

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: P1067928

Luminaire Tested: **NAV-SA3D-727-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067928
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA3D-727-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 3xLight Square PACKAGE
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13189.8 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 160.9
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



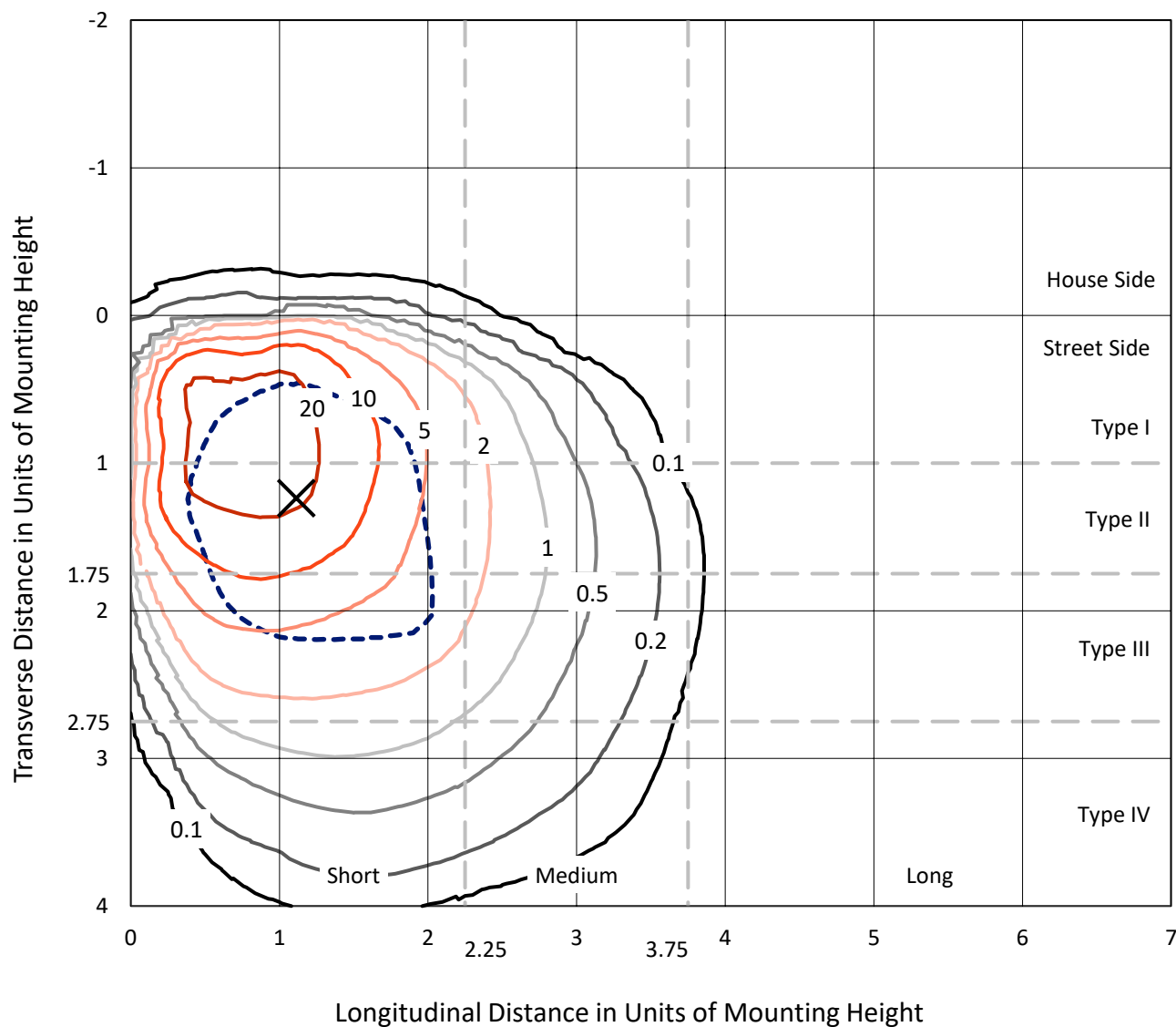
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

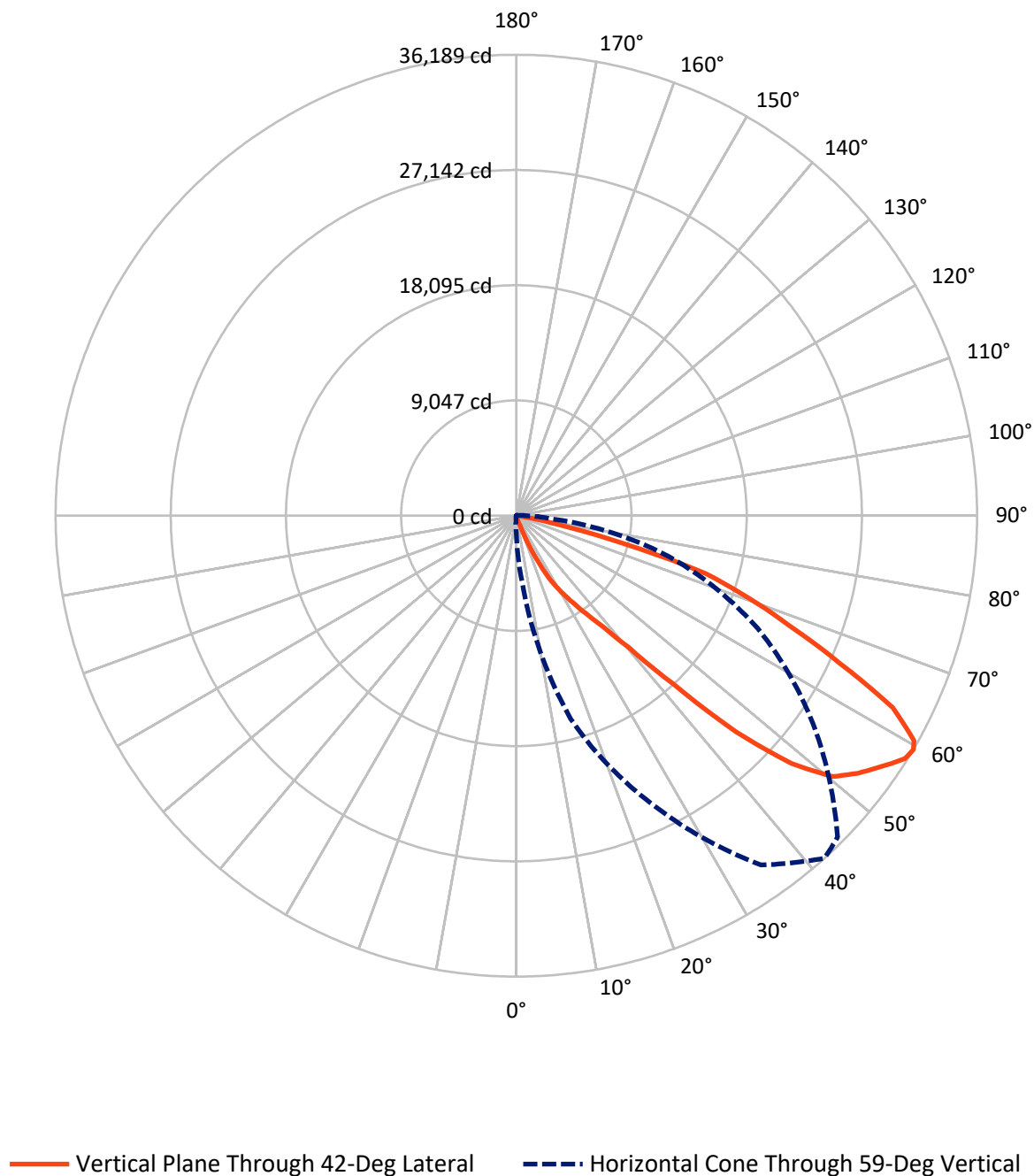


Based on 15 foot mounting height. Maximum calculated value = 39.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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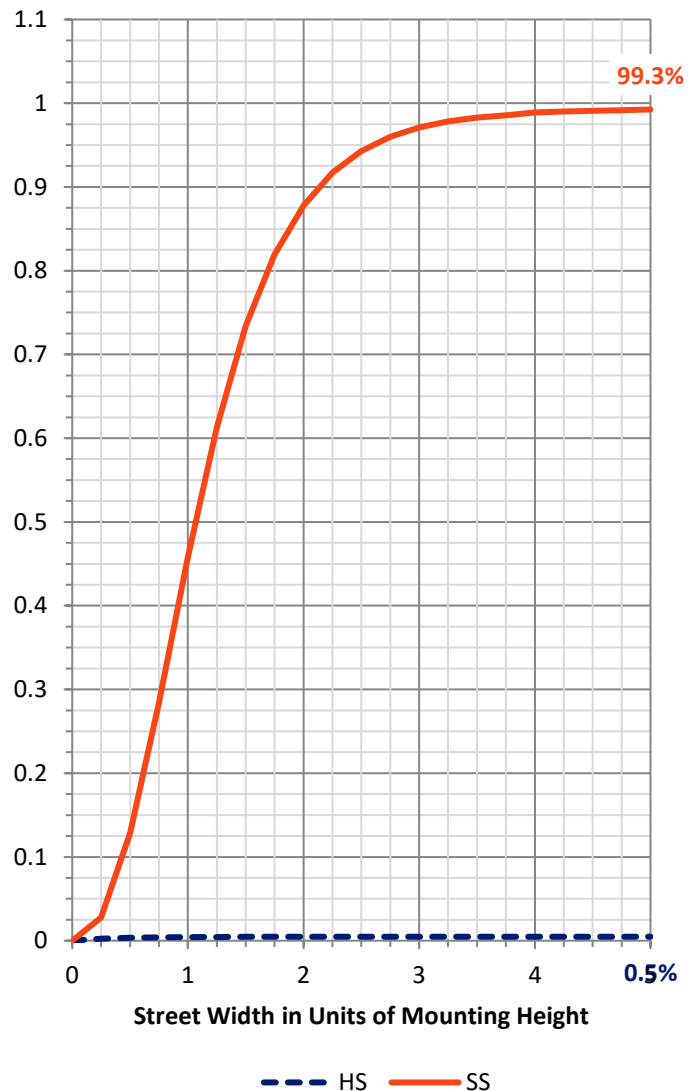
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	63.5	0.0	63.5
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	13126.2	0.0	13126.2
	% Fixture	99.5	0.0	99.5
Total	Lumens	13189.8	0.0	13189.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.9	0.0
10°-20°	19.2	0.1
20°-30°	246.0	1.9
30°-40°	829.5	6.3
40°-50°	2505.4	19.0
50°-60°	4422.6	33.5
60°-70°	3894.1	29.5
70°-80°	1239.5	9.4
80°-90°	29.7	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°	13189.8	100.0
0°-180°	13189.8	100.0



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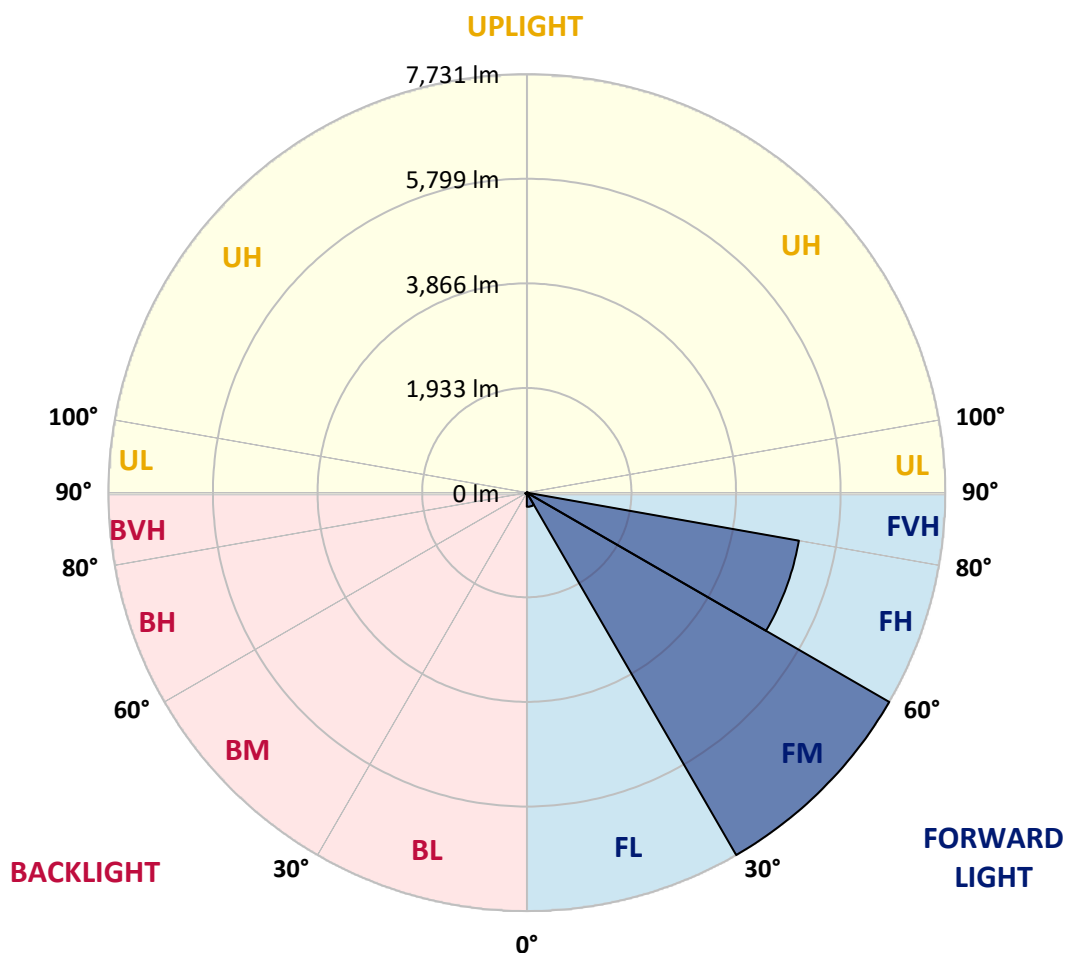
CATALOG NUMBER: NAV-SA3D-727-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	262.0	2.0			
FM	(30°-60°)	7731.4	58.6			
FH	(60°-80°)	5104.6	38.7			G3/7500
FVH	(80°-90°)	28.2	0.2			G1/100
BL	(0°-30°)	7.1	0.1	B0/110		
BM	(30°-60°)	26.0	0.2	B0/220		
BH	(60°-80°)	29.1	0.2	B0/110		G0/110
BVH	(80°-90°)	1.4	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2
2.5°	57.9	57.9	53.8	49.6	45.5	41.4	41.4	41.4	37.2	37.2	33.1
5°	66.2	66.2	62.0	57.9	57.9	53.8	53.8	49.6	45.5	45.5	41.4
7.5°	70.3	70.3	70.3	70.3	66.2	66.2	66.2	62.0	57.9	53.8	49.6
10°	74.4	78.6	82.7	82.7	82.7	82.7	82.7	78.6	70.3	66.2	57.9
12.5°	82.7	86.8	95.1	103.4	103.4	107.5	103.4	99.3	91.0	78.6	66.2
15°	91.0	99.3	111.7	128.2	144.7	148.9	148.9	136.5	119.9	95.1	78.6
17.5°	103.4	115.8	148.9	202.6	260.5	306.0	306.0	272.9	190.2	124.1	91.0
20°	111.7	136.5	239.9	488.0	744.4	934.6	897.4	794.0	426.0	194.4	99.3
22.5°	124.1	173.7	508.7	1282.0	1985.0	2332.4	2249.7	1707.9	955.3	347.4	119.9
25°	140.6	252.3	1009.0	2402.7	3688.8	4065.1	4011.4	3188.4	1741.0	583.1	153.0
27.5°	173.7	372.2	1617.0	3643.3	5442.2	5764.8	5744.1	4668.9	2783.2	938.7	198.5
30°	219.2	541.7	2398.6	4950.1	6604.3	6931.0	6827.6	5752.4	3755.0	1435.0	256.4
32.5°	272.9	756.8	3105.7	5913.7	7675.4	8105.5	7981.4	6695.3	4536.6	1856.8	380.5
35°	355.6	967.7	3804.6	6765.6	8911.9	9457.8	9251.0	7667.1	5210.7	2332.4	459.0
37.5°	397.0	1091.8	4445.6	7691.9	10301.4	11045.8	10888.6	8895.3	5897.1	2940.3	562.4
40°	401.1	1240.6	5111.4	8899.5	12265.7	13593.2	13312.0	11004.4	7175.0	3721.9	723.7
42.5°	413.5	1463.9	5975.7	10958.9	16124.1	18030.5	17712.1	14883.5	10073.9	5289.2	1025.6
45°	471.4	1885.8	7737.4	14809.0	21421.6	24217.1	23849.1	20288.5	14122.5	8237.8	1749.3
47.5°	674.1	2836.9	10826.6	18965.1	26839.0	29068.0	28977.0	24548.0	17790.7	11260.8	2965.1
50°	1083.5	4354.6	14341.7	22459.6	30288.0	32202.7	31975.2	26326.2	19883.2	13324.4	3800.5
52.5°	1447.4	5806.2	16550.0	23745.7	31317.7	33600.5	33323.4	26975.5	20433.2	13932.3	4032.1
55°	1538.4	6331.4	17207.6	24142.7	32000.0	34783.2	34382.1	27409.7	20503.5	13498.1	3647.5
57.5°	1492.9	5835.1	16781.6	24531.4	32951.2	35999.0	35465.5	28257.5	20739.2	12762.0	3035.4
59°	1414.3	5223.1	16517.0	24841.6	33476.4	36189.2	35688.9	28443.6	20896.4	12427.0	2663.2
60°	1323.3	4809.5	16310.2	25044.2	33443.3	35891.5	35374.6	28356.7	20958.4	12137.5	2485.4
62.5°	1021.5	3837.7	16012.4	24899.5	31354.9	33174.5	32880.9	26231.1	20048.6	11211.2	1960.2
65°	794.0	2936.2	14920.7	22207.3	26681.9	27906.0	27815.0	22211.5	16872.6	9664.5	1414.3
67.5°	628.6	2142.2	12617.2	17985.0	21467.1	23208.1	23141.9	18030.5	12807.5	7385.9	1017.3
70°	512.8	1526.0	8651.3	13560.1	17170.4	19362.1	19267.0	14511.3	9490.8	4685.5	740.2
72.5°	434.2	976.0	5247.9	10222.8	14329.3	15582.3	15305.3	11707.4	6902.1	2551.6	587.2
75°	368.1	599.6	2601.2	6372.7	8535.5	8527.3	8250.2	6199.0	3705.4	1248.9	467.3
77.5°	297.8	421.8	1021.5	1749.3	2692.2	3333.2	3279.4	2195.9	1108.3	363.9	289.5
80°	194.4	198.5	272.9	479.7	740.2	818.8	930.5	669.9	322.6	173.7	119.9
82.5°	86.8	95.1	124.1	157.1	157.1	144.7	128.2	95.1	70.3	57.9	28.9
85°	20.7	28.9	20.7	24.8	20.7	16.5	16.5	8.3	0.0	0.0	0.0
87.5°	4.1	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°	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2
2.5°	33.1	33.1	33.1	28.9	28.9	28.9	24.8	24.8	24.8	20.7	20.7
5°	41.4	37.2	33.1	33.1	28.9	28.9	24.8	20.7	20.7	20.7	16.5
7.5°	45.5	41.4	37.2	33.1	28.9	24.8	24.8	20.7	16.5	16.5	16.5
10°	53.8	49.6	41.4	33.1	28.9	24.8	20.7	20.7	16.5	12.4	12.4
12.5°	62.0	53.8	45.5	37.2	28.9	24.8	20.7	20.7	16.5	12.4	8.3
15°	70.3	62.0	49.6	37.2	28.9	24.8	20.7	20.7	12.4	8.3	4.1
17.5°	78.6	66.2	49.6	41.4	28.9	24.8	20.7	16.5	8.3	4.1	0.0
20°	82.7	70.3	53.8	41.4	28.9	24.8	20.7	12.4	4.1	0.0	0.0
22.5°	91.0	78.6	57.9	41.4	28.9	20.7	12.4	4.1	0.0	0.0	0.0
25°	107.5	82.7	57.9	41.4	28.9	20.7	8.3	0.0	0.0	0.0	0.0
27.5°	119.9	91.0	57.9	41.4	28.9	16.5	4.1	0.0	0.0	0.0	0.0
30°	140.6	99.3	62.0	41.4	28.9	12.4	4.1	0.0	0.0	0.0	0.0
32.5°	173.7	107.5	62.0	41.4	24.8	12.4	0.0	0.0	0.0	0.0	0.0
35°	210.9	124.1	62.0	41.4	24.8	12.4	0.0	0.0	0.0	0.0	0.0
37.5°	215.0	132.3	62.0	41.4	24.8	8.3	0.0	0.0	0.0	0.0	0.0
40°	223.3	124.1	66.2	41.4	24.8	8.3	0.0	0.0	0.0	0.0	0.0
42.5°	256.4	115.8	70.3	41.4	24.8	8.3	0.0	0.0	0.0	0.0	0.0
45°	380.5	119.9	70.3	45.5	24.8	12.4	0.0	0.0	0.0	0.0	0.0
47.5°	661.7	124.1	66.2	45.5	24.8	12.4	0.0	0.0	0.0	0.0	0.0
50°	847.8	144.7	66.2	49.6	28.9	8.3	0.0	0.0	0.0	0.0	0.0
52.5°	901.5	169.6	66.2	53.8	37.2	4.1	0.0	0.0	0.0	0.0	0.0
55°	876.7	198.5	70.3	57.9	45.5	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	810.5	215.0	74.4	62.0	49.6	0.0	0.0	0.0	0.0	0.0	0.0
59°	740.2	227.4	86.8	66.2	49.6	0.0	0.0	0.0	0.0	0.0	0.0
60°	682.3	239.9	91.0	70.3	49.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	550.0	256.4	99.3	82.7	41.4	0.0	0.0	0.0	0.0	0.0	0.0
65°	479.7	268.8	103.4	91.0	37.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	438.4	277.1	111.7	95.1	33.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	405.3	272.9	119.9	91.0	28.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	368.1	260.5	144.7	82.7	24.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	330.8	235.7	157.1	74.4	16.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	239.9	198.5	144.7	66.2	8.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	103.4	107.5	103.4	49.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	20.7	24.8	20.7	12.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2
2.5°	20.7	20.7	20.7	20.7	24.8	24.8	33.1	41.4	49.6	53.8	53.8
5°	16.5	16.5	16.5	16.5	16.5	20.7	24.8	33.1	45.5	49.6	49.6
7.5°	12.4	12.4	12.4	12.4	12.4	12.4	20.7	28.9	41.4	45.5	49.6
10°	12.4	8.3	8.3	4.1	4.1	8.3	12.4	24.8	37.2	41.4	45.5
12.5°	8.3	4.1	4.1	0.0	0.0	4.1	8.3	20.7	33.1	37.2	41.4
15°	4.1	0.0	0.0	0.0	0.0	0.0	4.1	16.5	28.9	33.1	41.4
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.4	24.8	33.1	37.2
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	20.7	28.9	33.1
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	16.5	24.8	28.9
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.4	16.5	20.7
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	12.4	16.5
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	12.4	16.5
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	8.3	12.4
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	8.3	12.4
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	8.3	8.3
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	8.3
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	8.3
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	8.3
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	8.3
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	8.3
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	4.1
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	4.1
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	4.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	8.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	8.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	4.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	4.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	4.1
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°	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2
2.5°	57.9	57.9	53.8	49.6	49.6	49.6	53.8	57.9	57.9	57.9
5°	53.8	53.8	49.6	49.6	49.6	49.6	53.8	62.0	66.2	66.2
7.5°	53.8	53.8	49.6	49.6	49.6	49.6	53.8	62.0	66.2	70.3
10°	49.6	49.6	49.6	49.6	45.5	49.6	53.8	62.0	74.4	74.4
12.5°	49.6	49.6	49.6	49.6	45.5	49.6	57.9	66.2	78.6	82.7
15°	49.6	49.6	49.6	45.5	45.5	49.6	57.9	70.3	82.7	91.0
17.5°	45.5	49.6	49.6	45.5	45.5	49.6	57.9	70.3	91.0	103.4
20°	41.4	45.5	49.6	45.5	45.5	45.5	57.9	70.3	95.1	111.7
22.5°	37.2	41.4	45.5	45.5	41.4	45.5	57.9	74.4	103.4	124.1
25°	33.1	37.2	37.2	41.4	41.4	45.5	57.9	74.4	107.5	140.6
27.5°	24.8	28.9	33.1	37.2	37.2	45.5	57.9	78.6	115.8	173.7
30°	20.7	24.8	28.9	33.1	37.2	45.5	57.9	78.6	124.1	219.2
32.5°	20.7	24.8	28.9	33.1	37.2	41.4	57.9	82.7	136.5	272.9
35°	16.5	20.7	24.8	33.1	33.1	41.4	57.9	82.7	148.9	355.6
37.5°	16.5	20.7	24.8	33.1	33.1	41.4	57.9	82.7	182.0	397.0
40°	12.4	16.5	20.7	33.1	33.1	41.4	62.0	86.8	186.1	401.1
42.5°	12.4	16.5	20.7	28.9	33.1	41.4	62.0	86.8	173.7	413.5
45°	12.4	16.5	20.7	33.1	37.2	45.5	62.0	91.0	169.6	471.4
47.5°	12.4	16.5	20.7	33.1	41.4	45.5	62.0	91.0	173.7	674.1
50°	12.4	16.5	20.7	33.1	45.5	45.5	62.0	91.0	190.2	1083.5
52.5°	8.3	12.4	16.5	28.9	37.2	49.6	66.2	86.8	202.6	1447.4
55°	8.3	8.3	12.4	24.8	33.1	53.8	70.3	86.8	235.7	1538.4
57.5°	8.3	8.3	12.4	20.7	28.9	57.9	74.4	86.8	272.9	1492.9
59°	8.3	8.3	8.3	20.7	24.8	57.9	74.4	91.0	277.1	1414.3
60°	8.3	8.3	8.3	16.5	24.8	57.9	78.6	95.1	281.2	1323.3
62.5°	4.1	4.1	4.1	16.5	20.7	57.9	86.8	115.8	289.5	1021.5
65°	8.3	8.3	4.1	12.4	20.7	49.6	99.3	124.1	293.6	794.0
67.5°	8.3	8.3	8.3	16.5	20.7	49.6	103.4	128.2	293.6	628.6
70°	8.3	8.3	8.3	16.5	24.8	49.6	103.4	132.3	289.5	512.8
72.5°	8.3	8.3	8.3	16.5	24.8	45.5	95.1	136.5	277.1	434.2
75°	8.3	8.3	8.3	12.4	20.7	41.4	91.0	148.9	252.3	368.1
77.5°	8.3	8.3	8.3	8.3	16.5	33.1	82.7	165.4	223.3	297.8
80°	12.4	8.3	8.3	8.3	12.4	28.9	78.6	161.3	186.1	194.4
82.5°	12.4	8.3	8.3	4.1	8.3	20.7	62.0	124.1	95.1	86.8
85°	8.3	8.3	8.3	4.1	4.1	12.4	28.9	37.2	28.9	20.7
87.5°	8.3	8.3	8.3	4.1	4.1	4.1	4.1	4.1	4.1	4.1
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: SP1-2407-184-3

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-727-U-5WQ

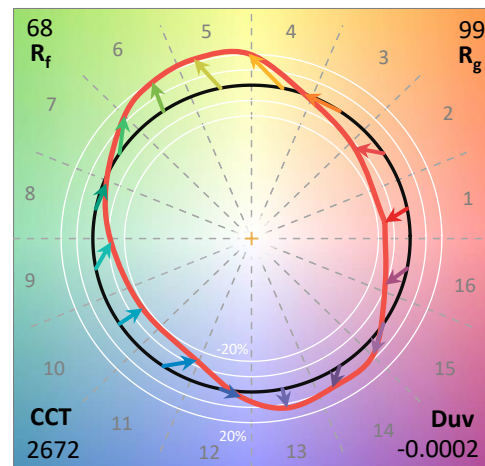
Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-3
 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-727-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K):	2672	CRI (Ra):	71.1		
CIE u':	0.2638	R1:	68.3	R9:	-27.8
CIE v':	0.5276	R2:	79.8	R10:	54.4
Duv:	-0.0002	R3:	91.2	R11:	65.8
CIE x:	0.4619	R4:	69.4	R12:	45.6
CIE y:	0.4106	R5:	66.5	R13:	69.8
CIE z:	0.1275	R6:	72.6	R14:	94.5
Peak Wavelength (nm):	601	R7:	77.0	R15:	60.1
Dominant Wavelength (nm):	584	R8:	44.1		
Purity:	61.88407				
Rf:	67.9				
Rg:	98.6				



Test Conditions

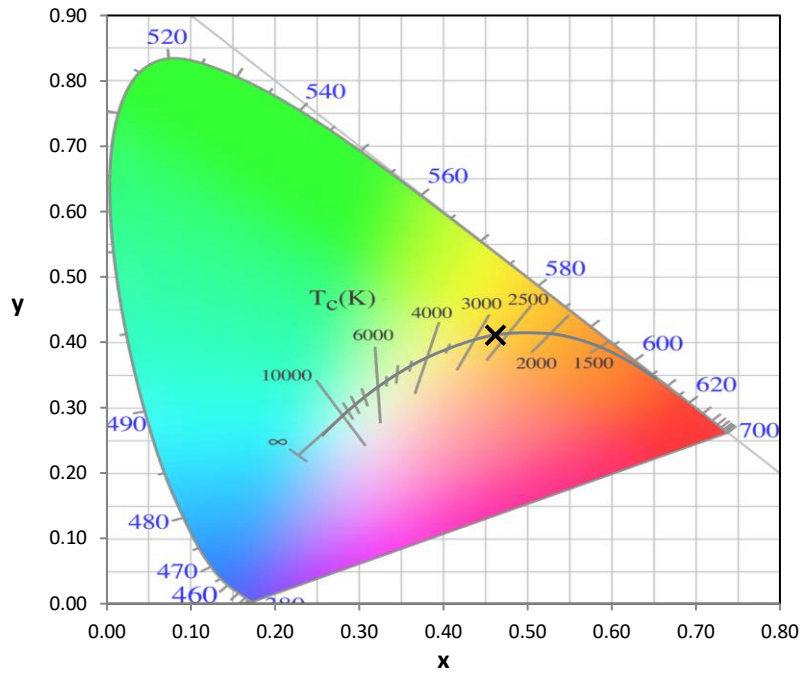
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-3

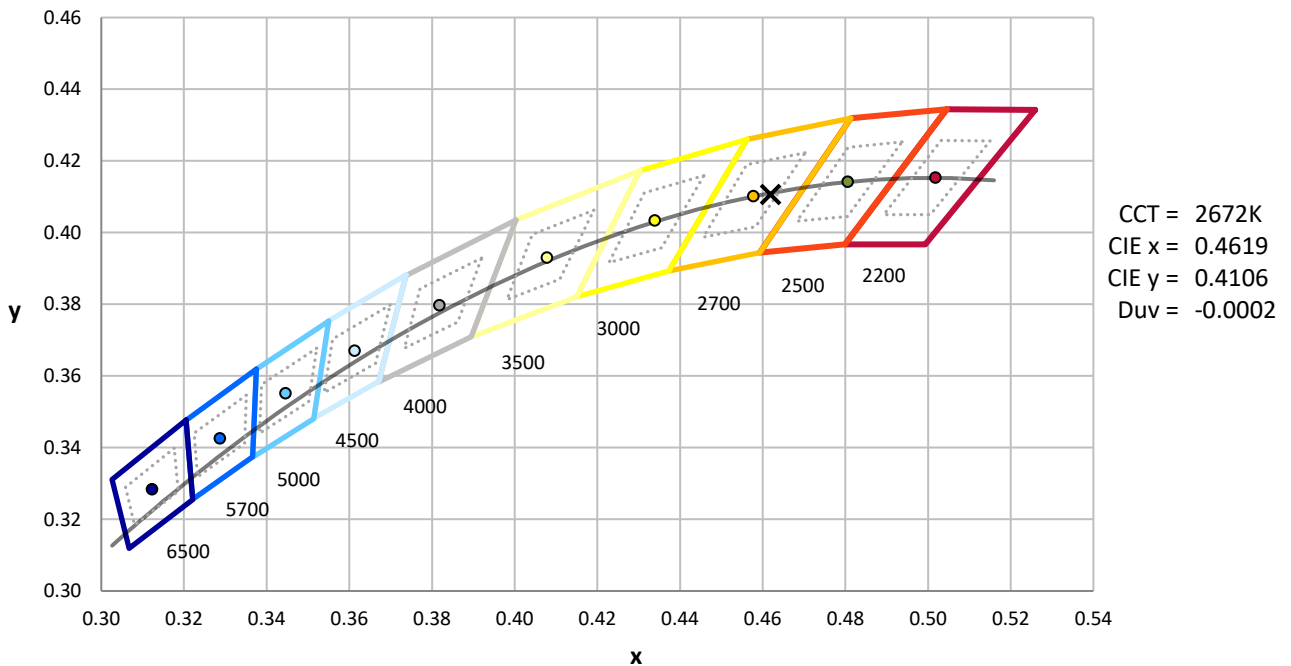
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



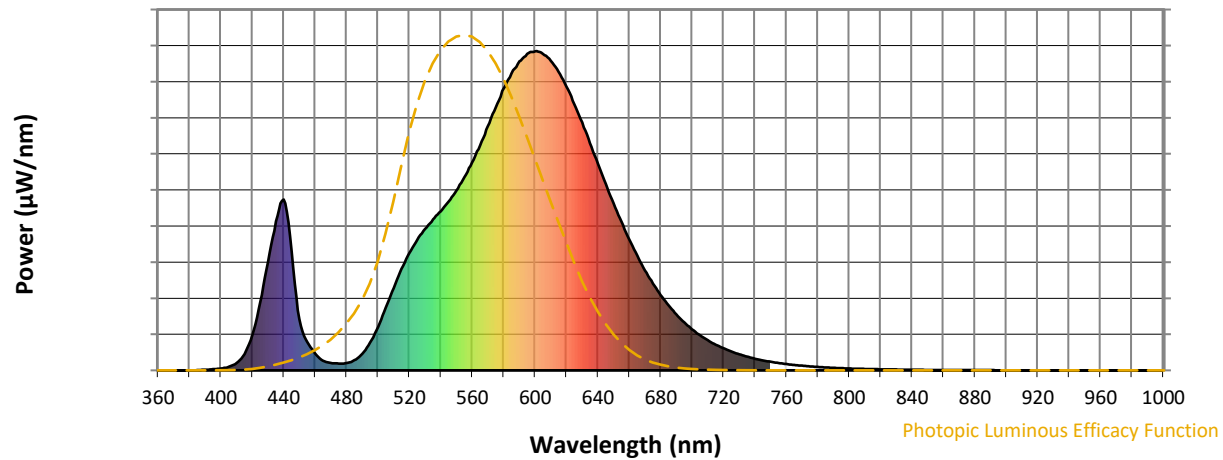
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-3

Photopic Flux vs. Wavelength

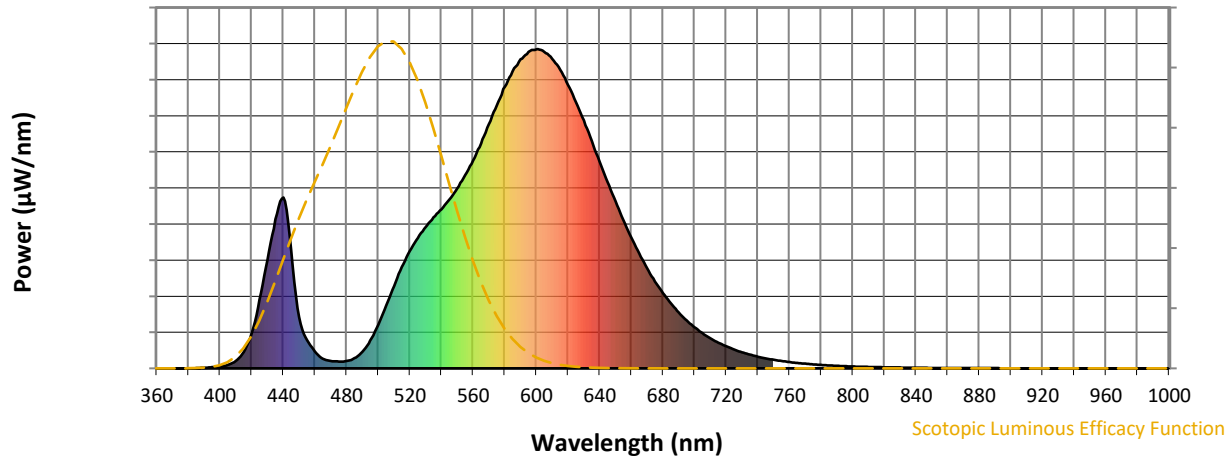


Photopic Lumens: NR

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Scotopic Flux vs. Wavelength



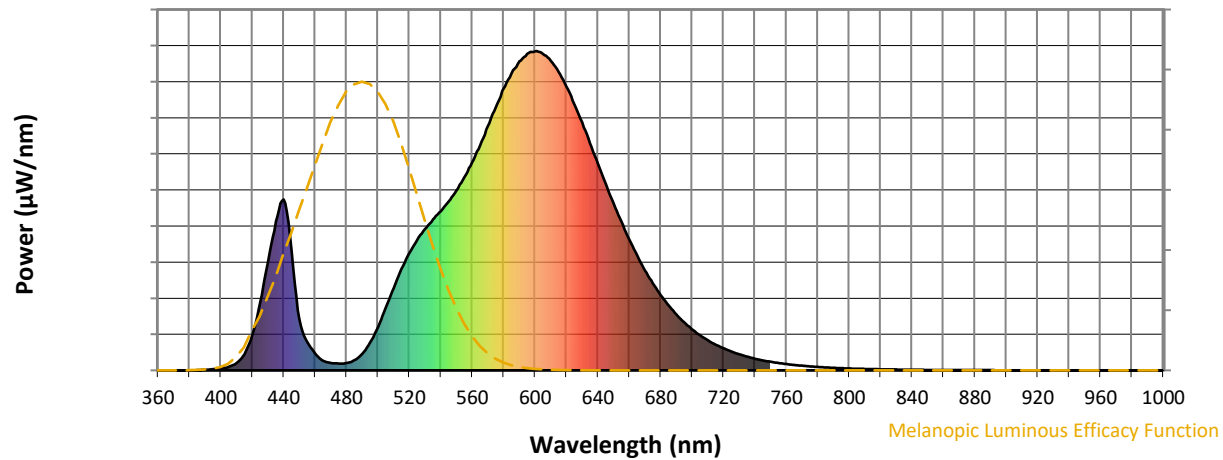
Scotopic Lumens: NR

S/P: 1.02

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.71

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

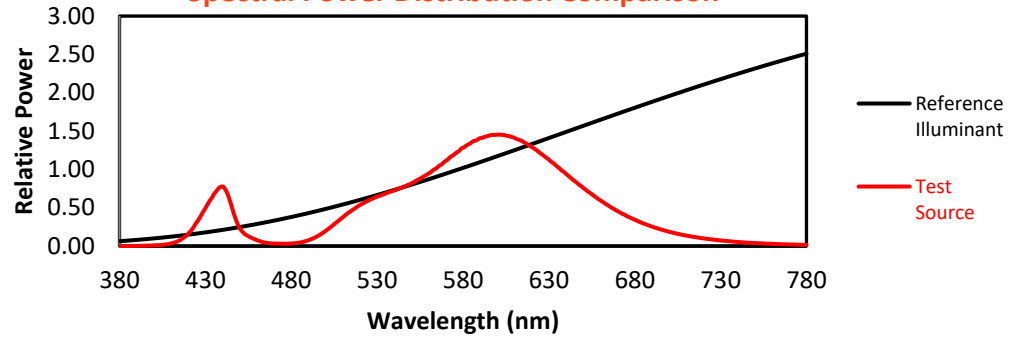
REPORT NUMBER: SP1-2407-184-3

TM-30-18

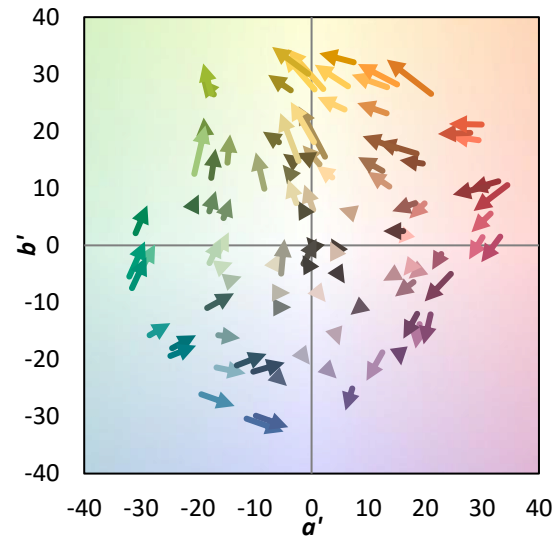
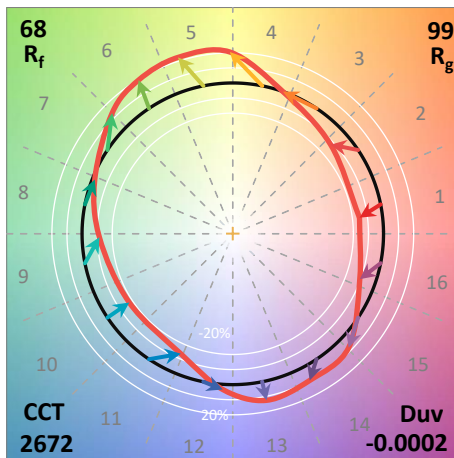
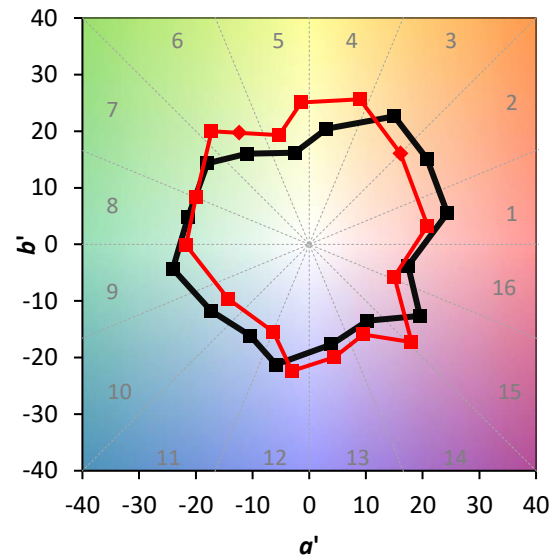
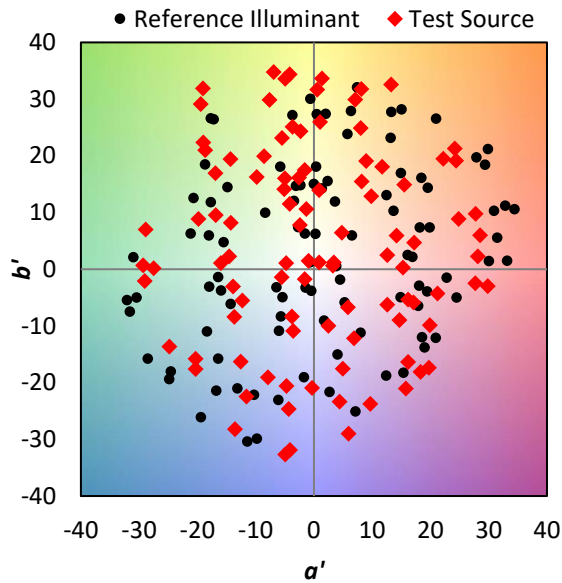
Summary

$R_f = 67.9$
 $R_g = 98.6$
 $CIE R_a = 71.1$
 $R_g = -27.8$

Spectral Power Distribution Comparison

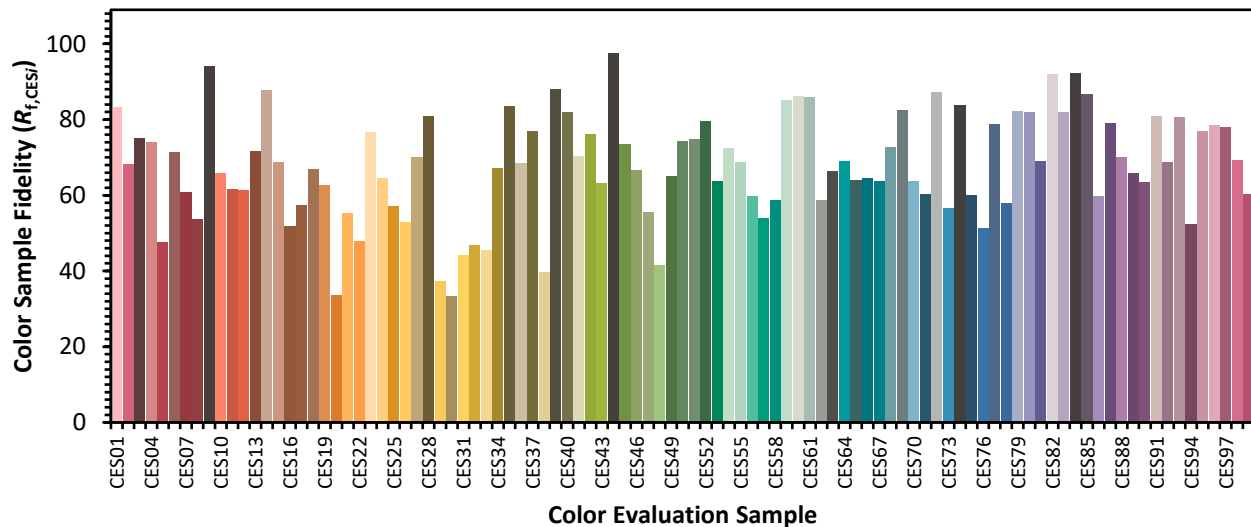


Color Vector Graphics

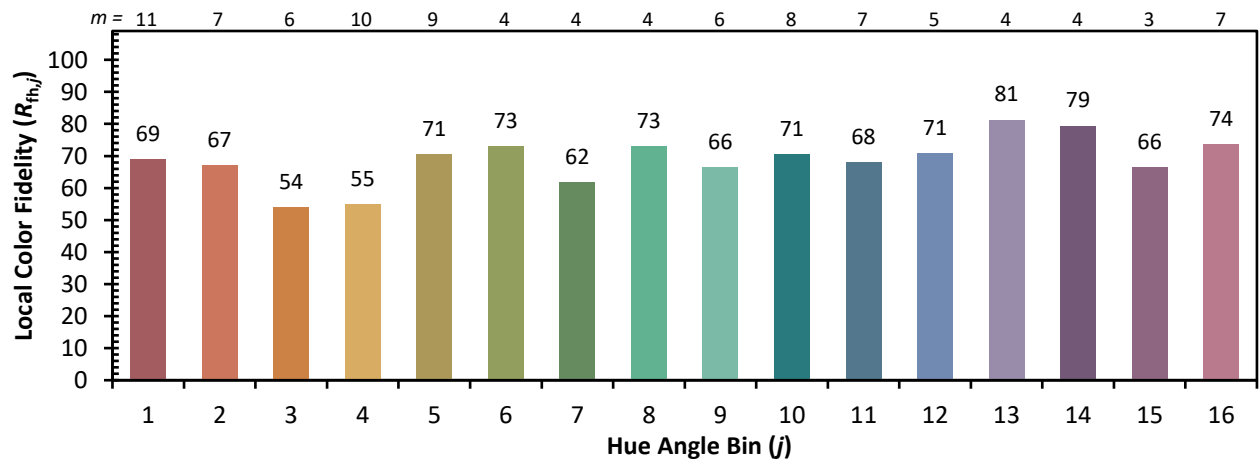
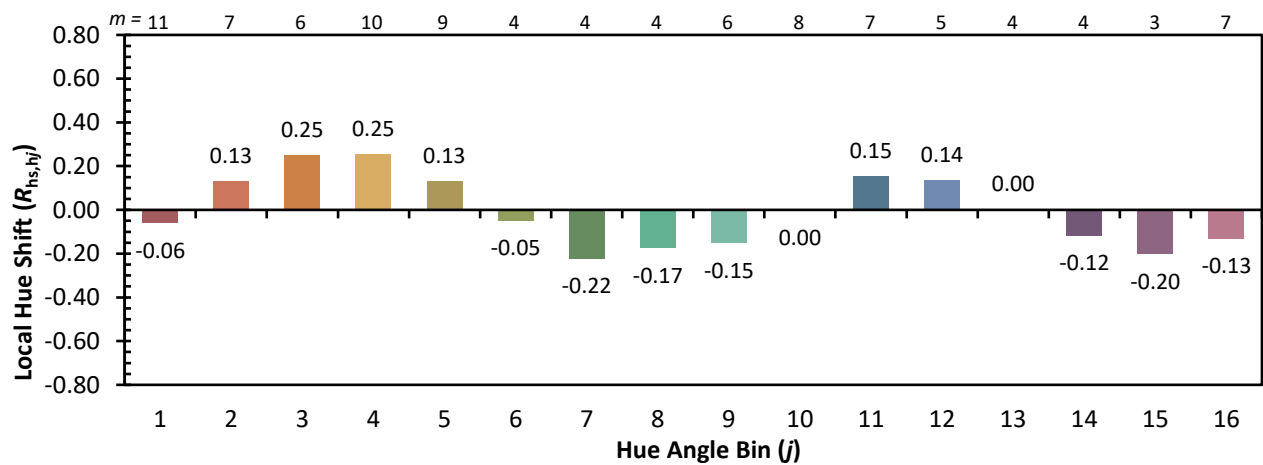
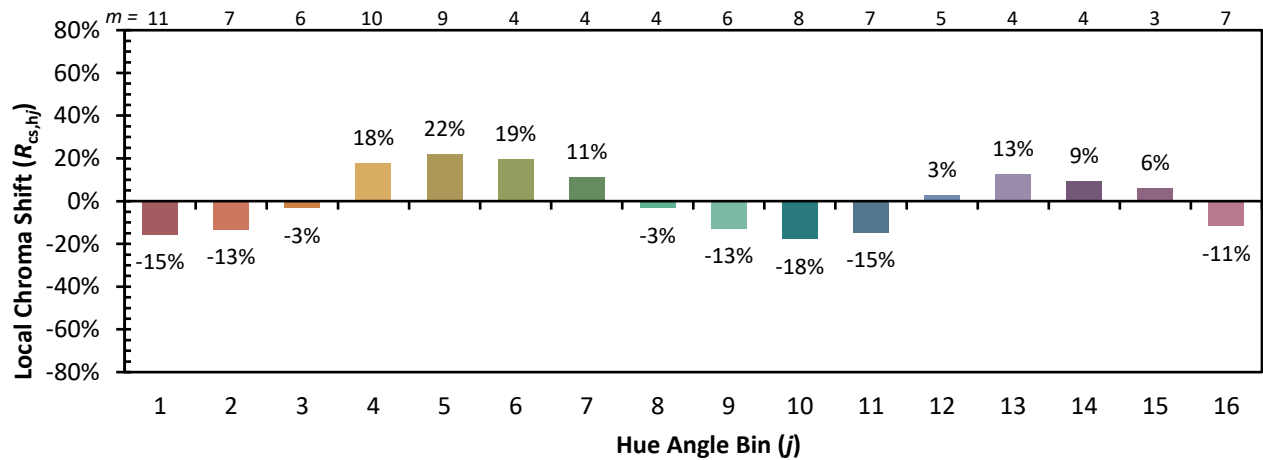


Individual Sample Fidelity Index ($R_{f,i}$)

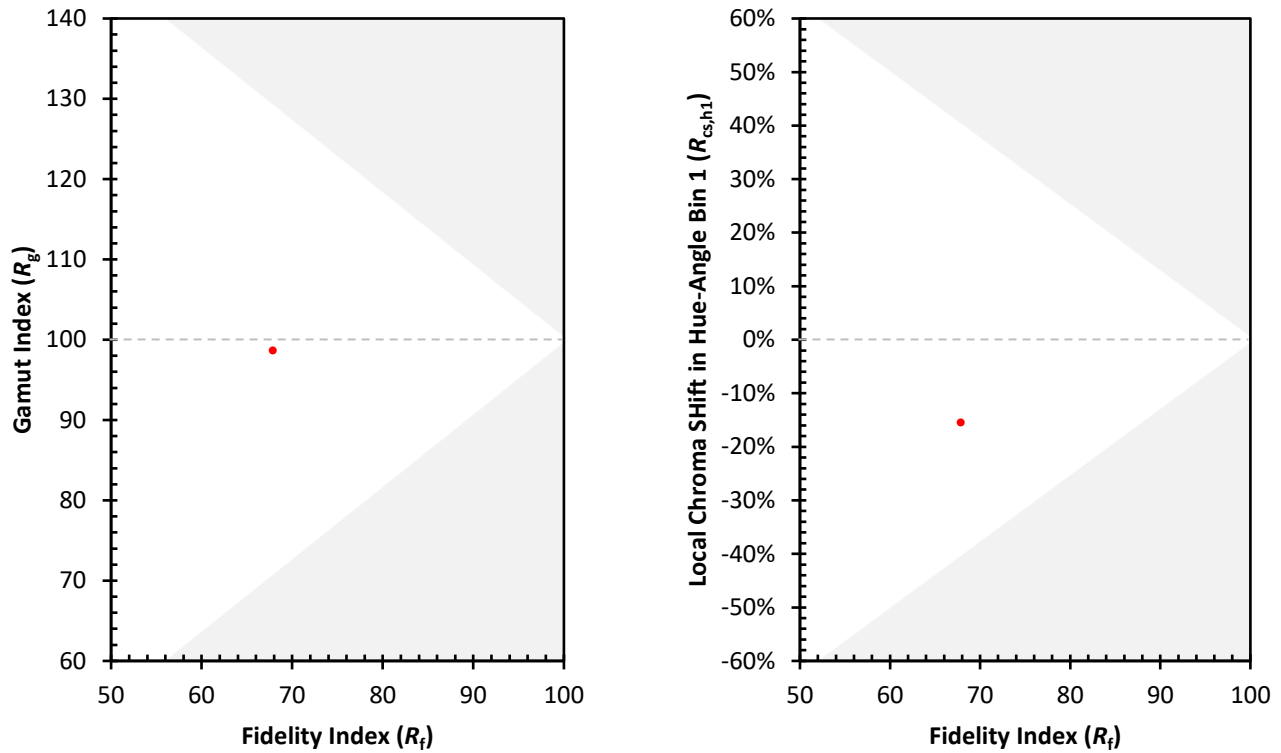
CES01 = 86	CES26 = 53	CES51 = 75	CES76 = 51
CES02 = 63	CES27 = 70	CES52 = 80	CES77 = 79
CES03 = 31	CES28 = 81	CES53 = 64	CES78 = 58
CES04 = 71	CES29 = 37	CES54 = 73	CES79 = 82
CES05 = 50	CES30 = 33	CES55 = 69	CES80 = 82
CES06 = 52	CES31 = 44	CES56 = 60	CES81 = 69
CES07 = 42	CES32 = 47	CES57 = 54	CES82 = 92
CES08 = 41	CES33 = 45	CES58 = 59	CES83 = 82
CES09 = 29	CES34 = 67	CES59 = 85	CES84 = 92
CES10 = 77	CES35 = 84	CES60 = 86	CES85 = 87
CES11 = 60	CES36 = 68	CES61 = 86	CES86 = 60
CES12 = 66	CES37 = 77	CES62 = 59	CES87 = 79
CES13 = 44	CES38 = 40	CES63 = 66	CES88 = 70
CES14 = 74	CES39 = 88	CES64 = 69	CES89 = 66
CES15 = 72	CES40 = 82	CES65 = 64	CES90 = 64
CES16 = 48	CES41 = 70	CES66 = 65	CES91 = 81
CES17 = 51	CES42 = 76	CES67 = 64	CES92 = 69
CES18 = 57	CES43 = 63	CES68 = 73	CES93 = 81
CES19 = 73	CES44 = 97	CES69 = 83	CES94 = 53
CES20 = 67	CES45 = 74	CES70 = 64	CES95 = 77
CES21 = 88	CES46 = 67	CES71 = 60	CES96 = 79
CES22 = 80	CES47 = 55	CES72 = 87	CES97 = 78
CES23 = 92	CES48 = 42	CES73 = 57	CES98 = 69
CES24 = 92	CES49 = 65	CES74 = 84	CES99 = 60
CES25 = 73	CES50 = 74	CES75 = 60	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)