

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: P1068043

Luminaire Tested: **NAV-SA2C-827-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1068043
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA2C-827-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 2xLight Square PACKAGE
80CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7095.7 lumens
Efficiency: N/A
Efficacy: 73.8 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



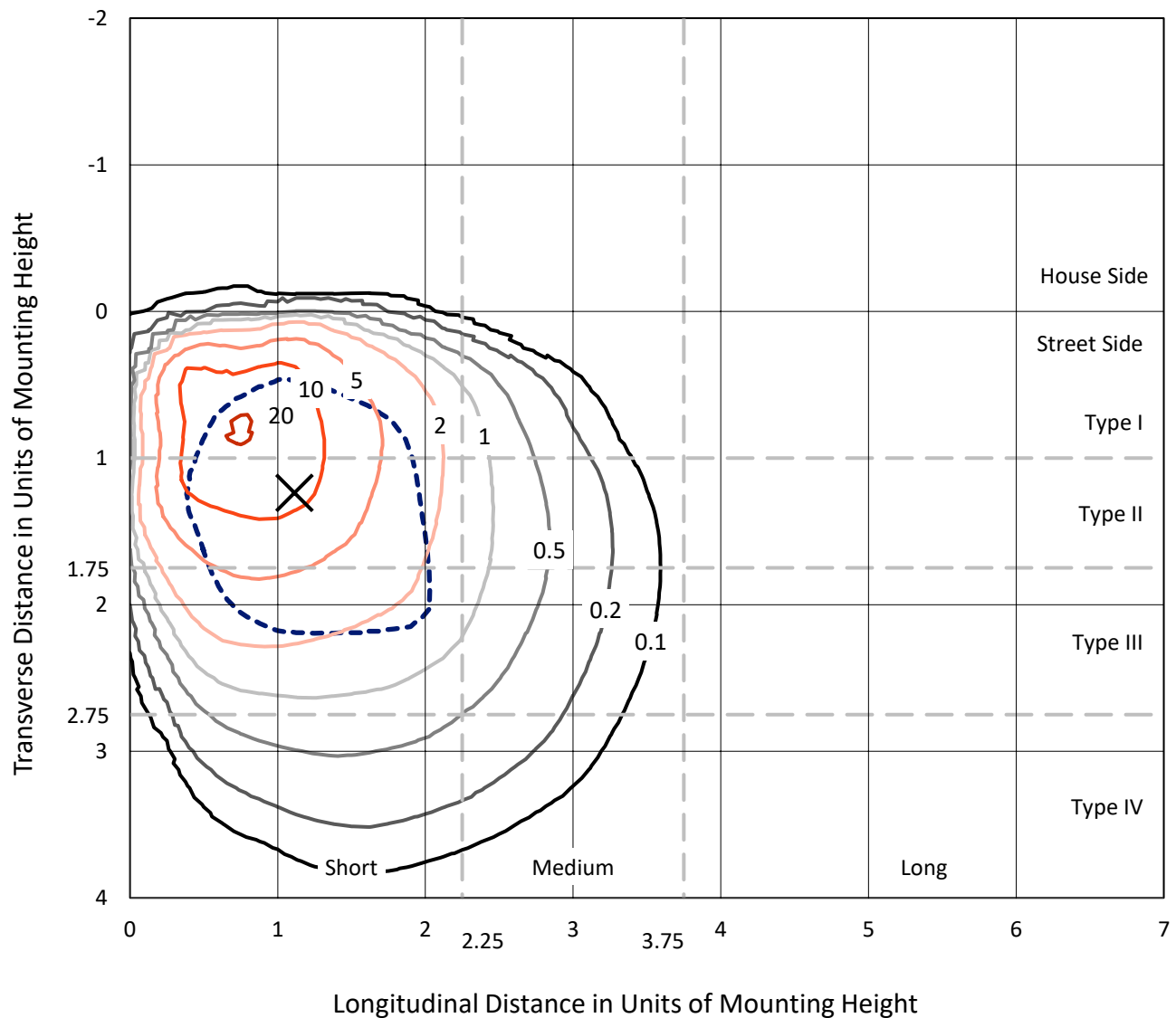
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

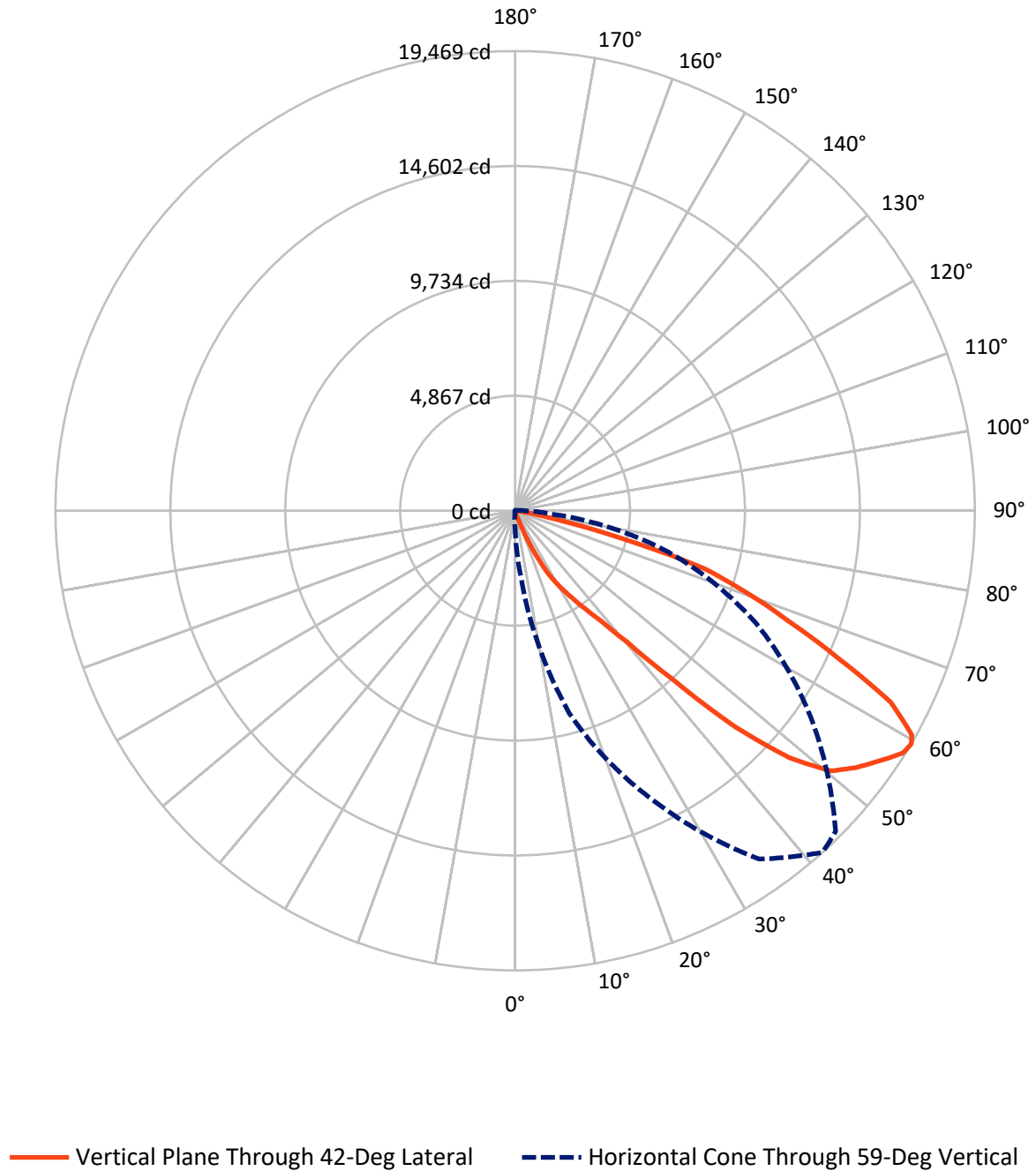


Based on 15 foot mounting height. Maximum calculated value = 21.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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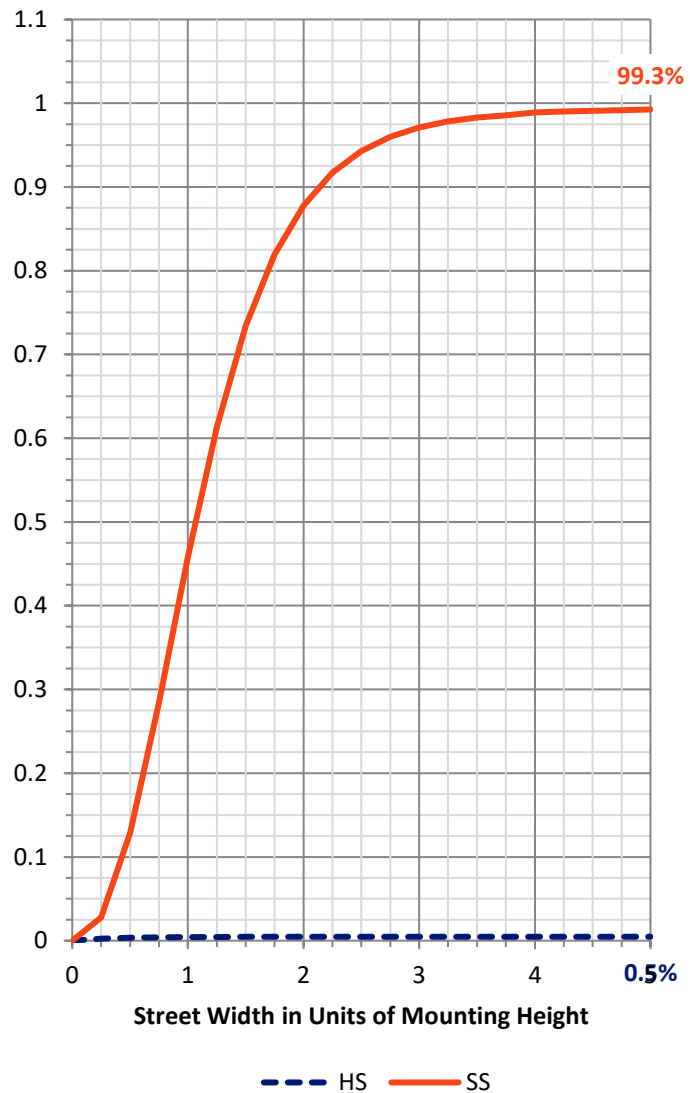
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	34.2	0.0	34.2
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	7061.6	0.0	7061.6
	% Fixture	99.5	0.0	99.5
Total	Lumens	7095.7	0.0	7095.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.0
10°-20°	10.3	0.1
20°-30°	132.4	1.9
30°-40°	446.2	6.3
40°-50°	1347.8	19.0
50°-60°	2379.2	33.5
60°-70°	2094.9	29.5
70°-80°	666.8	9.4
80°-90°	15.9	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°	7095.7	100.0
0°-180°	7095.7	100.0



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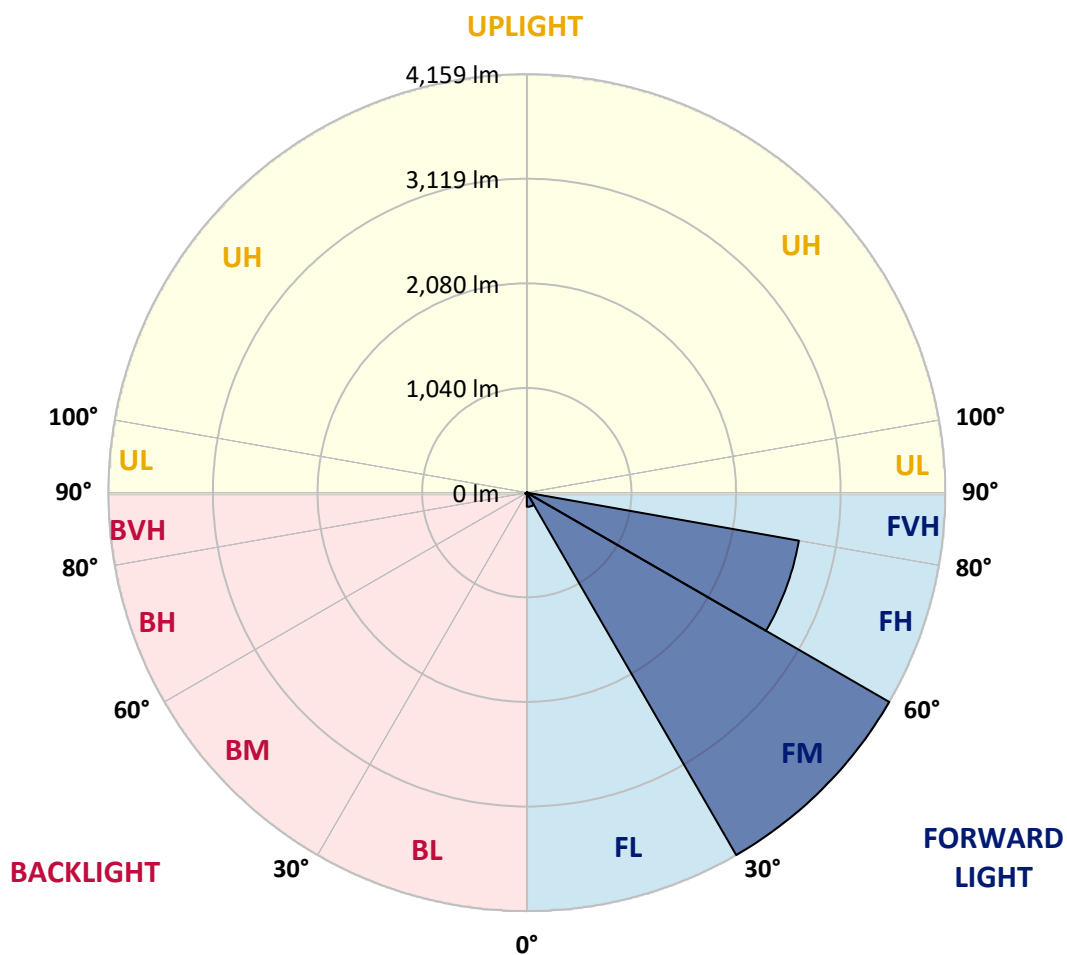
CATALOG NUMBER: NAV-SA2C-827-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	141.0	2.0			
FM	(30°-60°)	4159.3	58.6			
FH	(60°-80°)	2746.1	38.7			G2/5000
FVH	(80°-90°)	15.2	0.2			G1/100
BL	(0°-30°)	3.8	0.1	B0/110		
BM	(30°-60°)	14.0	0.2	B0/220		
BH	(60°-80°)	15.6	0.2	B0/110		G0/110
BVH	(80°-90°)	0.8	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°	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
2.5°	31.1	31.1	28.9	26.7	24.5	22.2	22.2	22.2	20.0	20.0	17.8
5°	35.6	35.6	33.4	31.1	31.1	28.9	28.9	26.7	24.5	24.5	22.2
7.5°	37.8	37.8	37.8	37.8	35.6	35.6	35.6	33.4	31.1	28.9	26.7
10°	40.0	42.3	44.5	44.5	44.5	44.5	44.5	42.3	37.8	35.6	31.1
12.5°	44.5	46.7	51.2	55.6	55.6	57.8	55.6	53.4	48.9	42.3	35.6
15°	48.9	53.4	60.1	69.0	77.9	80.1	80.1	73.4	64.5	51.2	42.3
17.5°	55.6	62.3	80.1	109.0	140.2	164.6	164.6	146.8	102.3	66.7	48.9
20°	60.1	73.4	129.0	262.5	400.5	502.8	482.8	427.2	229.2	104.6	53.4
22.5°	66.7	93.4	273.6	689.7	1067.9	1254.8	1210.3	918.8	513.9	186.9	64.5
25°	75.6	135.7	542.8	1292.6	1984.5	2186.9	2158.0	1715.3	936.6	313.7	82.3
27.5°	93.4	200.2	869.9	1960.0	2927.8	3101.3	3090.2	2511.8	1497.3	505.0	106.8
30°	117.9	291.4	1290.4	2663.0	3552.9	3728.7	3673.1	3094.6	2020.1	772.0	137.9
32.5°	146.8	407.1	1670.8	3181.4	4129.2	4360.5	4293.8	3601.9	2440.6	998.9	204.7
35°	191.3	520.6	2046.8	3639.7	4794.4	5088.0	4976.8	4124.7	2803.2	1254.8	246.9
37.5°	213.6	587.3	2391.6	4138.1	5541.9	5942.3	5857.8	4785.5	3172.5	1581.8	302.6
40°	215.8	667.4	2749.8	4787.7	6598.6	7312.8	7161.5	5920.1	3860.0	2002.3	389.3
42.5°	222.5	787.6	3214.8	5895.6	8674.3	9700.0	9528.7	8006.9	5419.5	2845.5	551.7
45°	253.6	1014.5	4162.5	7966.9	11524.3	13028.2	12830.2	10914.7	7597.6	4431.7	941.1
47.5°	362.6	1526.2	5824.4	10202.8	14438.7	15637.9	15588.9	13206.2	9570.9	6058.0	1595.2
50°	582.9	2342.7	7715.5	12082.7	16294.2	17324.2	17201.9	14162.8	10696.7	7168.2	2044.6
52.5°	778.7	3123.6	8903.5	12774.6	16848.1	18076.2	17927.1	14512.1	10992.6	7495.2	2169.1
55°	827.6	3406.1	9257.2	12988.2	17215.2	18712.5	18496.7	14745.7	11030.4	7261.6	1962.2
57.5°	803.1	3139.1	9028.1	13197.3	17726.9	19366.6	19079.6	15201.8	11157.2	6865.6	1633.0
59°	760.9	2809.9	8885.7	13364.1	18009.5	19468.9	19199.7	15301.9	11241.7	6685.4	1432.7
60°	711.9	2587.4	8774.5	13473.2	17991.7	19308.7	19030.6	15255.2	11275.1	6529.7	1337.1
62.5°	549.5	2064.6	8614.3	13395.3	16868.1	17847.0	17689.1	14111.7	10785.6	6031.3	1054.5
65°	427.2	1579.6	8026.9	11947.0	14354.2	15012.7	14963.8	11949.2	9077.0	5199.3	760.9
67.5°	338.2	1152.4	6787.7	9675.5	11548.7	12485.4	12449.8	9700.0	6890.1	3973.4	547.3
70°	275.9	820.9	4654.2	7295.0	9237.2	10416.3	10365.2	7806.7	5105.8	2520.7	398.2
72.5°	233.6	525.0	2823.2	5499.6	7708.8	8382.9	8233.8	6298.3	3713.1	1372.7	315.9
75°	198.0	322.6	1399.4	3428.4	4591.9	4587.5	4438.4	3334.9	1993.4	671.9	251.4
77.5°	160.2	226.9	549.5	941.1	1448.3	1793.2	1764.2	1181.3	596.2	195.8	155.7
80°	104.6	106.8	146.8	258.1	398.2	440.5	500.6	360.4	173.5	93.4	64.5
82.5°	46.7	51.2	66.7	84.5	84.5	77.9	69.0	51.2	37.8	31.1	15.6
85°	11.1	15.6	11.1	13.3	11.1	8.9	8.9	4.4	0.0	0.0	0.0
87.5°	2.2	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°	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
2.5°	17.8	17.8	17.8	15.6	15.6	15.6	13.3	13.3	13.3	11.1	11.1
5°	22.2	20.0	17.8	17.8	15.6	15.6	13.3	11.1	11.1	11.1	8.9
7.5°	24.5	22.2	20.0	17.8	15.6	13.3	13.3	11.1	8.9	8.9	8.9
10°	28.9	26.7	22.2	17.8	15.6	13.3	11.1	11.1	8.9	6.7	6.7
12.5°	33.4	28.9	24.5	20.0	15.6	13.3	11.1	11.1	8.9	6.7	4.4
15°	37.8	33.4	26.7	20.0	15.6	13.3	11.1	11.1	6.7	4.4	2.2
17.5°	42.3	35.6	26.7	22.2	15.6	13.3	11.1	8.9	4.4	2.2	0.0
20°	44.5	37.8	28.9	22.2	15.6	13.3	11.1	6.7	2.2	0.0	0.0
22.5°	48.9	42.3	31.1	22.2	15.6	11.1	6.7	2.2	0.0	0.0	0.0
25°	57.8	44.5	31.1	22.2	15.6	11.1	4.4	0.0	0.0	0.0	0.0
27.5°	64.5	48.9	31.1	22.2	15.6	8.9	2.2	0.0	0.0	0.0	0.0
30°	75.6	53.4	33.4	22.2	15.6	6.7	2.2	0.0	0.0	0.0	0.0
32.5°	93.4	57.8	33.4	22.2	13.3	6.7	0.0	0.0	0.0	0.0	0.0
35°	113.5	66.7	33.4	22.2	13.3	6.7	0.0	0.0	0.0	0.0	0.0
37.5°	115.7	71.2	33.4	22.2	13.3	4.4	0.0	0.0	0.0	0.0	0.0
40°	120.1	66.7	35.6	22.2	13.3	4.4	0.0	0.0	0.0	0.0	0.0
42.5°	137.9	62.3	37.8	22.2	13.3	4.4	0.0	0.0	0.0	0.0	0.0
45°	204.7	64.5	37.8	24.5	13.3	6.7	0.0	0.0	0.0	0.0	0.0
47.5°	356.0	66.7	35.6	24.5	13.3	6.7	0.0	0.0	0.0	0.0	0.0
50°	456.1	77.9	35.6	26.7	15.6	4.4	0.0	0.0	0.0	0.0	0.0
52.5°	485.0	91.2	35.6	28.9	20.0	2.2	0.0	0.0	0.0	0.0	0.0
55°	471.6	106.8	37.8	31.1	24.5	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	436.1	115.7	40.0	33.4	26.7	0.0	0.0	0.0	0.0	0.0	0.0
59°	398.2	122.4	46.7	35.6	26.7	0.0	0.0	0.0	0.0	0.0	0.0
60°	367.1	129.0	48.9	37.8	26.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	295.9	137.9	53.4	44.5	22.2	0.0	0.0	0.0	0.0	0.0	0.0
65°	258.1	144.6	55.6	48.9	20.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	235.8	149.1	60.1	51.2	17.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	218.0	146.8	64.5	48.9	15.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	198.0	140.2	77.9	44.5	13.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	178.0	126.8	84.5	40.0	8.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	129.0	106.8	77.9	35.6	4.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	55.6	57.8	55.6	26.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	11.1	13.3	11.1	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
2.5°	11.1	11.1	11.1	11.1	13.3	13.3	17.8	22.2	26.7	28.9	28.9
5°	8.9	8.9	8.9	8.9	8.9	11.1	13.3	17.8	24.5	26.7	26.7
7.5°	6.7	6.7	6.7	6.7	6.7	6.7	11.1	15.6	22.2	24.5	26.7
10°	6.7	4.4	4.4	2.2	2.2	4.4	6.7	13.3	20.0	22.2	24.5
12.5°	4.4	2.2	2.2	0.0	0.0	2.2	4.4	11.1	17.8	20.0	22.2
15°	2.2	0.0	0.0	0.0	0.0	0.0	2.2	8.9	15.6	17.8	22.2
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	13.3	17.8	20.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	11.1	15.6	17.8
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	8.9	13.3	15.6
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	8.9	11.1
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	6.7	8.9
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	6.7	8.9
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.4	6.7
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.4	6.7
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.4	4.4
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.4
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.4
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.4
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.4
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.4
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2
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°	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
2.5°	31.1	31.1	28.9	26.7	26.7	26.7	28.9	31.1	31.1	31.1
5°	28.9	28.9	26.7	26.7	26.7	26.7	28.9	33.4	35.6	35.6
7.5°	28.9	28.9	26.7	26.7	26.7	26.7	28.9	33.4	35.6	37.8
10°	26.7	26.7	26.7	26.7	24.5	26.7	28.9	33.4	40.0	40.0
12.5°	26.7	26.7	26.7	26.7	24.5	26.7	31.1	35.6	42.3	44.5
15°	26.7	26.7	26.7	24.5	24.5	26.7	31.1	37.8	44.5	48.9
17.5°	24.5	26.7	26.7	24.5	24.5	26.7	31.1	37.8	48.9	55.6
20°	22.2	24.5	26.7	24.5	24.5	24.5	31.1	37.8	51.2	60.1
22.5°	20.0	22.2	24.5	24.5	22.2	24.5	31.1	40.0	55.6	66.7
25°	17.8	20.0	20.0	22.2	22.2	24.5	31.1	40.0	57.8	75.6
27.5°	13.3	15.6	17.8	20.0	20.0	24.5	31.1	42.3	62.3	93.4
30°	11.1	13.3	15.6	17.8	20.0	24.5	31.1	42.3	66.7	117.9
32.5°	11.1	13.3	15.6	17.8	20.0	22.2	31.1	44.5	73.4	146.8
35°	8.9	11.1	13.3	17.8	17.8	22.2	31.1	44.5	80.1	191.3
37.5°	8.9	11.1	13.3	17.8	17.8	22.2	31.1	44.5	97.9	213.6
40°	6.7	8.9	11.1	17.8	17.8	22.2	33.4	46.7	100.1	215.8
42.5°	6.7	8.9	11.1	15.6	17.8	22.2	33.4	46.7	93.4	222.5
45°	6.7	8.9	11.1	17.8	20.0	24.5	33.4	48.9	91.2	253.6
47.5°	6.7	8.9	11.1	17.8	22.2	24.5	33.4	48.9	93.4	362.6
50°	6.7	8.9	11.1	17.8	24.5	24.5	33.4	48.9	102.3	582.9
52.5°	4.4	6.7	8.9	15.6	20.0	26.7	35.6	46.7	109.0	778.7
55°	4.4	4.4	6.7	13.3	17.8	28.9	37.8	46.7	126.8	827.6
57.5°	4.4	4.4	6.7	11.1	15.6	31.1	40.0	46.7	146.8	803.1
59°	4.4	4.4	4.4	11.1	13.3	31.1	40.0	48.9	149.1	760.9
60°	4.4	4.4	4.4	8.9	13.3	31.1	42.3	51.2	151.3	711.9
62.5°	2.2	2.2	2.2	8.9	11.1	31.1	46.7	62.3	155.7	549.5
65°	4.4	4.4	2.2	6.7	11.1	26.7	53.4	66.7	158.0	427.2
67.5°	4.4	4.4	4.4	8.9	11.1	26.7	55.6	69.0	158.0	338.2
70°	4.4	4.4	4.4	8.9	13.3	26.7	55.6	71.2	155.7	275.9
72.5°	4.4	4.4	4.4	8.9	13.3	24.5	51.2	73.4	149.1	233.6
75°	4.4	4.4	4.4	6.7	11.1	22.2	48.9	80.1	135.7	198.0
77.5°	4.4	4.4	4.4	4.4	8.9	17.8	44.5	89.0	120.1	160.2
80°	6.7	4.4	4.4	4.4	6.7	15.6	42.3	86.8	100.1	104.6
82.5°	6.7	4.4	4.4	2.2	4.4	11.1	33.4	66.7	51.2	46.7
85°	4.4	4.4	4.4	2.2	2.2	6.7	15.6	20.0	15.6	11.1
87.5°	4.4	4.4	4.4	2.2	2.2	2.2	2.2	2.2	2.2	2.2
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

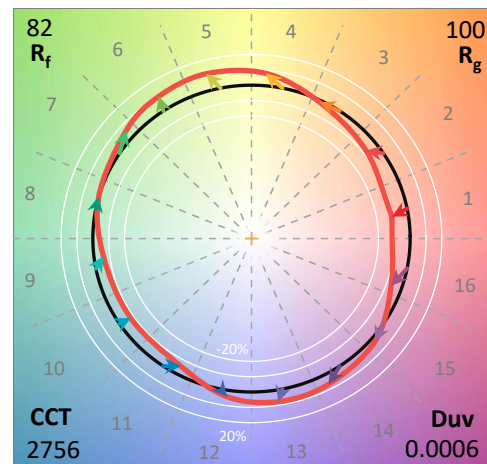
Test Information

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

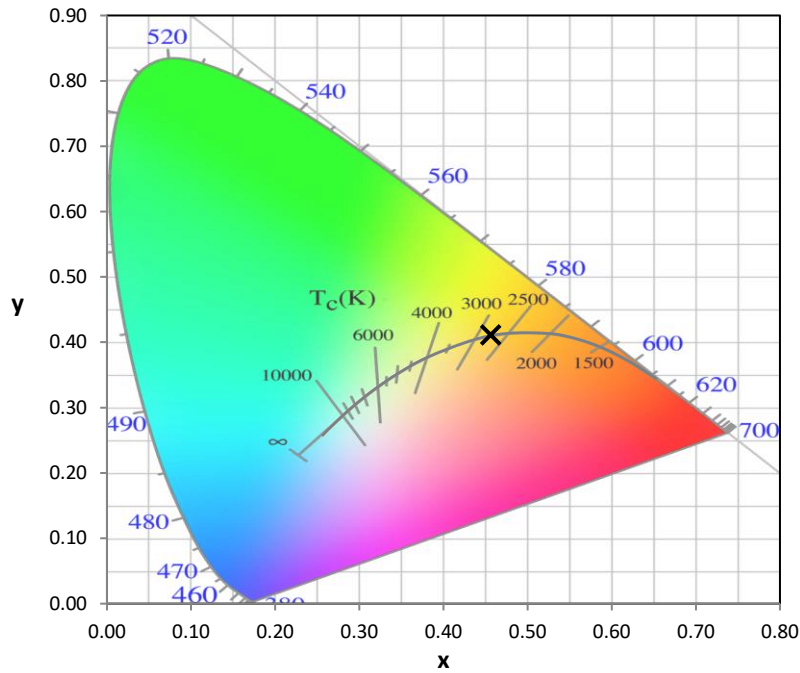
Stabilization Time: 29M
 Operation Time: 1H 29M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-8

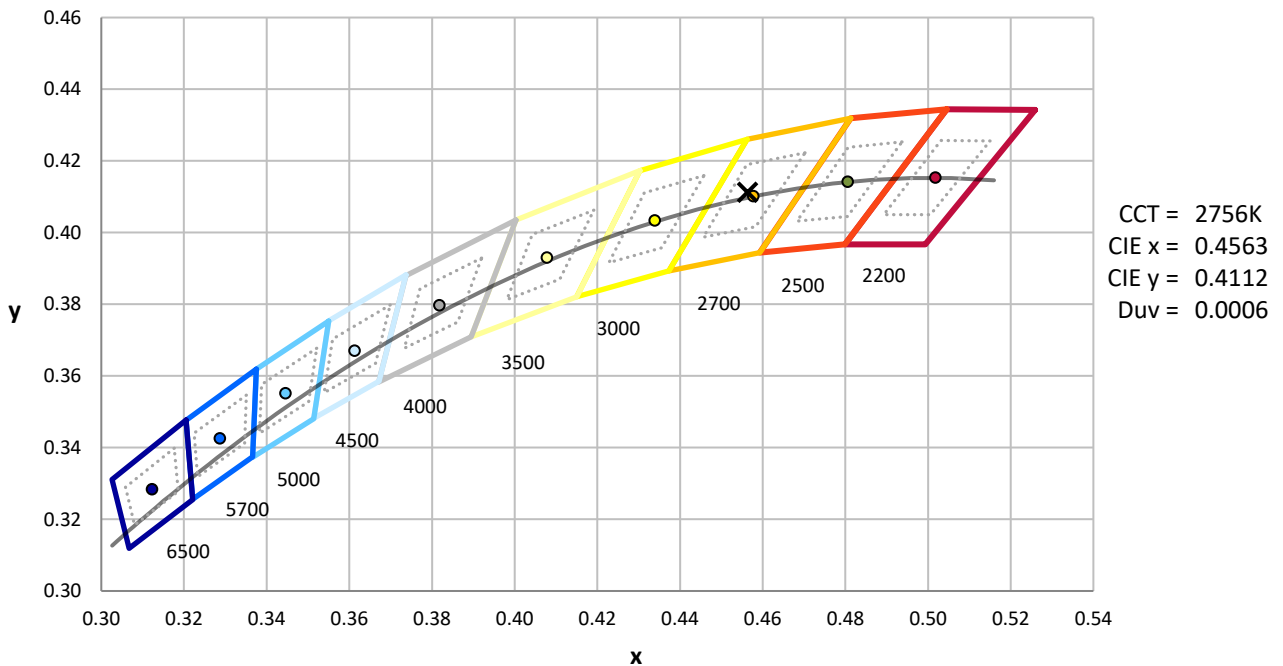
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



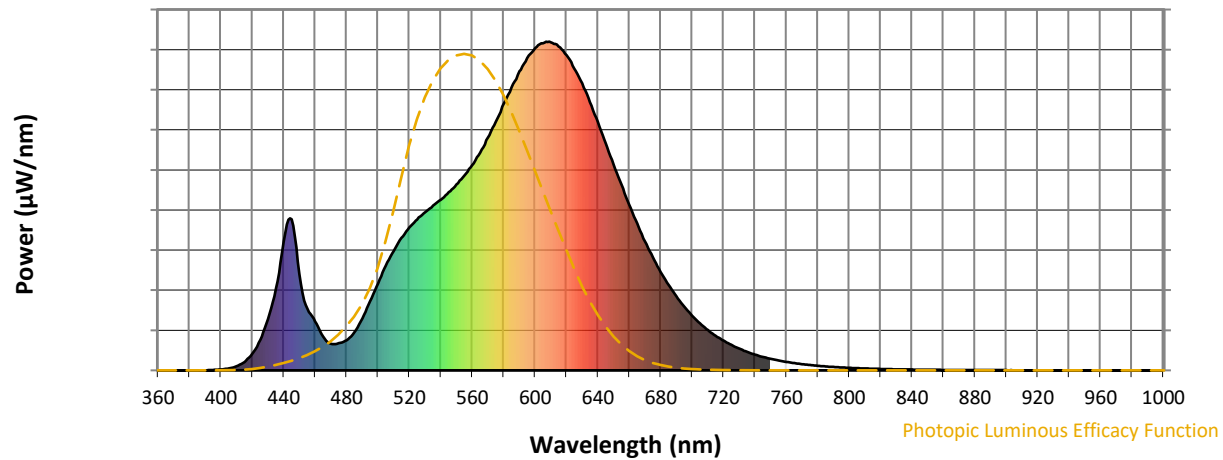
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-8

Photopic Flux vs. Wavelength

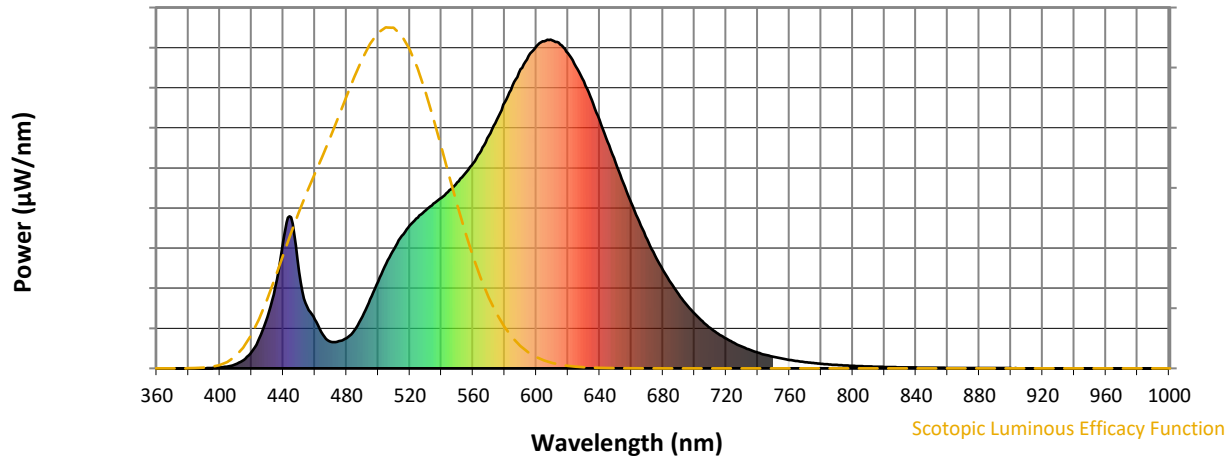


Photopic Lumens: NR

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



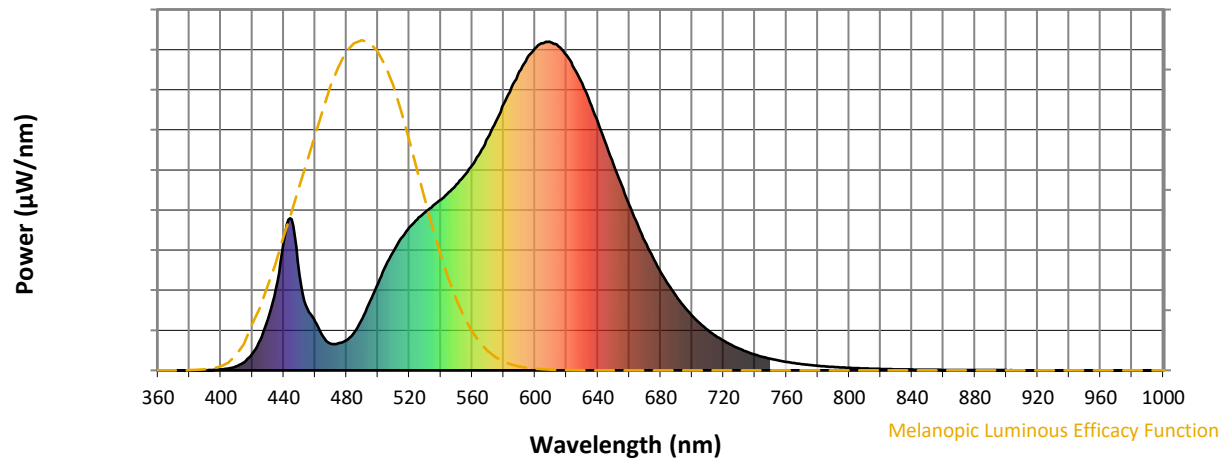
Scotopic Lumens: NR

S/P: 1.2

λ (nm)	Power W ^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	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			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.16

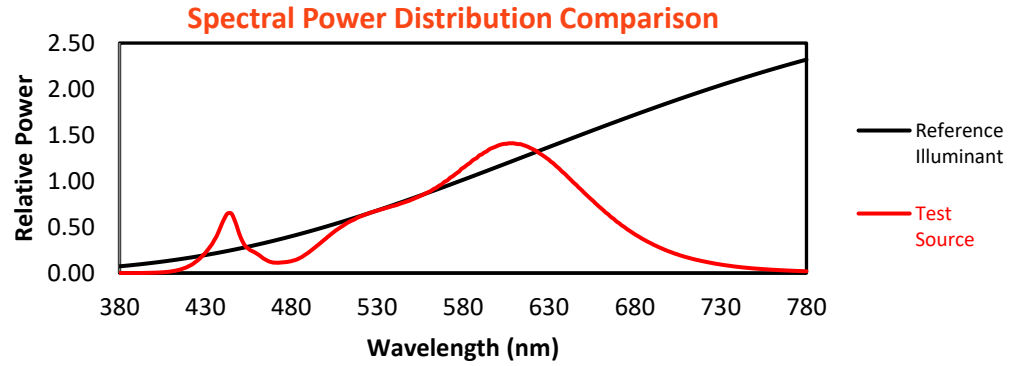
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	158	NR	620	959	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

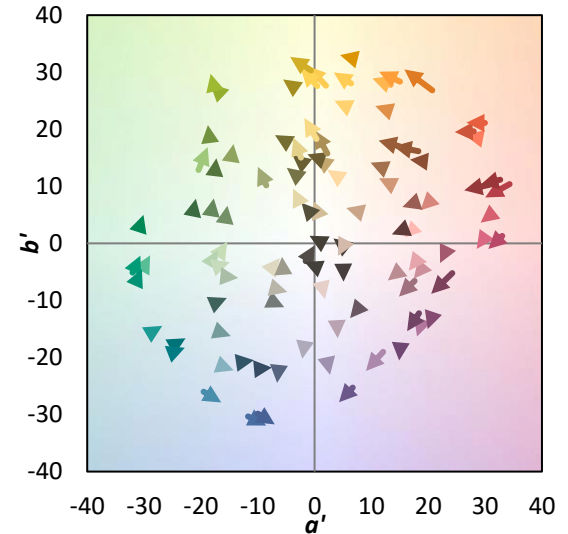
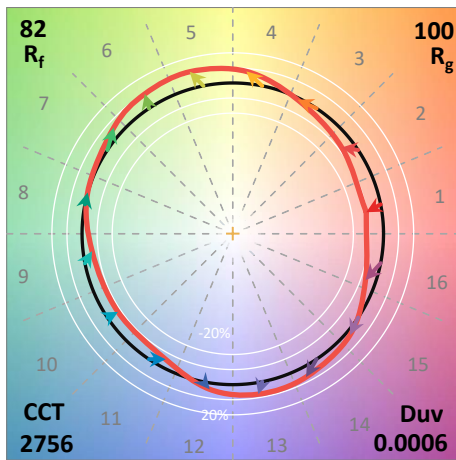
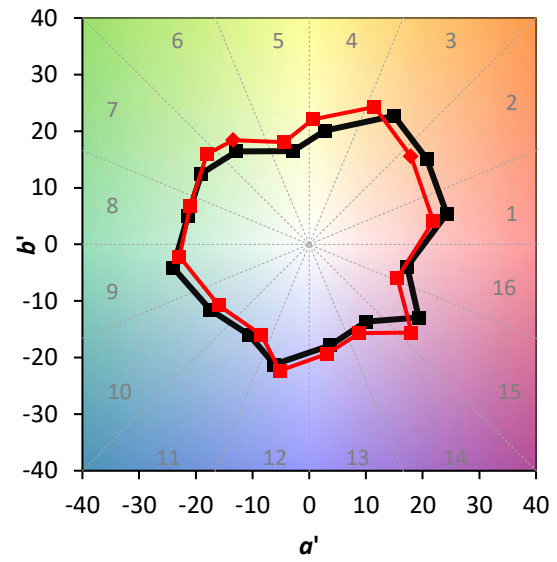
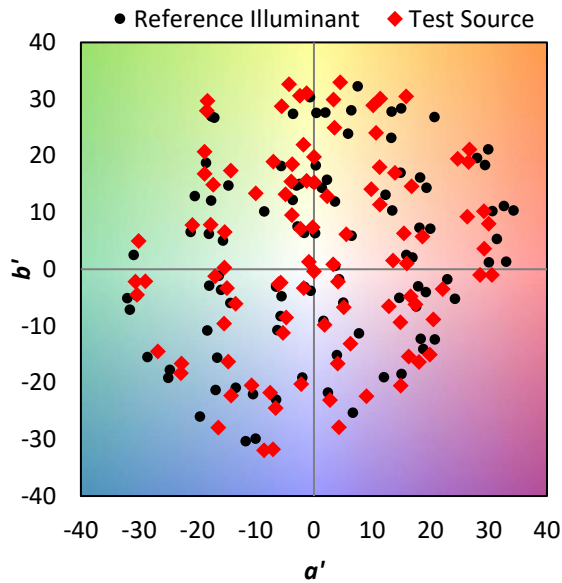
TM-30-18

Summary

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

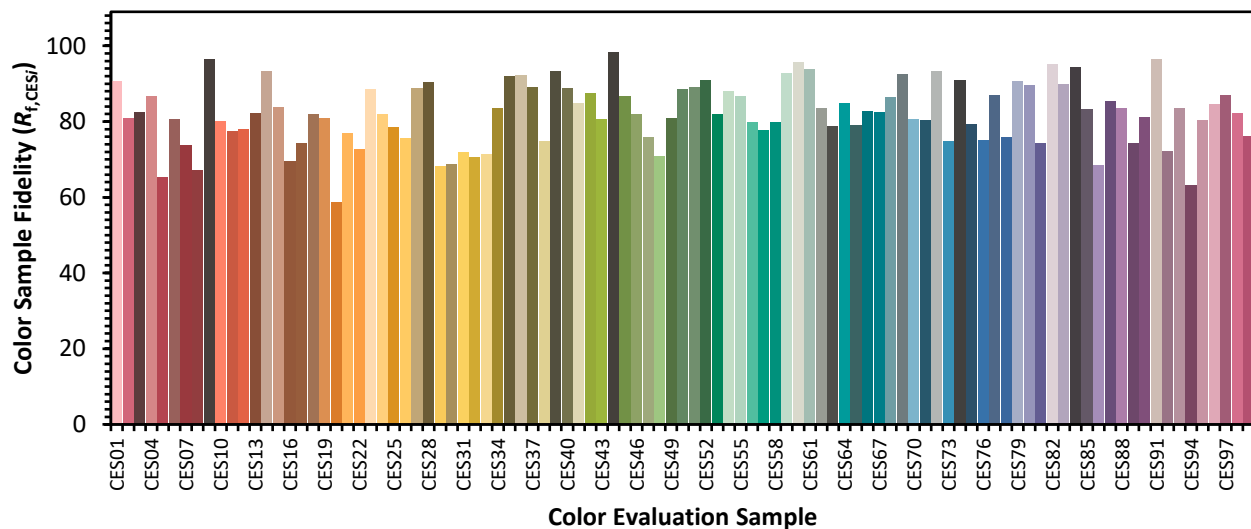


Color Vector Graphics

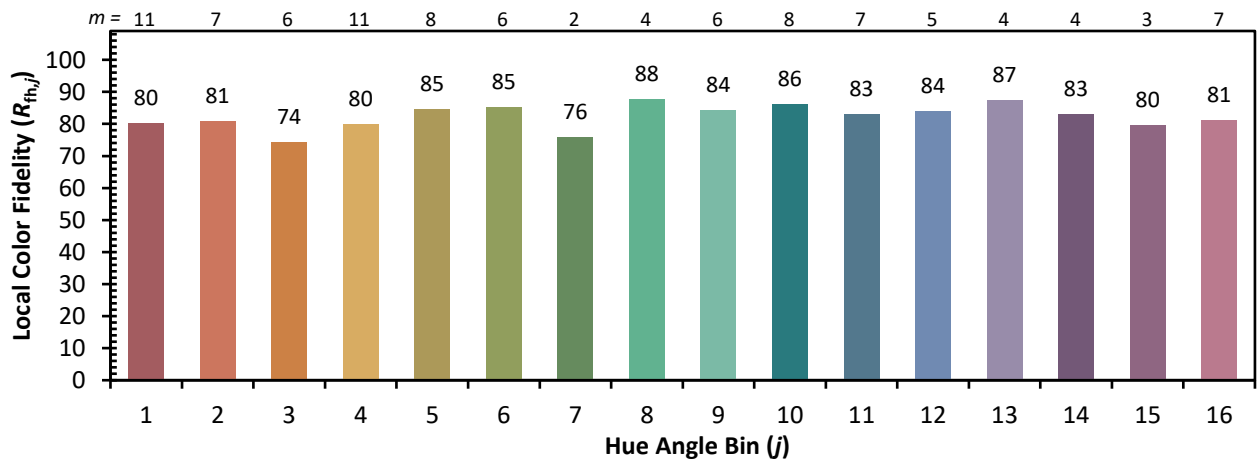
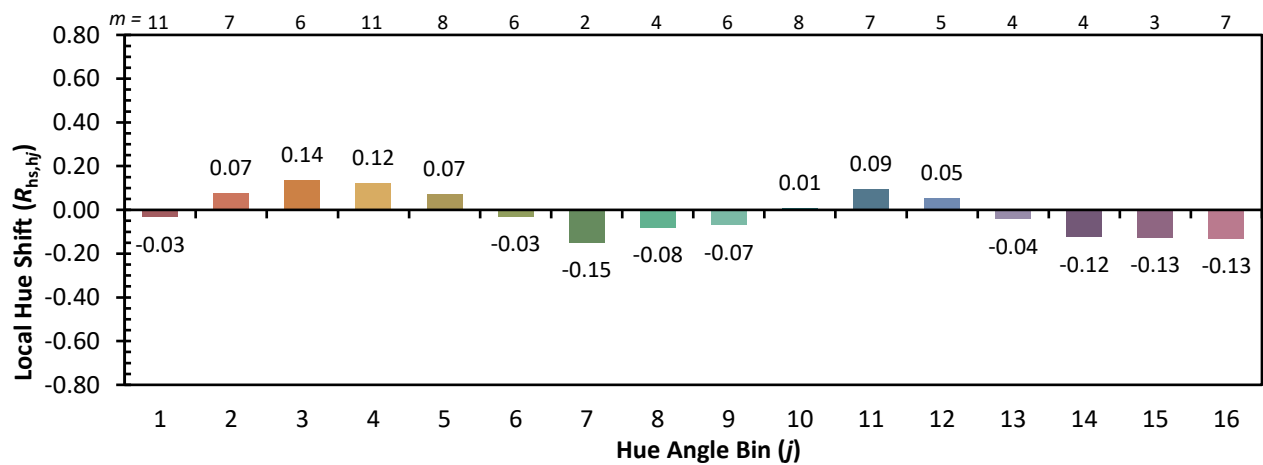
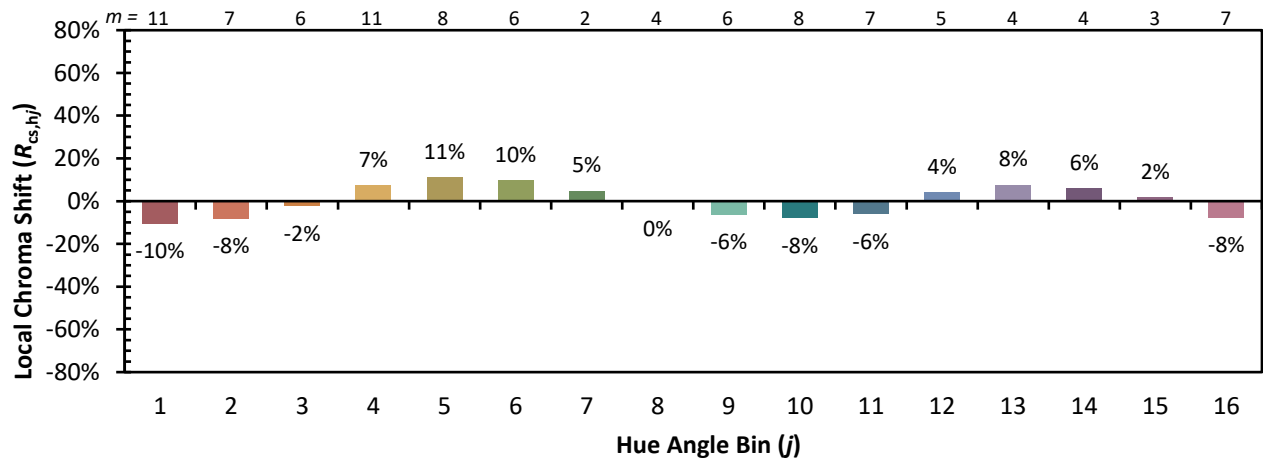


Individual Sample Fidelity Index ($R_{f,i}$)

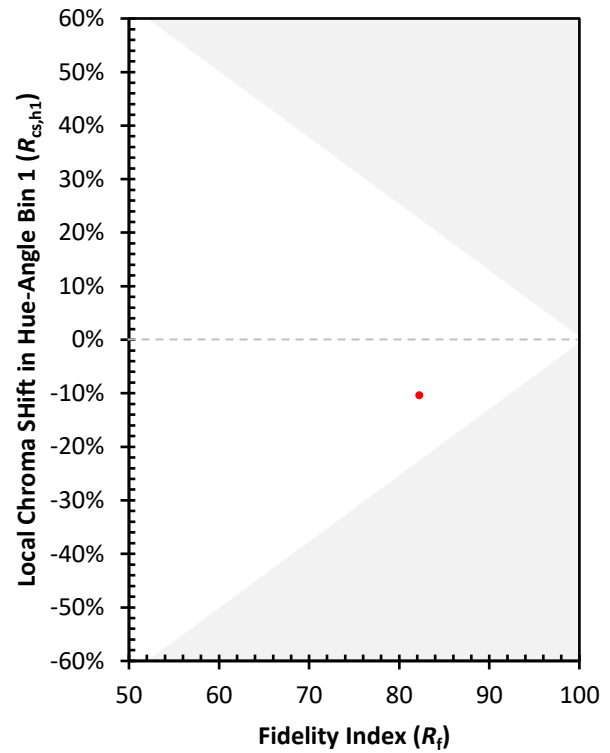
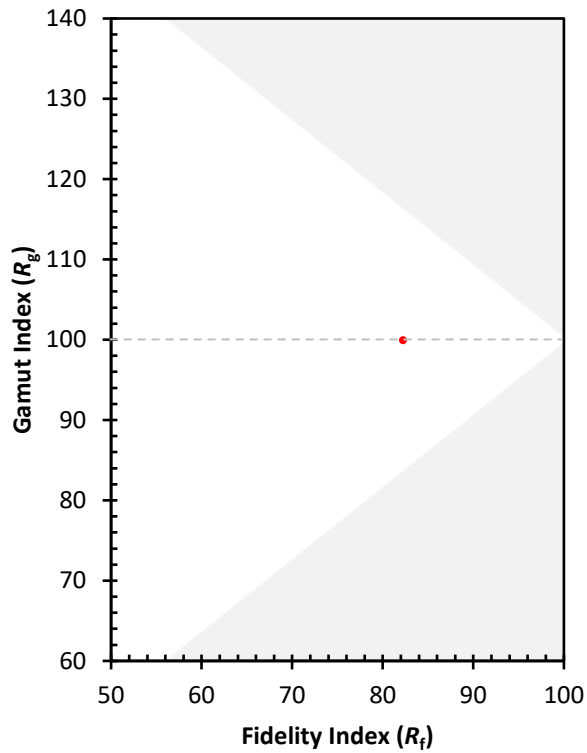
CES01 = 86	CES26 = 76	CES51 = 89	CES76 = 75
CES02 = 63	CES27 = 89	CES52 = 91	CES77 = 87
CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 78	CES82 = 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)