

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: P1067902

Luminaire Tested: **NAV-SA3B-722-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067902
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA3B-722-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 3xLight Square PACKAGE
70CRI 2200K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8511 lumens
Efficiency: N/A
Efficacy: 80.1 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): 106.2
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



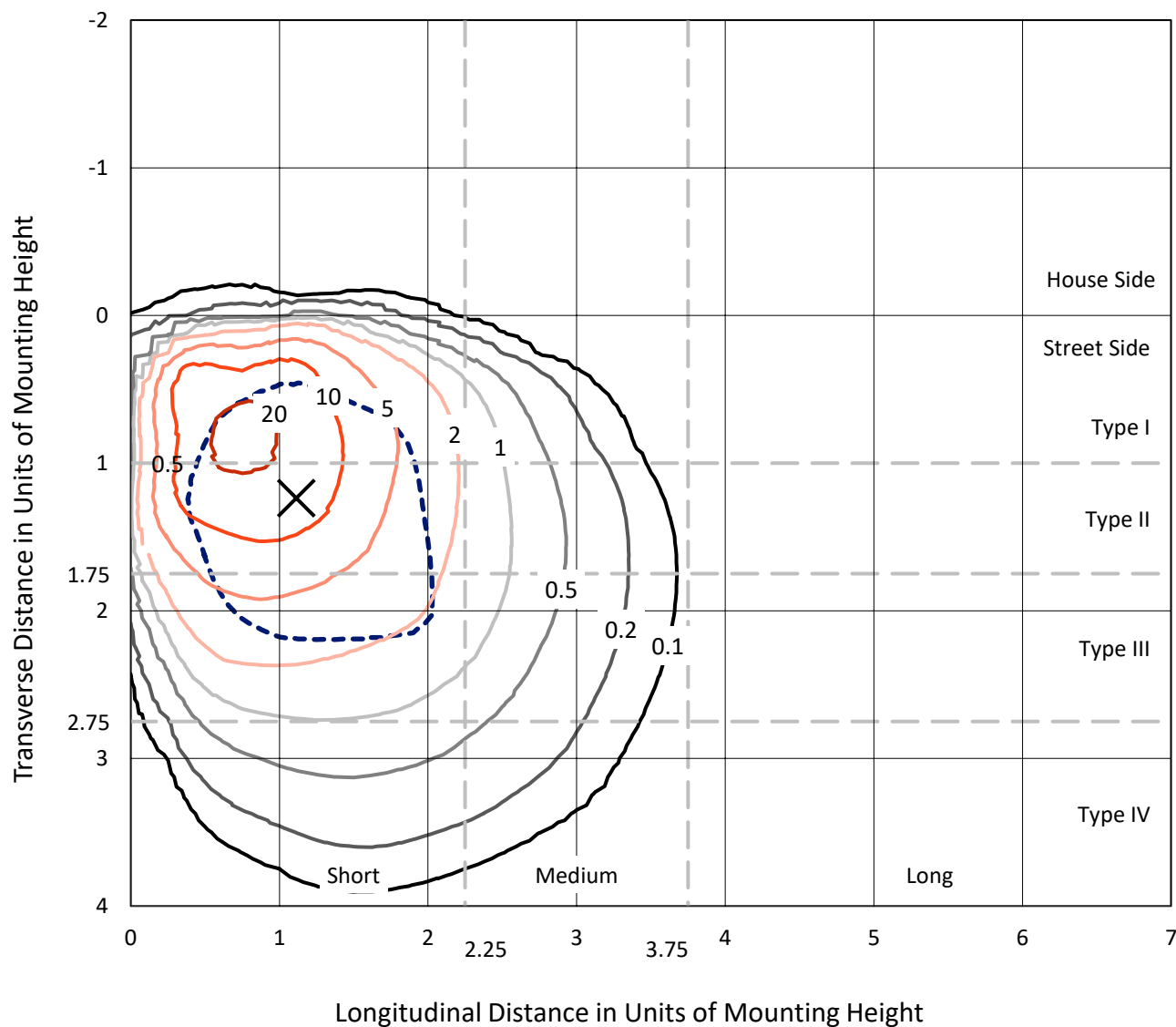
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

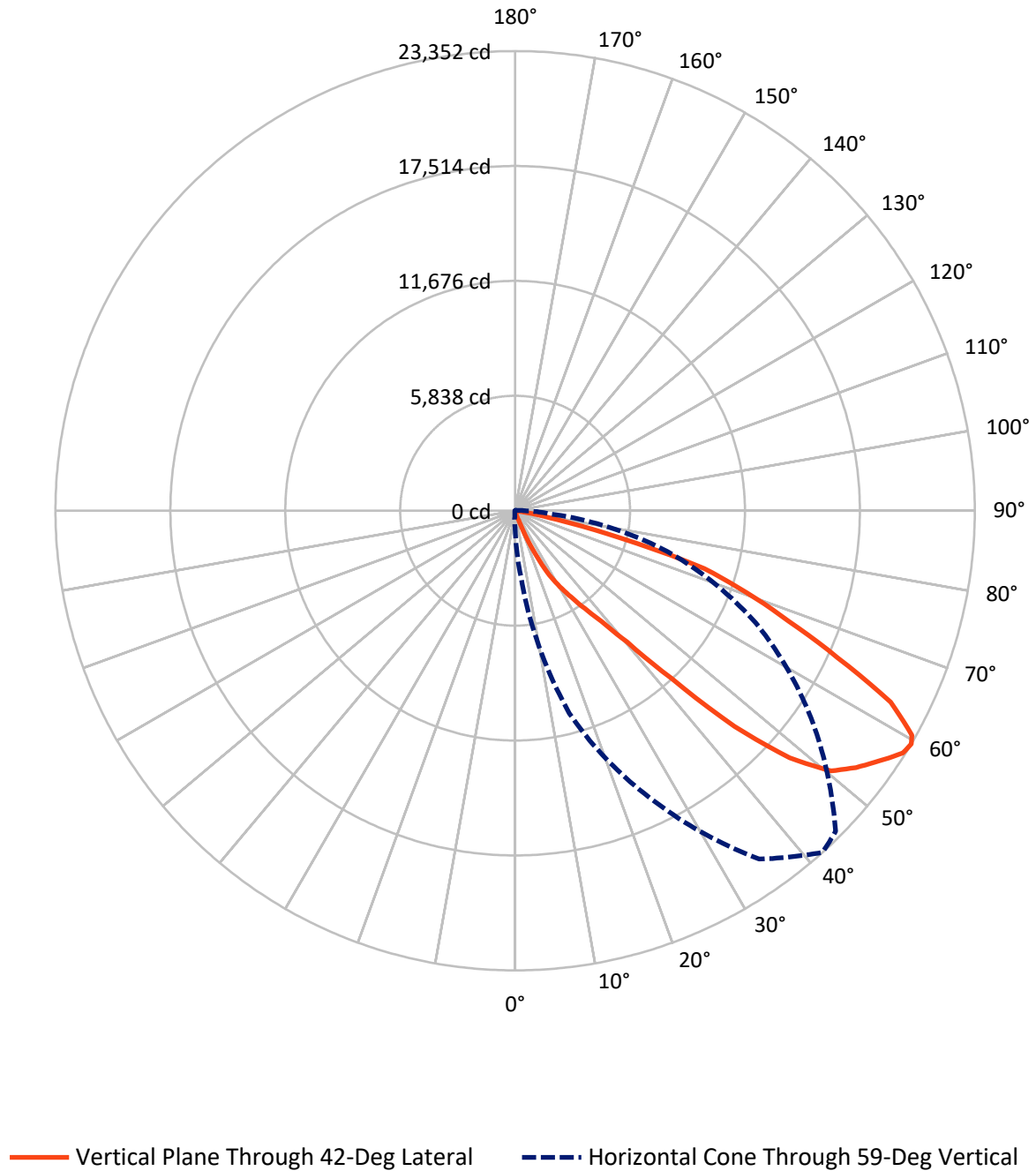


Based on 15 foot mounting height. Maximum calculated value = 25.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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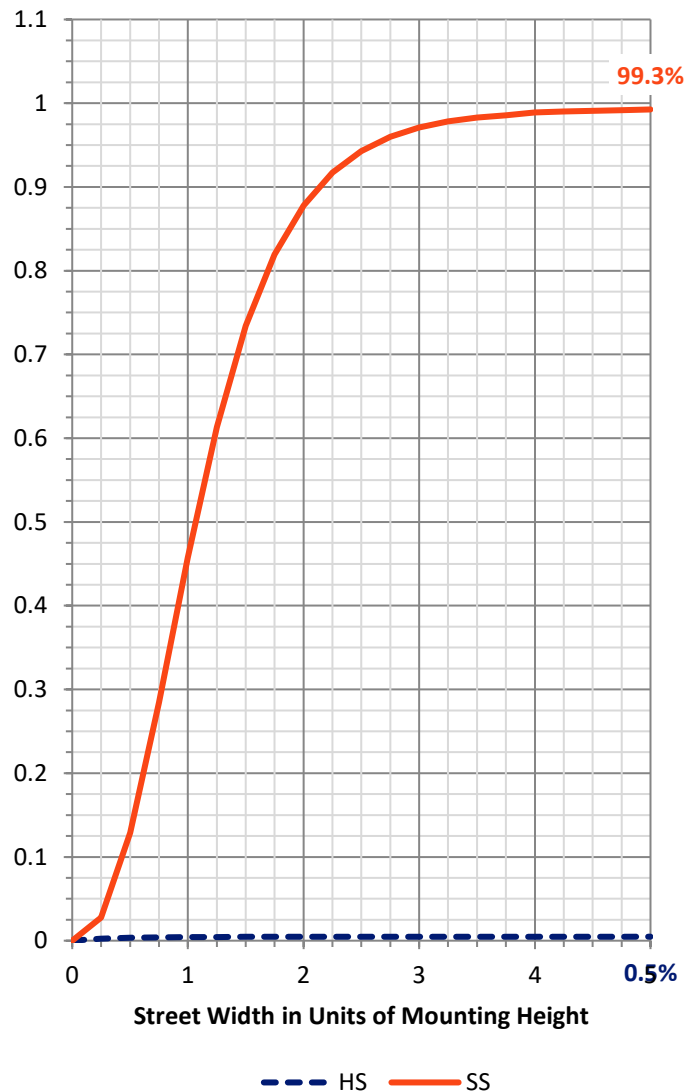
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	41.0	0.0	41.0
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	8470.0	0.0	8470.0
	% Fixture	99.5	0.0	99.5
Total	Lumens	8511.0	0.0	8511.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.5	0.0
10°-20°	12.4	0.1
20°-30°	158.8	1.9
30°-40°	535.2	6.3
40°-50°	1616.6	19.0
50°-60°	2853.8	33.5
60°-70°	2512.8	29.5
70°-80°	799.8	9.4
80°-90°	19.1	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°	8511.0	100.0
0°-180°	8511.0	100.0



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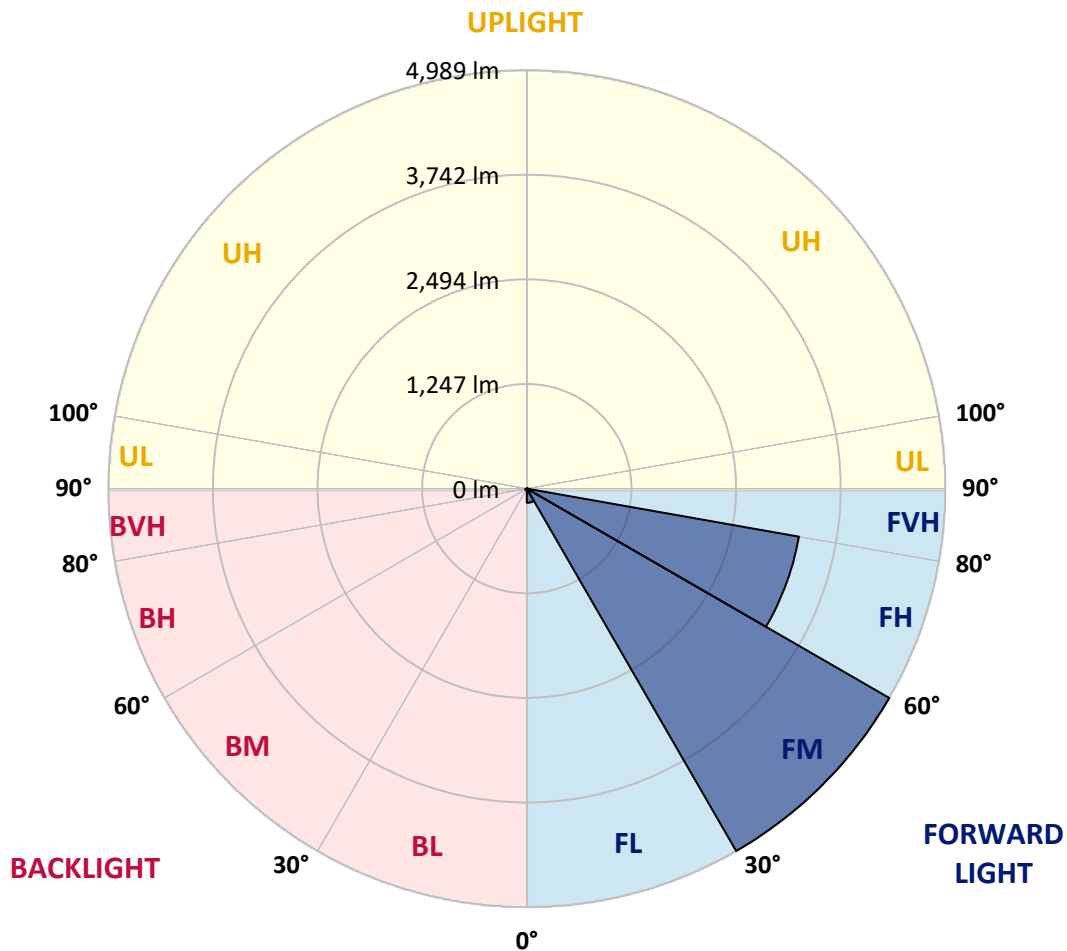
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	169.1	2.0			
FM	(30°-60°)	4988.9	58.6			
FH	(60°-80°)	3293.8	38.7			G2/5000
FVH	(80°-90°)	18.2	0.2			G1/100
BL	(0°-30°)	4.6	0.1	B0/110		
BM	(30°-60°)	16.8	0.2	B0/220		
BH	(60°-80°)	18.8	0.2	B0/110		G0/110
BVH	(80°-90°)	0.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
2.5°	37.4	37.4	34.7	32.0	29.4	26.7	26.7	26.7	24.0	24.0	21.3
5°	42.7	42.7	40.0	37.4	37.4	34.7	34.7	32.0	29.4	29.4	26.7
7.5°	45.4	45.4	45.4	45.4	42.7	42.7	42.7	40.0	37.4	34.7	32.0
10°	48.0	50.7	53.4	53.4	53.4	53.4	53.4	50.7	45.4	42.7	37.4
12.5°	53.4	56.0	61.4	66.7	66.7	69.4	66.7	64.0	58.7	50.7	42.7
15°	58.7	64.0	72.0	82.7	93.4	96.1	96.1	88.1	77.4	61.4	50.7
17.5°	66.7	74.7	96.1	130.8	168.1	197.5	197.5	176.1	122.8	80.1	58.7
20°	72.0	88.1	154.8	314.9	480.3	603.1	579.1	512.4	274.9	125.4	64.0
22.5°	80.1	112.1	328.2	827.2	1280.9	1505.0	1451.7	1102.1	616.4	224.2	77.4
25°	90.7	162.8	651.1	1550.4	2380.3	2623.1	2588.4	2057.4	1123.4	376.3	98.7
27.5°	112.1	240.2	1043.4	2350.9	3511.7	3719.9	3706.5	3012.7	1795.9	605.7	128.1
30°	141.4	349.6	1547.7	3194.2	4261.6	4472.4	4405.7	3711.9	2423.0	926.0	165.4
32.5°	176.1	488.3	2004.0	3815.9	4952.7	5230.2	5150.2	4320.3	2927.3	1198.2	245.5
35°	229.5	624.4	2455.0	4365.7	5750.6	6102.8	5969.4	4947.4	3362.3	1505.0	296.2
37.5°	256.2	704.5	2868.6	4963.4	6647.2	7127.5	7026.1	5739.9	3805.3	1897.3	362.9
40°	258.8	800.5	3298.3	5742.6	7914.8	8771.3	8589.9	7100.9	4629.8	2401.6	467.0
42.5°	266.8	944.6	3856.0	7071.5	10404.5	11634.6	11429.2	9603.9	6500.5	3413.0	661.8
45°	304.2	1216.8	4992.8	9555.9	13822.8	15626.7	15389.2	13091.6	9112.9	5315.6	1128.8
47.5°	435.0	1830.6	6986.1	12237.7	17318.5	18756.9	18698.1	15840.2	11479.9	7266.3	1913.3
50°	699.1	2809.9	9254.3	14492.6	19544.1	20779.6	20632.8	16987.6	12830.1	8597.9	2452.3
52.5°	934.0	3746.6	10679.3	15322.5	20208.5	21681.5	21502.7	17406.6	13185.0	8990.2	2601.8
55°	992.7	4085.5	11103.6	15578.7	20648.8	22444.7	22185.9	17686.8	13230.4	8710.0	2353.6
57.5°	963.3	3765.2	10828.8	15829.5	21262.6	23229.2	22885.0	18233.8	13382.5	8235.0	1958.7
59°	912.6	3370.3	10658.0	16029.6	21601.5	23352.0	23029.1	18353.9	13483.9	8018.8	1718.5
60°	853.9	3103.5	10524.5	16160.4	21580.1	23159.9	22826.3	18297.9	13523.9	7832.0	1603.8
62.5°	659.1	2476.4	10332.4	16067.0	20232.5	21406.7	21217.2	16926.3	12936.9	7234.3	1264.9
65°	512.4	1894.6	9627.9	14329.8	17217.1	18007.0	17948.3	14332.5	10887.5	6236.3	912.6
67.5°	405.6	1382.3	8141.6	11605.3	13852.2	14975.6	14932.9	11634.6	8264.3	4765.9	656.4
70°	330.9	984.7	5582.5	8750.0	11079.6	12493.9	12432.5	9363.7	6124.2	3023.4	477.7
72.5°	280.2	629.8	3386.3	6596.5	9246.3	10054.9	9876.1	7554.5	4453.7	1646.5	378.9
75°	237.5	386.9	1678.5	4112.2	5507.8	5502.4	5323.6	4000.1	2391.0	805.9	301.5
77.5°	192.1	272.2	659.1	1128.8	1737.2	2150.8	2116.1	1417.0	715.2	234.8	186.8
80°	125.4	128.1	176.1	309.5	477.7	528.4	600.4	432.3	208.1	112.1	77.4
82.5°	56.0	61.4	80.1	101.4	101.4	93.4	82.7	61.4	45.4	37.4	18.7
85°	13.3	18.7	13.3	16.0	13.3	10.7	10.7	5.3	0.0	0.0	0.0
87.5°	2.7	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°	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
2.5°	21.3	21.3	21.3	18.7	18.7	18.7	16.0	16.0	16.0	13.3	13.3
5°	26.7	24.0	21.3	21.3	18.7	18.7	16.0	13.3	13.3	13.3	10.7
7.5°	29.4	26.7	24.0	21.3	18.7	16.0	16.0	13.3	10.7	10.7	10.7
10°	34.7	32.0	26.7	21.3	18.7	16.0	13.3	13.3	10.7	8.0	8.0
12.5°	40.0	34.7	29.4	24.0	18.7	16.0	13.3	13.3	10.7	8.0	5.3
15°	45.4	40.0	32.0	24.0	18.7	16.0	13.3	13.3	8.0	5.3	2.7
17.5°	50.7	42.7	32.0	26.7	18.7	16.0	13.3	10.7	5.3	2.7	0.0
20°	53.4	45.4	34.7	26.7	18.7	16.0	13.3	8.0	2.7	0.0	0.0
22.5°	58.7	50.7	37.4	26.7	18.7	13.3	8.0	2.7	0.0	0.0	0.0
25°	69.4	53.4	37.4	26.7	18.7	13.3	5.3	0.0	0.0	0.0	0.0
27.5°	77.4	58.7	37.4	26.7	18.7	10.7	2.7	0.0	0.0	0.0	0.0
30°	90.7	64.0	40.0	26.7	18.7	8.0	2.7	0.0	0.0	0.0	0.0
32.5°	112.1	69.4	40.0	26.7	16.0	8.0	0.0	0.0	0.0	0.0	0.0
35°	136.1	80.1	40.0	26.7	16.0	8.0	0.0	0.0	0.0	0.0	0.0
37.5°	138.8	85.4	40.0	26.7	16.0	5.3	0.0	0.0	0.0	0.0	0.0
40°	144.1	80.1	42.7	26.7	16.0	5.3	0.0	0.0	0.0	0.0	0.0
42.5°	165.4	74.7	45.4	26.7	16.0	5.3	0.0	0.0	0.0	0.0	0.0
45°	245.5	77.4	45.4	29.4	16.0	8.0	0.0	0.0	0.0	0.0	0.0
47.5°	427.0	80.1	42.7	29.4	16.0	8.0	0.0	0.0	0.0	0.0	0.0
50°	547.0	93.4	42.7	32.0	18.7	5.3	0.0	0.0	0.0	0.0	0.0
52.5°	581.7	109.4	42.7	34.7	24.0	2.7	0.0	0.0	0.0	0.0	0.0
55°	565.7	128.1	45.4	37.4	29.4	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	523.0	138.8	48.0	40.0	32.0	0.0	0.0	0.0	0.0	0.0	0.0
59°	477.7	146.8	56.0	42.7	32.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	440.3	154.8	58.7	45.4	32.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	354.9	165.4	64.0	53.4	26.7	0.0	0.0	0.0	0.0	0.0	0.0
65°	309.5	173.5	66.7	58.7	24.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	282.9	178.8	72.0	61.4	21.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	261.5	176.1	77.4	58.7	18.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	237.5	168.1	93.4	53.4	16.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	213.5	152.1	101.4	48.0	10.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	154.8	128.1	93.4	42.7	5.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	66.7	69.4	66.7	32.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.3	16.0	13.3	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
2.5°	13.3	13.3	13.3	13.3	16.0	16.0	21.3	26.7	32.0	34.7	34.7
5°	10.7	10.7	10.7	10.7	10.7	13.3	16.0	21.3	29.4	32.0	32.0
7.5°	8.0	8.0	8.0	8.0	8.0	8.0	13.3	18.7	26.7	29.4	32.0
10°	8.0	5.3	5.3	2.7	2.7	5.3	8.0	16.0	24.0	26.7	29.4
12.5°	5.3	2.7	2.7	0.0	0.0	2.7	5.3	13.3	21.3	24.0	26.7
15°	2.7	0.0	0.0	0.0	0.0	0.0	2.7	10.7	18.7	21.3	26.7
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	16.0	21.3	24.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	13.3	18.7	21.3
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	10.7	16.0	18.7
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	10.7	13.3
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	8.0	10.7
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	8.0	10.7
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.3	8.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.3	8.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.3	5.3
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.3
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.3
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.3
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.3
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.3
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7
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°	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
2.5°	37.4	37.4	34.7	32.0	32.0	32.0	34.7	37.4	37.4	37.4
5°	34.7	34.7	32.0	32.0	32.0	32.0	34.7	40.0	42.7	42.7
7.5°	34.7	34.7	32.0	32.0	32.0	32.0	34.7	40.0	42.7	45.4
10°	32.0	32.0	32.0	32.0	29.4	32.0	34.7	40.0	48.0	48.0
12.5°	32.0	32.0	32.0	32.0	29.4	32.0	37.4	42.7	50.7	53.4
15°	32.0	32.0	32.0	29.4	29.4	32.0	37.4	45.4	53.4	58.7
17.5°	29.4	32.0	32.0	29.4	29.4	32.0	37.4	45.4	58.7	66.7
20°	26.7	29.4	32.0	29.4	29.4	29.4	37.4	45.4	61.4	72.0
22.5°	24.0	26.7	29.4	29.4	26.7	29.4	37.4	48.0	66.7	80.1
25°	21.3	24.0	24.0	26.7	26.7	29.4	37.4	48.0	69.4	90.7
27.5°	16.0	18.7	21.3	24.0	24.0	29.4	37.4	50.7	74.7	112.1
30°	13.3	16.0	18.7	21.3	24.0	29.4	37.4	50.7	80.1	141.4
32.5°	13.3	16.0	18.7	21.3	24.0	26.7	37.4	53.4	88.1	176.1
35°	10.7	13.3	16.0	21.3	21.3	26.7	37.4	53.4	96.1	229.5
37.5°	10.7	13.3	16.0	21.3	21.3	26.7	37.4	53.4	117.4	256.2
40°	8.0	10.7	13.3	21.3	21.3	26.7	40.0	56.0	120.1	258.8
42.5°	8.0	10.7	13.3	18.7	21.3	26.7	40.0	56.0	112.1	266.8
45°	8.0	10.7	13.3	21.3	24.0	29.4	40.0	58.7	109.4	304.2
47.5°	8.0	10.7	13.3	21.3	26.7	29.4	40.0	58.7	112.1	435.0
50°	8.0	10.7	13.3	21.3	29.4	29.4	40.0	58.7	122.8	699.1
52.5°	5.3	8.0	10.7	18.7	24.0	32.0	42.7	56.0	130.8	934.0
55°	5.3	5.3	8.0	16.0	21.3	34.7	45.4	56.0	152.1	992.7
57.5°	5.3	5.3	8.0	13.3	18.7	37.4	48.0	56.0	176.1	963.3
59°	5.3	5.3	5.3	13.3	16.0	37.4	48.0	58.7	178.8	912.6
60°	5.3	5.3	5.3	10.7	16.0	37.4	50.7	61.4	181.5	853.9
62.5°	2.7	2.7	2.7	10.7	13.3	37.4	56.0	74.7	186.8	659.1
65°	5.3	5.3	2.7	8.0	13.3	32.0	64.0	80.1	189.5	512.4
67.5°	5.3	5.3	5.3	10.7	13.3	32.0	66.7	82.7	189.5	405.6
70°	5.3	5.3	5.3	10.7	16.0	32.0	66.7	85.4	186.8	330.9
72.5°	5.3	5.3	5.3	10.7	16.0	29.4	61.4	88.1	178.8	280.2
75°	5.3	5.3	5.3	8.0	13.3	26.7	58.7	96.1	162.8	237.5
77.5°	5.3	5.3	5.3	5.3	10.7	21.3	53.4	106.7	144.1	192.1
80°	8.0	5.3	5.3	5.3	8.0	18.7	50.7	104.1	120.1	125.4
82.5°	8.0	5.3	5.3	2.7	5.3	13.3	40.0	80.1	61.4	56.0
85°	5.3	5.3	5.3	2.7	2.7	8.0	18.7	24.0	18.7	13.3
87.5°	5.3	5.3	5.3	2.7	2.7	2.7	2.7	2.7	2.7	2.7
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: SP1-2407-184-2

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-722-U-5WQ

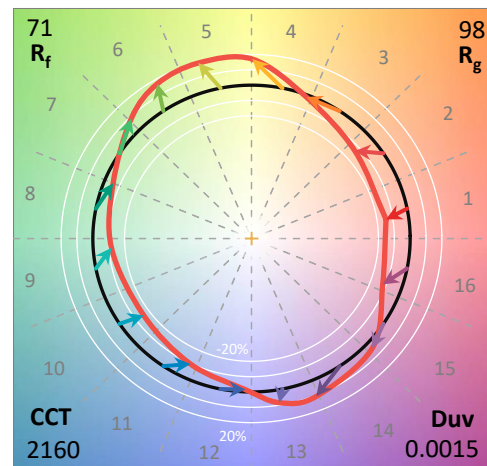
Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-2
 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-722-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2200K CCT 26 LEDS

Spectral Parameters

CCT (K):	2160	CRI (Ra):	71.9		
CIE u':	0.2927	R1:	68.7	R9:	-17.8
CIE v':	0.5388	R2:	82.6	R10:	60.5
Duv:	0.0015	R3:	95.5	R11:	60.2
CIE x:	0.5130	R4:	66.4	R12:	48.2
CIE y:	0.4197	R5:	65.4	R13:	70.7
CIE z:	0.0674	R6:	75.9	R14:	96.8
Peak Wavelength (nm):	609	R7:	77.2	R15:	61.8
Dominant Wavelength (nm):	587	R8:	43.5		
Purity:	79.96089				
Rf:	70.6				
Rg:	97.6				



Test Conditions

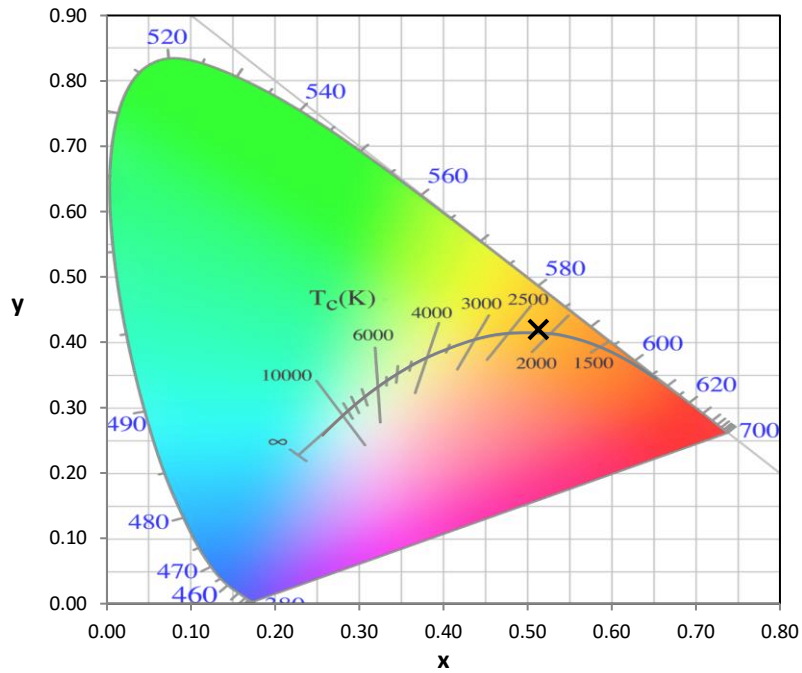
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-2

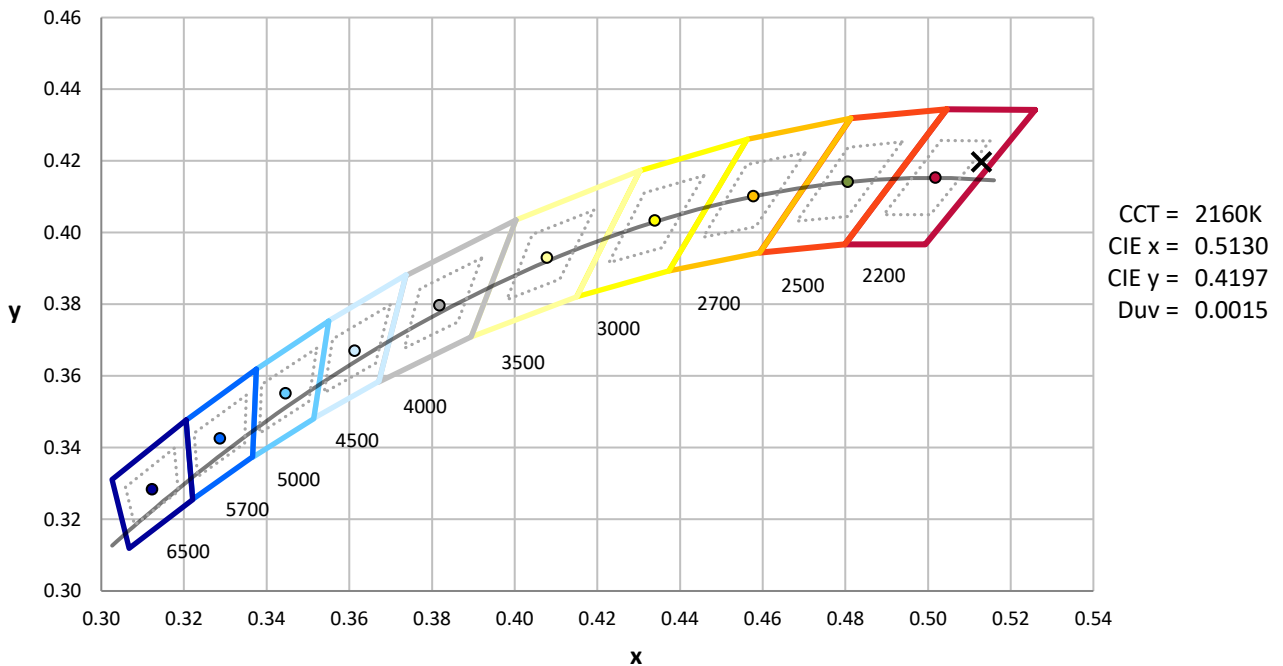
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



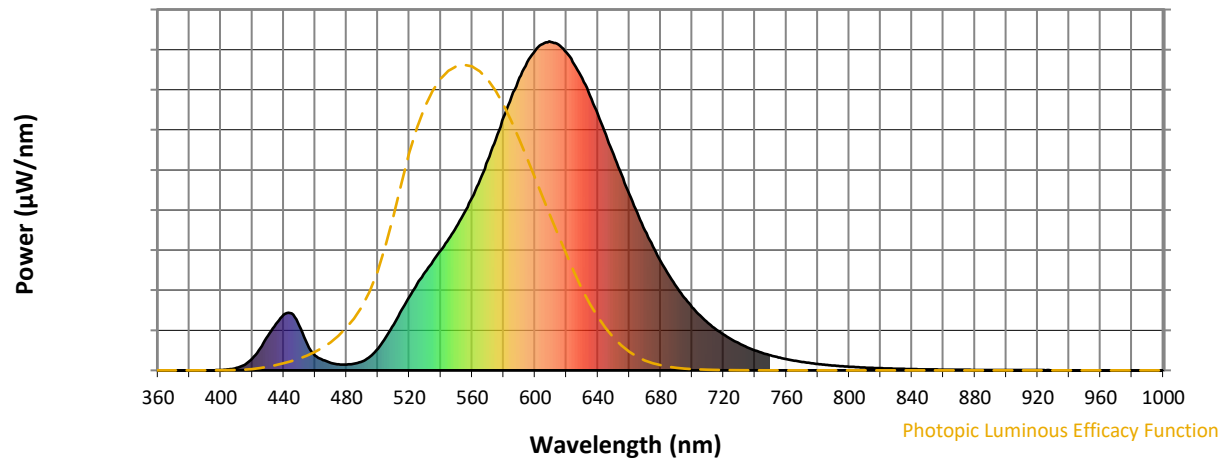
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-2

Photopic Flux vs. Wavelength

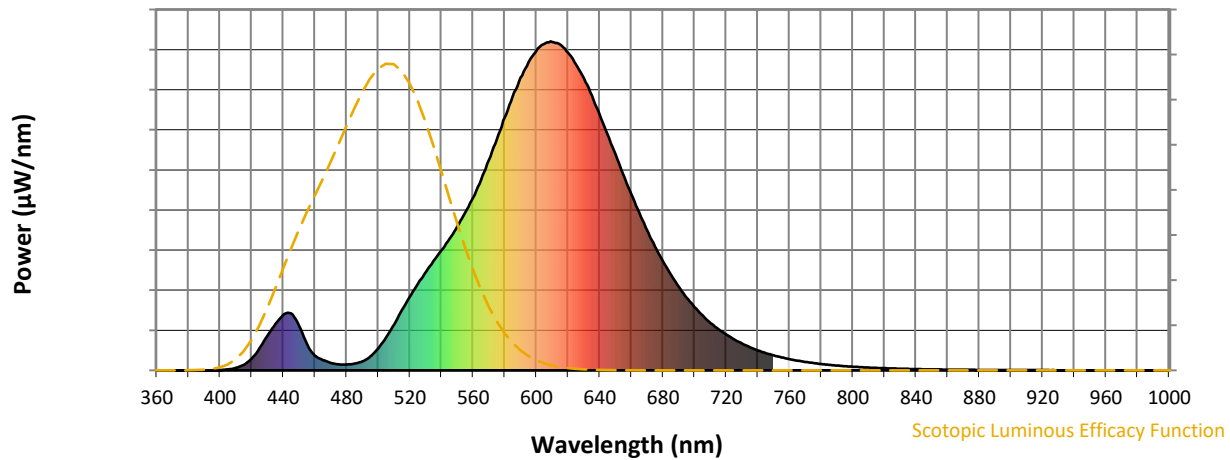


Photopic Lumens: NR

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

Scotopic Flux vs. Wavelength



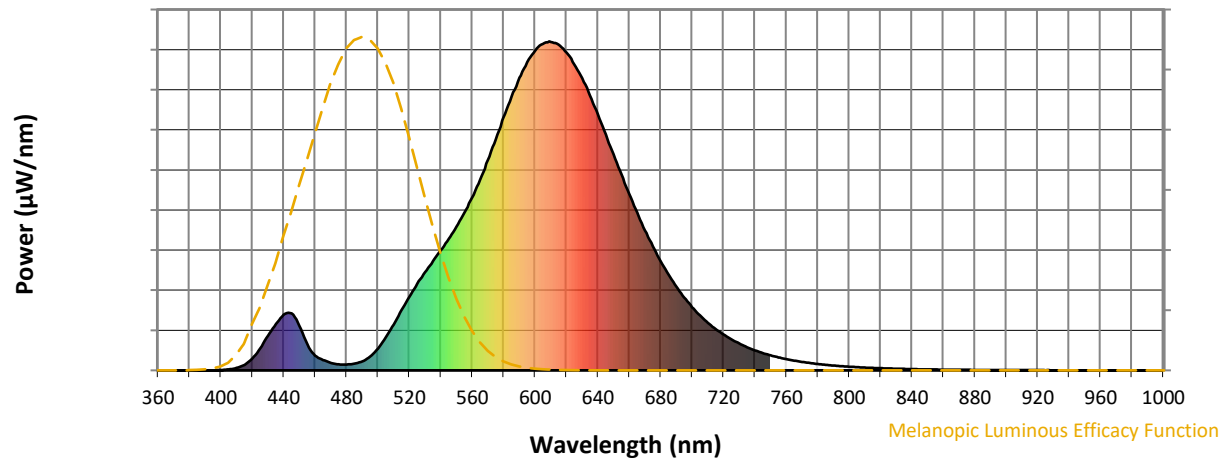
Scotopic Lumens: NR

S/P: 0.8

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 1.21

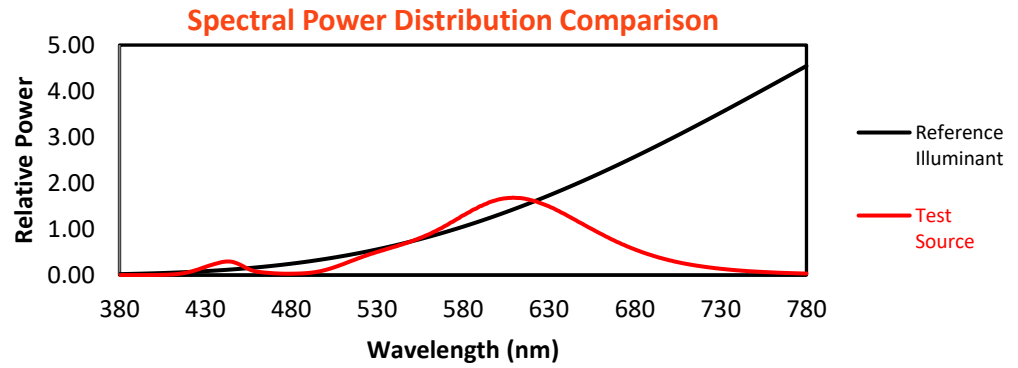
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

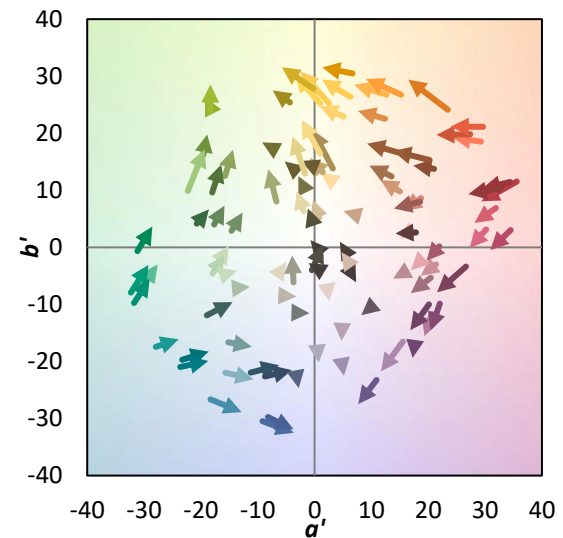
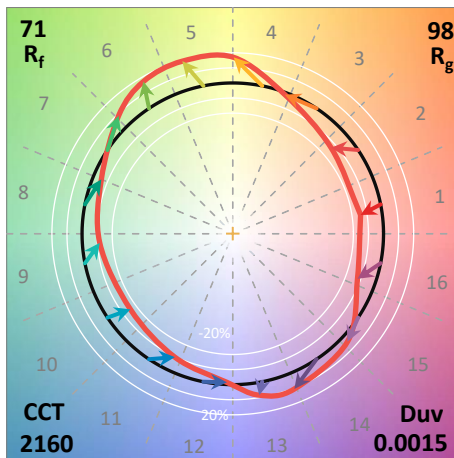
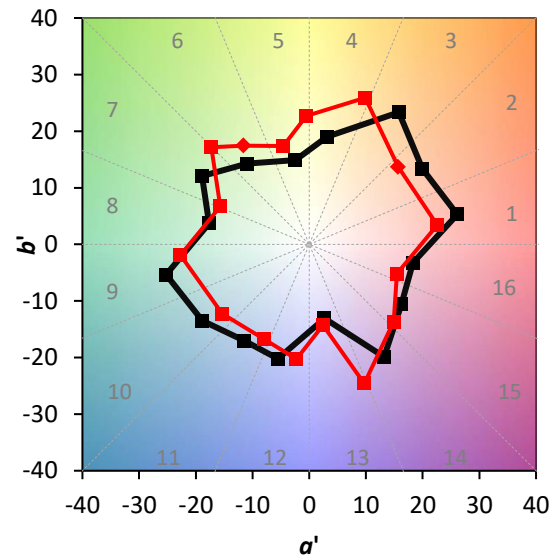
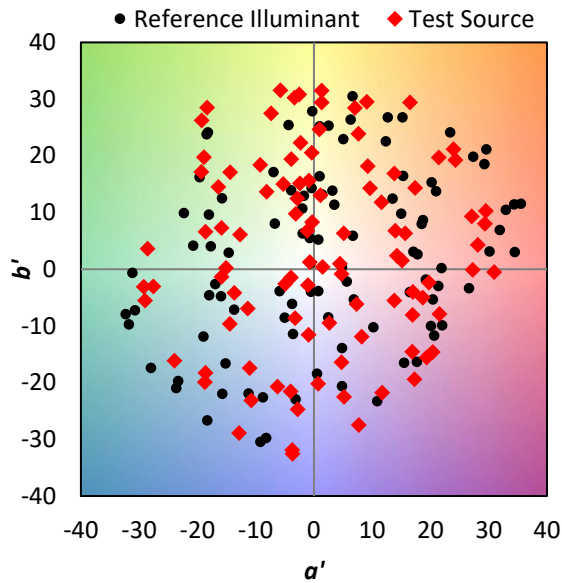
TM-30-18

Summary

$R_f = 70.6$
 $R_g = 97.6$
 $CIE\ R_a = 71.9$
 $R_g = -17.8$

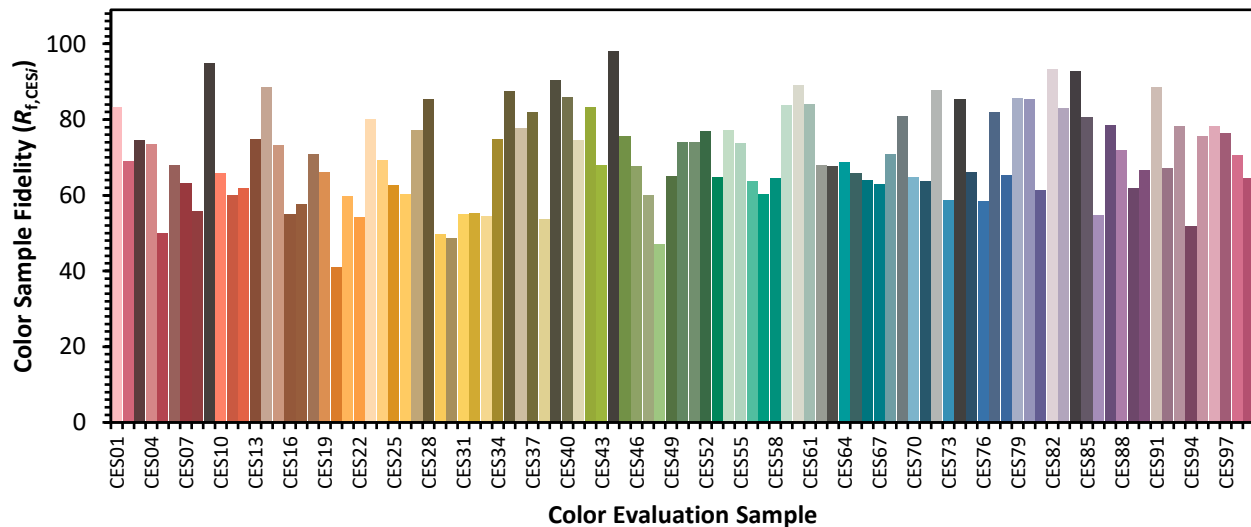


Color Vector Graphics

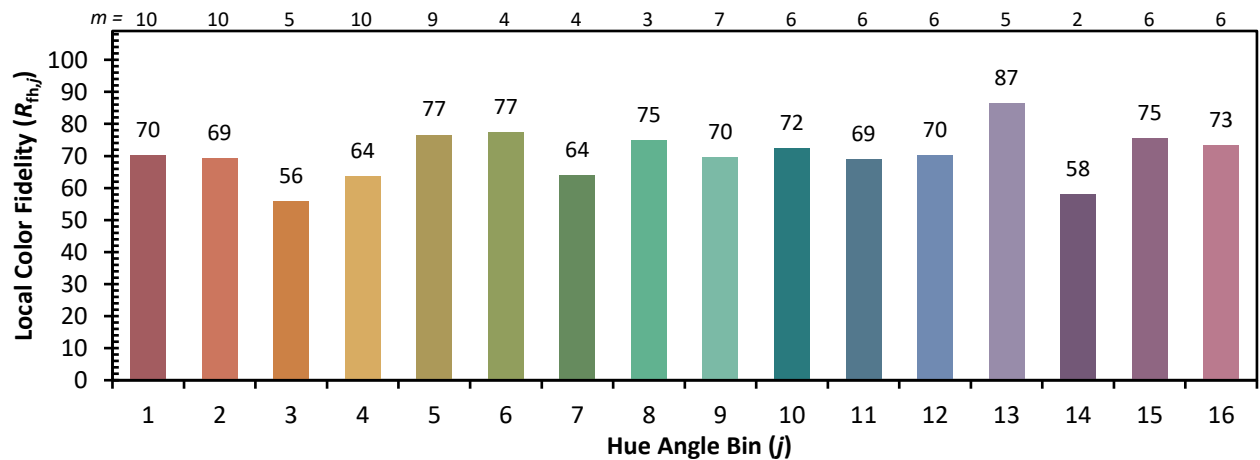
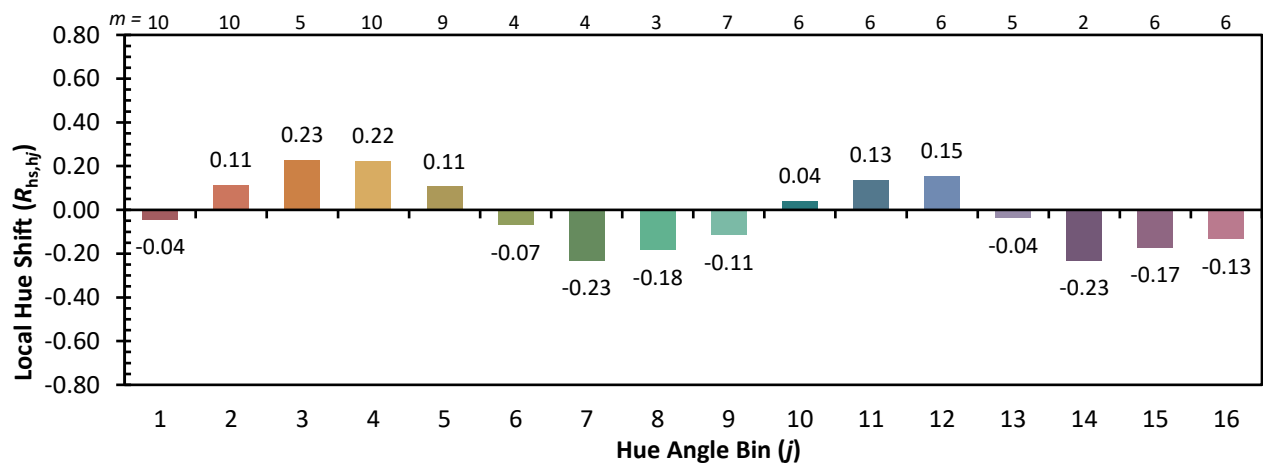
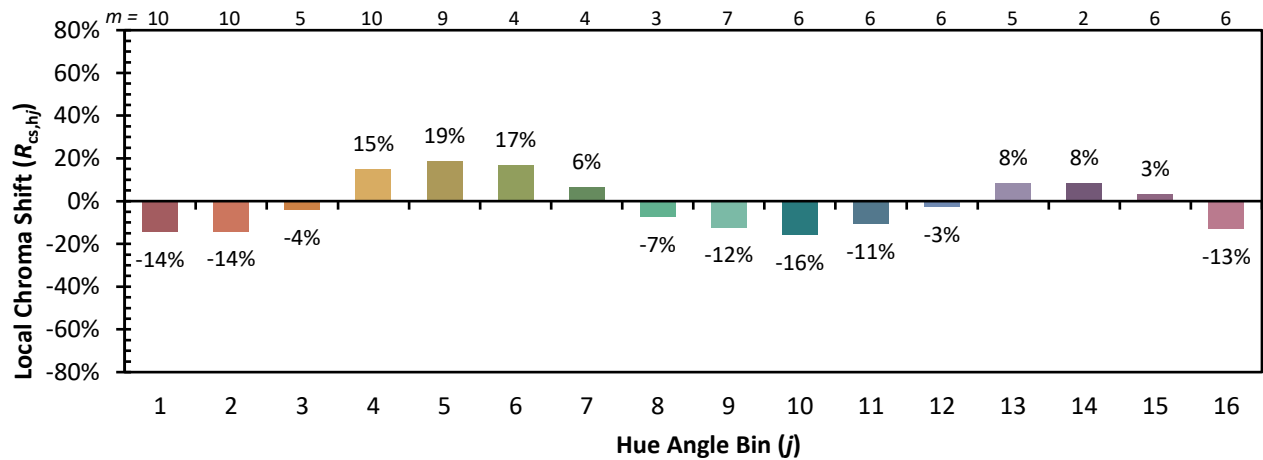


Individual Sample Fidelity Index ($R_{f,i}$)

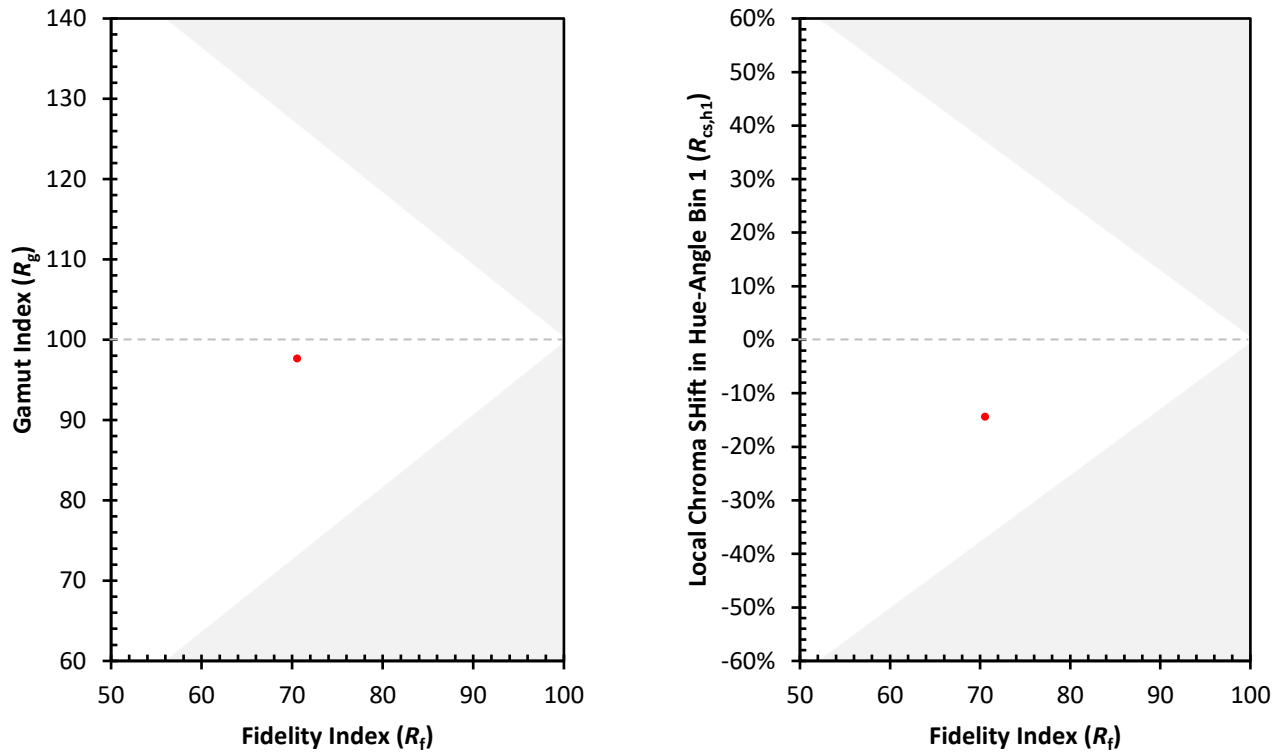
CES01 = 87	CES26 = 60	CES51 = 74	CES76 = 58
CES02 = 65	CES27 = 77	CES52 = 77	CES77 = 82
CES03 = 32	CES28 = 85	CES53 = 65	CES78 = 65
CES04 = 72	CES29 = 50	CES54 = 77	CES79 = 86
CES05 = 52	CES30 = 49	CES55 = 74	CES80 = 85
CES06 = 53	CES31 = 55	CES56 = 64	CES81 = 61
CES07 = 44	CES32 = 55	CES57 = 60	CES82 = 93
CES08 = 43	CES33 = 55	CES58 = 64	CES83 = 83
CES09 = 29	CES34 = 75	CES59 = 84	CES84 = 93
CES10 = 79	CES35 = 88	CES60 = 89	CES85 = 81
CES11 = 62	CES36 = 78	CES61 = 84	CES86 = 55
CES12 = 68	CES37 = 82	CES62 = 68	CES87 = 79
CES13 = 45	CES38 = 54	CES63 = 68	CES88 = 72
CES14 = 75	CES39 = 90	CES64 = 69	CES89 = 62
CES15 = 72	CES40 = 86	CES65 = 66	CES90 = 67
CES16 = 49	CES41 = 75	CES66 = 64	CES91 = 89
CES17 = 51	CES42 = 83	CES67 = 63	CES92 = 67
CES18 = 57	CES43 = 68	CES68 = 71	CES93 = 78
CES19 = 74	CES44 = 98	CES69 = 81	CES94 = 52
CES20 = 68	CES45 = 76	CES70 = 65	CES95 = 76
CES21 = 89	CES46 = 68	CES71 = 64	CES96 = 78
CES22 = 81	CES47 = 60	CES72 = 88	CES97 = 76
CES23 = 92	CES48 = 47	CES73 = 59	CES98 = 71
CES24 = 92	CES49 = 65	CES74 = 85	CES99 = 65
CES25 = 74	CES50 = 74	CES75 = 66	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)