

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: P1068046

Luminaire Tested: **NAV-SA3B-827-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1068046
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA3B-827-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 3xLight Square PACKAGE
80CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 2700K CCT, 80 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



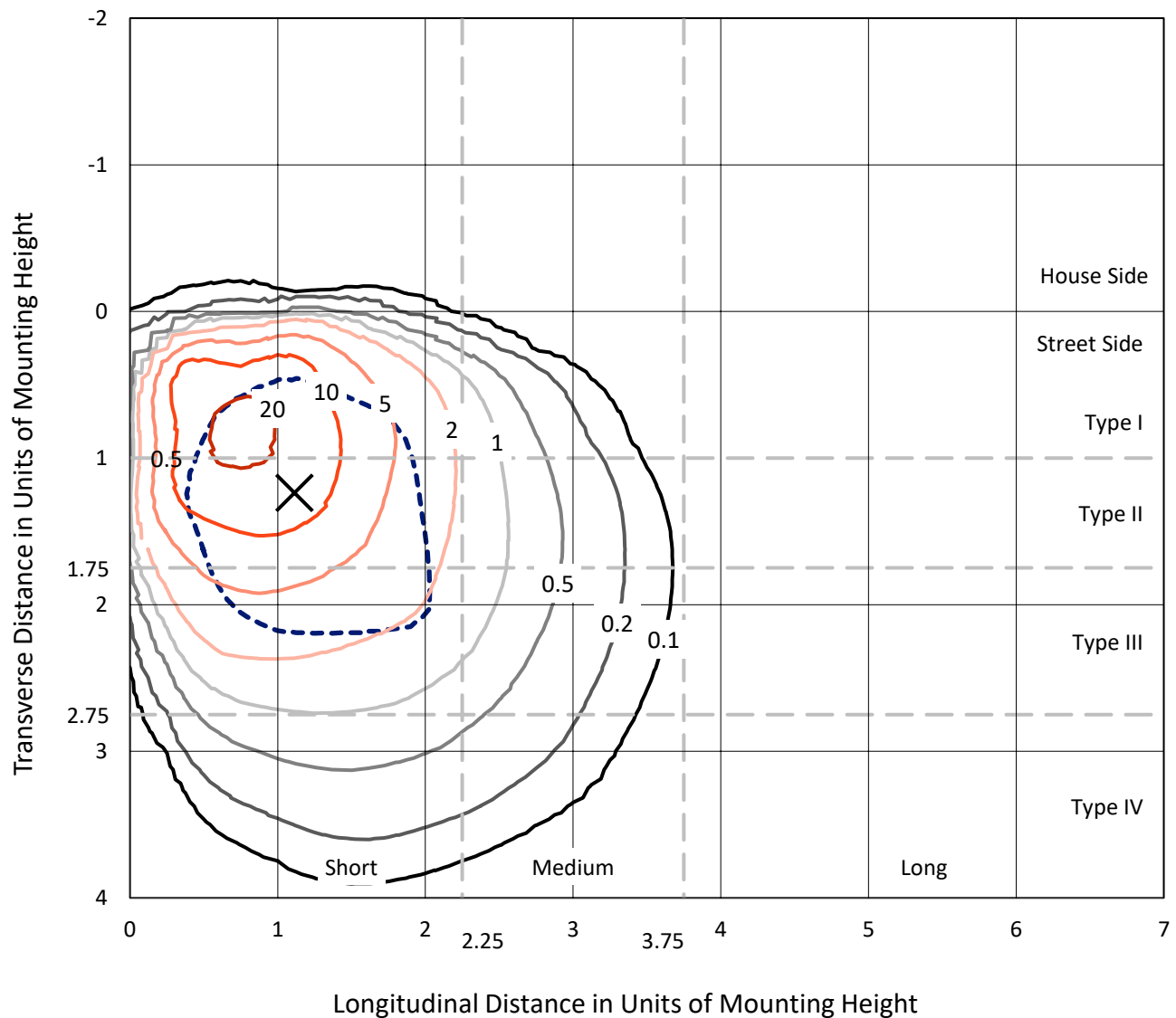
REPORT NUMBER: P1068046

CATALOG NUMBER: NAV-SA3B-827-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

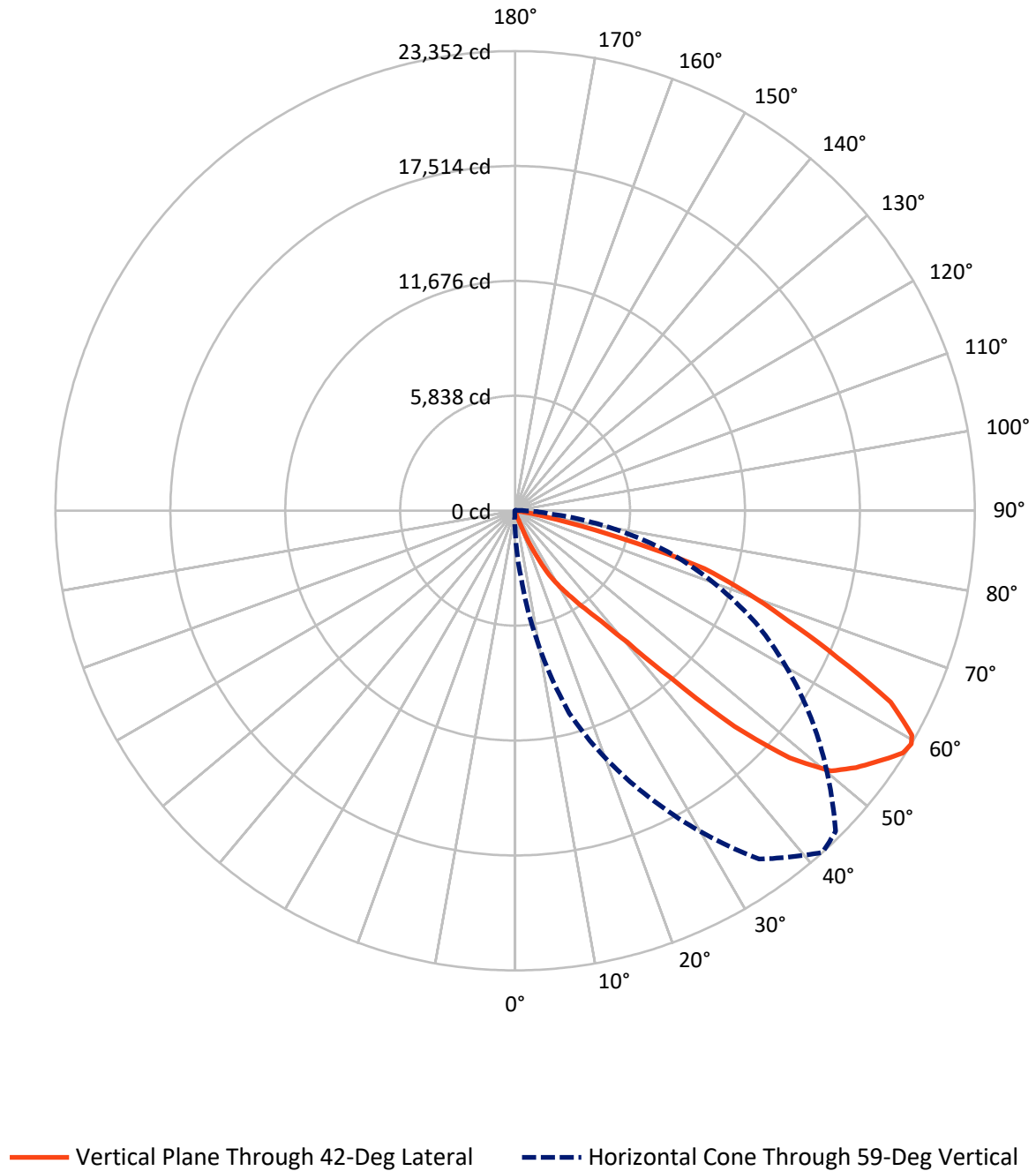


Based on 15 foot mounting height. Maximum calculated value = 25.3 fc
 Type III - Short - N/A

REPORT NUMBER: P1068046

CATALOG NUMBER: NAV-SA3B-827-U-LBC

Luminous Intensity Polar Plot



REPORT NUMBER: P1068046

CATALOG NUMBER: NAV-SA3B-827-U-LBC

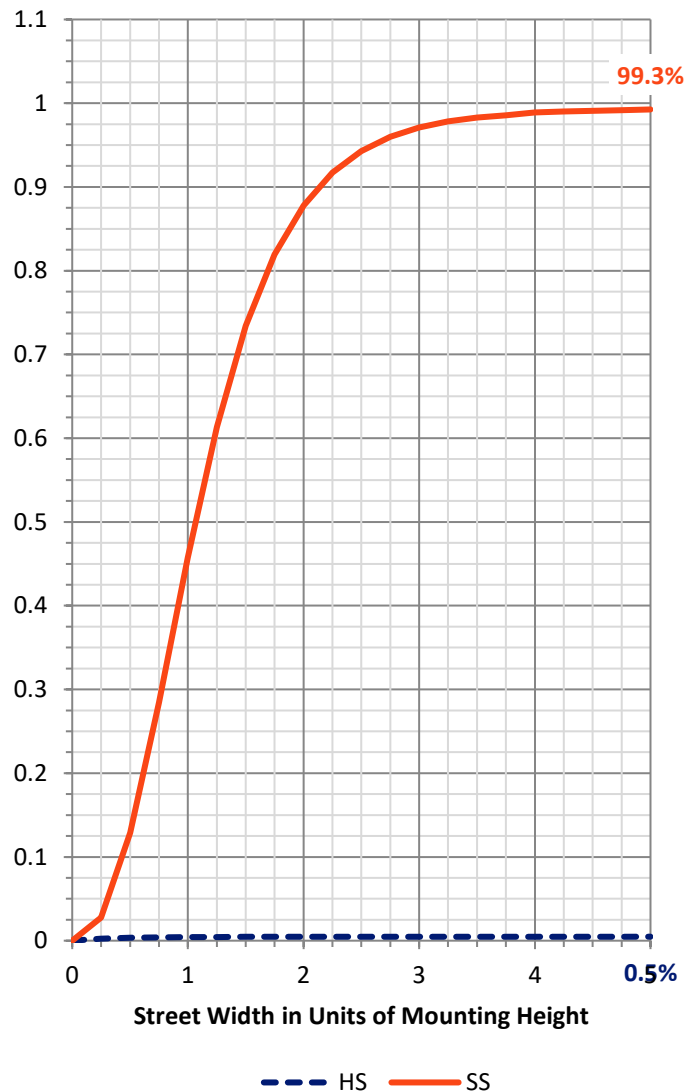
FLUX DISTRIBUTION:

		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



REPORT NUMBER: P1068046

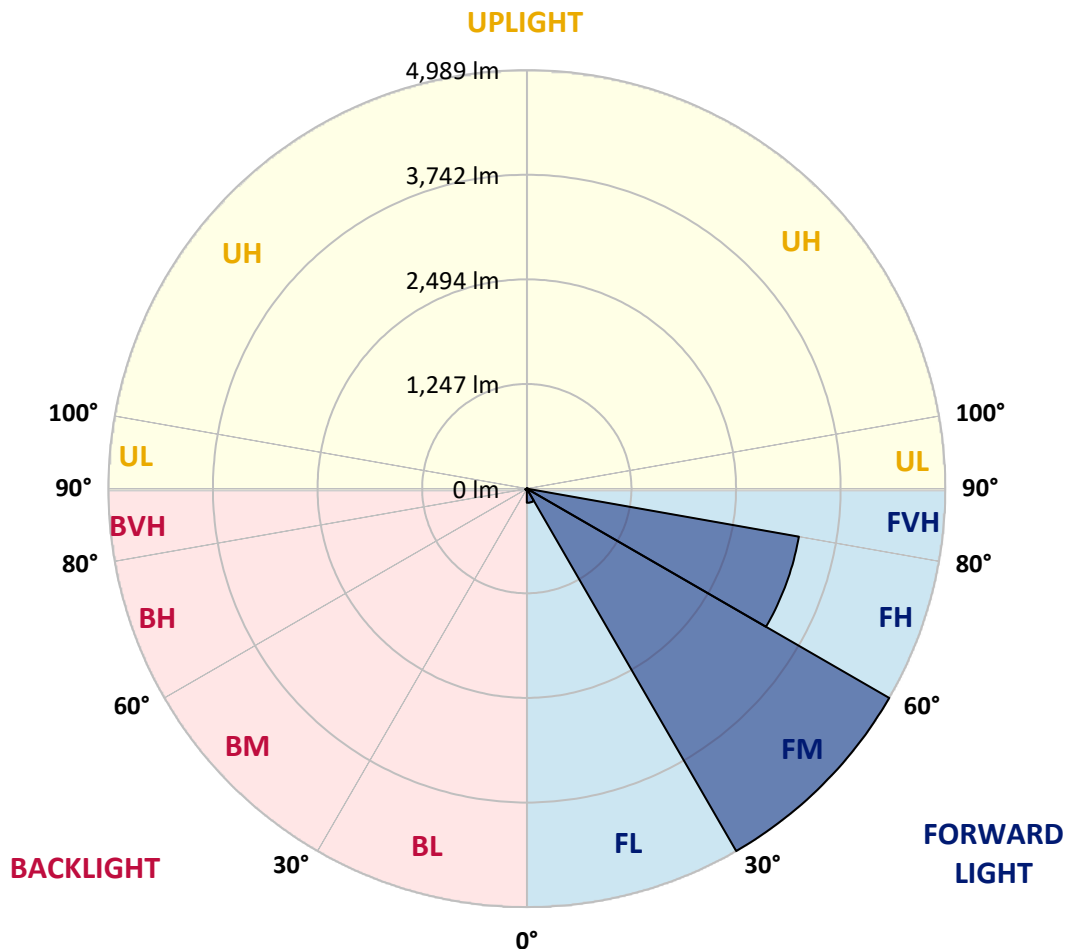
CATALOG NUMBER: NAV-SA3B-827-U-LBC

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



REPORT NUMBER: P1068046

CATALOG NUMBER: NAV-SA3B-827-U-LBC

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

REPORT NUMBER: P1068046

CATALOG NUMBER: NAV-SA3B-827-U-LBC

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



REPORT NUMBER: P1068046

CATALOG NUMBER: NAV-SA3B-827-U-LBC

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

REPORT NUMBER: P1068046

CATALOG NUMBER: NAV-SA3B-827-U-LBC

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: SP1-2407-184-8

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-827-U-5WQ

Data in this report applies to families of products including GSS-SB1A-827-U-5WQ

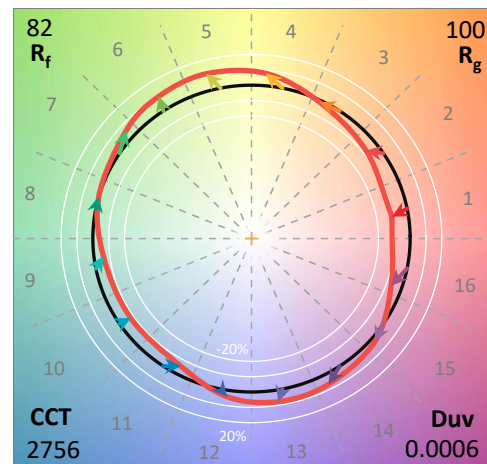
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-8
 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-827-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K): 2756
 CIE u' : 0.2599
 CIE v' : 0.5271
 Duv: 0.0006
 CIE x: 0.4563
 CIE y: 0.4112
 CIE z: 0.1325
 Peak Wavelength (nm): 609
 Dominant Wavelength (nm): 583
 Purity: 60.41121
 R_f: 82.2
 R_g: 99.9

CRI (Ra): 82.9
 R1: 81.6
 R2: 88.8
 R3: 96.0
 R4: 83.4
 R5: 81.4
 R6: 87.0
 R7: 84.0
 R8: 60.8
 R9: 10.8
 R10: 74.8
 R11: 84.3
 R12: 72.1
 R13: 82.9
 R14: 97.3
 R15: 73.7



Test Conditions

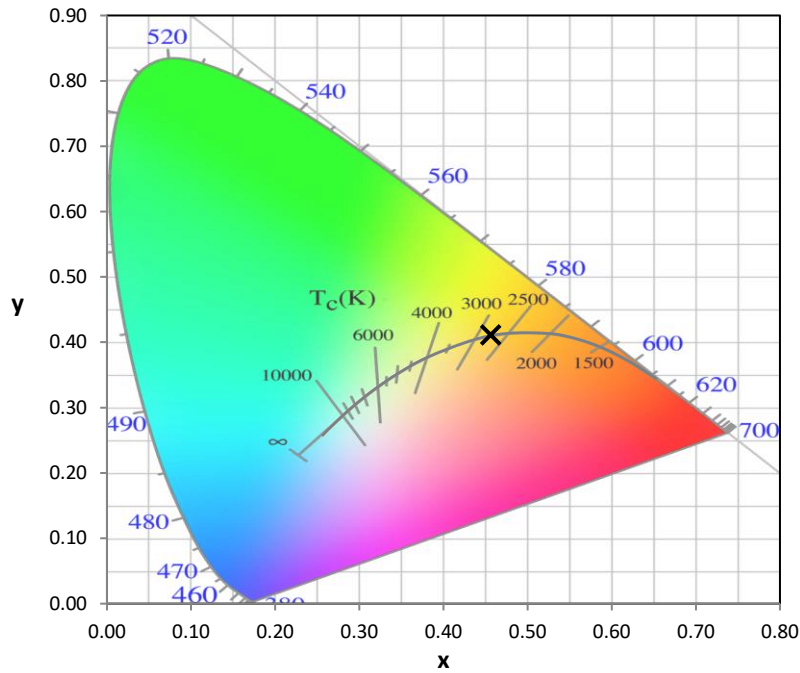
Stabilization Time: 29M
 Operation Time: 1H 29M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-8

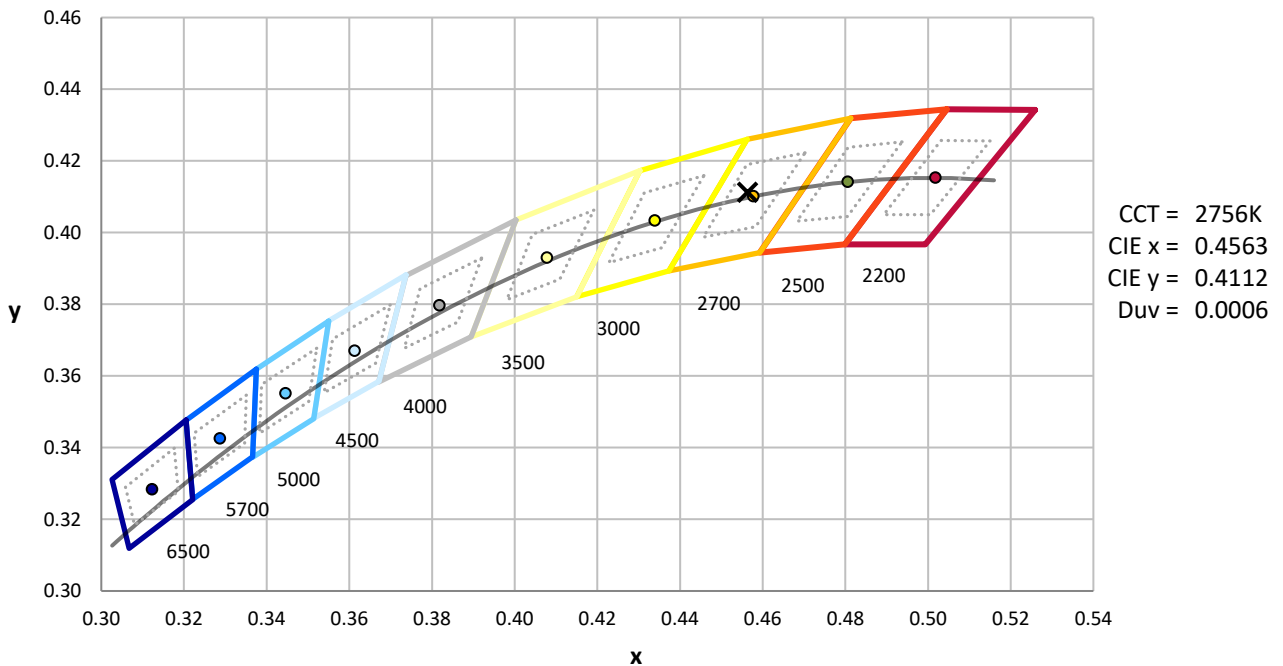
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-8

CIE 1931 Chromaticity Diagram



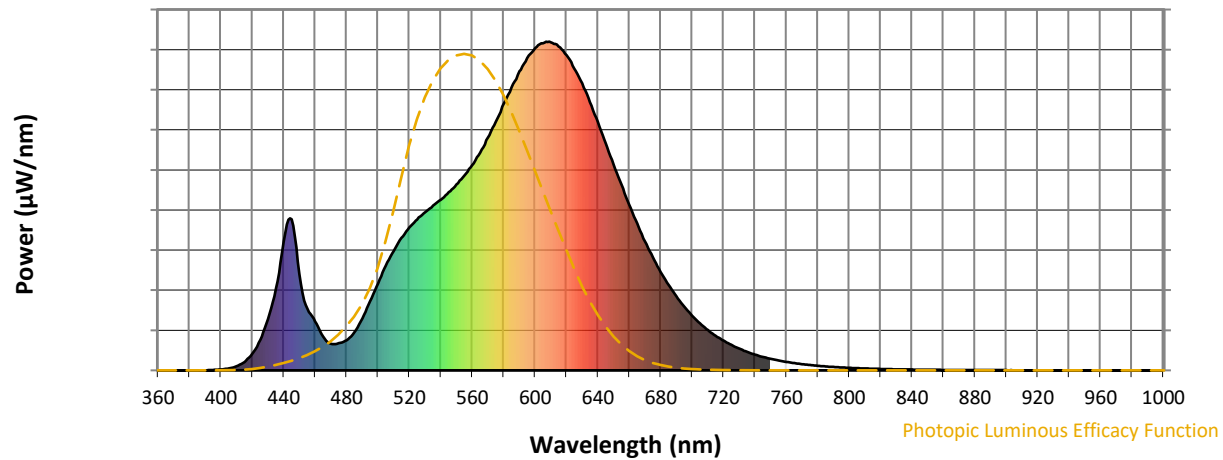
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-8

Photopic Flux vs. Wavelength

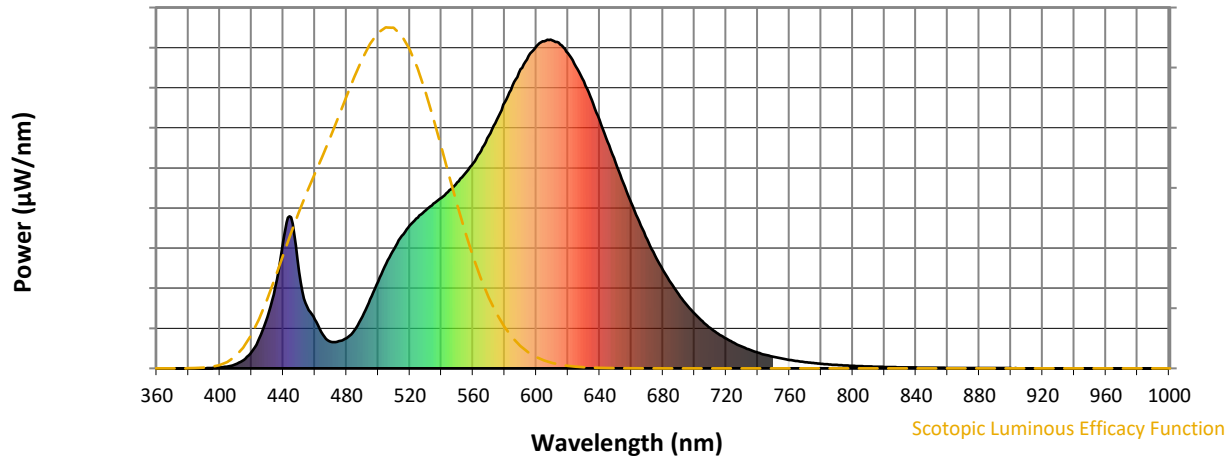


Photopic Lumens: NR

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

Scotopic Flux vs. Wavelength



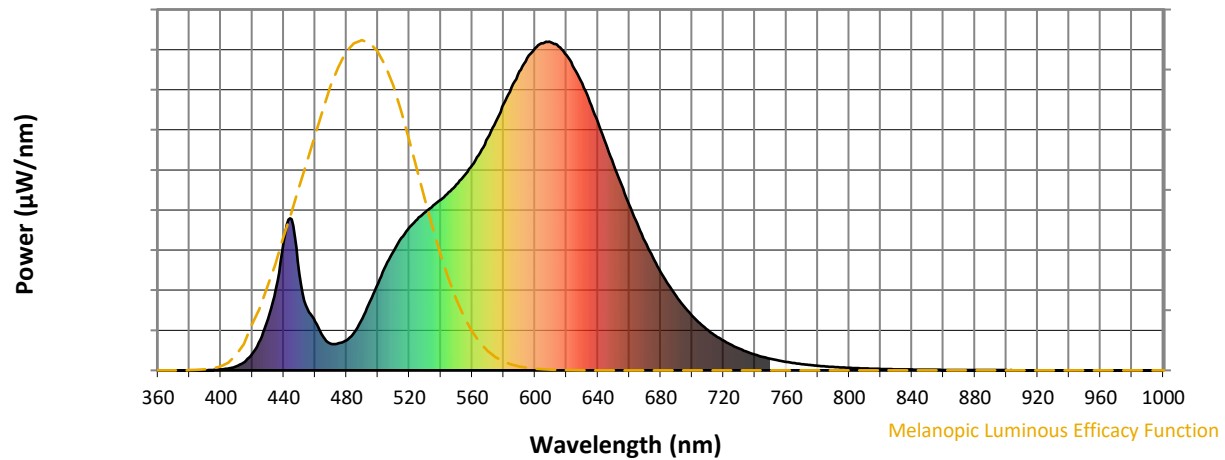
Scotopic Lumens: NR

S/P: 1.2

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.16

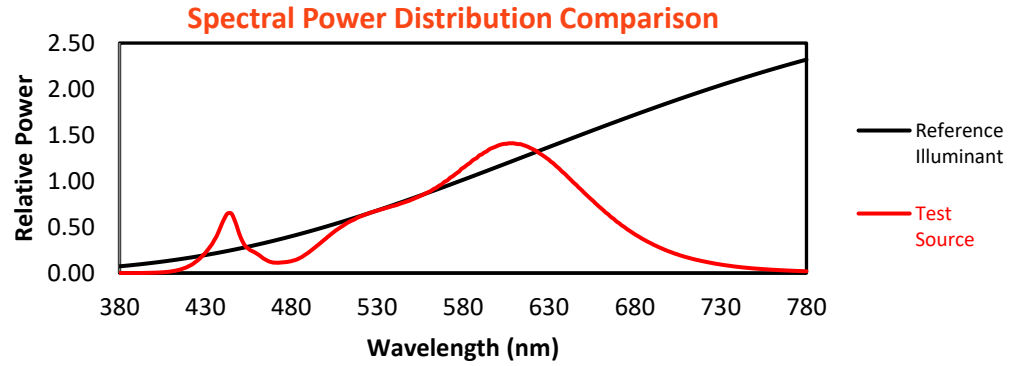
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

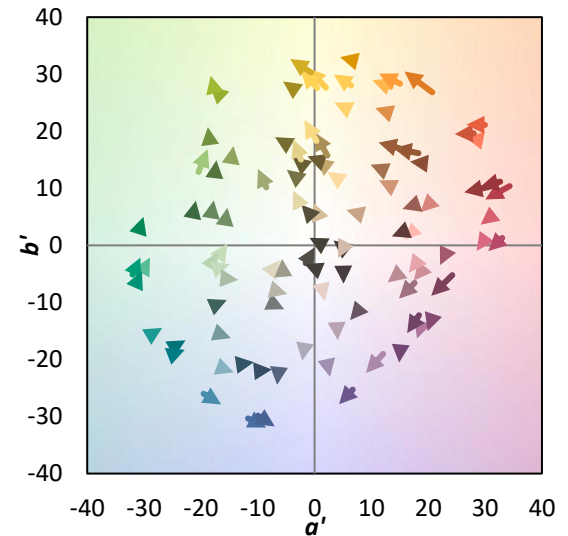
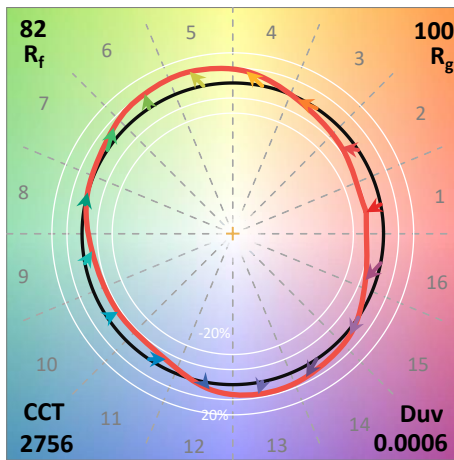
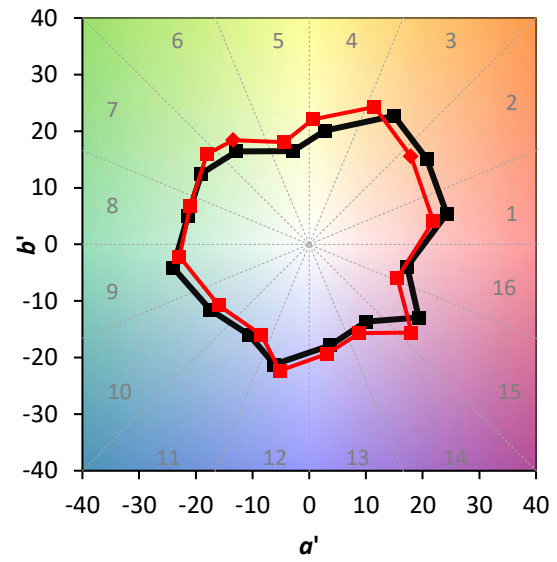
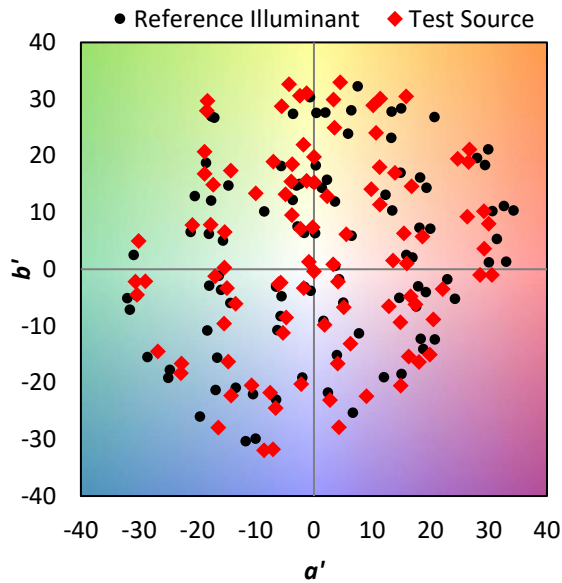
TM-30-18

Summary

$R_f = 82.2$
 $R_g = 99.9$
 $CIE R_a = 82.9$
 $R_9 = 10.8$

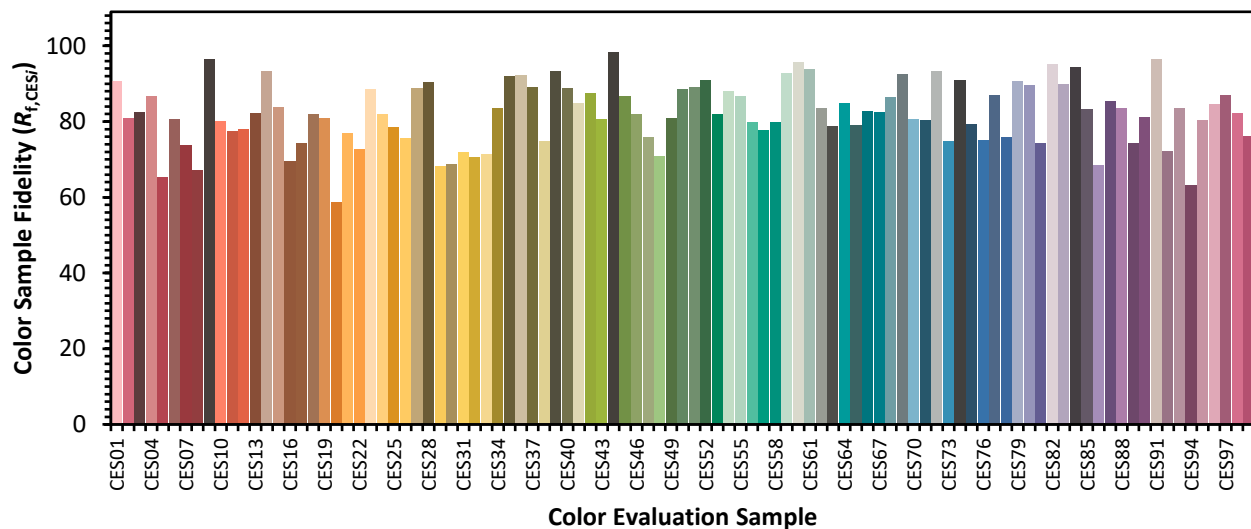


Color Vector Graphics

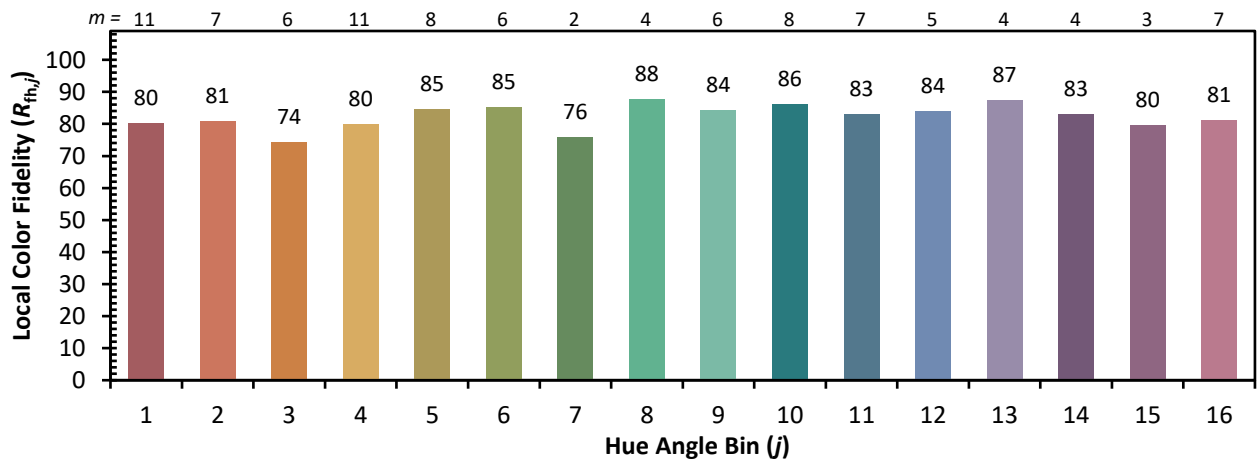
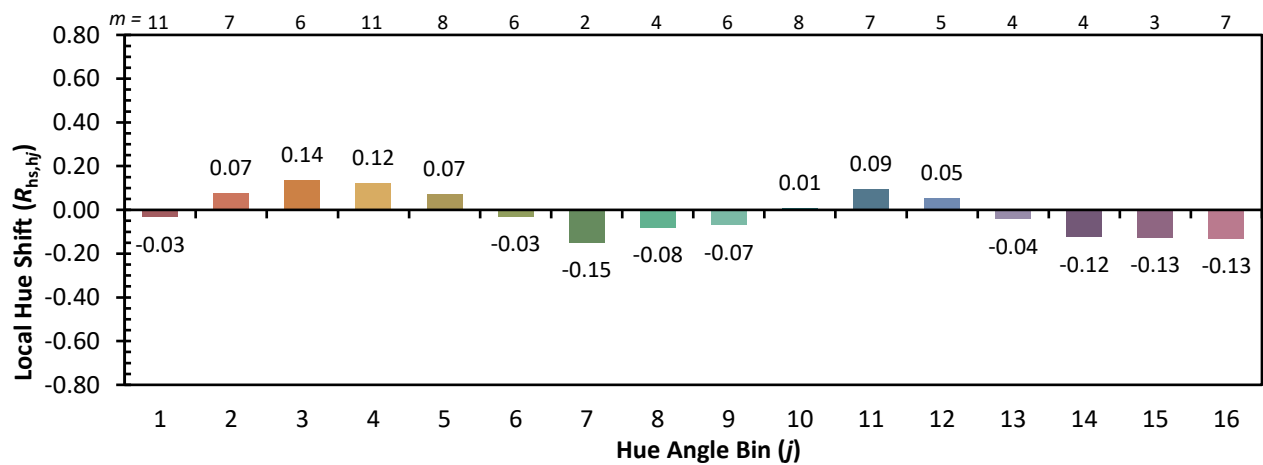
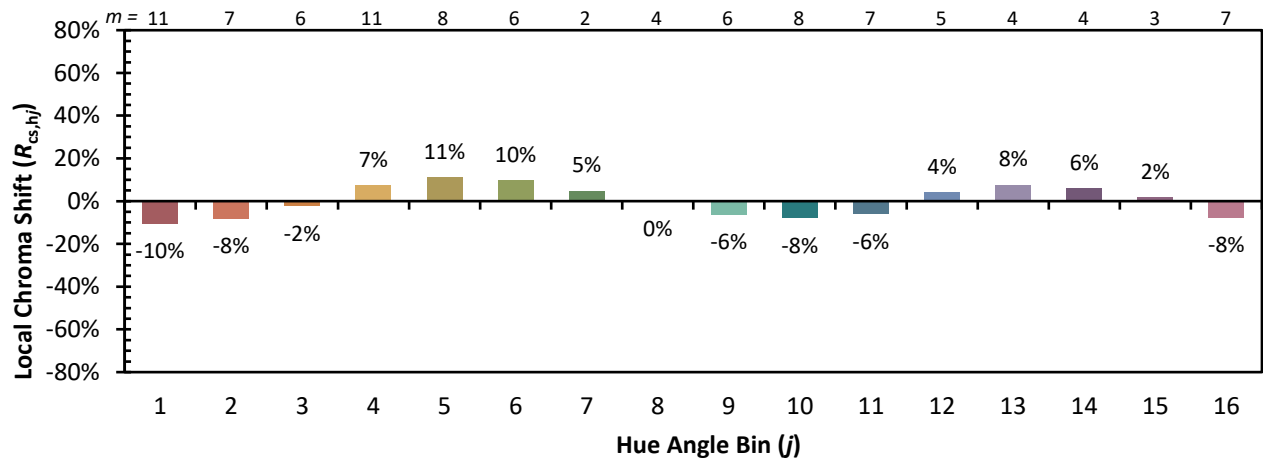


Individual Sample Fidelity Index ($R_{f,i}$)

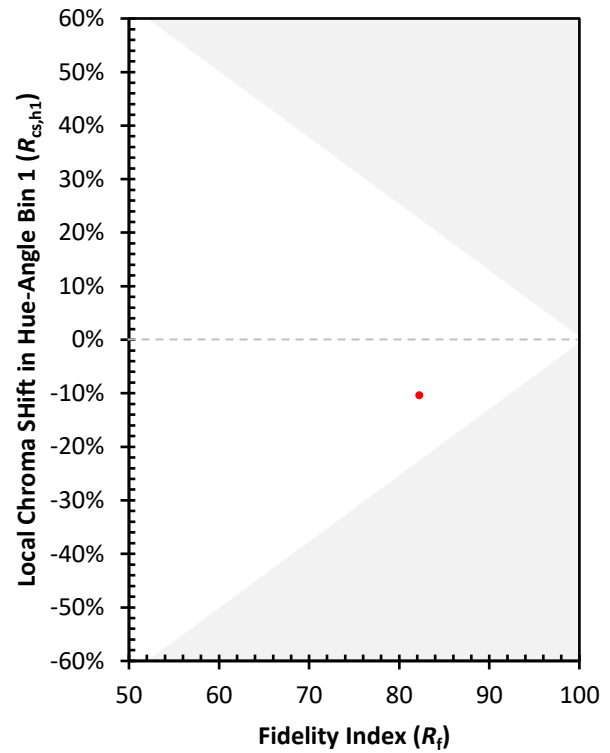
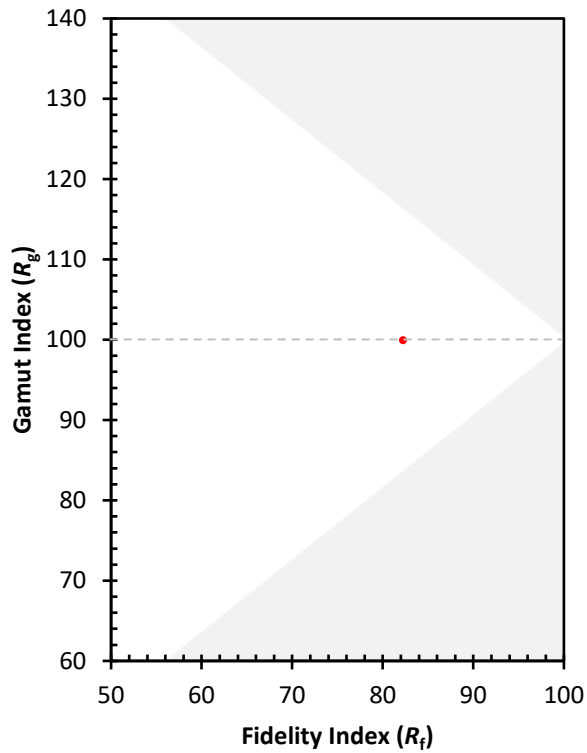
CES01 = 86	CES26 = 76	CES51 = 89	CES76 = 75
CES02 = 63	CES27 = 89	CES52 = 91	CES77 = 87
CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 78	CES82 = 95
CES08 = 42	CES33 = 71	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 84	CES59 = 93	CES84 = 94
CES10 = 77	CES35 = 92	CES60 = 96	CES85 = 83
CES11 = 59	CES36 = 92	CES61 = 94	CES86 = 69
CES12 = 66	CES37 = 89	CES62 = 84	CES87 = 85
CES13 = 44	CES38 = 75	CES63 = 79	CES88 = 84
CES14 = 74	CES39 = 93	CES64 = 85	CES89 = 74
CES15 = 72	CES40 = 89	CES65 = 79	CES90 = 81
CES16 = 48	CES41 = 85	CES66 = 83	CES91 = 96
CES17 = 50	CES42 = 88	CES67 = 82	CES92 = 72
CES18 = 57	CES43 = 81	CES68 = 86	CES93 = 84
CES19 = 73	CES44 = 98	CES69 = 92	CES94 = 63
CES20 = 67	CES45 = 87	CES70 = 81	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 81	CES96 = 85
CES22 = 79	CES47 = 76	CES72 = 93	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 75	CES98 = 82
CES24 = 91	CES49 = 81	CES74 = 91	CES99 = 76
CES25 = 72	CES50 = 88	CES75 = 79	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)