

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: STREETWORKS

Report Number: P1066761

Luminaire Tested: **NVN-SA6A-730-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1066761
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SA6A-730-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 6xLight Square PACKAGE
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16815.2 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

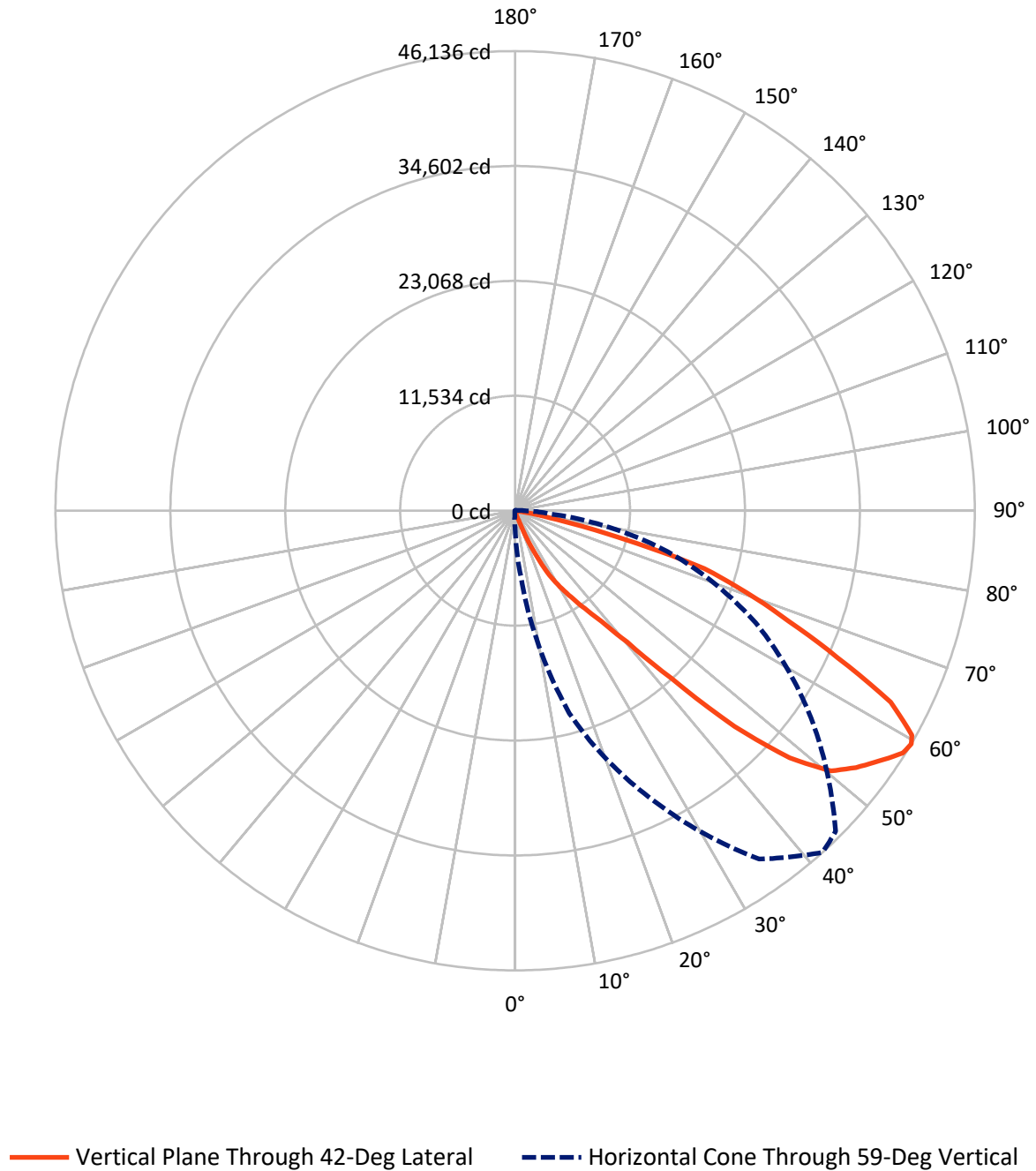
Input Watts (W): 161.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Luminous Intensity Polar Plot



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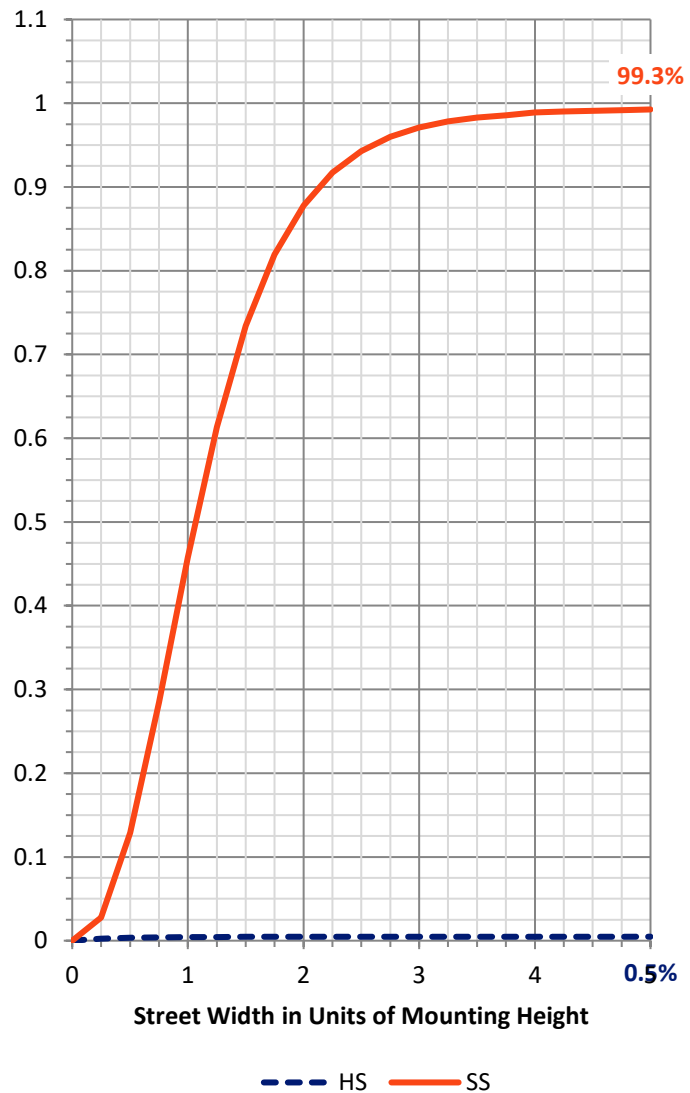
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	81.0	0.0	81.0
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	16734.2	0.0	16734.2
	% Fixture	99.5	0.0	99.5
Total	Lumens	16815.2	0.0	16815.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.9	0.0
10°-20°	24.5	0.1
20°-30°	313.6	1.9
30°-40°	1057.5	6.3
40°-50°	3194.0	19.0
50°-60°	5638.2	33.5
60°-70°	4964.5	29.5
70°-80°	1580.2	9.4
80°-90°	37.8	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°	16815.2	100.0
0°-180°	16815.2	100.0



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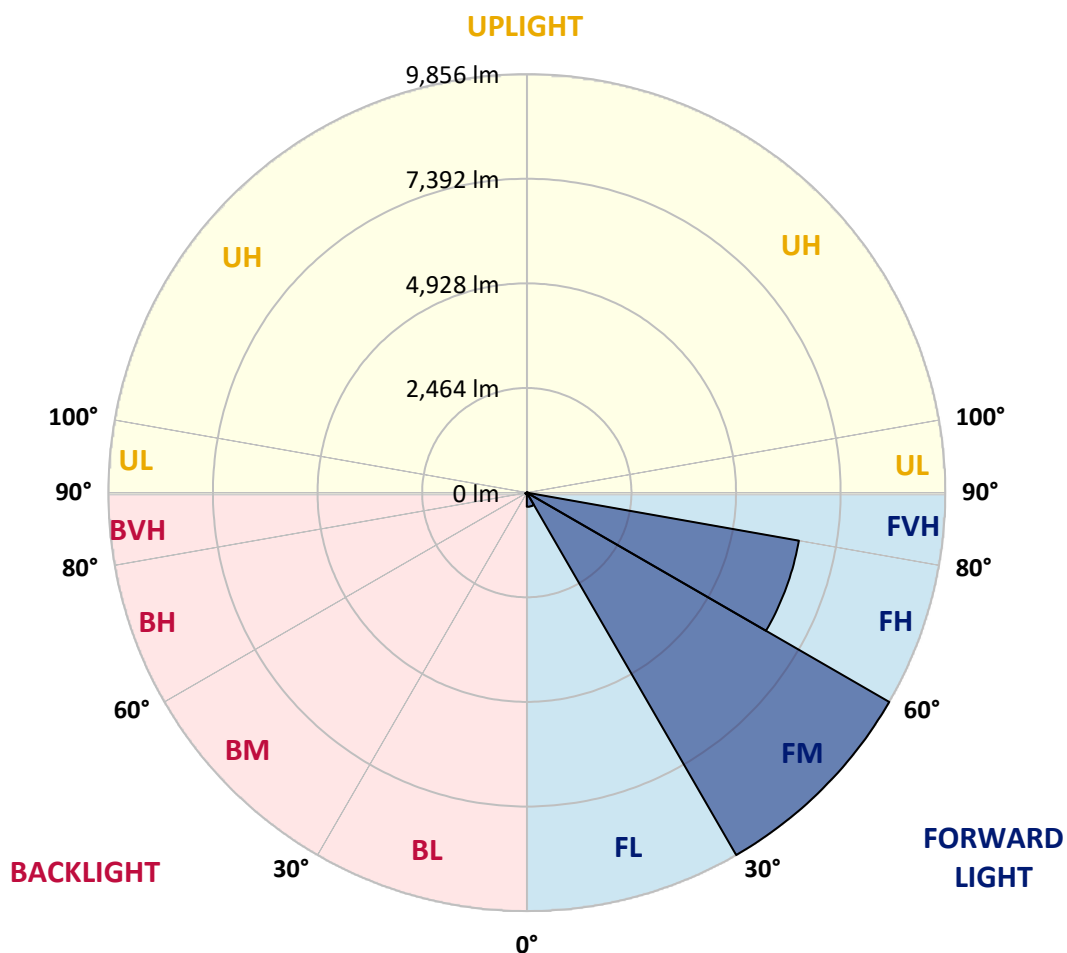
CATALOG NUMBER: NVN-SA6A-730-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	334.1	2.0			
FM	(30°-60°)	9856.5	58.6			
FH	(60°-80°)	6507.6	38.7			G3/7500
FVH	(80°-90°)	36.0	0.2			G1/100
BL	(0°-30°)	9.0	0.1	B0/110		
BM	(30°-60°)	33.1	0.2	B0/220		
BH	(60°-80°)	37.1	0.2	B0/110		G0/110
BVH	(80°-90°)	1.8	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°	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
2.5°	73.8	73.8	68.5	63.3	58.0	52.7	52.7	52.7	47.4	47.4	42.2
5°	84.4	84.4	79.1	73.8	73.8	68.5	68.5	63.3	58.0	58.0	52.7
7.5°	89.6	89.6	89.6	89.6	84.4	84.4	84.4	79.1	73.8	68.5	63.3
10°	94.9	100.2	105.4	105.4	105.4	105.4	105.4	100.2	89.6	84.4	73.8
12.5°	105.4	110.7	121.3	131.8	131.8	131.8	131.8	126.5	116.0	100.2	84.4
15°	116.0	126.5	142.3	163.4	184.5	189.8	189.8	174.0	152.9	121.3	100.2
17.5°	131.8	147.6	189.8	258.3	332.1	390.1	390.1	348.0	242.5	158.2	116.0
20°	142.3	174.0	305.8	622.1	949.0	1191.5	1144.1	1012.2	543.0	247.8	126.5
22.5°	158.2	221.4	648.5	1634.4	2530.6	2973.5	2868.0	2177.4	1217.9	442.9	152.9
25°	179.3	321.6	1286.4	3063.1	4702.7	5182.5	5114.0	4064.8	2219.6	743.4	195.1
27.5°	221.4	474.5	2061.4	4644.7	6938.1	7349.3	7323.0	5952.2	3548.1	1196.8	253.1
30°	279.4	690.6	3057.8	6310.7	8419.6	8836.1	8704.3	7333.5	4787.1	1829.4	326.9
32.5°	348.0	964.8	3959.4	7539.1	9785.1	10333.4	10175.2	8535.6	5783.5	2367.2	485.0
35°	453.4	1233.7	4850.4	8625.2	11361.4	12057.4	11793.7	9774.5	6642.9	2973.5	585.2
37.5°	506.1	1391.8	5667.5	9806.2	13132.9	14081.8	13881.5	11340.3	7518.1	3748.5	717.0
40°	511.4	1581.6	6516.3	11345.6	15637.1	17329.5	16971.0	14029.1	9147.1	4744.9	922.6
42.5°	527.2	1866.3	7618.2	13971.1	20556.0	22986.5	22580.5	18974.4	12842.9	6743.0	1307.5
45°	601.0	2404.1	9864.1	18879.5	27309.6	30873.6	30404.3	25865.0	18004.3	10502.1	2230.1
47.5°	859.4	3616.7	13802.4	24178.0	34216.1	37057.8	36941.8	31295.3	22680.7	14356.0	3780.1
50°	1381.3	5551.5	18283.7	28632.9	38613.0	41054.0	40764.1	33562.3	25348.4	16986.8	4845.1
52.5°	1845.2	7402.1	21099.0	30272.5	39925.8	42836.0	42482.8	34390.1	26049.6	17761.8	5140.3
55°	1961.2	8071.6	21937.3	30778.7	40795.7	44343.8	43832.4	34943.6	26139.2	17208.2	4650.0
57.5°	1903.2	7439.0	21394.3	31274.2	42008.3	45893.9	45213.7	36024.4	26439.7	16269.8	3869.7
59°	1803.1	6658.7	21056.9	31669.7	42677.9	46136.4	45498.4	36261.7	26640.0	15842.7	3395.2
60°	1687.1	6131.5	20793.3	31928.0	42635.7	45756.8	45097.8	36151.0	26719.1	15473.7	3168.5
62.5°	1302.2	4892.5	20413.7	31743.5	39973.3	42293.0	41918.7	33441.1	25559.3	14292.7	2499.0
65°	1012.2	3743.2	19021.8	28311.3	34015.8	35576.3	35460.3	28316.6	21510.3	12321.0	1803.1
67.5°	801.4	2731.0	16085.3	22928.5	27367.6	29587.2	29502.8	22986.5	16327.8	9416.0	1296.9
70°	653.7	1945.4	11029.3	17287.3	21889.9	24684.1	24562.8	18499.9	12099.5	5973.3	943.7
72.5°	553.6	1244.2	6690.3	13032.7	18267.9	19865.4	19512.1	14925.4	8799.2	3252.9	748.6
75°	469.2	764.5	3316.2	8124.3	10881.7	10871.1	10517.9	7902.9	4723.8	1592.2	595.8
77.5°	379.6	537.8	1302.2	2230.1	3432.2	4249.3	4180.8	2799.5	1412.9	463.9	369.0
80°	247.8	253.1	348.0	611.6	943.7	1043.9	1186.2	854.1	411.2	221.4	152.9
82.5°	110.7	121.3	158.2	200.3	200.3	184.5	163.4	121.3	89.6	73.8	36.9
85°	26.4	36.9	26.4	31.6	26.4	21.1	21.1	10.5	0.0	0.0	0.0
87.5°	5.3	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°	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
2.5°	42.2	42.2	42.2	36.9	36.9	36.9	31.6	31.6	31.6	26.4	26.4
5°	52.7	47.4	42.2	42.2	36.9	36.9	31.6	26.4	26.4	26.4	21.1
7.5°	58.0	52.7	47.4	42.2	36.9	31.6	31.6	26.4	21.1	21.1	21.1
10°	68.5	63.3	52.7	42.2	36.9	31.6	26.4	26.4	21.1	15.8	15.8
12.5°	79.1	68.5	58.0	47.4	36.9	31.6	26.4	26.4	21.1	15.8	10.5
15°	89.6	79.1	63.3	47.4	36.9	31.6	26.4	26.4	15.8	10.5	5.3
17.5°	100.2	84.4	63.3	52.7	36.9	31.6	26.4	21.1	10.5	5.3	0.0
20°	105.4	89.6	68.5	52.7	36.9	31.6	26.4	15.8	5.3	0.0	0.0
22.5°	116.0	100.2	73.8	52.7	36.9	26.4	15.8	5.3	0.0	0.0	0.0
25°	137.1	105.4	73.8	52.7	36.9	26.4	10.5	0.0	0.0	0.0	0.0
27.5°	152.9	116.0	73.8	52.7	36.9	21.1	5.3	0.0	0.0	0.0	0.0
30°	179.3	126.5	79.1	52.7	36.9	15.8	5.3	0.0	0.0	0.0	0.0
32.5°	221.4	137.1	79.1	52.7	31.6	15.8	0.0	0.0	0.0	0.0	0.0
35°	268.9	158.2	79.1	52.7	31.6	15.8	0.0	0.0	0.0	0.0	0.0
37.5°	274.2	168.7	79.1	52.7	31.6	10.5	0.0	0.0	0.0	0.0	0.0
40°	284.7	158.2	84.4	52.7	31.6	10.5	0.0	0.0	0.0	0.0	0.0
42.5°	326.9	147.6	89.6	52.7	31.6	10.5	0.0	0.0	0.0	0.0	0.0
45°	485.0	152.9	89.6	58.0	31.6	15.8	0.0	0.0	0.0	0.0	0.0
47.5°	843.5	158.2	84.4	58.0	31.6	15.8	0.0	0.0	0.0	0.0	0.0
50°	1080.8	184.5	84.4	63.3	36.9	10.5	0.0	0.0	0.0	0.0	0.0
52.5°	1149.3	216.2	84.4	68.5	47.4	5.3	0.0	0.0	0.0	0.0	0.0
55°	1117.7	253.1	89.6	73.8	58.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1033.3	274.2	94.9	79.1	63.3	0.0	0.0	0.0	0.0	0.0	0.0
59°	943.7	290.0	110.7	84.4	63.3	0.0	0.0	0.0	0.0	0.0	0.0
60°	869.9	305.8	116.0	89.6	63.3	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	701.2	326.9	126.5	105.4	52.7	0.0	0.0	0.0	0.0	0.0	0.0
65°	611.6	342.7	131.8	116.0	47.4	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	558.8	353.2	142.3	121.3	42.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	516.7	348.0	152.9	116.0	36.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	469.2	332.1	184.5	105.4	31.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	421.8	300.5	200.3	94.9	21.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	305.8	253.1	184.5	84.4	10.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	131.8	137.1	131.8	63.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	26.4	31.6	26.4	15.8	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°	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
2.5°	26.4	26.4	26.4	26.4	31.6	31.6	42.2	52.7	63.3	68.5	68.5
5°	21.1	21.1	21.1	21.1	21.1	26.4	31.6	42.2	58.0	63.3	63.3
7.5°	15.8	15.8	15.8	15.8	15.8	15.8	26.4	36.9	52.7	58.0	63.3
10°	15.8	10.5	10.5	5.3	5.3	10.5	15.8	31.6	47.4	52.7	58.0
12.5°	10.5	5.3	5.3	0.0	0.0	5.3	10.5	26.4	42.2	47.4	52.7
15°	5.3	0.0	0.0	0.0	0.0	0.0	5.3	21.1	36.9	42.2	52.7
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.8	31.6	42.2	47.4
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.5	26.4	36.9	42.2
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	21.1	31.6	36.9
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.8	21.1	26.4
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.5	15.8	21.1
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.5	15.8	21.1
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	10.5	15.8
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	10.5	15.8
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	10.5	10.5
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	10.5
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	10.5
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	10.5
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	10.5
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	10.5
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	10.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	10.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3
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°	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
2.5°	73.8	73.8	68.5	63.3	63.3	63.3	68.5	73.8	73.8	73.8
5°	68.5	68.5	63.3	63.3	63.3	63.3	68.5	79.1	84.4	84.4
7.5°	68.5	68.5	63.3	63.3	63.3	63.3	68.5	79.1	84.4	89.6
10°	63.3	63.3	63.3	63.3	58.0	63.3	68.5	79.1	94.9	94.9
12.5°	63.3	63.3	63.3	63.3	58.0	63.3	73.8	84.4	100.2	105.4
15°	63.3	63.3	63.3	58.0	58.0	63.3	73.8	89.6	105.4	116.0
17.5°	58.0	63.3	63.3	58.0	58.0	63.3	73.8	89.6	116.0	131.8
20°	52.7	58.0	63.3	58.0	58.0	58.0	73.8	89.6	121.3	142.3
22.5°	47.4	52.7	58.0	58.0	52.7	58.0	73.8	94.9	131.8	158.2
25°	42.2	47.4	47.4	52.7	52.7	58.0	73.8	94.9	137.1	179.3
27.5°	31.6	36.9	42.2	47.4	47.4	58.0	73.8	100.2	147.6	221.4
30°	26.4	31.6	36.9	42.2	47.4	58.0	73.8	100.2	158.2	279.4
32.5°	26.4	31.6	36.9	42.2	47.4	52.7	73.8	105.4	174.0	348.0
35°	21.1	26.4	31.6	42.2	42.2	52.7	73.8	105.4	189.8	453.4
37.5°	21.1	26.4	31.6	42.2	42.2	52.7	73.8	105.4	232.0	506.1
40°	15.8	21.1	26.4	42.2	42.2	52.7	79.1	110.7	237.2	511.4
42.5°	15.8	21.1	26.4	36.9	42.2	52.7	79.1	110.7	221.4	527.2
45°	15.8	21.1	26.4	42.2	47.4	58.0	79.1	116.0	216.2	601.0
47.5°	15.8	21.1	26.4	42.2	52.7	58.0	79.1	116.0	221.4	859.4
50°	15.8	21.1	26.4	42.2	58.0	58.0	79.1	116.0	242.5	1381.3
52.5°	10.5	15.8	21.1	36.9	47.4	63.3	84.4	110.7	258.3	1845.2
55°	10.5	10.5	15.8	31.6	42.2	68.5	89.6	110.7	300.5	1961.2
57.5°	10.5	10.5	15.8	26.4	36.9	73.8	94.9	110.7	348.0	1903.2
59°	10.5	10.5	10.5	26.4	31.6	73.8	94.9	116.0	353.2	1803.1
60°	10.5	10.5	10.5	21.1	31.6	73.8	100.2	121.3	358.5	1687.1
62.5°	5.3	5.3	5.3	21.1	26.4	73.8	110.7	147.6	369.0	1302.2
65°	10.5	10.5	5.3	15.8	26.4	63.3	126.5	158.2	374.3	1012.2
67.5°	10.5	10.5	10.5	21.1	26.4	63.3	131.8	163.4	374.3	801.4
70°	10.5	10.5	10.5	21.1	31.6	63.3	131.8	168.7	369.0	653.7
72.5°	10.5	10.5	10.5	21.1	31.6	58.0	121.3	174.0	353.2	553.6
75°	10.5	10.5	10.5	15.8	26.4	52.7	116.0	189.8	321.6	469.2
77.5°	10.5	10.5	10.5	10.5	21.1	42.2	105.4	210.9	284.7	379.6
80°	15.8	10.5	10.5	10.5	15.8	36.9	100.2	205.6	237.2	247.8
82.5°	15.8	10.5	10.5	5.3	10.5	26.4	79.1	158.2	121.3	110.7
85°	10.5	10.5	10.5	5.3	5.3	15.8	36.9	47.4	36.9	26.4
87.5°	10.5	10.5	10.5	5.3	5.3	5.3	5.3	5.3	5.3	5.3
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: SP1-2407-184-4

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-730-U-5WQ

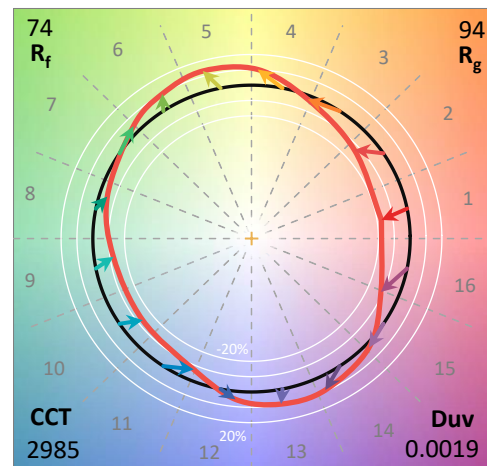
Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-4
 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-730-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 3000K CCT 26 LEDS

Spectral Parameters

CCT (K):	2985	CRI (Ra):	70.8		
CIE u':	0.2504	R1:	66.3	R9:	-43.2
CIE v':	0.5243	R2:	80.6	R10:	57.6
Duv:	0.0019	R3:	94.5	R11:	64.8
CIE x:	0.4408	R4:	68.2	R12:	53.5
CIE y:	0.4101	R5:	66.5	R13:	68.7
CIE z:	0.1491	R6:	74.7	R14:	97.0
Peak Wavelength (nm):	595	R7:	76.2	R15:	56.4
Dominant Wavelength (nm):	582	R8:	39.6		
Purity:	55.41818				
Rf:	73.8				
Rg:	94.4				



Test Conditions

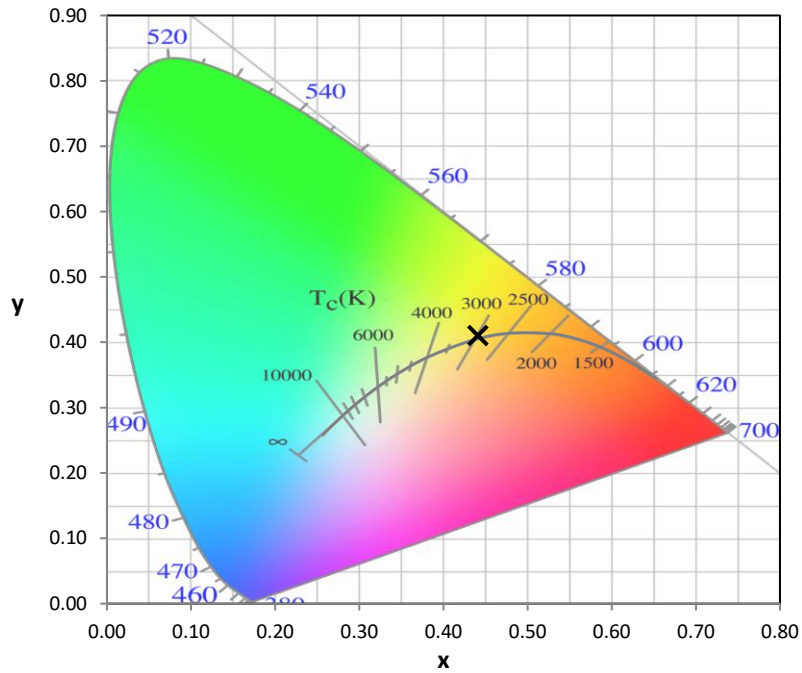
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

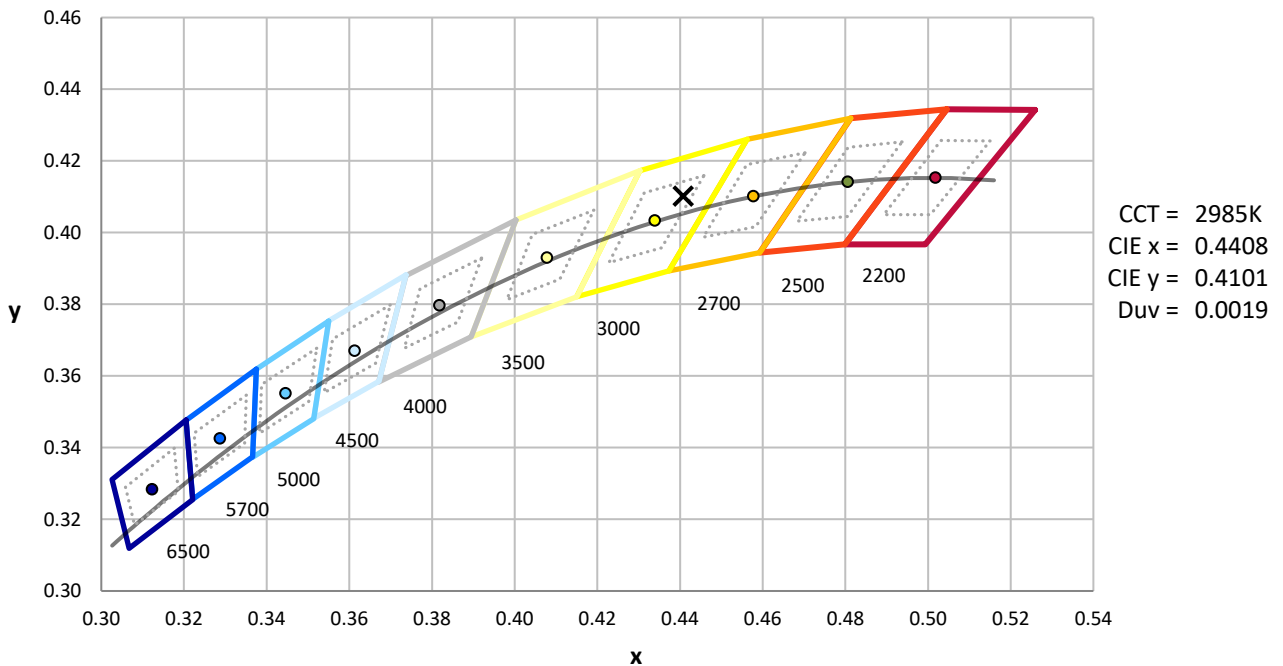
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



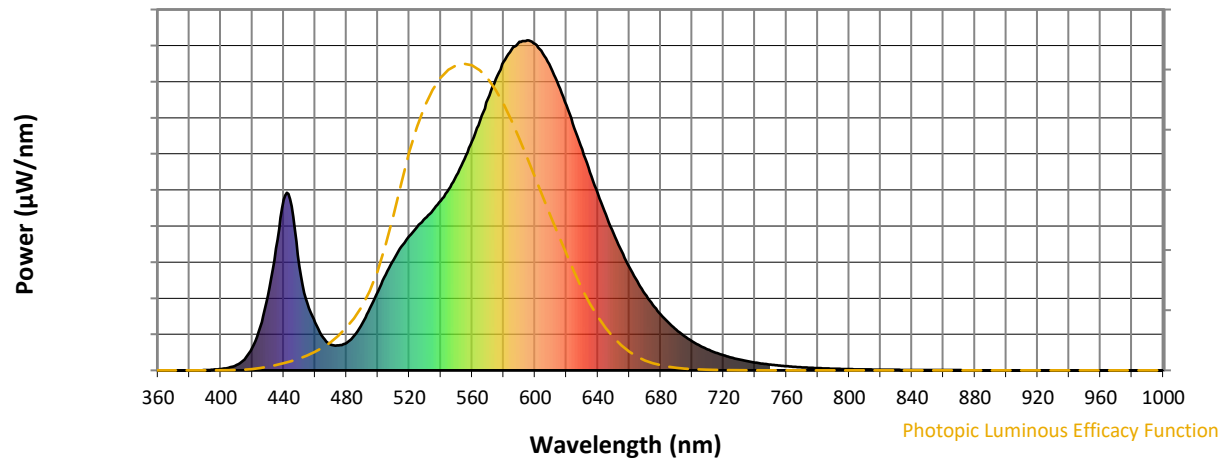
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

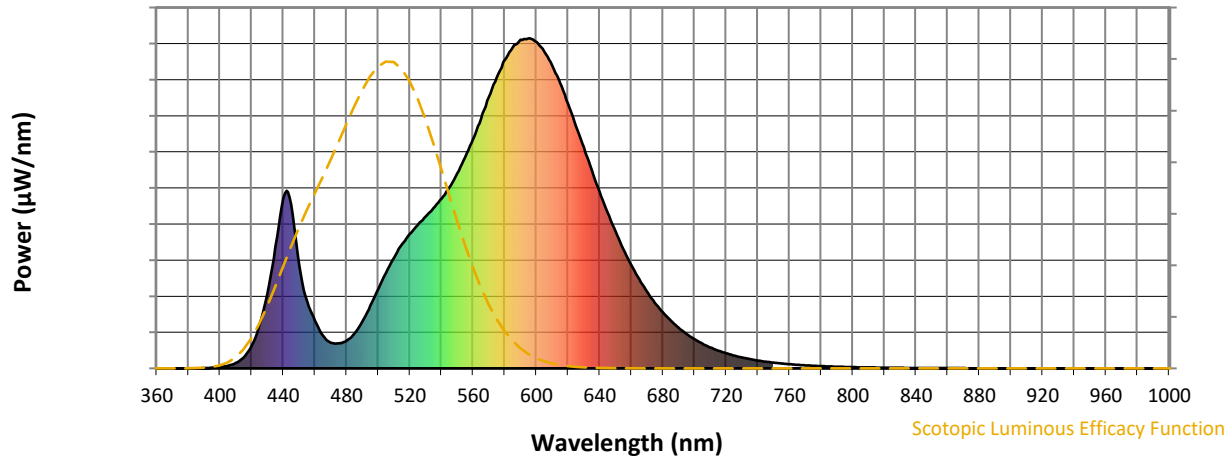


Photopic Lumens: NR

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

Scotopic Flux vs. Wavelength



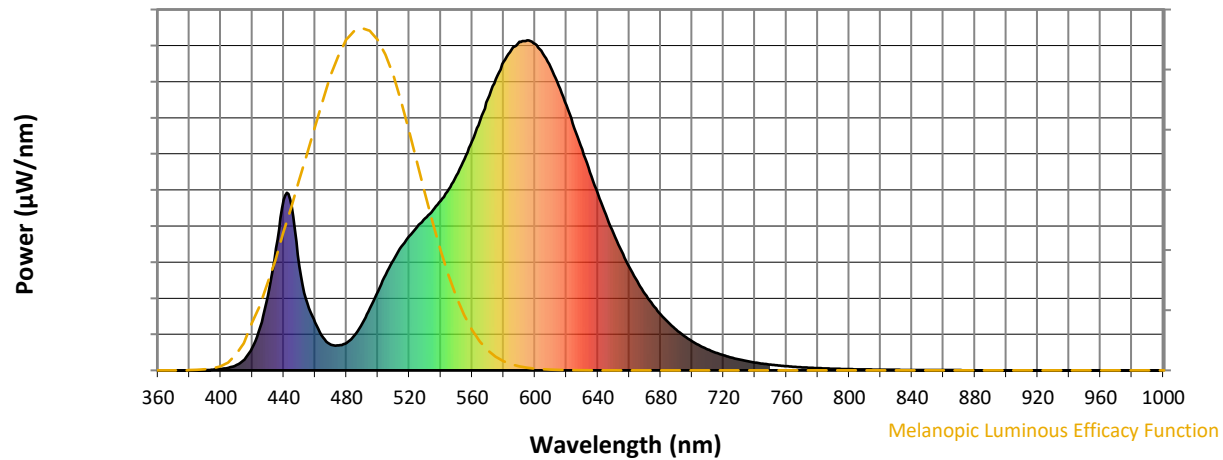
Scotopic Lumens: NR

S/P: 1.19

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.13

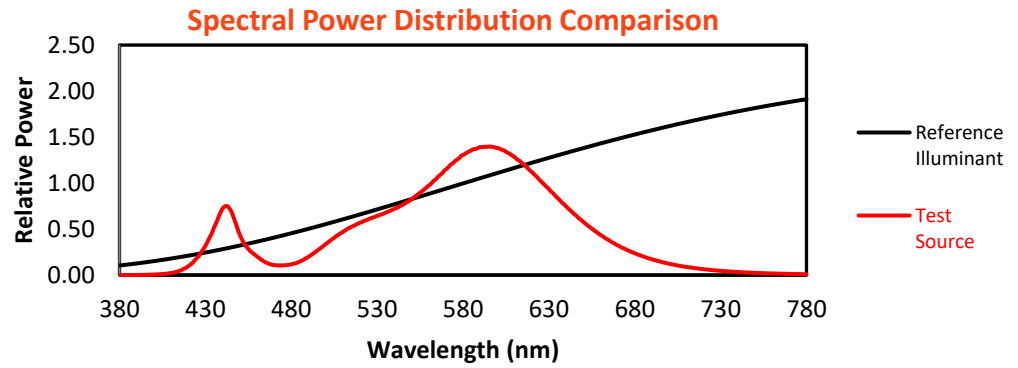
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

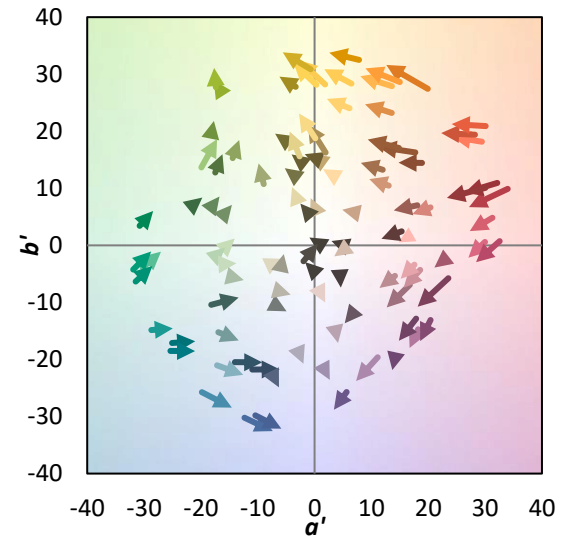
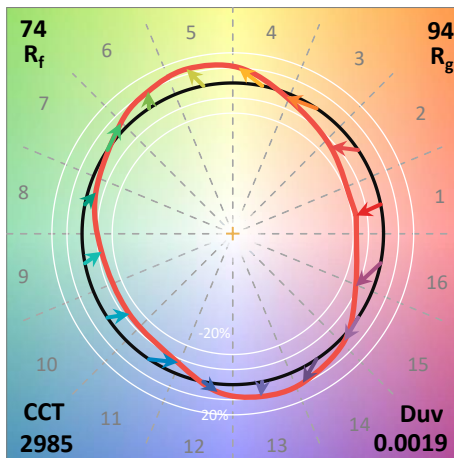
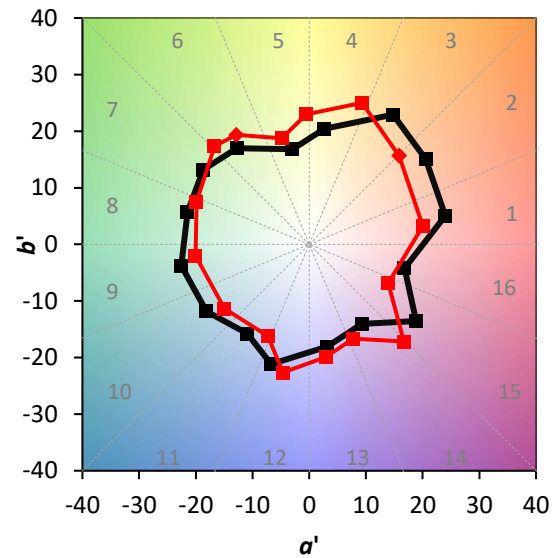
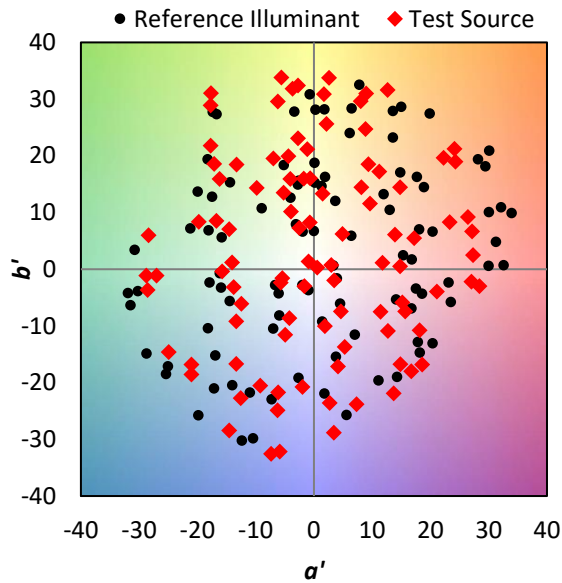
TM-30-18

Summary

$R_f = 73.8$
 $R_g = 94.4$
 $\text{CIE } R_a = 70.8$
 $R_g = -43.2$

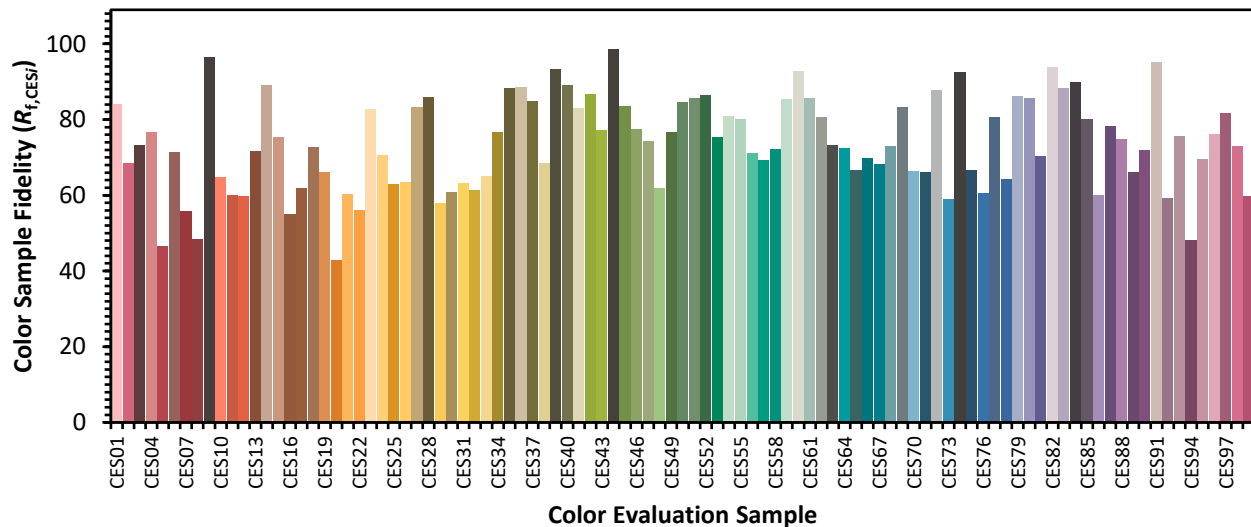


Color Vector Graphics

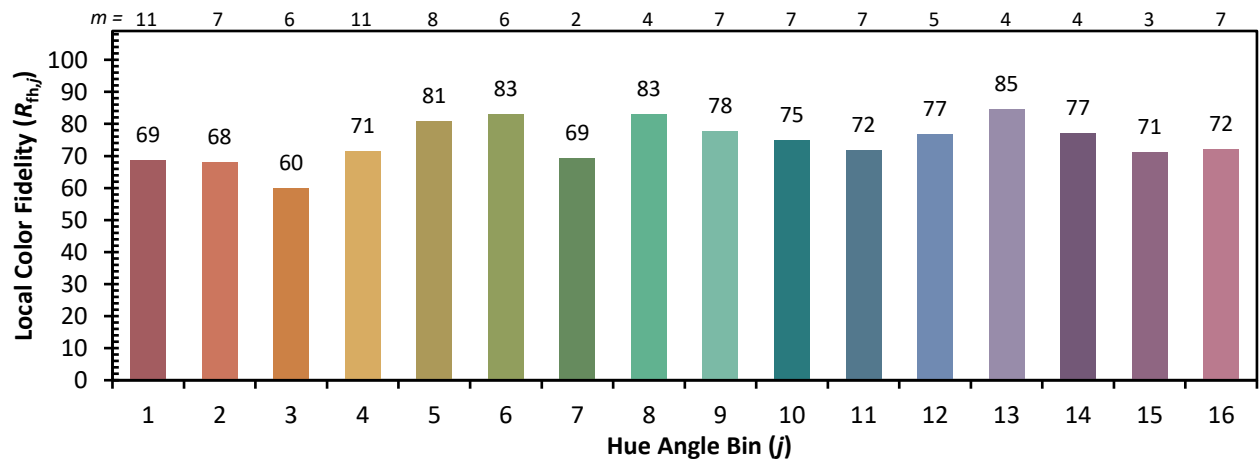
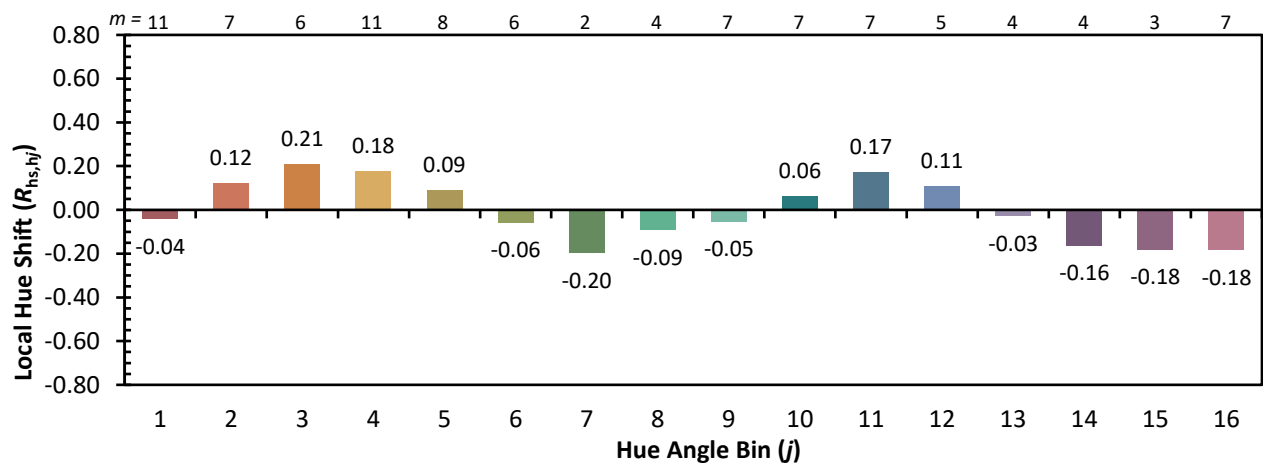
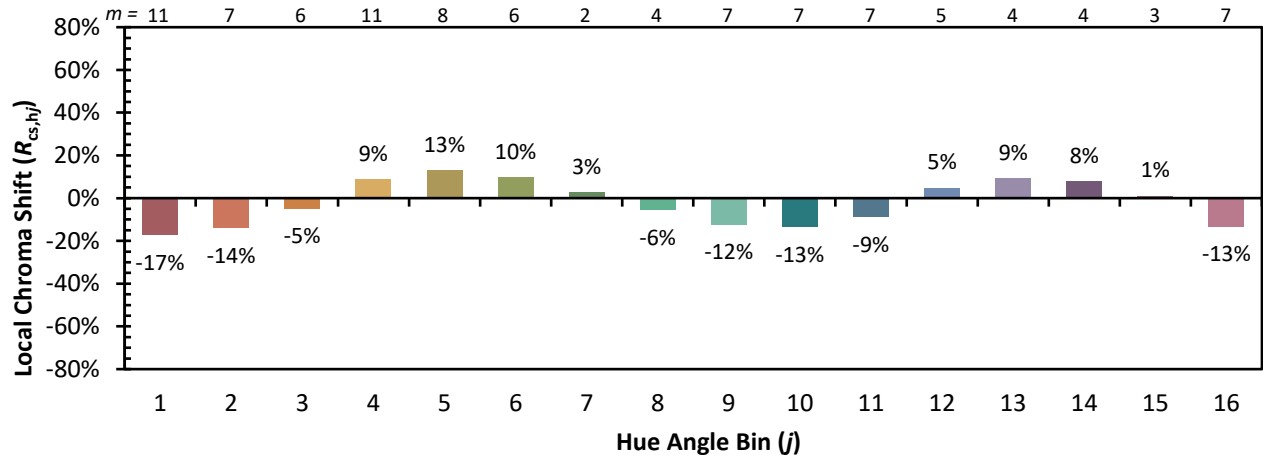


Individual Sample Fidelity Index ($R_{f,i}$)

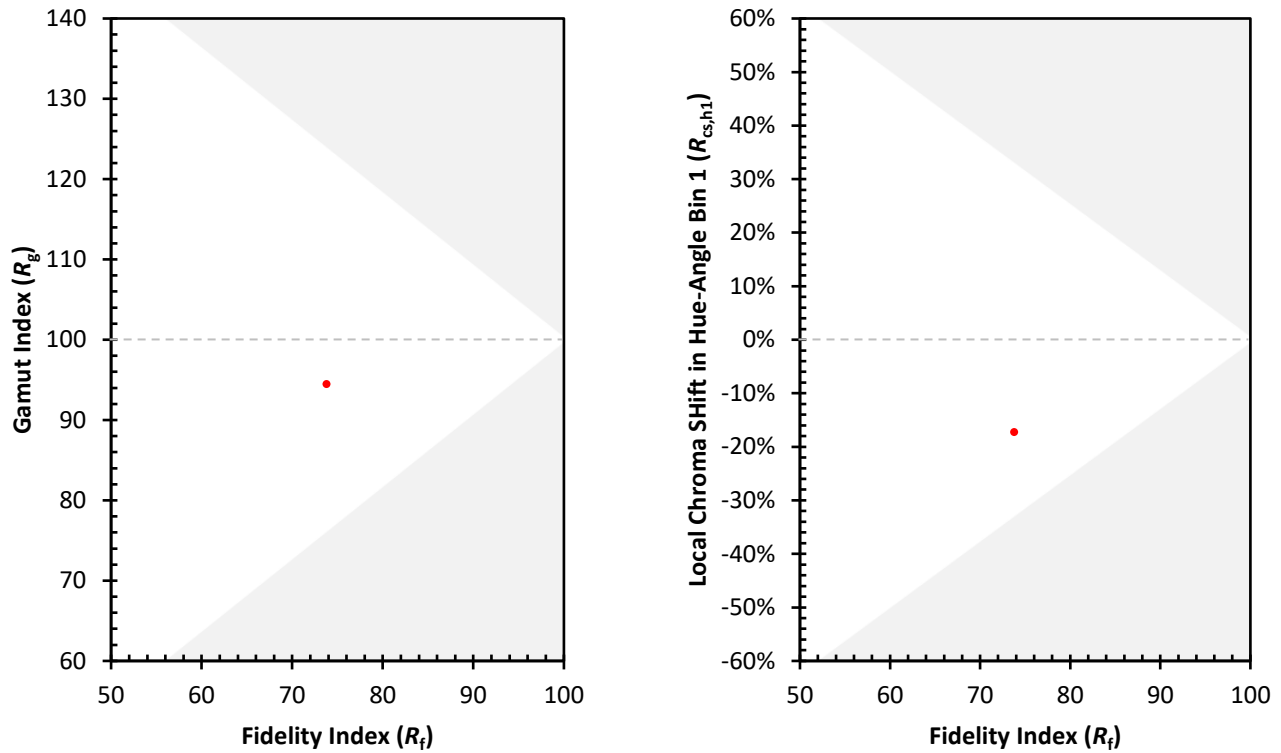
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 94
CES08 = 40	CES33 = 65	CES58 = 72	CES83 = 88
CES09 = 29	CES34 = 77	CES59 = 85	CES84 = 90
CES10 = 76	CES35 = 88	CES60 = 93	CES85 = 80
CES11 = 59	CES36 = 89	CES61 = 86	CES86 = 60
CES12 = 65	CES37 = 85	CES62 = 81	CES87 = 78
CES13 = 43	CES38 = 69	CES63 = 73	CES88 = 75
CES14 = 74	CES39 = 93	CES64 = 72	CES89 = 66
CES15 = 71	CES40 = 89	CES65 = 67	CES90 = 72
CES16 = 47	CES41 = 83	CES66 = 70	CES91 = 95
CES17 = 50	CES42 = 87	CES67 = 68	CES92 = 59
CES18 = 56	CES43 = 77	CES68 = 73	CES93 = 76
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 66	CES45 = 83	CES70 = 66	CES95 = 70
CES21 = 87	CES46 = 77	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 74	CES72 = 88	CES97 = 82
CES23 = 92	CES48 = 62	CES73 = 59	CES98 = 73
CES24 = 91	CES49 = 77	CES74 = 93	CES99 = 60
CES25 = 73	CES50 = 85	CES75 = 67	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)