

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: P1067985

Luminaire Tested: **NAV-SA6A-735-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067985
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA6A-735-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 6xLight Square PACKAGE
70CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17165.9 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 161.6
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



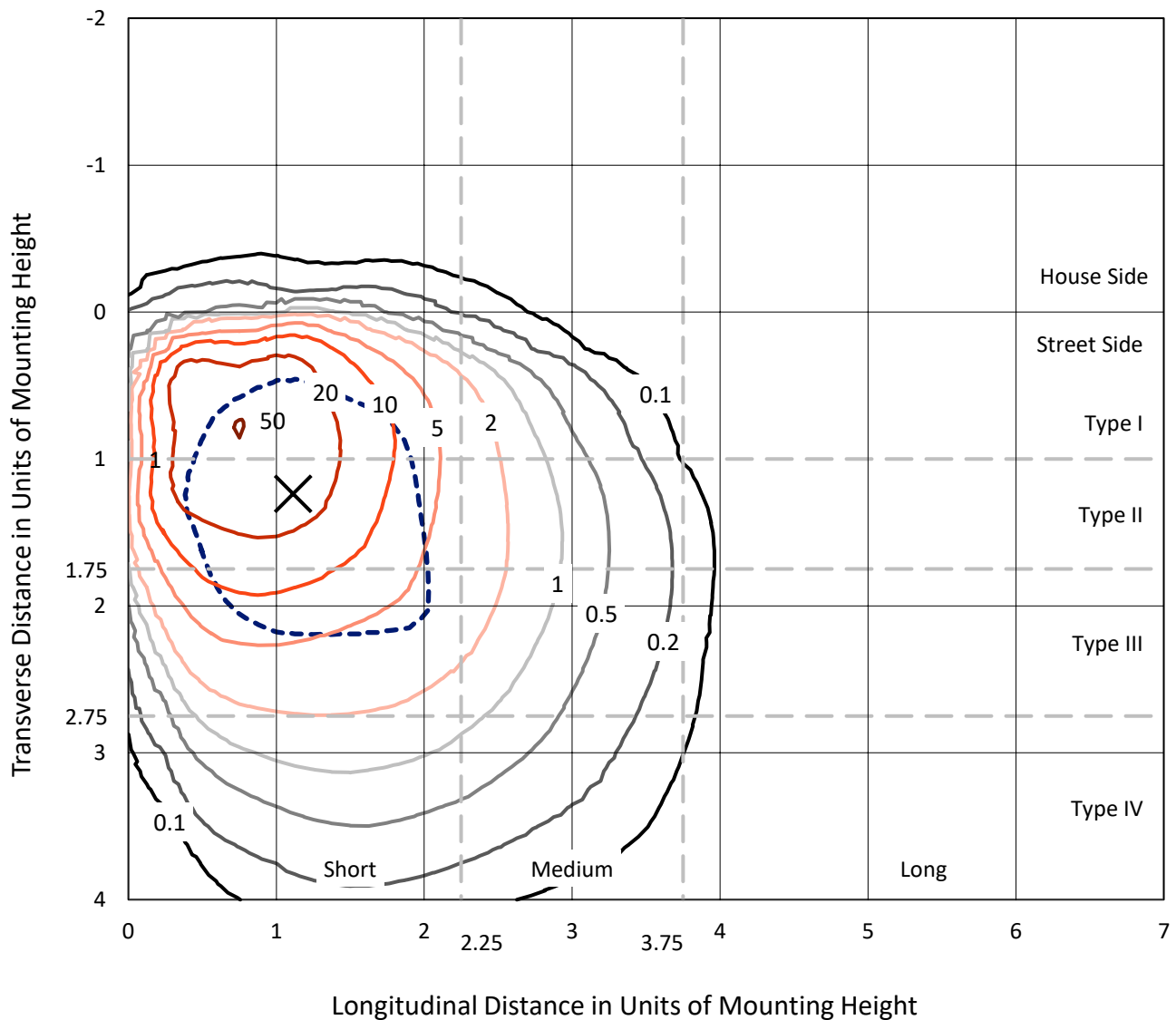
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

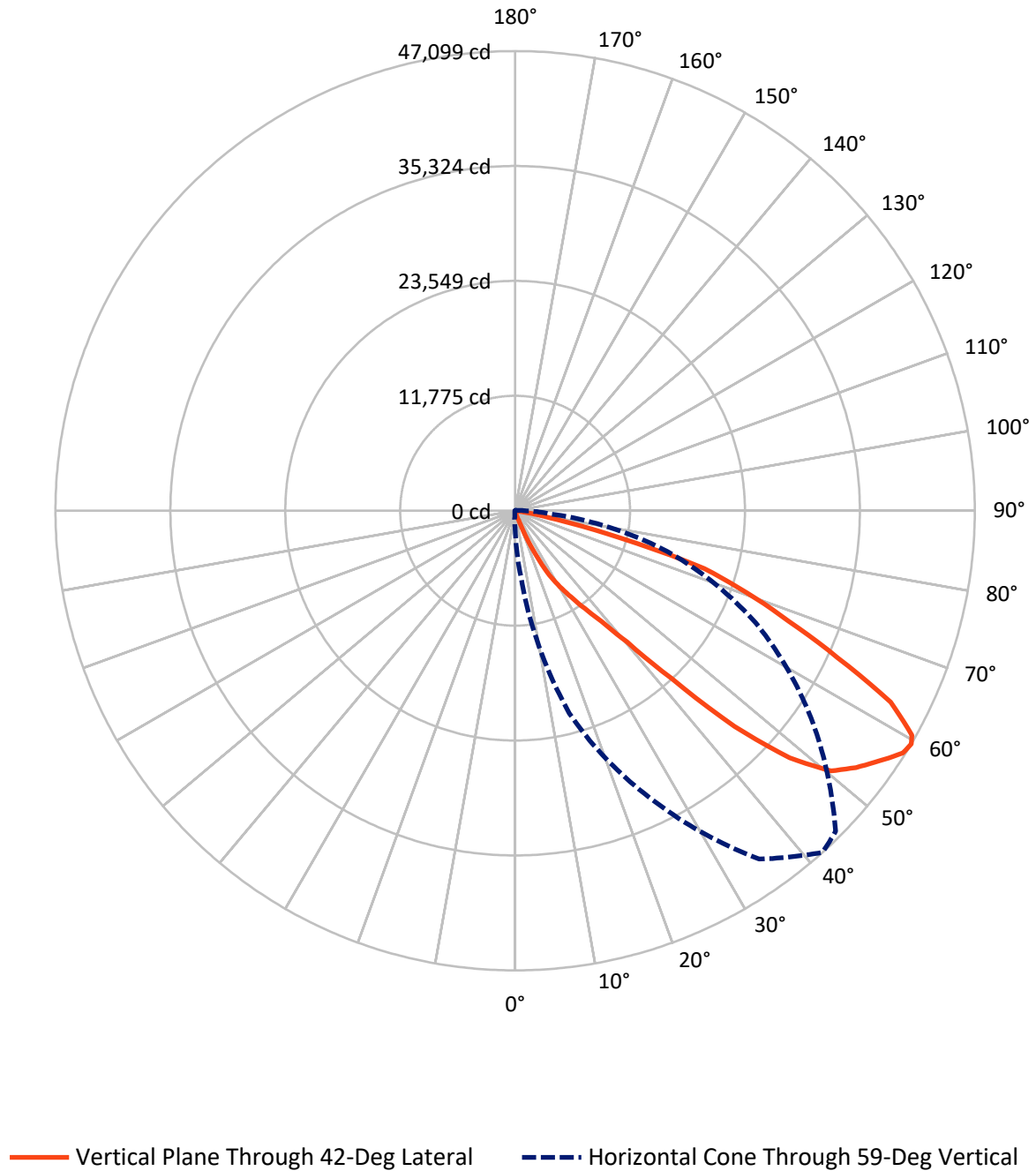


Based on 15 foot mounting height. Maximum calculated value = 51 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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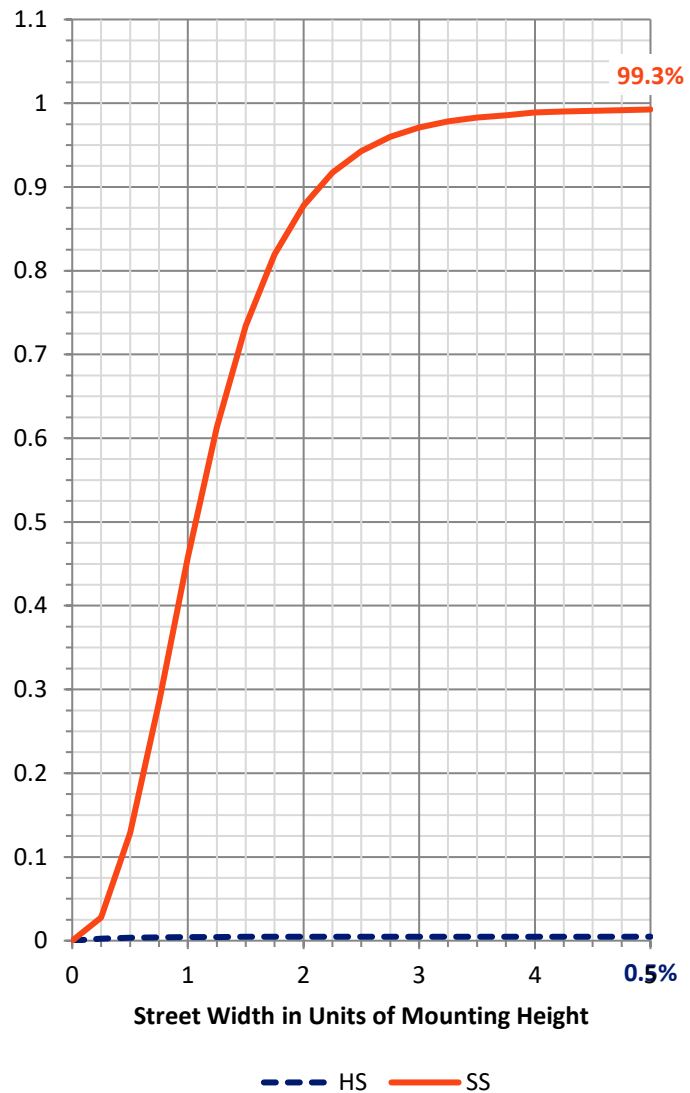
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	82.7	0.0	82.7
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	17083.2	0.0	17083.2
	% Fixture	99.5	0.0	99.5
Total	Lumens	17165.9	0.0	17165.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.0	0.0
10°-20°	25.0	0.1
20°-30°	320.2	1.9
30°-40°	1079.5	6.3
40°-50°	3260.6	19.0
50°-60°	5755.7	33.5
60°-70°	5068.0	29.5
70°-80°	1613.2	9.4
80°-90°	38.6	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°	17165.9	100.0
0°-180°	17165.9	100.0



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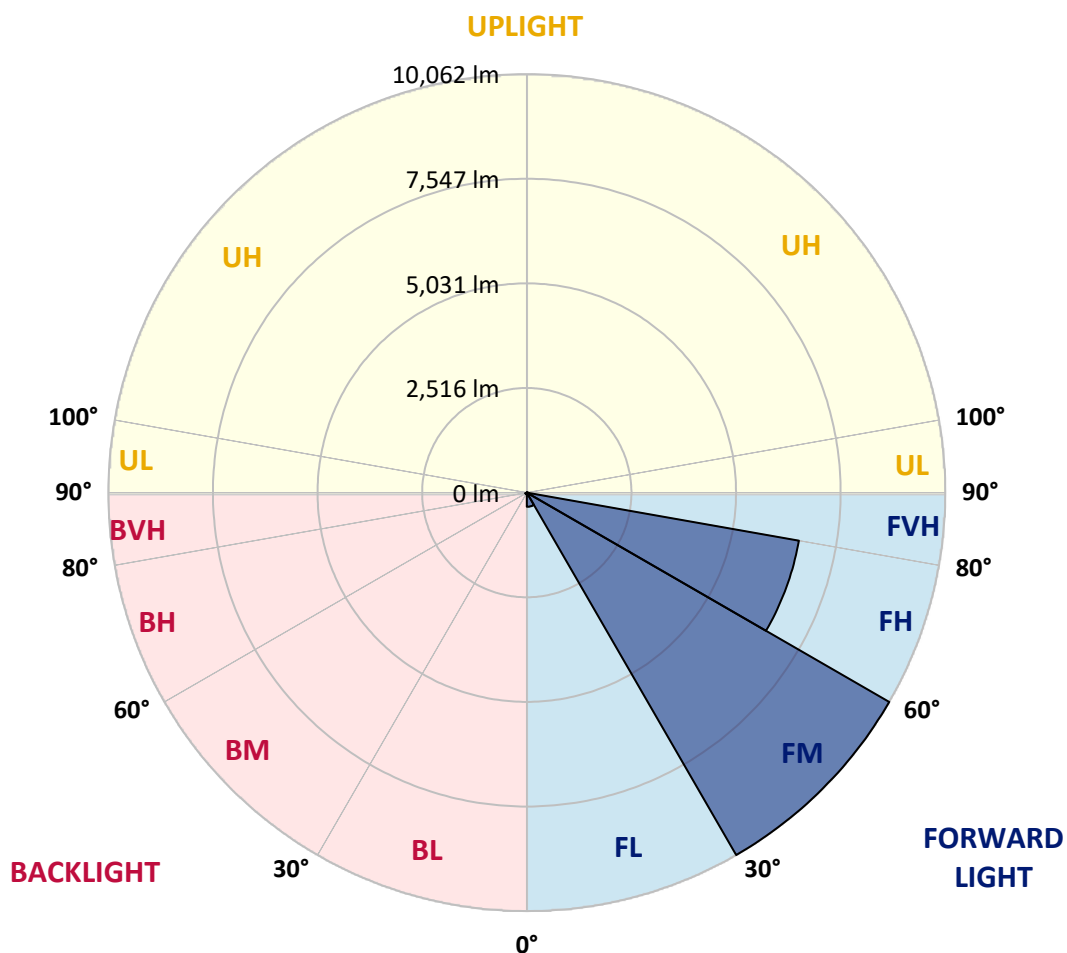
CATALOG NUMBER: NAV-SA6A-735-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	341.0	2.0			
FM	(30°-60°)	10062.1	58.6			
FH	(60°-80°)	6643.4	38.7			G3/7500
FVH	(80°-90°)	36.7	0.2			G1/100
BL	(0°-30°)	9.2	0.1	B0/110		
BM	(30°-60°)	33.8	0.2	B0/220		
BH	(60°-80°)	37.8	0.2	B0/110		G0/110
BVH	(80°-90°)	1.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
2.5°	75.3	75.3	70.0	64.6	59.2	53.8	53.8	53.8	48.4	48.4	43.1
5°	86.1	86.1	80.7	75.3	75.3	70.0	70.0	64.6	59.2	59.2	53.8
7.5°	91.5	91.5	91.5	91.5	86.1	86.1	86.1	80.7	75.3	70.0	64.6
10°	96.9	102.3	107.6	107.6	107.6	107.6	107.6	102.3	91.5	86.1	75.3
12.5°	107.6	113.0	123.8	134.6	134.6	139.9	134.6	129.2	118.4	102.3	86.1
15°	118.4	129.2	145.3	166.8	188.4	193.8	193.8	177.6	156.1	123.8	102.3
17.5°	134.6	150.7	193.8	263.7	339.1	398.3	398.3	355.2	247.6	161.5	118.4
20°	145.3	177.6	312.2	635.1	968.8	1216.4	1167.9	1033.4	554.4	253.0	129.2
22.5°	161.5	226.0	662.0	1668.4	2583.4	3035.5	2927.9	2222.8	1243.3	452.1	156.1
25°	183.0	328.3	1313.2	3127.0	4800.8	5290.6	5220.6	4149.6	2265.9	758.9	199.1
27.5°	226.0	484.4	2104.4	4741.6	7082.8	7502.6	7475.7	6076.4	3622.1	1221.7	258.3
30°	285.3	705.1	3121.6	6442.4	8595.2	9020.4	8885.8	7486.5	4886.9	1867.6	333.7
32.5°	355.2	984.9	4041.9	7696.4	9989.1	10548.9	10387.4	8713.6	5904.1	2416.6	495.2
35°	462.9	1259.4	4951.5	8805.1	11598.4	12308.8	12039.7	9978.4	6781.4	3035.5	597.4
37.5°	516.7	1420.9	5785.7	10010.7	13406.8	14375.5	14171.0	11576.9	7674.8	3826.7	732.0
40°	522.1	1614.6	6652.3	11582.2	15963.3	17690.9	17324.9	14321.7	9337.9	4843.9	941.9
42.5°	538.2	1905.3	7777.1	14262.5	20984.7	23465.9	23051.5	19370.1	13110.8	6883.7	1334.8
45°	613.6	2454.2	10069.9	19273.2	27879.2	31517.5	31038.5	26404.5	18379.8	10721.1	2276.6
47.5°	877.3	3692.1	14090.3	24682.2	34929.7	37830.7	37712.2	31948.0	23153.7	14655.4	3859.0
50°	1410.1	5667.3	18665.1	29230.1	39418.4	41910.3	41614.3	34262.3	25877.0	17341.1	4946.1
52.5°	1883.7	7556.4	21539.1	30903.9	40758.5	43729.4	43368.8	35107.3	26592.9	18132.2	5247.5
55°	2002.1	8240.0	22394.8	31420.6	41646.5	45268.7	44746.6	35672.4	26684.4	17567.1	4747.0
57.5°	1942.9	7594.1	21840.5	31926.5	42884.4	46851.0	46156.7	36775.8	26991.1	16609.1	3950.4
59°	1840.7	6797.6	21496.0	32330.2	43568.0	47098.6	46447.4	37018.0	27195.7	16173.2	3466.1
60°	1722.3	6259.4	21226.9	32593.9	43524.9	46711.1	46038.3	36904.9	27276.4	15796.4	3234.6
62.5°	1329.4	4994.6	20839.4	32405.5	40806.9	43175.1	42792.9	34138.5	26092.3	14590.8	2551.1
65°	1033.4	3821.3	19418.6	28901.8	34725.2	36318.3	36199.9	28907.2	21958.9	12577.9	1840.7
67.5°	818.1	2787.9	16420.7	23406.7	27938.4	30204.2	30118.1	23465.9	16668.3	9612.4	1324.0
70°	667.4	1986.0	11259.3	17647.8	22346.4	25198.9	25075.1	18885.7	12351.9	6097.9	963.4
72.5°	565.1	1270.2	6829.9	13304.5	18648.9	20279.7	19919.1	15236.7	8982.7	3320.7	764.3
75°	479.0	780.4	3385.3	8293.8	11108.6	11097.9	10737.3	8067.7	4822.3	1625.4	608.2
77.5°	387.5	549.0	1329.4	2276.6	3503.7	4338.0	4268.0	2857.9	1442.4	473.6	376.7
80°	253.0	258.3	355.2	624.3	963.4	1065.7	1211.0	871.9	419.8	226.0	156.1
82.5°	113.0	123.8	161.5	204.5	204.5	188.4	166.8	123.8	91.5	75.3	37.7
85°	26.9	37.7	26.9	32.3	26.9	21.5	21.5	10.8	0.0	0.0	0.0
87.5°	5.4	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°	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
2.5°	43.1	43.1	43.1	37.7	37.7	37.7	32.3	32.3	32.3	26.9	26.9
5°	53.8	48.4	43.1	43.1	37.7	37.7	32.3	26.9	26.9	26.9	21.5
7.5°	59.2	53.8	48.4	43.1	37.7	32.3	32.3	26.9	21.5	21.5	21.5
10°	70.0	64.6	53.8	43.1	37.7	32.3	26.9	26.9	21.5	16.1	16.1
12.5°	80.7	70.0	59.2	48.4	37.7	32.3	26.9	26.9	21.5	16.1	10.8
15°	91.5	80.7	64.6	48.4	37.7	32.3	26.9	26.9	16.1	10.8	5.4
17.5°	102.3	86.1	64.6	53.8	37.7	32.3	26.9	21.5	10.8	5.4	0.0
20°	107.6	91.5	70.0	53.8	37.7	32.3	26.9	16.1	5.4	0.0	0.0
22.5°	118.4	102.3	75.3	53.8	37.7	26.9	16.1	5.4	0.0	0.0	0.0
25°	139.9	107.6	75.3	53.8	37.7	26.9	10.8	0.0	0.0	0.0	0.0
27.5°	156.1	118.4	75.3	53.8	37.7	21.5	5.4	0.0	0.0	0.0	0.0
30°	183.0	129.2	80.7	53.8	37.7	16.1	5.4	0.0	0.0	0.0	0.0
32.5°	226.0	139.9	80.7	53.8	32.3	16.1	0.0	0.0	0.0	0.0	0.0
35°	274.5	161.5	80.7	53.8	32.3	16.1	0.0	0.0	0.0	0.0	0.0
37.5°	279.9	172.2	80.7	53.8	32.3	10.8	0.0	0.0	0.0	0.0	0.0
40°	290.6	161.5	86.1	53.8	32.3	10.8	0.0	0.0	0.0	0.0	0.0
42.5°	333.7	150.7	91.5	53.8	32.3	10.8	0.0	0.0	0.0	0.0	0.0
45°	495.2	156.1	91.5	59.2	32.3	16.1	0.0	0.0	0.0	0.0	0.0
47.5°	861.1	161.5	86.1	59.2	32.3	16.1	0.0	0.0	0.0	0.0	0.0
50°	1103.3	188.4	86.1	64.6	37.7	10.8	0.0	0.0	0.0	0.0	0.0
52.5°	1173.3	220.7	86.1	70.0	48.4	5.4	0.0	0.0	0.0	0.0	0.0
55°	1141.0	258.3	91.5	75.3	59.2	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1054.9	279.9	96.9	80.7	64.6	0.0	0.0	0.0	0.0	0.0	0.0
59°	963.4	296.0	113.0	86.1	64.6	0.0	0.0	0.0	0.0	0.0	0.0
60°	888.0	312.2	118.4	91.5	64.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	715.8	333.7	129.2	107.6	53.8	0.0	0.0	0.0	0.0	0.0	0.0
65°	624.3	349.8	134.6	118.4	48.4	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	570.5	360.6	145.3	123.8	43.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	527.4	355.2	156.1	118.4	37.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	479.0	339.1	188.4	107.6	32.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	430.6	306.8	204.5	96.9	21.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	312.2	258.3	188.4	86.1	10.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	134.6	139.9	134.6	64.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	26.9	32.3	26.9	16.1	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°	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
2.5°	26.9	26.9	26.9	26.9	32.3	32.3	43.1	53.8	64.6	70.0	70.0
5°	21.5	21.5	21.5	21.5	21.5	26.9	32.3	43.1	59.2	64.6	64.6
7.5°	16.1	16.1	16.1	16.1	16.1	16.1	26.9	37.7	53.8	59.2	64.6
10°	16.1	10.8	10.8	5.4	5.4	10.8	16.1	32.3	48.4	53.8	59.2
12.5°	10.8	5.4	5.4	0.0	0.0	5.4	10.8	26.9	43.1	48.4	53.8
15°	5.4	0.0	0.0	0.0	0.0	0.0	5.4	21.5	37.7	43.1	53.8
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.1	32.3	43.1	48.4
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	26.9	37.7	43.1
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	21.5	32.3	37.7
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.1	21.5	26.9
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	16.1	21.5
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	16.1	21.5
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	10.8	16.1
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	10.8	16.1
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	10.8	10.8
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	10.8
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	10.8
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	10.8
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	10.8
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	10.8
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	5.4
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	5.4
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	5.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	10.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	10.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	5.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	5.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	5.4
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°	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
2.5°	75.3	75.3	70.0	64.6	64.6	64.6	70.0	75.3	75.3	75.3
5°	70.0	70.0	64.6	64.6	64.6	64.6	70.0	80.7	86.1	86.1
7.5°	70.0	70.0	64.6	64.6	64.6	64.6	70.0	80.7	86.1	91.5
10°	64.6	64.6	64.6	64.6	59.2	64.6	70.0	80.7	96.9	96.9
12.5°	64.6	64.6	64.6	64.6	59.2	64.6	75.3	86.1	102.3	107.6
15°	64.6	64.6	64.6	59.2	59.2	64.6	75.3	91.5	107.6	118.4
17.5°	59.2	64.6	64.6	59.2	59.2	64.6	75.3	91.5	118.4	134.6
20°	53.8	59.2	64.6	59.2	59.2	59.2	75.3	91.5	123.8	145.3
22.5°	48.4	53.8	59.2	59.2	53.8	59.2	75.3	96.9	134.6	161.5
25°	43.1	48.4	48.4	53.8	53.8	59.2	75.3	96.9	139.9	183.0
27.5°	32.3	37.7	43.1	48.4	48.4	59.2	75.3	102.3	150.7	226.0
30°	26.9	32.3	37.7	43.1	48.4	59.2	75.3	102.3	161.5	285.3
32.5°	26.9	32.3	37.7	43.1	48.4	53.8	75.3	107.6	177.6	355.2
35°	21.5	26.9	32.3	43.1	43.1	53.8	75.3	107.6	193.8	462.9
37.5°	21.5	26.9	32.3	43.1	43.1	53.8	75.3	107.6	236.8	516.7
40°	16.1	21.5	26.9	43.1	43.1	53.8	80.7	113.0	242.2	522.1
42.5°	16.1	21.5	26.9	37.7	43.1	53.8	80.7	113.0	226.0	538.2
45°	16.1	21.5	26.9	43.1	48.4	59.2	80.7	118.4	220.7	613.6
47.5°	16.1	21.5	26.9	43.1	53.8	59.2	80.7	118.4	226.0	877.3
50°	16.1	21.5	26.9	43.1	59.2	59.2	80.7	118.4	247.6	1410.1
52.5°	10.8	16.1	21.5	37.7	48.4	64.6	86.1	113.0	263.7	1883.7
55°	10.8	10.8	16.1	32.3	43.1	70.0	91.5	113.0	306.8	2002.1
57.5°	10.8	10.8	16.1	26.9	37.7	75.3	96.9	113.0	355.2	1942.9
59°	10.8	10.8	10.8	26.9	32.3	75.3	96.9	118.4	360.6	1840.7
60°	10.8	10.8	10.8	21.5	32.3	75.3	102.3	123.8	366.0	1722.3
62.5°	5.4	5.4	5.4	21.5	26.9	75.3	113.0	150.7	376.7	1329.4
65°	10.8	10.8	5.4	16.1	26.9	64.6	129.2	161.5	382.1	1033.4
67.5°	10.8	10.8	10.8	21.5	26.9	64.6	134.6	166.8	382.1	818.1
70°	10.8	10.8	10.8	21.5	32.3	64.6	134.6	172.2	376.7	667.4
72.5°	10.8	10.8	10.8	21.5	32.3	59.2	123.8	177.6	360.6	565.1
75°	10.8	10.8	10.8	16.1	26.9	53.8	118.4	193.8	328.3	479.0
77.5°	10.8	10.8	10.8	10.8	21.5	43.1	107.6	215.3	290.6	387.5
80°	16.1	10.8	10.8	10.8	16.1	37.7	102.3	209.9	242.2	253.0
82.5°	16.1	10.8	10.8	5.4	10.8	26.9	80.7	161.5	123.8	113.0
85°	10.8	10.8	10.8	5.4	5.4	16.1	37.7	48.4	37.7	26.9
87.5°	10.8	10.8	10.8	5.4	5.4	5.4	5.4	5.4	5.4	5.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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

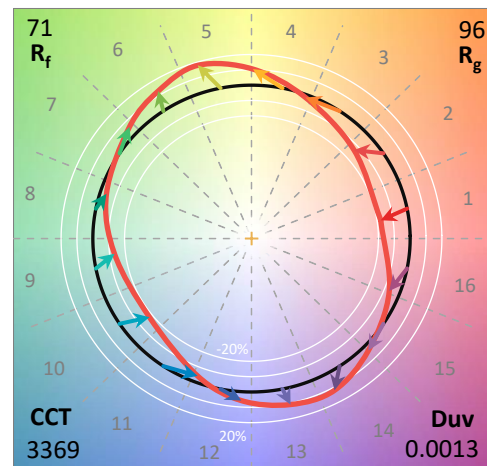
Test Information

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
 CIE u' : 0.2386
 CIE v' : 0.5156
 Duv: 0.0013
 CIE x: 0.4143
 CIE y: 0.3980
 CIE z: 0.1877
 Peak Wavelength (nm): 590
 Dominant Wavelength (nm): 580
 Purity: 43.80166
 R_f: 71.4
 R_g: 96

CRI (Ra): 70.1
 R1: 66.6
 R2: 77.6
 R3: 88.5
 R4: 69.5
 R5: 66.4
 R6: 69.6
 R7: 77.5
 R8: 44.9
 R9: -40.2
 R10: 49.1
 R11: 66.3
 R12: 45.7
 R13: 68.0
 R14: 93.4
 R15: 57.6



Test Conditions

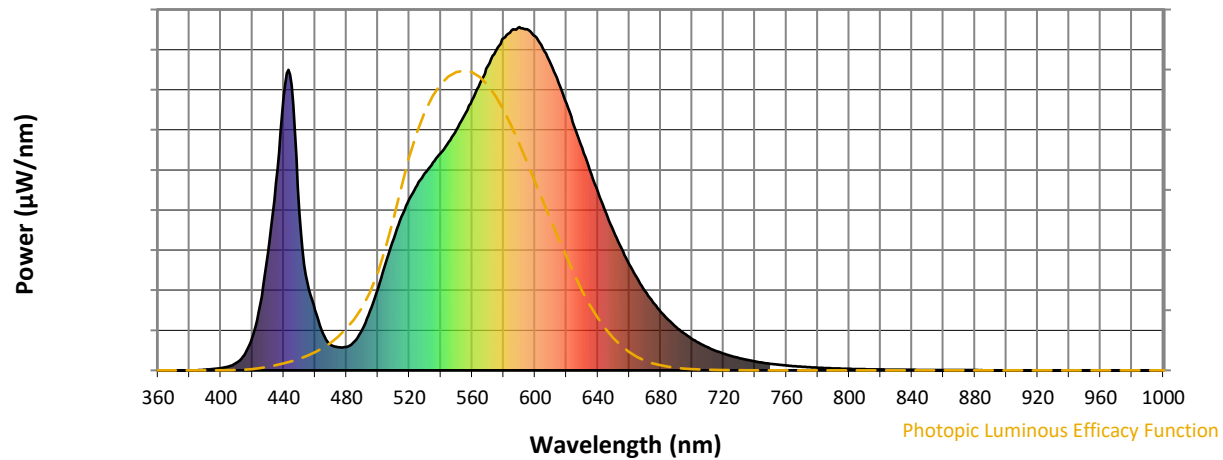
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

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

REPORT NUMBER: SP1-2407-184-5

Photopic Flux vs. Wavelength

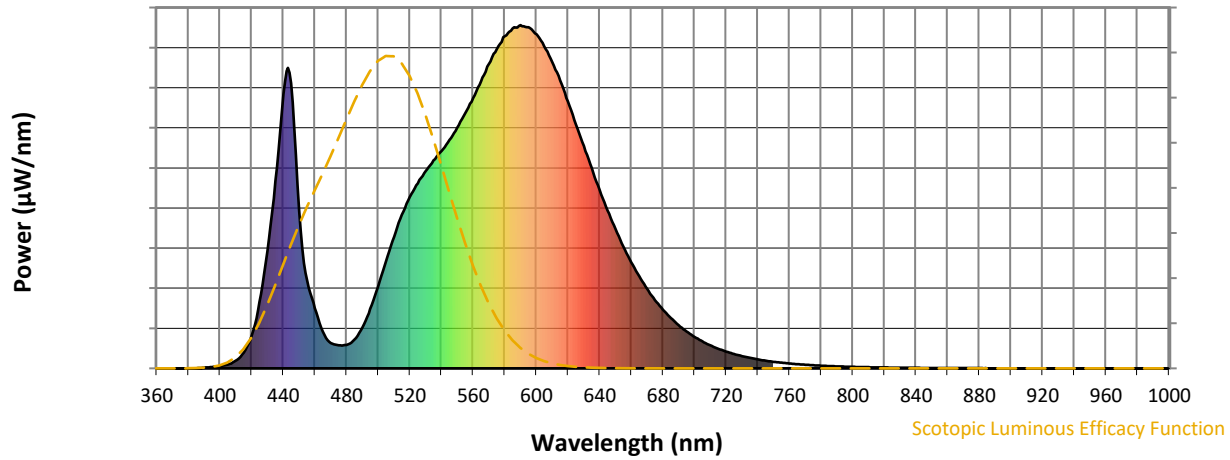


Photopic Lumens: NR

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	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



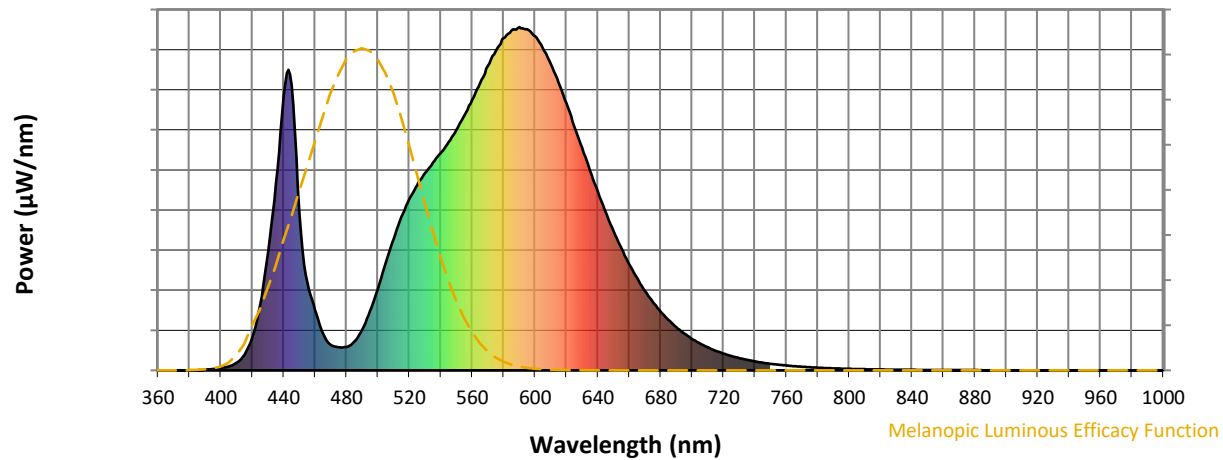
Scotopic Lumens: NR

S/P: 1.29

λ (nm)	Power 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	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

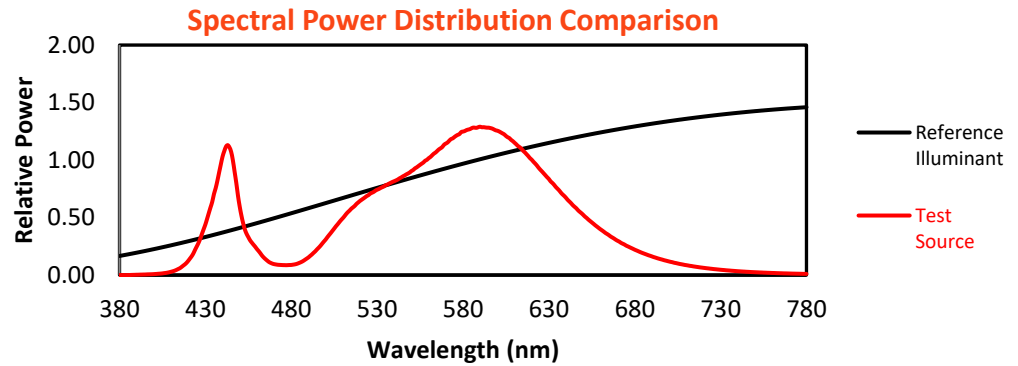
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	119	NR	620	778	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

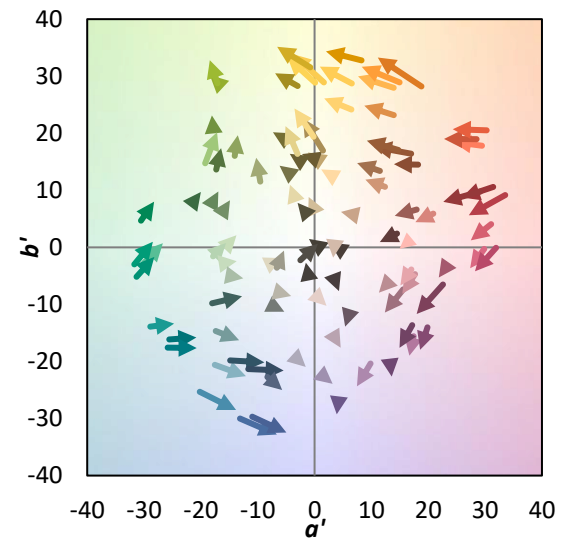
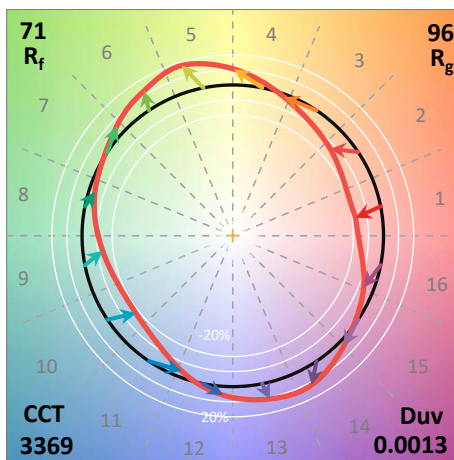
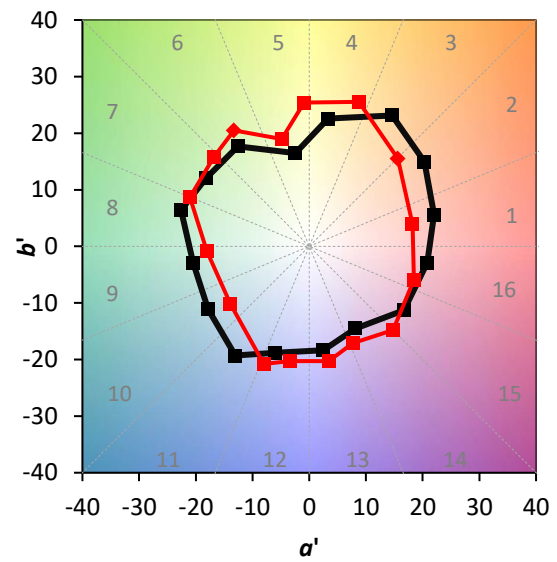
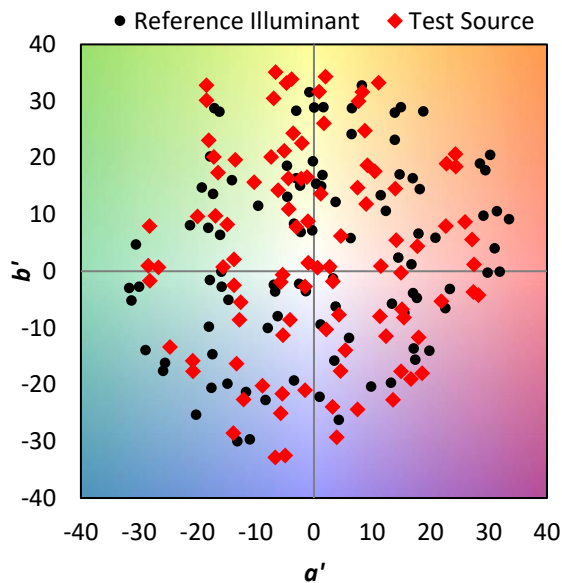
TM-30-18

Summary

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

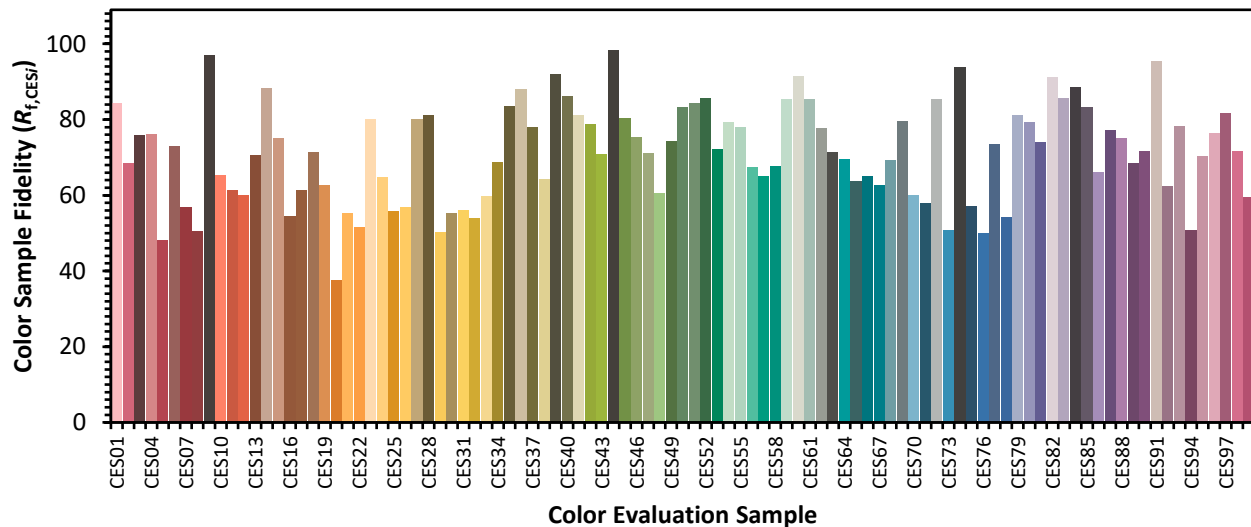


Color Vector Graphics

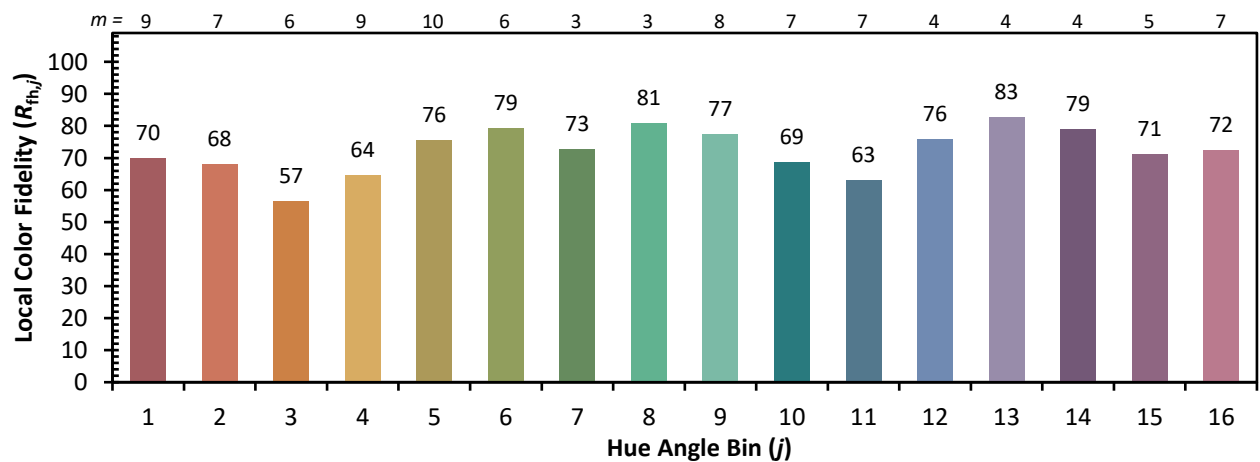
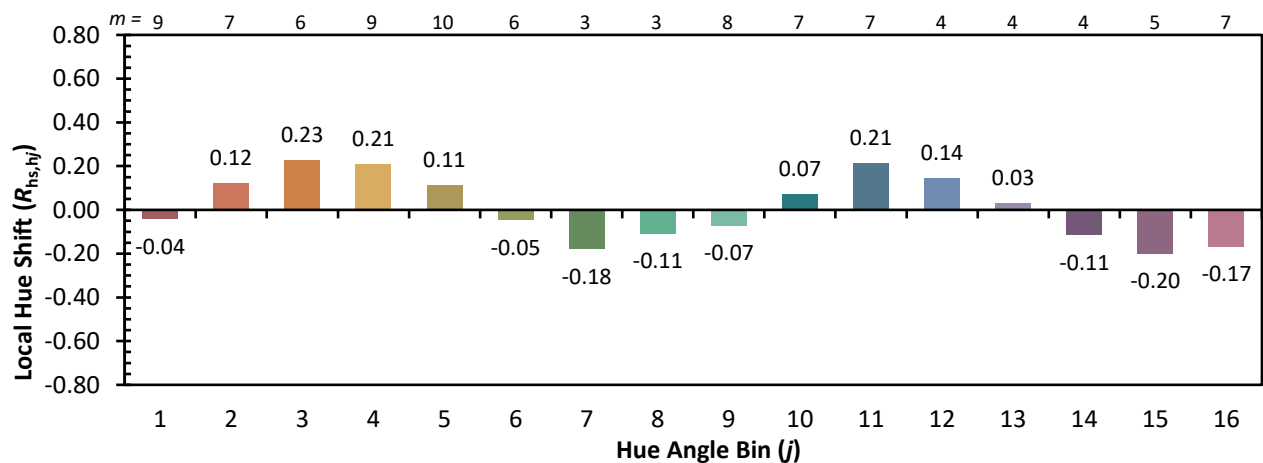
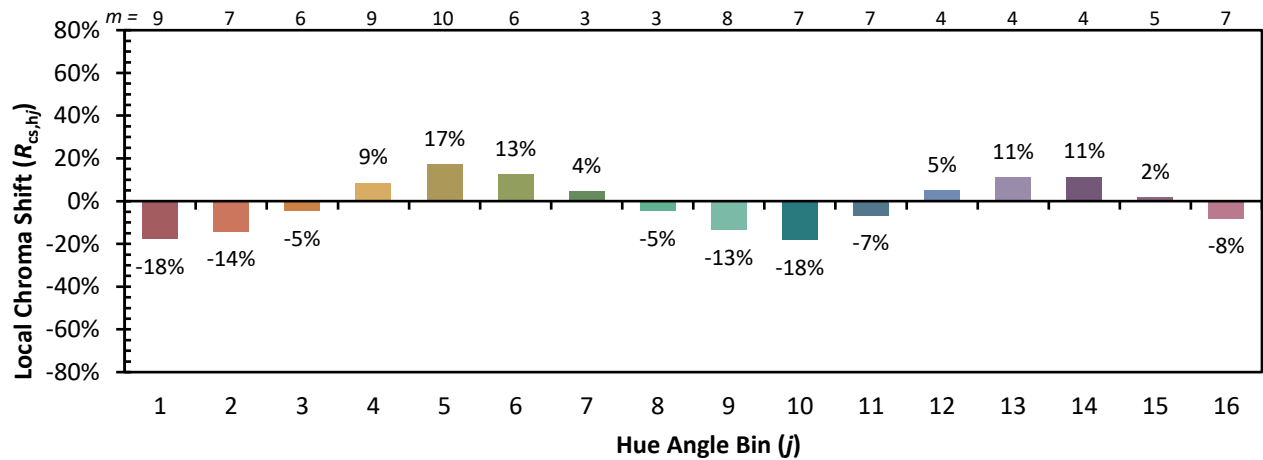


Individual Sample Fidelity Index ($R_{f,i}$)

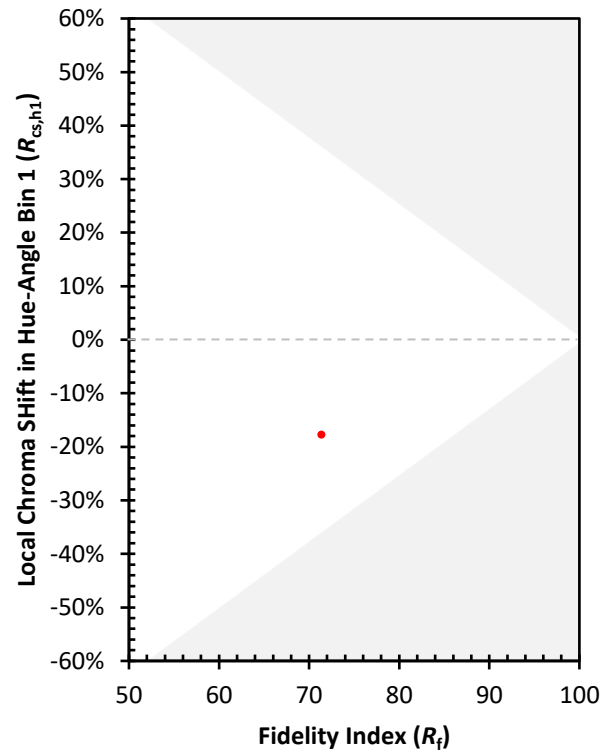
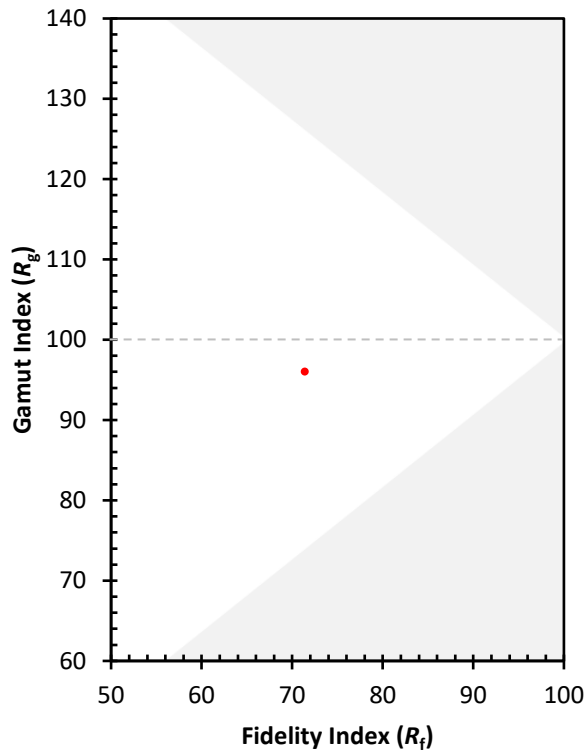
CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82 = 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)