

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: P1068093

Luminaire Tested: **NAV-SA3A-835-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1068093
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA3A-835-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 3xLight Square PACKAGE
80CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8125 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 82
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



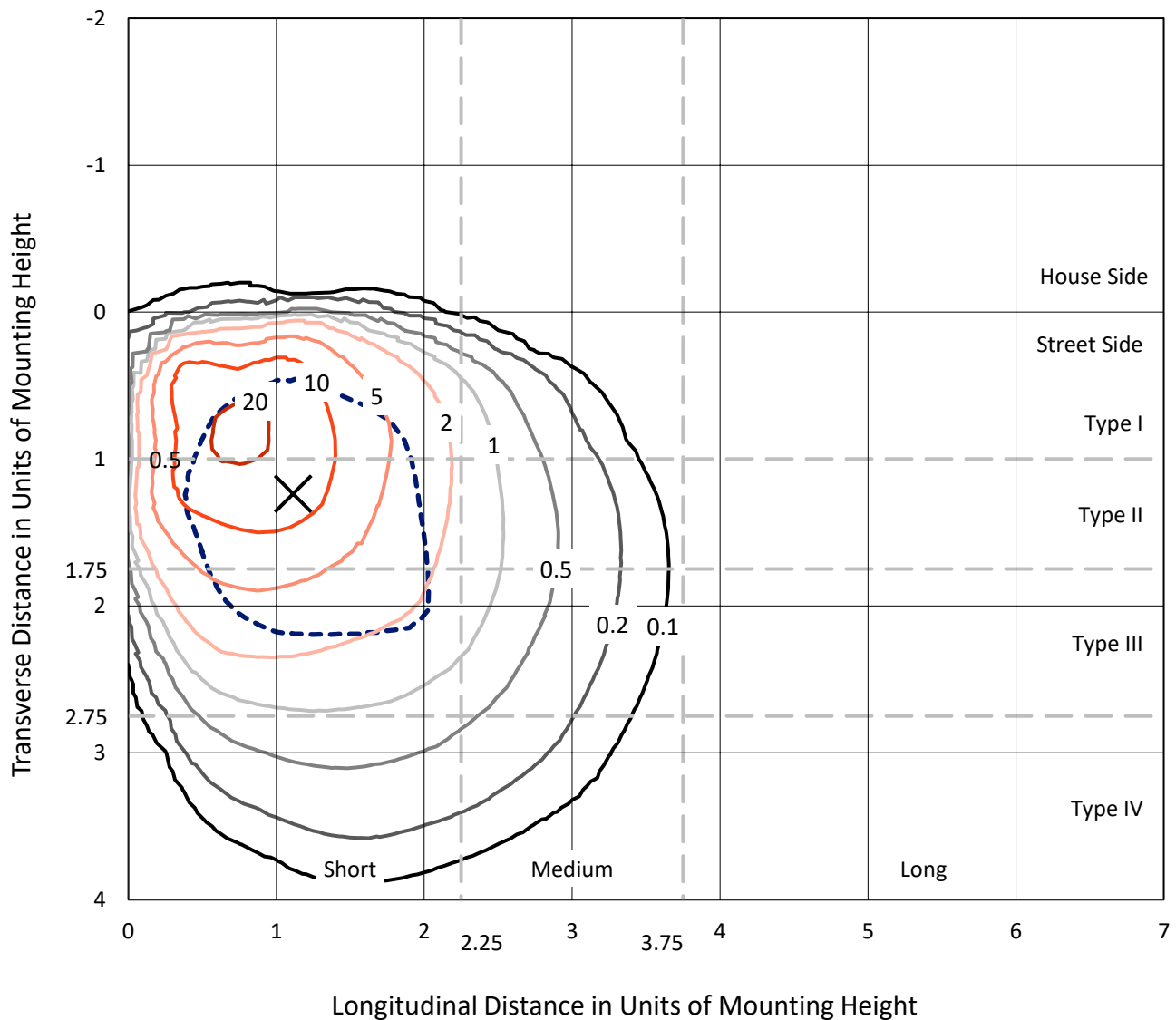
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

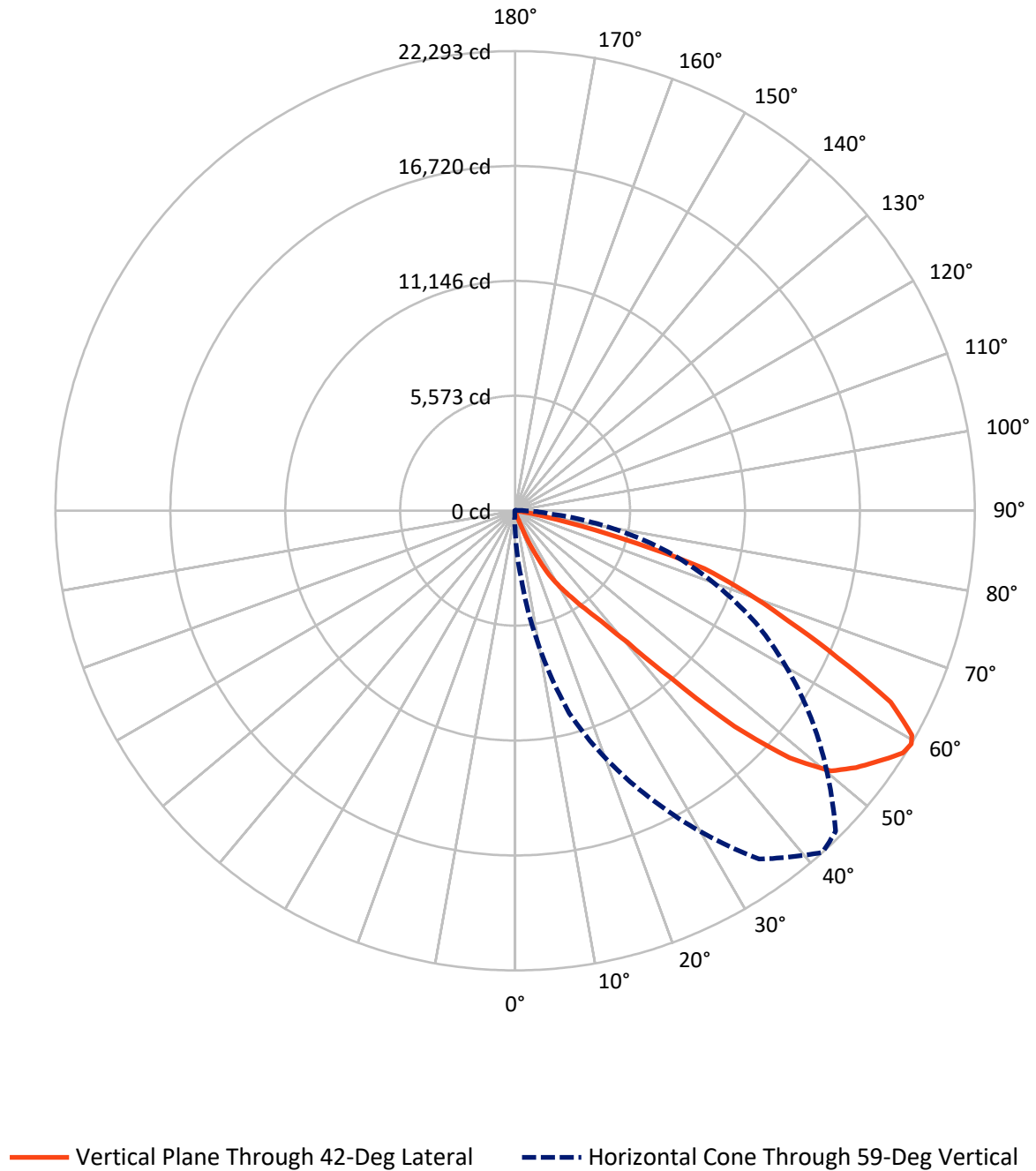


Based on 15 foot mounting height. Maximum calculated value = 24.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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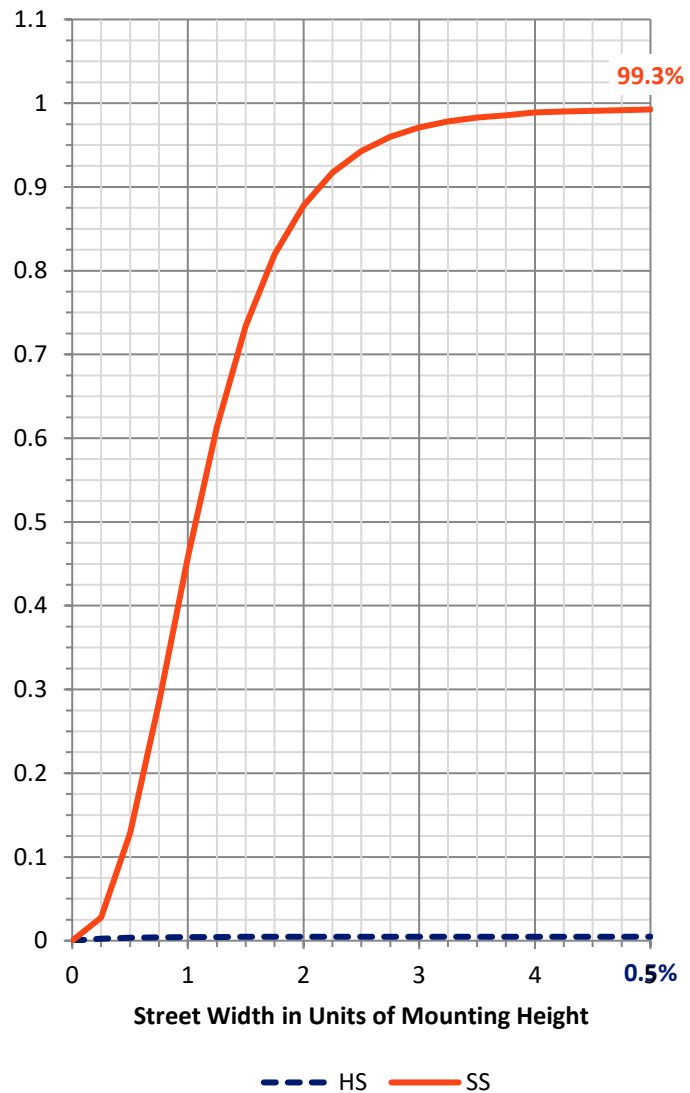
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	39.1	0.0	39.1
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	8085.8	0.0	8085.8
	% Fixture	99.5	0.0	99.5
Total	Lumens	8125.0	0.0	8125.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.4	0.0
10°-20°	11.8	0.1
20°-30°	151.6	1.9
30°-40°	511.0	6.3
40°-50°	1543.3	19.0
50°-60°	2724.3	33.5
60°-70°	2398.8	29.5
70°-80°	763.5	9.4
80°-90°	18.3	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°	8125.0	100.0
0°-180°	8125.0	100.0



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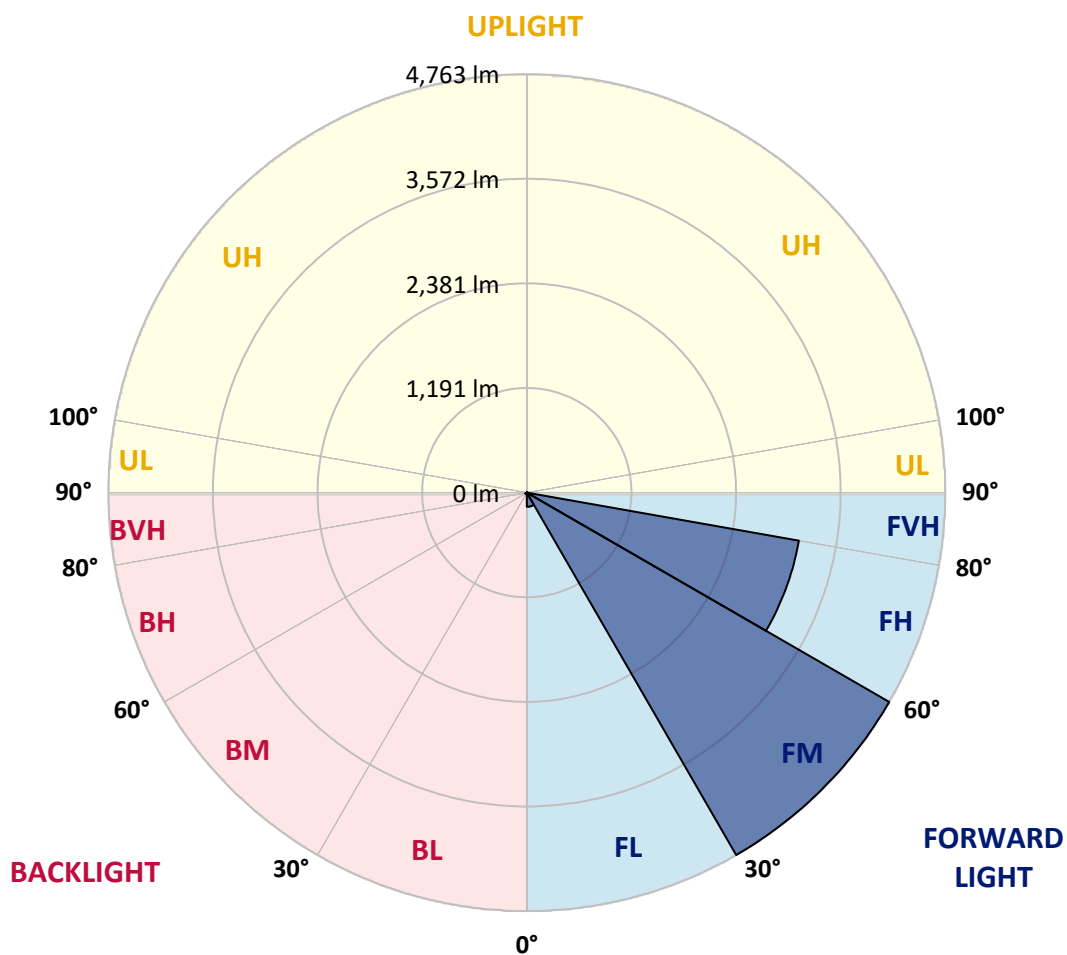
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	161.4	2.0			
FM	(30°-60°)	4762.6	58.6			
FH	(60°-80°)	3144.4	38.7			G2/5000
FVH	(80°-90°)	17.4	0.2			G1/100
BL	(0°-30°)	4.4	0.1	B0/110		
BM	(30°-60°)	16.0	0.2	B0/220		
BH	(60°-80°)	17.9	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°	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9
2.5°	35.7	35.7	33.1	30.6	28.0	25.5	25.5	25.5	22.9	22.9	20.4
5°	40.8	40.8	38.2	35.7	35.7	33.1	33.1	30.6	28.0	28.0	25.5
7.5°	43.3	43.3	43.3	43.3	40.8	40.8	40.8	38.2	35.7	33.1	30.6
10°	45.9	48.4	50.9	50.9	50.9	50.9	50.9	48.4	43.3	40.8	35.7
12.5°	50.9	53.5	58.6	63.7	63.7	66.2	63.7	61.1	56.0	48.4	40.8
15°	56.0	61.1	68.8	79.0	89.2	91.7	91.7	84.1	73.9	58.6	48.4
17.5°	63.7	71.3	91.7	124.8	160.5	188.5	188.5	168.1	117.2	76.4	56.0
20°	68.8	84.1	147.8	300.6	458.5	575.7	552.8	489.1	262.4	119.7	61.1
22.5°	76.4	107.0	313.3	789.7	1222.8	1436.8	1385.8	1052.1	588.5	214.0	73.9
25°	86.6	155.4	621.6	1480.1	2272.3	2504.2	2471.0	1964.1	1072.5	359.2	94.3
27.5°	107.0	229.3	996.1	2244.3	3352.5	3551.2	3538.4	2876.1	1714.4	578.3	122.3
30°	135.0	333.7	1477.5	3049.3	4068.3	4269.5	4205.9	3543.5	2313.1	884.0	157.9
32.5°	168.1	466.2	1913.1	3642.9	4728.1	4993.0	4916.6	4124.3	2794.6	1143.8	234.4
35°	219.1	596.1	2343.7	4167.6	5489.8	5826.0	5698.7	4723.0	3209.8	1436.8	282.8
37.5°	244.6	672.5	2738.5	4738.3	6345.7	6804.3	6707.5	5479.6	3632.7	1811.2	346.5
40°	247.1	764.2	3148.7	5482.1	7555.8	8373.5	8200.3	6778.8	4419.8	2292.7	445.8
42.5°	254.7	901.8	3681.1	6750.8	9932.5	11106.9	10910.8	9168.3	6205.6	3258.2	631.8
45°	290.4	1161.6	4766.3	9122.5	13195.8	14917.9	14691.2	12497.8	8699.6	5074.5	1077.6
47.5°	415.2	1747.6	6669.3	11682.7	16533.0	17906.1	17850.1	15121.7	10959.2	6936.7	1826.5
50°	667.4	2682.5	8834.6	13835.3	18657.6	19837.1	19697.0	16217.1	12248.2	8207.9	2341.1
52.5°	891.6	3576.6	10194.9	14627.5	19291.9	20698.1	20527.4	16617.1	12587.0	8582.4	2483.8
55°	947.7	3900.2	10600.0	14872.1	19712.2	21426.7	21179.6	16884.6	12630.3	8314.9	2246.9
57.5°	919.6	3594.5	10337.6	15111.5	20298.2	22175.6	21847.0	17406.8	12775.5	7861.5	1869.8
59°	871.2	3217.4	10174.6	15302.6	20621.7	22292.8	21984.6	17521.4	12872.3	7655.1	1640.6
60°	815.2	2962.7	10047.2	15427.4	20601.3	22109.4	21791.0	17467.9	12910.5	7476.8	1531.0
62.5°	629.2	2364.0	9863.8	15338.3	19314.8	20435.7	20254.9	16158.5	12350.1	6906.2	1207.5
65°	489.1	1808.7	9191.2	13679.9	16436.2	17190.3	17134.2	13682.4	10393.6	5953.4	871.2
67.5°	387.2	1319.6	7772.3	11078.9	13223.9	14296.3	14255.6	11106.9	7889.5	4549.8	626.7
70°	315.9	940.0	5329.3	8353.1	10577.1	11927.2	11868.6	8939.0	5846.4	2886.3	456.0
72.5°	267.5	601.2	3232.7	6297.3	8826.9	9598.8	9428.1	7211.9	4251.7	1571.8	361.7
75°	226.7	369.4	1602.4	3925.6	5258.0	5252.9	5082.2	3818.6	2282.5	769.3	287.9
77.5°	183.4	259.8	629.2	1077.6	1658.4	2053.3	2020.1	1352.7	682.7	224.2	178.3
80°	119.7	122.3	168.1	295.5	456.0	504.4	573.2	412.7	198.7	107.0	73.9
82.5°	53.5	58.6	76.4	96.8	96.8	89.2	79.0	58.6	43.3	35.7	17.8
85°	12.7	17.8	12.7	15.3	12.7	10.2	10.2	5.1	0.0	0.0	0.0
87.5°	2.5	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°	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9
2.5°	20.4	20.4	20.4	17.8	17.8	17.8	15.3	15.3	15.3	12.7	12.7
5°	25.5	22.9	20.4	20.4	17.8	17.8	15.3	12.7	12.7	12.7	10.2
7.5°	28.0	25.5	22.9	20.4	17.8	15.3	15.3	12.7	10.2	10.2	10.2
10°	33.1	30.6	25.5	20.4	17.8	15.3	12.7	12.7	10.2	7.6	7.6
12.5°	38.2	33.1	28.0	22.9	17.8	15.3	12.7	12.7	10.2	7.6	5.1
15°	43.3	38.2	30.6	22.9	17.8	15.3	12.7	12.7	7.6	5.1	2.5
17.5°	48.4	40.8	30.6	25.5	17.8	15.3	12.7	10.2	5.1	2.5	0.0
20°	50.9	43.3	33.1	25.5	17.8	15.3	12.7	7.6	2.5	0.0	0.0
22.5°	56.0	48.4	35.7	25.5	17.8	12.7	7.6	2.5	0.0	0.0	0.0
25°	66.2	50.9	35.7	25.5	17.8	12.7	5.1	0.0	0.0	0.0	0.0
27.5°	73.9	56.0	35.7	25.5	17.8	10.2	2.5	0.0	0.0	0.0	0.0
30°	86.6	61.1	38.2	25.5	17.8	7.6	2.5	0.0	0.0	0.0	0.0
32.5°	107.0	66.2	38.2	25.5	15.3	7.6	0.0	0.0	0.0	0.0	0.0
35°	129.9	76.4	38.2	25.5	15.3	7.6	0.0	0.0	0.0	0.0	0.0
37.5°	132.5	81.5	38.2	25.5	15.3	5.1	0.0	0.0	0.0	0.0	0.0
40°	137.6	76.4	40.8	25.5	15.3	5.1	0.0	0.0	0.0	0.0	0.0
42.5°	157.9	71.3	43.3	25.5	15.3	5.1	0.0	0.0	0.0	0.0	0.0
45°	234.4	73.9	43.3	28.0	15.3	7.6	0.0	0.0	0.0	0.0	0.0
47.5°	407.6	76.4	40.8	28.0	15.3	7.6	0.0	0.0	0.0	0.0	0.0
50°	522.2	89.2	40.8	30.6	17.8	5.1	0.0	0.0	0.0	0.0	0.0
52.5°	555.3	104.4	40.8	33.1	22.9	2.5	0.0	0.0	0.0	0.0	0.0
55°	540.1	122.3	43.3	35.7	28.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	499.3	132.5	45.9	38.2	30.6	0.0	0.0	0.0	0.0	0.0	0.0
59°	456.0	140.1	53.5	40.8	30.6	0.0	0.0	0.0	0.0	0.0	0.0
60°	420.3	147.8	56.0	43.3	30.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	338.8	157.9	61.1	50.9	25.5	0.0	0.0	0.0	0.0	0.0	0.0
65°	295.5	165.6	63.7	56.0	22.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	270.0	170.7	68.8	58.6	20.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	249.7	168.1	73.9	56.0	17.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	226.7	160.5	89.2	50.9	15.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	203.8	145.2	96.8	45.9	10.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	147.8	122.3	89.2	40.8	5.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	63.7	66.2	63.7	30.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	12.7	15.3	12.7	7.6	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°	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9
2.5°	12.7	12.7	12.7	12.7	15.3	15.3	20.4	25.5	30.6	33.1	33.1
5°	10.2	10.2	10.2	10.2	10.2	12.7	15.3	20.4	28.0	30.6	30.6
7.5°	7.6	7.6	7.6	7.6	7.6	7.6	12.7	17.8	25.5	28.0	30.6
10°	7.6	5.1	5.1	2.5	2.5	5.1	7.6	15.3	22.9	25.5	28.0
12.5°	5.1	2.5	2.5	0.0	0.0	2.5	5.1	12.7	20.4	22.9	25.5
15°	2.5	0.0	0.0	0.0	0.0	0.0	2.5	10.2	17.8	20.4	25.5
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	15.3	20.4	22.9
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	12.7	17.8	20.4
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	10.2	15.3	17.8
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	10.2	12.7
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	7.6	10.2
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	7.6	10.2
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.1	7.6
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.1	7.6
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.1	5.1
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.1
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.1
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.1
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.1
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.1
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5
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°	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9
2.5°	35.7	35.7	33.1	30.6	30.6	30.6	33.1	35.7	35.7	35.7
5°	33.1	33.1	30.6	30.6	30.6	30.6	33.1	38.2	40.8	40.8
7.5°	33.1	33.1	30.6	30.6	30.6	30.6	33.1	38.2	40.8	43.3
10°	30.6	30.6	30.6	30.6	28.0	30.6	33.1	38.2	45.9	45.9
12.5°	30.6	30.6	30.6	30.6	28.0	30.6	35.7	40.8	48.4	50.9
15°	30.6	30.6	30.6	28.0	28.0	30.6	35.7	43.3	50.9	56.0
17.5°	28.0	30.6	30.6	28.0	28.0	30.6	35.7	43.3	56.0	63.7
20°	25.5	28.0	30.6	28.0	28.0	28.0	35.7	43.3	58.6	68.8
22.5°	22.9	25.5	28.0	28.0	25.5	28.0	35.7	45.9	63.7	76.4
25°	20.4	22.9	22.9	25.5	25.5	28.0	35.7	45.9	66.2	86.6
27.5°	15.3	17.8	20.4	22.9	22.9	28.0	35.7	48.4	71.3	107.0
30°	12.7	15.3	17.8	20.4	22.9	28.0	35.7	48.4	76.4	135.0
32.5°	12.7	15.3	17.8	20.4	22.9	25.5	35.7	50.9	84.1	168.1
35°	10.2	12.7	15.3	20.4	20.4	25.5	35.7	50.9	91.7	219.1
37.5°	10.2	12.7	15.3	20.4	20.4	25.5	35.7	50.9	112.1	244.6
40°	7.6	10.2	12.7	20.4	20.4	25.5	38.2	53.5	114.6	247.1
42.5°	7.6	10.2	12.7	17.8	20.4	25.5	38.2	53.5	107.0	254.7
45°	7.6	10.2	12.7	20.4	22.9	28.0	38.2	56.0	104.4	290.4
47.5°	7.6	10.2	12.7	20.4	25.5	28.0	38.2	56.0	107.0	415.2
50°	7.6	10.2	12.7	20.4	28.0	28.0	38.2	56.0	117.2	667.4
52.5°	5.1	7.6	10.2	17.8	22.9	30.6	40.8	53.5	124.8	891.6
55°	5.1	5.1	7.6	15.3	20.4	33.1	43.3	53.5	145.2	947.7
57.5°	5.1	5.1	7.6	12.7	17.8	35.7	45.9	53.5	168.1	919.6
59°	5.1	5.1	5.1	12.7	15.3	35.7	45.9	56.0	170.7	871.2
60°	5.1	5.1	5.1	10.2	15.3	35.7	48.4	58.6	173.2	815.2
62.5°	2.5	2.5	2.5	10.2	12.7	35.7	53.5	71.3	178.3	629.2
65°	5.1	5.1	2.5	7.6	12.7	30.6	61.1	76.4	180.9	489.1
67.5°	5.1	5.1	5.1	10.2	12.7	30.6	63.7	79.0	180.9	387.2
70°	5.1	5.1	5.1	10.2	15.3	30.6	63.7	81.5	178.3	315.9
72.5°	5.1	5.1	5.1	10.2	15.3	28.0	58.6	84.1	170.7	267.5
75°	5.1	5.1	5.1	7.6	12.7	25.5	56.0	91.7	155.4	226.7
77.5°	5.1	5.1	5.1	5.1	10.2	20.4	50.9	101.9	137.6	183.4
80°	7.6	5.1	5.1	5.1	7.6	17.8	48.4	99.4	114.6	119.7
82.5°	7.6	5.1	5.1	2.5	5.1	12.7	38.2	76.4	58.6	53.5
85°	5.1	5.1	5.1	2.5	2.5	7.6	17.8	22.9	17.8	12.7
87.5°	5.1	5.1	5.1	2.5	2.5	2.5	2.5	2.5	2.5	2.5
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

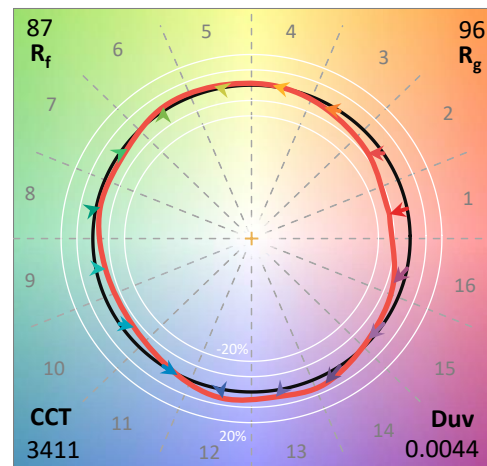
Test Information

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

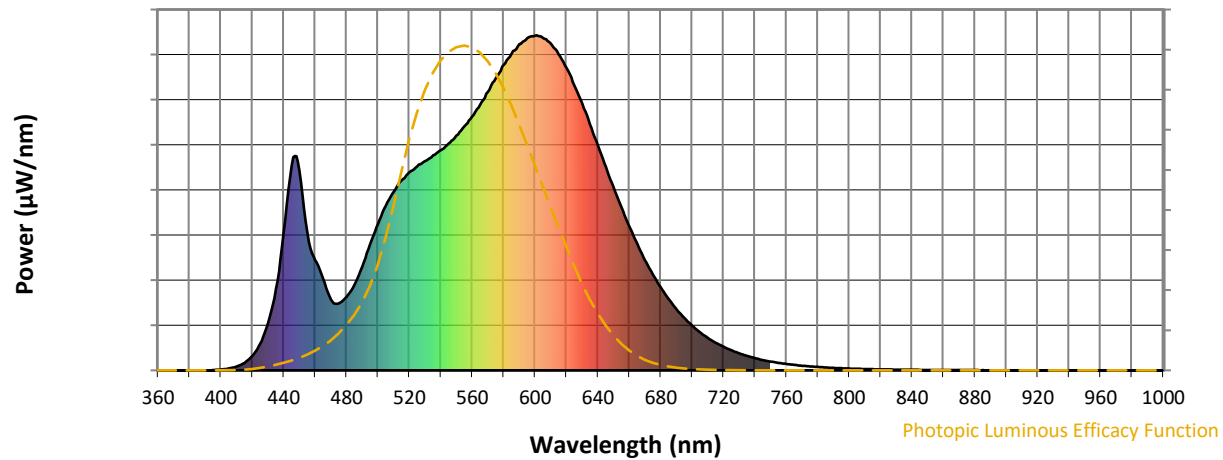
Stabilization Time: 35M
 Operation Time: 1H 35M
 Sphere Temperature (°C): 25.2

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

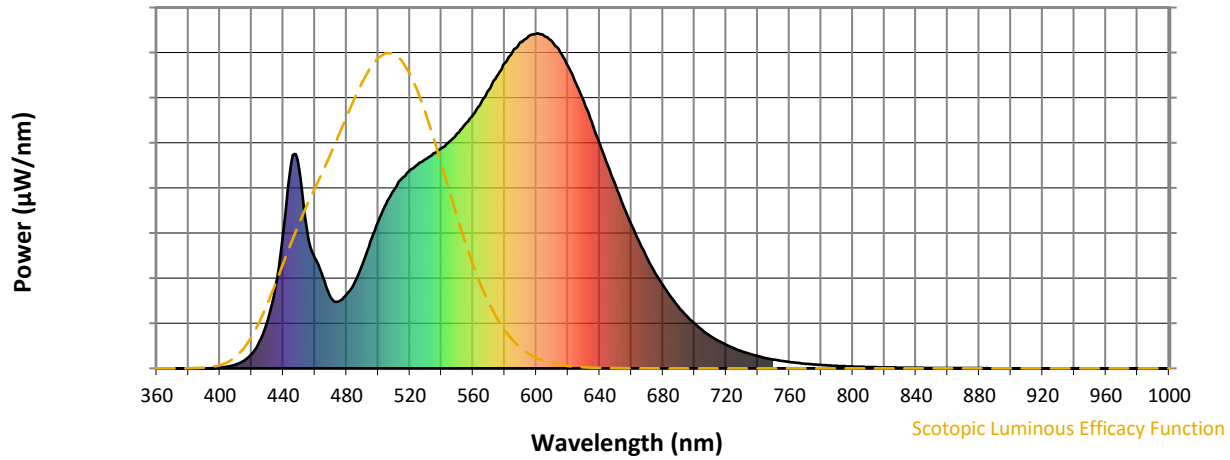


Photopic Lumens: NR

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

Scotopic Flux vs. Wavelength



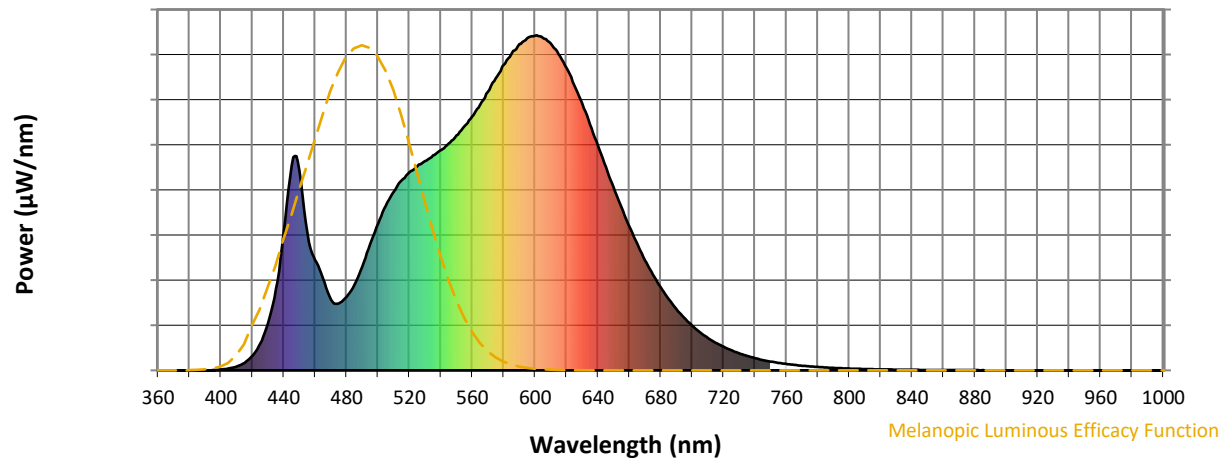
Scotopic Lumens: NR

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

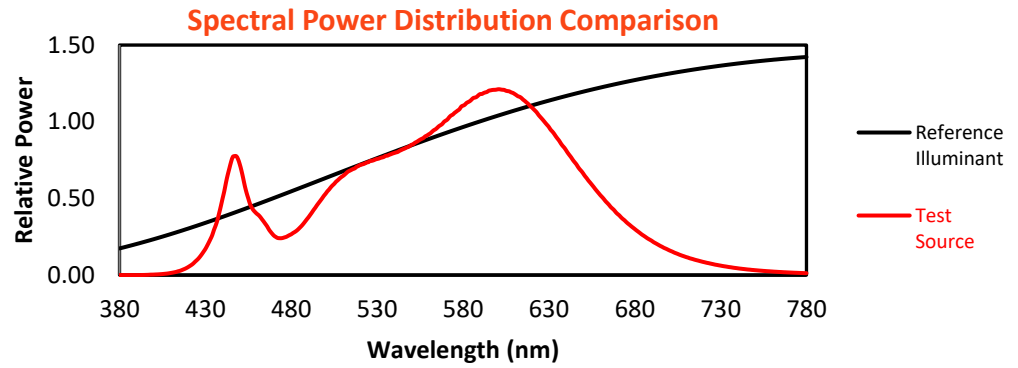
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	311	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

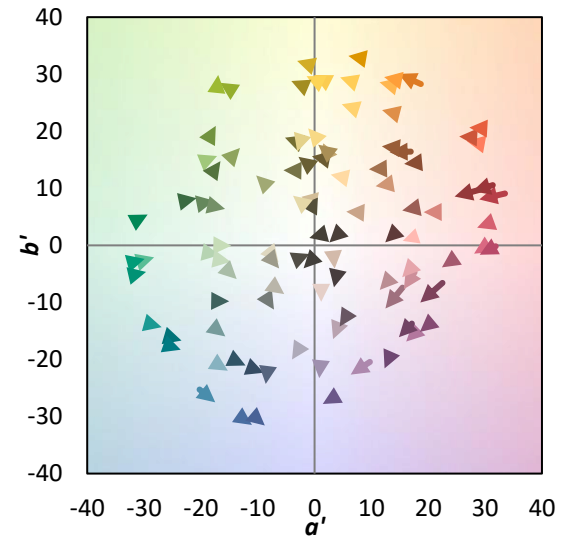
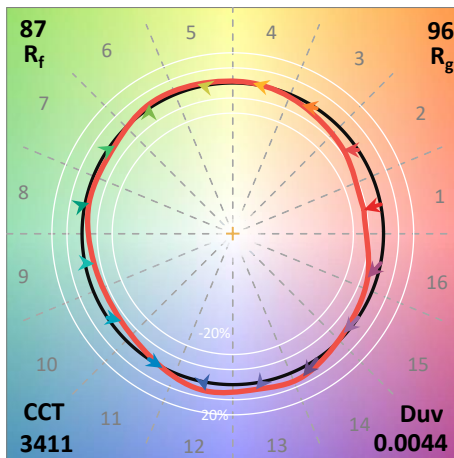
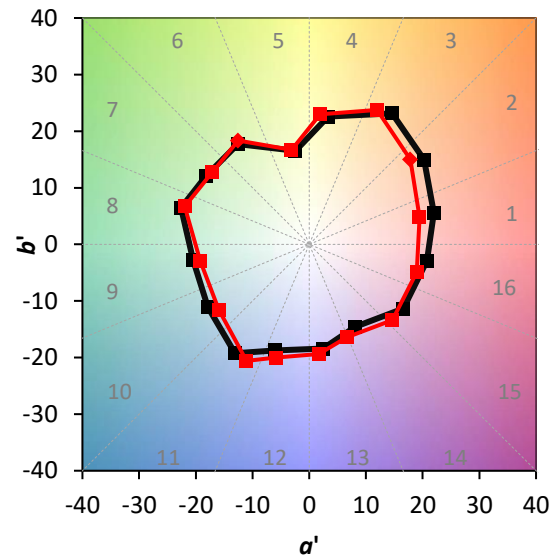
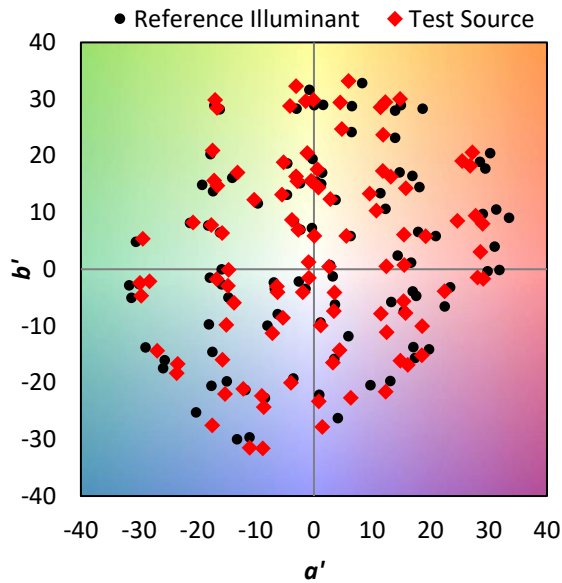
TM-30-18

Summary

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

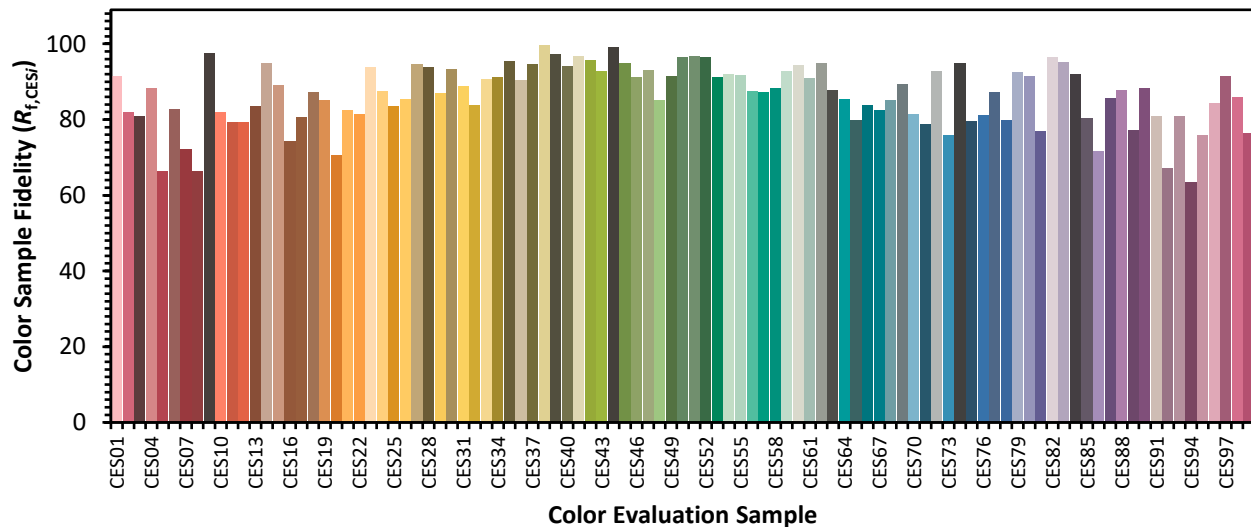


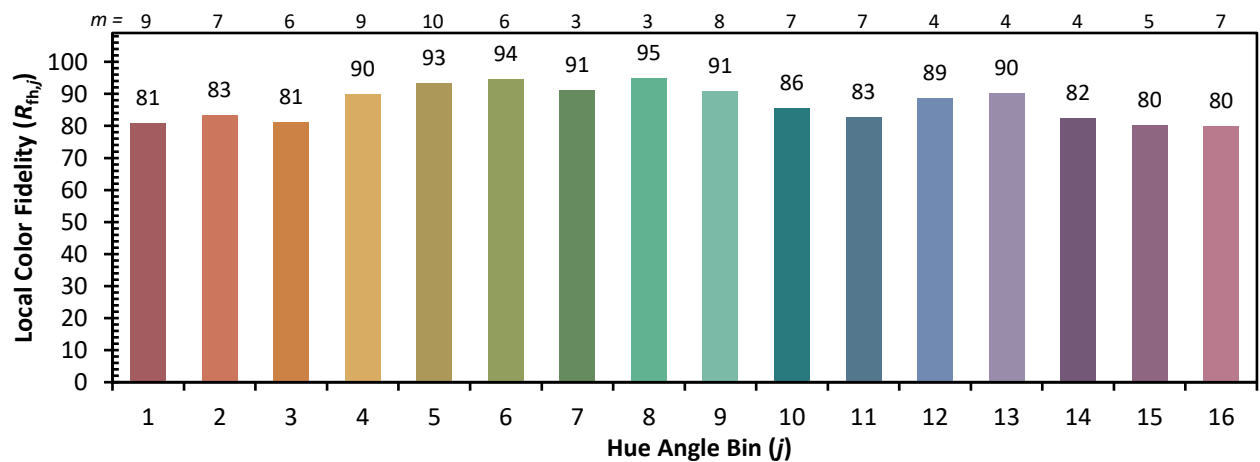
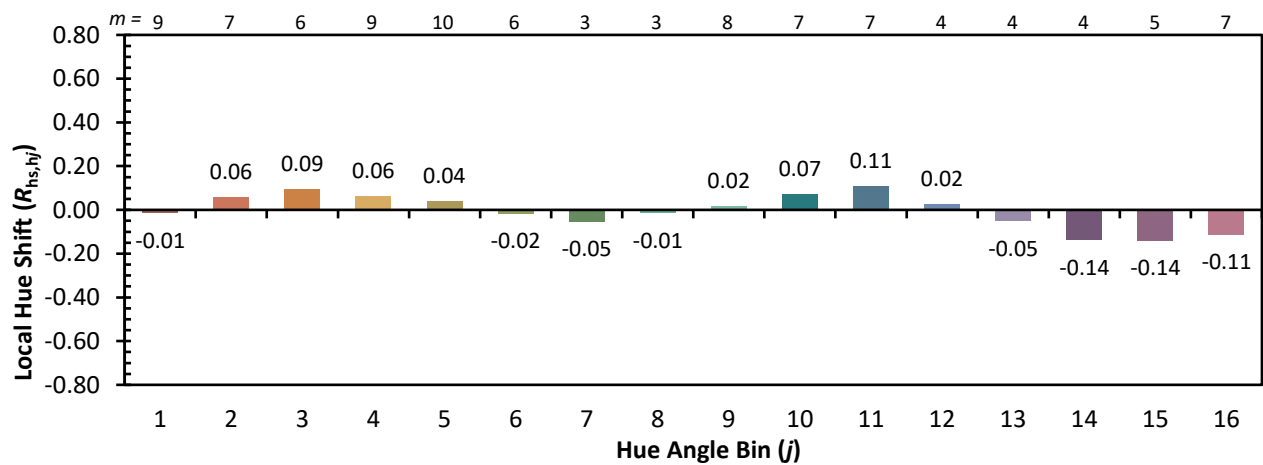
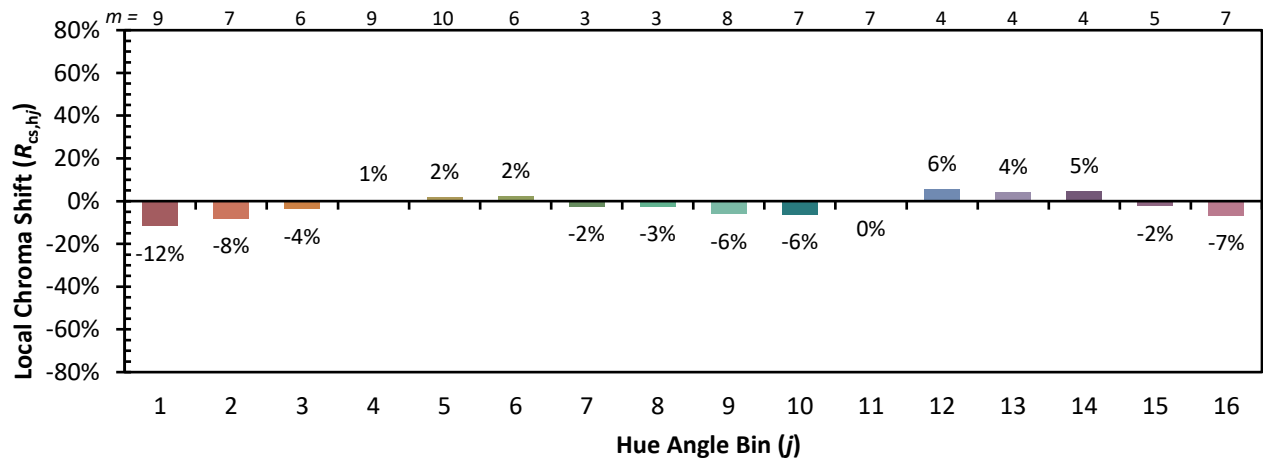
Color Vector Graphics



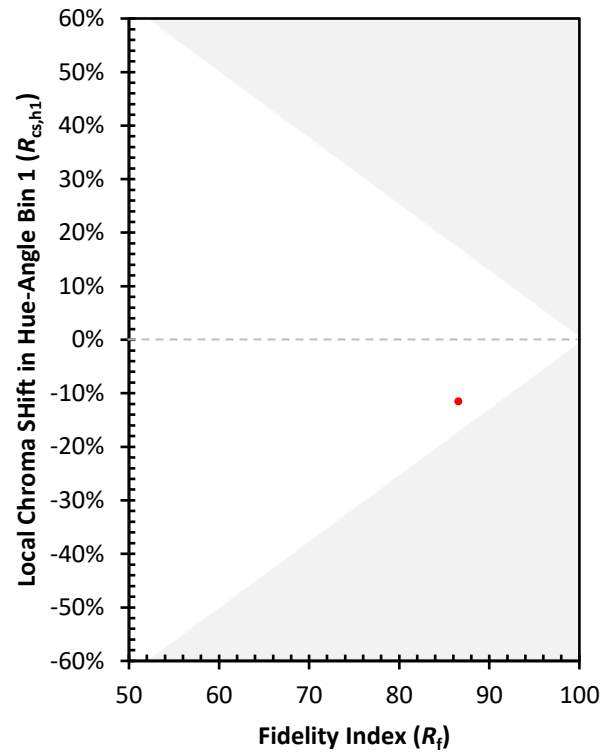
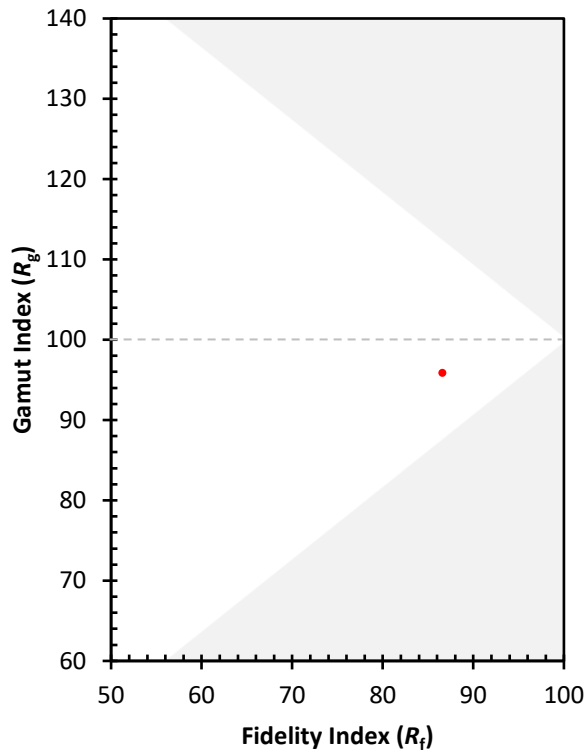
Individual Sample Fidelity Index ($R_{f,i}$)

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)