

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: P1067975

Luminaire Tested: **NAV-SA3C-735-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067975
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA3C-735-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 3xLight Square PACKAGE
70CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13316.8 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 140.4
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

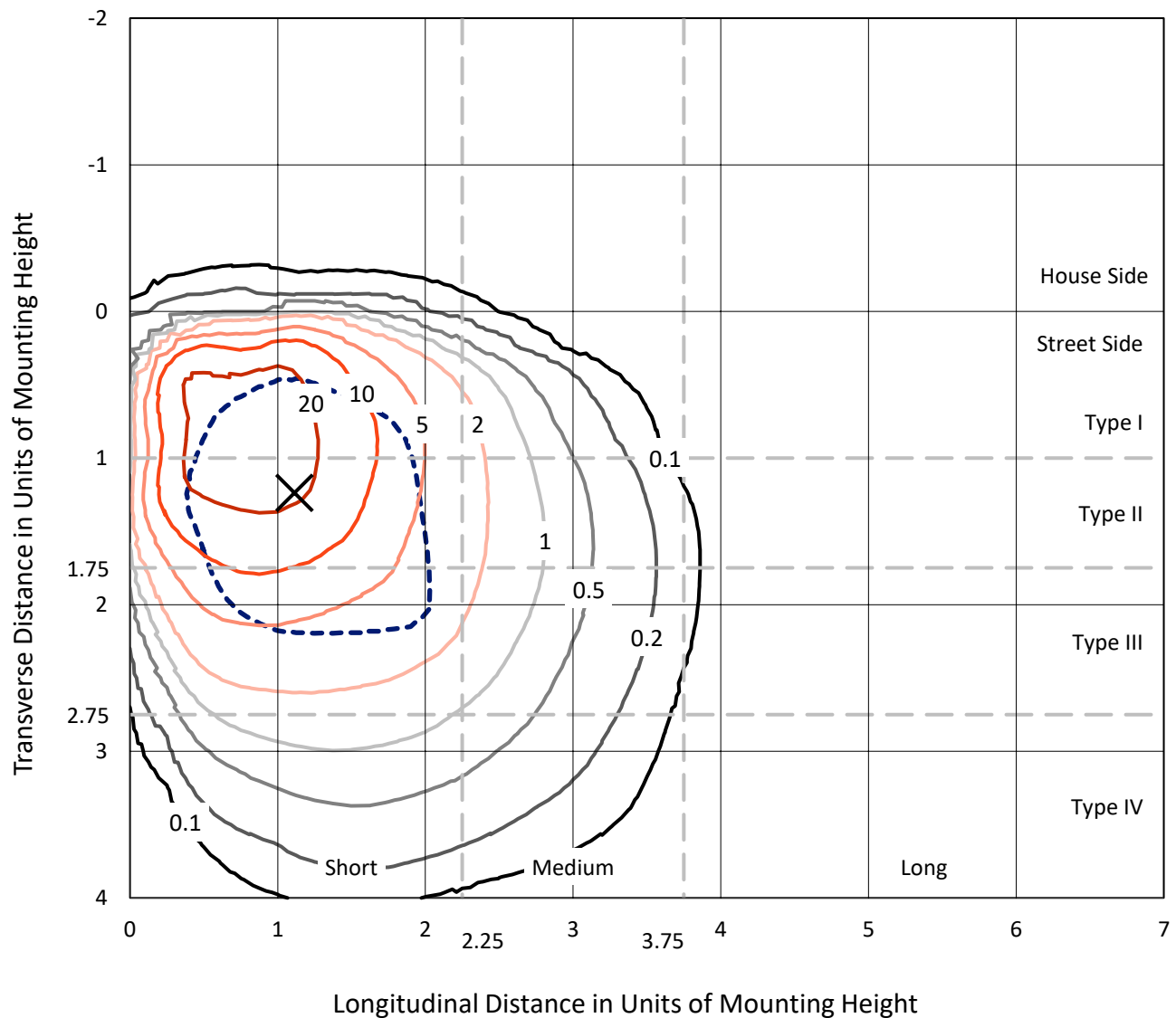


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

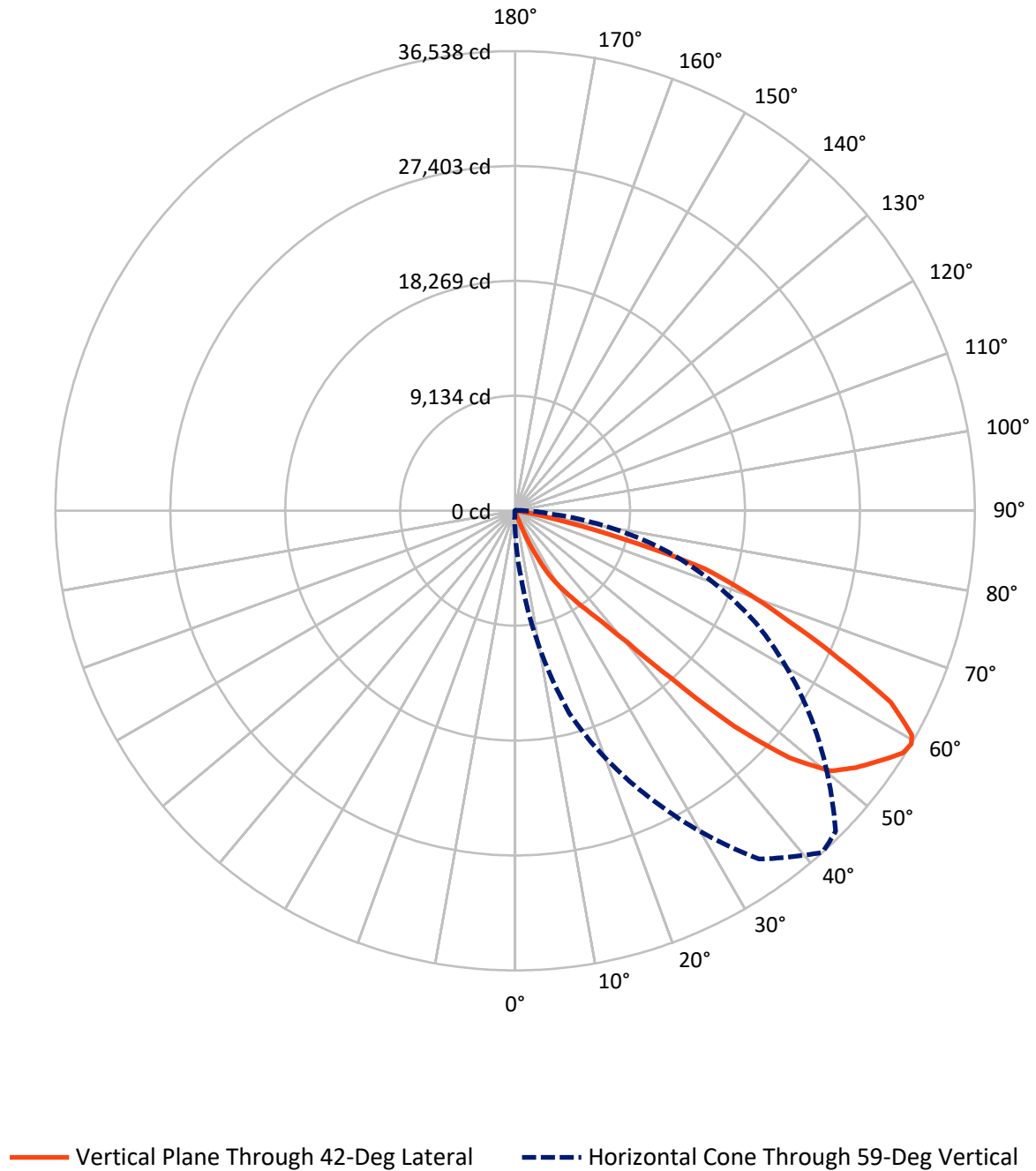


Based on 15 foot mounting height. Maximum calculated value = 39.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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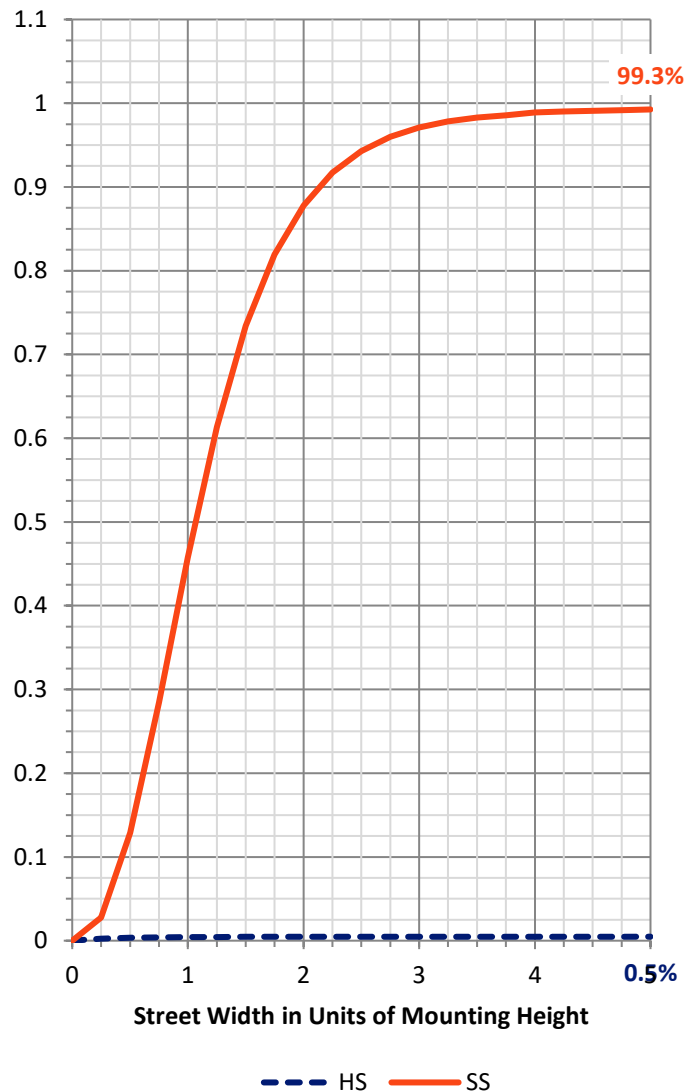
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	64.2	0.0	64.2
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	13252.6	0.0	13252.6
	% Fixture	99.5	0.0	99.5
Total	Lumens	13316.8	0.0	13316.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.9	0.0
10°-20°	19.4	0.1
20°-30°	248.4	1.9
30°-40°	837.5	6.3
40°-50°	2529.5	19.0
50°-60°	4465.1	33.5
60°-70°	3931.6	29.5
70°-80°	1251.4	9.4
80°-90°	29.9	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°	13316.8	100.0
0°-180°	13316.8	100.0



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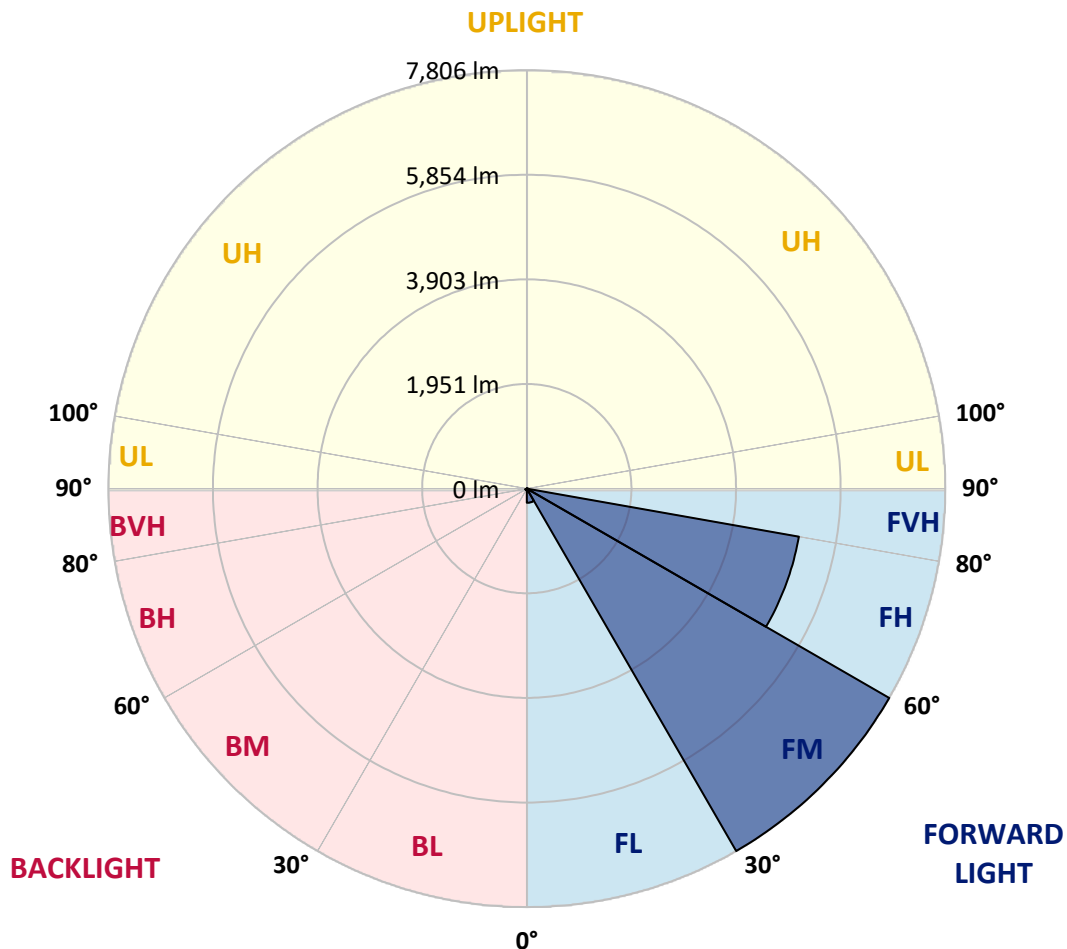
CATALOG NUMBER: NAV-SA3C-735-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	264.6	2.0			
FM	(30°-60°)	7805.8	58.6			
FH	(60°-80°)	5153.7	38.7			G3/7500
FVH	(80°-90°)	28.5	0.2			G1/100
BL	(0°-30°)	7.2	0.1	B0/110		
BM	(30°-60°)	26.2	0.2	B0/220		
BH	(60°-80°)	29.4	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
2.5°	58.5	58.5	54.3	50.1	45.9	41.8	41.8	41.8	37.6	37.6	33.4
5°	66.8	66.8	62.6	58.5	58.5	54.3	54.3	50.1	45.9	45.9	41.8
7.5°	71.0	71.0	71.0	71.0	66.8	66.8	66.8	62.6	58.5	54.3	50.1
10°	75.2	79.3	83.5	83.5	83.5	83.5	83.5	79.3	71.0	66.8	58.5
12.5°	83.5	87.7	96.0	104.4	104.4	108.6	104.4	100.2	91.9	79.3	66.8
15°	91.9	100.2	112.7	129.4	146.1	150.3	150.3	137.8	121.1	96.0	79.3
17.5°	104.4	116.9	150.3	204.6	263.0	309.0	309.0	275.6	192.1	125.3	91.9
20°	112.7	137.8	242.2	492.7	751.5	943.6	906.0	801.6	430.0	196.2	100.2
22.5°	125.3	175.4	513.6	1294.3	2004.1	2354.8	2271.3	1724.4	964.5	350.7	121.1
25°	142.0	254.7	1018.8	2425.8	3724.3	4104.3	4050.0	3219.1	1757.8	588.7	154.5
27.5°	175.4	375.8	1632.5	3678.4	5494.6	5820.3	5799.4	4713.8	2809.9	947.8	200.4
30°	221.3	547.0	2421.6	4997.8	6667.9	6997.7	6893.3	5807.8	3791.1	1448.8	258.9
32.5°	275.6	764.1	3135.6	5970.6	7749.2	8183.5	8058.2	6759.7	4580.2	1874.7	384.1
35°	359.1	977.0	3841.2	6830.7	8997.6	9548.8	9340.0	7740.9	5260.8	2354.8	463.5
37.5°	400.8	1102.3	4488.4	7765.9	10400.5	11152.1	10993.4	8980.9	5953.9	2968.6	567.8
40°	405.0	1252.6	5160.6	8985.1	12383.8	13724.0	13440.1	11110.3	7244.0	3757.7	730.7
42.5°	417.5	1478.0	6033.2	11064.4	16279.3	18204.0	17882.5	15026.7	10170.9	5340.1	1035.5
45°	476.0	1903.9	7811.9	14951.5	21627.7	24450.2	24078.6	20483.7	14258.4	8317.1	1766.1
47.5°	680.6	2864.2	10930.8	19147.6	27097.3	29347.7	29255.9	24784.2	17961.9	11369.2	2993.6
50°	1093.9	4396.5	14479.7	22675.7	30579.4	32512.6	32282.9	26579.6	20074.5	13452.6	3837.0
52.5°	1461.3	5862.0	16709.3	23974.2	31619.1	33923.8	33644.1	27235.1	20629.8	14066.4	4070.9
55°	1553.2	6392.3	17373.2	24375.0	32308.0	35117.9	34712.9	27673.5	20700.8	13628.0	3682.6
57.5°	1507.3	5891.3	16943.1	24767.5	33268.3	36345.4	35806.8	28529.4	20938.8	12884.8	3064.6
59°	1427.9	5273.3	16675.9	25080.7	33798.5	36537.5	36032.3	28717.3	21097.5	12546.6	2688.9
60°	1336.1	4855.8	16467.1	25285.2	33765.1	36236.9	35715.0	28629.6	21160.1	12254.3	2509.3
62.5°	1031.3	3874.6	16166.5	25139.1	31656.7	33493.8	33197.3	26483.5	20241.6	11319.1	1979.1
65°	801.6	2964.4	15064.3	22421.0	26938.6	28174.5	28082.6	22425.2	17035.0	9757.5	1427.9
67.5°	634.6	2162.8	12738.6	18158.1	21673.7	23431.4	23364.6	18204.0	12930.7	7457.0	1027.1
70°	517.7	1540.7	8734.6	13690.6	17335.6	19548.5	19452.4	14650.9	9582.2	4730.5	747.4
72.5°	438.4	985.4	5298.4	10321.2	14467.2	15732.3	15452.6	11820.1	6968.5	2576.1	592.9
75°	371.6	605.4	2626.2	6434.0	8617.7	8609.3	8329.6	6258.7	3741.0	1260.9	471.8
77.5°	300.6	425.9	1031.3	1766.1	2718.1	3365.2	3311.0	2217.1	1119.0	367.4	292.3
80°	196.2	200.4	275.6	484.3	747.4	826.7	939.4	676.4	325.7	175.4	121.1
82.5°	87.7	96.0	125.3	158.7	158.7	146.1	129.4	96.0	71.0	58.5	29.2
85°	20.9	29.2	20.9	25.1	20.9	16.7	16.7	8.4	0.0	0.0	0.0
87.5°	4.2	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°	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
2.5°	33.4	33.4	33.4	29.2	29.2	29.2	25.1	25.1	25.1	20.9	20.9
5°	41.8	37.6	33.4	33.4	29.2	29.2	25.1	20.9	20.9	20.9	16.7
7.5°	45.9	41.8	37.6	33.4	29.2	25.1	25.1	20.9	16.7	16.7	16.7
10°	54.3	50.1	41.8	33.4	29.2	25.1	20.9	20.9	16.7	12.5	12.5
12.5°	62.6	54.3	45.9	37.6	29.2	25.1	20.9	20.9	16.7	12.5	8.4
15°	71.0	62.6	50.1	37.6	29.2	25.1	20.9	20.9	12.5	8.4	4.2
17.5°	79.3	66.8	50.1	41.8	29.2	25.1	20.9	16.7	8.4	4.2	0.0
20°	83.5	71.0	54.3	41.8	29.2	25.1	20.9	12.5	4.2	0.0	0.0
22.5°	91.9	79.3	58.5	41.8	29.2	20.9	12.5	4.2	0.0	0.0	0.0
25°	108.6	83.5	58.5	41.8	29.2	20.9	8.4	0.0	0.0	0.0	0.0
27.5°	121.1	91.9	58.5	41.8	29.2	16.7	4.2	0.0	0.0	0.0	0.0
30°	142.0	100.2	62.6	41.8	29.2	12.5	4.2	0.0	0.0	0.0	0.0
32.5°	175.4	108.6	62.6	41.8	25.1	12.5	0.0	0.0	0.0	0.0	0.0
35°	212.9	125.3	62.6	41.8	25.1	12.5	0.0	0.0	0.0	0.0	0.0
37.5°	217.1	133.6	62.6	41.8	25.1	8.4	0.0	0.0	0.0	0.0	0.0
40°	225.5	125.3	66.8	41.8	25.1	8.4	0.0	0.0	0.0	0.0	0.0
42.5°	258.9	116.9	71.0	41.8	25.1	8.4	0.0	0.0	0.0	0.0	0.0
45°	384.1	121.1	71.0	45.9	25.1	12.5	0.0	0.0	0.0	0.0	0.0
47.5°	668.0	125.3	66.8	45.9	25.1	12.5	0.0	0.0	0.0	0.0	0.0
50°	855.9	146.1	66.8	50.1	29.2	8.4	0.0	0.0	0.0	0.0	0.0
52.5°	910.2	171.2	66.8	54.3	37.6	4.2	0.0	0.0	0.0	0.0	0.0
55°	885.2	200.4	71.0	58.5	45.9	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	818.3	217.1	75.2	62.6	50.1	0.0	0.0	0.0	0.0	0.0	0.0
59°	747.4	229.6	87.7	66.8	50.1	0.0	0.0	0.0	0.0	0.0	0.0
60°	688.9	242.2	91.9	71.0	50.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	555.3	258.9	100.2	83.5	41.8	0.0	0.0	0.0	0.0	0.0	0.0
65°	484.3	271.4	104.4	91.9	37.6	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	442.6	279.7	112.7	96.0	33.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	409.2	275.6	121.1	91.9	29.2	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	371.6	263.0	146.1	83.5	25.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	334.0	238.0	158.7	75.2	16.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	242.2	200.4	146.1	66.8	8.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	104.4	108.6	104.4	50.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	20.9	25.1	20.9	12.5	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°	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
2.5°	20.9	20.9	20.9	20.9	25.1	25.1	33.4	41.8	50.1	54.3	54.3
5°	16.7	16.7	16.7	16.7	16.7	20.9	25.1	33.4	45.9	50.1	50.1
7.5°	12.5	12.5	12.5	12.5	12.5	12.5	20.9	29.2	41.8	45.9	50.1
10°	12.5	8.4	8.4	4.2	4.2	8.4	12.5	25.1	37.6	41.8	45.9
12.5°	8.4	4.2	4.2	0.0	0.0	4.2	8.4	20.9	33.4	37.6	41.8
15°	4.2	0.0	0.0	0.0	0.0	0.0	4.2	16.7	29.2	33.4	41.8
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	25.1	33.4	37.6
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4	20.9	29.2	33.4
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	16.7	25.1	29.2
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	16.7	20.9
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4	12.5	16.7
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4	12.5	16.7
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	8.4	12.5
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	8.4	12.5
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	8.4	8.4
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	8.4
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	8.4
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	8.4
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	8.4
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	8.4
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	4.2
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	4.2
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	4.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	8.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	8.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	4.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	4.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	4.2
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°	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
2.5°	58.5	58.5	54.3	50.1	50.1	50.1	54.3	58.5	58.5	58.5
5°	54.3	54.3	50.1	50.1	50.1	50.1	54.3	62.6	66.8	66.8
7.5°	54.3	54.3	50.1	50.1	50.1	50.1	54.3	62.6	66.8	71.0
10°	50.1	50.1	50.1	50.1	45.9	50.1	54.3	62.6	75.2	75.2
12.5°	50.1	50.1	50.1	50.1	45.9	50.1	58.5	66.8	79.3	83.5
15°	50.1	50.1	50.1	45.9	45.9	50.1	58.5	71.0	83.5	91.9
17.5°	45.9	50.1	50.1	45.9	45.9	50.1	58.5	71.0	91.9	104.4
20°	41.8	45.9	50.1	45.9	45.9	45.9	58.5	71.0	96.0	112.7
22.5°	37.6	41.8	45.9	45.9	41.8	45.9	58.5	75.2	104.4	125.3
25°	33.4	37.6	37.6	41.8	41.8	45.9	58.5	75.2	108.6	142.0
27.5°	25.1	29.2	33.4	37.6	37.6	45.9	58.5	79.3	116.9	175.4
30°	20.9	25.1	29.2	33.4	37.6	45.9	58.5	79.3	125.3	221.3
32.5°	20.9	25.1	29.2	33.4	37.6	41.8	58.5	83.5	137.8	275.6
35°	16.7	20.9	25.1	33.4	33.4	41.8	58.5	83.5	150.3	359.1
37.5°	16.7	20.9	25.1	33.4	33.4	41.8	58.5	83.5	183.7	400.8
40°	12.5	16.7	20.9	33.4	33.4	41.8	62.6	87.7	187.9	405.0
42.5°	12.5	16.7	20.9	29.2	33.4	41.8	62.6	87.7	175.4	417.5
45°	12.5	16.7	20.9	33.4	37.6	45.9	62.6	91.9	171.2	476.0
47.5°	12.5	16.7	20.9	33.4	41.8	45.9	62.6	91.9	175.4	680.6
50°	12.5	16.7	20.9	33.4	45.9	45.9	62.6	91.9	192.1	1093.9
52.5°	8.4	12.5	16.7	29.2	37.6	50.1	66.8	87.7	204.6	1461.3
55°	8.4	8.4	12.5	25.1	33.4	54.3	71.0	87.7	238.0	1553.2
57.5°	8.4	8.4	12.5	20.9	29.2	58.5	75.2	87.7	275.6	1507.3
59°	8.4	8.4	8.4	20.9	25.1	58.5	75.2	91.9	279.7	1427.9
60°	8.4	8.4	8.4	16.7	25.1	58.5	79.3	96.0	283.9	1336.1
62.5°	4.2	4.2	4.2	16.7	20.9	58.5	87.7	116.9	292.3	1031.3
65°	8.4	8.4	4.2	12.5	20.9	50.1	100.2	125.3	296.4	801.6
67.5°	8.4	8.4	8.4	16.7	20.9	50.1	104.4	129.4	296.4	634.6
70°	8.4	8.4	8.4	16.7	25.1	50.1	104.4	133.6	292.3	517.7
72.5°	8.4	8.4	8.4	16.7	25.1	45.9	96.0	137.8	279.7	438.4
75°	8.4	8.4	8.4	12.5	20.9	41.8	91.9	150.3	254.7	371.6
77.5°	8.4	8.4	8.4	8.4	16.7	33.4	83.5	167.0	225.5	300.6
80°	12.5	8.4	8.4	8.4	12.5	29.2	79.3	162.8	187.9	196.2
82.5°	12.5	8.4	8.4	4.2	8.4	20.9	62.6	125.3	96.0	87.7
85°	8.4	8.4	8.4	4.2	4.2	12.5	29.2	37.6	29.2	20.9
87.5°	8.4	8.4	8.4	4.2	4.2	4.2	4.2	4.2	4.2	4.2
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: SP1-2407-184-5

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-735-U-5WQ

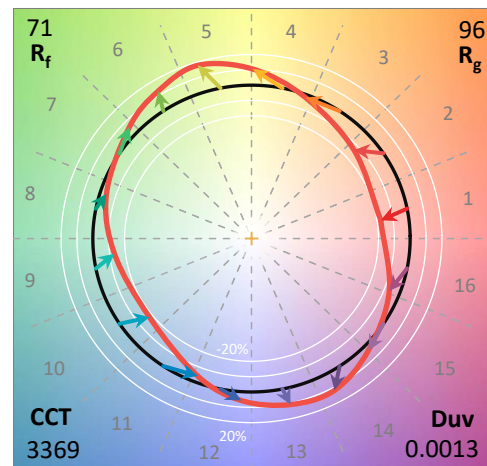
Data in this report applies to families of products including GSS-SB1A-735-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-5
 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-735-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 3500K CCT 26 LEDS

Spectral Parameters

CCT (K):	3369	CRI (Ra):	70.1		
CIE u':	0.2386	R1:	66.6	R9:	-40.2
CIE v':	0.5156	R2:	77.6	R10:	49.1
Duv:	0.0013	R3:	88.5	R11:	66.3
CIE x:	0.4143	R4:	69.5	R12:	45.7
CIE y:	0.3980	R5:	66.4	R13:	68.0
CIE z:	0.1877	R6:	69.6	R14:	93.4
Peak Wavelength (nm):	590	R7:	77.5	R15:	57.6
Dominant Wavelength (nm):	580	R8:	44.9		
Purity:	43.80166				
Rf:	71.4				
Rg:	96				



Test Conditions

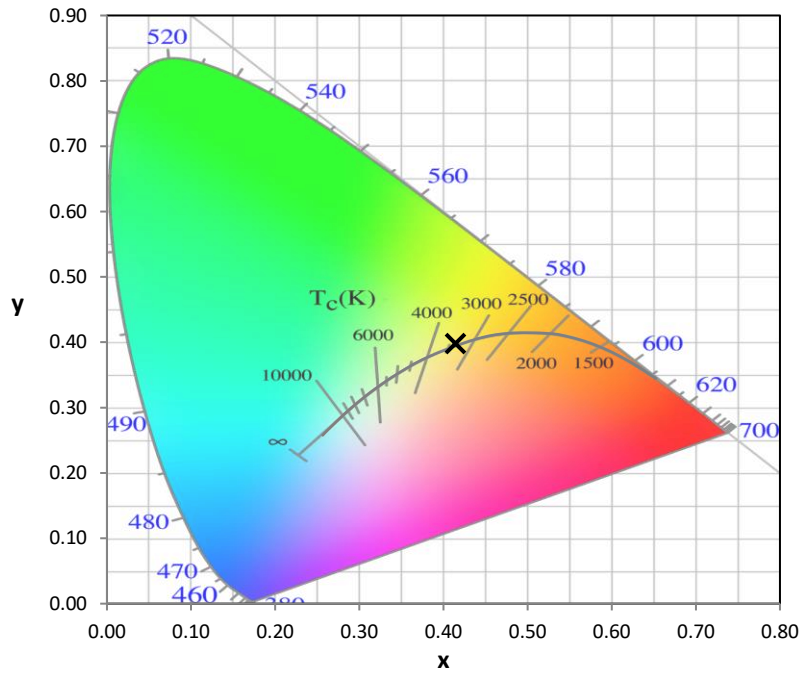
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-5

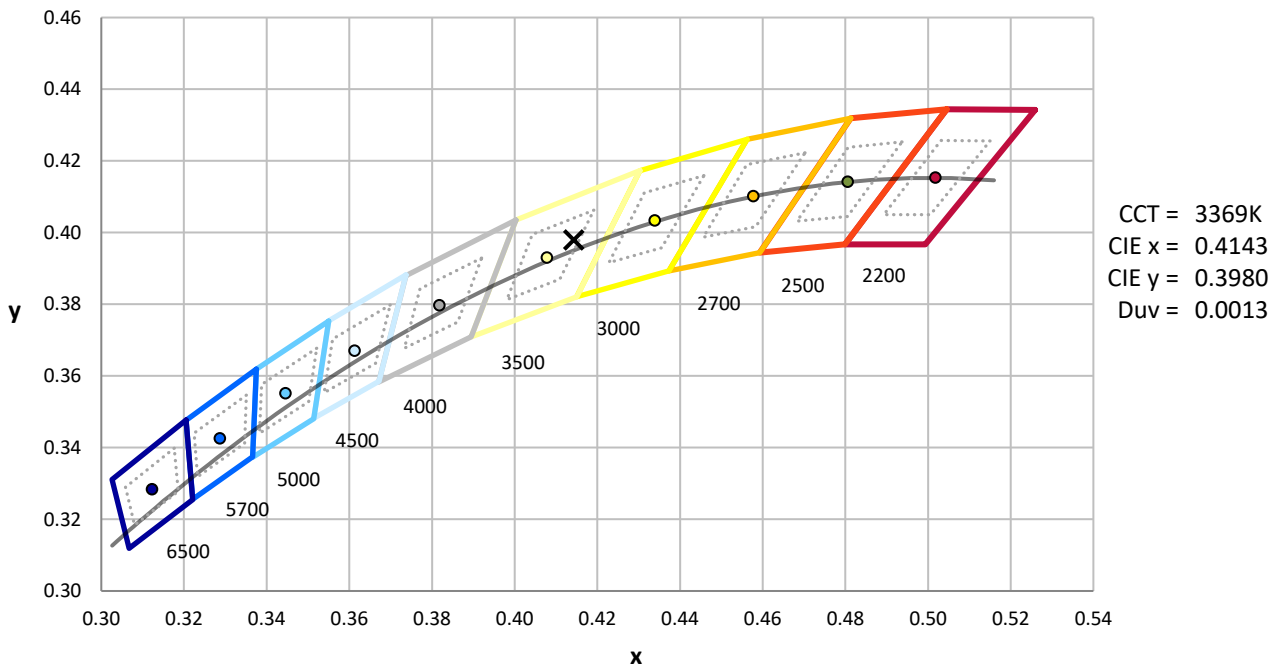
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



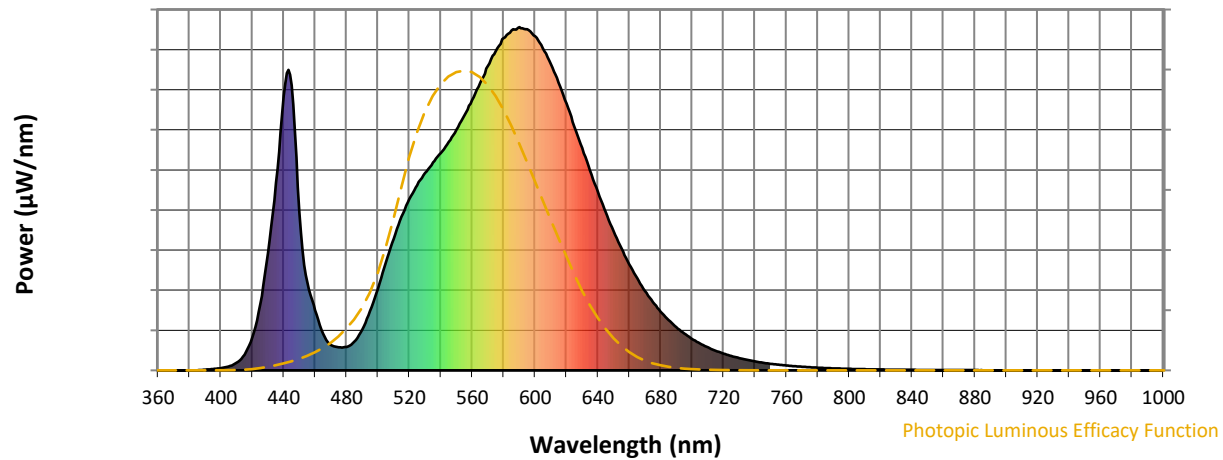
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-5

Photopic Flux vs. Wavelength

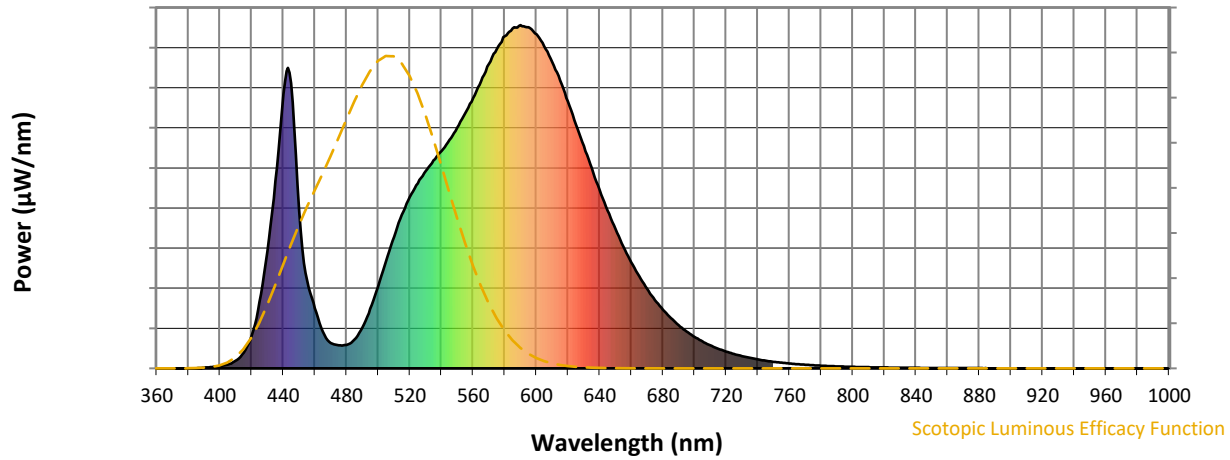


Photopic Lumens: NR

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

Scotopic Flux vs. Wavelength



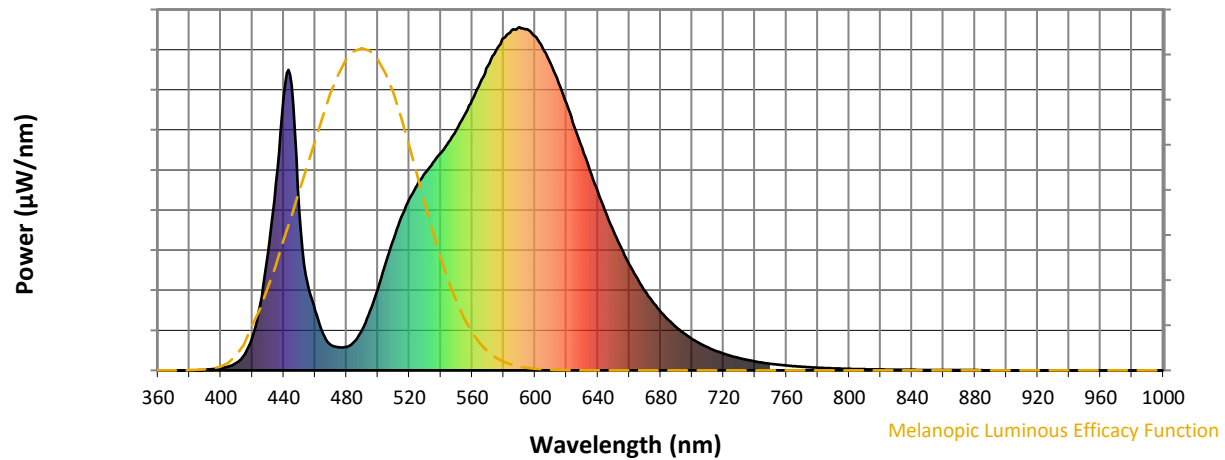
Scotopic Lumens: NR

S/P: 1.29

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.36

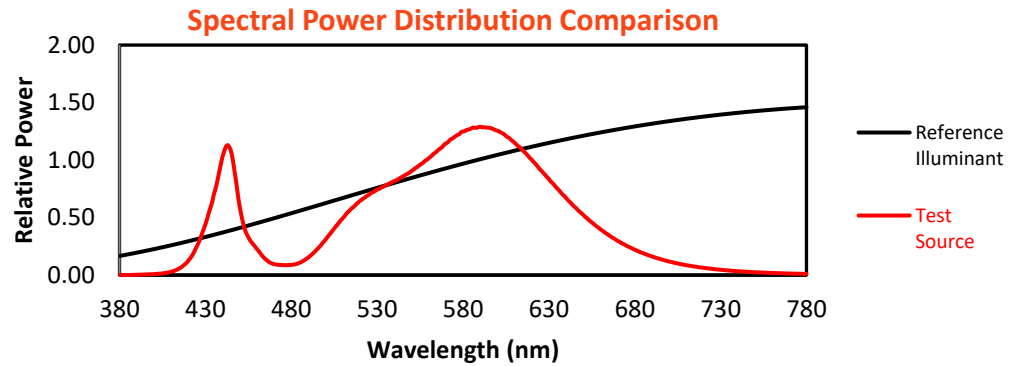
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

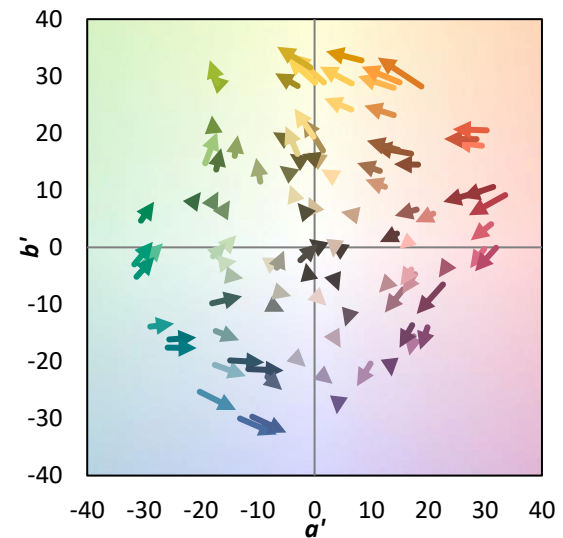
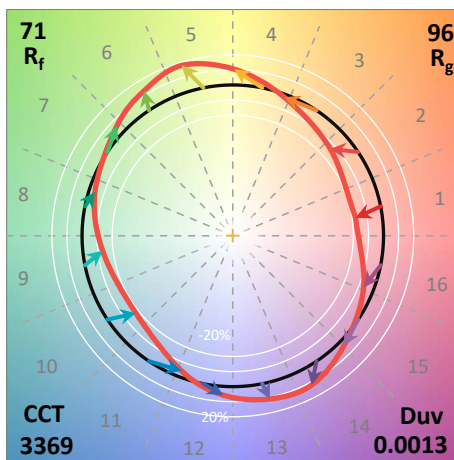
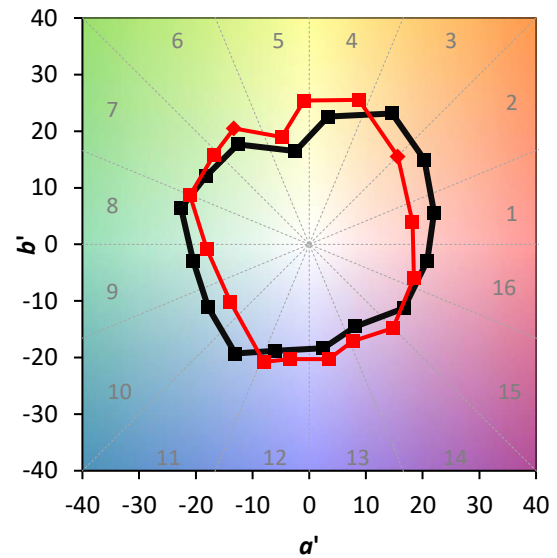
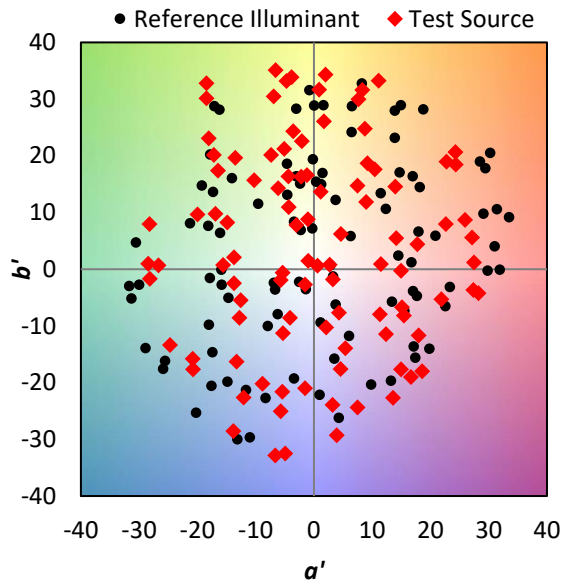
TM-30-18

Summary

$R_f = 71.4$
 $R_g = 96$
 CIE $R_a = 70.1$
 $R_g = -40.2$

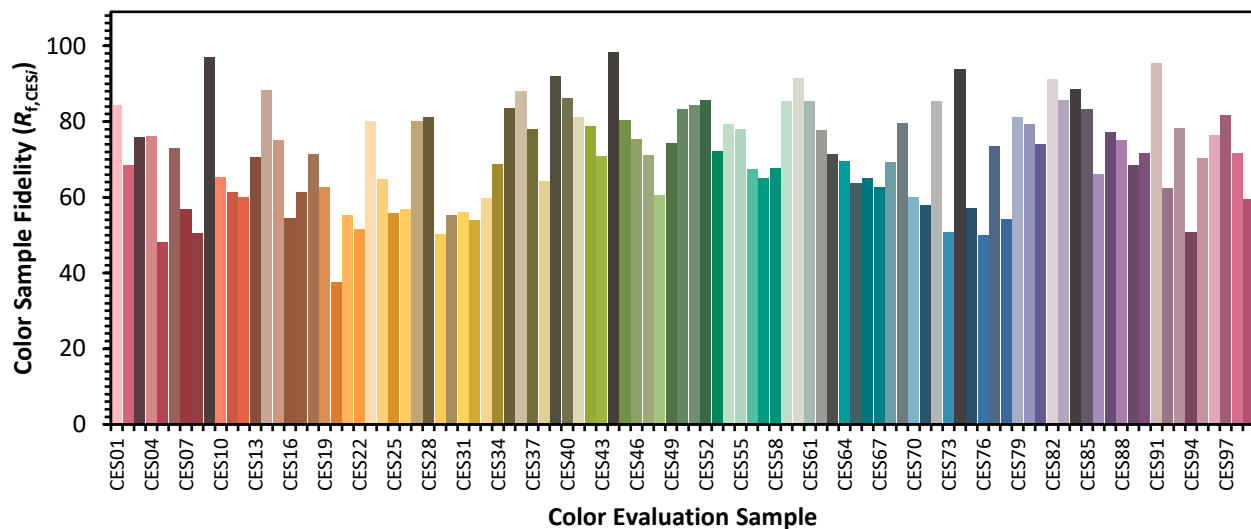


Color Vector Graphics

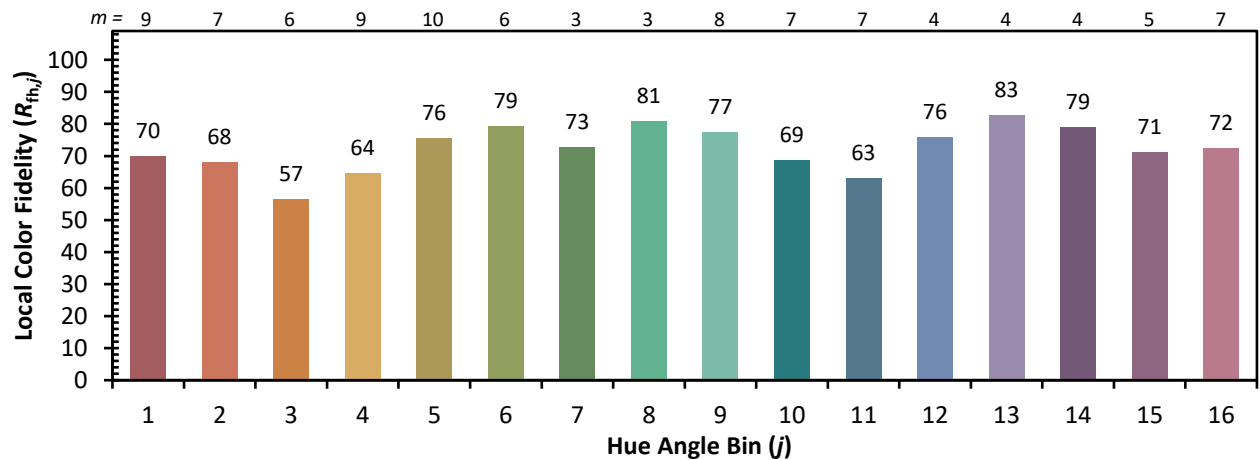
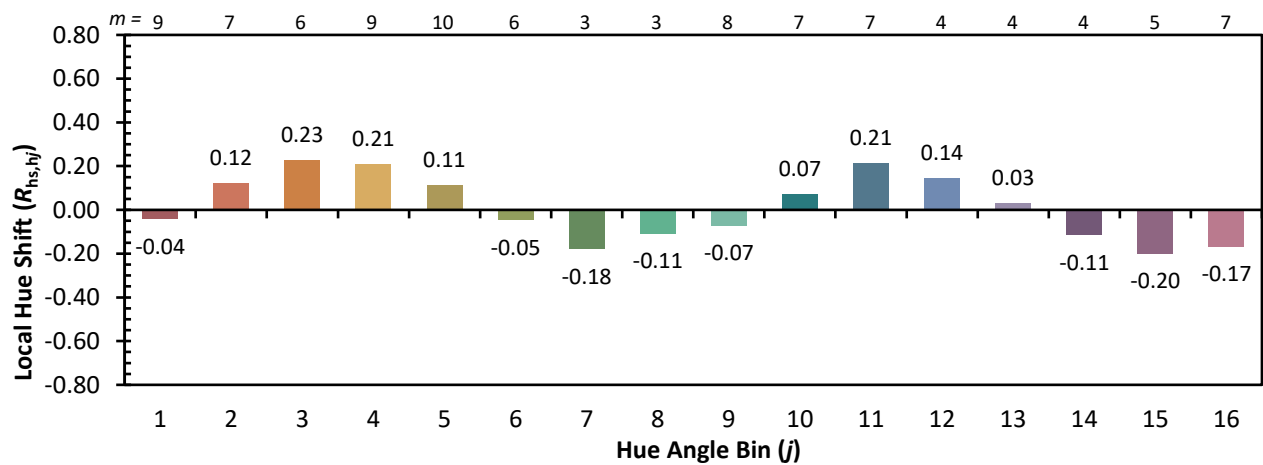
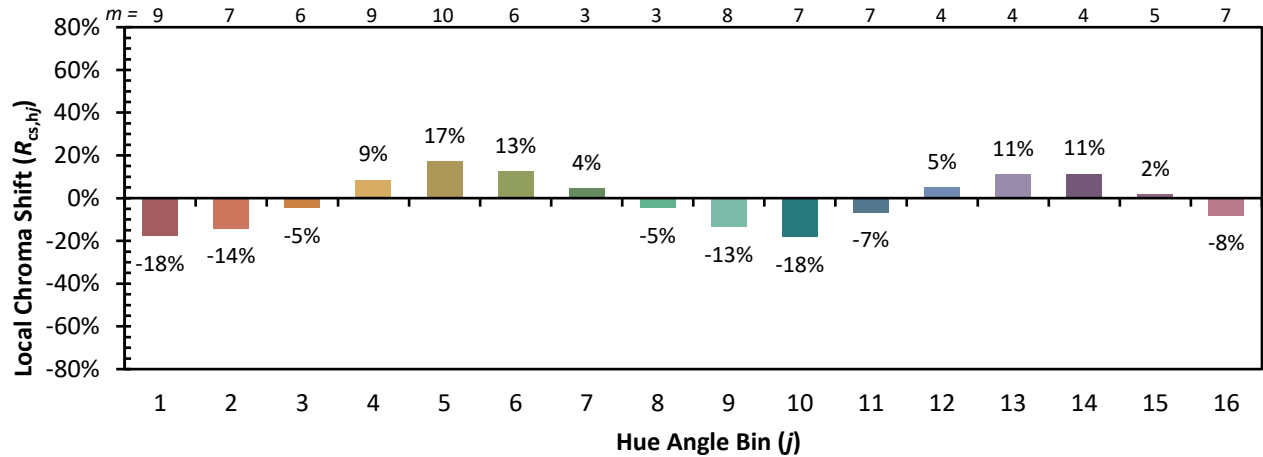


Individual Sample Fidelity Index ($R_{f,i}$)

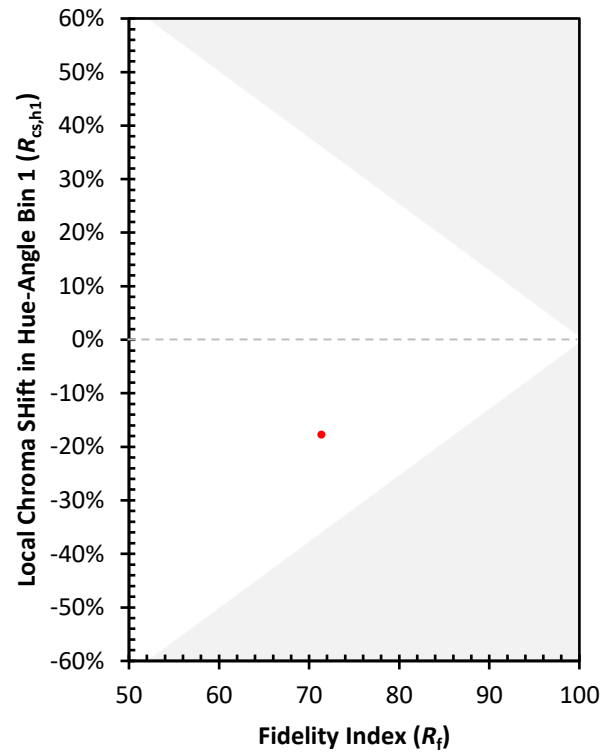
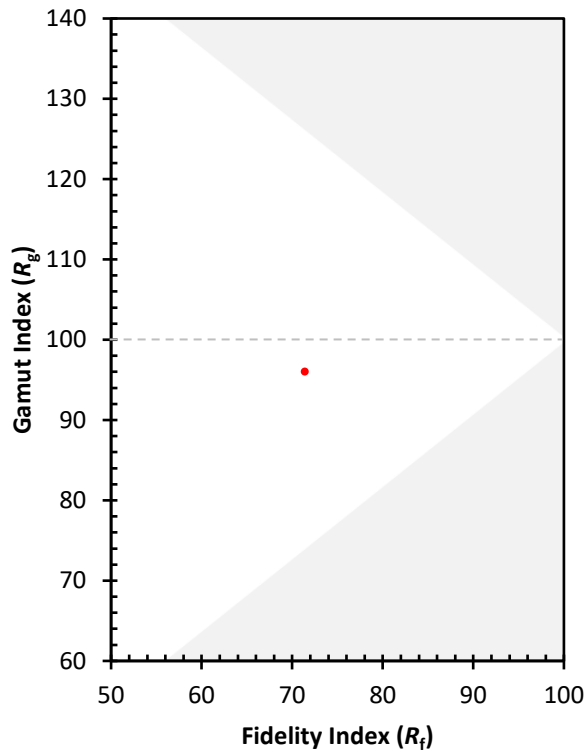
CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82 = 91
CES08 = 39	CES33 = 60	CES58 = 68	CES83 = 86
CES09 = 29	CES34 = 69	CES59 = 85	CES84 = 89
CES10 = 75	CES35 = 83	CES60 = 91	CES85 = 83
CES11 = 58	CES36 = 88	CES61 = 85	CES86 = 66
CES12 = 64	CES37 = 78	CES62 = 78	CES87 = 77
CES13 = 43	CES38 = 64	CES63 = 71	CES88 = 75
CES14 = 74	CES39 = 92	CES64 = 70	CES89 = 68
CES15 = 71	CES40 = 86	CES65 = 64	CES90 = 72
CES16 = 47	CES41 = 81	CES66 = 65	CES91 = 95
CES17 = 50	CES42 = 79	CES67 = 63	CES92 = 62
CES18 = 56	CES43 = 71	CES68 = 69	CES93 = 78
CES19 = 72	CES44 = 98	CES69 = 80	CES94 = 51
CES20 = 65	CES45 = 80	CES70 = 60	CES95 = 70
CES21 = 87	CES46 = 75	CES71 = 58	CES96 = 76
CES22 = 79	CES47 = 71	CES72 = 85	CES97 = 82
CES23 = 92	CES48 = 61	CES73 = 51	CES98 = 72
CES24 = 91	CES49 = 74	CES74 = 94	CES99 = 60
CES25 = 72	CES50 = 83	CES75 = 57	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)