

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: P1067917

Luminaire Tested: **NAV-SA1A-727-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067917
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA1A-727-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 1xLight Square PACKAGE
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (14) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2664.9 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 29.2
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



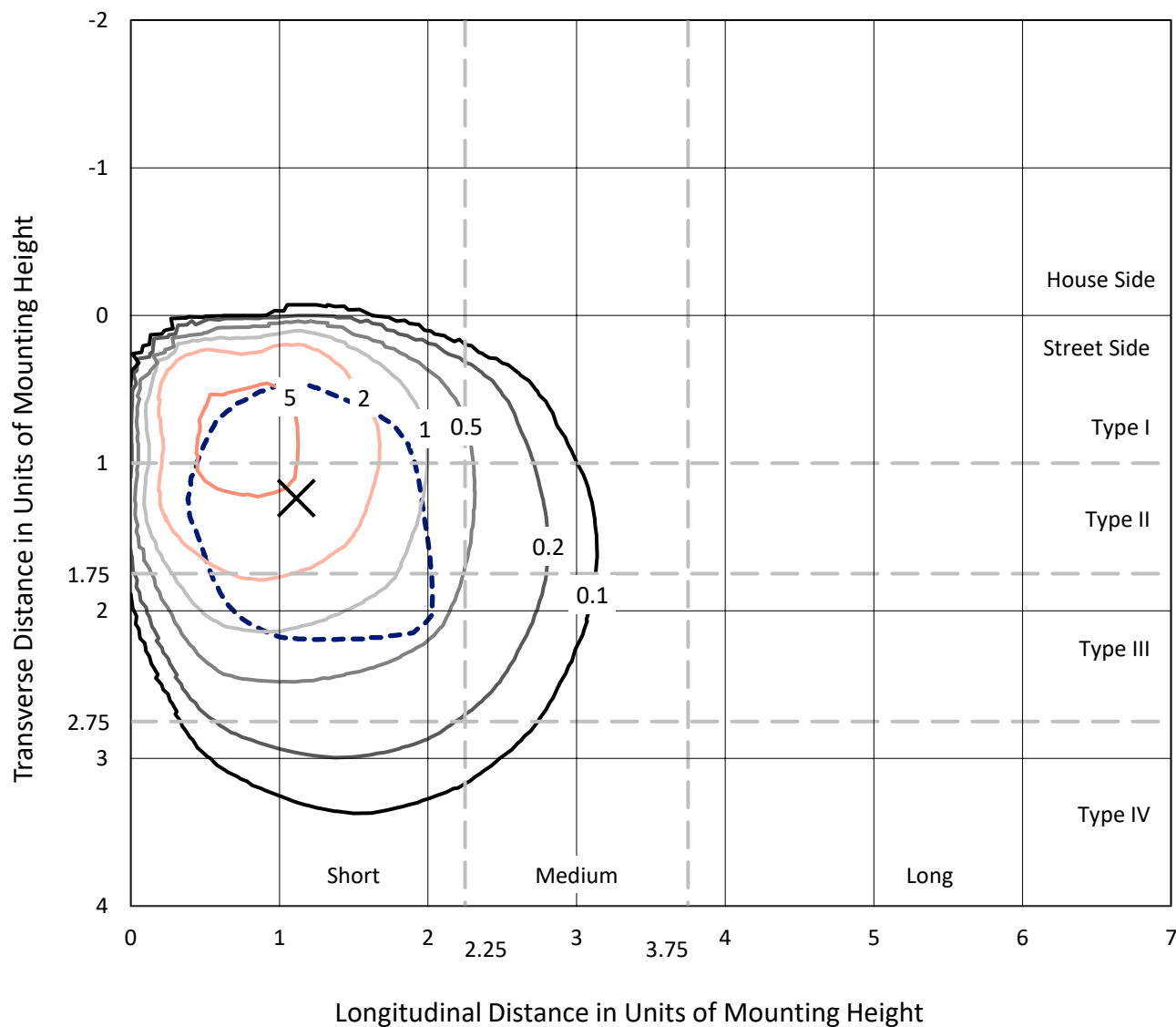
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

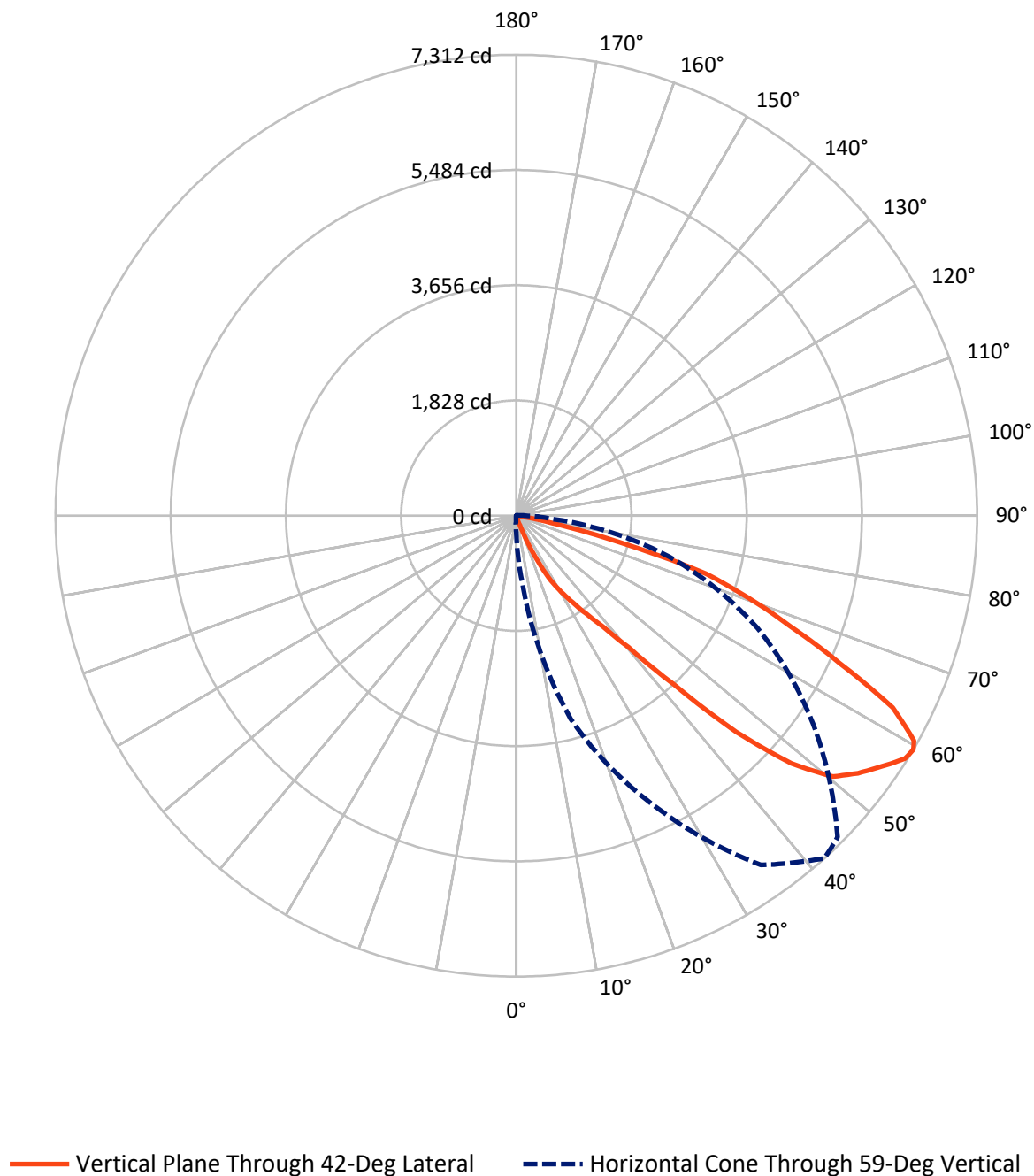


Based on 15 foot mounting height. Maximum calculated value = 7.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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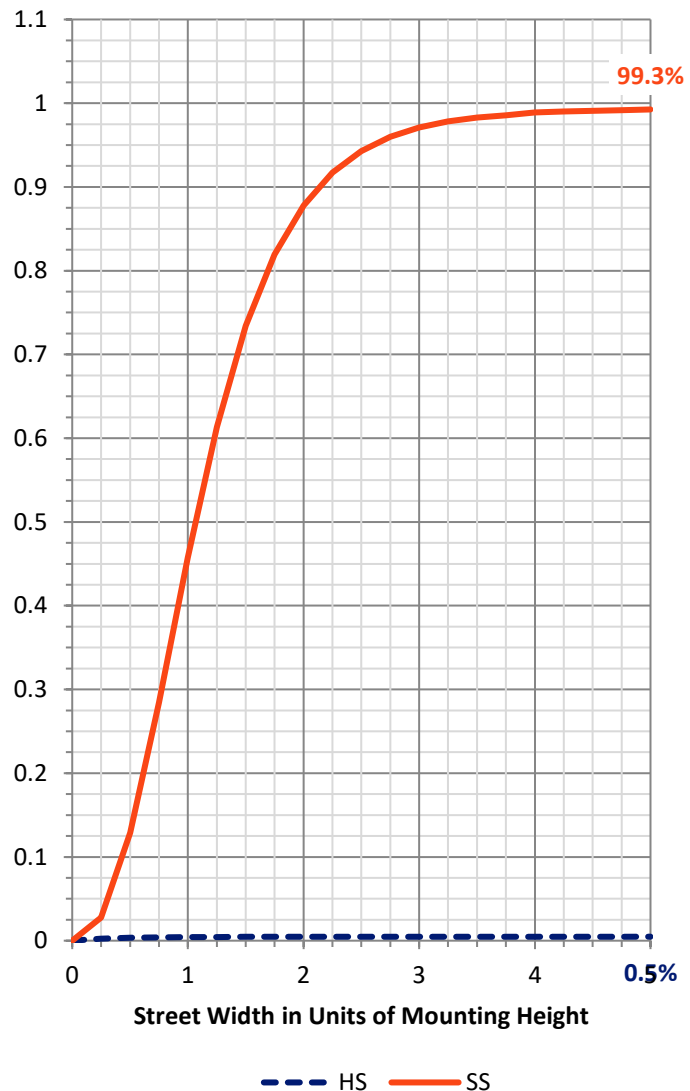
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12.8	0.0	12.8
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	2652.1	0.0	2652.1
	% Fixture	99.5	0.0	99.5
Total	Lumens	2664.9	0.0	2664.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.8	0.0
10°-20°	3.9	0.1
20°-30°	49.7	1.9
30°-40°	167.6	6.3
40°-50°	506.2	19.0
50°-60°	893.5	33.5
60°-70°	786.8	29.5
70°-80°	250.4	9.4
80°-90°	6.0	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°	2664.9	100.0
0°-180°	2664.9	100.0



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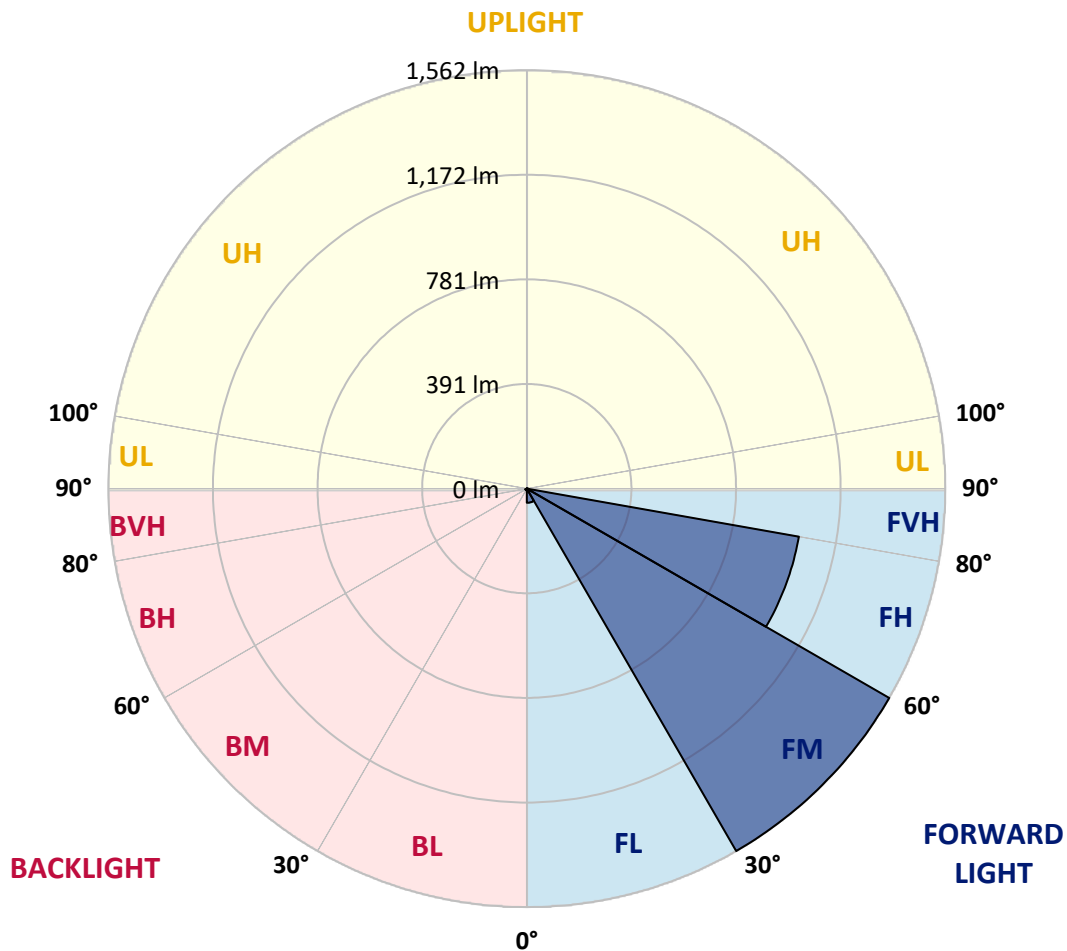
CATALOG NUMBER: NAV-SA1A-727-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	52.9	2.0			
FM	(30°-60°)	1562.1	58.6			
FH	(60°-80°)	1031.4	38.7			G1/1800
FVH	(80°-90°)	5.7	0.2			G0/10
BL	(0°-30°)	1.4	0.1	B0/110		
BM	(30°-60°)	5.2	0.2	B0/220		
BH	(60°-80°)	5.9	0.2	B0/110		G0/110
BVH	(80°-90°)	0.3	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
2.5°	11.7	11.7	10.9	10.0	9.2	8.4	8.4	8.4	7.5	7.5	6.7
5°	13.4	13.4	12.5	11.7	11.7	10.9	10.9	10.0	9.2	9.2	8.4
7.5°	14.2	14.2	14.2	14.2	13.4	13.4	13.4	12.5	11.7	10.9	10.0
10°	15.0	15.9	16.7	16.7	16.7	16.7	16.7	15.9	14.2	13.4	11.7
12.5°	16.7	17.5	19.2	20.9	20.9	21.7	20.9	20.1	18.4	15.9	13.4
15°	18.4	20.1	22.6	25.9	29.2	30.1	30.1	27.6	24.2	19.2	15.9
17.5°	20.9	23.4	30.1	40.9	52.6	61.8	61.8	55.1	38.4	25.1	18.4
20°	22.6	27.6	48.5	98.6	150.4	188.8	181.3	160.4	86.1	39.3	20.1
22.5°	25.1	35.1	102.8	259.0	401.1	471.2	454.5	345.1	193.0	70.2	24.2
25°	28.4	51.0	203.9	485.5	745.3	821.3	810.5	644.2	351.8	117.8	30.9
27.5°	35.1	75.2	326.7	736.1	1099.6	1164.7	1160.6	943.3	562.3	189.7	40.1
30°	44.3	109.5	484.6	1000.1	1334.4	1400.4	1379.5	1162.2	758.7	289.9	51.8
32.5°	55.1	152.9	627.5	1194.8	1550.8	1637.7	1612.6	1352.7	916.6	375.2	76.9
35°	71.9	195.5	768.7	1366.9	1800.6	1910.9	1869.1	1549.1	1052.8	471.2	92.7
37.5°	80.2	220.6	898.2	1554.1	2081.3	2231.7	2200.0	1797.3	1191.5	594.1	113.6
40°	81.0	250.7	1032.7	1798.1	2478.2	2746.4	2689.6	2223.4	1449.7	752.0	146.2
42.5°	83.6	295.8	1207.4	2214.2	3257.8	3643.0	3578.6	3007.1	2035.4	1068.7	207.2
45°	95.3	381.0	1563.3	2992.1	4328.1	4892.9	4818.6	4099.2	2853.4	1664.4	353.4
47.5°	136.2	573.2	2187.5	3831.8	5422.7	5873.0	5854.7	4959.8	3594.5	2275.2	599.1
50°	218.9	879.8	2897.7	4537.8	6119.5	6506.4	6460.4	5319.1	4017.3	2692.1	767.9
52.5°	292.4	1173.1	3343.8	4797.7	6327.6	6788.8	6732.8	5450.2	4128.4	2814.9	814.7
55°	310.8	1279.2	3476.7	4877.9	6465.4	7027.8	6946.7	5538.0	4142.6	2727.2	736.9
57.5°	301.6	1179.0	3390.6	4956.4	6657.6	7273.4	7165.6	5709.3	4190.2	2578.5	613.3
59°	285.8	1055.3	3337.2	5019.1	6763.7	7311.8	7210.7	5746.9	4222.0	2510.8	538.1
60°	267.4	971.7	3295.4	5060.1	6757.0	7251.7	7147.2	5729.3	4234.5	2452.3	502.2
62.5°	206.4	775.4	3235.2	5030.8	6335.1	6702.7	6643.4	5299.9	4050.7	2265.2	396.0
65°	160.4	593.2	3014.6	4486.9	5390.9	5638.2	5619.9	4487.7	3409.0	1952.7	285.8
67.5°	127.0	432.8	2549.2	3633.8	4337.3	4689.1	4675.7	3643.0	2587.7	1492.3	205.5
70°	103.6	308.3	1748.0	2739.7	3469.2	3912.0	3892.8	2931.9	1917.6	946.7	149.6
72.5°	87.7	197.2	1060.3	2065.5	2895.2	3148.3	3092.3	2365.4	1394.5	515.5	118.6
75°	74.4	121.2	525.6	1287.6	1724.6	1722.9	1666.9	1252.5	748.6	252.3	94.4
77.5°	60.2	85.2	206.4	353.4	543.9	673.4	662.6	443.7	223.9	73.5	58.5
80°	39.3	40.1	55.1	96.9	149.6	165.4	188.0	135.4	65.2	35.1	24.2
82.5°	17.5	19.2	25.1	31.8	31.8	29.2	25.9	19.2	14.2	11.7	5.8
85°	4.2	5.8	4.2	5.0	4.2	3.3	3.3	1.7	0.0	0.0	0.0
87.5°	0.8	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°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
2.5°	6.7	6.7	6.7	5.8	5.8	5.8	5.0	5.0	5.0	4.2	4.2
5°	8.4	7.5	6.7	6.7	5.8	5.8	5.0	4.2	4.2	4.2	3.3
7.5°	9.2	8.4	7.5	6.7	5.8	5.0	5.0	4.2	3.3	3.3	3.3
10°	10.9	10.0	8.4	6.7	5.8	5.0	4.2	4.2	3.3	2.5	2.5
12.5°	12.5	10.9	9.2	7.5	5.8	5.0	4.2	4.2	3.3	2.5	1.7
15°	14.2	12.5	10.0	7.5	5.8	5.0	4.2	4.2	2.5	1.7	0.8
17.5°	15.9	13.4	10.0	8.4	5.8	5.0	4.2	3.3	1.7	0.8	0.0
20°	16.7	14.2	10.9	8.4	5.8	5.0	4.2	2.5	0.8	0.0	0.0
22.5°	18.4	15.9	11.7	8.4	5.8	4.2	2.5	0.8	0.0	0.0	0.0
25°	21.7	16.7	11.7	8.4	5.8	4.2	1.7	0.0	0.0	0.0	0.0
27.5°	24.2	18.4	11.7	8.4	5.8	3.3	0.8	0.0	0.0	0.0	0.0
30°	28.4	20.1	12.5	8.4	5.8	2.5	0.8	0.0	0.0	0.0	0.0
32.5°	35.1	21.7	12.5	8.4	5.0	2.5	0.0	0.0	0.0	0.0	0.0
35°	42.6	25.1	12.5	8.4	5.0	2.5	0.0	0.0	0.0	0.0	0.0
37.5°	43.4	26.7	12.5	8.4	5.0	1.7	0.0	0.0	0.0	0.0	0.0
40°	45.1	25.1	13.4	8.4	5.0	1.7	0.0	0.0	0.0	0.0	0.0
42.5°	51.8	23.4	14.2	8.4	5.0	1.7	0.0	0.0	0.0	0.0	0.0
45°	76.9	24.2	14.2	9.2	5.0	2.5	0.0	0.0	0.0	0.0	0.0
47.5°	133.7	25.1	13.4	9.2	5.0	2.5	0.0	0.0	0.0	0.0	0.0
50°	171.3	29.2	13.4	10.0	5.8	1.7	0.0	0.0	0.0	0.0	0.0
52.5°	182.1	34.3	13.4	10.9	7.5	0.8	0.0	0.0	0.0	0.0	0.0
55°	177.1	40.1	14.2	11.7	9.2	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	163.8	43.4	15.0	12.5	10.0	0.0	0.0	0.0	0.0	0.0	0.0
59°	149.6	46.0	17.5	13.4	10.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	137.9	48.5	18.4	14.2	10.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	111.1	51.8	20.1	16.7	8.4	0.0	0.0	0.0	0.0	0.0	0.0
65°	96.9	54.3	20.9	18.4	7.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	88.6	56.0	22.6	19.2	6.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	81.9	55.1	24.2	18.4	5.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	74.4	52.6	29.2	16.7	5.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	66.8	47.6	31.8	15.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	48.5	40.1	29.2	13.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	20.9	21.7	20.9	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.2	5.0	4.2	2.5	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°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
2.5°	4.2	4.2	4.2	4.2	5.0	5.0	6.7	8.4	10.0	10.9	10.9
5°	3.3	3.3	3.3	3.3	3.3	4.2	5.0	6.7	9.2	10.0	10.0
7.5°	2.5	2.5	2.5	2.5	2.5	2.5	4.2	5.8	8.4	9.2	10.0
10°	2.5	1.7	1.7	0.8	0.8	1.7	2.5	5.0	7.5	8.4	9.2
12.5°	1.7	0.8	0.8	0.0	0.0	0.8	1.7	4.2	6.7	7.5	8.4
15°	0.8	0.0	0.0	0.0	0.0	0.0	0.8	3.3	5.8	6.7	8.4
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.0	6.7	7.5
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	4.2	5.8	6.7
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	3.3	5.0	5.8
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	3.3	4.2
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	2.5	3.3
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	2.5	3.3
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.7	2.5
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.7	2.5
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.7	1.7
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.7
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.7
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.7
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.7
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.7
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
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°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
2.5°	11.7	11.7	10.9	10.0	10.0	10.0	10.9	11.7	11.7	11.7
5°	10.9	10.9	10.0	10.0	10.0	10.0	10.9	12.5	13.4	13.4
7.5°	10.9	10.9	10.0	10.0	10.0	10.0	10.9	12.5	13.4	14.2
10°	10.0	10.0	10.0	10.0	9.2	10.0	10.9	12.5	15.0	15.0
12.5°	10.0	10.0	10.0	10.0	9.2	10.0	11.7	13.4	15.9	16.7
15°	10.0	10.0	10.0	9.2	9.2	10.0	11.7	14.2	16.7	18.4
17.5°	9.2	10.0	10.0	9.2	9.2	10.0	11.7	14.2	18.4	20.9
20°	8.4	9.2	10.0	9.2	9.2	9.2	11.7	14.2	19.2	22.6
22.5°	7.5	8.4	9.2	9.2	8.4	9.2	11.7	15.0	20.9	25.1
25°	6.7	7.5	7.5	8.4	8.4	9.2	11.7	15.0	21.7	28.4
27.5°	5.0	5.8	6.7	7.5	7.5	9.2	11.7	15.9	23.4	35.1
30°	4.2	5.0	5.8	6.7	7.5	9.2	11.7	15.9	25.1	44.3
32.5°	4.2	5.0	5.8	6.7	7.5	8.4	11.7	16.7	27.6	55.1
35°	3.3	4.2	5.0	6.7	6.7	8.4	11.7	16.7	30.1	71.9
37.5°	3.3	4.2	5.0	6.7	6.7	8.4	11.7	16.7	36.8	80.2
40°	2.5	3.3	4.2	6.7	6.7	8.4	12.5	17.5	37.6	81.0
42.5°	2.5	3.3	4.2	5.8	6.7	8.4	12.5	17.5	35.1	83.6
45°	2.5	3.3	4.2	6.7	7.5	9.2	12.5	18.4	34.3	95.3
47.5°	2.5	3.3	4.2	6.7	8.4	9.2	12.5	18.4	35.1	136.2
50°	2.5	3.3	4.2	6.7	9.2	9.2	12.5	18.4	38.4	218.9
52.5°	1.7	2.5	3.3	5.8	7.5	10.0	13.4	17.5	40.9	292.4
55°	1.7	1.7	2.5	5.0	6.7	10.9	14.2	17.5	47.6	310.8
57.5°	1.7	1.7	2.5	4.2	5.8	11.7	15.0	17.5	55.1	301.6
59°	1.7	1.7	1.7	4.2	5.0	11.7	15.0	18.4	56.0	285.8
60°	1.7	1.7	1.7	3.3	5.0	11.7	15.9	19.2	56.8	267.4
62.5°	0.8	0.8	0.8	3.3	4.2	11.7	17.5	23.4	58.5	206.4
65°	1.7	1.7	0.8	2.5	4.2	10.0	20.1	25.1	59.3	160.4
67.5°	1.7	1.7	1.7	3.3	4.2	10.0	20.9	25.9	59.3	127.0
70°	1.7	1.7	1.7	3.3	5.0	10.0	20.9	26.7	58.5	103.6
72.5°	1.7	1.7	1.7	3.3	5.0	9.2	19.2	27.6	56.0	87.7
75°	1.7	1.7	1.7	2.5	4.2	8.4	18.4	30.1	51.0	74.4
77.5°	1.7	1.7	1.7	1.7	3.3	6.7	16.7	33.4	45.1	60.2
80°	2.5	1.7	1.7	1.7	2.5	5.8	15.9	32.6	37.6	39.3
82.5°	2.5	1.7	1.7	0.8	1.7	4.2	12.5	25.1	19.2	17.5
85°	1.7	1.7	1.7	0.8	0.8	2.5	5.8	7.5	5.8	4.2
87.5°	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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

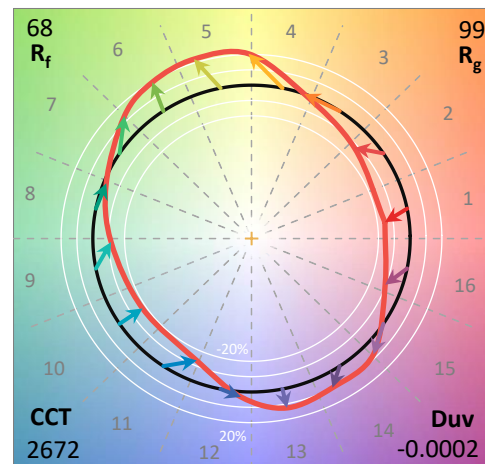
Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

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

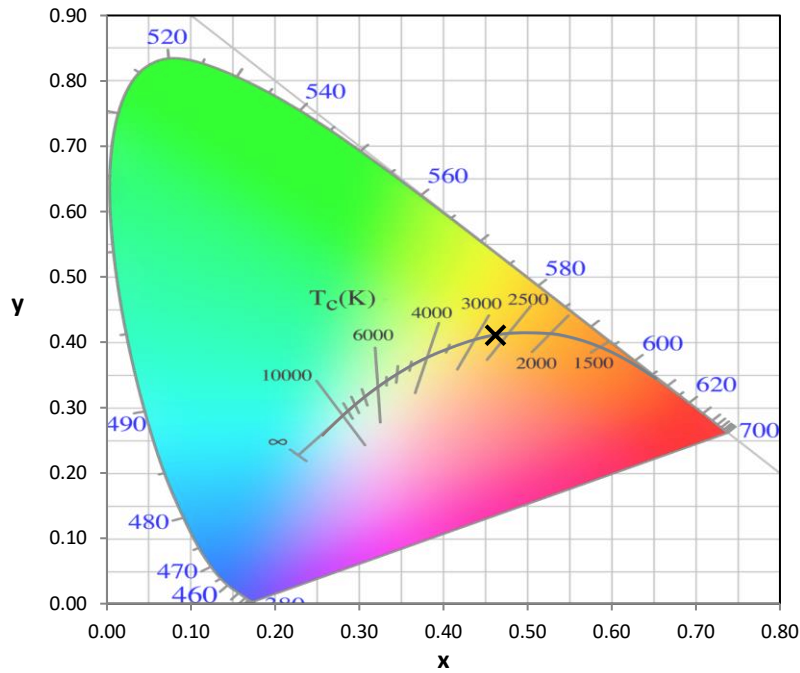
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-3

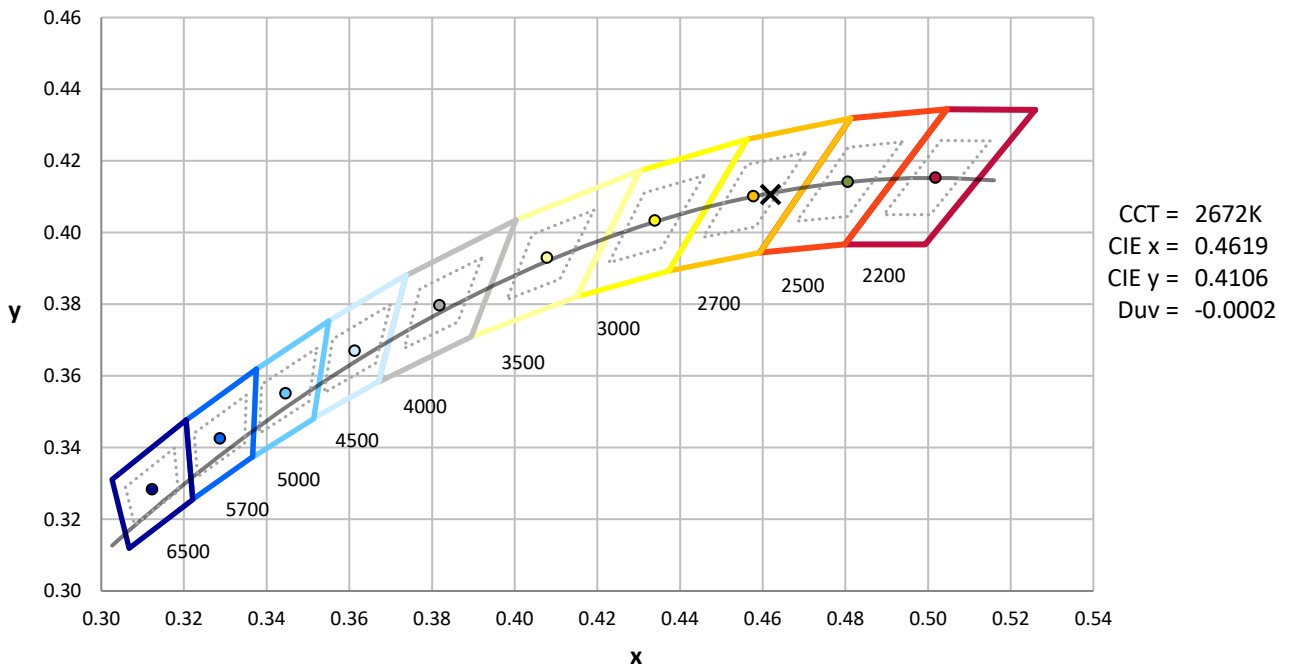
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



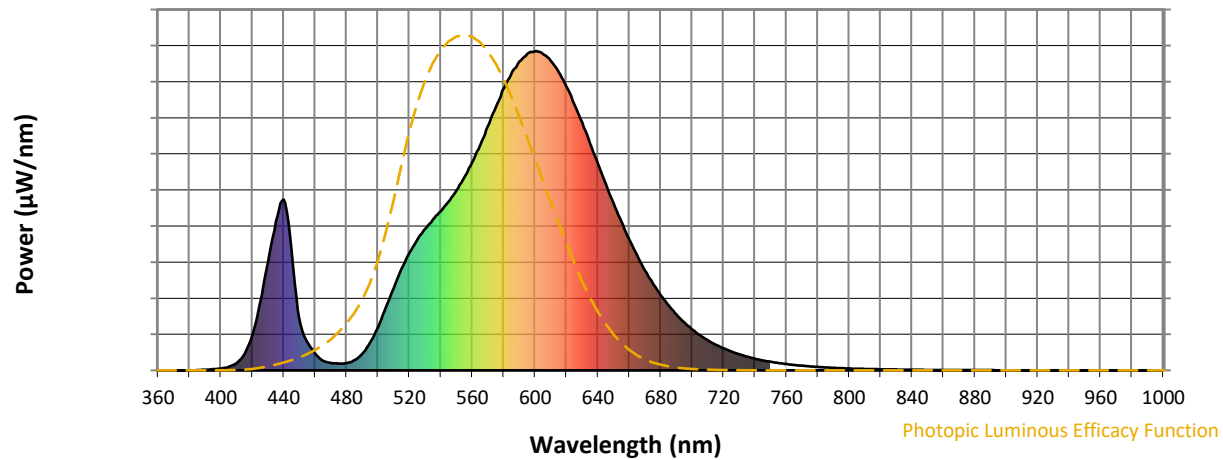
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-3

Photopic Flux vs. Wavelength

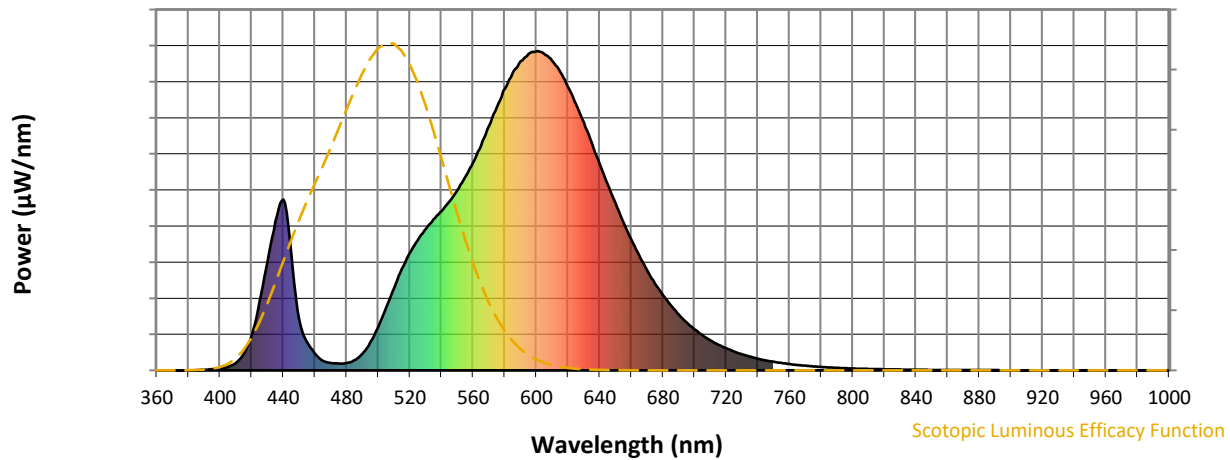


Photopic Lumens: NR

λ (nm)	Power W/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

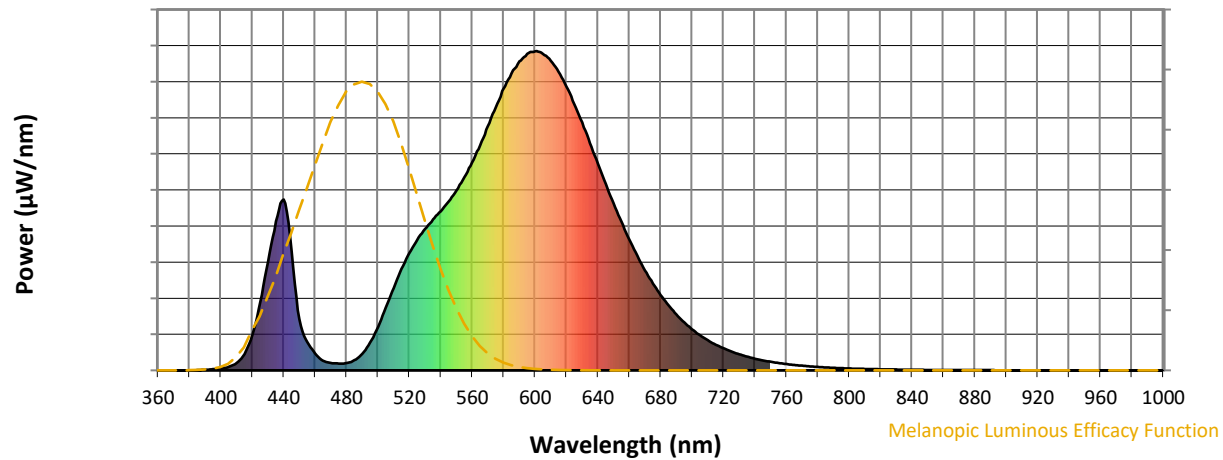
Scotopic Flux vs. Wavelength


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			

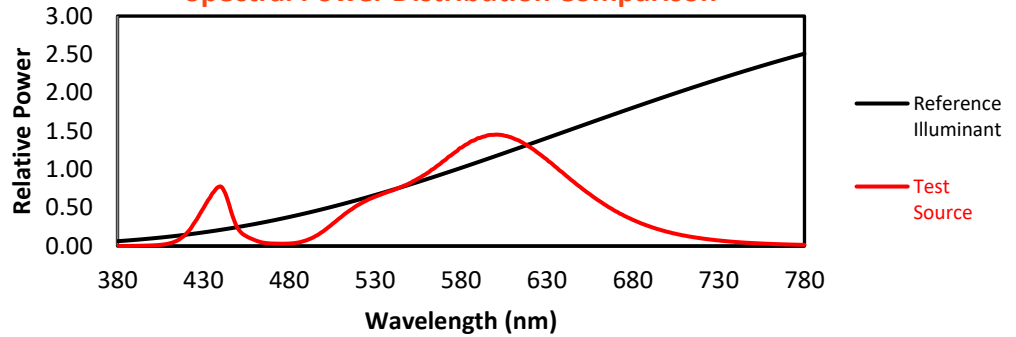
REPORT NUMBER: SP1-2407-184-3

TM-30-18

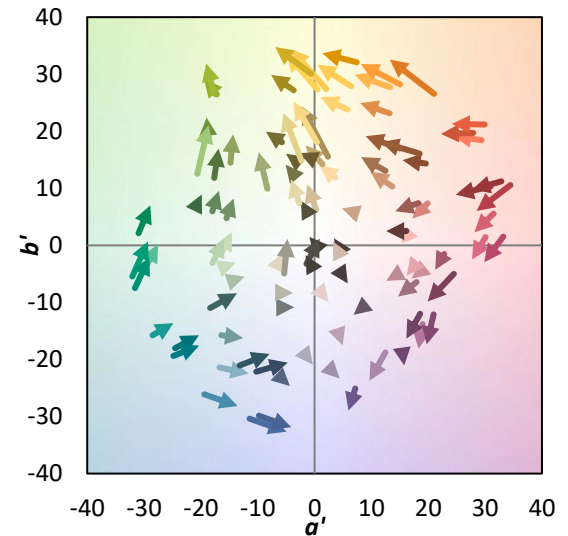
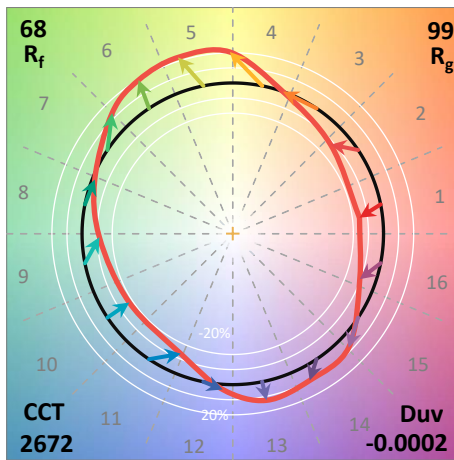
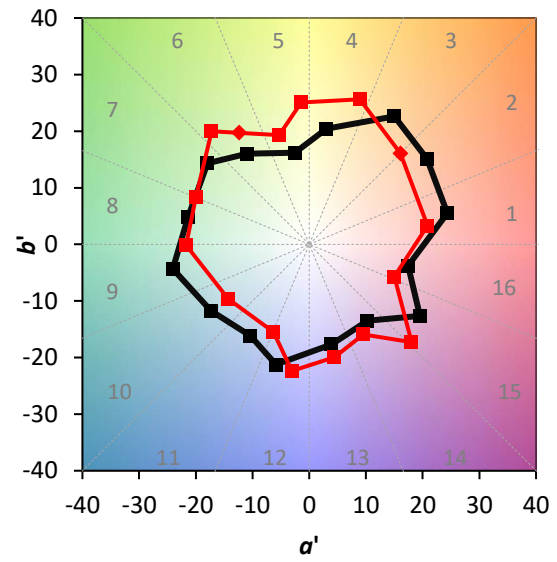
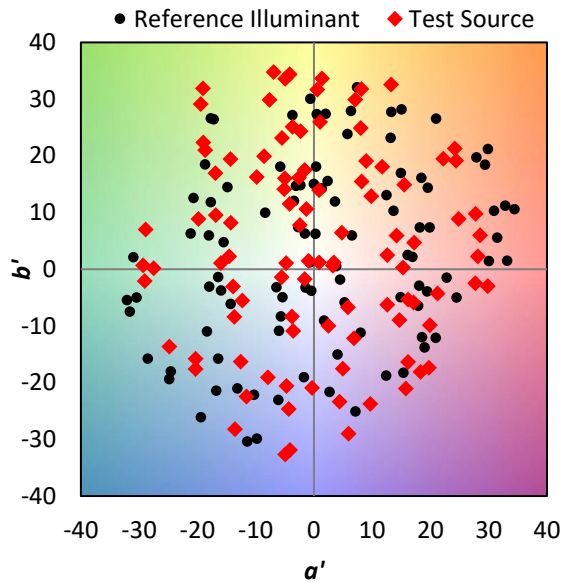
Summary

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

Spectral Power Distribution Comparison

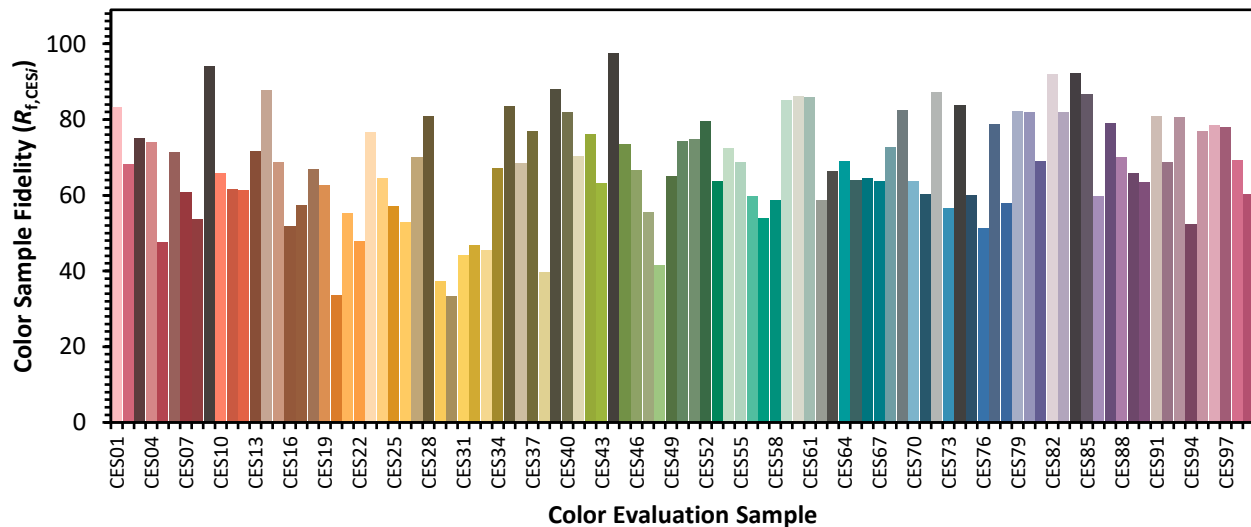


Color Vector Graphics

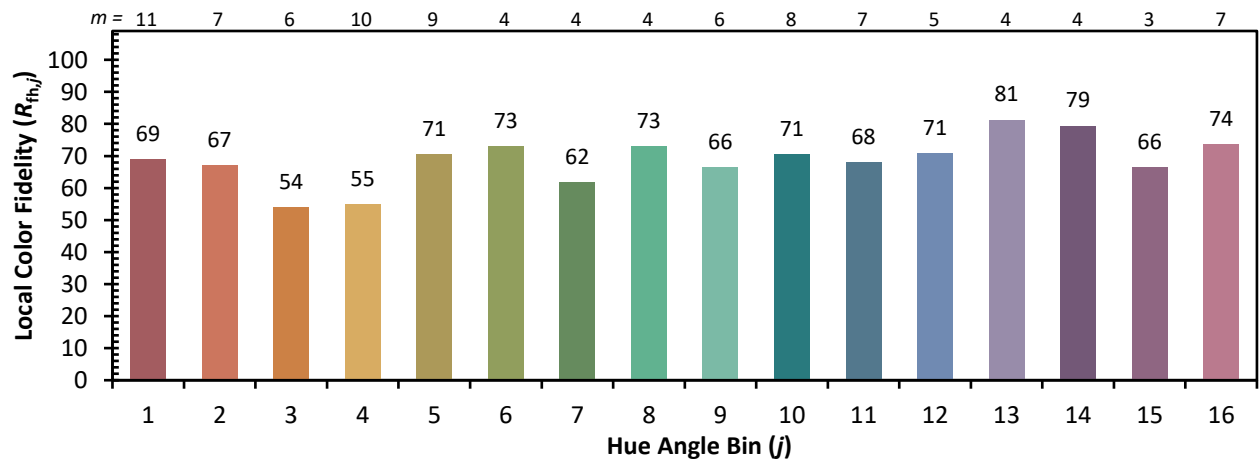
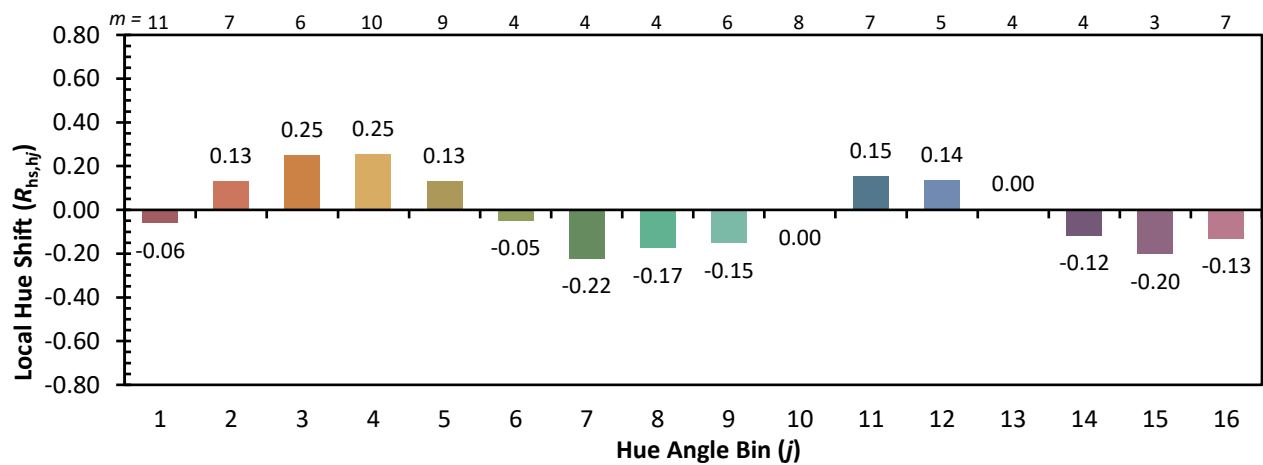
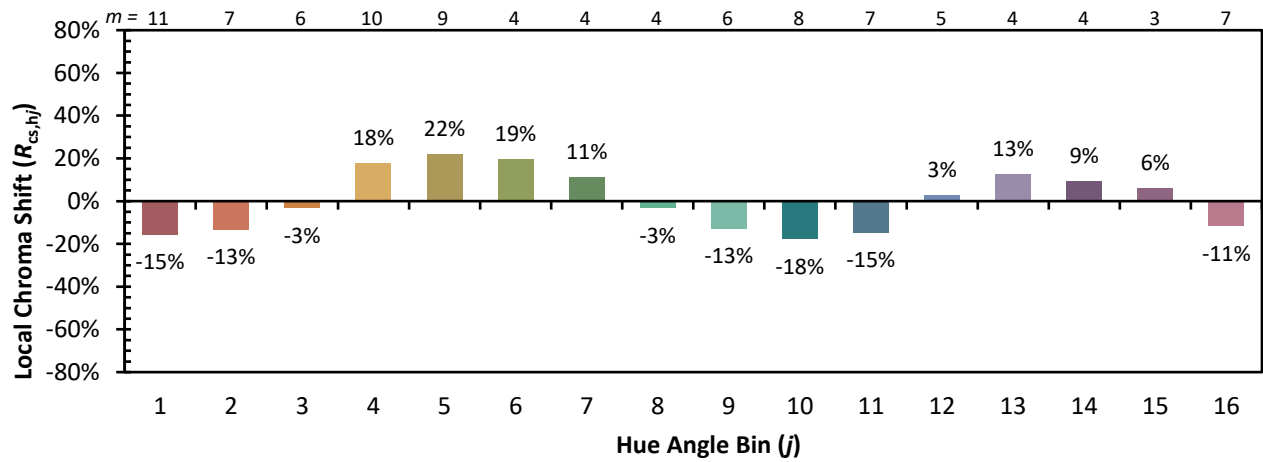


Individual Sample Fidelity Index ($R_{f,i}$)

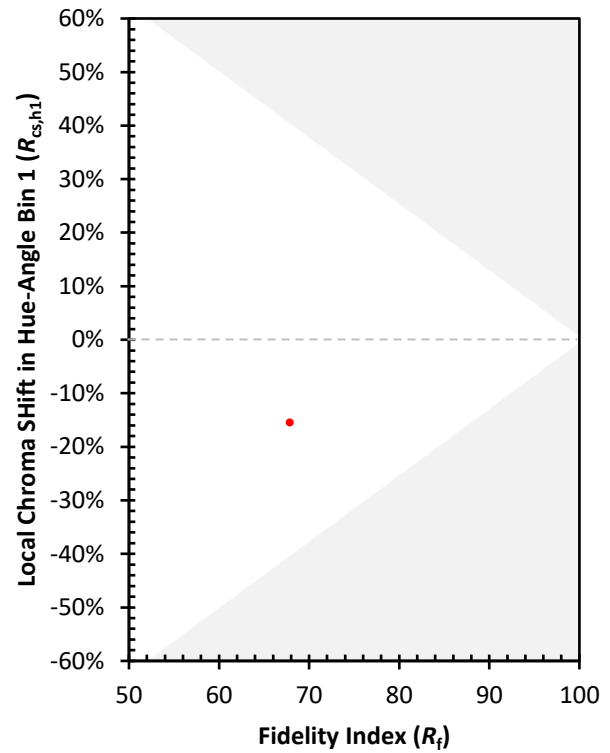
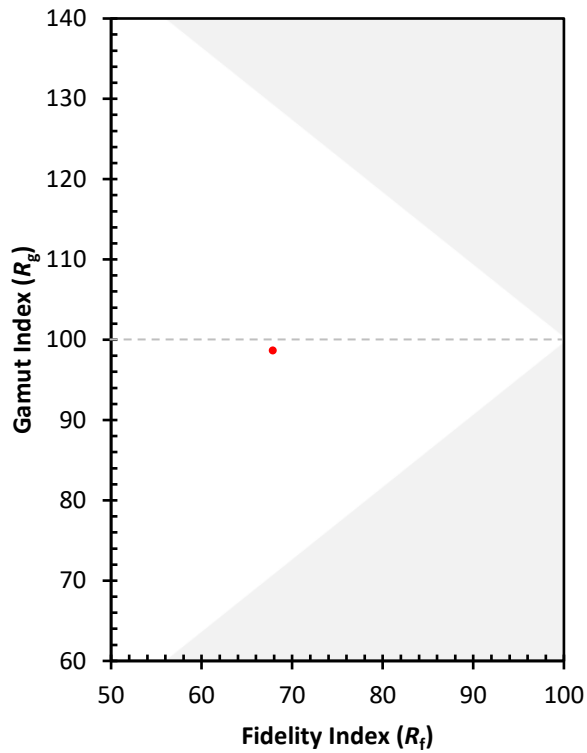
CES01 = 86	CES26 = 53	CES51 = 75	CES76 = 51
CES02 = 63	CES27 = 70	CES52 = 80	CES77 = 79
CES03 = 31	CES28 = 81	CES53 = 64	CES78 = 58
CES04 = 71	CES29 = 37	CES54 = 73	CES79 = 82
CES05 = 50	CES30 = 33	CES55 = 69	CES80 = 82
CES06 = 52	CES31 = 44	CES56 = 60	CES81 = 69
CES07 = 42	CES32 = 47	CES57 = 54	CES82 = 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)