

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: P1067974

Luminaire Tested: **NAV-SA3B-735-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067974
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA3B-735-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 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: 10769.1 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 106.2
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



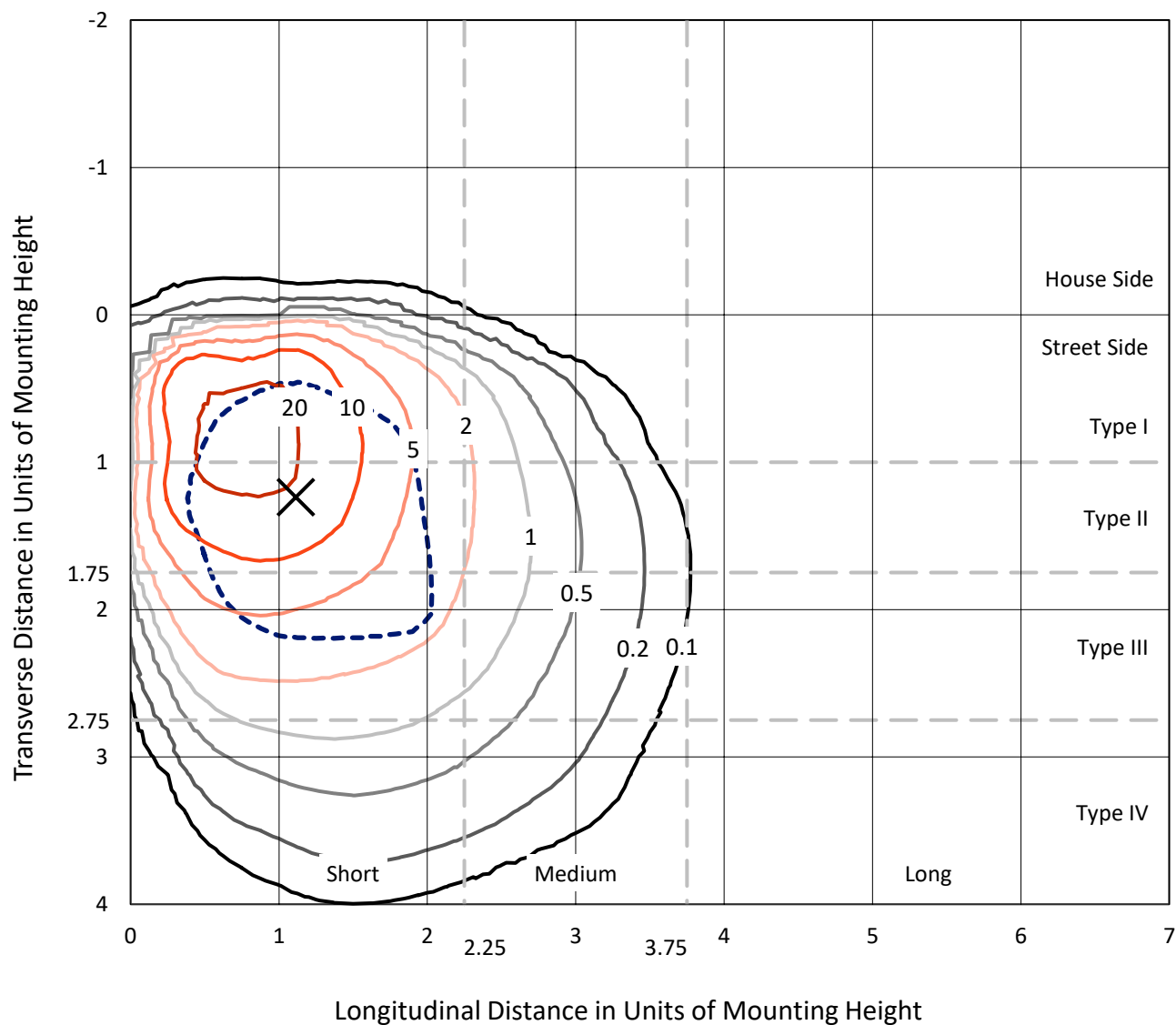
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

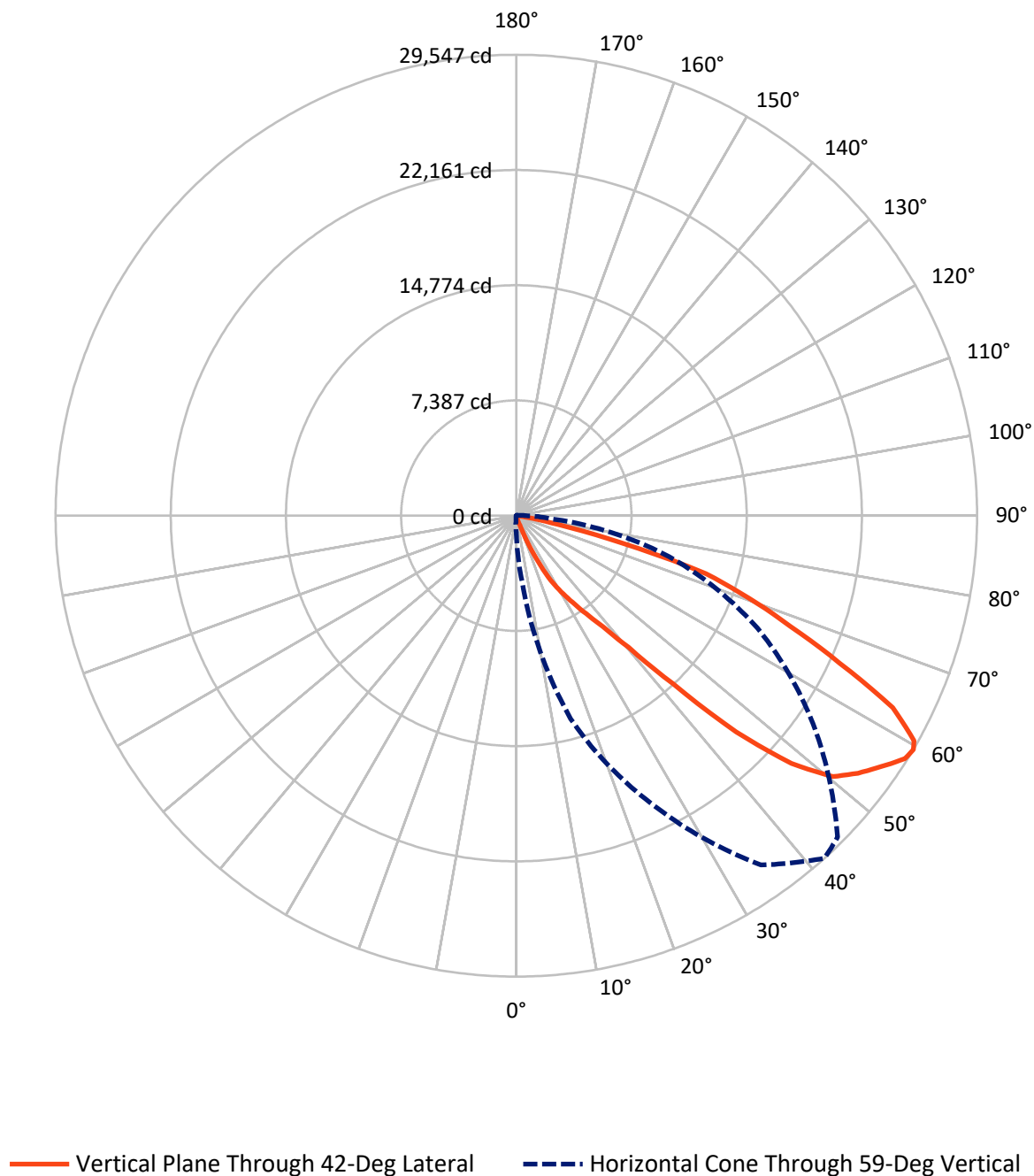


Based on 15 foot mounting height. Maximum calculated value = 32 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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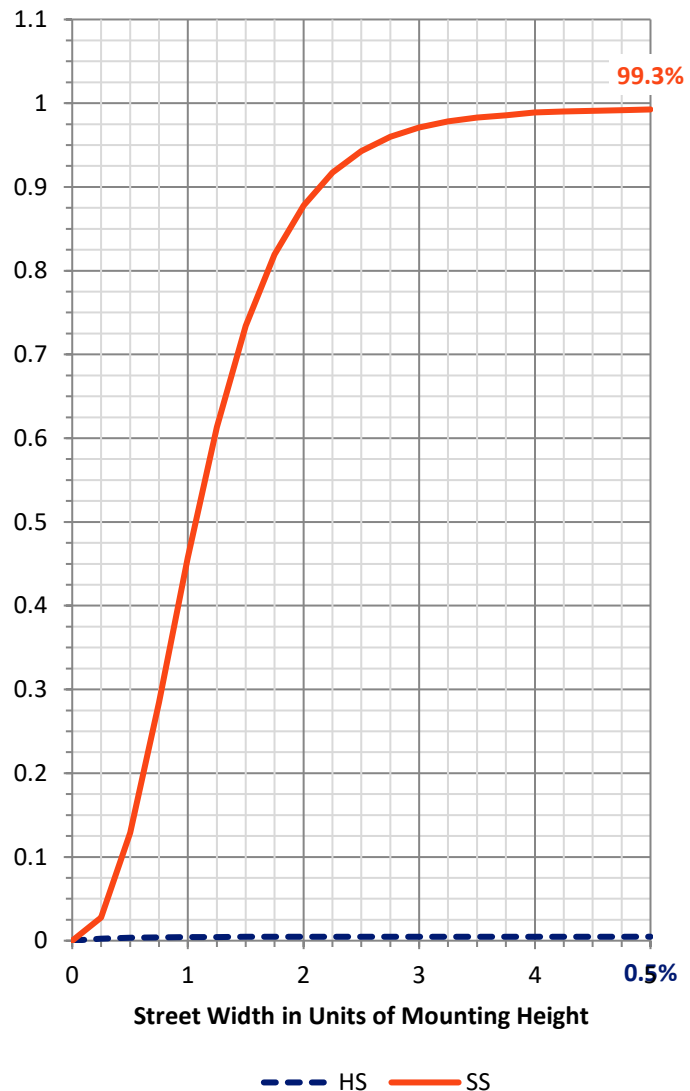
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	51.9	0.0	51.9
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	10717.2	0.0	10717.2
	% Fixture	99.5	0.0	99.5
Total	Lumens	10769.1	0.0	10769.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	0.0
10°-20°	15.7	0.1
20°-30°	200.9	1.9
30°-40°	677.2	6.3
40°-50°	2045.5	19.0
50°-60°	3610.9	33.5
60°-70°	3179.4	29.5
70°-80°	1012.0	9.4
80°-90°	24.2	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°	10769.1	100.0
0°-180°	10769.1	100.0



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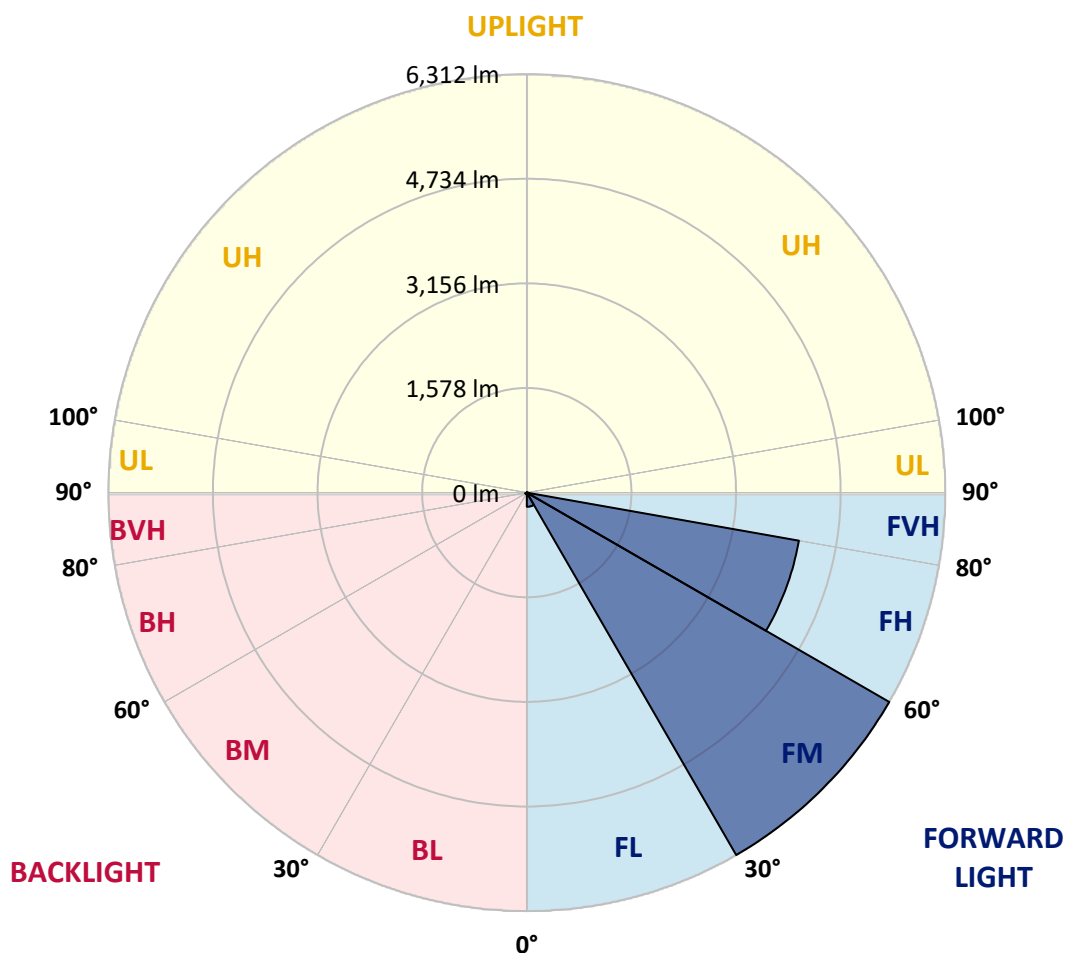
CATALOG NUMBER: NAV-SA3B-735-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	213.9	2.0			
FM	(30°-60°)	6312.5	58.6			
FH	(60°-80°)	4167.7	38.7			G2/5000
FVH	(80°-90°)	23.0	0.2			G1/100
BL	(0°-30°)	5.8	0.1	B0/110		
BM	(30°-60°)	21.2	0.2	B0/220		
BH	(60°-80°)	23.7	0.2	B0/110		G0/110
BVH	(80°-90°)	1.2	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°	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
2.5°	47.3	47.3	43.9	40.5	37.1	33.8	33.8	33.8	30.4	30.4	27.0
5°	54.0	54.0	50.6	47.3	47.3	43.9	43.9	40.5	37.1	37.1	33.8
7.5°	57.4	57.4	57.4	57.4	54.0	54.0	54.0	50.6	47.3	43.9	40.5
10°	60.8	64.2	67.5	67.5	67.5	67.5	67.5	64.2	57.4	54.0	47.3
12.5°	67.5	70.9	77.7	84.4	84.4	87.8	84.4	81.0	74.3	64.2	54.0
15°	74.3	81.0	91.2	104.7	118.2	121.6	121.6	111.4	97.9	77.7	64.2
17.5°	84.4	94.5	121.6	165.4	212.7	249.9	249.9	222.8	155.3	101.3	74.3
20°	91.2	111.4	195.8	398.4	607.8	763.1	732.7	648.3	347.8	158.7	81.0
22.5°	101.3	141.8	415.3	1046.7	1620.7	1904.3	1836.8	1394.5	780.0	283.6	97.9
25°	114.8	206.0	823.9	1961.7	3011.8	3319.1	3275.2	2603.3	1421.5	476.1	124.9
27.5°	141.8	303.9	1320.2	2974.7	4443.4	4706.8	4689.9	3812.0	2272.4	766.5	162.1
30°	179.0	442.3	1958.3	4041.6	5392.2	5659.0	5574.5	4696.7	3065.8	1171.6	209.3
32.5°	222.8	617.9	2535.7	4828.3	6266.7	6617.9	6516.6	5466.5	3704.0	1516.0	310.6
35°	290.4	790.1	3106.3	5523.9	7276.3	7722.0	7553.1	6260.0	4254.3	1904.3	374.8
37.5°	324.1	891.4	3629.7	6280.2	8410.8	9018.5	8890.2	7262.8	4814.8	2400.7	459.2
40°	327.5	1012.9	4173.3	7266.1	10014.6	11098.4	10868.8	8984.8	5858.2	3038.8	590.9
42.5°	337.6	1195.3	4879.0	8947.6	13164.8	14721.4	14461.4	12151.9	8225.1	4318.5	837.4
45°	384.9	1539.7	6317.4	12091.1	17490.1	19772.6	19472.1	16564.9	11530.6	6725.9	1428.2
47.5°	550.4	2316.3	8839.6	15484.5	21913.2	23733.2	23658.9	20042.7	14525.5	9194.1	2420.9
50°	884.6	3555.4	11709.6	18337.6	24729.2	26292.5	26106.8	21494.6	16234.0	10879.0	3103.0
52.5°	1181.8	4740.6	13512.6	19387.6	25570.0	27433.8	27207.5	22024.7	16683.1	11375.3	3292.1
55°	1256.0	5169.4	14049.5	19711.8	26127.1	28399.4	28071.9	22379.2	16740.5	11020.8	2978.0
57.5°	1218.9	4764.2	13701.7	20029.2	26903.7	29392.1	28956.5	23071.4	16933.0	10419.8	2478.3
59°	1154.8	4264.5	13485.6	20282.4	27332.5	29547.4	29138.9	23223.3	17061.3	10146.3	2174.4
60°	1080.5	3926.8	13316.8	20447.9	27305.5	29304.3	28882.3	23152.4	17111.9	9909.9	2029.3
62.5°	834.0	3133.4	13073.7	20329.7	25600.3	27086.0	26846.3	21416.9	16369.1	9153.6	1600.4
65°	648.3	2397.3	12182.3	18131.6	21784.9	22784.4	22710.1	18135.0	13776.0	7890.8	1154.8
67.5°	513.2	1749.0	10301.6	14684.2	17527.2	18948.7	18894.7	14721.4	10456.9	6030.4	830.6
70°	418.7	1245.9	7063.6	11071.4	14019.1	15808.6	15730.9	11848.0	7749.0	3825.5	604.4
72.5°	354.5	796.8	4284.7	8346.6	11699.4	12722.5	12496.3	9558.8	5635.3	2083.3	479.5
75°	300.5	489.6	2123.8	5203.1	6969.0	6962.3	6736.0	5061.3	3025.3	1019.7	381.5
77.5°	243.1	344.4	834.0	1428.2	2198.1	2721.4	2677.5	1792.9	904.9	297.1	236.4
80°	158.7	162.1	222.8	391.7	604.4	668.5	759.7	547.0	263.4	141.8	97.9
82.5°	70.9	77.7	101.3	128.3	128.3	118.2	104.7	77.7	57.4	47.3	23.6
85°	16.9	23.6	16.9	20.3	16.9	13.5	13.5	6.8	0.0	0.0	0.0
87.5°	3.4	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°	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
2.5°	27.0	27.0	27.0	23.6	23.6	23.6	20.3	20.3	20.3	16.9	16.9
5°	33.8	30.4	27.0	27.0	23.6	23.6	20.3	16.9	16.9	16.9	13.5
7.5°	37.1	33.8	30.4	27.0	23.6	20.3	20.3	16.9	13.5	13.5	13.5
10°	43.9	40.5	33.8	27.0	23.6	20.3	16.9	16.9	13.5	10.1	10.1
12.5°	50.6	43.9	37.1	30.4	23.6	20.3	16.9	16.9	13.5	10.1	6.8
15°	57.4	50.6	40.5	30.4	23.6	20.3	16.9	16.9	10.1	6.8	3.4
17.5°	64.2	54.0	40.5	33.8	23.6	20.3	16.9	13.5	6.8	3.4	0.0
20°	67.5	57.4	43.9	33.8	23.6	20.3	16.9	10.1	3.4	0.0	0.0
22.5°	74.3	64.2	47.3	33.8	23.6	16.9	10.1	3.4	0.0	0.0	0.0
25°	87.8	67.5	47.3	33.8	23.6	16.9	6.8	0.0	0.0	0.0	0.0
27.5°	97.9	74.3	47.3	33.8	23.6	13.5	3.4	0.0	0.0	0.0	0.0
30°	114.8	81.0	50.6	33.8	23.6	10.1	3.4	0.0	0.0	0.0	0.0
32.5°	141.8	87.8	50.6	33.8	20.3	10.1	0.0	0.0	0.0	0.0	0.0
35°	172.2	101.3	50.6	33.8	20.3	10.1	0.0	0.0	0.0	0.0	0.0
37.5°	175.6	108.0	50.6	33.8	20.3	6.8	0.0	0.0	0.0	0.0	0.0
40°	182.3	101.3	54.0	33.8	20.3	6.8	0.0	0.0	0.0	0.0	0.0
42.5°	209.3	94.5	57.4	33.8	20.3	6.8	0.0	0.0	0.0	0.0	0.0
45°	310.6	97.9	57.4	37.1	20.3	10.1	0.0	0.0	0.0	0.0	0.0
47.5°	540.2	101.3	54.0	37.1	20.3	10.1	0.0	0.0	0.0	0.0	0.0
50°	692.2	118.2	54.0	40.5	23.6	6.8	0.0	0.0	0.0	0.0	0.0
52.5°	736.1	138.4	54.0	43.9	30.4	3.4	0.0	0.0	0.0	0.0	0.0
55°	715.8	162.1	57.4	47.3	37.1	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	661.8	175.6	60.8	50.6	40.5	0.0	0.0	0.0	0.0	0.0	0.0
59°	604.4	185.7	70.9	54.0	40.5	0.0	0.0	0.0	0.0	0.0	0.0
60°	557.1	195.8	74.3	57.4	40.5	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	449.1	209.3	81.0	67.5	33.8	0.0	0.0	0.0	0.0	0.0	0.0
65°	391.7	219.5	84.4	74.3	30.4	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	357.9	226.2	91.2	77.7	27.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	330.9	222.8	97.9	74.3	23.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	300.5	212.7	118.2	67.5	20.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	270.1	192.5	128.3	60.8	13.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	195.8	162.1	118.2	54.0	6.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	84.4	87.8	84.4	40.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.9	20.3	16.9	10.1	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°	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
2.5°	16.9	16.9	16.9	16.9	20.3	20.3	27.0	33.8	40.5	43.9	43.9
5°	13.5	13.5	13.5	13.5	13.5	16.9	20.3	27.0	37.1	40.5	40.5
7.5°	10.1	10.1	10.1	10.1	10.1	10.1	16.9	23.6	33.8	37.1	40.5
10°	10.1	6.8	6.8	3.4	3.4	6.8	10.1	20.3	30.4	33.8	37.1
12.5°	6.8	3.4	3.4	0.0	0.0	3.4	6.8	16.9	27.0	30.4	33.8
15°	3.4	0.0	0.0	0.0	0.0	0.0	3.4	13.5	23.6	27.0	33.8
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.1	20.3	27.0	30.4
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	16.9	23.6	27.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	13.5	20.3	23.6
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.1	13.5	16.9
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	10.1	13.5
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	10.1	13.5
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	6.8	10.1
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	6.8	10.1
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	6.8	6.8
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	6.8
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	6.8
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	6.8
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	6.8
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	6.8
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	6.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	6.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4
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°	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
2.5°	47.3	47.3	43.9	40.5	40.5	40.5	43.9	47.3	47.3	47.3
5°	43.9	43.9	40.5	40.5	40.5	40.5	43.9	50.6	54.0	54.0
7.5°	43.9	43.9	40.5	40.5	40.5	40.5	43.9	50.6	54.0	57.4
10°	40.5	40.5	40.5	40.5	37.1	40.5	43.9	50.6	60.8	60.8
12.5°	40.5	40.5	40.5	40.5	37.1	40.5	47.3	54.0	64.2	67.5
15°	40.5	40.5	40.5	37.1	37.1	40.5	47.3	57.4	67.5	74.3
17.5°	37.1	40.5	40.5	37.1	37.1	40.5	47.3	57.4	74.3	84.4
20°	33.8	37.1	40.5	37.1	37.1	37.1	47.3	57.4	77.7	91.2
22.5°	30.4	33.8	37.1	37.1	33.8	37.1	47.3	60.8	84.4	101.3
25°	27.0	30.4	30.4	33.8	33.8	37.1	47.3	60.8	87.8	114.8
27.5°	20.3	23.6	27.0	30.4	30.4	37.1	47.3	64.2	94.5	141.8
30°	16.9	20.3	23.6	27.0	30.4	37.1	47.3	64.2	101.3	179.0
32.5°	16.9	20.3	23.6	27.0	30.4	33.8	47.3	67.5	111.4	222.8
35°	13.5	16.9	20.3	27.0	27.0	33.8	47.3	67.5	121.6	290.4
37.5°	13.5	16.9	20.3	27.0	27.0	33.8	47.3	67.5	148.6	324.1
40°	10.1	13.5	16.9	27.0	27.0	33.8	50.6	70.9	151.9	327.5
42.5°	10.1	13.5	16.9	23.6	27.0	33.8	50.6	70.9	141.8	337.6
45°	10.1	13.5	16.9	27.0	30.4	37.1	50.6	74.3	138.4	384.9
47.5°	10.1	13.5	16.9	27.0	33.8	37.1	50.6	74.3	141.8	550.4
50°	10.1	13.5	16.9	27.0	37.1	37.1	50.6	74.3	155.3	884.6
52.5°	6.8	10.1	13.5	23.6	30.4	40.5	54.0	70.9	165.4	1181.8
55°	6.8	6.8	10.1	20.3	27.0	43.9	57.4	70.9	192.5	1256.0
57.5°	6.8	6.8	10.1	16.9	23.6	47.3	60.8	70.9	222.8	1218.9
59°	6.8	6.8	6.8	16.9	20.3	47.3	60.8	74.3	226.2	1154.8
60°	6.8	6.8	6.8	13.5	20.3	47.3	64.2	77.7	229.6	1080.5
62.5°	3.4	3.4	3.4	13.5	16.9	47.3	70.9	94.5	236.4	834.0
65°	6.8	6.8	3.4	10.1	16.9	40.5	81.0	101.3	239.7	648.3
67.5°	6.8	6.8	6.8	13.5	16.9	40.5	84.4	104.7	239.7	513.2
70°	6.8	6.8	6.8	13.5	20.3	40.5	84.4	108.0	236.4	418.7
72.5°	6.8	6.8	6.8	13.5	20.3	37.1	77.7	111.4	226.2	354.5
75°	6.8	6.8	6.8	10.1	16.9	33.8	74.3	121.6	206.0	300.5
77.5°	6.8	6.8	6.8	6.8	13.5	27.0	67.5	135.1	182.3	243.1
80°	10.1	6.8	6.8	6.8	10.1	23.6	64.2	131.7	151.9	158.7
82.5°	10.1	6.8	6.8	3.4	6.8	16.9	50.6	101.3	77.7	70.9
85°	6.8	6.8	6.8	3.4	3.4	10.1	23.6	30.4	23.6	16.9
87.5°	6.8	6.8	6.8	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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

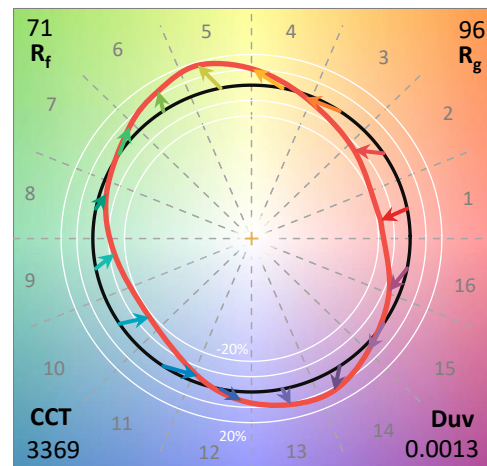
Data in this report applies to families of products including GSS-SB1A-735-U-5WQ

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

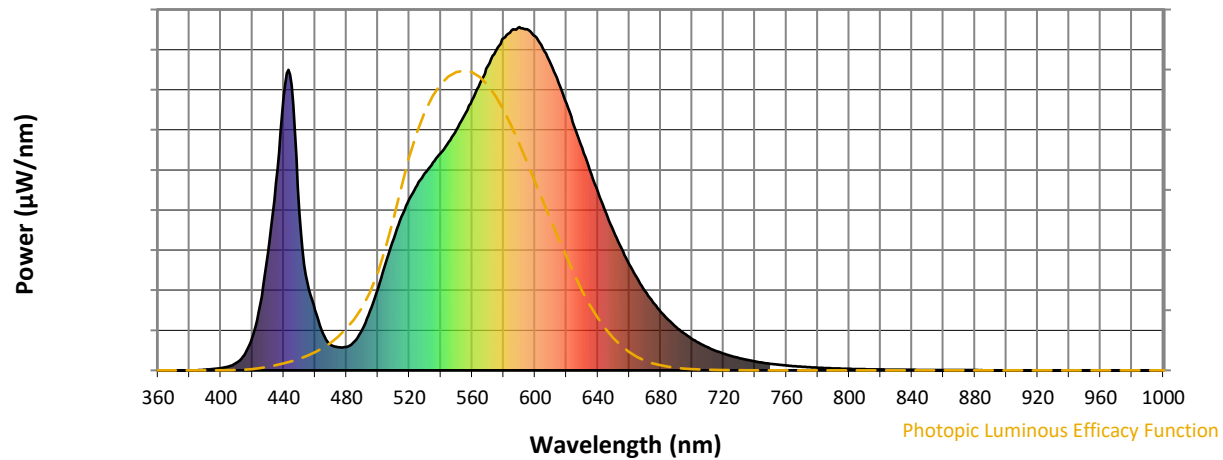
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

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

REPORT NUMBER: SP1-2407-184-5

Photopic Flux vs. Wavelength

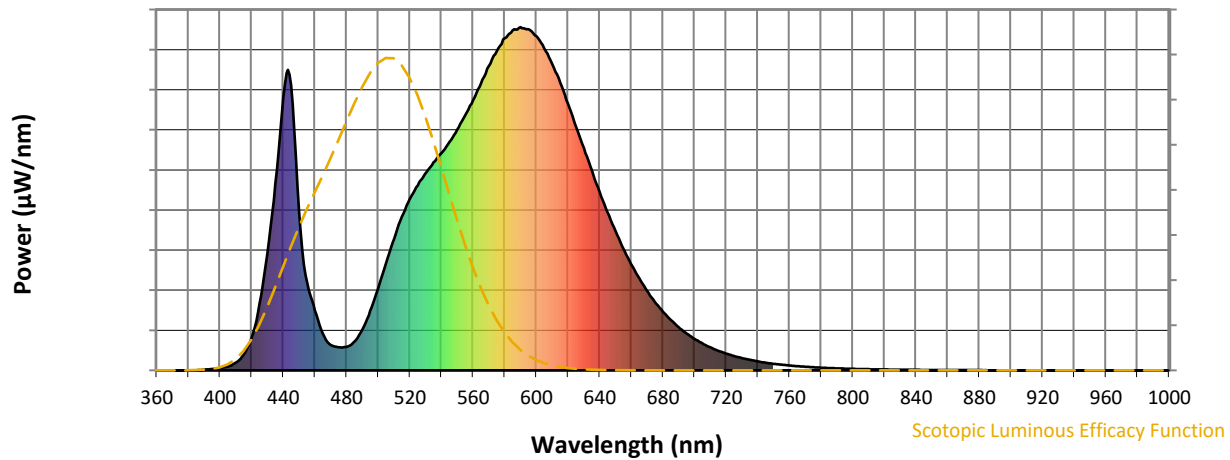


Photopic Lumens: NR

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



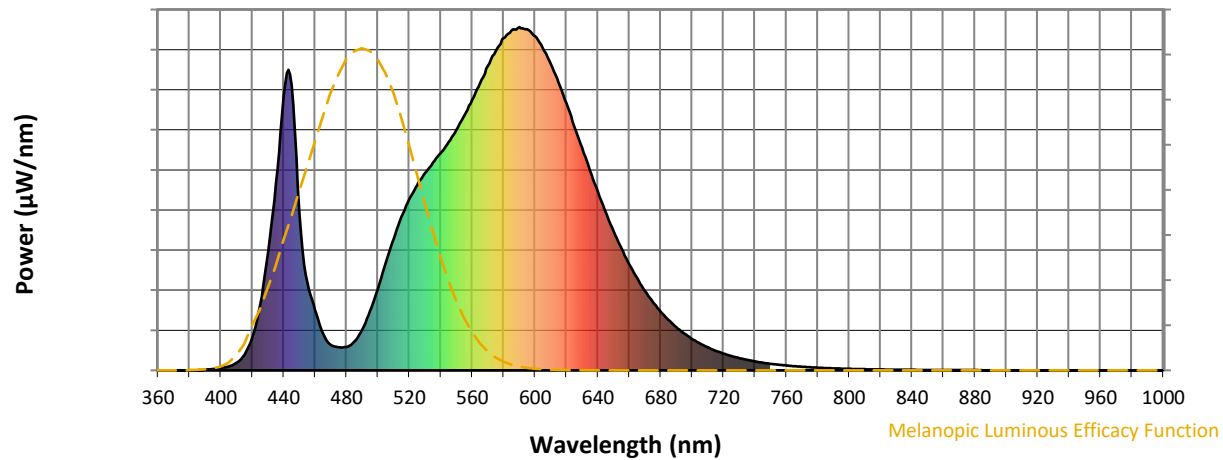
Scotopic Lumens: NR

S/P: 1.29

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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

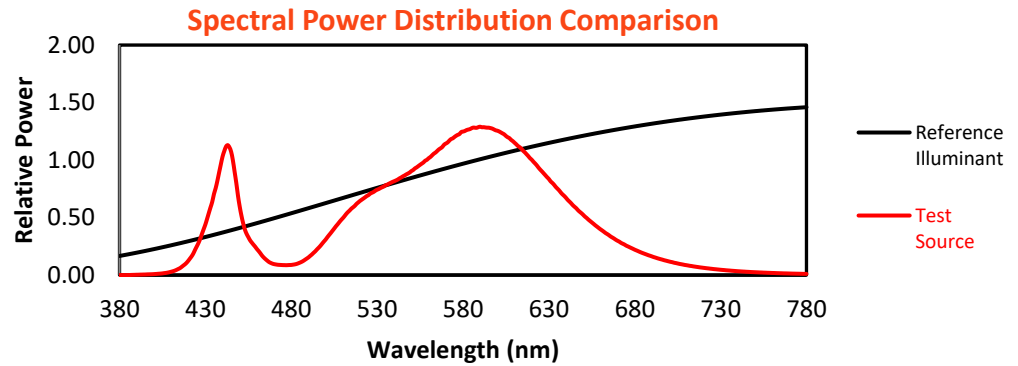
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	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			

REPORT NUMBER: SP1-2407-184-5

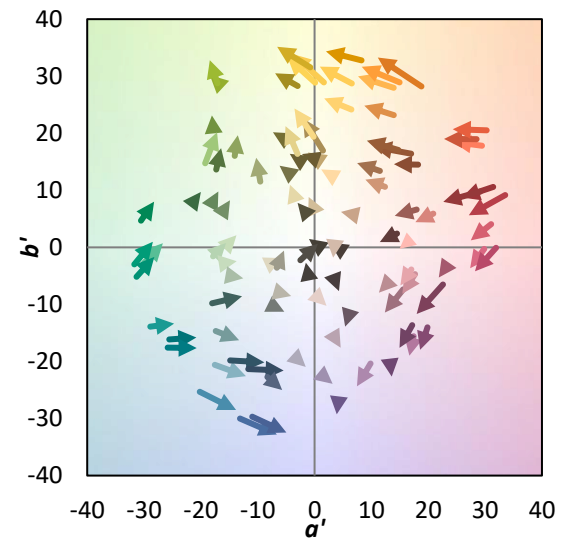
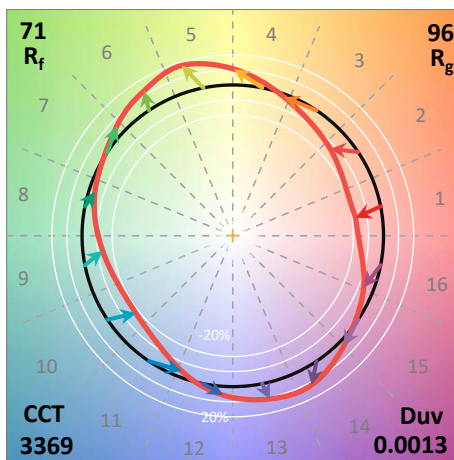
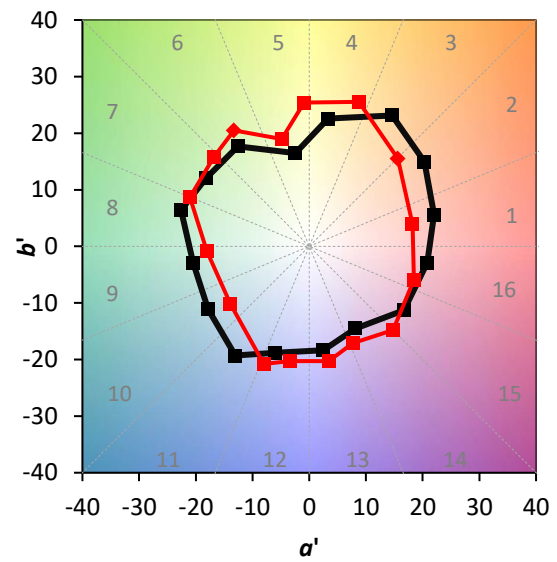
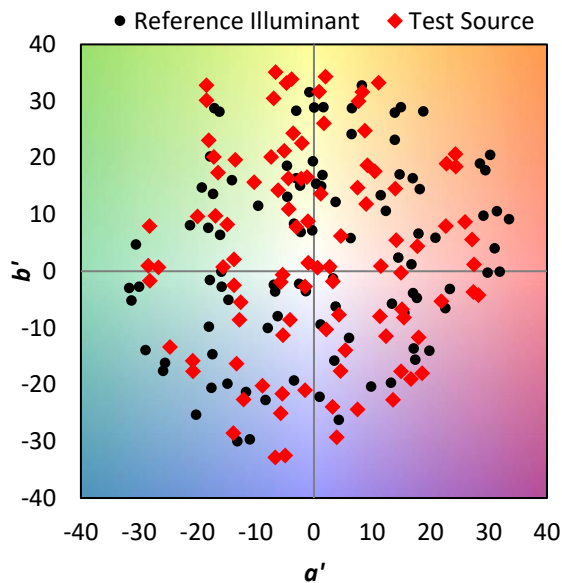
TM-30-18

Summary

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

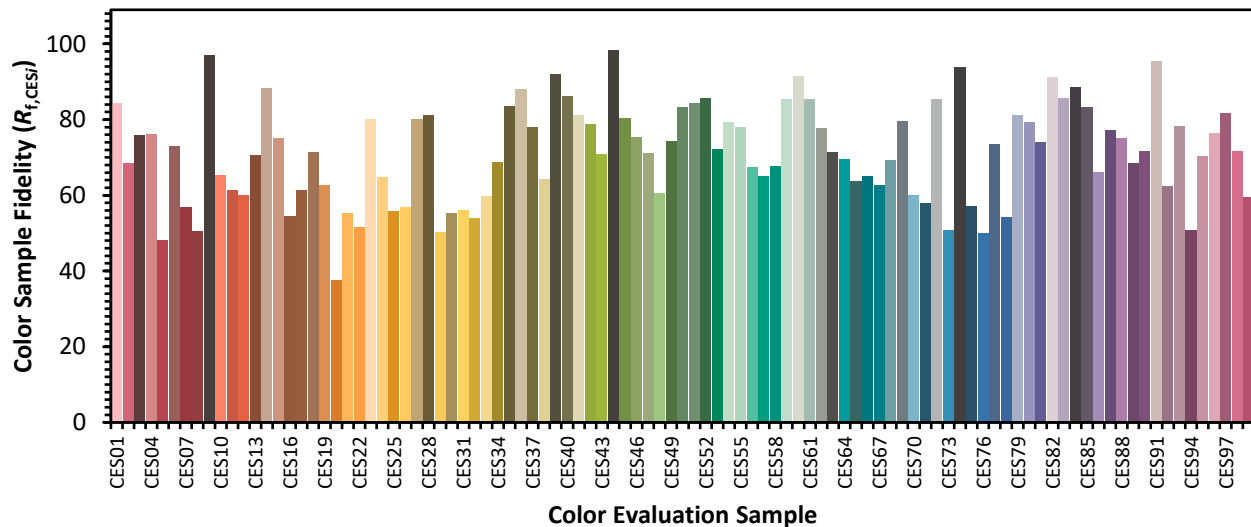


Color Vector Graphics

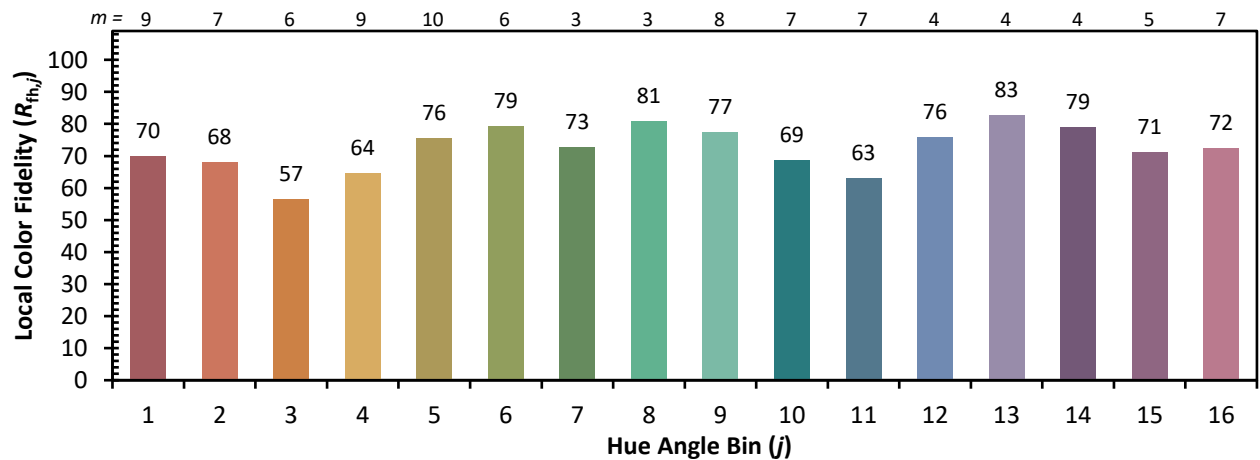
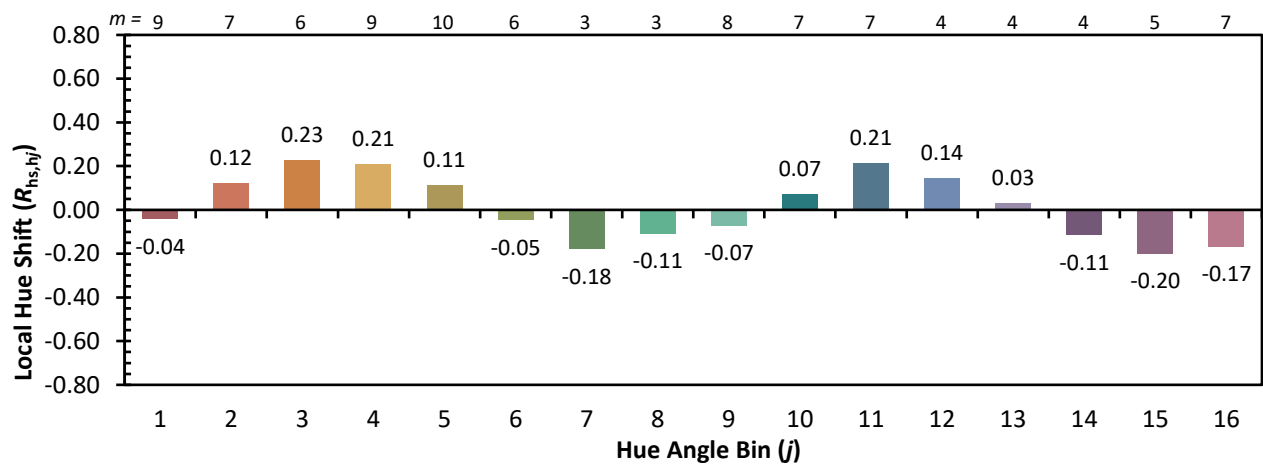
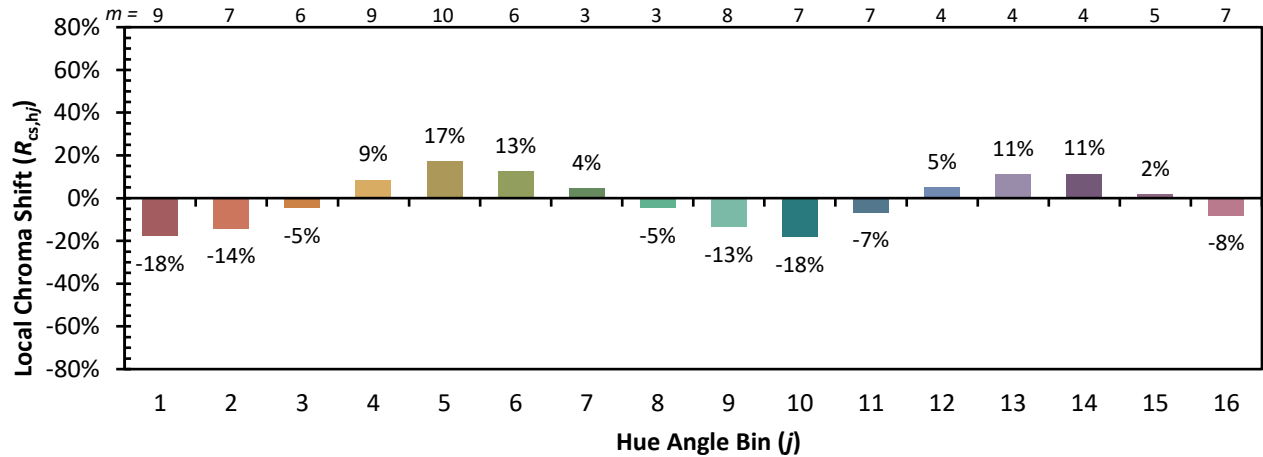


Individual Sample Fidelity Index ($R_{f,i}$)

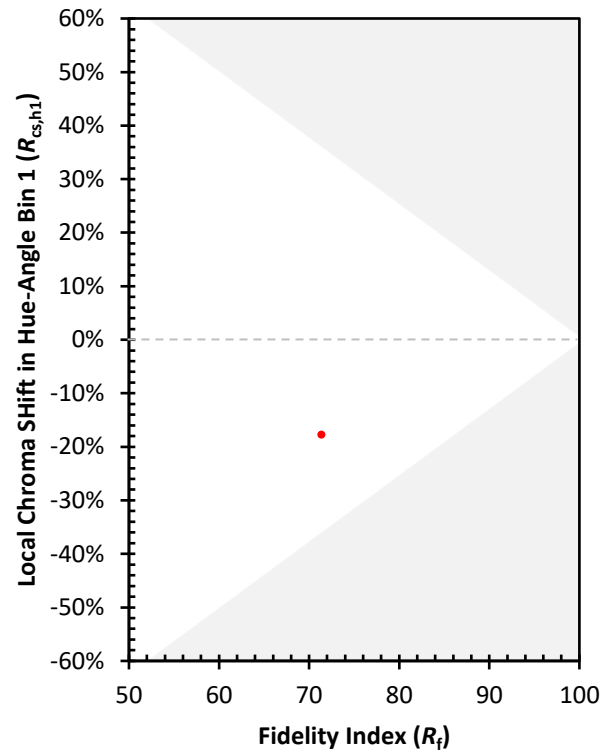
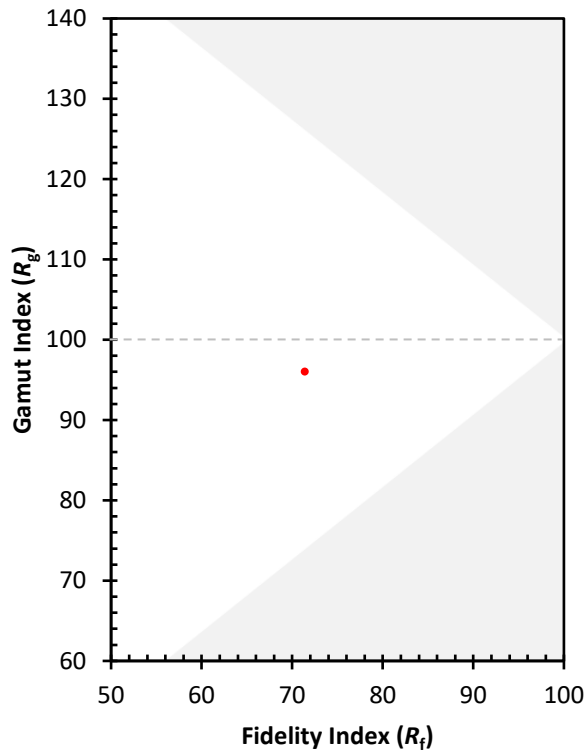
CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82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