

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: P1067933

Luminaire Tested: **NAV-SA5A-727-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067933
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA5A-727-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 5xLight Square PACKAGE
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12806 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 137.4
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



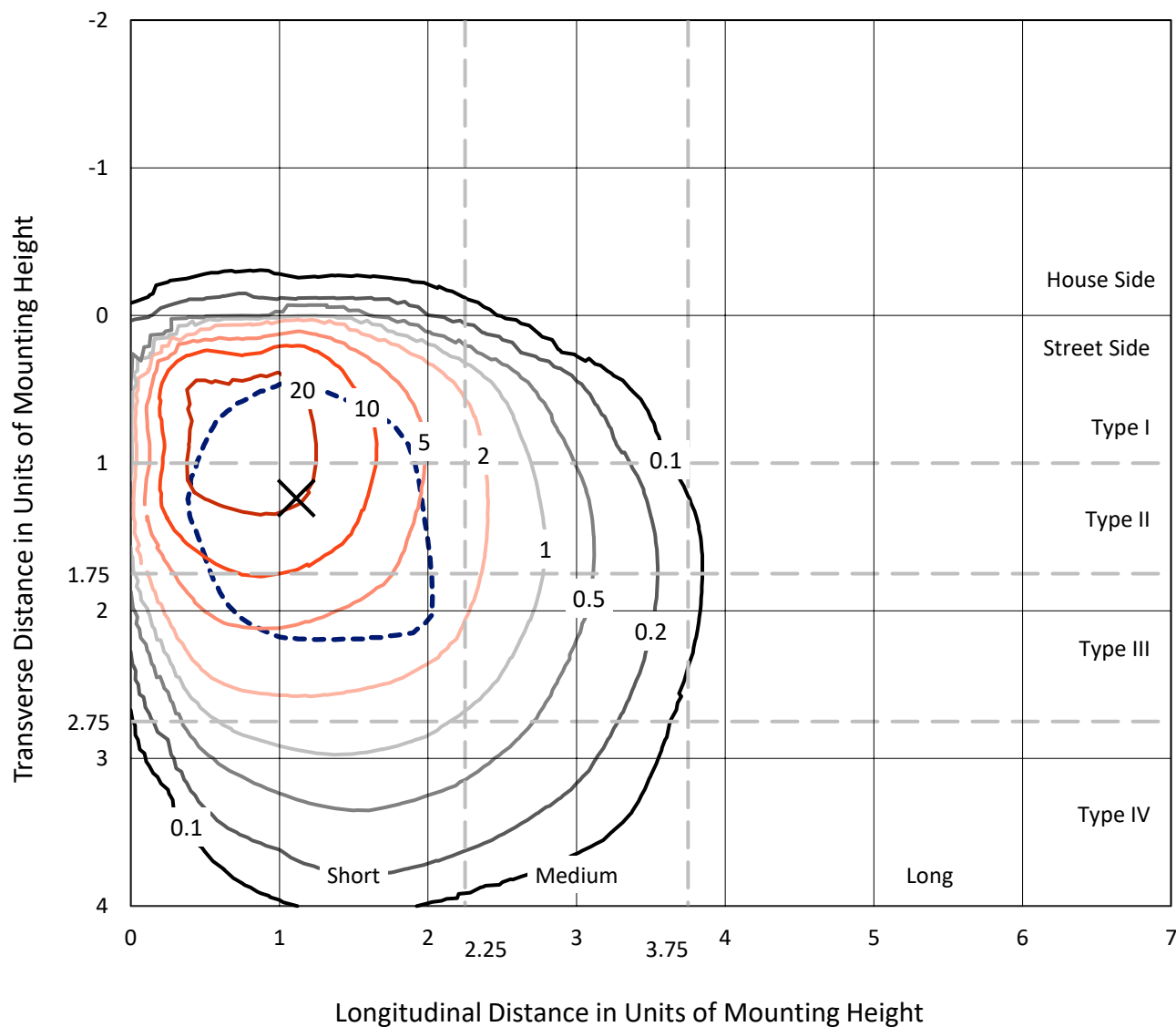
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

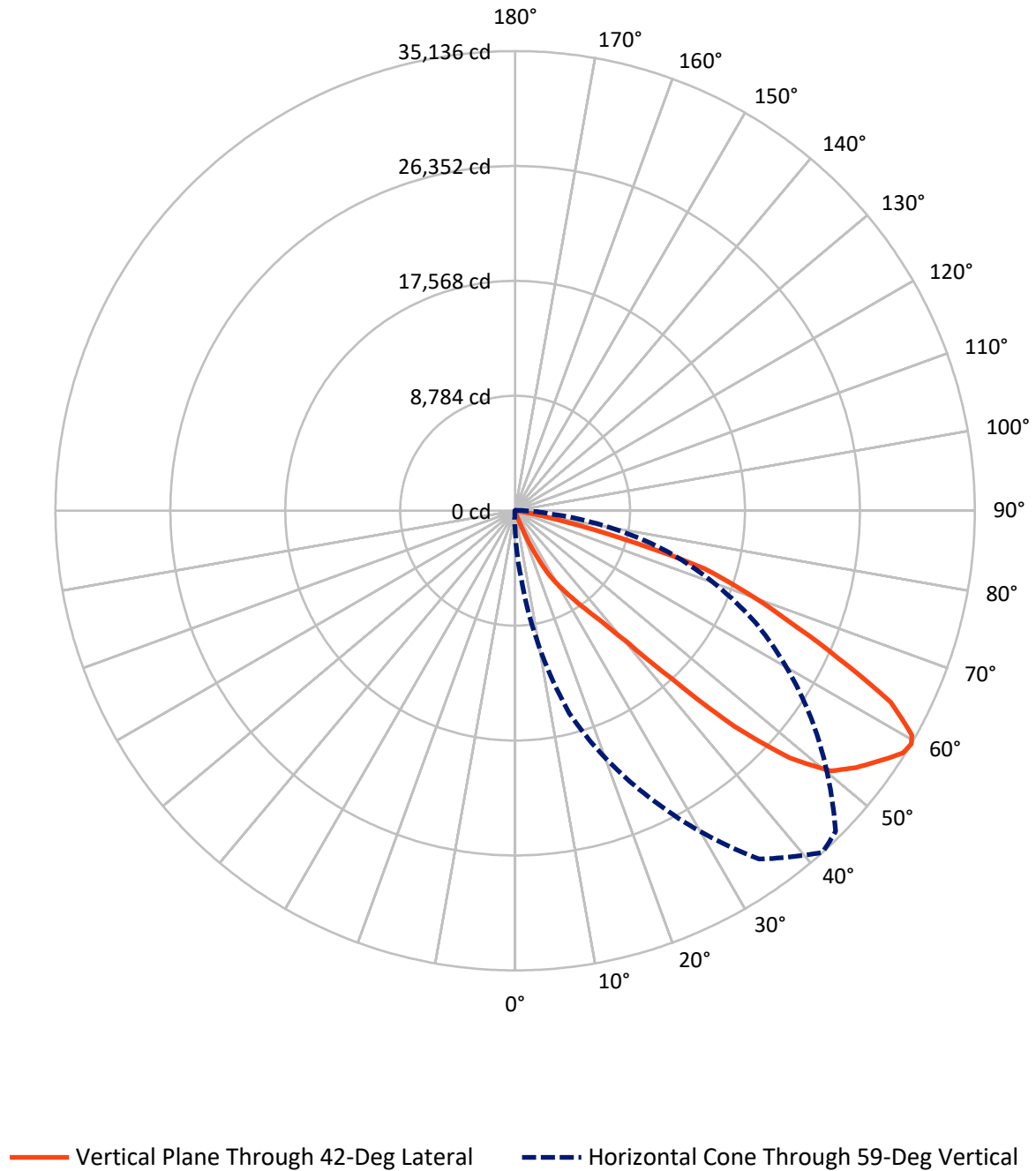


Based on 15 foot mounting height. Maximum calculated value = 38 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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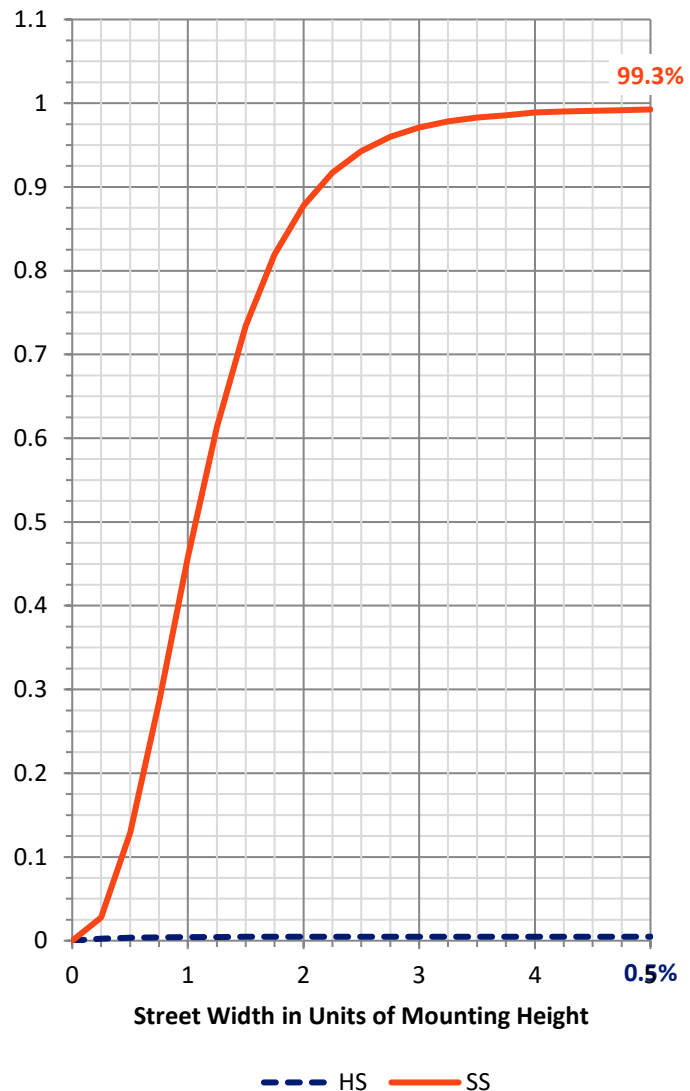
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	61.7	0.0	61.7
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	12744.3	0.0	12744.3
	% Fixture	99.5	0.0	99.5
Total	Lumens	12806.0	0.0	12806.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.7	0.0
10°-20°	18.7	0.1
20°-30°	238.9	1.9
30°-40°	805.3	6.3
40°-50°	2432.5	19.0
50°-60°	4293.9	33.5
60°-70°	3780.8	29.5
70°-80°	1203.4	9.4
80°-90°	28.8	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°	12806.0	100.0
0°-180°	12806.0	100.0



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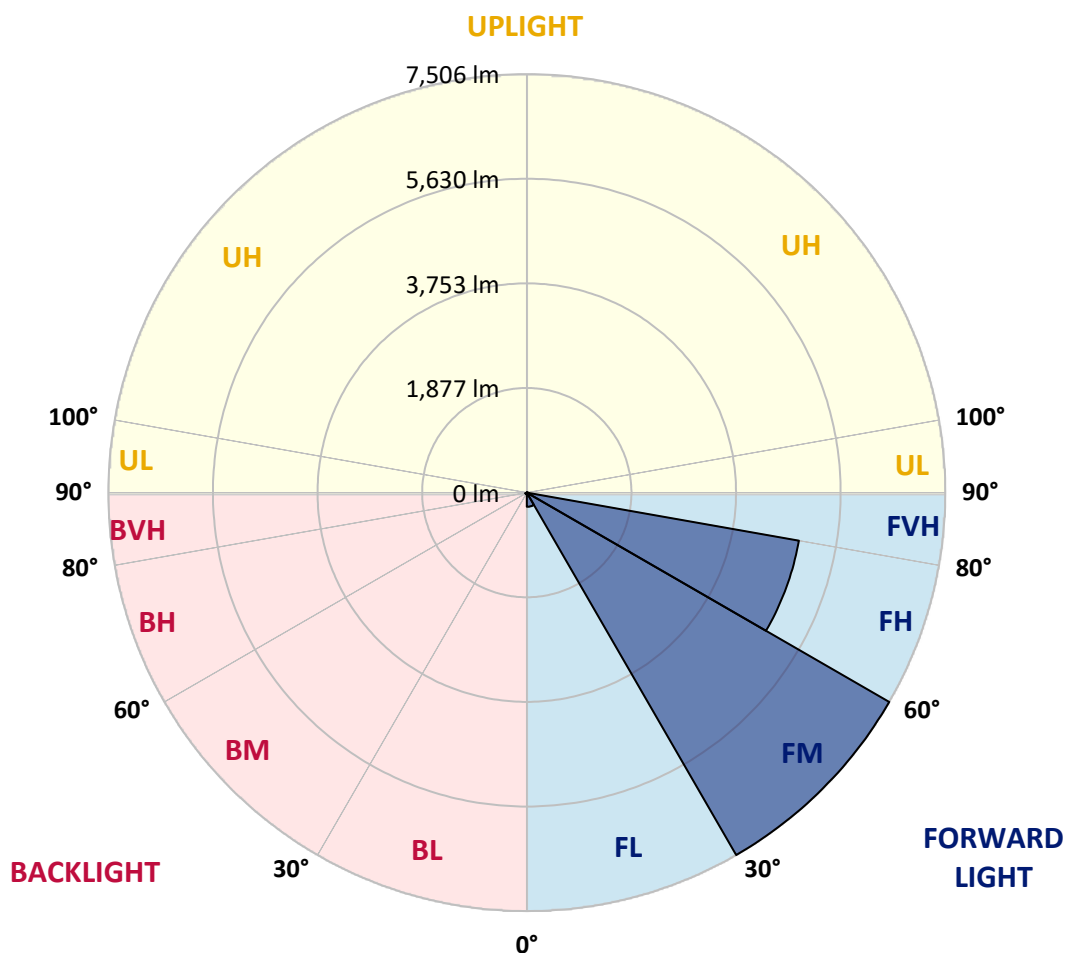
CATALOG NUMBER: NAV-SA5A-727-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	254.4	2.0			
FM	(30°-60°)	7506.5	58.6			
FH	(60°-80°)	4956.0	38.7			G2/5000
FVH	(80°-90°)	27.4	0.2			G1/100
BL	(0°-30°)	6.9	0.1	B0/110		
BM	(30°-60°)	25.2	0.2	B0/220		
BH	(60°-80°)	28.2	0.2	B0/110		G0/110
BVH	(80°-90°)	1.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
2.5°	56.2	56.2	52.2	48.2	44.2	40.2	40.2	40.2	36.1	36.1	32.1
5°	64.2	64.2	60.2	56.2	56.2	52.2	52.2	48.2	44.2	44.2	40.2
7.5°	68.3	68.3	68.3	68.3	64.2	64.2	64.2	60.2	56.2	52.2	48.2
10°	72.3	76.3	80.3	80.3	80.3	80.3	80.3	76.3	68.3	64.2	56.2
12.5°	80.3	84.3	92.3	100.4	100.4	104.4	100.4	96.4	88.3	76.3	64.2
15°	88.3	96.4	108.4	124.5	140.5	144.5	144.5	132.5	116.4	92.3	76.3
17.5°	100.4	112.4	144.5	196.7	253.0	297.1	297.1	265.0	184.7	120.5	88.3
20°	108.4	132.5	232.9	473.8	722.7	907.4	871.3	770.9	413.6	188.7	96.4
22.5°	120.5	168.6	493.9	1244.7	1927.3	2264.5	2184.2	1658.2	927.5	337.3	116.4
25°	136.5	244.9	979.7	2332.8	3581.5	3946.9	3894.7	3095.7	1690.4	566.1	148.6
27.5°	168.6	361.4	1569.9	3537.3	5283.9	5597.1	5577.0	4533.1	2702.2	911.4	192.7
30°	212.8	526.0	2328.8	4806.1	6412.1	6729.3	6629.0	5585.0	3645.7	1393.2	248.9
32.5°	265.0	734.8	3015.4	5741.6	7452.1	7869.6	7749.2	6500.5	4404.6	1802.8	369.4
35°	345.3	939.5	3693.9	6568.7	8652.6	9182.6	8981.8	7444.0	5059.0	2264.5	445.7
37.5°	385.5	1060.0	4316.3	7468.1	10001.7	10724.4	10571.8	8636.5	5725.6	2854.7	546.1
40°	389.5	1204.5	4962.7	8640.5	11908.8	13197.7	12924.7	10684.2	6966.2	3613.6	702.6
42.5°	401.5	1421.4	5801.8	10640.1	15654.9	17505.9	17196.7	14450.4	9780.8	5135.3	995.7
45°	457.7	1830.9	7512.3	14378.1	20798.3	23512.5	23155.2	19698.2	13711.6	7998.1	1698.4
47.5°	654.5	2754.4	10511.6	18413.3	26058.1	28222.3	28133.9	23833.7	17273.0	10933.2	2878.8
50°	1052.0	4227.9	13924.4	21806.1	29406.7	31265.7	31044.9	25560.2	19304.7	12936.7	3689.9
52.5°	1405.3	5637.2	16068.5	23054.8	30406.5	32622.8	32353.8	26190.6	19838.7	13526.9	3914.7
55°	1493.6	6147.1	16706.9	23440.3	31069.0	33771.2	33381.7	26612.2	19907.0	13105.3	3541.3
57.5°	1449.5	5665.3	16293.3	23817.7	31992.5	34951.6	34433.6	27435.3	20135.8	12390.7	2947.1
59°	1373.2	5071.1	16036.4	24118.8	32502.4	35136.3	34650.5	27616.0	20288.4	12065.4	2585.7
60°	1284.8	4669.6	15835.6	24315.6	32470.3	34847.2	34345.3	27531.7	20348.6	11784.4	2413.1
62.5°	991.7	3726.0	15546.5	24175.0	30442.6	32209.3	31924.2	25467.9	19465.3	10885.0	1903.2
65°	770.9	2850.7	14486.5	21561.2	25905.5	27094.0	27005.7	21565.2	16381.7	9383.3	1373.2
67.5°	610.3	2079.8	12250.1	17461.7	20842.5	22532.8	22468.6	17505.9	12434.8	7171.0	987.7
70°	497.9	1481.6	8399.6	13165.6	16670.8	18798.8	18706.4	14089.0	9214.7	4549.1	718.7
72.5°	421.6	947.6	5095.2	9925.4	13912.4	15129.0	14859.9	11366.8	6701.2	2477.3	570.1
75°	357.3	582.2	2525.5	6187.3	8287.2	8279.2	8010.2	6018.7	3597.5	1212.6	453.7
77.5°	289.1	409.5	991.7	1698.4	2613.8	3236.2	3184.0	2132.0	1076.1	353.3	281.1
80°	188.7	192.7	265.0	465.8	718.7	795.0	903.4	650.4	313.2	168.6	116.4
82.5°	84.3	92.3	120.5	152.6	152.6	140.5	124.5	92.3	68.3	56.2	28.1
85°	20.1	28.1	20.1	24.1	20.1	16.1	16.1	8.0	0.0	0.0	0.0
87.5°	4.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
2.5°	32.1	32.1	32.1	28.1	28.1	28.1	24.1	24.1	24.1	20.1	20.1
5°	40.2	36.1	32.1	32.1	28.1	28.1	24.1	20.1	20.1	20.1	16.1
7.5°	44.2	40.2	36.1	32.1	28.1	24.1	24.1	20.1	16.1	16.1	16.1
10°	52.2	48.2	40.2	32.1	28.1	24.1	20.1	20.1	16.1	12.0	12.0
12.5°	60.2	52.2	44.2	36.1	28.1	24.1	20.1	20.1	16.1	12.0	8.0
15°	68.3	60.2	48.2	36.1	28.1	24.1	20.1	20.1	12.0	8.0	4.0
17.5°	76.3	64.2	48.2	40.2	28.1	24.1	20.1	16.1	8.0	4.0	0.0
20°	80.3	68.3	52.2	40.2	28.1	24.1	20.1	12.0	4.0	0.0	0.0
22.5°	88.3	76.3	56.2	40.2	28.1	20.1	12.0	4.0	0.0	0.0	0.0
25°	104.4	80.3	56.2	40.2	28.1	20.1	8.0	0.0	0.0	0.0	0.0
27.5°	116.4	88.3	56.2	40.2	28.1	16.1	4.0	0.0	0.0	0.0	0.0
30°	136.5	96.4	60.2	40.2	28.1	12.0	4.0	0.0	0.0	0.0	0.0
32.5°	168.6	104.4	60.2	40.2	24.1	12.0	0.0	0.0	0.0	0.0	0.0
35°	204.8	120.5	60.2	40.2	24.1	12.0	0.0	0.0	0.0	0.0	0.0
37.5°	208.8	128.5	60.2	40.2	24.1	8.0	0.0	0.0	0.0	0.0	0.0
40°	216.8	120.5	64.2	40.2	24.1	8.0	0.0	0.0	0.0	0.0	0.0
42.5°	248.9	112.4	68.3	40.2	24.1	8.0	0.0	0.0	0.0	0.0	0.0
45°	369.4	116.4	68.3	44.2	24.1	12.0	0.0	0.0	0.0	0.0	0.0
47.5°	642.4	120.5	64.2	44.2	24.1	12.0	0.0	0.0	0.0	0.0	0.0
50°	823.1	140.5	64.2	48.2	28.1	8.0	0.0	0.0	0.0	0.0	0.0
52.5°	875.3	164.6	64.2	52.2	36.1	4.0	0.0	0.0	0.0	0.0	0.0
55°	851.2	192.7	68.3	56.2	44.2	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	787.0	208.8	72.3	60.2	48.2	0.0	0.0	0.0	0.0	0.0	0.0
59°	718.7	220.8	84.3	64.2	48.2	0.0	0.0	0.0	0.0	0.0	0.0
60°	662.5	232.9	88.3	68.3	48.2	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	534.0	248.9	96.4	80.3	40.2	0.0	0.0	0.0	0.0	0.0	0.0
65°	465.8	261.0	100.4	88.3	36.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	425.6	269.0	108.4	92.3	32.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	393.5	265.0	116.4	88.3	28.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	357.3	253.0	140.5	80.3	24.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	321.2	228.9	152.6	72.3	16.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	232.9	192.7	140.5	64.2	8.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	100.4	104.4	100.4	48.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	20.1	24.1	20.1	12.0	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°	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
2.5°	20.1	20.1	20.1	20.1	24.1	24.1	32.1	40.2	48.2	52.2	52.2
5°	16.1	16.1	16.1	16.1	16.1	20.1	24.1	32.1	44.2	48.2	48.2
7.5°	12.0	12.0	12.0	12.0	12.0	12.0	20.1	28.1	40.2	44.2	48.2
10°	12.0	8.0	8.0	4.0	4.0	8.0	12.0	24.1	36.1	40.2	44.2
12.5°	8.0	4.0	4.0	0.0	0.0	4.0	8.0	20.1	32.1	36.1	40.2
15°	4.0	0.0	0.0	0.0	0.0	0.0	4.0	16.1	28.1	32.1	40.2
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	24.1	32.1	36.1
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	20.1	28.1	32.1
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	16.1	24.1	28.1
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	16.1	20.1
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	12.0	16.1
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	12.0	16.1
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	8.0	12.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	8.0	12.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	8.0	8.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	8.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	8.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	8.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	8.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	8.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	8.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	8.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.0
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):

	285°	295°	305°	315°	318°	325°	335°	345°	355°	360°
0°	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
2.5°	56.2	56.2	52.2	48.2	48.2	48.2	52.2	56.2	56.2	56.2
5°	52.2	52.2	48.2	48.2	48.2	48.2	52.2	60.2	64.2	64.2
7.5°	52.2	52.2	48.2	48.2	48.2	48.2	52.2	60.2	64.2	68.3
10°	48.2	48.2	48.2	48.2	44.2	48.2	52.2	60.2	72.3	72.3
12.5°	48.2	48.2	48.2	48.2	44.2	48.2	56.2	64.2	76.3	80.3
15°	48.2	48.2	48.2	44.2	44.2	48.2	56.2	68.3	80.3	88.3
17.5°	44.2	48.2	48.2	44.2	44.2	48.2	56.2	68.3	88.3	100.4
20°	40.2	44.2	48.2	44.2	44.2	44.2	56.2	68.3	92.3	108.4
22.5°	36.1	40.2	44.2	44.2	40.2	44.2	56.2	72.3	100.4	120.5
25°	32.1	36.1	36.1	40.2	40.2	44.2	56.2	72.3	104.4	136.5
27.5°	24.1	28.1	32.1	36.1	36.1	44.2	56.2	76.3	112.4	168.6
30°	20.1	24.1	28.1	32.1	36.1	44.2	56.2	76.3	120.5	212.8
32.5°	20.1	24.1	28.1	32.1	36.1	40.2	56.2	80.3	132.5	265.0
35°	16.1	20.1	24.1	32.1	32.1	40.2	56.2	80.3	144.5	345.3
37.5°	16.1	20.1	24.1	32.1	32.1	40.2	56.2	80.3	176.7	385.5
40°	12.0	16.1	20.1	32.1	32.1	40.2	60.2	84.3	180.7	389.5
42.5°	12.0	16.1	20.1	28.1	32.1	40.2	60.2	84.3	168.6	401.5
45°	12.0	16.1	20.1	32.1	36.1	44.2	60.2	88.3	164.6	457.7
47.5°	12.0	16.1	20.1	32.1	40.2	44.2	60.2	88.3	168.6	654.5
50°	12.0	16.1	20.1	32.1	44.2	44.2	60.2	88.3	184.7	1052.0
52.5°	8.0	12.0	16.1	28.1	36.1	48.2	64.2	84.3	196.7	1405.3
55°	8.0	8.0	12.0	24.1	32.1	52.2	68.3	84.3	228.9	1493.6
57.5°	8.0	8.0	12.0	20.1	28.1	56.2	72.3	84.3	265.0	1449.5
59°	8.0	8.0	8.0	20.1	24.1	56.2	72.3	88.3	269.0	1373.2
60°	8.0	8.0	8.0	16.1	24.1	56.2	76.3	92.3	273.0	1284.8
62.5°	4.0	4.0	4.0	16.1	20.1	56.2	84.3	112.4	281.1	991.7
65°	8.0	8.0	4.0	12.0	20.1	48.2	96.4	120.5	285.1	770.9
67.5°	8.0	8.0	8.0	16.1	20.1	48.2	100.4	124.5	285.1	610.3
70°	8.0	8.0	8.0	16.1	24.1	48.2	100.4	128.5	281.1	497.9
72.5°	8.0	8.0	8.0	16.1	24.1	44.2	92.3	132.5	269.0	421.6
75°	8.0	8.0	8.0	12.0	20.1	40.2	88.3	144.5	244.9	357.3
77.5°	8.0	8.0	8.0	8.0	16.1	32.1	80.3	160.6	216.8	289.1
80°	12.0	8.0	8.0	8.0	12.0	28.1	76.3	156.6	180.7	188.7
82.5°	12.0	8.0	8.0	4.0	8.0	20.1	60.2	120.5	92.3	84.3
85°	8.0	8.0	8.0	4.0	4.0	12.0	28.1	36.1	28.1	20.1
87.5°	8.0	8.0	8.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
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

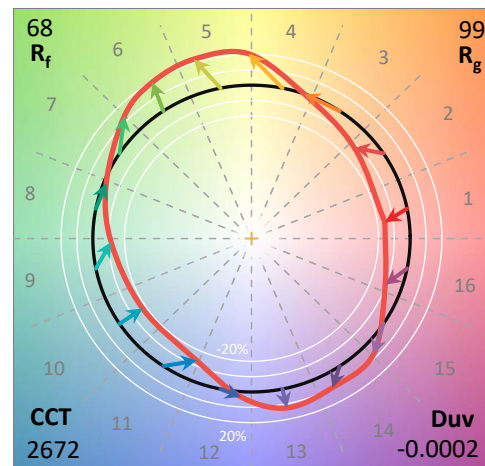
Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

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

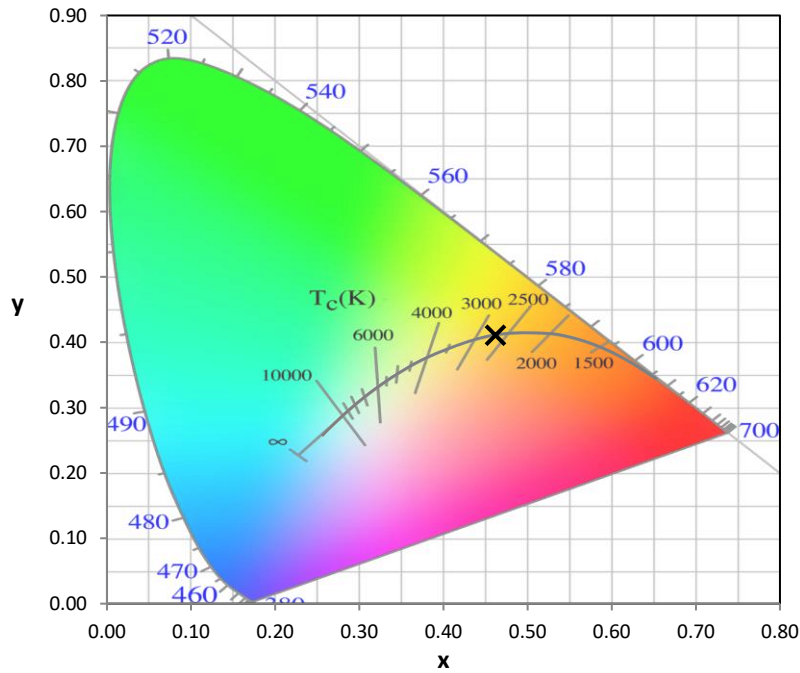
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-3

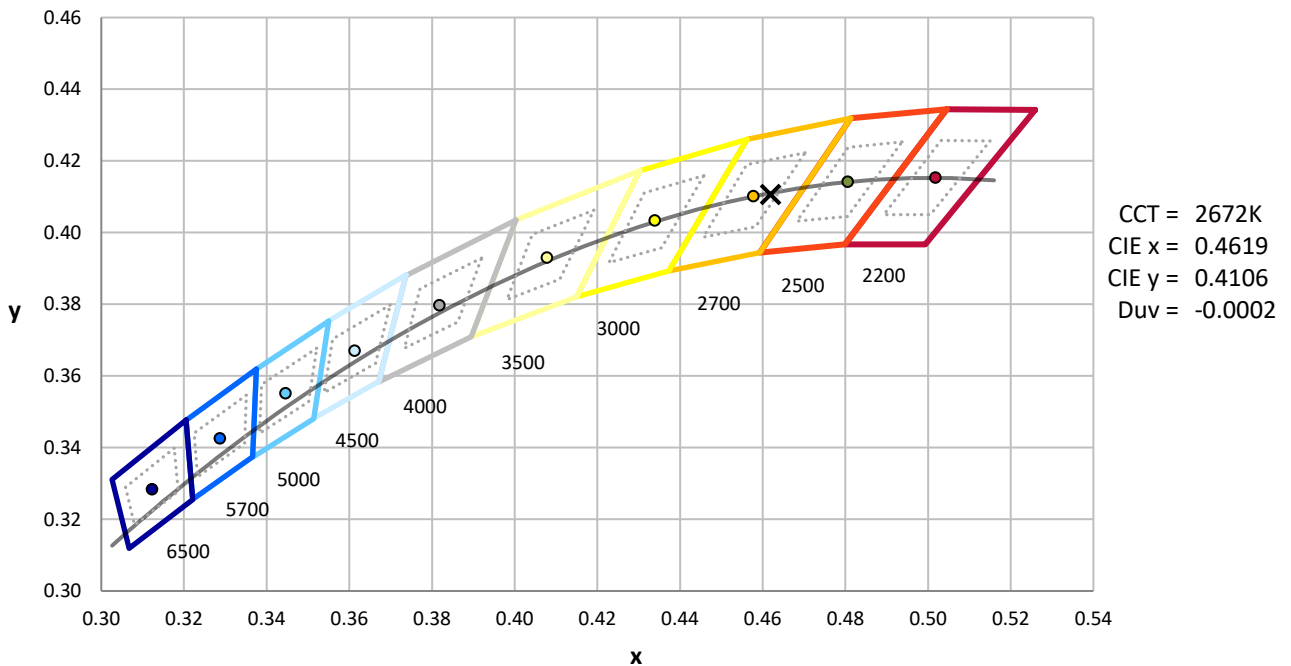
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-3

CIE 1931 Chromaticity Diagram

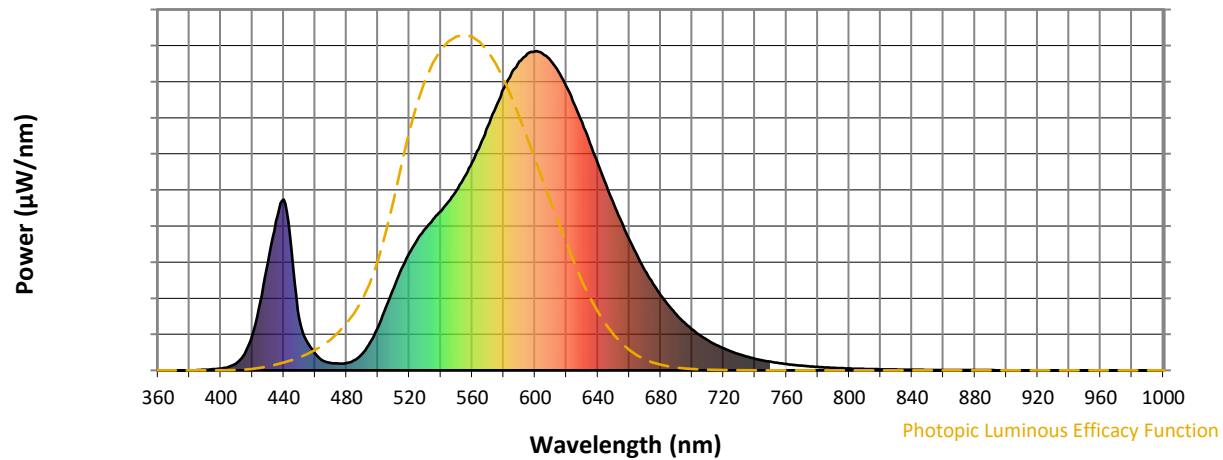


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



REPORT NUMBER: SP1-2407-184-3

Photopic Flux vs. Wavelength

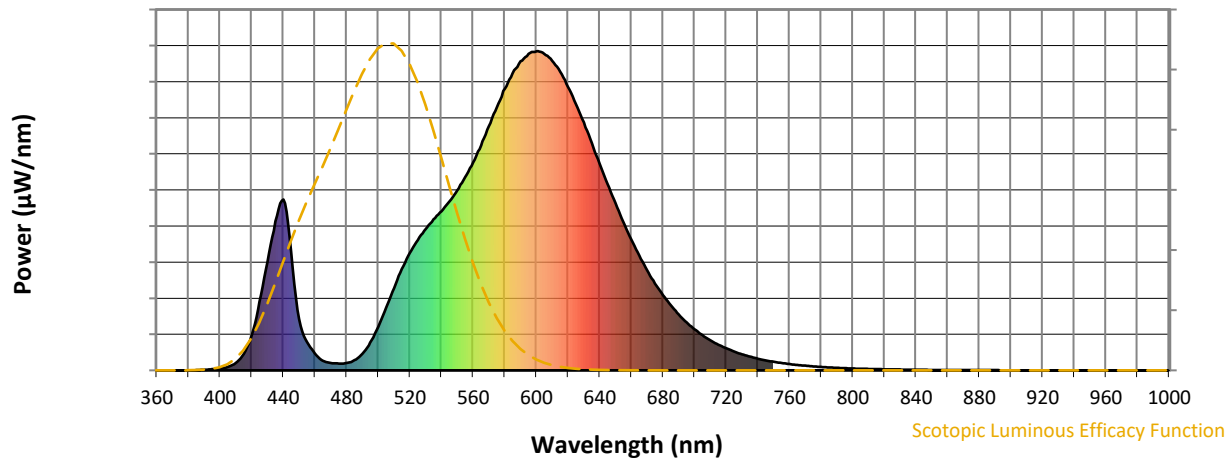


Photopic Lumens: NR

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

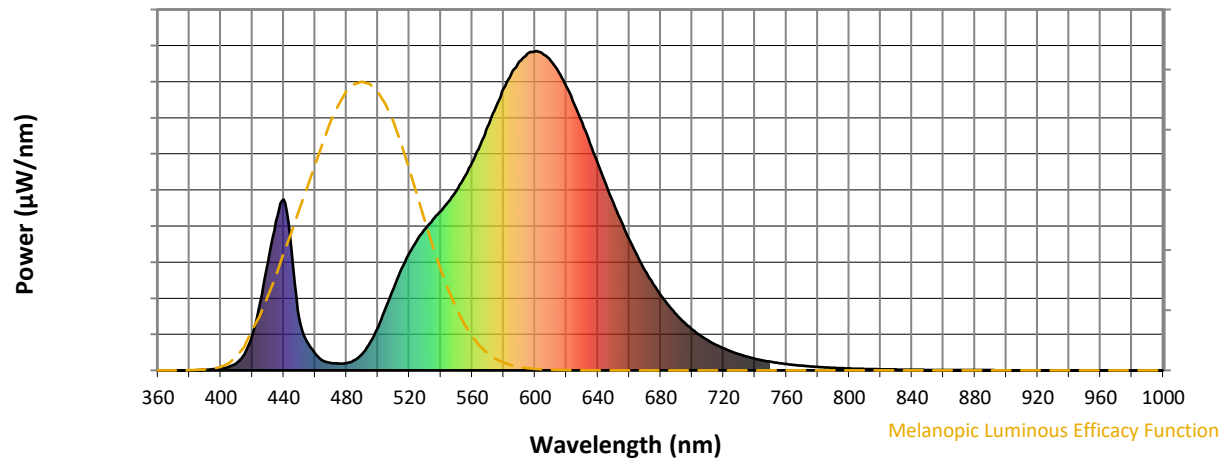
Scotopic Flux vs. Wavelength


Scotopic Lumens: NR
S/P: 1.02

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 1.71

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

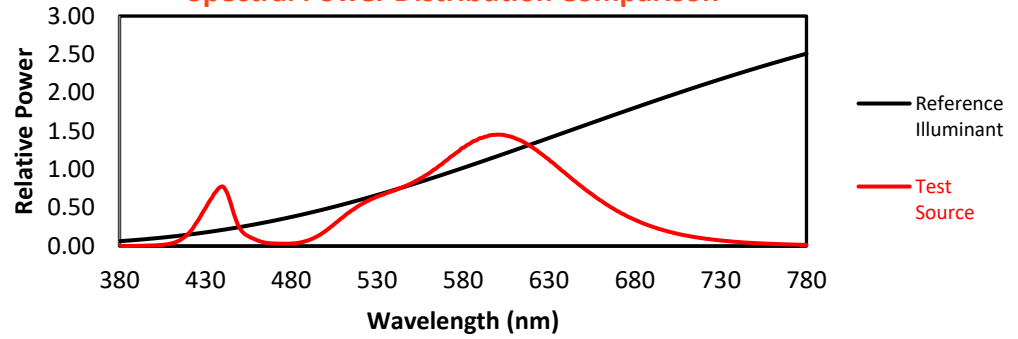
REPORT NUMBER: SP1-2407-184-3

TM-30-18

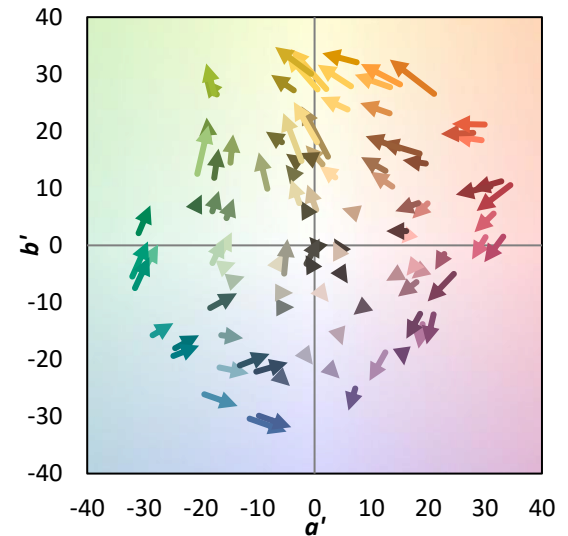
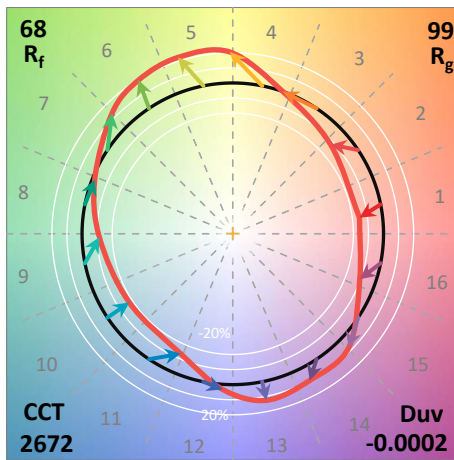
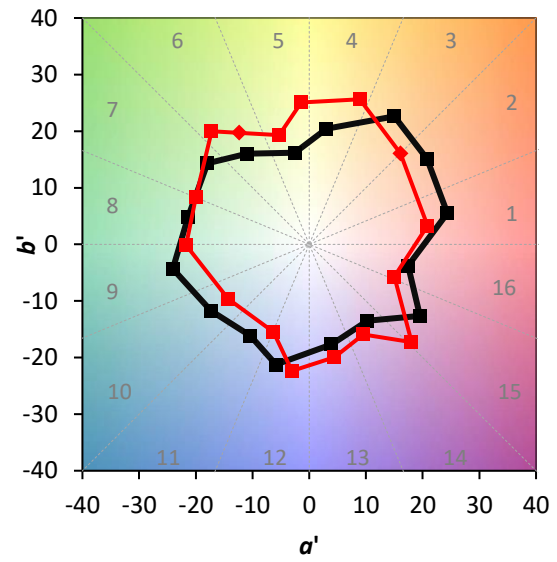
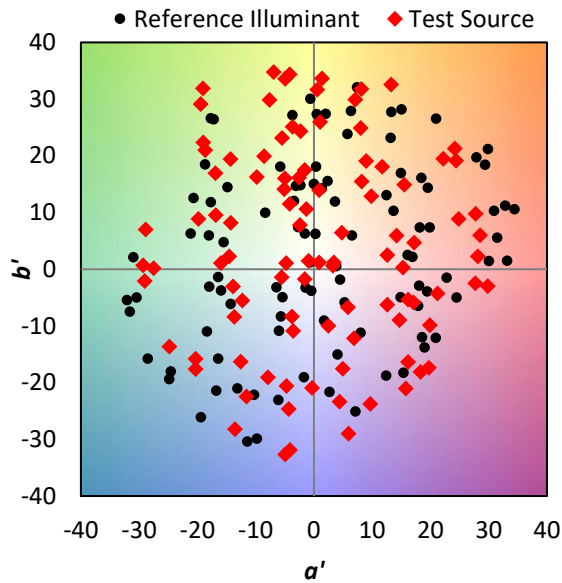
Summary

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

Spectral Power Distribution Comparison

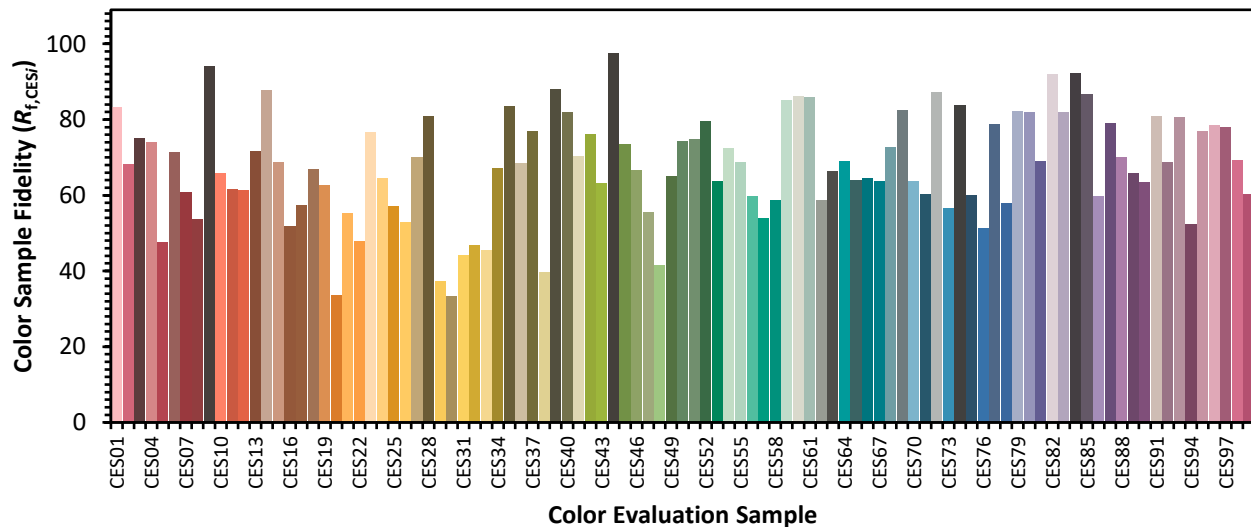


Color Vector Graphics

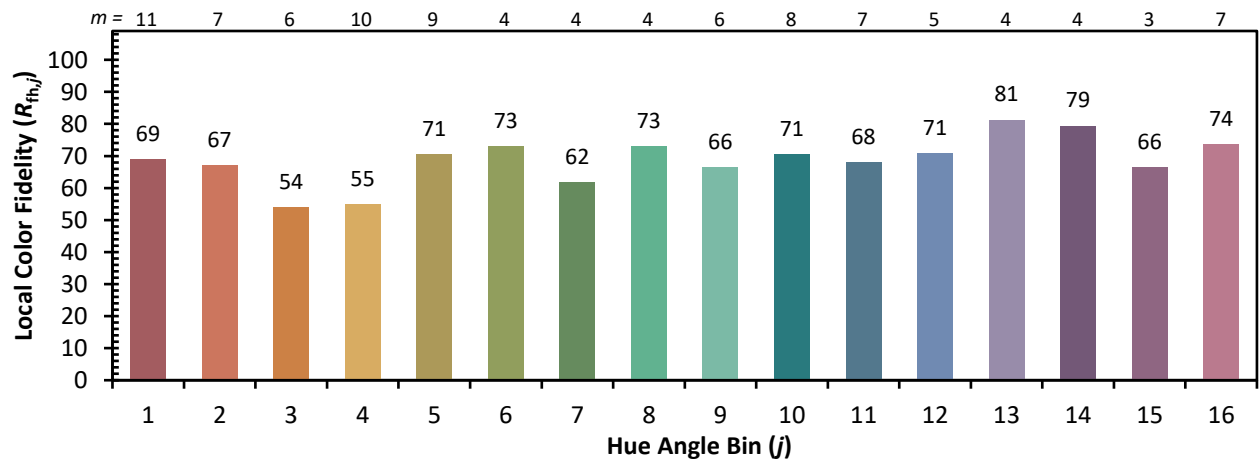
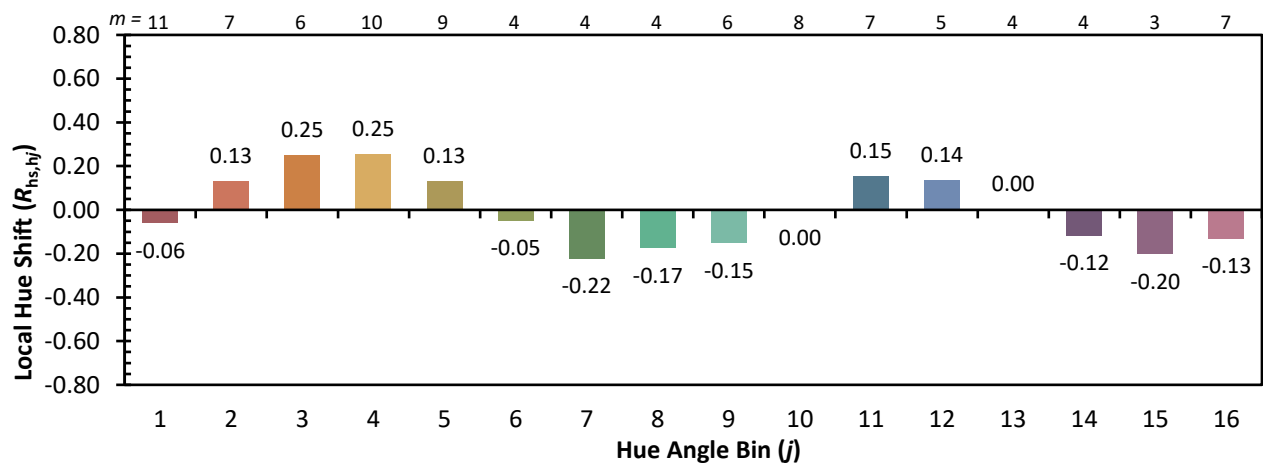
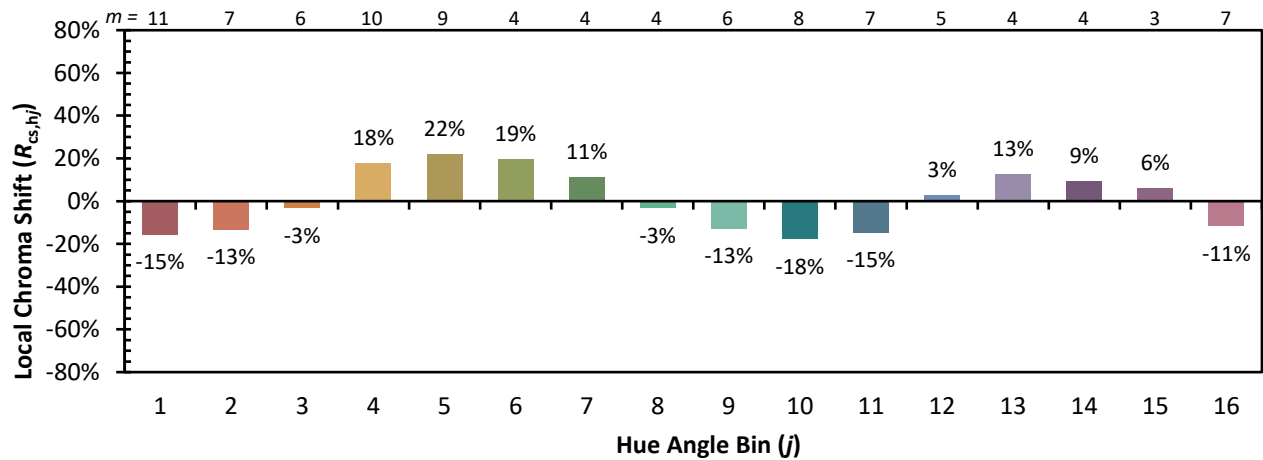


Individual Sample Fidelity Index ($R_{f,i}$)

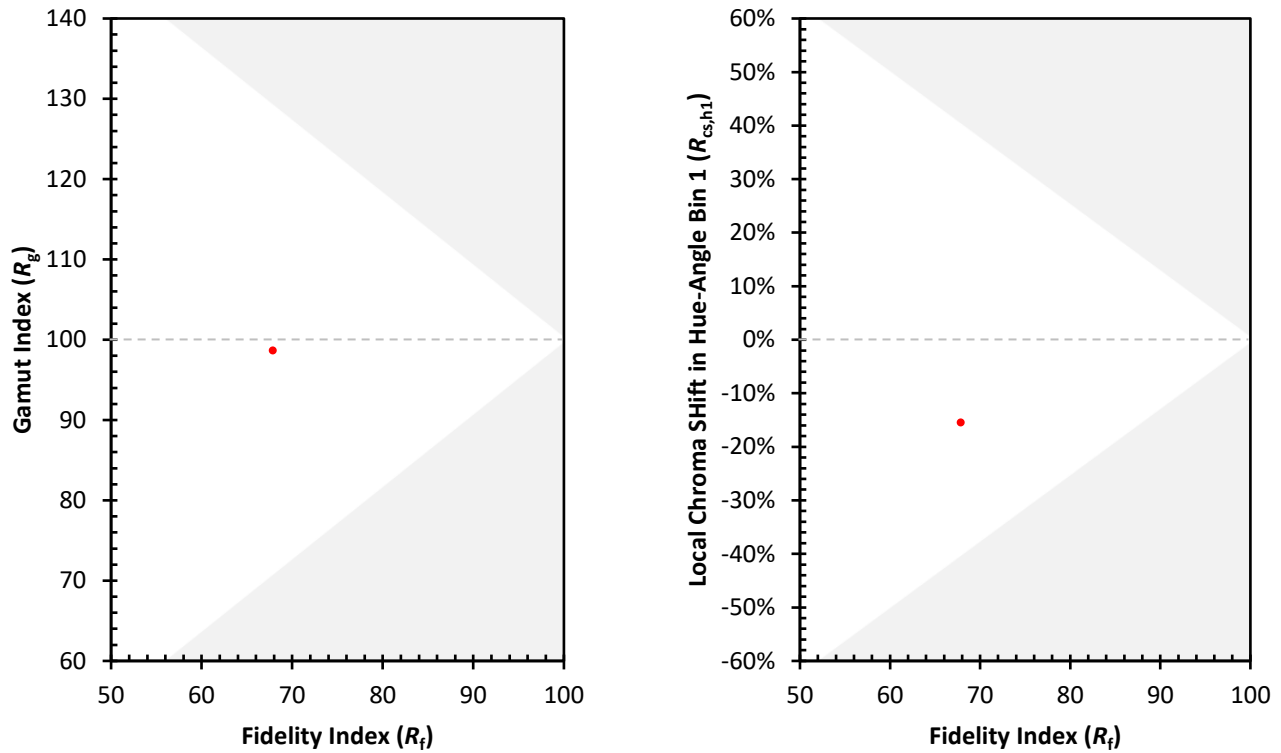
CES01 = 86	CES26 = 53	CES51 = 75	CES76 = 51
CES02 = 63	CES27 = 70	CES52 = 80	CES77 = 79
CES03 = 31	CES28 = 81	CES53 = 64	CES78 = 58
CES04 = 71	CES29 = 37	CES54 = 73	CES79 = 82
CES05 = 50	CES30 = 33	CES55 = 69	CES80 = 82
CES06 = 52	CES31 = 44	CES56 = 60	CES81 = 69
CES07 = 42	CES32 = 47	CES57 = 54	CES82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



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)