

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: P1068091

Luminaire Tested: **NAV-SA2C-835-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1068091
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA2C-835-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 2xLight Square PACKAGE
80CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8466.7 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 96.2
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



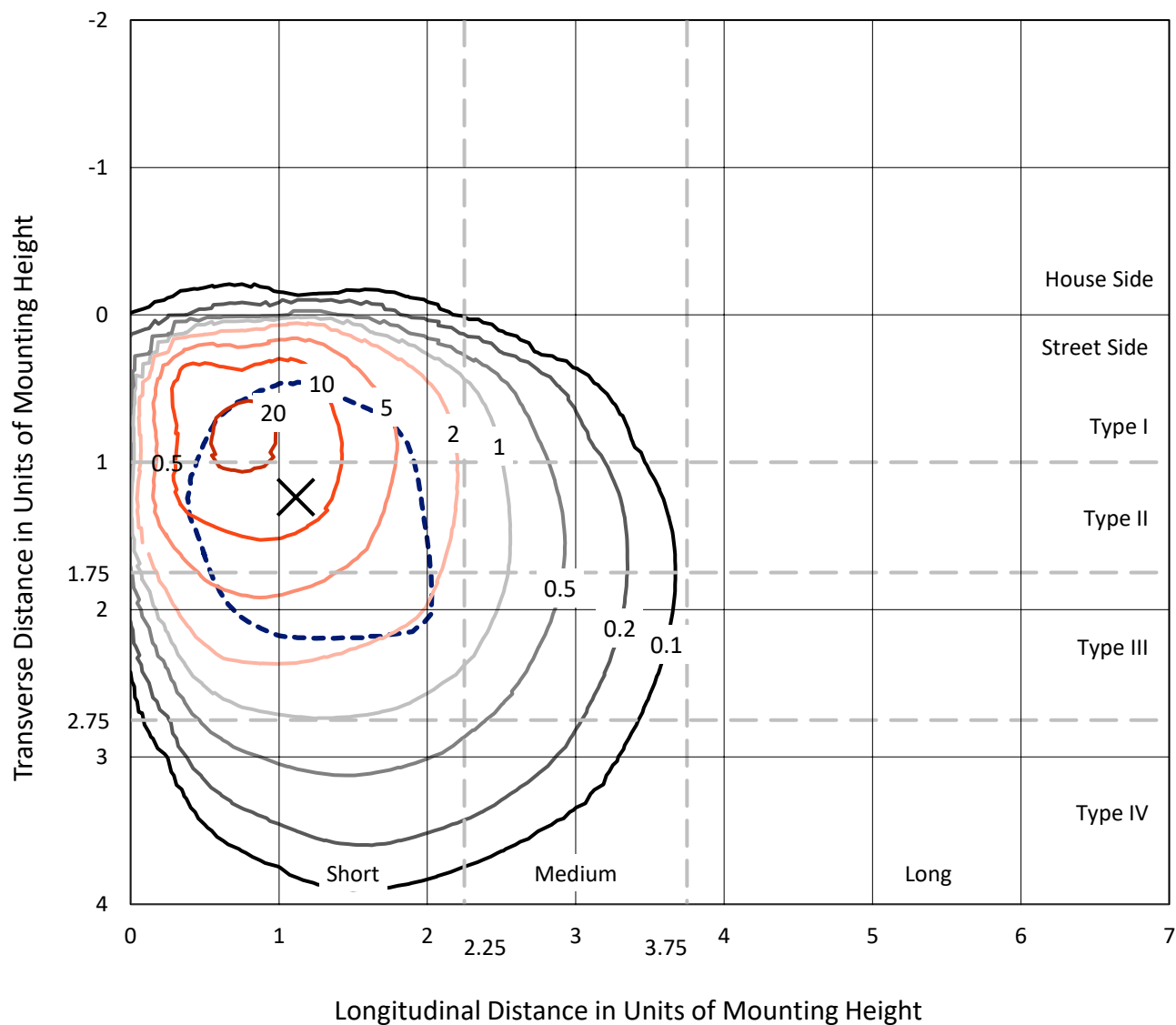
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

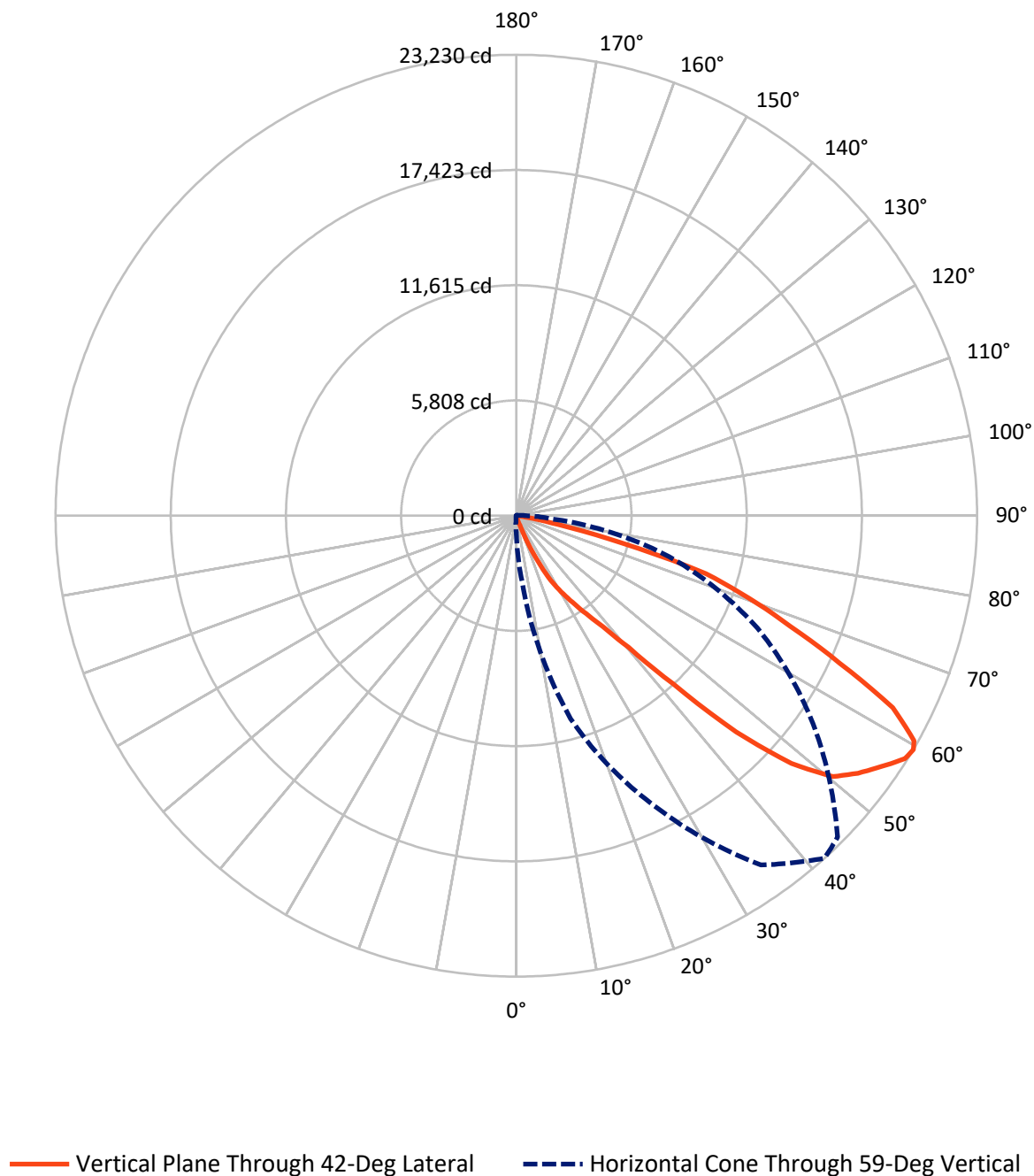


Based on 15 foot mounting height. Maximum calculated value = 25.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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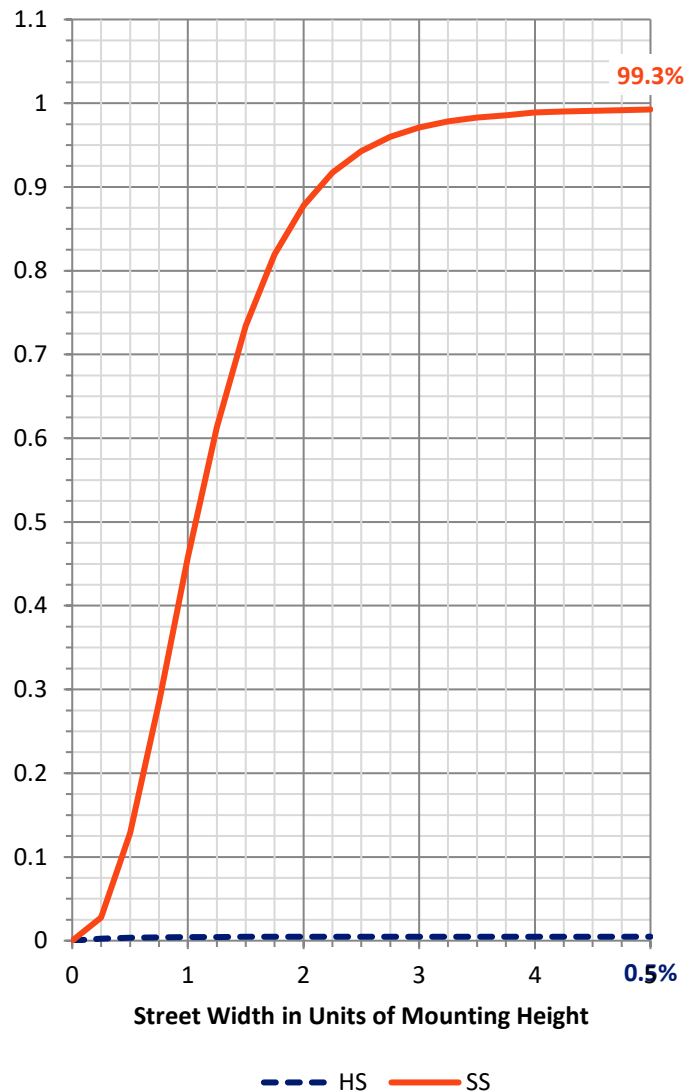
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	40.8	0.0	40.8
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	8425.9	0.0	8425.9
	% Fixture	99.5	0.0	99.5
Total	Lumens	8466.7	0.0	8466.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.5	0.0
10°-20°	12.3	0.1
20°-30°	157.9	1.9
30°-40°	532.4	6.3
40°-50°	1608.2	19.0
50°-60°	2838.9	33.5
60°-70°	2499.7	29.5
70°-80°	795.7	9.4
80°-90°	19.0	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°	8466.7	100.0
0°-180°	8466.7	100.0



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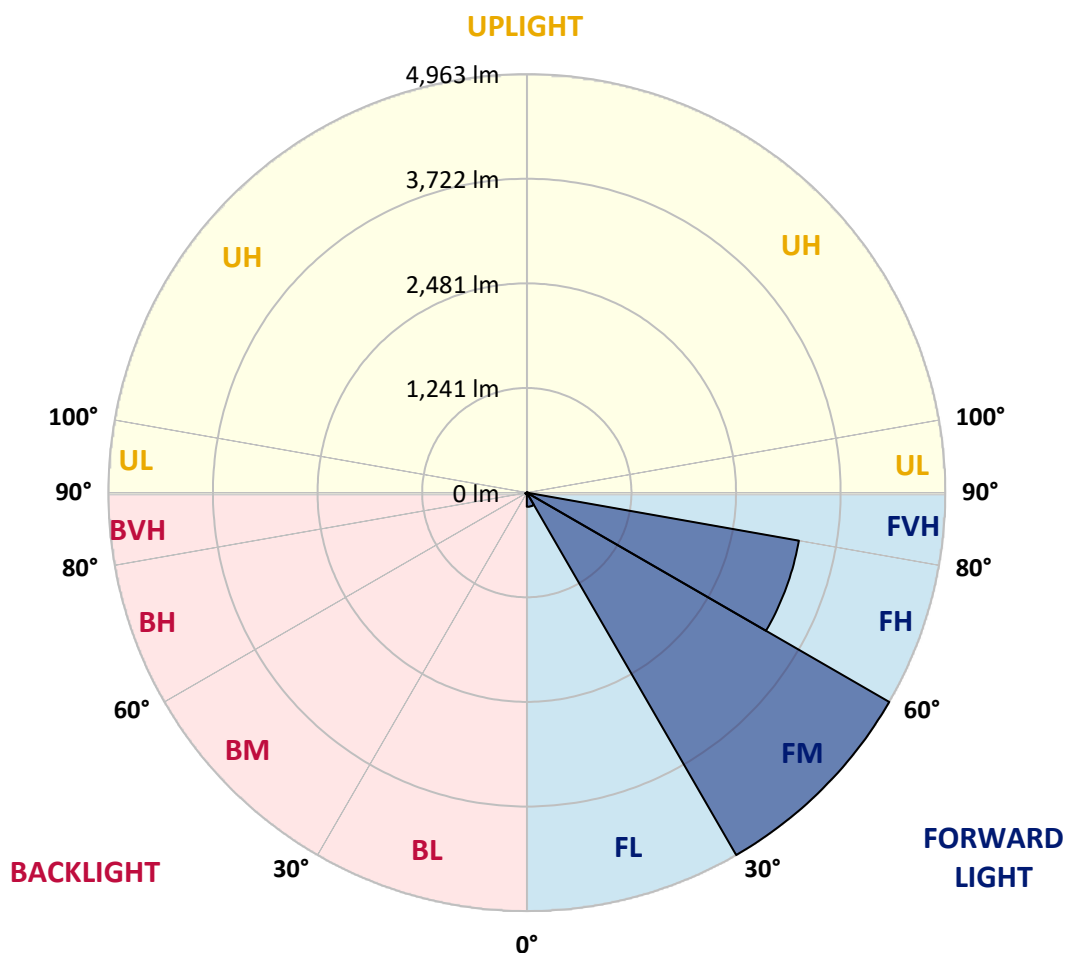
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	168.2	2.0			
FM	(30°-60°)	4962.9	58.6			
FH	(60°-80°)	3276.7	38.7			G2/5000
FVH	(80°-90°)	18.1	0.2			G1/100
BL	(0°-30°)	4.6	0.1	B0/110		
BM	(30°-60°)	16.7	0.2	B0/220		
BH	(60°-80°)	18.7	0.2	B0/110		G0/110
BVH	(80°-90°)	0.9	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9
2.5°	37.2	37.2	34.5	31.9	29.2	26.5	26.5	26.5	23.9	23.9	21.2
5°	42.5	42.5	39.8	37.2	37.2	34.5	34.5	31.9	29.2	29.2	26.5
7.5°	45.1	45.1	45.1	45.1	42.5	42.5	42.5	39.8	37.2	34.5	31.9
10°	47.8	50.4	53.1	53.1	53.1	53.1	53.1	50.4	45.1	42.5	37.2
12.5°	53.1	55.7	61.1	66.4	66.4	69.0	66.4	63.7	58.4	50.4	42.5
15°	58.4	63.7	71.7	82.3	92.9	95.6	95.6	87.6	77.0	61.1	50.4
17.5°	66.4	74.3	95.6	130.1	167.2	196.4	196.4	175.2	122.1	79.6	58.4
20°	71.7	87.6	154.0	313.2	477.8	599.9	576.0	509.7	273.4	124.8	63.7
22.5°	79.6	111.5	326.5	822.9	1274.2	1497.2	1444.1	1096.3	613.2	223.0	77.0
25°	90.3	161.9	647.7	1542.3	2367.9	2609.5	2574.9	2046.7	1117.6	374.3	98.2
27.5°	111.5	238.9	1037.9	2338.7	3493.4	3700.5	3687.2	2997.0	1786.5	602.6	127.4
30°	140.7	347.8	1539.7	3177.5	4239.4	4449.1	4382.7	3692.5	2410.4	921.1	164.6
32.5°	175.2	485.8	1993.6	3796.0	4926.9	5203.0	5123.3	4297.8	2912.1	1191.9	244.2
35°	228.3	621.2	2442.2	4342.9	5720.6	6071.0	5938.3	4921.6	3344.8	1497.2	294.7
37.5°	254.8	700.8	2853.7	4937.5	6612.6	7090.4	6989.5	5710.0	3785.4	1887.4	361.0
40°	257.5	796.4	3281.1	5712.7	7873.5	8725.6	8545.1	7063.8	4605.7	2389.1	464.6
42.5°	265.5	939.7	3835.9	7034.6	10350.2	11574.0	11369.6	9553.8	6466.6	3395.2	658.3
45°	302.6	1210.5	4966.7	9506.1	13750.7	15545.2	15309.0	13023.4	9065.4	5287.9	1122.9
47.5°	432.7	1821.0	6949.7	12173.9	17228.2	18659.0	18600.6	15757.6	11420.0	7228.4	1903.3
50°	695.5	2795.3	9206.1	14417.0	19442.1	20671.2	20525.2	16899.1	12763.2	8553.1	2439.6
52.5°	929.1	3727.0	10623.6	15242.6	20103.1	21568.5	21390.6	17315.8	13116.3	8943.3	2588.2
55°	987.5	4064.2	11045.7	15497.4	20541.1	22327.7	22070.2	17594.6	13161.4	8664.6	2341.3
57.5°	958.3	3745.6	10772.3	15747.0	21151.7	23108.1	22765.7	18138.7	13312.7	8192.0	1948.5
59°	907.9	3352.7	10602.4	15946.1	21488.8	23230.2	22909.0	18258.2	13413.6	7977.0	1709.5
60°	849.5	3087.3	10469.7	16076.1	21467.6	23039.1	22707.3	18202.5	13453.4	7791.2	1595.4
62.5°	655.7	2463.5	10278.5	15983.2	20127.0	21295.0	21106.6	16838.0	12869.4	7196.6	1258.3
65°	509.7	1884.8	9577.7	14255.1	17127.4	17913.1	17854.7	14257.8	10830.7	6203.8	907.9
67.5°	403.5	1375.1	8099.1	11544.8	13779.9	14897.5	14855.0	11574.0	8221.2	4741.1	653.0
70°	329.2	979.5	5553.4	8704.4	11021.8	12428.7	12367.7	9314.9	6092.3	3007.6	475.2
72.5°	278.7	626.5	3368.7	6562.1	9198.1	10002.5	9824.6	7515.1	4430.5	1637.9	377.0
75°	236.3	384.9	1669.7	4090.7	5479.1	5473.7	5295.9	3979.2	2378.5	801.7	300.0
77.5°	191.1	270.8	655.7	1122.9	1728.1	2139.6	2105.1	1409.6	711.4	233.6	185.8
80°	124.8	127.4	175.2	307.9	475.2	525.6	597.3	430.0	207.1	111.5	77.0
82.5°	55.7	61.1	79.6	100.9	100.9	92.9	82.3	61.1	45.1	37.2	18.6
85°	13.3	18.6	13.3	15.9	13.3	10.6	10.6	5.3	0.0	0.0	0.0
87.5°	2.7	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°	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9
2.5°	21.2	21.2	21.2	18.6	18.6	18.6	15.9	15.9	15.9	13.3	13.3
5°	26.5	23.9	21.2	21.2	18.6	18.6	15.9	13.3	13.3	13.3	10.6
7.5°	29.2	26.5	23.9	21.2	18.6	15.9	15.9	13.3	10.6	10.6	10.6
10°	34.5	31.9	26.5	21.2	18.6	15.9	13.3	13.3	10.6	8.0	8.0
12.5°	39.8	34.5	29.2	23.9	18.6	15.9	13.3	13.3	10.6	8.0	5.3
15°	45.1	39.8	31.9	23.9	18.6	15.9	13.3	13.3	8.0	5.3	2.7
17.5°	50.4	42.5	31.9	26.5	18.6	15.9	13.3	10.6	5.3	2.7	0.0
20°	53.1	45.1	34.5	26.5	18.6	15.9	13.3	8.0	2.7	0.0	0.0
22.5°	58.4	50.4	37.2	26.5	18.6	13.3	8.0	2.7	0.0	0.0	0.0
25°	69.0	53.1	37.2	26.5	18.6	13.3	5.3	0.0	0.0	0.0	0.0
27.5°	77.0	58.4	37.2	26.5	18.6	10.6	2.7	0.0	0.0	0.0	0.0
30°	90.3	63.7	39.8	26.5	18.6	8.0	2.7	0.0	0.0	0.0	0.0
32.5°	111.5	69.0	39.8	26.5	15.9	8.0	0.0	0.0	0.0	0.0	0.0
35°	135.4	79.6	39.8	26.5	15.9	8.0	0.0	0.0	0.0	0.0	0.0
37.5°	138.0	84.9	39.8	26.5	15.9	5.3	0.0	0.0	0.0	0.0	0.0
40°	143.3	79.6	42.5	26.5	15.9	5.3	0.0	0.0	0.0	0.0	0.0
42.5°	164.6	74.3	45.1	26.5	15.9	5.3	0.0	0.0	0.0	0.0	0.0
45°	244.2	77.0	45.1	29.2	15.9	8.0	0.0	0.0	0.0	0.0	0.0
47.5°	424.7	79.6	42.5	29.2	15.9	8.0	0.0	0.0	0.0	0.0	0.0
50°	544.2	92.9	42.5	31.9	18.6	5.3	0.0	0.0	0.0	0.0	0.0
52.5°	578.7	108.8	42.5	34.5	23.9	2.7	0.0	0.0	0.0	0.0	0.0
55°	562.8	127.4	45.1	37.2	29.2	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	520.3	138.0	47.8	39.8	31.9	0.0	0.0	0.0	0.0	0.0	0.0
59°	475.2	146.0	55.7	42.5	31.9	0.0	0.0	0.0	0.0	0.0	0.0
60°	438.0	154.0	58.4	45.1	31.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	353.1	164.6	63.7	53.1	26.5	0.0	0.0	0.0	0.0	0.0	0.0
65°	307.9	172.5	66.4	58.4	23.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	281.4	177.9	71.7	61.1	21.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	260.1	175.2	77.0	58.4	18.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	236.3	167.2	92.9	53.1	15.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	212.4	151.3	100.9	47.8	10.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	154.0	127.4	92.9	42.5	5.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	66.4	69.0	66.4	31.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.3	15.9	13.3	8.0	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°	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9
2.5°	13.3	13.3	13.3	13.3	15.9	15.9	21.2	26.5	31.9	34.5	34.5
5°	10.6	10.6	10.6	10.6	10.6	13.3	15.9	21.2	29.2	31.9	31.9
7.5°	8.0	8.0	8.0	8.0	8.0	8.0	13.3	18.6	26.5	29.2	31.9
10°	8.0	5.3	5.3	2.7	2.7	5.3	8.0	15.9	23.9	26.5	29.2
12.5°	5.3	2.7	2.7	0.0	0.0	2.7	5.3	13.3	21.2	23.9	26.5
15°	2.7	0.0	0.0	0.0	0.0	0.0	2.7	10.6	18.6	21.2	26.5
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	15.9	21.2	23.9
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	13.3	18.6	21.2
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	10.6	15.9	18.6
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	10.6	13.3
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	8.0	10.6
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	8.0	10.6
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.3	8.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.3	8.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.3	5.3
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.3
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.3
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.3
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.3
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.3
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7
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°	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9
2.5°	37.2	37.2	34.5	31.9	31.9	31.9	34.5	37.2	37.2	37.2
5°	34.5	34.5	31.9	31.9	31.9	31.9	34.5	39.8	42.5	42.5
7.5°	34.5	34.5	31.9	31.9	31.9	31.9	34.5	39.8	42.5	45.1
10°	31.9	31.9	31.9	31.9	29.2	31.9	34.5	39.8	47.8	47.8
12.5°	31.9	31.9	31.9	31.9	29.2	31.9	37.2	42.5	50.4	53.1
15°	31.9	31.9	31.9	29.2	29.2	31.9	37.2	45.1	53.1	58.4
17.5°	29.2	31.9	31.9	29.2	29.2	31.9	37.2	45.1	58.4	66.4
20°	26.5	29.2	31.9	29.2	29.2	29.2	37.2	45.1	61.1	71.7
22.5°	23.9	26.5	29.2	29.2	26.5	29.2	37.2	47.8	66.4	79.6
25°	21.2	23.9	23.9	26.5	26.5	29.2	37.2	47.8	69.0	90.3
27.5°	15.9	18.6	21.2	23.9	23.9	29.2	37.2	50.4	74.3	111.5
30°	13.3	15.9	18.6	21.2	23.9	29.2	37.2	50.4	79.6	140.7
32.5°	13.3	15.9	18.6	21.2	23.9	26.5	37.2	53.1	87.6	175.2
35°	10.6	13.3	15.9	21.2	21.2	26.5	37.2	53.1	95.6	228.3
37.5°	10.6	13.3	15.9	21.2	21.2	26.5	37.2	53.1	116.8	254.8
40°	8.0	10.6	13.3	21.2	21.2	26.5	39.8	55.7	119.5	257.5
42.5°	8.0	10.6	13.3	18.6	21.2	26.5	39.8	55.7	111.5	265.5
45°	8.0	10.6	13.3	21.2	23.9	29.2	39.8	58.4	108.8	302.6
47.5°	8.0	10.6	13.3	21.2	26.5	29.2	39.8	58.4	111.5	432.7
50°	8.0	10.6	13.3	21.2	29.2	29.2	39.8	58.4	122.1	695.5
52.5°	5.3	8.0	10.6	18.6	23.9	31.9	42.5	55.7	130.1	929.1
55°	5.3	5.3	8.0	15.9	21.2	34.5	45.1	55.7	151.3	987.5
57.5°	5.3	5.3	8.0	13.3	18.6	37.2	47.8	55.7	175.2	958.3
59°	5.3	5.3	5.3	13.3	15.9	37.2	47.8	58.4	177.9	907.9
60°	5.3	5.3	5.3	10.6	15.9	37.2	50.4	61.1	180.5	849.5
62.5°	2.7	2.7	2.7	10.6	13.3	37.2	55.7	74.3	185.8	655.7
65°	5.3	5.3	2.7	8.0	13.3	31.9	63.7	79.6	188.5	509.7
67.5°	5.3	5.3	5.3	10.6	13.3	31.9	66.4	82.3	188.5	403.5
70°	5.3	5.3	5.3	10.6	15.9	31.9	66.4	84.9	185.8	329.2
72.5°	5.3	5.3	5.3	10.6	15.9	29.2	61.1	87.6	177.9	278.7
75°	5.3	5.3	5.3	8.0	13.3	26.5	58.4	95.6	161.9	236.3
77.5°	5.3	5.3	5.3	5.3	10.6	21.2	53.1	106.2	143.3	191.1
80°	8.0	5.3	5.3	5.3	8.0	18.6	50.4	103.5	119.5	124.8
82.5°	8.0	5.3	5.3	2.7	5.3	13.3	39.8	79.6	61.1	55.7
85°	5.3	5.3	5.3	2.7	2.7	8.0	18.6	23.9	18.6	13.3
87.5°	5.3	5.3	5.3	2.7	2.7	2.7	2.7	2.7	2.7	2.7
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: SP1-2407-184-10

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-835-U-5WQ

Data in this report applies to families of products including GSS-SB1A-835-U-5WQ

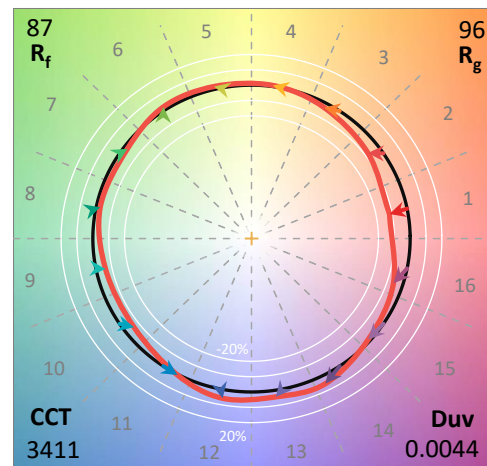
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-10
 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-835-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K): 3411
 CIE u' : 0.2360
 CIE v' : 0.5189
 Duv: 0.0044
 CIE x: 0.4154
 CIE y: 0.4059
 CIE z: 0.1787
 Peak Wavelength (nm): 601
 Dominant Wavelength (nm): 579
 Purity: 46.51914
 R_f: 86.6
 R_g: 95.9

CRI (Ra): 83.5
 R1: 81.1
 R2: 88.9
 R3: 97.2
 R4: 83.8
 R5: 81.7
 R6: 86.9
 R7: 86.1
 R8: 62.2
 R9: 6.3
 R10: 75.4
 R11: 84.1
 R12: 69.7
 R13: 82.8
 R14: 98.5
 R15: 72.6



Test Conditions

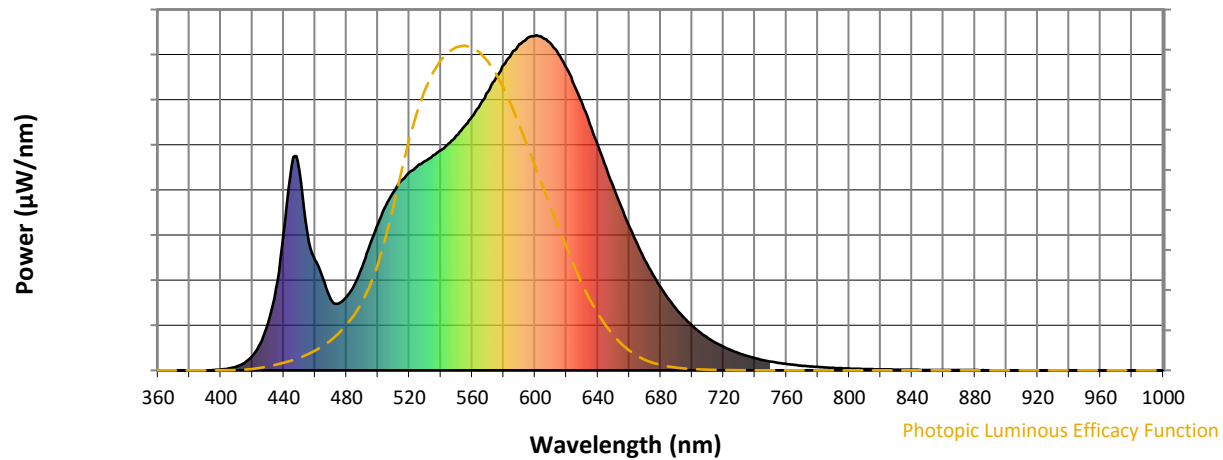
Stabilization Time: 35M
 Operation Time: 1H 35M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-10

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: SP1-2407-184-10

Photopic Flux vs. Wavelength

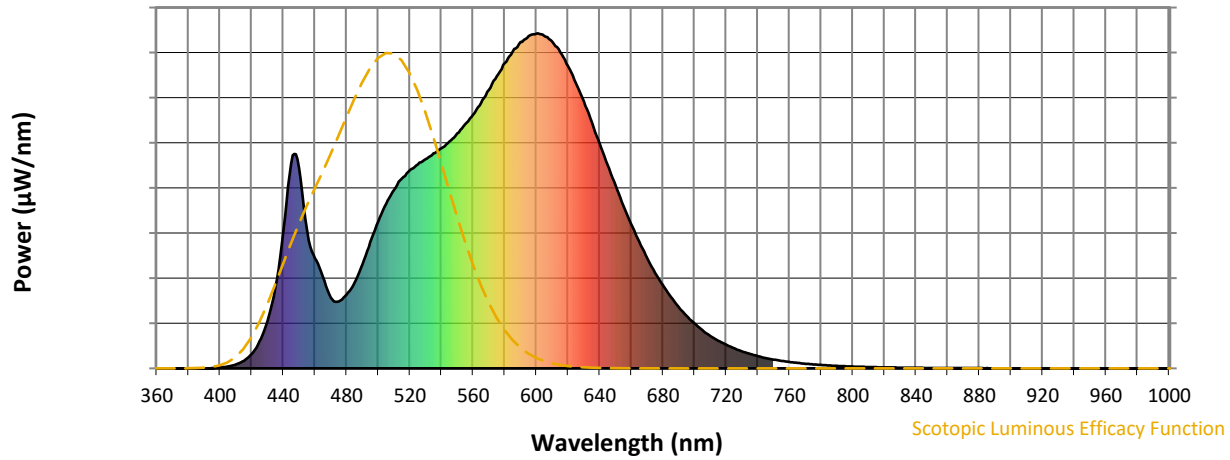


Photopic Lumens: NR

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

Scotopic Flux vs. Wavelength



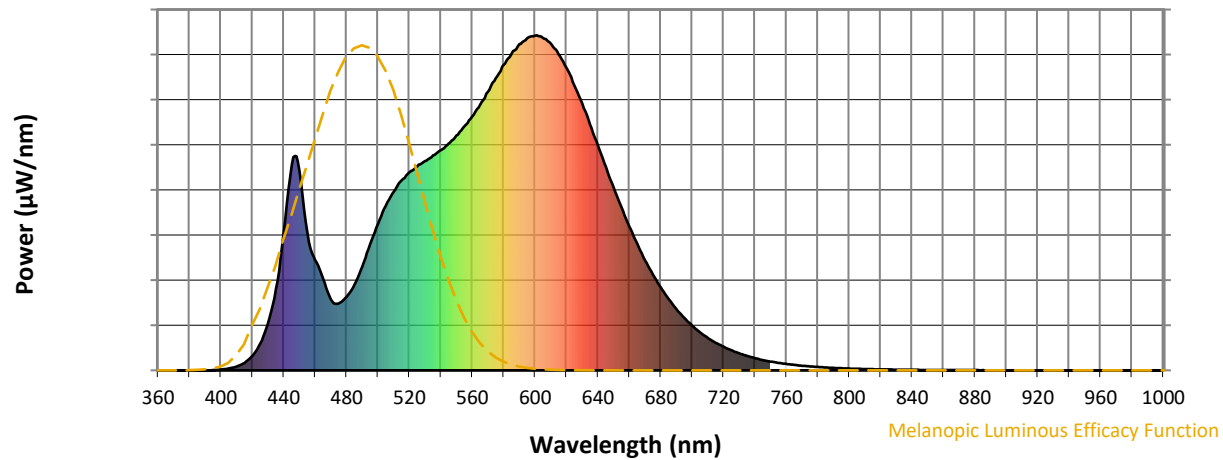
Scotopic Lumens: NR

S/P: 1.48

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.88

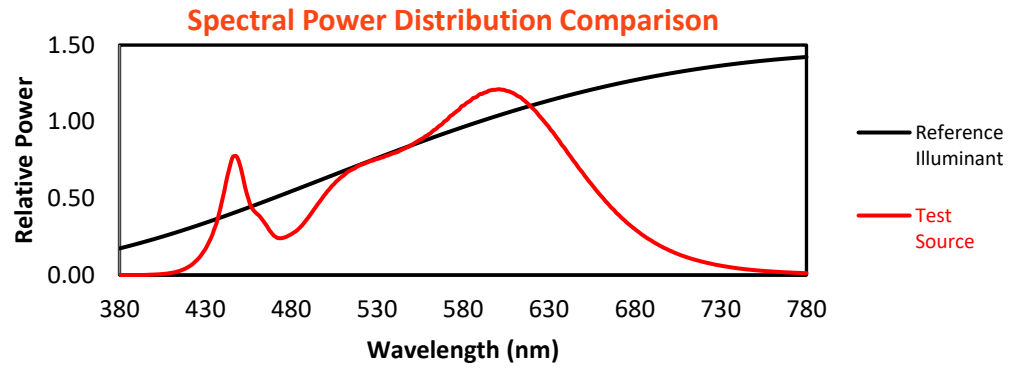
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

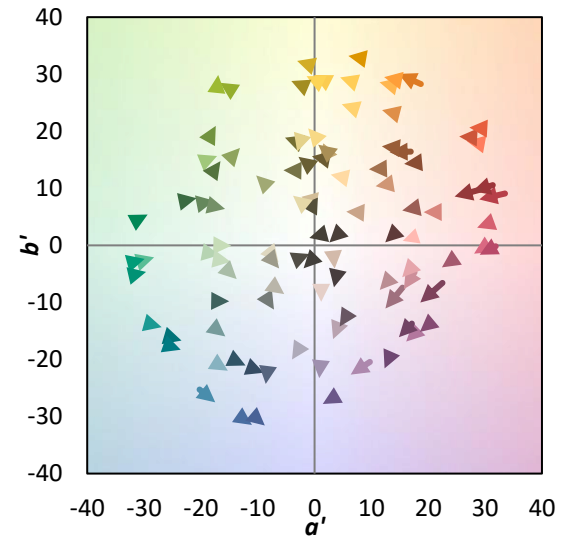
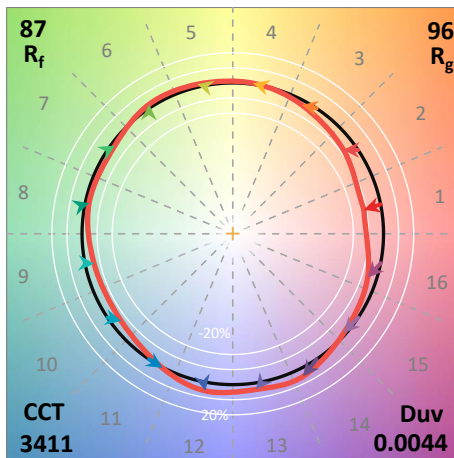
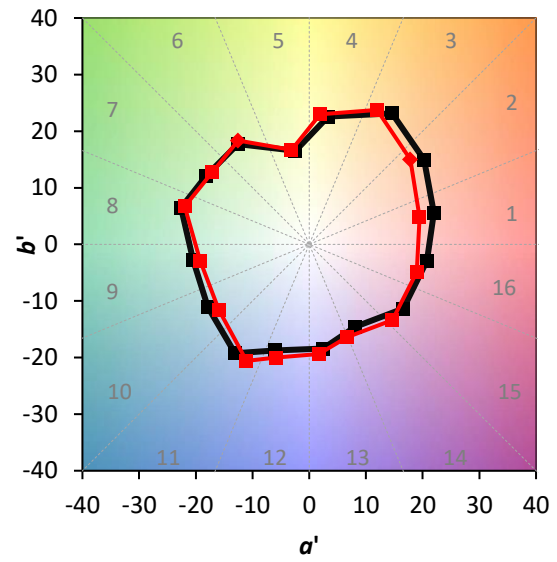
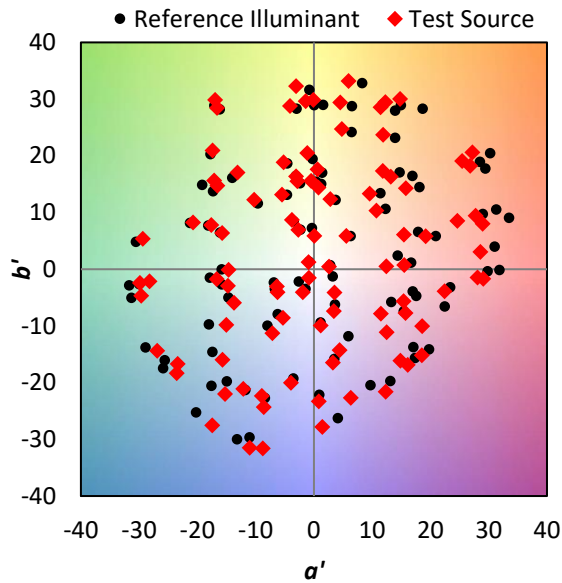
TM-30-18

Summary

$R_f = 86.6$
 $R_g = 95.9$
 $CIE R_a = 83.5$
 $R_9 = 6.3$

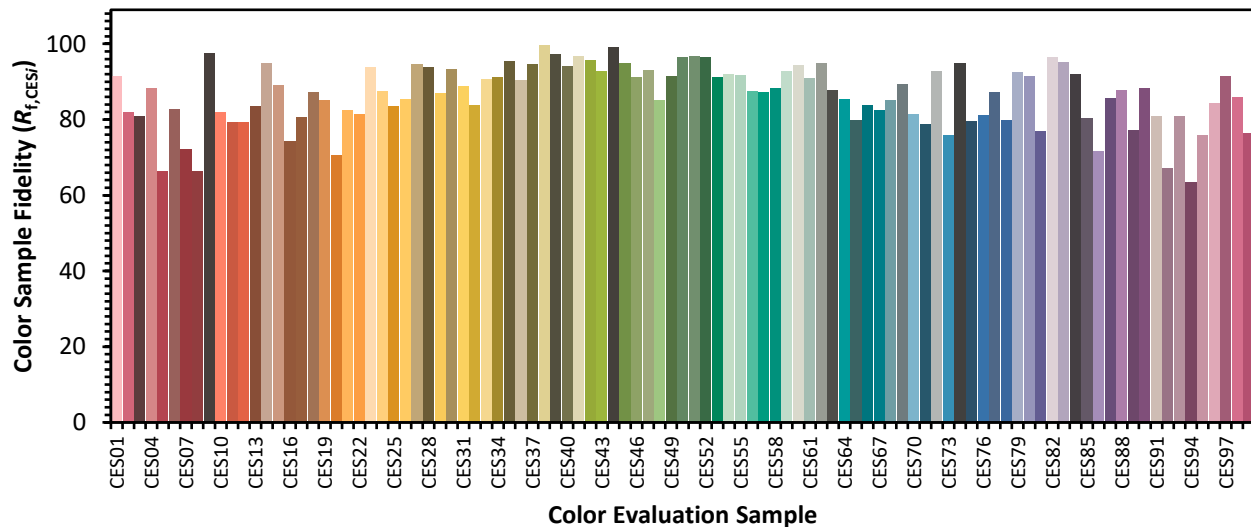


Color Vector Graphics

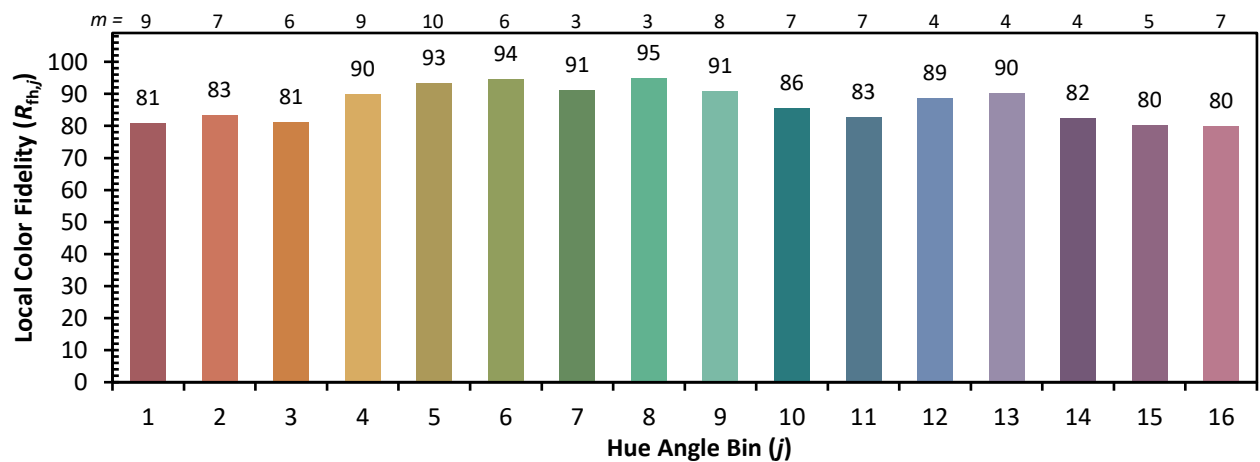
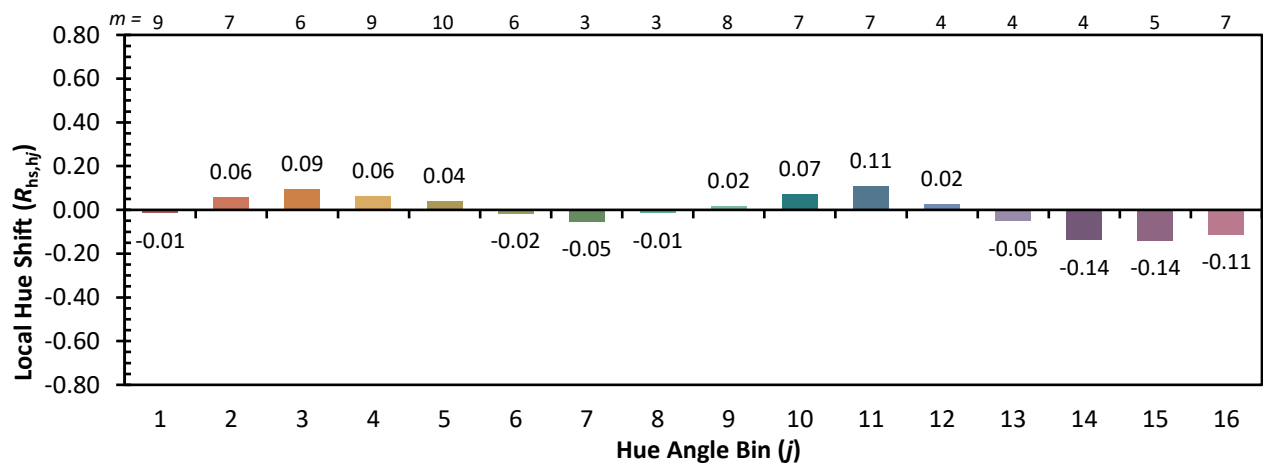
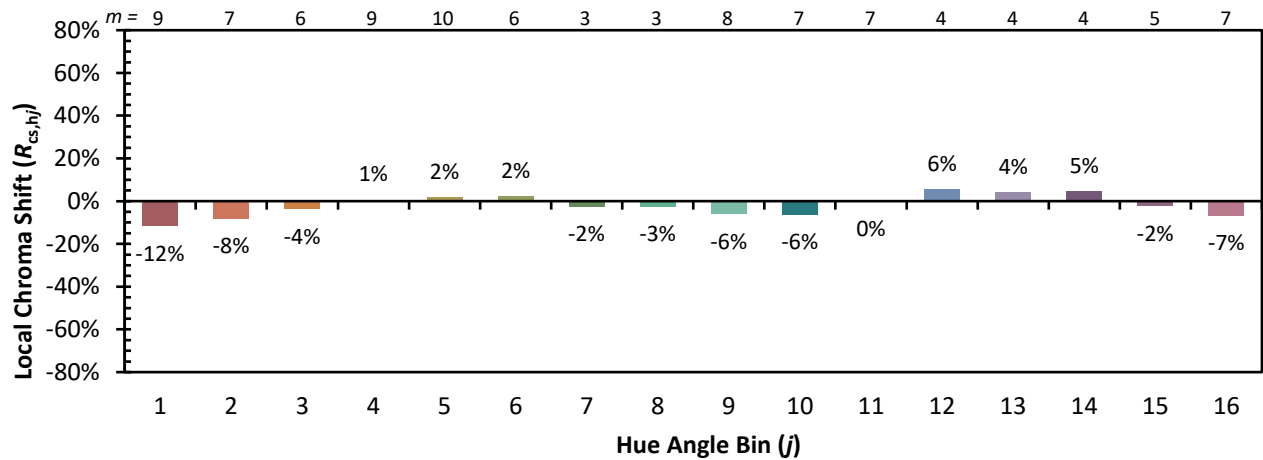


Individual Sample Fidelity Index ($R_{f,i}$)

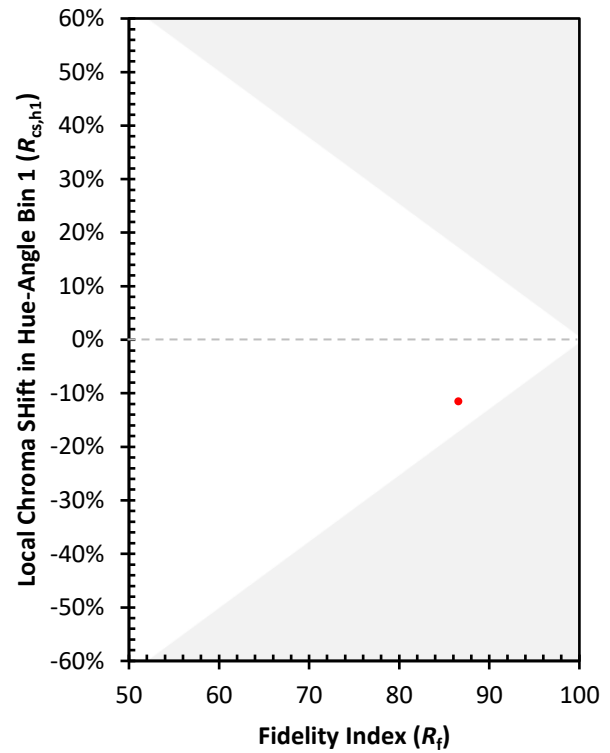
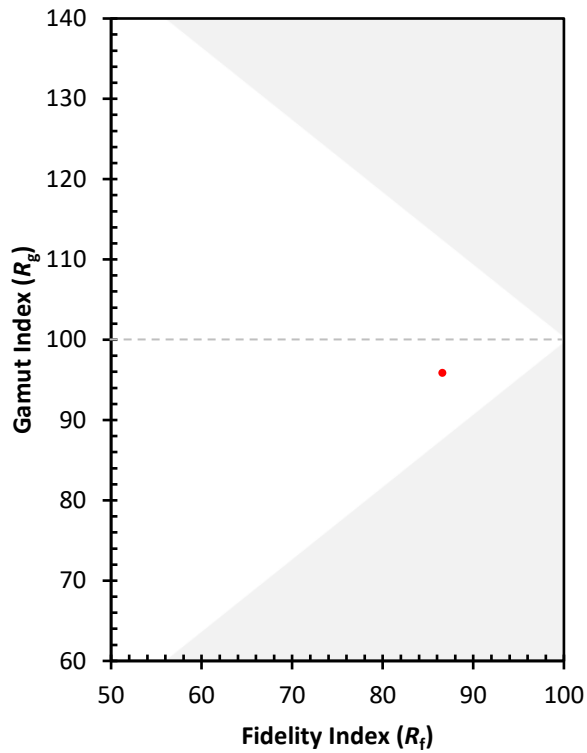
CES01 = 86	CES26 = 85	CES51 = 97	CES76 = 81
CES02 = 62	CES27 = 95	CES52 = 96	CES77 = 87
CES03 = 31	CES28 = 94	CES53 = 91	CES78 = 80
CES04 = 70	CES29 = 87	CES54 = 92	CES79 = 93
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 91
CES06 = 51	CES31 = 89	CES56 = 88	CES81 = 77
CES07 = 41	CES32 = 84	CES57 = 87	CES82 = 96
CES08 = 40	CES33 = 91	CES58 = 88	CES83 = 95
CES09 = 29	CES34 = 91	CES59 = 93	CES84 = 92
CES10 = 75	CES35 = 95	CES60 = 94	CES85 = 80
CES11 = 58	CES36 = 90	CES61 = 91	CES86 = 72
CES12 = 64	CES37 = 95	CES62 = 95	CES87 = 86
CES13 = 43	CES38 = 100	CES63 = 88	CES88 = 88
CES14 = 74	CES39 = 97	CES64 = 85	CES89 = 77
CES15 = 71	CES40 = 94	CES65 = 80	CES90 = 88
CES16 = 47	CES41 = 97	CES66 = 84	CES91 = 81
CES17 = 49	CES42 = 96	CES67 = 82	CES92 = 67
CES18 = 56	CES43 = 93	CES68 = 85	CES93 = 81
CES19 = 72	CES44 = 99	CES69 = 89	CES94 = 63
CES20 = 66	CES45 = 95	CES70 = 81	CES95 = 76
CES21 = 86	CES46 = 91	CES71 = 79	CES96 = 84
CES22 = 78	CES47 = 93	CES72 = 93	CES97 = 92
CES23 = 91	CES48 = 85	CES73 = 76	CES98 = 86
CES24 = 90	CES49 = 92	CES74 = 95	CES99 = 77
CES25 = 72	CES50 = 96	CES75 = 80	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)