

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: P1067982

Luminaire Tested: **NAV-SA5B-735-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067982
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA5B-735-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 5xLight Square PACKAGE
70CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17835.9 lumens
Efficiency: N/A
Efficacy: 99.8 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): 178.8
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



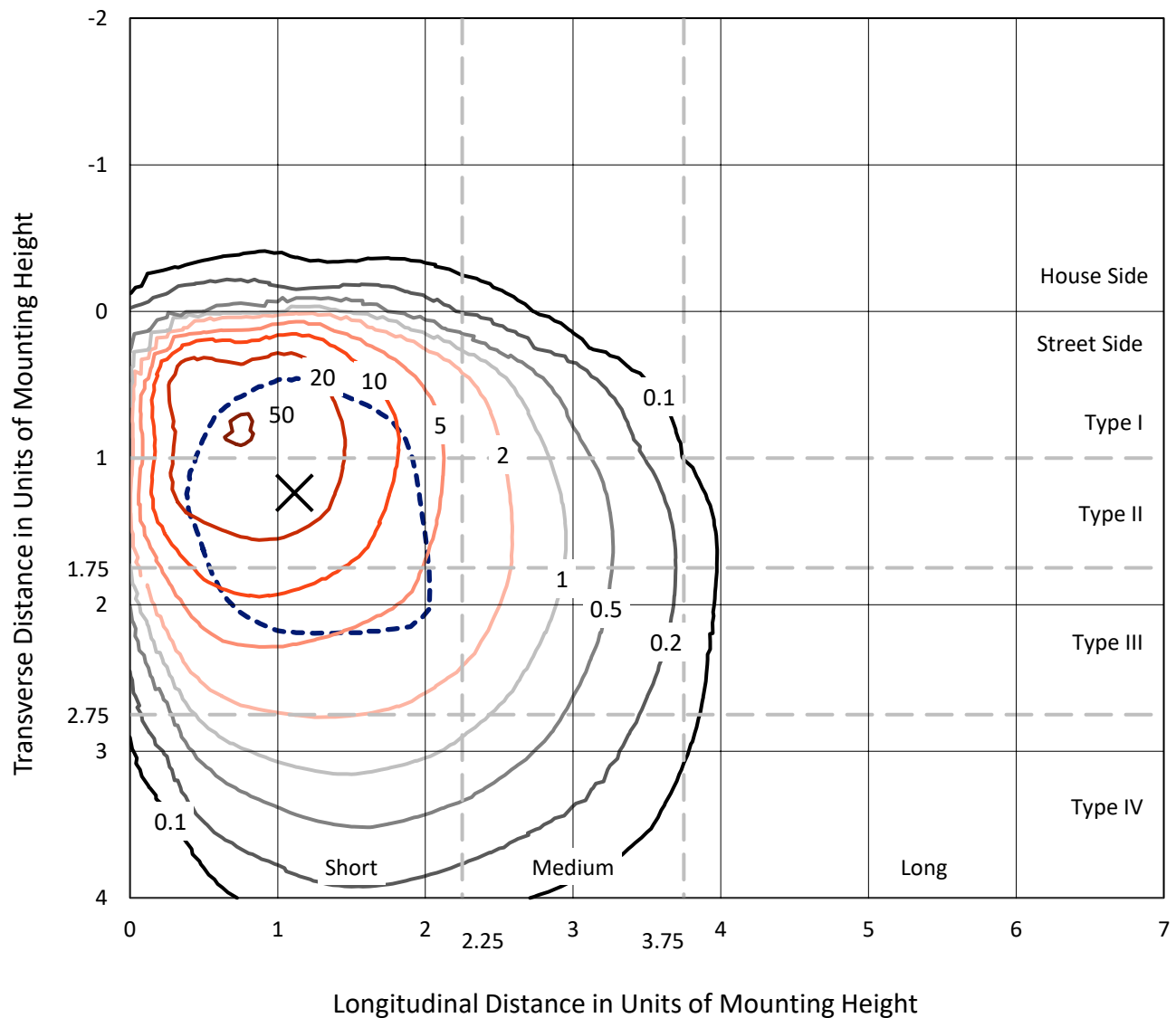
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

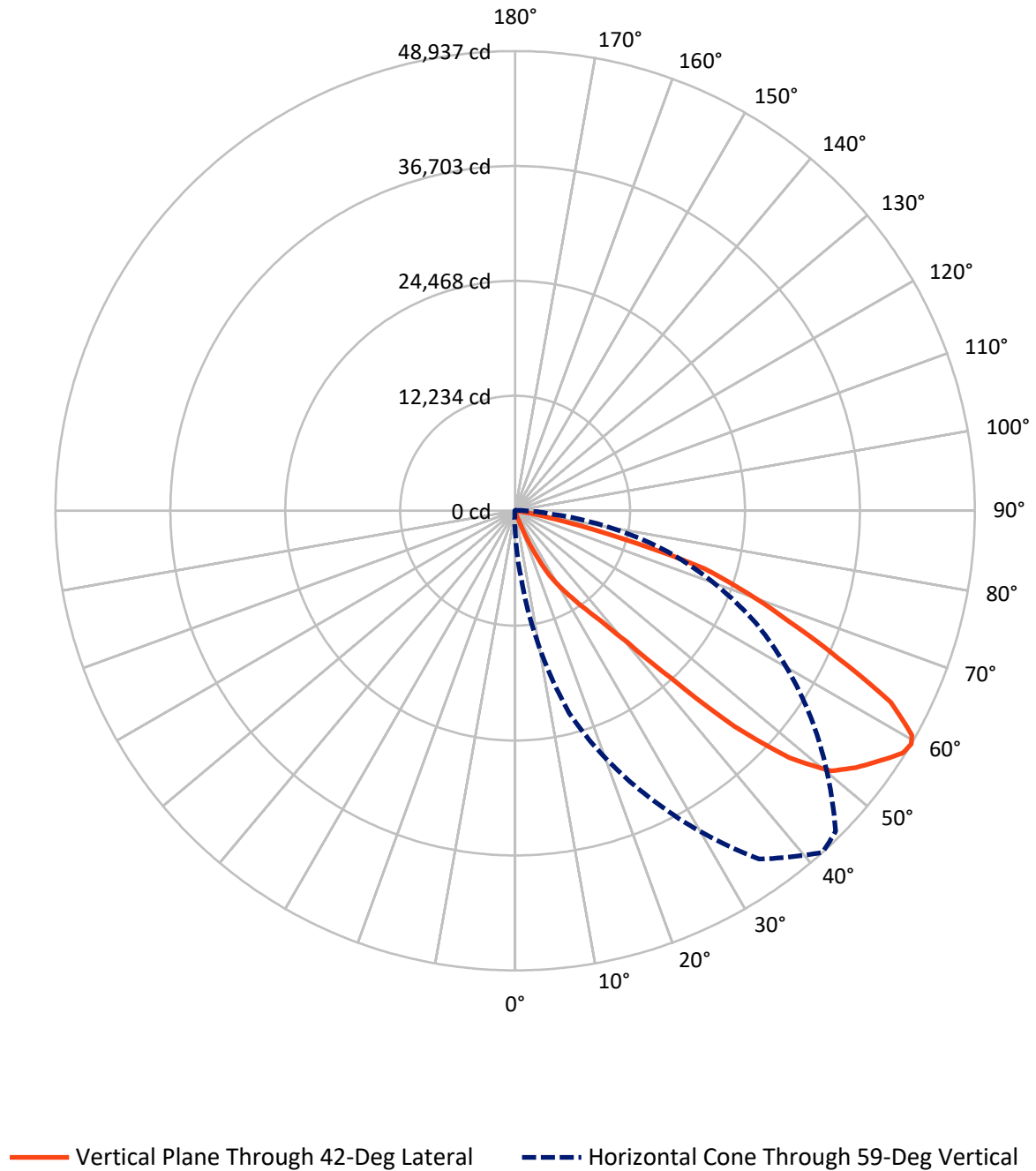


Based on 15 foot mounting height. Maximum calculated value = 53 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	85.9	0.0	85.9
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	17750.0	0.0	17750.0
	% Fixture	99.5	0.0	99.5
Total	Lumens	17835.9	0.0	17835.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.2	0.0
10°-20°	26.0	0.1
20°-30°	332.7	1.9
30°-40°	1121.6	6.3
40°-50°	3387.9	19.0
50°-60°	5980.4	33.5
60°-70°	5265.8	29.5
70°-80°	1676.1	9.4
80°-90°	40.1	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°	17835.9	100.0
0°-180°	17835.9	100.0



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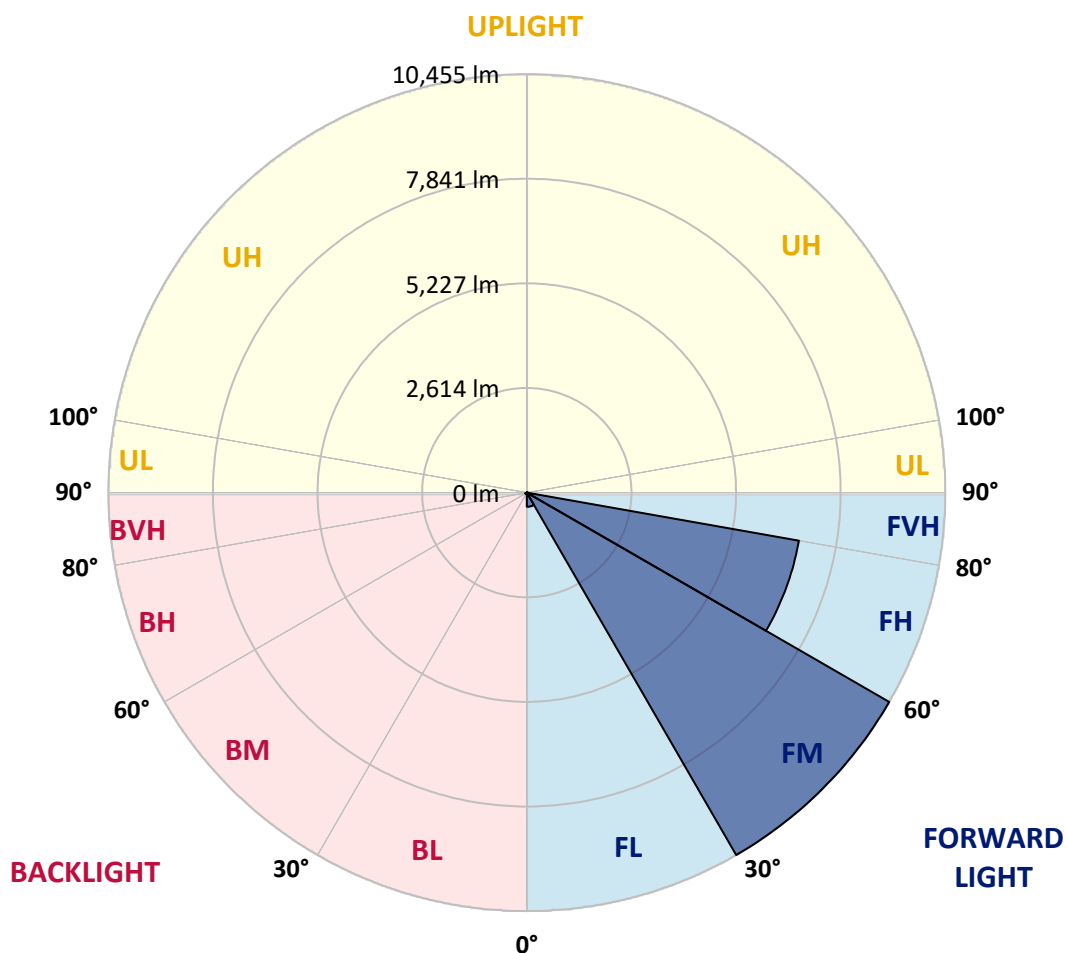
CATALOG NUMBER: NAV-SA5B-735-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	354.3	2.0			
FM	(30°-60°)	10454.8	58.6			
FH	(60°-80°)	6902.7	38.7			G3/7500
FVH	(80°-90°)	38.2	0.2			G1/100
BL	(0°-30°)	9.6	0.1	B0/110		
BM	(30°-60°)	35.1	0.2	B0/220		
BH	(60°-80°)	39.3	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°	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
2.5°	78.3	78.3	72.7	67.1	61.5	55.9	55.9	55.9	50.3	50.3	44.7
5°	89.5	89.5	83.9	78.3	78.3	72.7	72.7	67.1	61.5	61.5	55.9
7.5°	95.1	95.1	95.1	95.1	89.5	89.5	89.5	83.9	78.3	72.7	67.1
10°	100.7	106.3	111.8	111.8	111.8	111.8	111.8	106.3	95.1	89.5	78.3
12.5°	111.8	117.4	128.6	139.8	139.8	145.4	139.8	134.2	123.0	106.3	89.5
15°	123.0	134.2	151.0	173.4	195.7	201.3	201.3	184.5	162.2	128.6	106.3
17.5°	139.8	156.6	201.3	274.0	352.3	413.8	413.8	369.1	257.2	167.8	123.0
20°	151.0	184.5	324.3	659.9	1006.6	1263.8	1213.5	1073.7	576.0	262.8	134.2
22.5°	167.8	234.9	687.8	1733.6	2684.2	3154.0	3042.1	2309.6	1291.8	469.7	162.2
25°	190.1	341.1	1364.5	3249.0	4988.2	5497.1	5424.4	4311.5	2354.3	788.5	206.9
27.5°	234.9	503.3	2186.5	4926.7	7359.3	7795.5	7767.5	6313.5	3763.5	1269.4	268.4
30°	296.4	732.6	3243.4	6693.8	8930.7	9372.4	9232.6	7778.7	5077.7	1940.5	346.7
32.5°	369.1	1023.4	4199.7	7996.8	10379.0	10960.6	10792.8	9053.7	6134.6	2510.9	514.5
35°	480.9	1308.6	5144.8	9148.8	12051.1	12789.2	12509.6	10367.8	7046.1	3154.0	620.7
37.5°	536.8	1476.3	6011.6	10401.4	13930.0	14936.6	14724.1	12028.7	7974.4	3976.0	760.5
40°	542.4	1677.6	6911.9	12034.3	16586.3	18381.4	18001.1	14880.7	9702.4	5032.9	978.6
42.5°	559.2	1979.6	8080.7	14819.2	21803.8	24381.8	23951.2	20126.1	13622.5	7152.4	1386.9
45°	637.5	2550.0	10462.9	20025.5	28967.3	32747.6	32249.9	27435.1	19097.2	11139.6	2365.5
47.5°	911.5	3836.2	14640.2	25645.6	36293.0	39307.2	39184.2	33195.0	24057.4	15227.4	4009.6
50°	1465.1	5888.5	19393.6	30370.9	40956.9	43546.0	43238.5	35599.6	26887.0	18017.9	5139.2
52.5°	1957.3	7851.4	22379.8	32110.1	42349.3	45436.2	45061.5	36477.6	27630.8	18839.9	5452.3
55°	2080.3	8561.6	23268.9	32646.9	43272.0	47035.5	46493.1	37064.7	27725.9	18252.8	4932.3
57.5°	2018.8	7890.5	22692.9	33172.6	44558.2	48679.6	47958.2	38211.1	28044.6	17257.4	4104.6
59°	1912.5	7062.9	22335.0	33592.0	45268.4	48936.9	48260.2	38462.8	28257.1	16804.4	3601.3
60°	1789.5	6503.7	22055.4	33866.0	45223.7	48534.2	47835.2	38345.3	28341.0	16412.9	3360.9
62.5°	1381.3	5189.5	21652.8	33670.3	42399.7	44860.2	44463.2	35471.0	27110.7	15160.3	2650.7
65°	1073.7	3970.4	20176.5	30029.8	36080.5	37735.8	37612.8	30035.4	22816.0	13068.8	1912.5
67.5°	850.0	2896.7	17061.6	24320.2	29028.8	31383.1	31293.6	24381.8	17318.9	9987.6	1375.7
70°	693.4	2063.5	11698.8	18336.6	23218.6	26182.4	26053.8	19622.8	12834.0	6335.9	1001.0
72.5°	587.2	1319.7	7096.4	13823.8	19376.8	21071.2	20696.5	15831.4	9333.3	3450.4	794.1
75°	497.7	810.9	3517.5	8617.5	11542.2	11531.0	11156.3	8382.6	5010.6	1688.8	631.9
77.5°	402.6	570.4	1381.3	2365.5	3640.5	4507.3	4434.6	2969.4	1498.7	492.1	391.5
80°	262.8	268.4	369.1	648.7	1001.0	1107.2	1258.2	905.9	436.2	234.9	162.2
82.5°	117.4	128.6	167.8	212.5	212.5	195.7	173.4	128.6	95.1	78.3	39.1
85°	28.0	39.1	28.0	33.6	28.0	22.4	22.4	11.2	0.0	0.0	0.0
87.5°	5.6	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°	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
2.5°	44.7	44.7	44.7	39.1	39.1	39.1	33.6	33.6	33.6	28.0	28.0
5°	55.9	50.3	44.7	44.7	39.1	39.1	33.6	28.0	28.0	28.0	22.4
7.5°	61.5	55.9	50.3	44.7	39.1	33.6	33.6	28.0	22.4	22.4	22.4
10°	72.7	67.1	55.9	44.7	39.1	33.6	28.0	28.0	22.4	16.8	16.8
12.5°	83.9	72.7	61.5	50.3	39.1	33.6	28.0	28.0	22.4	16.8	11.2
15°	95.1	83.9	67.1	50.3	39.1	33.6	28.0	28.0	16.8	11.2	5.6
17.5°	106.3	89.5	67.1	55.9	39.1	33.6	28.0	22.4	11.2	5.6	0.0
20°	111.8	95.1	72.7	55.9	39.1	33.6	28.0	16.8	5.6	0.0	0.0
22.5°	123.0	106.3	78.3	55.9	39.1	28.0	16.8	5.6	0.0	0.0	0.0
25°	145.4	111.8	78.3	55.9	39.1	28.0	11.2	0.0	0.0	0.0	0.0
27.5°	162.2	123.0	78.3	55.9	39.1	22.4	5.6	0.0	0.0	0.0	0.0
30°	190.1	134.2	83.9	55.9	39.1	16.8	5.6	0.0	0.0	0.0	0.0
32.5°	234.9	145.4	83.9	55.9	33.6	16.8	0.0	0.0	0.0	0.0	0.0
35°	285.2	167.8	83.9	55.9	33.6	16.8	0.0	0.0	0.0	0.0	0.0
37.5°	290.8	178.9	83.9	55.9	33.6	11.2	0.0	0.0	0.0	0.0	0.0
40°	302.0	167.8	89.5	55.9	33.6	11.2	0.0	0.0	0.0	0.0	0.0
42.5°	346.7	156.6	95.1	55.9	33.6	11.2	0.0	0.0	0.0	0.0	0.0
45°	514.5	162.2	95.1	61.5	33.6	16.8	0.0	0.0	0.0	0.0	0.0
47.5°	894.7	167.8	89.5	61.5	33.6	16.8	0.0	0.0	0.0	0.0	0.0
50°	1146.4	195.7	89.5	67.1	39.1	11.2	0.0	0.0	0.0	0.0	0.0
52.5°	1219.1	229.3	89.5	72.7	50.3	5.6	0.0	0.0	0.0	0.0	0.0
55°	1185.5	268.4	95.1	78.3	61.5	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1096.1	290.8	100.7	83.9	67.1	0.0	0.0	0.0	0.0	0.0	0.0
59°	1001.0	307.6	117.4	89.5	67.1	0.0	0.0	0.0	0.0	0.0	0.0
60°	922.7	324.3	123.0	95.1	67.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	743.8	346.7	134.2	111.8	55.9	0.0	0.0	0.0	0.0	0.0	0.0
65°	648.7	363.5	139.8	123.0	50.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	592.8	374.7	151.0	128.6	44.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	548.0	369.1	162.2	123.0	39.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	497.7	352.3	195.7	111.8	33.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	447.4	318.8	212.5	100.7	22.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	324.3	268.4	195.7	89.5	11.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	139.8	145.4	139.8	67.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	28.0	33.6	28.0	16.8	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°	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
2.5°	28.0	28.0	28.0	28.0	33.6	33.6	44.7	55.9	67.1	72.7	72.7
5°	22.4	22.4	22.4	22.4	22.4	28.0	33.6	44.7	61.5	67.1	67.1
7.5°	16.8	16.8	16.8	16.8	16.8	16.8	28.0	39.1	55.9	61.5	67.1
10°	16.8	11.2	11.2	5.6	5.6	11.2	16.8	33.6	50.3	55.9	61.5
12.5°	11.2	5.6	5.6	0.0	0.0	5.6	11.2	28.0	44.7	50.3	55.9
15°	5.6	0.0	0.0	0.0	0.0	0.0	5.6	22.4	39.1	44.7	55.9
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.8	33.6	44.7	50.3
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2	28.0	39.1	44.7
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	22.4	33.6	39.1
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.8	22.4	28.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2	16.8	22.4
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2	16.8	22.4
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	11.2	16.8
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	11.2	16.8
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	11.2	11.2
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	11.2
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	11.2
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	11.2
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	11.2
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	11.2
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	5.6
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	5.6
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	5.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	11.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	11.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	5.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	5.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	5.6
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°	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
2.5°	78.3	78.3	72.7	67.1	67.1	67.1	72.7	78.3	78.3	78.3
5°	72.7	72.7	67.1	67.1	67.1	67.1	72.7	83.9	89.5	89.5
7.5°	72.7	72.7	67.1	67.1	67.1	67.1	72.7	83.9	89.5	95.1
10°	67.1	67.1	67.1	67.1	61.5	67.1	72.7	83.9	100.7	100.7
12.5°	67.1	67.1	67.1	67.1	61.5	67.1	78.3	89.5	106.3	111.8
15°	67.1	67.1	67.1	61.5	61.5	67.1	78.3	95.1	111.8	123.0
17.5°	61.5	67.1	67.1	61.5	61.5	67.1	78.3	95.1	123.0	139.8
20°	55.9	61.5	67.1	61.5	61.5	61.5	78.3	95.1	128.6	151.0
22.5°	50.3	55.9	61.5	61.5	55.9	61.5	78.3	100.7	139.8	167.8
25°	44.7	50.3	50.3	55.9	55.9	61.5	78.3	100.7	145.4	190.1
27.5°	33.6	39.1	44.7	50.3	50.3	61.5	78.3	106.3	156.6	234.9
30°	28.0	33.6	39.1	44.7	50.3	61.5	78.3	106.3	167.8	296.4
32.5°	28.0	33.6	39.1	44.7	50.3	55.9	78.3	111.8	184.5	369.1
35°	22.4	28.0	33.6	44.7	44.7	55.9	78.3	111.8	201.3	480.9
37.5°	22.4	28.0	33.6	44.7	44.7	55.9	78.3	111.8	246.1	536.8
40°	16.8	22.4	28.0	44.7	44.7	55.9	83.9	117.4	251.6	542.4
42.5°	16.8	22.4	28.0	39.1	44.7	55.9	83.9	117.4	234.9	559.2
45°	16.8	22.4	28.0	44.7	50.3	61.5	83.9	123.0	229.3	637.5
47.5°	16.8	22.4	28.0	44.7	55.9	61.5	83.9	123.0	234.9	911.5
50°	16.8	22.4	28.0	44.7	61.5	61.5	83.9	123.0	257.2	1465.1
52.5°	11.2	16.8	22.4	39.1	50.3	67.1	89.5	117.4	274.0	1957.3
55°	11.2	11.2	16.8	33.6	44.7	72.7	95.1	117.4	318.8	2080.3
57.5°	11.2	11.2	16.8	28.0	39.1	78.3	100.7	117.4	369.1	2018.8
59°	11.2	11.2	11.2	28.0	33.6	78.3	100.7	123.0	374.7	1912.5
60°	11.2	11.2	11.2	22.4	33.6	78.3	106.3	128.6	380.3	1789.5
62.5°	5.6	5.6	5.6	22.4	28.0	78.3	117.4	156.6	391.5	1381.3
65°	11.2	11.2	5.6	16.8	28.0	67.1	134.2	167.8	397.0	1073.7
67.5°	11.2	11.2	11.2	22.4	28.0	67.1	139.8	173.4	397.0	850.0
70°	11.2	11.2	11.2	22.4	33.6	67.1	139.8	178.9	391.5	693.4
72.5°	11.2	11.2	11.2	22.4	33.6	61.5	128.6	184.5	374.7	587.2
75°	11.2	11.2	11.2	16.8	28.0	55.9	123.0	201.3	341.1	497.7
77.5°	11.2	11.2	11.2	11.2	22.4	44.7	111.8	223.7	302.0	402.6
80°	16.8	11.2	11.2	11.2	16.8	39.1	106.3	218.1	251.6	262.8
82.5°	16.8	11.2	11.2	5.6	11.2	28.0	83.9	167.8	128.6	117.4
85°	11.2	11.2	11.2	5.6	5.6	16.8	39.1	50.3	39.1	28.0
87.5°	11.2	11.2	11.2	5.6	5.6	5.6	5.6	5.6	5.6	5.6
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

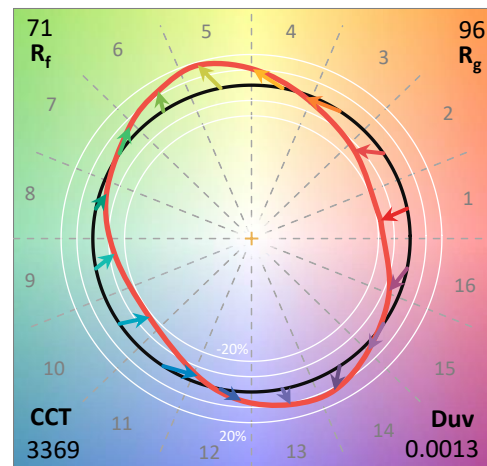
Data in this report applies to families of products including GSS-SB1A-735-U-5WQ

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

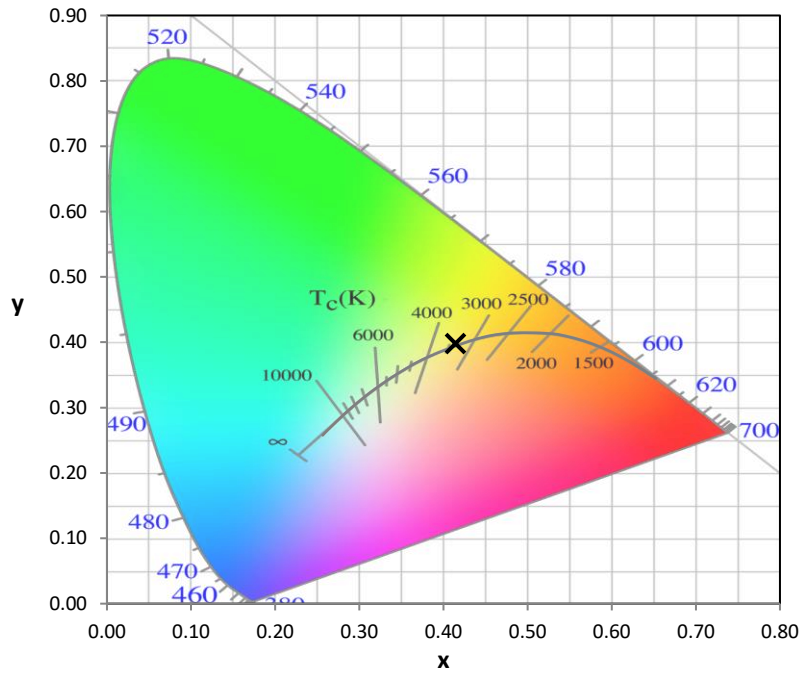
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-5

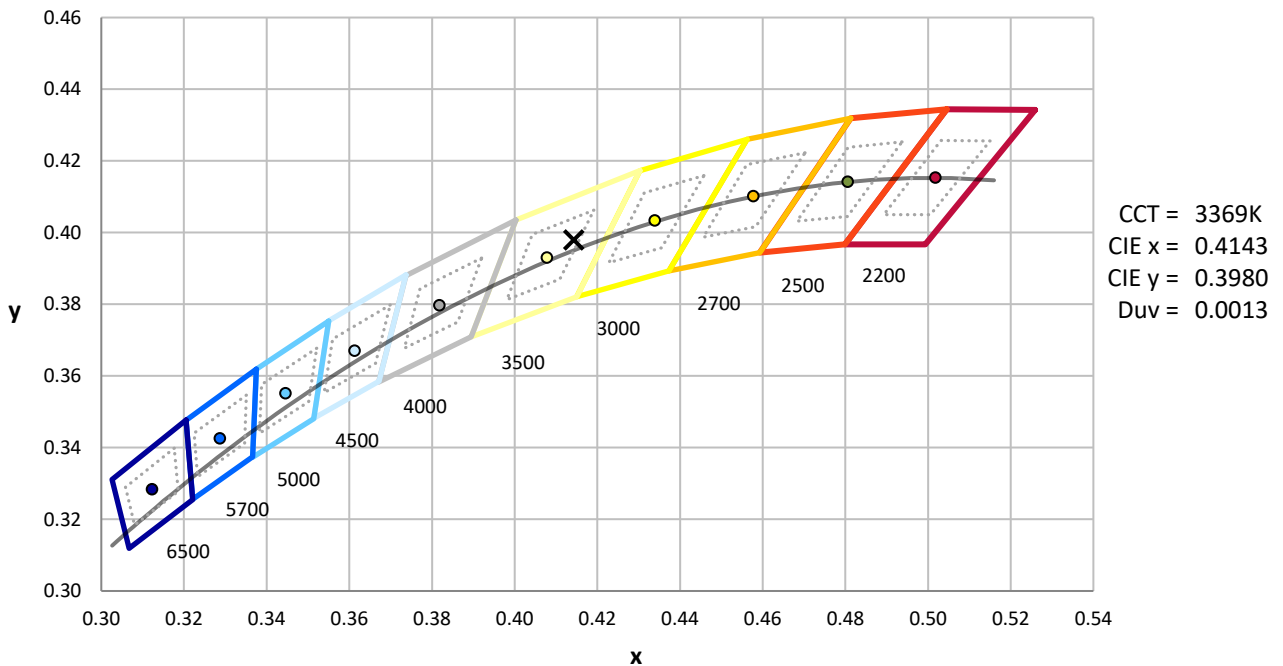
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-5

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

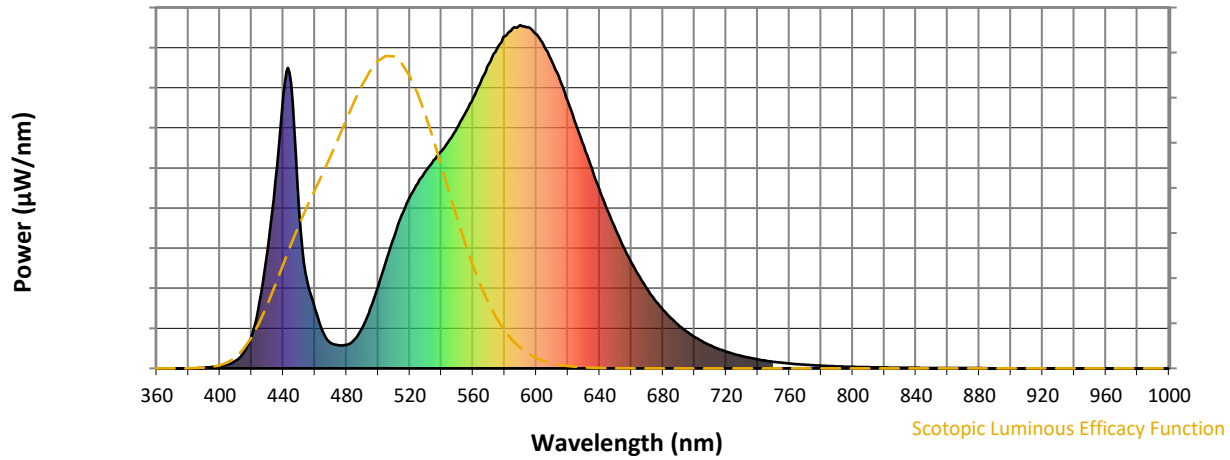


Photopic Lumens: NR

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



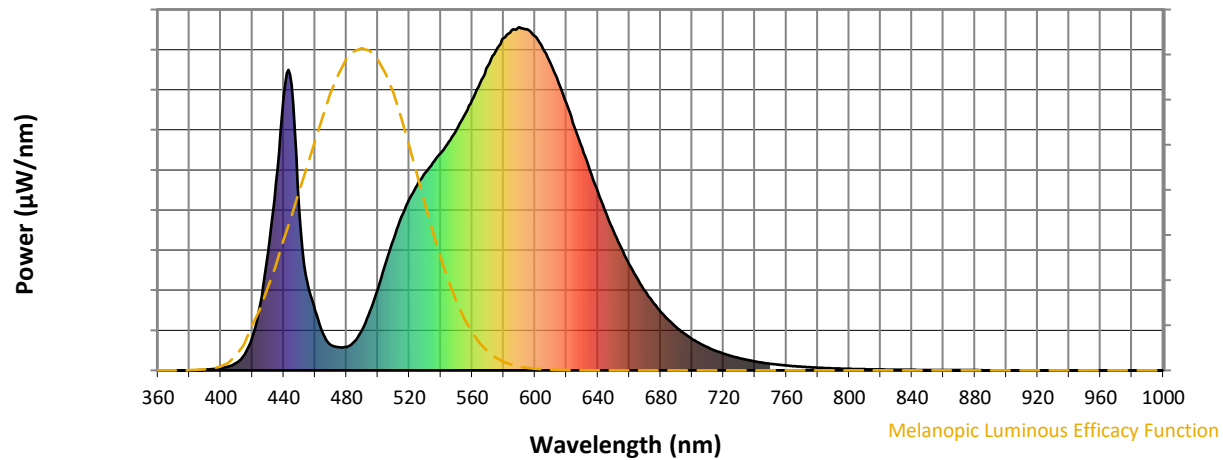
Scotopic Lumens: NR

S/P: 1.29

λ (nm)	Power 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			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.36

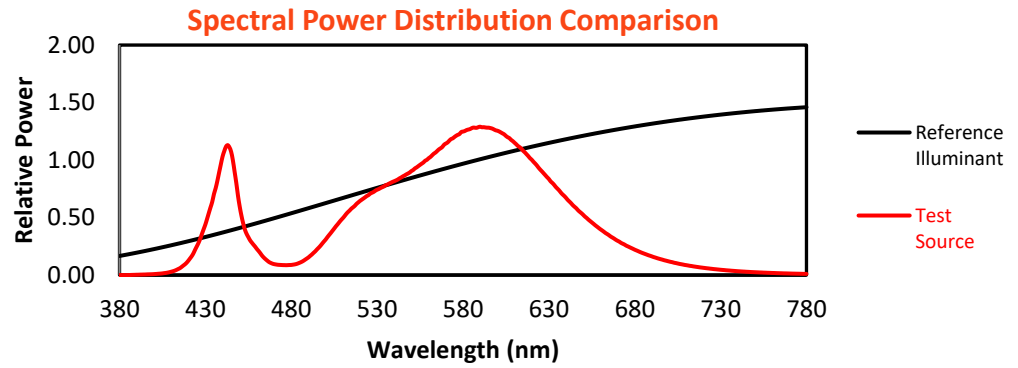
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	119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

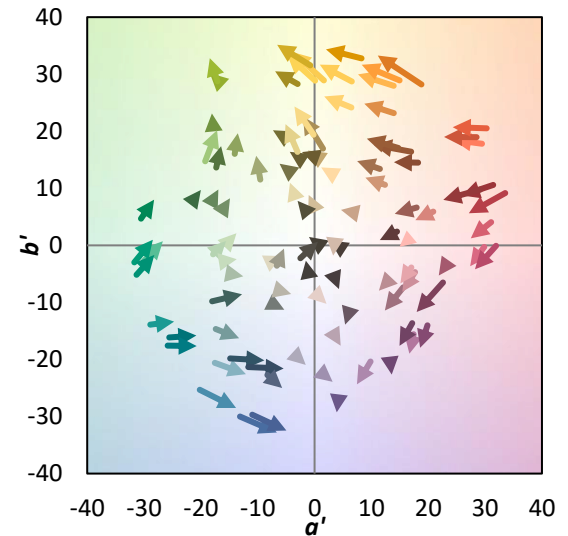
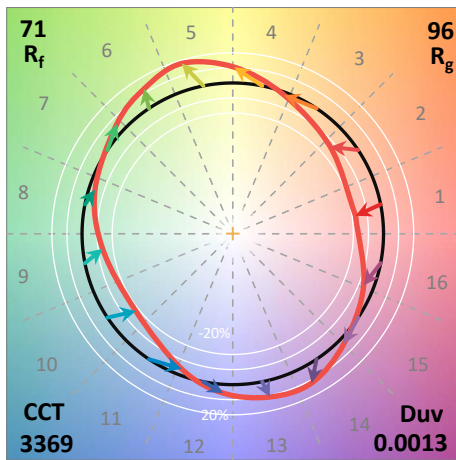
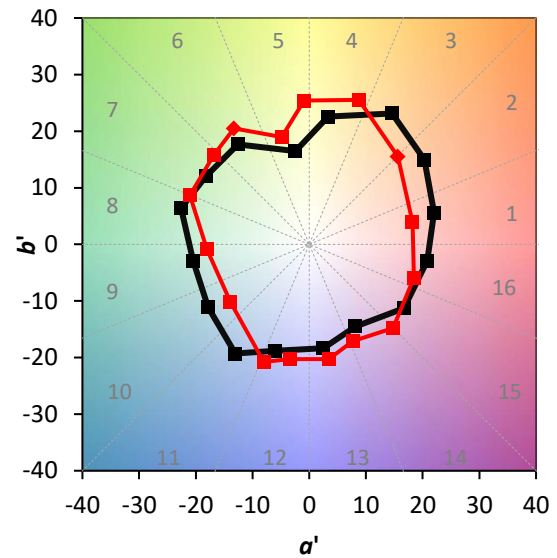
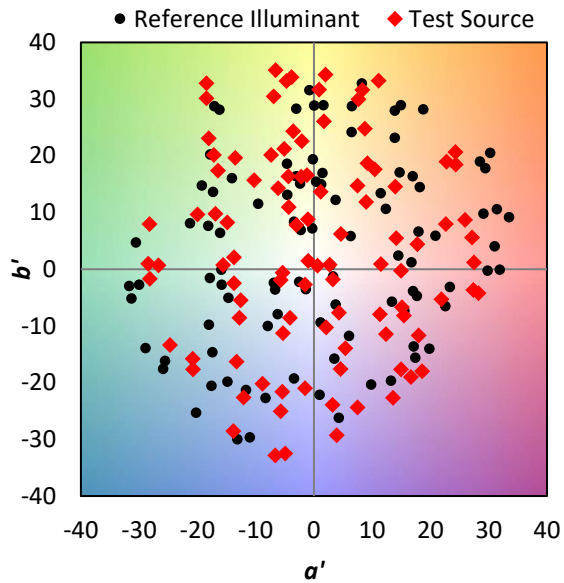
TM-30-18

Summary

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

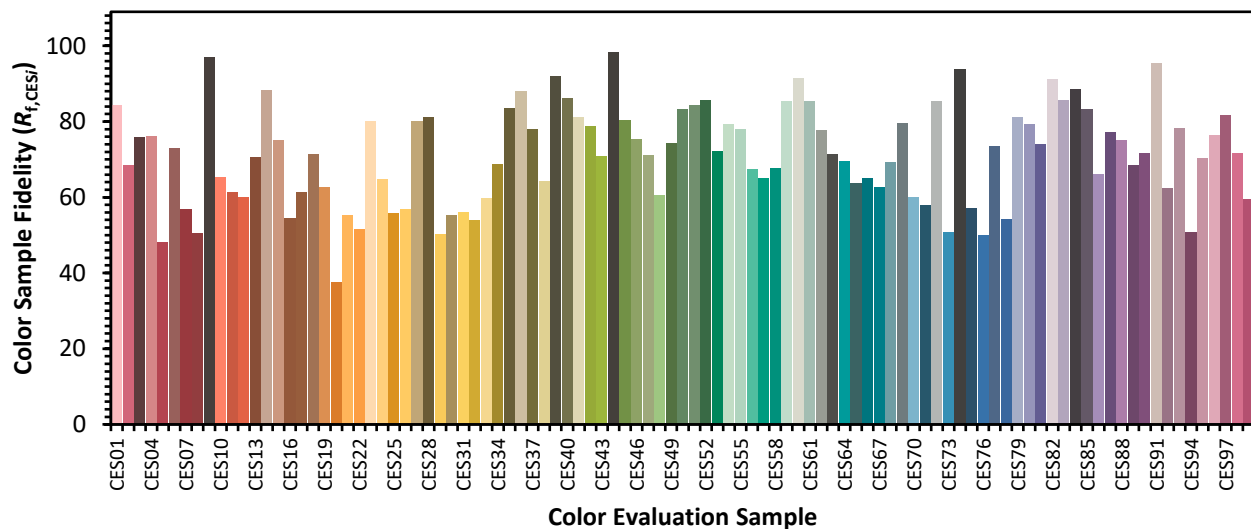


Color Vector Graphics

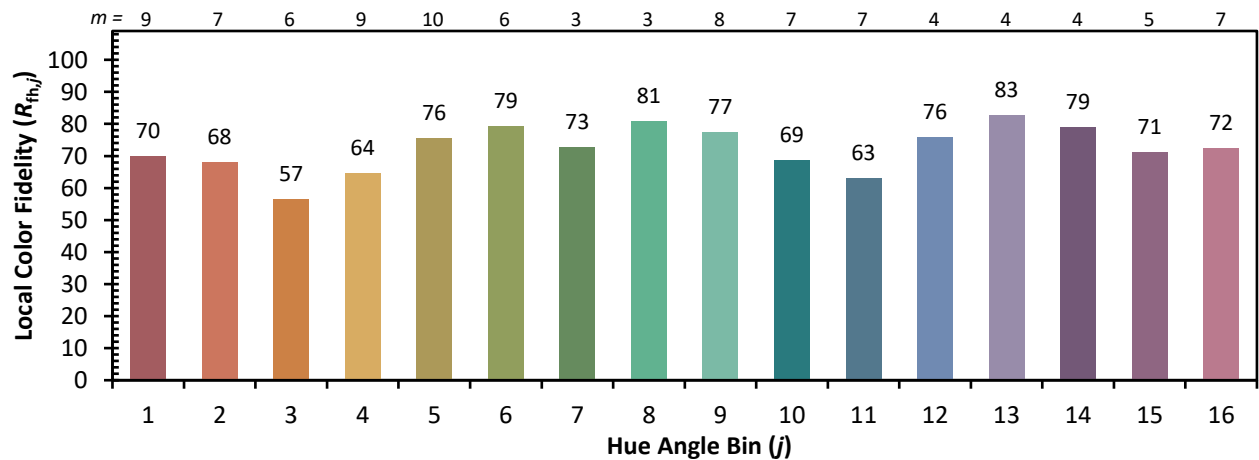
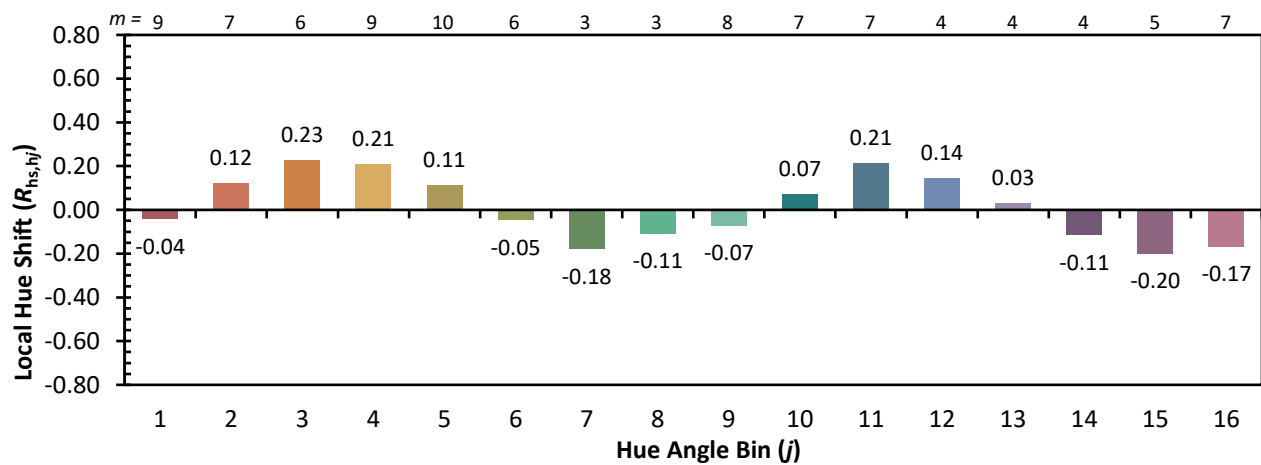
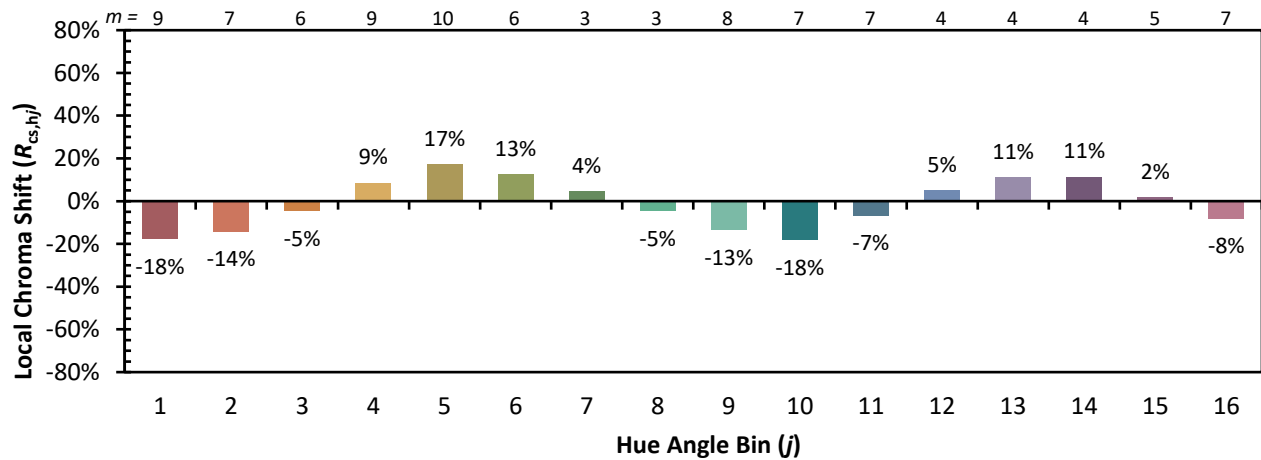


Individual Sample Fidelity Index ($R_{f,i}$)

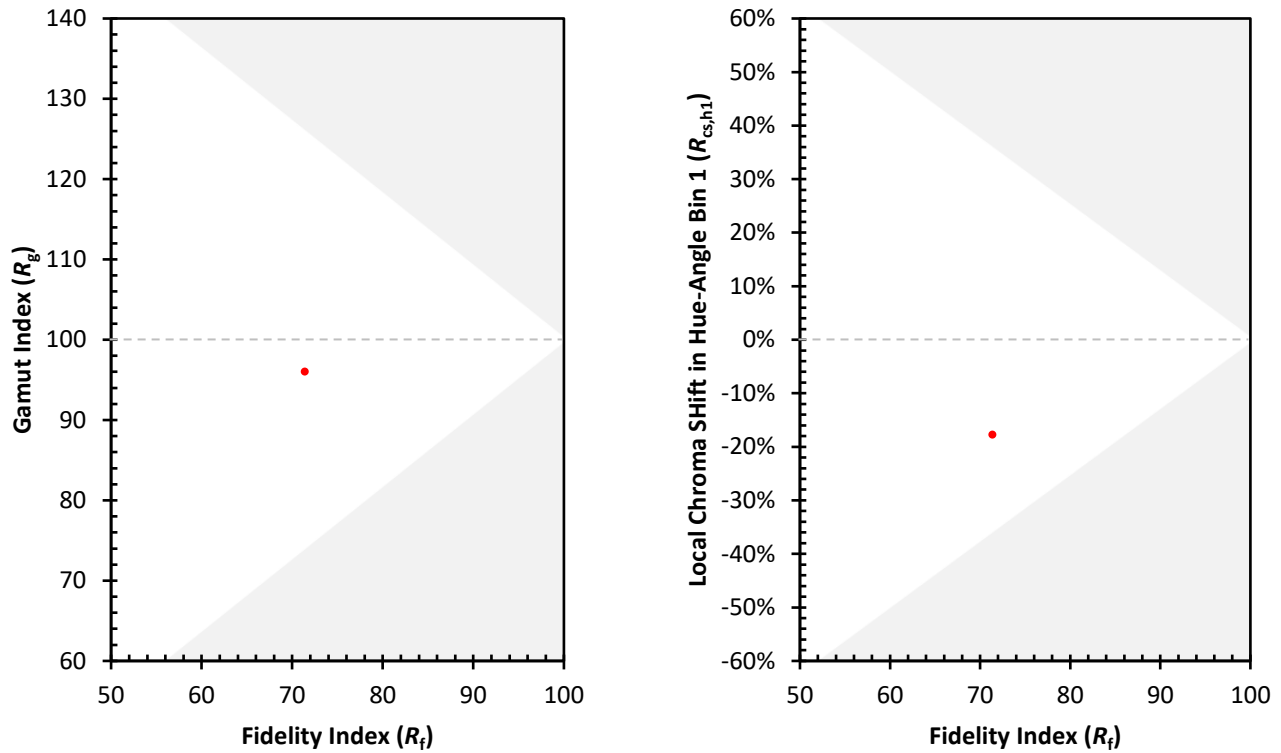
CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82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