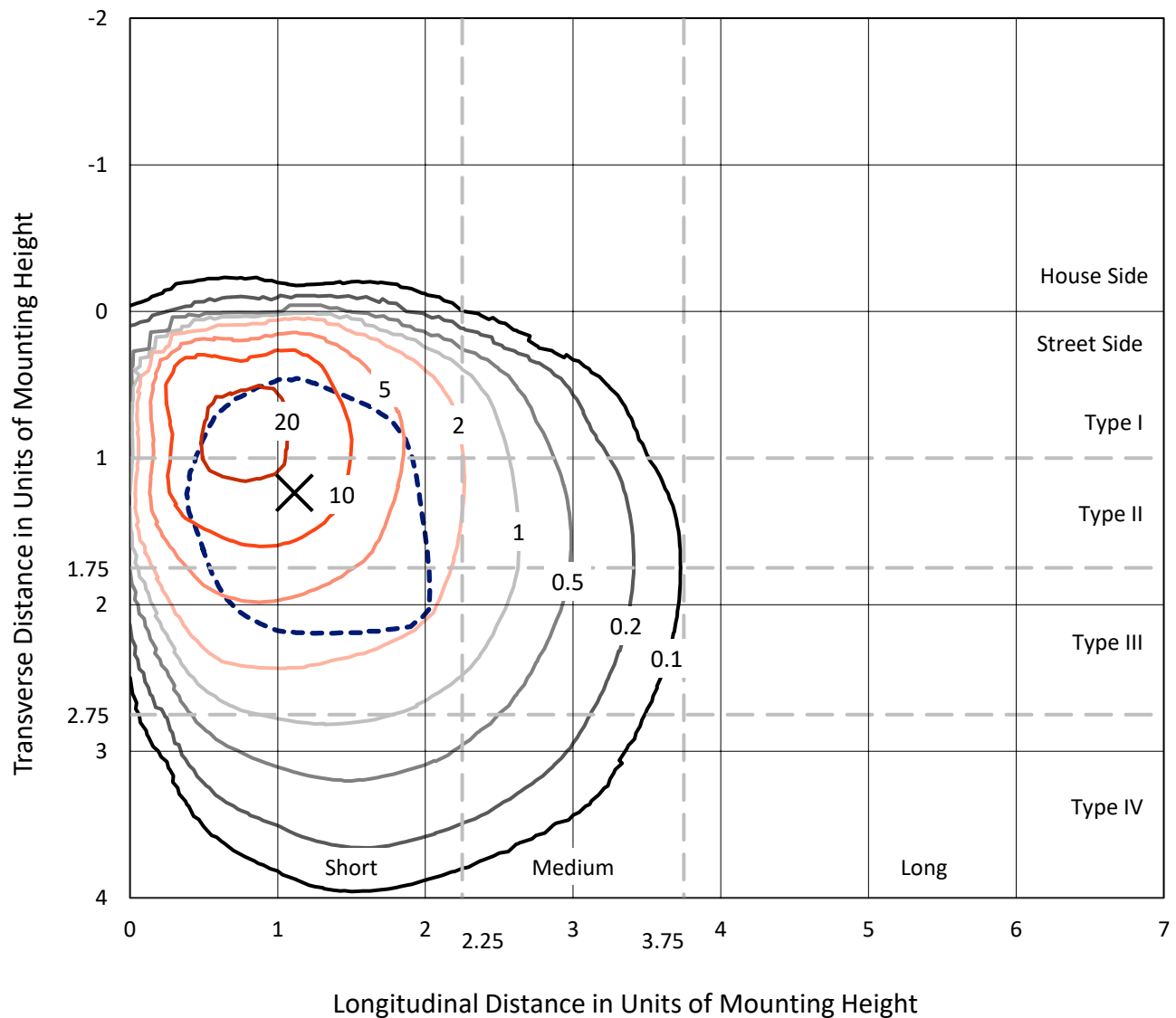


REPORT NUMBER: P1067995

CATALOG NUMBER: NAV-SA2C-750-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

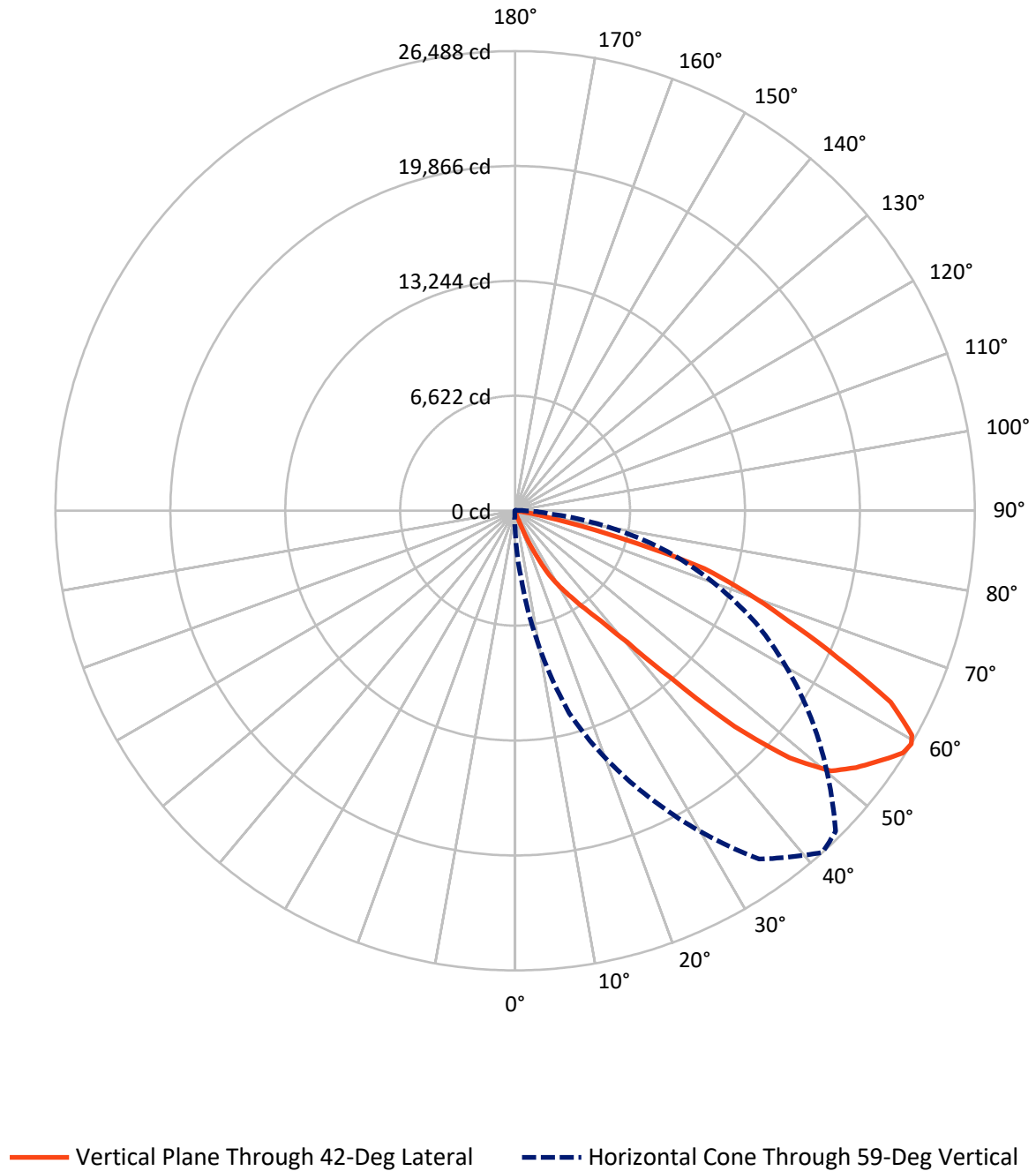


Based on 15 foot mounting height. Maximum calculated value = 28.7 fc
 Type III - Short - N/A

REPORT NUMBER: P1067995

CATALOG NUMBER: NAV-SA2C-750-U-LBC

Luminous Intensity Polar Plot



REPORT NUMBER: P1067995

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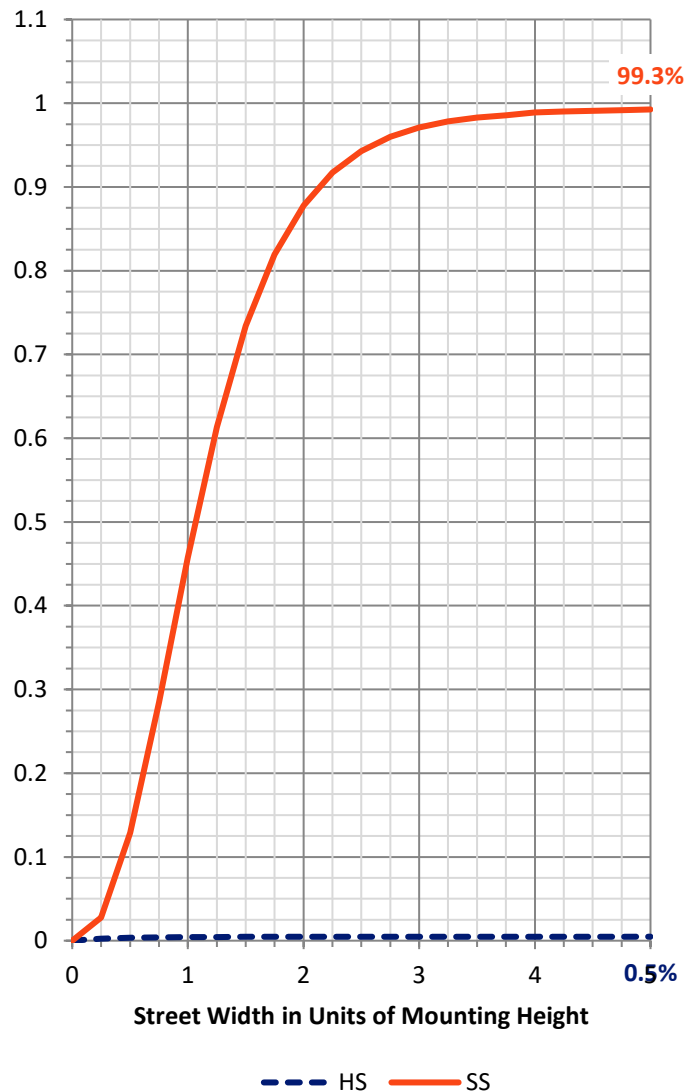
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	46.5	0.0	46.5
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	9607.6	0.0	9607.6
	% Fixture	99.5	0.0	99.5
Total	Lumens	9654.1	0.0	9654.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.8	0.0
10°-20°	14.1	0.1
20°-30°	180.1	1.9
30°-40°	607.1	6.3
40°-50°	1833.8	19.0
50°-60°	3237.0	33.5
60°-70°	2850.3	29.5
70°-80°	907.2	9.4
80°-90°	21.7	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°	9654.1	100.0
0°-180°	9654.1	100.0



REPORT NUMBER: P1067995

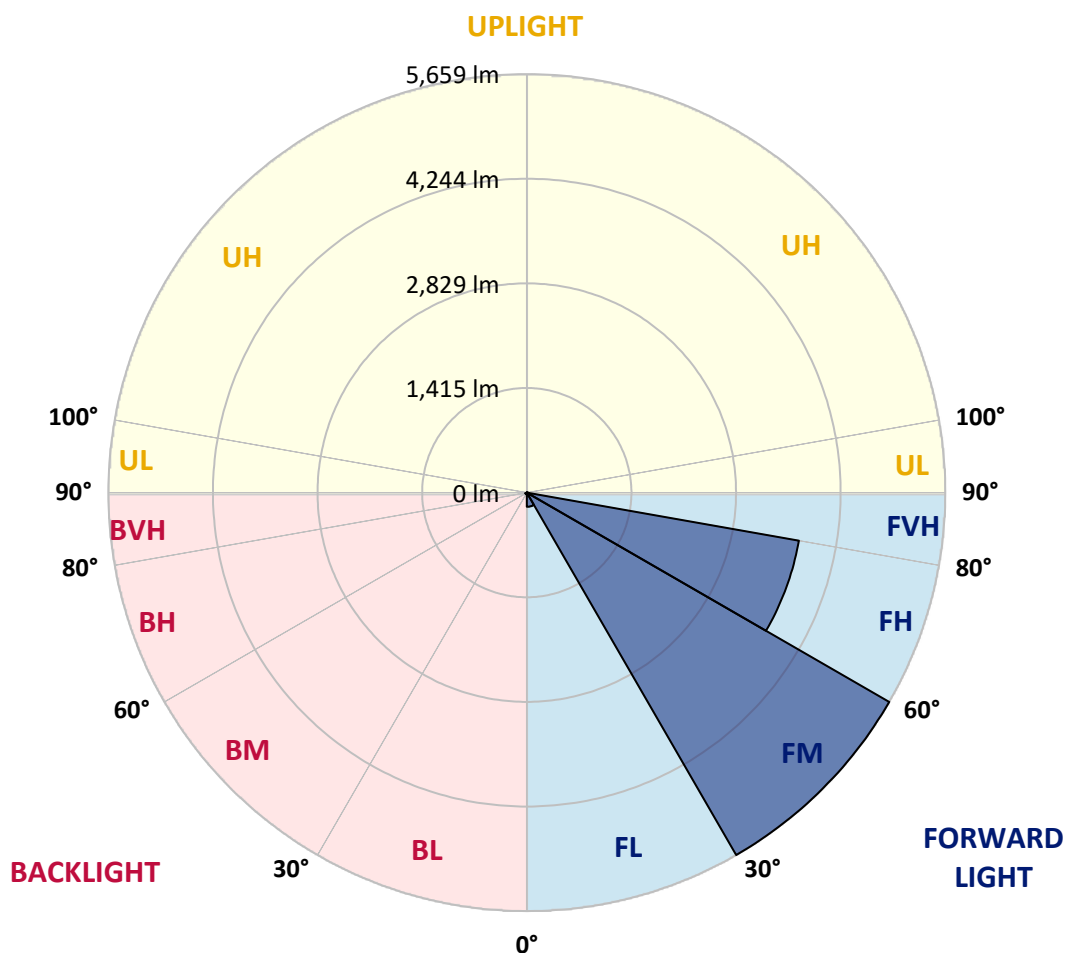
CATALOG NUMBER: NAV-SA2C-750-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	191.8	2.0			
FM	(30°-60°)	5658.9	58.6			
FH	(60°-80°)	3736.2	38.7			G2/5000
FVH	(80°-90°)	20.7	0.2			G1/100
BL	(0°-30°)	5.2	0.1	B0/110		
BM	(30°-60°)	19.0	0.2	B0/220		
BH	(60°-80°)	21.3	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





REPORT NUMBER: P1067995

CATALOG NUMBER: NAV-SA2C-750-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
2.5°	42.4	42.4	39.3	36.3	33.3	30.3	30.3	30.3	27.2	27.2	24.2
5°	48.4	48.4	45.4	42.4	42.4	39.3	39.3	36.3	33.3	33.3	30.3
7.5°	51.5	51.5	51.5	51.5	48.4	48.4	48.4	45.4	42.4	39.3	36.3
10°	54.5	57.5	60.5	60.5	60.5	60.5	60.5	57.5	51.5	48.4	42.4
12.5°	60.5	63.6	69.6	75.7	75.7	78.7	75.7	72.6	66.6	57.5	48.4
15°	66.6	72.6	81.7	93.8	105.9	109.0	109.0	99.9	87.8	69.6	57.5
17.5°	75.7	84.8	109.0	148.3	190.7	224.0	224.0	199.8	139.2	90.8	66.6
20°	81.7	99.9	175.6	357.2	544.8	684.1	656.8	581.2	311.8	142.3	72.6
22.5°	90.8	127.1	372.3	938.3	1452.9	1707.2	1646.6	1250.1	699.2	254.3	87.8
25°	102.9	184.6	738.6	1758.6	2700.0	2975.4	2936.1	2333.7	1274.3	426.8	112.0
27.5°	127.1	272.4	1183.5	2666.7	3983.4	4219.5	4204.3	3417.4	2037.1	687.1	145.3
30°	160.4	396.5	1755.6	3623.2	4833.9	5073.1	4997.4	4210.4	2748.4	1050.3	187.7
32.5°	199.8	553.9	2273.2	4328.4	5617.9	5932.7	5841.9	4900.5	3320.5	1359.1	278.5
35°	260.3	708.3	2784.7	4952.0	6522.9	6922.5	6771.1	5611.8	3813.9	1707.2	336.0
37.5°	290.6	799.1	3253.9	5630.0	7540.0	8084.8	7969.8	6510.8	4316.3	2152.1	411.7
40°	293.6	908.1	3741.2	6513.9	8977.7	9949.4	9743.6	8054.5	5251.6	2724.2	529.7
42.5°	302.7	1071.5	4373.9	8021.3	11801.8	13197.2	12964.2	10893.8	7373.5	3871.4	750.7
45°	345.1	1380.3	5663.3	10839.3	15679.3	17725.5	17456.1	14849.9	10336.8	6029.6	1280.4
47.5°	493.4	2076.4	7924.4	13881.3	19644.5	21276.0	21209.4	17967.6	13021.7	8242.2	2170.3
50°	793.0	3187.3	10497.2	16439.0	22168.9	23570.4	23403.9	19269.2	14553.3	9752.6	2781.7
52.5°	1059.4	4249.7	12113.6	17380.4	22922.6	24593.5	24390.7	19744.4	14955.9	10197.6	2951.2
55°	1126.0	4634.2	12594.9	17671.0	23422.1	25459.2	25165.5	20062.2	15007.3	9879.8	2669.7
57.5°	1092.7	4270.9	12283.1	17955.5	24118.2	26349.1	25958.6	20682.7	15179.8	9341.0	2221.7
59°	1035.2	3823.0	12089.4	18182.5	24502.7	26488.3	26122.0	20818.9	15294.9	9095.8	1949.3
60°	968.6	3520.3	11938.0	18330.8	24478.4	26270.4	25892.0	20755.4	15340.3	8883.9	1819.2
62.5°	747.6	2809.0	11720.1	18224.9	22949.9	24281.7	24066.8	19199.5	14674.4	8205.9	1434.7
65°	581.2	2149.1	10921.0	16254.4	19529.5	20425.4	20358.8	16257.4	12349.7	7073.8	1035.2
67.5°	460.1	1567.9	9235.0	13163.9	15712.6	16986.9	16938.5	13197.2	9374.3	5406.0	744.6
70°	375.3	1116.9	6332.2	9925.2	12567.6	14171.9	14102.3	10621.3	6946.7	3429.5	541.8
72.5°	317.8	714.3	3841.1	7482.5	10488.2	11405.3	11202.5	8569.1	5051.9	1867.6	429.8
75°	269.4	438.9	1903.9	4664.4	6247.5	6241.4	6038.6	4537.3	2712.1	914.1	342.0
77.5°	217.9	308.7	747.6	1280.4	1970.5	2439.7	2400.3	1607.3	811.2	266.4	211.9
80°	142.3	145.3	199.8	351.1	541.8	599.3	681.0	490.4	236.1	127.1	87.8
82.5°	63.6	69.6	90.8	115.0	115.0	105.9	93.8	69.6	51.5	42.4	21.2
85°	15.1	21.2	15.1	18.2	15.1	12.1	12.1	6.1	0.0	0.0	0.0
87.5°	3.0	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

REPORT NUMBER: P1067995

CATALOG NUMBER: NAV-SA2C-750-U-LBC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
2.5°	24.2	24.2	24.2	21.2	21.2	21.2	18.2	18.2	18.2	15.1	15.1
5°	30.3	27.2	24.2	24.2	21.2	21.2	18.2	15.1	15.1	15.1	12.1
7.5°	33.3	30.3	27.2	24.2	21.2	18.2	18.2	15.1	12.1	12.1	12.1
10°	39.3	36.3	30.3	24.2	21.2	18.2	15.1	15.1	12.1	9.1	9.1
12.5°	45.4	39.3	33.3	27.2	21.2	18.2	15.1	15.1	12.1	9.1	6.1
15°	51.5	45.4	36.3	27.2	21.2	18.2	15.1	15.1	9.1	6.1	3.0
17.5°	57.5	48.4	36.3	30.3	21.2	18.2	15.1	12.1	6.1	3.0	0.0
20°	60.5	51.5	39.3	30.3	21.2	18.2	15.1	9.1	3.0	0.0	0.0
22.5°	66.6	57.5	42.4	30.3	21.2	15.1	9.1	3.0	0.0	0.0	0.0
25°	78.7	60.5	42.4	30.3	21.2	15.1	6.1	0.0	0.0	0.0	0.0
27.5°	87.8	66.6	42.4	30.3	21.2	12.1	3.0	0.0	0.0	0.0	0.0
30°	102.9	72.6	45.4	30.3	21.2	9.1	3.0	0.0	0.0	0.0	0.0
32.5°	127.1	78.7	45.4	30.3	18.2	9.1	0.0	0.0	0.0	0.0	0.0
35°	154.4	90.8	45.4	30.3	18.2	9.1	0.0	0.0	0.0	0.0	0.0
37.5°	157.4	96.9	45.4	30.3	18.2	6.1	0.0	0.0	0.0	0.0	0.0
40°	163.5	90.8	48.4	30.3	18.2	6.1	0.0	0.0	0.0	0.0	0.0
42.5°	187.7	84.8	51.5	30.3	18.2	6.1	0.0	0.0	0.0	0.0	0.0
45°	278.5	87.8	51.5	33.3	18.2	9.1	0.0	0.0	0.0	0.0	0.0
47.5°	484.3	90.8	48.4	33.3	18.2	9.1	0.0	0.0	0.0	0.0	0.0
50°	620.5	105.9	48.4	36.3	21.2	6.1	0.0	0.0	0.0	0.0	0.0
52.5°	659.9	124.1	48.4	39.3	27.2	3.0	0.0	0.0	0.0	0.0	0.0
55°	641.7	145.3	51.5	42.4	33.3	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	593.3	157.4	54.5	45.4	36.3	0.0	0.0	0.0	0.0	0.0	0.0
59°	541.8	166.5	63.6	48.4	36.3	0.0	0.0	0.0	0.0	0.0	0.0
60°	499.4	175.6	66.6	51.5	36.3	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	402.6	187.7	72.6	60.5	30.3	0.0	0.0	0.0	0.0	0.0	0.0
65°	351.1	196.7	75.7	66.6	27.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	320.9	202.8	81.7	69.6	24.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	296.6	199.8	87.8	66.6	21.2	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	269.4	190.7	105.9	60.5	18.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	242.2	172.5	115.0	54.5	12.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	175.6	145.3	105.9	48.4	6.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	75.7	78.7	75.7	36.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	15.1	18.2	15.1	9.1	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



REPORT NUMBER: P1067995

CATALOG NUMBER: NAV-SA2C-750-U-LBC

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
2.5°	15.1	15.1	15.1	15.1	18.2	18.2	24.2	30.3	36.3	39.3	39.3
5°	12.1	12.1	12.1	12.1	12.1	15.1	18.2	24.2	33.3	36.3	36.3
7.5°	9.1	9.1	9.1	9.1	9.1	9.1	15.1	21.2	30.3	33.3	36.3
10°	9.1	6.1	6.1	3.0	3.0	6.1	9.1	18.2	27.2	30.3	33.3
12.5°	6.1	3.0	3.0	0.0	0.0	3.0	6.1	15.1	24.2	27.2	30.3
15°	3.0	0.0	0.0	0.0	0.0	0.0	3.0	12.1	21.2	24.2	30.3
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	18.2	24.2	27.2
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	15.1	21.2	24.2
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	12.1	18.2	21.2
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	12.1	15.1
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	9.1	12.1
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	9.1	12.1
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.1	9.1
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.1	9.1
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.1	6.1
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.1
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.1
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.1
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.1
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.1
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1067995

CATALOG NUMBER: NAV-SA2C-750-U-LBC

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	318°	325°	335°	345°	355°	360°
0°	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
2.5°	42.4	42.4	39.3	36.3	36.3	36.3	39.3	42.4	42.4	42.4
5°	39.3	39.3	36.3	36.3	36.3	36.3	39.3	45.4	48.4	48.4
7.5°	39.3	39.3	36.3	36.3	36.3	36.3	39.3	45.4	48.4	51.5
10°	36.3	36.3	36.3	36.3	33.3	36.3	39.3	45.4	54.5	54.5
12.5°	36.3	36.3	36.3	36.3	33.3	36.3	42.4	48.4	57.5	60.5
15°	36.3	36.3	36.3	33.3	33.3	36.3	42.4	51.5	60.5	66.6
17.5°	33.3	36.3	36.3	33.3	33.3	36.3	42.4	51.5	66.6	75.7
20°	30.3	33.3	36.3	33.3	33.3	33.3	42.4	51.5	69.6	81.7
22.5°	27.2	30.3	33.3	33.3	30.3	33.3	42.4	54.5	75.7	90.8
25°	24.2	27.2	27.2	30.3	30.3	33.3	42.4	54.5	78.7	102.9
27.5°	18.2	21.2	24.2	27.2	27.2	33.3	42.4	57.5	84.8	127.1
30°	15.1	18.2	21.2	24.2	27.2	33.3	42.4	57.5	90.8	160.4
32.5°	15.1	18.2	21.2	24.2	27.2	30.3	42.4	60.5	99.9	199.8
35°	12.1	15.1	18.2	24.2	24.2	30.3	42.4	60.5	109.0	260.3
37.5°	12.1	15.1	18.2	24.2	24.2	30.3	42.4	60.5	133.2	290.6
40°	9.1	12.1	15.1	24.2	24.2	30.3	45.4	63.6	136.2	293.6
42.5°	9.1	12.1	15.1	21.2	24.2	30.3	45.4	63.6	127.1	302.7
45°	9.1	12.1	15.1	24.2	27.2	33.3	45.4	66.6	124.1	345.1
47.5°	9.1	12.1	15.1	24.2	30.3	33.3	45.4	66.6	127.1	493.4
50°	9.1	12.1	15.1	24.2	33.3	33.3	45.4	66.6	139.2	793.0
52.5°	6.1	9.1	12.1	21.2	27.2	36.3	48.4	63.6	148.3	1059.4
55°	6.1	6.1	9.1	18.2	24.2	39.3	51.5	63.6	172.5	1126.0
57.5°	6.1	6.1	9.1	15.1	21.2	42.4	54.5	63.6	199.8	1092.7
59°	6.1	6.1	6.1	15.1	18.2	42.4	54.5	66.6	202.8	1035.2
60°	6.1	6.1	6.1	12.1	18.2	42.4	57.5	69.6	205.8	968.6
62.5°	3.0	3.0	3.0	12.1	15.1	42.4	63.6	84.8	211.9	747.6
65°	6.1	6.1	3.0	9.1	15.1	36.3	72.6	90.8	214.9	581.2
67.5°	6.1	6.1	6.1	12.1	15.1	36.3	75.7	93.8	214.9	460.1
70°	6.1	6.1	6.1	12.1	18.2	36.3	75.7	96.9	211.9	375.3
72.5°	6.1	6.1	6.1	12.1	18.2	33.3	69.6	99.9	202.8	317.8
75°	6.1	6.1	6.1	9.1	15.1	30.3	66.6	109.0	184.6	269.4
77.5°	6.1	6.1	6.1	6.1	12.1	24.2	60.5	121.1	163.5	217.9
80°	9.1	6.1	6.1	6.1	9.1	21.2	57.5	118.0	136.2	142.3
82.5°	9.1	6.1	6.1	3.0	6.1	15.1	45.4	90.8	69.6	63.6
85°	6.1	6.1	6.1	3.0	3.0	9.1	21.2	27.2	21.2	15.1
87.5°	6.1	6.1	6.1	3.0	3.0	3.0	3.0	3.0	3.0	3.0
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

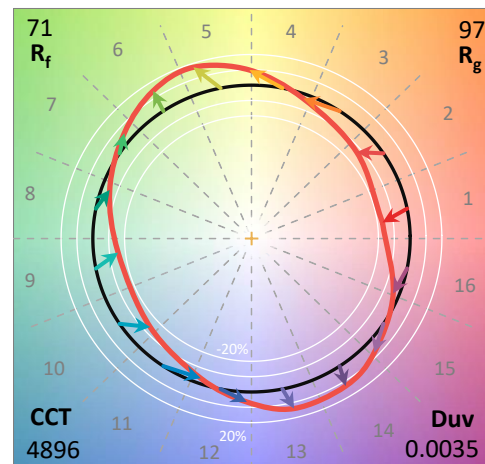
Data in this report applies to families of products including GSS-SB1A-750-U-5WQ

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

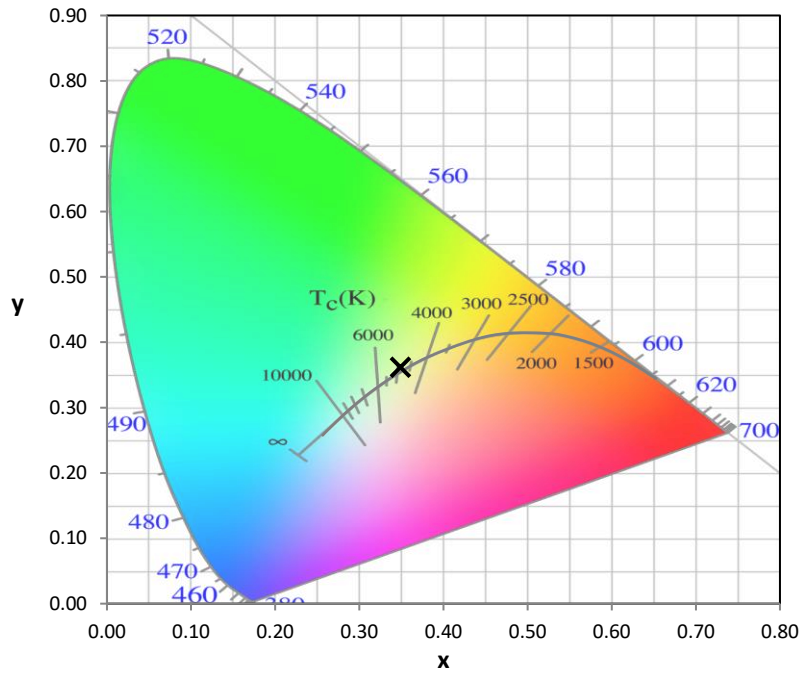
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-6

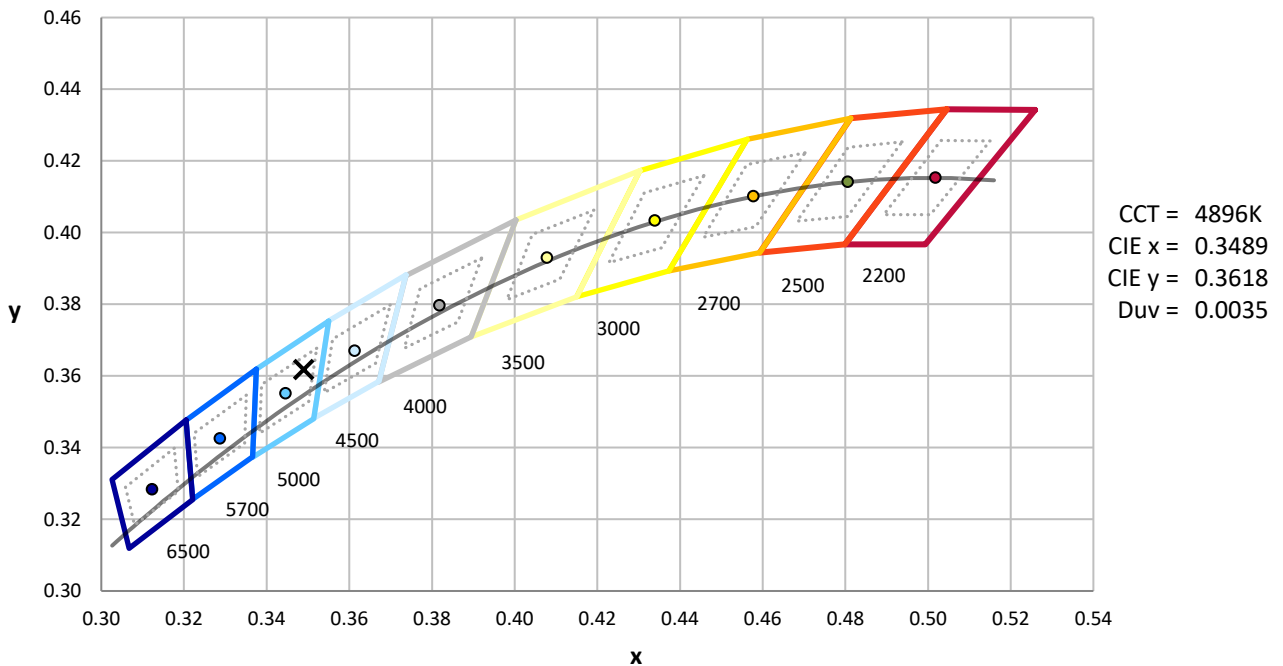
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-6

CIE 1931 Chromaticity Diagram



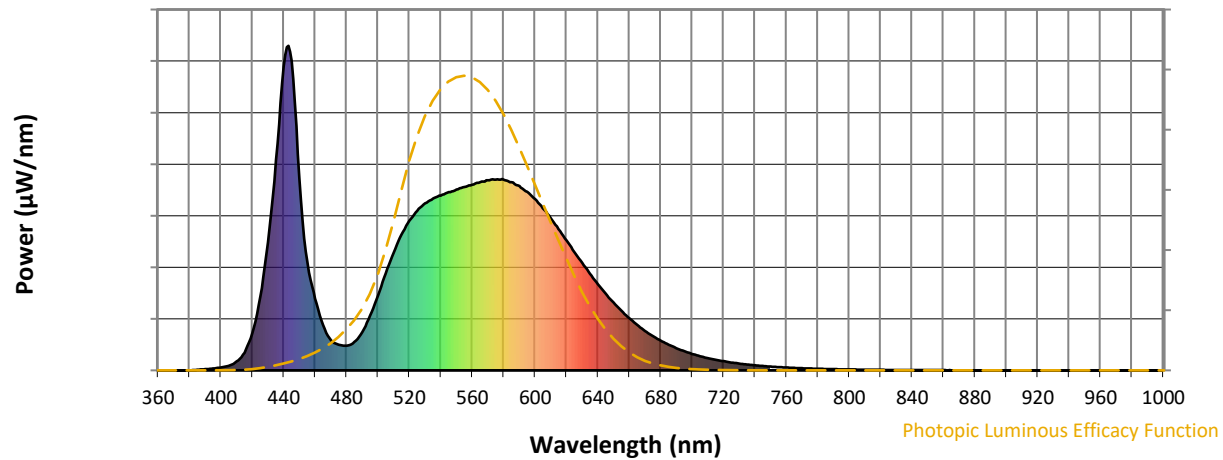
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-6

Photopic Flux vs. Wavelength

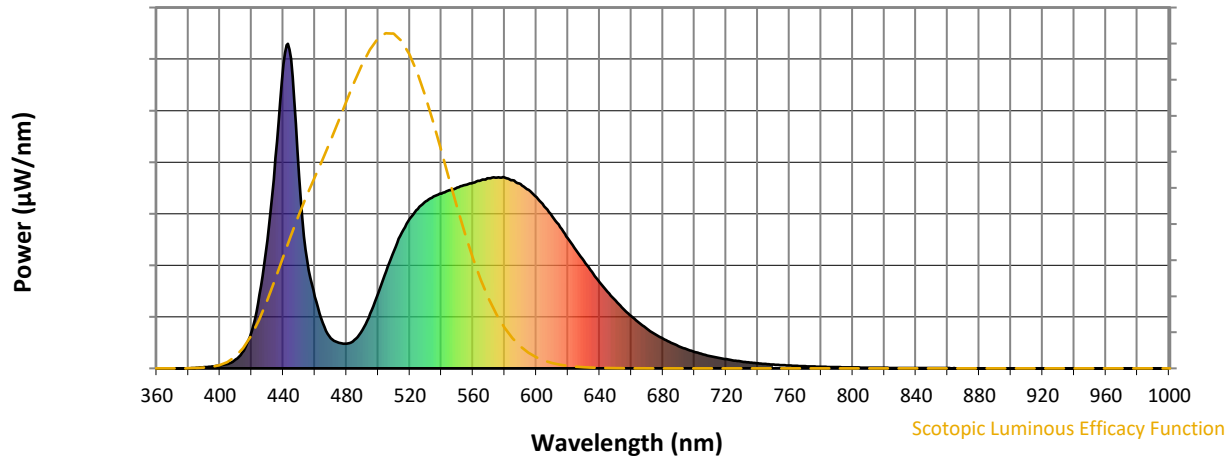


Photopic Lumens: NR

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



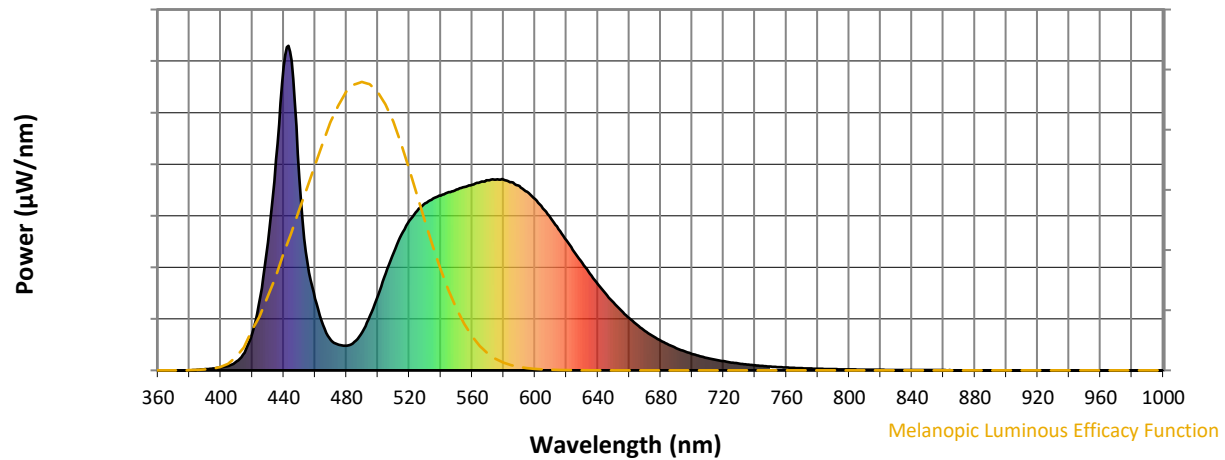
Scotopic Lumens: NR

S/P: 1.7

λ (nm)	Power W ^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

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.37

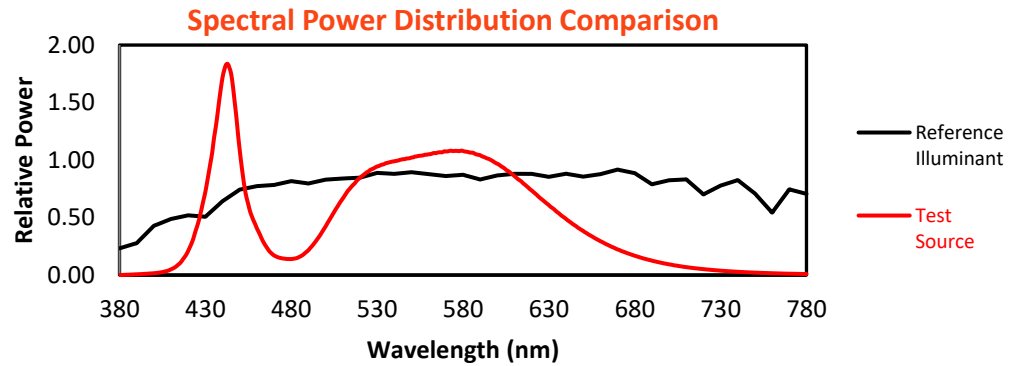
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	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

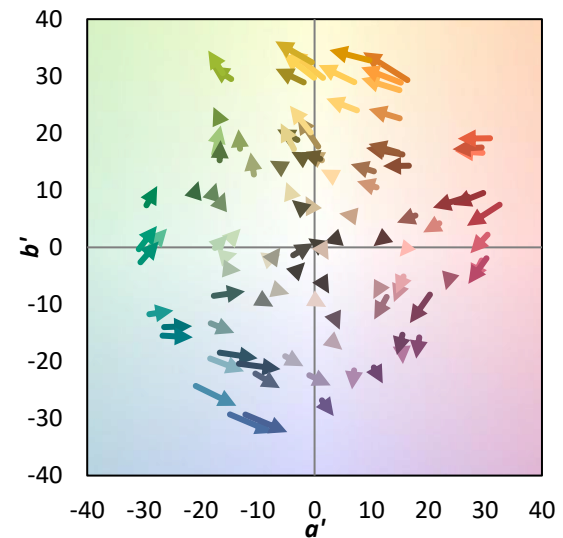
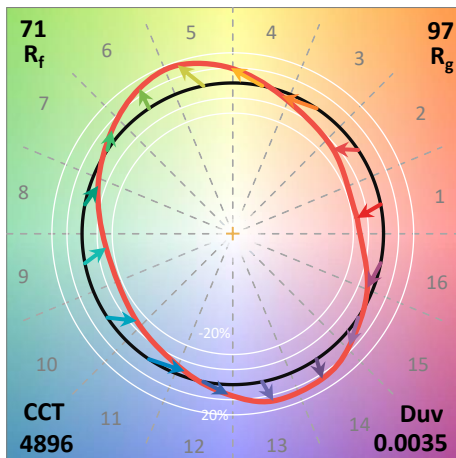
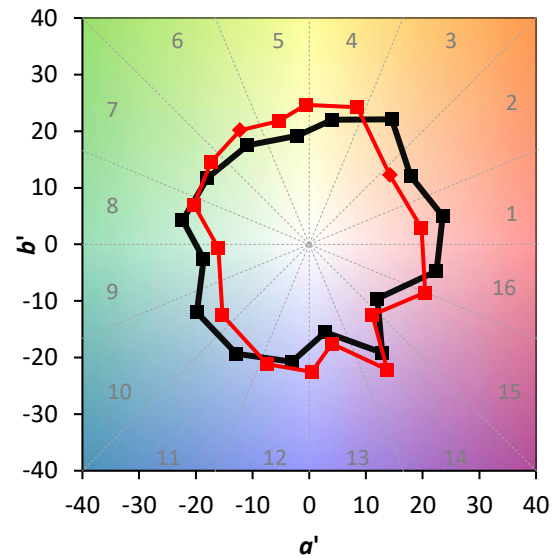
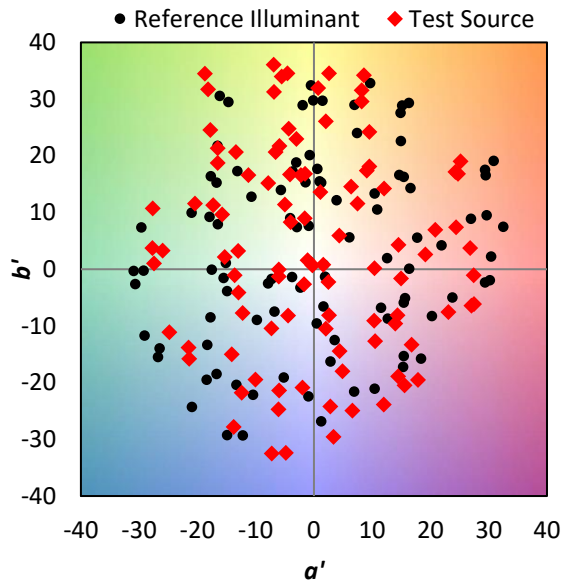
TM-30-18

Summary

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

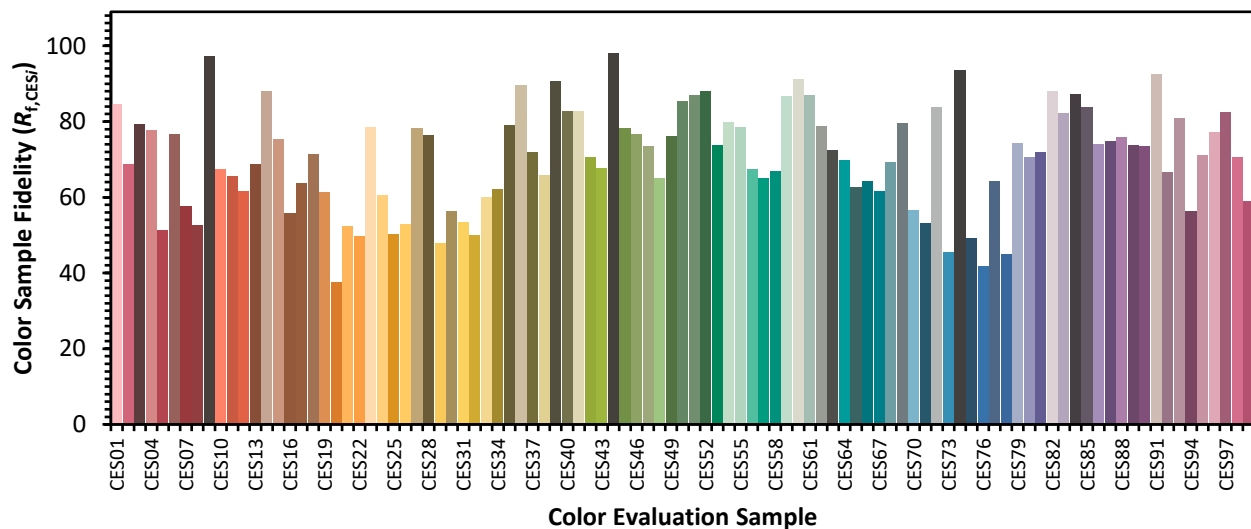


Color Vector Graphics

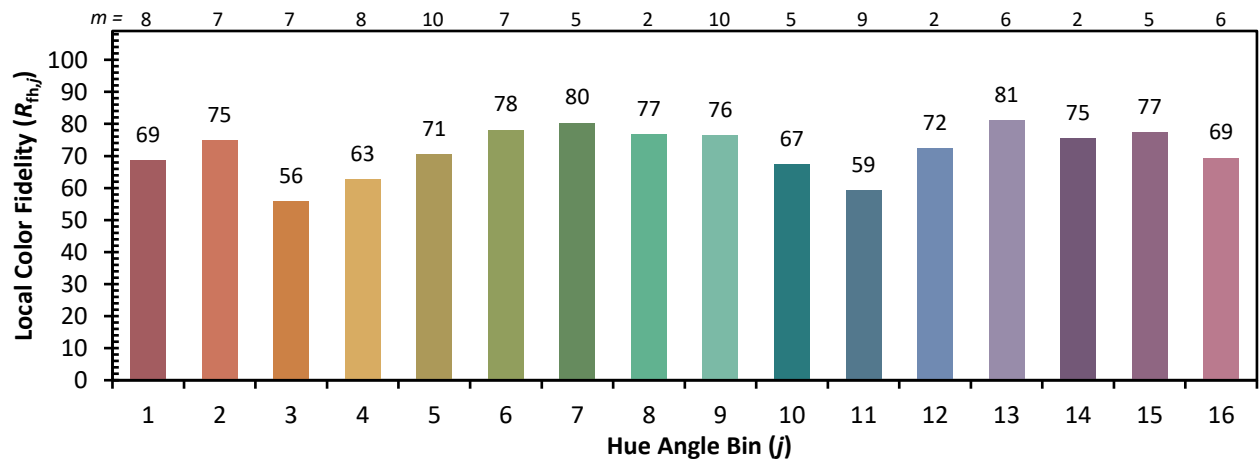
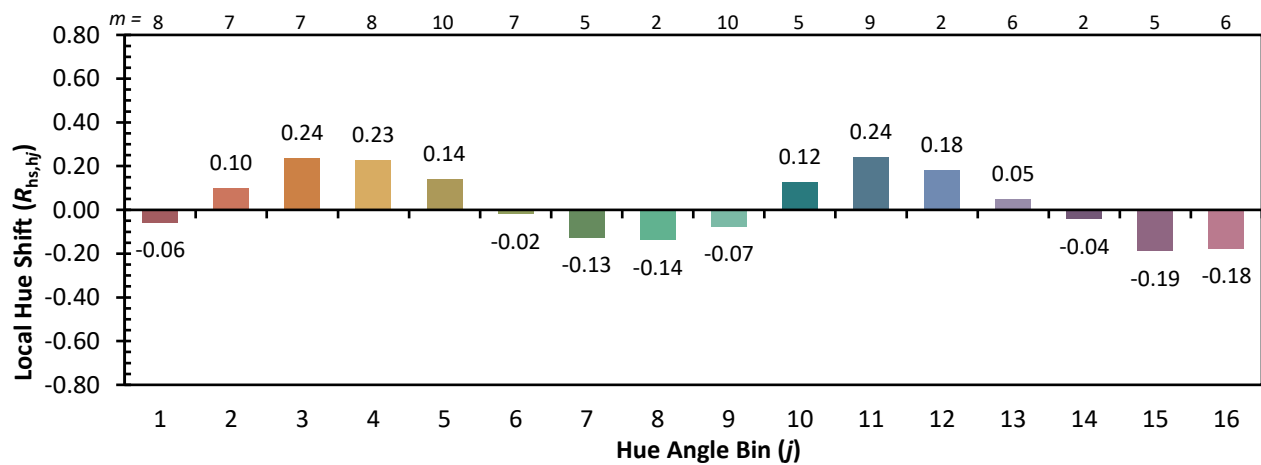
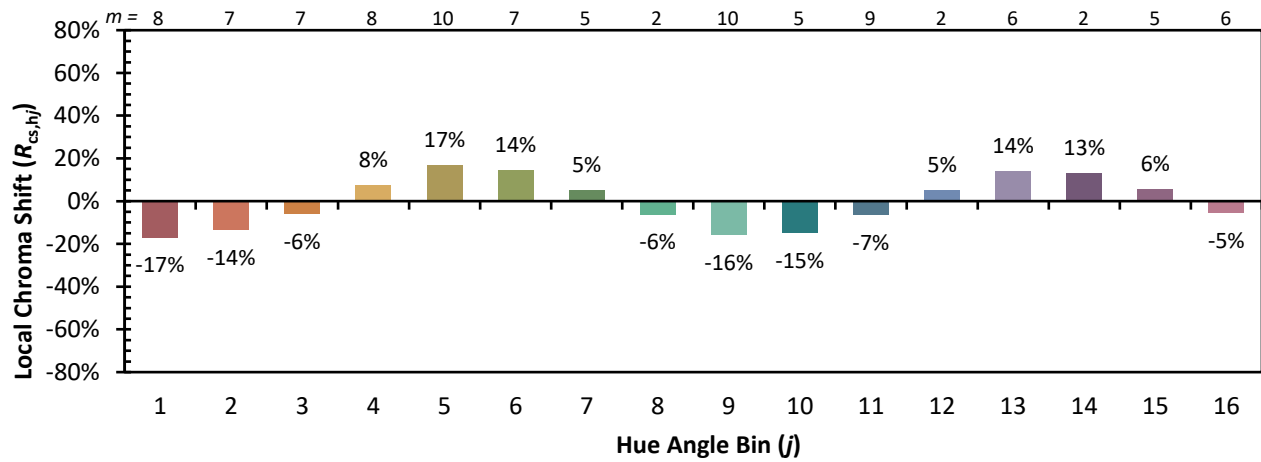


Individual Sample Fidelity Index ($R_{f,i}$)

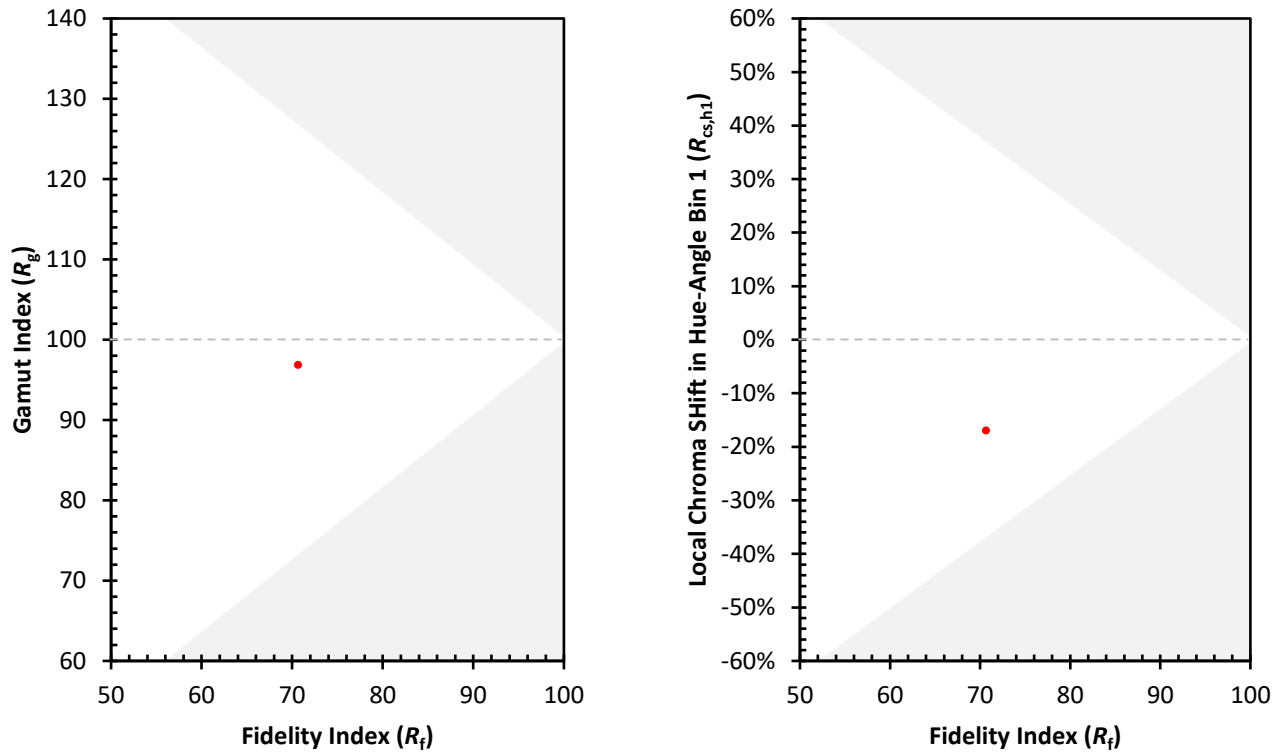
CES01 = 85	CES26 = 53	CES51 = 87	CES76 = 42
CES02 = 59	CES27 = 78	CES52 = 88	CES77 = 64
CES03 = 30	CES28 = 76	CES53 = 74	CES78 = 45
CES04 = 69	CES29 = 48	CES54 = 80	CES79 = 74
CES05 = 46	CES30 = 56	CES55 = 79	CES80 = 71
CES06 = 50	CES31 = 54	CES56 = 68	CES81 = 72
CES07 = 39	CES32 = 50	CES57 = 65	CES82 = 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)