

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: P1067978

Luminaire Tested: **NAV-SA4B-735-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067978
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA4B-735-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 4xLight Square PACKAGE
70CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14145.9 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 144.1
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



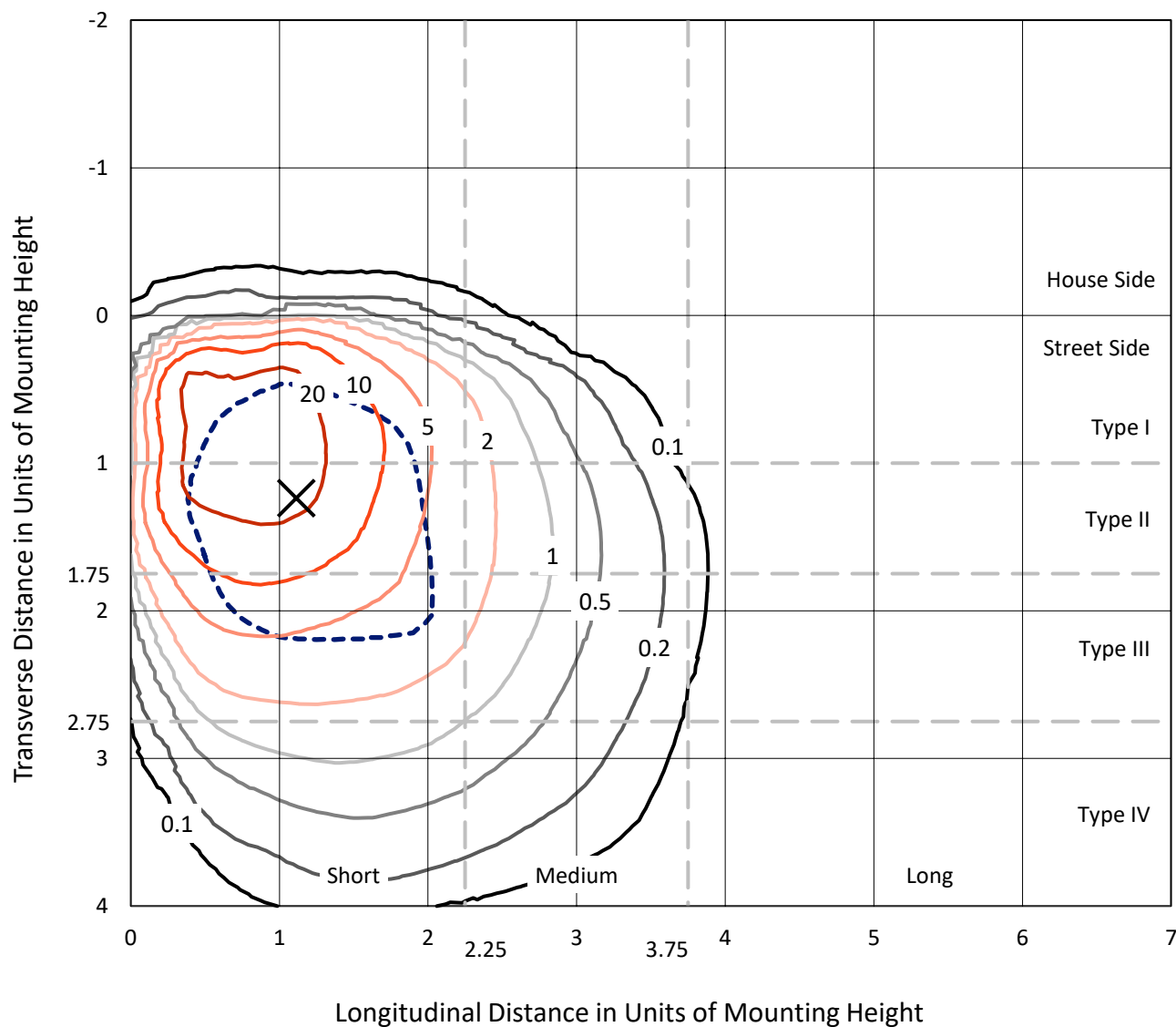
REPORT NUMBER: P1067978

CATALOG NUMBER: NAV-SA4B-735-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

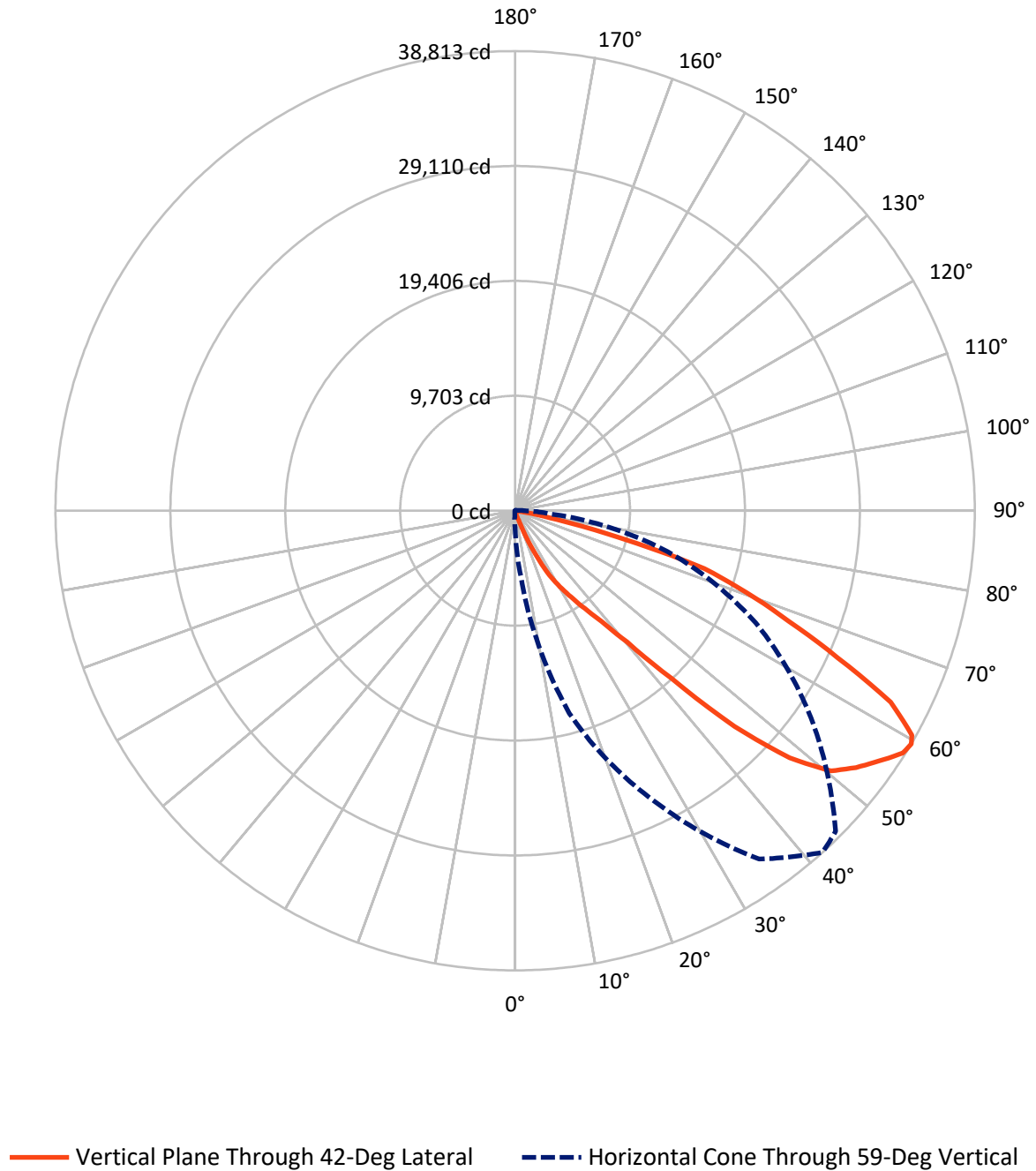


Based on 15 foot mounting height. Maximum calculated value = 42 fc
 Type III - Short - N/A

REPORT NUMBER: P1067978

CATALOG NUMBER: NAV-SA4B-735-U-LBC

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	68.2	0.0	68.2
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	14077.8	0.0	14077.8
	% Fixture	99.5	0.0	99.5
Total	Lumens	14145.9	0.0	14145.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.1	0.0
10°-20°	20.6	0.1
20°-30°	263.9	1.9
30°-40°	889.6	6.3
40°-50°	2687.0	19.0
50°-60°	4743.2	33.5
60°-70°	4176.4	29.5
70°-80°	1329.4	9.4
80°-90°	31.8	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	14145.9	100.0
0°-180°	14145.9	100.0



REPORT NUMBER: P1067978

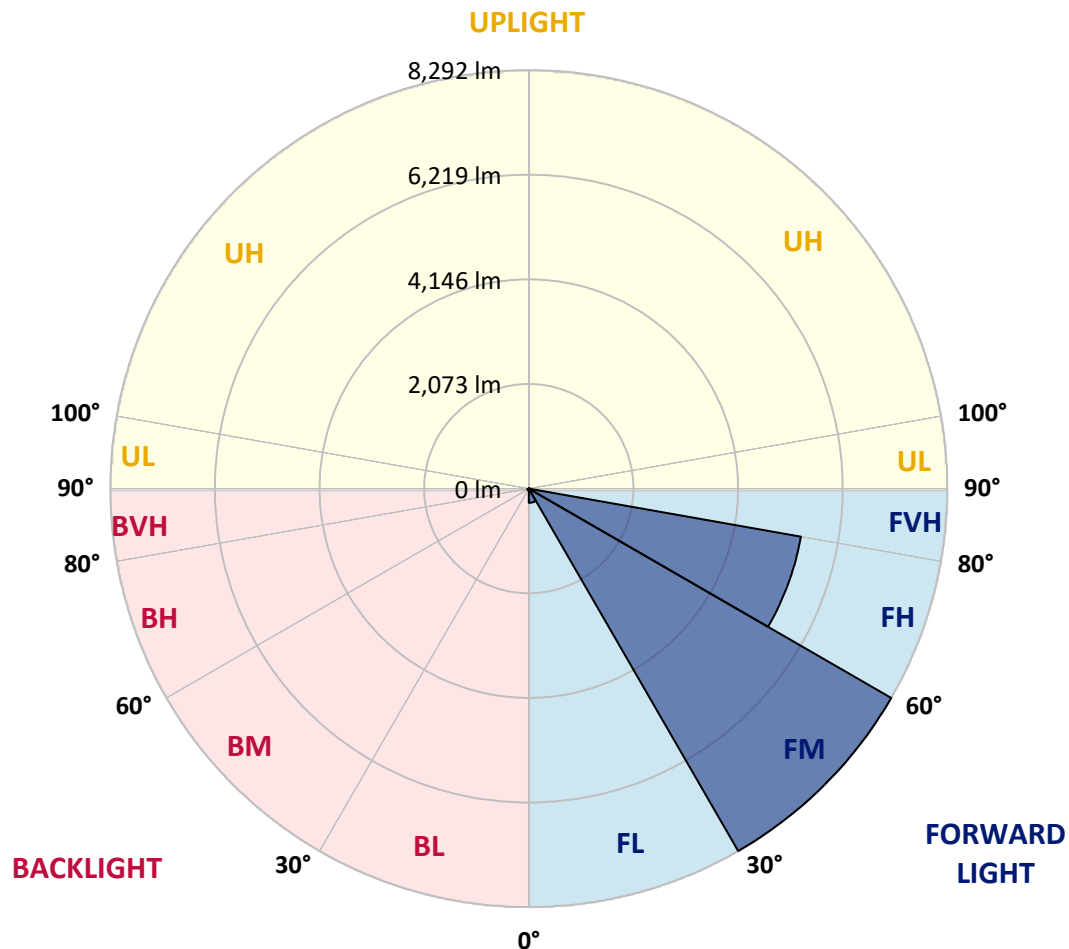
CATALOG NUMBER: NAV-SA4B-735-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	281.0	2.0			
FM	(30°-60°)	8291.9	58.6			
FH	(60°-80°)	5474.6	38.7			G3/7500
FVH	(80°-90°)	30.3	0.2			G1/100
BL	(0°-30°)	7.6	0.1	B0/110		
BM	(30°-60°)	27.8	0.2	B0/220		
BH	(60°-80°)	31.2	0.2	B0/110		G0/110
BVH	(80°-90°)	1.5	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



REPORT NUMBER: P1067978

CATALOG NUMBER: NAV-SA4B-735-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9
2.5°	62.1	62.1	57.7	53.2	48.8	44.4	44.4	44.4	39.9	39.9	35.5
5°	71.0	71.0	66.5	62.1	62.1	57.7	57.7	53.2	48.8	48.8	44.4
7.5°	75.4	75.4	75.4	75.4	71.0	71.0	71.0	66.5	62.1	57.7	53.2
10°	79.8	84.3	88.7	88.7	88.7	88.7	88.7	84.3	75.4	71.0	62.1
12.5°	88.7	93.1	102.0	110.9	110.9	115.3	110.9	106.4	97.6	84.3	71.0
15°	97.6	106.4	119.8	137.5	155.2	159.7	159.7	146.4	128.6	102.0	84.3
17.5°	110.9	124.2	159.7	217.3	279.4	328.2	328.2	292.7	204.0	133.1	97.6
20°	119.8	146.4	257.2	523.4	798.3	1002.4	962.4	851.6	456.8	208.5	106.4
22.5°	133.1	186.3	545.5	1374.9	2128.9	2501.5	2412.8	1831.7	1024.5	372.6	128.6
25°	150.8	270.5	1082.2	2576.9	3956.2	4359.8	4302.2	3419.6	1867.2	625.4	164.1
27.5°	186.3	399.2	1734.2	3907.4	5836.8	6182.7	6160.5	5007.4	2984.9	1006.8	212.9
30°	235.1	581.0	2572.4	5309.0	7083.1	7433.4	7322.6	6169.4	4027.2	1539.0	275.0
32.5°	292.7	811.6	3330.9	6342.4	8231.8	8693.0	8560.0	7180.6	4865.4	1991.4	408.0
35°	381.4	1037.8	4080.4	7256.0	9557.9	10143.4	9921.6	8222.9	5588.4	2501.5	492.3
37.5°	425.8	1170.9	4767.9	8249.5	11048.1	11846.5	11677.9	9540.2	6324.6	3153.4	603.2
40°	430.2	1330.6	5481.9	9544.6	13154.9	14578.6	14277.0	11802.1	7695.1	3991.7	776.2
42.5°	443.5	1570.1	6408.9	11753.3	17292.9	19337.6	18996.1	15962.4	10804.2	5672.7	1099.9
45°	505.6	2022.5	8298.3	15882.5	22974.5	25972.7	25577.9	21759.2	15146.3	8835.0	1876.1
47.5°	722.9	3042.6	11611.4	20339.9	28784.6	31175.2	31077.6	26327.5	19080.3	12077.1	3180.1
50°	1162.0	4670.3	15381.4	24087.7	32483.6	34537.1	34293.2	28234.6	21324.6	14290.3	4076.0
52.5°	1552.3	6227.1	17749.8	25467.1	33588.0	36036.2	35739.0	28931.0	21914.4	14942.3	4324.3
55°	1649.9	6790.3	18455.0	25892.8	34319.8	37304.7	36874.5	29396.7	21989.8	14476.6	3911.9
57.5°	1601.1	6258.1	17998.1	26309.8	35339.9	38608.6	38036.5	30305.9	22242.7	13687.1	3255.5
59°	1516.8	5601.7	17714.3	26642.4	35903.1	38812.7	38276.0	30505.5	22411.2	13327.9	2856.3
60°	1419.3	5158.2	17492.5	26859.7	35867.7	38493.3	37938.9	30412.3	22477.7	13017.4	2665.6
62.5°	1095.5	4115.9	17173.2	26704.5	33627.9	35579.4	35264.5	28132.6	21502.0	12023.9	2102.3
65°	851.6	3149.0	16002.3	23817.2	28616.1	29928.9	29831.3	23821.6	18095.7	10365.1	1516.8
67.5°	674.2	2297.4	13531.9	19288.8	23023.3	24890.5	24819.5	19337.6	13735.9	7921.3	1091.1
70°	550.0	1636.6	9278.5	14543.1	18415.1	20765.7	20663.7	15563.2	10178.8	5025.1	793.9
72.5°	465.7	1046.7	5628.3	10963.9	15368.1	16711.9	16414.8	12556.1	7402.4	2736.5	629.8
75°	394.7	643.1	2789.8	6834.7	9154.3	9145.4	8848.3	6648.4	3974.0	1339.4	501.2
77.5°	319.3	452.4	1095.5	1876.1	2887.3	3574.8	3517.1	2355.1	1188.6	390.3	310.5
80°	208.5	212.9	292.7	514.5	793.9	878.2	997.9	718.5	345.9	186.3	128.6
82.5°	93.1	102.0	133.1	168.5	168.5	155.2	137.5	102.0	75.4	62.1	31.0
85°	22.2	31.0	22.2	26.6	22.2	17.7	17.7	8.9	0.0	0.0	0.0
87.5°	4.4	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



REPORT NUMBER: P1067978

CATALOG NUMBER: NAV-SA4B-735-U-LBC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9
2.5°	35.5	35.5	35.5	31.0	31.0	31.0	26.6	26.6	26.6	22.2	22.2
5°	44.4	39.9	35.5	35.5	31.0	31.0	26.6	22.2	22.2	22.2	17.7
7.5°	48.8	44.4	39.9	35.5	31.0	26.6	26.6	22.2	17.7	17.7	17.7
10°	57.7	53.2	44.4	35.5	31.0	26.6	22.2	22.2	17.7	13.3	13.3
12.5°	66.5	57.7	48.8	39.9	31.0	26.6	22.2	22.2	17.7	13.3	8.9
15°	75.4	66.5	53.2	39.9	31.0	26.6	22.2	22.2	13.3	8.9	4.4
17.5°	84.3	71.0	53.2	44.4	31.0	26.6	22.2	17.7	8.9	4.4	0.0
20°	88.7	75.4	57.7	44.4	31.0	26.6	22.2	13.3	4.4	0.0	0.0
22.5°	97.6	84.3	62.1	44.4	31.0	22.2	13.3	4.4	0.0	0.0	0.0
25°	115.3	88.7	62.1	44.4	31.0	22.2	8.9	0.0	0.0	0.0	0.0
27.5°	128.6	97.6	62.1	44.4	31.0	17.7	4.4	0.0	0.0	0.0	0.0
30°	150.8	106.4	66.5	44.4	31.0	13.3	4.4	0.0	0.0	0.0	0.0
32.5°	186.3	115.3	66.5	44.4	26.6	13.3	0.0	0.0	0.0	0.0	0.0
35°	226.2	133.1	66.5	44.4	26.6	13.3	0.0	0.0	0.0	0.0	0.0
37.5°	230.6	141.9	66.5	44.4	26.6	8.9	0.0	0.0	0.0	0.0	0.0
40°	239.5	133.1	71.0	44.4	26.6	8.9	0.0	0.0	0.0	0.0	0.0
42.5°	275.0	124.2	75.4	44.4	26.6	8.9	0.0	0.0	0.0	0.0	0.0
45°	408.0	128.6	75.4	48.8	26.6	13.3	0.0	0.0	0.0	0.0	0.0
47.5°	709.6	133.1	71.0	48.8	26.6	13.3	0.0	0.0	0.0	0.0	0.0
50°	909.2	155.2	71.0	53.2	31.0	8.9	0.0	0.0	0.0	0.0	0.0
52.5°	966.9	181.8	71.0	57.7	39.9	4.4	0.0	0.0	0.0	0.0	0.0
55°	940.3	212.9	75.4	62.1	48.8	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	869.3	230.6	79.8	66.5	53.2	0.0	0.0	0.0	0.0	0.0	0.0
59°	793.9	243.9	93.1	71.0	53.2	0.0	0.0	0.0	0.0	0.0	0.0
60°	731.8	257.2	97.6	75.4	53.2	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	589.9	275.0	106.4	88.7	44.4	0.0	0.0	0.0	0.0	0.0	0.0
65°	514.5	288.3	110.9	97.6	39.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	470.1	297.2	119.8	102.0	35.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	434.7	292.7	128.6	97.6	31.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	394.7	279.4	155.2	88.7	26.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	354.8	252.8	168.5	79.8	17.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	257.2	212.9	155.2	71.0	8.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	110.9	115.3	110.9	53.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.2	26.6	22.2	13.3	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



REPORT NUMBER: P1067978

CATALOG NUMBER: NAV-SA4B-735-U-LBC

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9
2.5°	22.2	22.2	22.2	22.2	26.6	26.6	35.5	44.4	53.2	57.7	57.7
5°	17.7	17.7	17.7	17.7	17.7	22.2	26.6	35.5	48.8	53.2	53.2
7.5°	13.3	13.3	13.3	13.3	13.3	13.3	22.2	31.0	44.4	48.8	53.2
10°	13.3	8.9	8.9	4.4	4.4	8.9	13.3	26.6	39.9	44.4	48.8
12.5°	8.9	4.4	4.4	0.0	0.0	4.4	8.9	22.2	35.5	39.9	44.4
15°	4.4	0.0	0.0	0.0	0.0	0.0	4.4	17.7	31.0	35.5	44.4
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.3	26.6	35.5	39.9
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	22.2	31.0	35.5
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	17.7	26.6	31.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.3	17.7	22.2
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	13.3	17.7
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	13.3	17.7
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	8.9	13.3
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	8.9	13.3
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	8.9	8.9
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	8.9
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	8.9
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	8.9
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	8.9
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	8.9
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	4.4
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	4.4
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	4.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	8.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	8.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	4.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	4.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1067978

CATALOG NUMBER: NAV-SA4B-735-U-LBC

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	318°	325°	335°	345°	355°	360°
0°	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9
2.5°	62.1	62.1	57.7	53.2	53.2	53.2	57.7	62.1	62.1	62.1
5°	57.7	57.7	53.2	53.2	53.2	53.2	57.7	66.5	71.0	71.0
7.5°	57.7	57.7	53.2	53.2	53.2	53.2	57.7	66.5	71.0	75.4
10°	53.2	53.2	53.2	53.2	48.8	53.2	57.7	66.5	79.8	79.8
12.5°	53.2	53.2	53.2	53.2	48.8	53.2	62.1	71.0	84.3	88.7
15°	53.2	53.2	53.2	48.8	48.8	53.2	62.1	75.4	88.7	97.6
17.5°	48.8	53.2	53.2	48.8	48.8	53.2	62.1	75.4	97.6	110.9
20°	44.4	48.8	53.2	48.8	48.8	48.8	62.1	75.4	102.0	119.8
22.5°	39.9	44.4	48.8	48.8	44.4	48.8	62.1	79.8	110.9	133.1
25°	35.5	39.9	39.9	44.4	44.4	48.8	62.1	79.8	115.3	150.8
27.5°	26.6	31.0	35.5	39.9	39.9	48.8	62.1	84.3	124.2	186.3
30°	22.2	26.6	31.0	35.5	39.9	48.8	62.1	84.3	133.1	235.1
32.5°	22.2	26.6	31.0	35.5	39.9	44.4	62.1	88.7	146.4	292.7
35°	17.7	22.2	26.6	35.5	35.5	44.4	62.1	88.7	159.7	381.4
37.5°	17.7	22.2	26.6	35.5	35.5	44.4	62.1	88.7	195.1	425.8
40°	13.3	17.7	22.2	35.5	35.5	44.4	66.5	93.1	199.6	430.2
42.5°	13.3	17.7	22.2	31.0	35.5	44.4	66.5	93.1	186.3	443.5
45°	13.3	17.7	22.2	35.5	39.9	48.8	66.5	97.6	181.8	505.6
47.5°	13.3	17.7	22.2	35.5	44.4	48.8	66.5	97.6	186.3	722.9
50°	13.3	17.7	22.2	35.5	48.8	48.8	66.5	97.6	204.0	1162.0
52.5°	8.9	13.3	17.7	31.0	39.9	53.2	71.0	93.1	217.3	1552.3
55°	8.9	8.9	13.3	26.6	35.5	57.7	75.4	93.1	252.8	1649.9
57.5°	8.9	8.9	13.3	22.2	31.0	62.1	79.8	93.1	292.7	1601.1
59°	8.9	8.9	8.9	22.2	26.6	62.1	79.8	97.6	297.2	1516.8
60°	8.9	8.9	8.9	17.7	26.6	62.1	84.3	102.0	301.6	1419.3
62.5°	4.4	4.4	4.4	17.7	22.2	62.1	93.1	124.2	310.5	1095.5
65°	8.9	8.9	4.4	13.3	22.2	53.2	106.4	133.1	314.9	851.6
67.5°	8.9	8.9	8.9	17.7	22.2	53.2	110.9	137.5	314.9	674.2
70°	8.9	8.9	8.9	17.7	26.6	53.2	110.9	141.9	310.5	550.0
72.5°	8.9	8.9	8.9	17.7	26.6	48.8	102.0	146.4	297.2	465.7
75°	8.9	8.9	8.9	13.3	22.2	44.4	97.6	159.7	270.5	394.7
77.5°	8.9	8.9	8.9	8.9	17.7	35.5	88.7	177.4	239.5	319.3
80°	13.3	8.9	8.9	8.9	13.3	31.0	84.3	173.0	199.6	208.5
82.5°	13.3	8.9	8.9	4.4	8.9	22.2	66.5	133.1	102.0	93.1
85°	8.9	8.9	8.9	4.4	4.4	13.3	31.0	39.9	31.0	22.2
87.5°	8.9	8.9	8.9	4.4	4.4	4.4	4.4	4.4	4.4	4.4
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

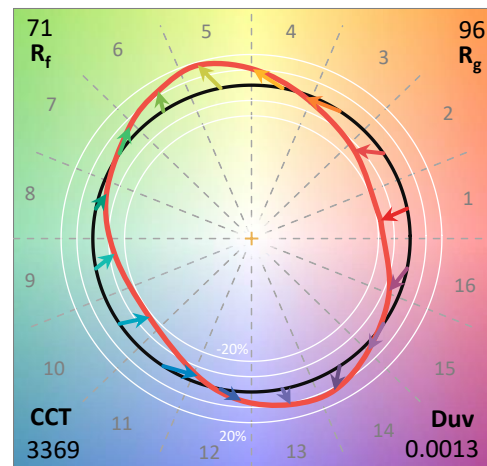
Data in this report applies to families of products including GSS-SB1A-735-U-5WQ

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

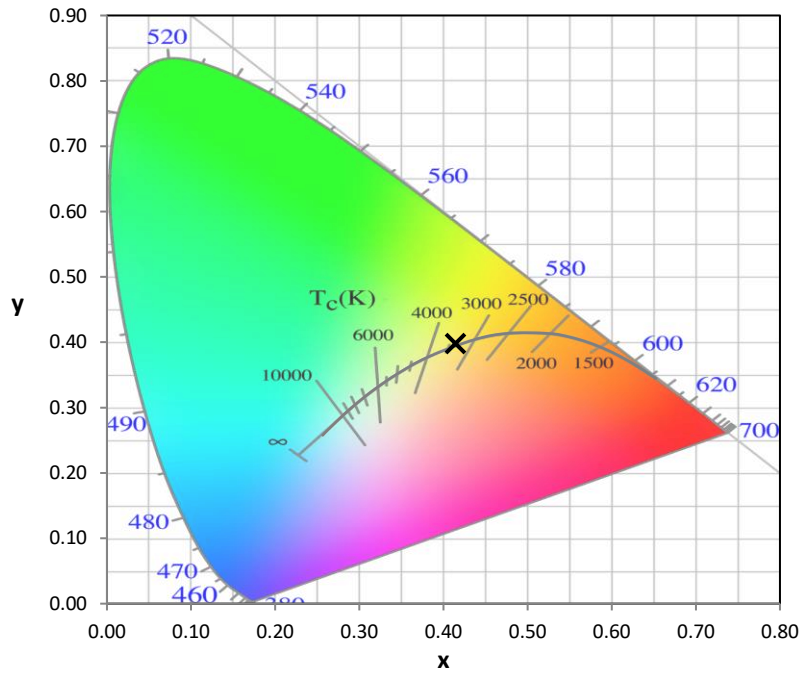
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-5

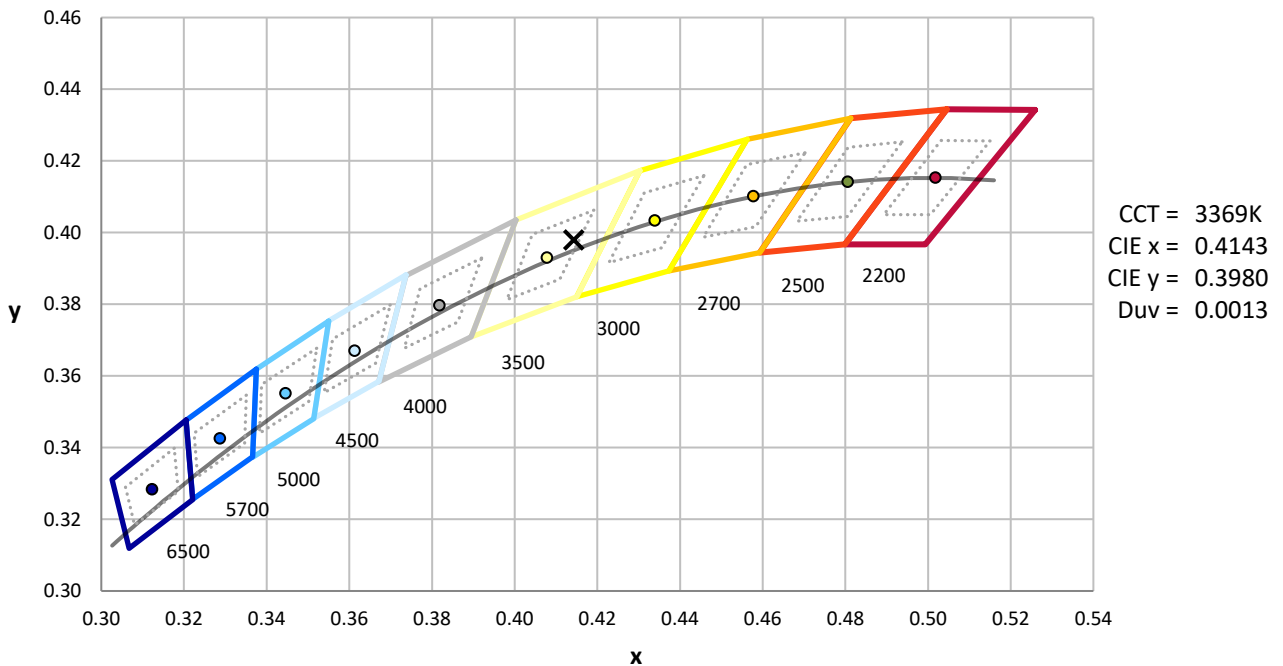
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-5

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

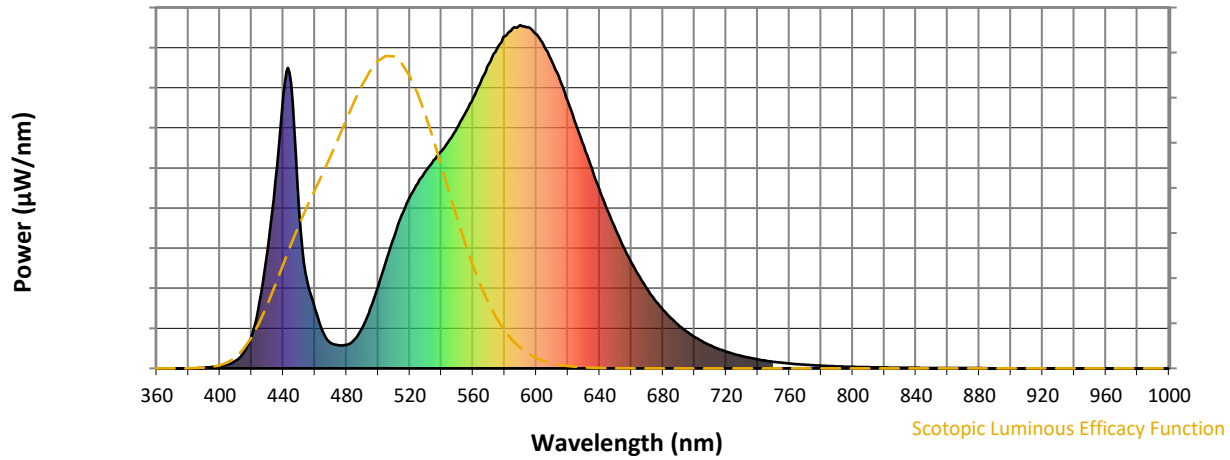


Photopic Lumens: NR

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



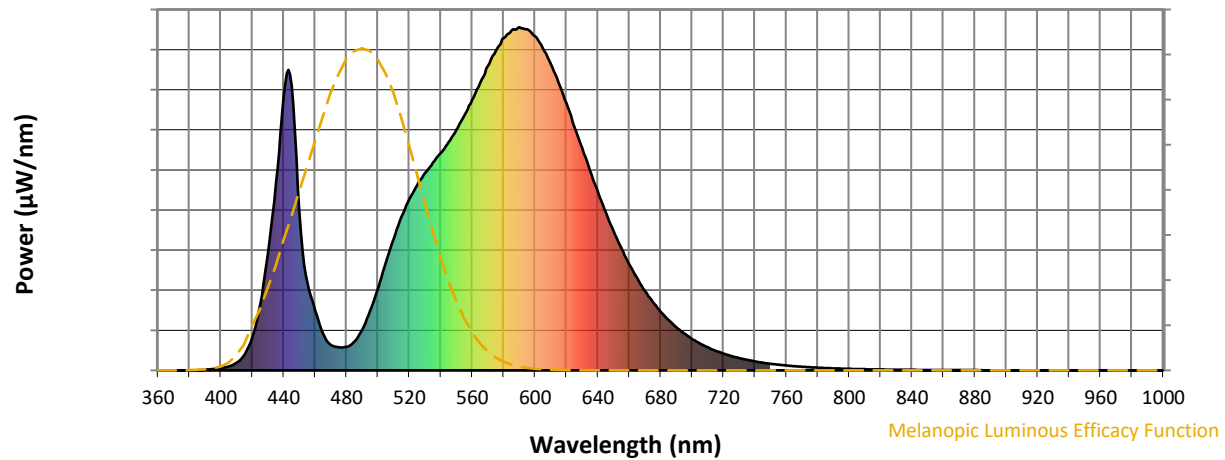
Scotopic Lumens: NR

S/P: 1.29

λ (nm)	Power W [^] /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

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.36

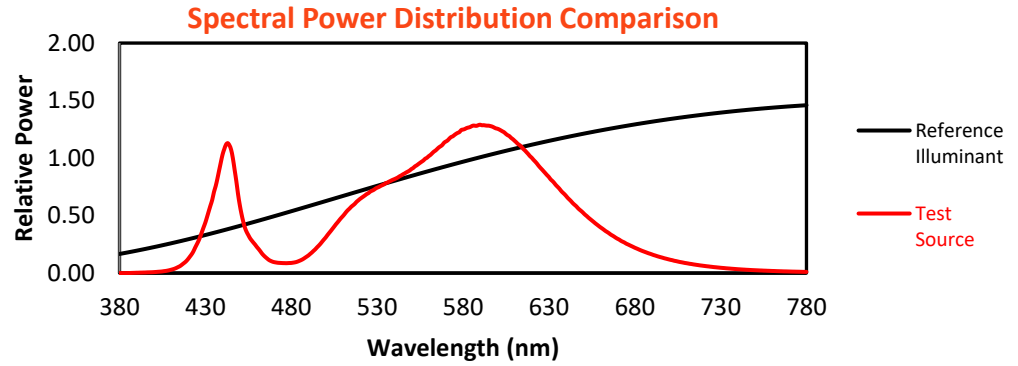
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	119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

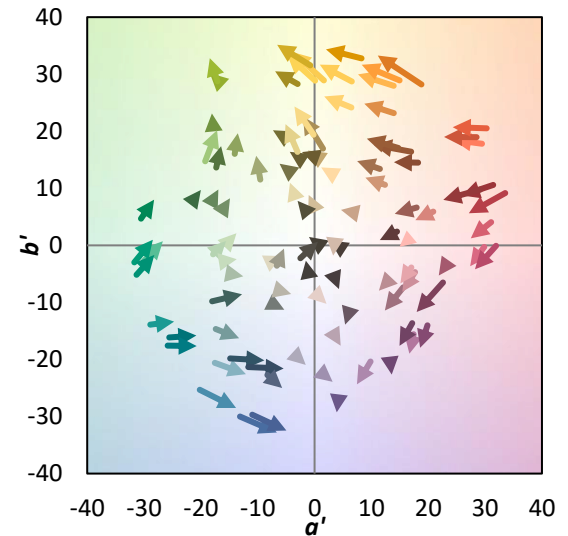
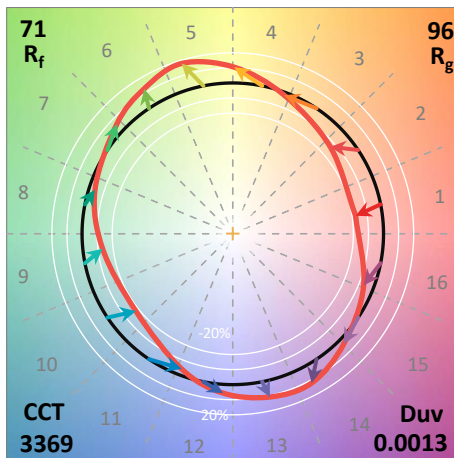
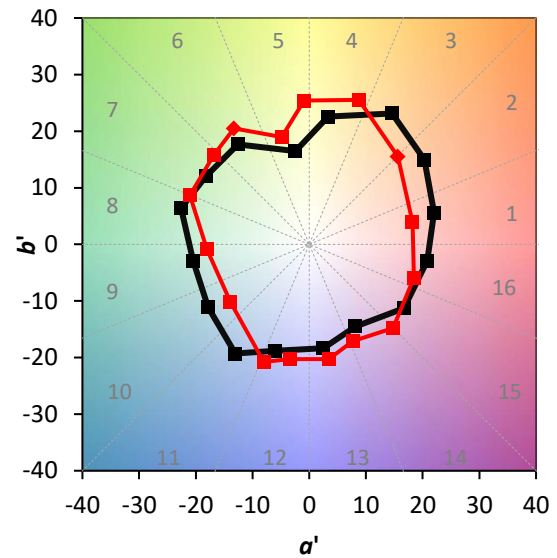
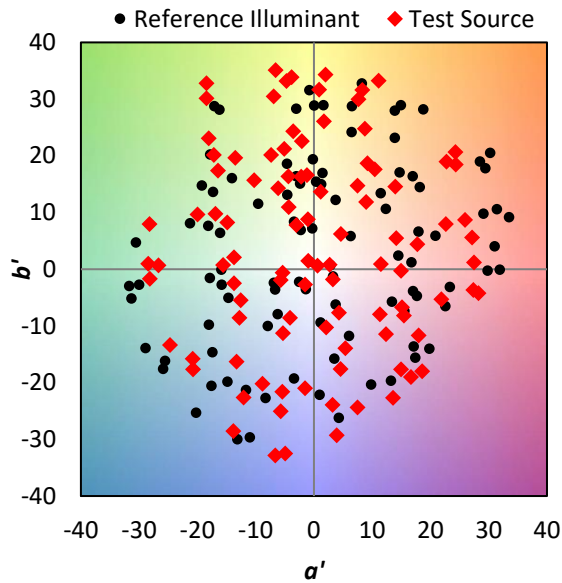
TM-30-18

Summary

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

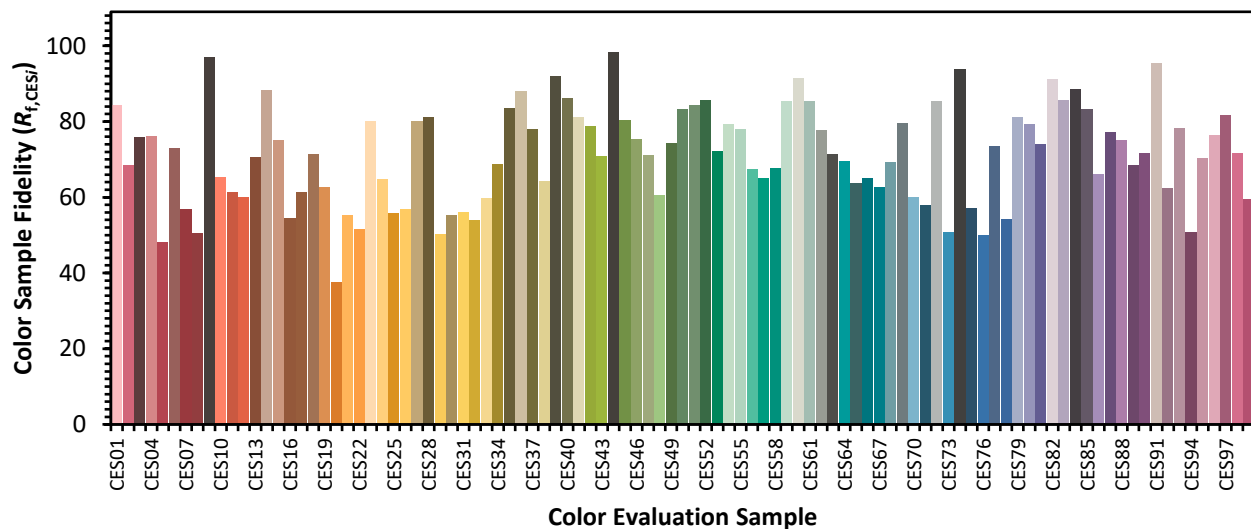


Color Vector Graphics

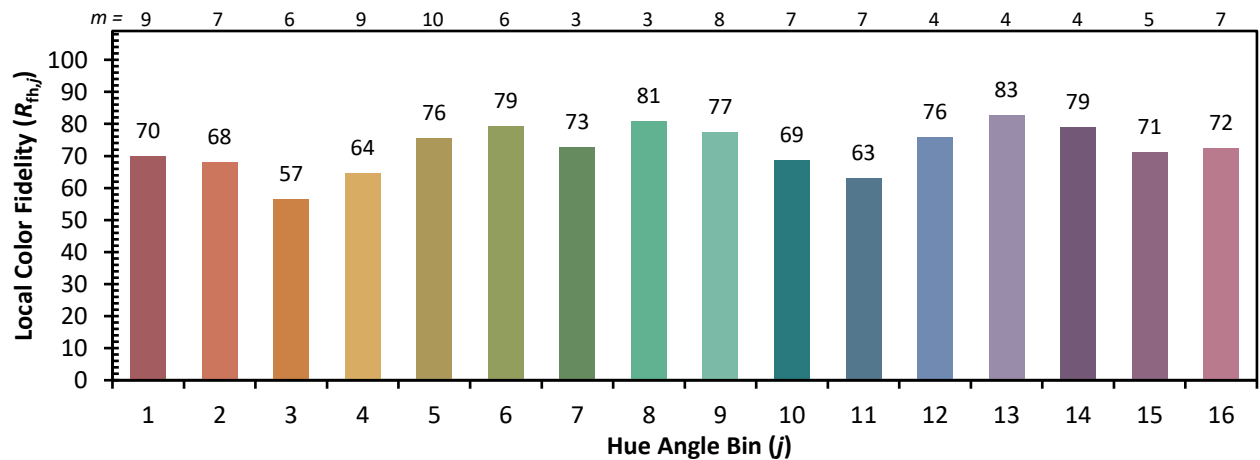
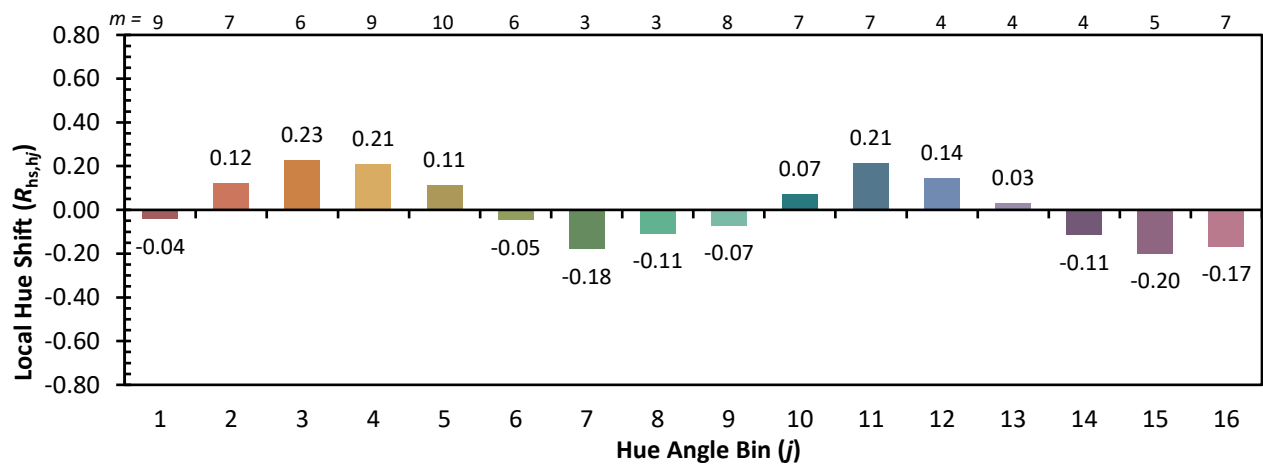
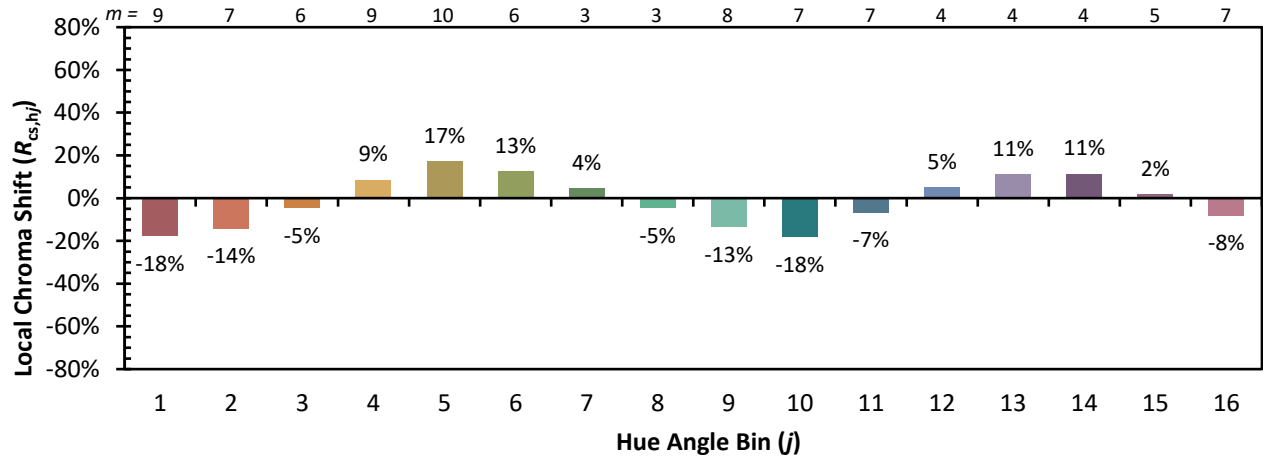


Individual Sample Fidelity Index ($R_{f,i}$)

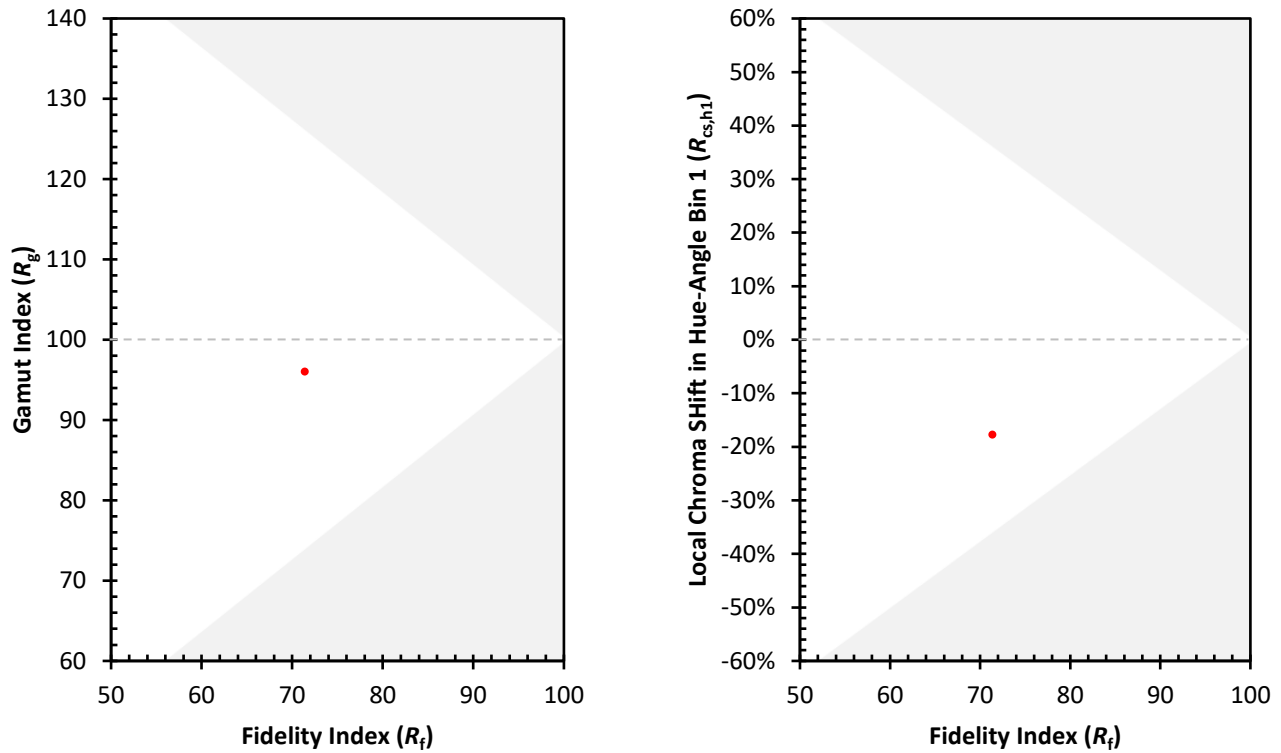
CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82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