

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: P1068087

Luminaire Tested: **NAV-SA1C-835-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1068087
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA1C-835-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 1xLight Square PACKAGE
80CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (14) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4351.6 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 50.1
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



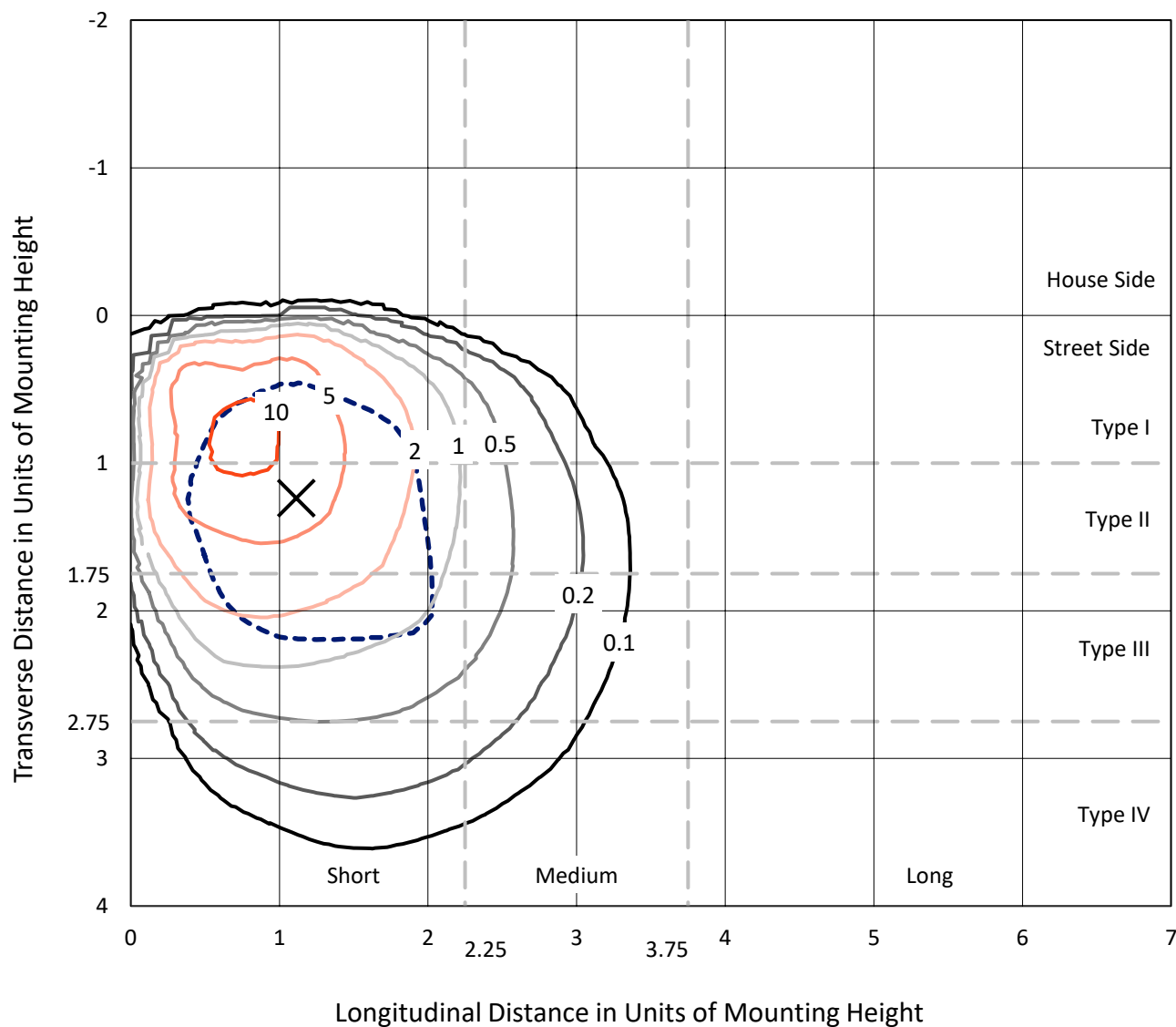
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

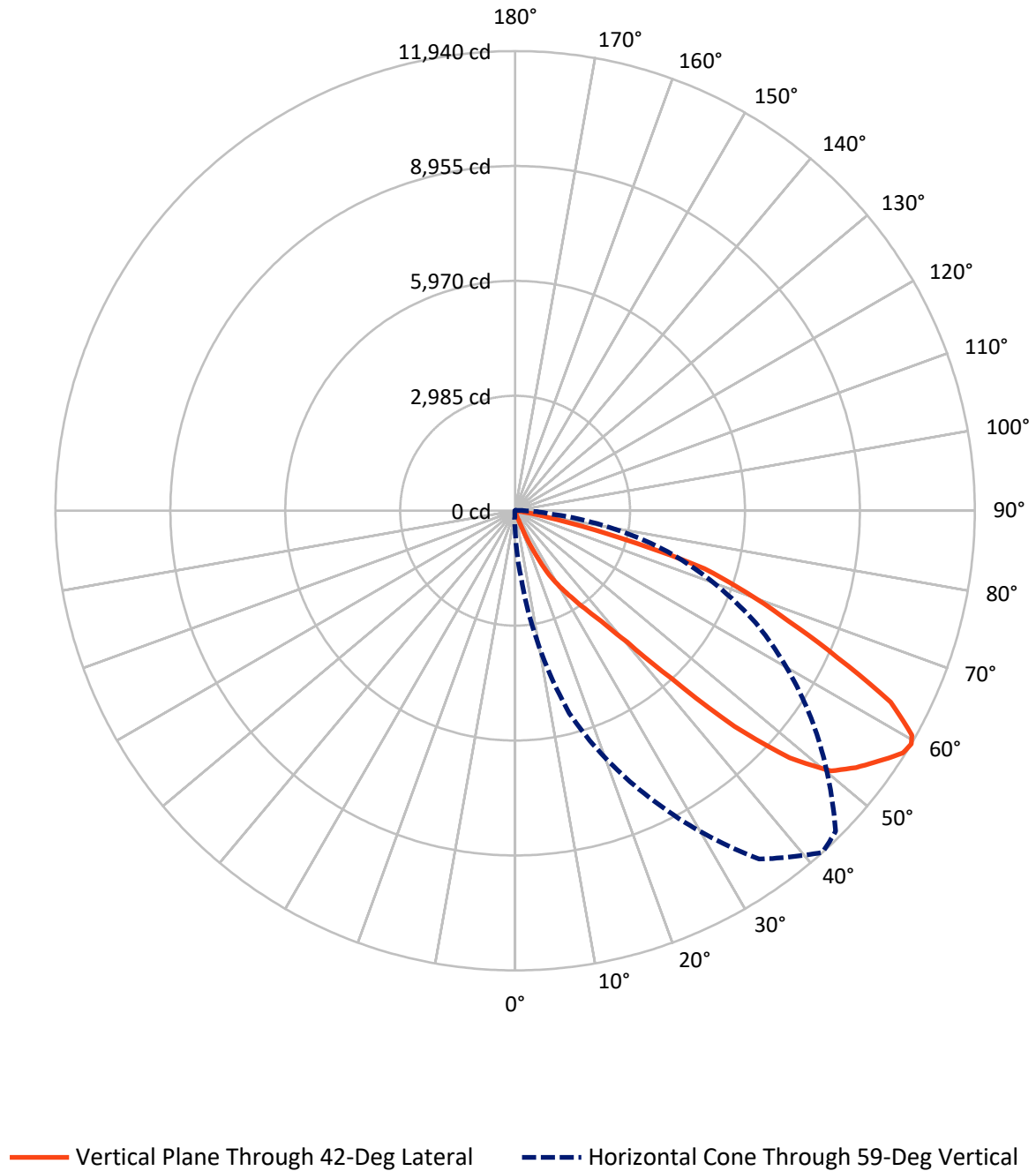


Based on 15 foot mounting height. Maximum calculated value = 12.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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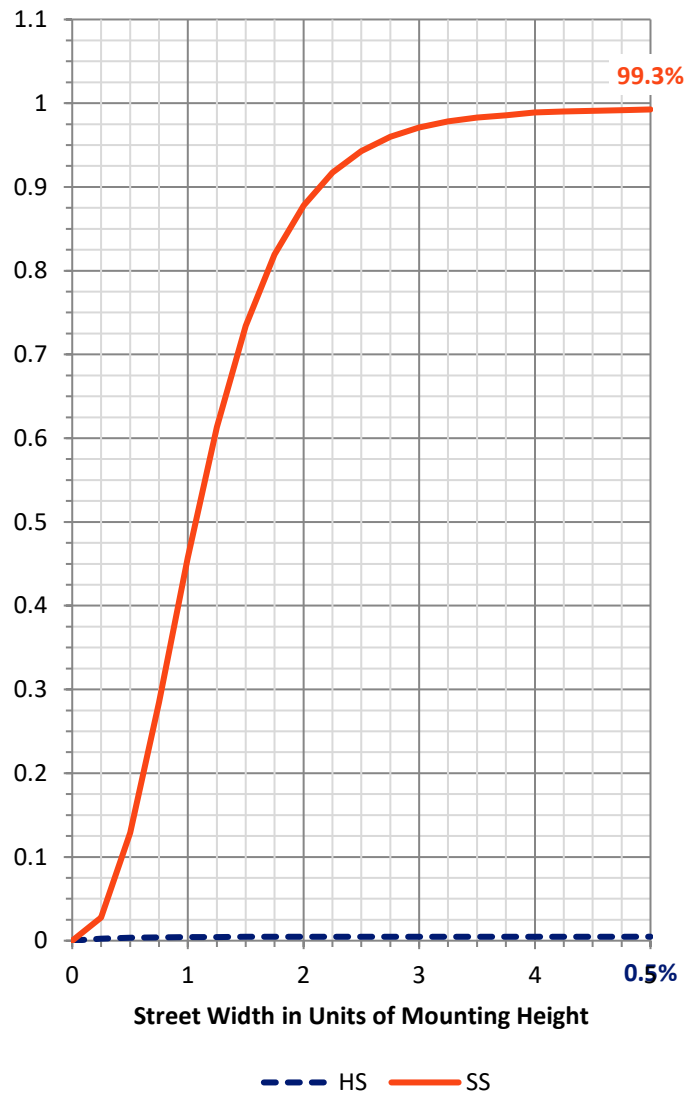
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21.0	0.0	21.0
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	4330.6	0.0	4330.6
	% Fixture	99.5	0.0	99.5
Total	Lumens	4351.6	0.0	4351.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.3	0.0
10°-20°	6.3	0.1
20°-30°	81.2	1.9
30°-40°	273.7	6.3
40°-50°	826.6	19.0
50°-60°	1459.1	33.5
60°-70°	1284.7	29.5
70°-80°	408.9	9.4
80°-90°	9.8	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°	4351.6	100.0
0°-180°	4351.6	100.0



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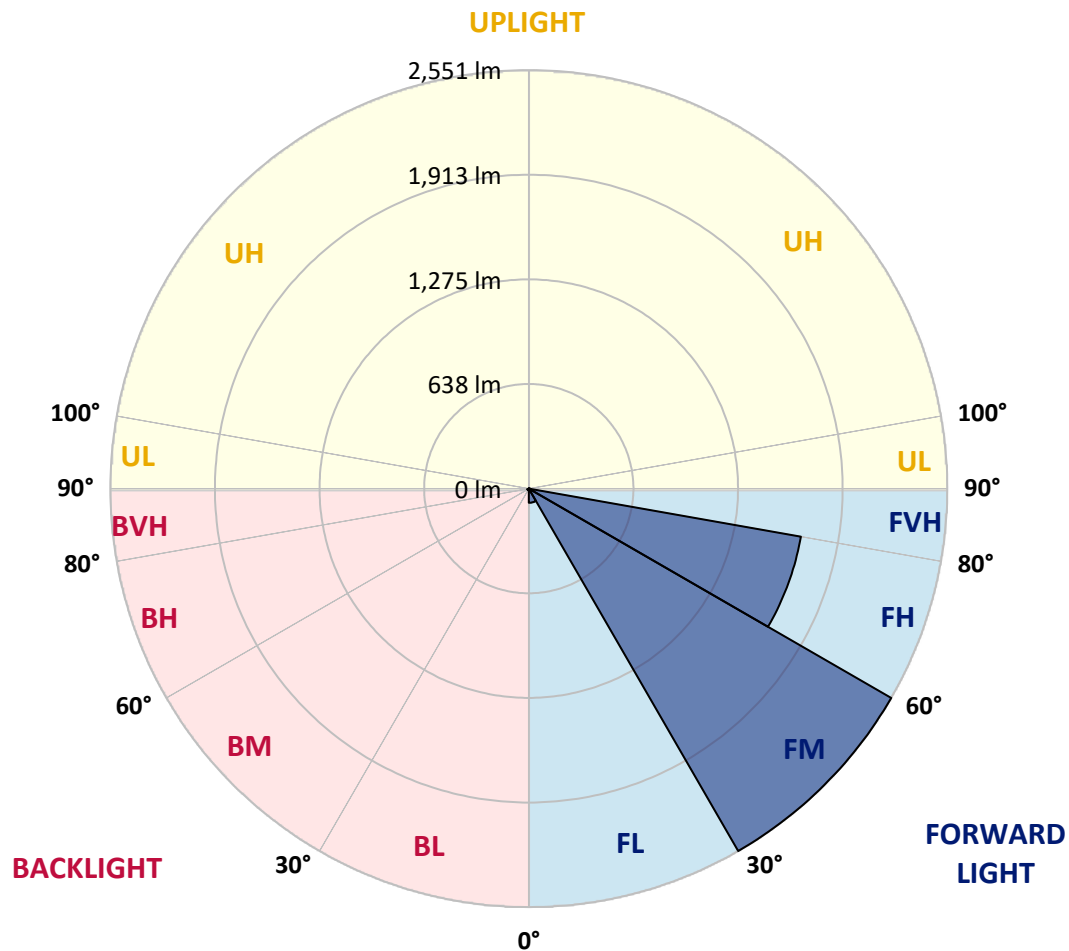
CATALOG NUMBER: NAV-SA1C-835-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	86.5	2.0			
FM	(30°-60°)	2550.7	58.6			
FH	(60°-80°)	1684.1	38.7			G1/1800
FVH	(80°-90°)	9.3	0.2			G0/10
BL	(0°-30°)	2.3	0.1	B0/110		
BM	(30°-60°)	8.6	0.2	B0/220		
BH	(60°-80°)	9.6	0.2	B0/110		G0/110
BVH	(80°-90°)	0.5	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
2.5°	19.1	19.1	17.7	16.4	15.0	13.6	13.6	13.6	12.3	12.3	10.9
5°	21.8	21.8	20.5	19.1	19.1	17.7	17.7	16.4	15.0	15.0	13.6
7.5°	23.2	23.2	23.2	23.2	21.8	21.8	21.8	20.5	19.1	17.7	16.4
10°	24.6	25.9	27.3	27.3	27.3	27.3	27.3	25.9	23.2	21.8	19.1
12.5°	27.3	28.7	31.4	34.1	34.1	35.5	34.1	32.7	30.0	25.9	21.8
15°	30.0	32.7	36.8	42.3	47.8	49.1	49.1	45.0	39.6	31.4	25.9
17.5°	34.1	38.2	49.1	66.9	86.0	101.0	101.0	90.0	62.8	40.9	30.0
20°	36.8	45.0	79.1	161.0	245.6	308.3	296.1	262.0	140.5	64.1	32.7
22.5°	40.9	57.3	167.8	423.0	654.9	769.5	742.2	563.5	315.2	114.6	39.6
25°	46.4	83.2	332.9	792.7	1217.0	1341.2	1323.4	1051.9	574.4	192.4	50.5
27.5°	57.3	122.8	533.5	1202.0	1795.5	1901.9	1895.1	1540.4	918.2	309.7	65.5
30°	72.3	178.7	791.3	1633.1	2178.9	2286.7	2252.6	1897.8	1238.8	473.4	84.6
32.5°	90.0	249.7	1024.6	1951.0	2532.3	2674.1	2633.2	2208.9	1496.7	612.6	125.5
35°	117.3	319.3	1255.2	2232.1	2940.2	3120.3	3052.1	2529.5	1719.1	769.5	151.4
37.5°	131.0	360.2	1466.7	2537.7	3398.6	3644.2	3592.4	2934.7	1945.6	970.1	185.6
40°	132.3	409.3	1686.4	2936.1	4046.7	4484.7	4391.9	3630.6	2367.2	1227.9	238.8
42.5°	136.4	483.0	1971.5	3615.6	5319.6	5948.6	5843.6	4910.3	3323.6	1745.0	338.4
45°	155.5	622.1	2552.7	4885.8	7067.4	7989.7	7868.3	6693.6	4659.3	2717.8	577.1
47.5°	222.4	936.0	3571.9	6257.0	8854.7	9590.1	9560.1	8098.8	5869.5	3715.2	978.2
50°	357.5	1436.7	4731.6	7409.8	9992.6	10624.3	10549.2	8685.5	6559.8	4396.0	1253.8
52.5°	477.5	1915.6	5460.2	7834.2	10332.3	11085.4	10994.0	8899.7	6741.3	4596.5	1330.3
55°	507.5	2088.8	5677.1	7965.1	10557.4	11475.6	11343.3	9043.0	6764.5	4453.3	1203.4
57.5°	492.5	1925.1	5536.6	8093.4	10871.2	11876.8	11700.8	9322.7	6842.3	4210.4	1001.4
59°	466.6	1723.2	5449.3	8195.7	11044.5	11939.5	11774.4	9384.1	6894.1	4099.9	878.6
60°	436.6	1586.8	5381.0	8262.6	11033.6	11841.3	11670.7	9355.4	6914.6	4004.4	820.0
62.5°	337.0	1266.1	5282.8	8214.8	10344.6	10944.9	10848.0	8654.1	6614.4	3698.8	646.7
65°	262.0	968.7	4922.6	7326.6	8802.9	9206.7	9176.7	7328.0	5566.6	3188.5	466.6
67.5°	207.4	706.7	4162.7	5933.6	7082.4	7656.8	7635.0	5948.6	4225.4	2436.7	335.6
70°	169.2	503.4	2854.2	4473.7	5664.8	6387.9	6356.6	4787.5	3131.2	1545.8	244.2
72.5°	143.3	322.0	1731.4	3372.7	4727.5	5140.9	5049.5	3862.5	2277.1	841.8	193.7
75°	121.4	197.8	858.2	2102.5	2816.0	2813.3	2721.9	2045.2	1222.5	412.0	154.2
77.5°	98.2	139.2	337.0	577.1	888.2	1099.7	1081.9	724.5	365.6	120.1	95.5
80°	64.1	65.5	90.0	158.3	244.2	270.1	307.0	221.0	106.4	57.3	39.6
82.5°	28.7	31.4	40.9	51.8	51.8	47.8	42.3	31.4	23.2	19.1	9.6
85°	6.8	9.6	6.8	8.2	6.8	5.5	5.5	2.7	0.0	0.0	0.0
87.5°	1.4	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
2.5°	10.9	10.9	10.9	9.6	9.6	9.6	8.2	8.2	8.2	6.8	6.8
5°	13.6	12.3	10.9	10.9	9.6	9.6	8.2	6.8	6.8	6.8	5.5
7.5°	15.0	13.6	12.3	10.9	9.6	8.2	8.2	6.8	5.5	5.5	5.5
10°	17.7	16.4	13.6	10.9	9.6	8.2	6.8	6.8	5.5	4.1	4.1
12.5°	20.5	17.7	15.0	12.3	9.6	8.2	6.8	6.8	5.5	4.1	2.7
15°	23.2	20.5	16.4	12.3	9.6	8.2	6.8	6.8	4.1	2.7	1.4
17.5°	25.9	21.8	16.4	13.6	9.6	8.2	6.8	5.5	2.7	1.4	0.0
20°	27.3	23.2	17.7	13.6	9.6	8.2	6.8	4.1	1.4	0.0	0.0
22.5°	30.0	25.9	19.1	13.6	9.6	6.8	4.1	1.4	0.0	0.0	0.0
25°	35.5	27.3	19.1	13.6	9.6	6.8	2.7	0.0	0.0	0.0	0.0
27.5°	39.6	30.0	19.1	13.6	9.6	5.5	1.4	0.0	0.0	0.0	0.0
30°	46.4	32.7	20.5	13.6	9.6	4.1	1.4	0.0	0.0	0.0	0.0
32.5°	57.3	35.5	20.5	13.6	8.2	4.1	0.0	0.0	0.0	0.0	0.0
35°	69.6	40.9	20.5	13.6	8.2	4.1	0.0	0.0	0.0	0.0	0.0
37.5°	70.9	43.7	20.5	13.6	8.2	2.7	0.0	0.0	0.0	0.0	0.0
40°	73.7	40.9	21.8	13.6	8.2	2.7	0.0	0.0	0.0	0.0	0.0
42.5°	84.6	38.2	23.2	13.6	8.2	2.7	0.0	0.0	0.0	0.0	0.0
45°	125.5	39.6	23.2	15.0	8.2	4.1	0.0	0.0	0.0	0.0	0.0
47.5°	218.3	40.9	21.8	15.0	8.2	4.1	0.0	0.0	0.0	0.0	0.0
50°	279.7	47.8	21.8	16.4	9.6	2.7	0.0	0.0	0.0	0.0	0.0
52.5°	297.4	55.9	21.8	17.7	12.3	1.4	0.0	0.0	0.0	0.0	0.0
55°	289.2	65.5	23.2	19.1	15.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	267.4	70.9	24.6	20.5	16.4	0.0	0.0	0.0	0.0	0.0	0.0
59°	244.2	75.0	28.7	21.8	16.4	0.0	0.0	0.0	0.0	0.0	0.0
60°	225.1	79.1	30.0	23.2	16.4	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	181.5	84.6	32.7	27.3	13.6	0.0	0.0	0.0	0.0	0.0	0.0
65°	158.3	88.7	34.1	30.0	12.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	144.6	91.4	36.8	31.4	10.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	133.7	90.0	39.6	30.0	9.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	121.4	86.0	47.8	27.3	8.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	109.1	77.8	51.8	24.6	5.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	79.1	65.5	47.8	21.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	34.1	35.5	34.1	16.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.8	8.2	6.8	4.1	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°	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
2.5°	6.8	6.8	6.8	6.8	8.2	8.2	10.9	13.6	16.4	17.7	17.7
5°	5.5	5.5	5.5	5.5	5.5	6.8	8.2	10.9	15.0	16.4	16.4
7.5°	4.1	4.1	4.1	4.1	4.1	4.1	6.8	9.6	13.6	15.0	16.4
10°	4.1	2.7	2.7	1.4	1.4	2.7	4.1	8.2	12.3	13.6	15.0
12.5°	2.7	1.4	1.4	0.0	0.0	1.4	2.7	6.8	10.9	12.3	13.6
15°	1.4	0.0	0.0	0.0	0.0	0.0	1.4	5.5	9.6	10.9	13.6
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	8.2	10.9	12.3
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	6.8	9.6	10.9
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	5.5	8.2	9.6
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	5.5	6.8
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	4.1	5.5
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	4.1	5.5
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.7	4.1
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.7	4.1
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.7	2.7
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.7
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.7
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.7
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.7
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.7
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
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°	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
2.5°	19.1	19.1	17.7	16.4	16.4	16.4	17.7	19.1	19.1	19.1
5°	17.7	17.7	16.4	16.4	16.4	16.4	17.7	20.5	21.8	21.8
7.5°	17.7	17.7	16.4	16.4	16.4	16.4	17.7	20.5	21.8	23.2
10°	16.4	16.4	16.4	16.4	15.0	16.4	17.7	20.5	24.6	24.6
12.5°	16.4	16.4	16.4	16.4	15.0	16.4	19.1	21.8	25.9	27.3
15°	16.4	16.4	16.4	15.0	15.0	16.4	19.1	23.2	27.3	30.0
17.5°	15.0	16.4	16.4	15.0	15.0	16.4	19.1	23.2	30.0	34.1
20°	13.6	15.0	16.4	15.0	15.0	15.0	19.1	23.2	31.4	36.8
22.5°	12.3	13.6	15.0	15.0	13.6	15.0	19.1	24.6	34.1	40.9
25°	10.9	12.3	12.3	13.6	13.6	15.0	19.1	24.6	35.5	46.4
27.5°	8.2	9.6	10.9	12.3	12.3	15.0	19.1	25.9	38.2	57.3
30°	6.8	8.2	9.6	10.9	12.3	15.0	19.1	25.9	40.9	72.3
32.5°	6.8	8.2	9.6	10.9	12.3	13.6	19.1	27.3	45.0	90.0
35°	5.5	6.8	8.2	10.9	10.9	13.6	19.1	27.3	49.1	117.3
37.5°	5.5	6.8	8.2	10.9	10.9	13.6	19.1	27.3	60.0	131.0
40°	4.1	5.5	6.8	10.9	10.9	13.6	20.5	28.7	61.4	132.3
42.5°	4.1	5.5	6.8	9.6	10.9	13.6	20.5	28.7	57.3	136.4
45°	4.1	5.5	6.8	10.9	12.3	15.0	20.5	30.0	55.9	155.5
47.5°	4.1	5.5	6.8	10.9	13.6	15.0	20.5	30.0	57.3	222.4
50°	4.1	5.5	6.8	10.9	15.0	15.0	20.5	30.0	62.8	357.5
52.5°	2.7	4.1	5.5	9.6	12.3	16.4	21.8	28.7	66.9	477.5
55°	2.7	2.7	4.1	8.2	10.9	17.7	23.2	28.7	77.8	507.5
57.5°	2.7	2.7	4.1	6.8	9.6	19.1	24.6	28.7	90.0	492.5
59°	2.7	2.7	2.7	6.8	8.2	19.1	24.6	30.0	91.4	466.6
60°	2.7	2.7	2.7	5.5	8.2	19.1	25.9	31.4	92.8	436.6
62.5°	1.4	1.4	1.4	5.5	6.8	19.1	28.7	38.2	95.5	337.0
65°	2.7	2.7	1.4	4.1	6.8	16.4	32.7	40.9	96.9	262.0
67.5°	2.7	2.7	2.7	5.5	6.8	16.4	34.1	42.3	96.9	207.4
70°	2.7	2.7	2.7	5.5	8.2	16.4	34.1	43.7	95.5	169.2
72.5°	2.7	2.7	2.7	5.5	8.2	15.0	31.4	45.0	91.4	143.3
75°	2.7	2.7	2.7	4.1	6.8	13.6	30.0	49.1	83.2	121.4
77.5°	2.7	2.7	2.7	2.7	5.5	10.9	27.3	54.6	73.7	98.2
80°	4.1	2.7	2.7	2.7	4.1	9.6	25.9	53.2	61.4	64.1
82.5°	4.1	2.7	2.7	1.4	2.7	6.8	20.5	40.9	31.4	28.7
85°	2.7	2.7	2.7	1.4	1.4	4.1	9.6	12.3	9.6	6.8
87.5°	2.7	2.7	2.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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: SP1-2407-184-10

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

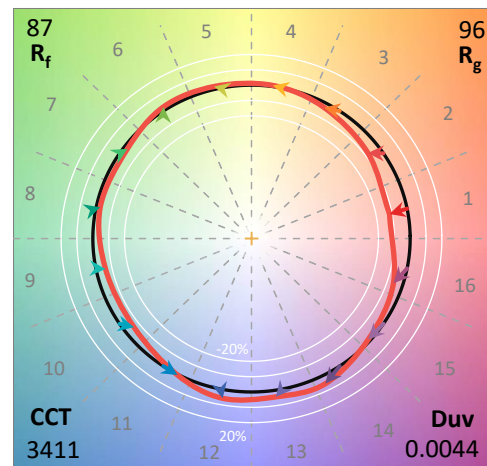
Test Information

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

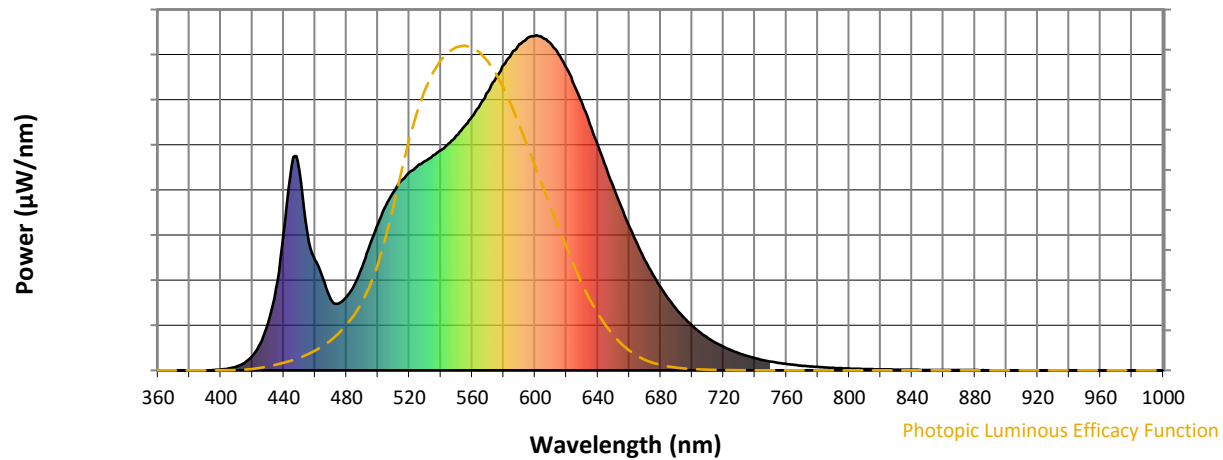
Stabilization Time: 35M
 Operation Time: 1H 35M
 Sphere Temperature (°C): 25.2

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

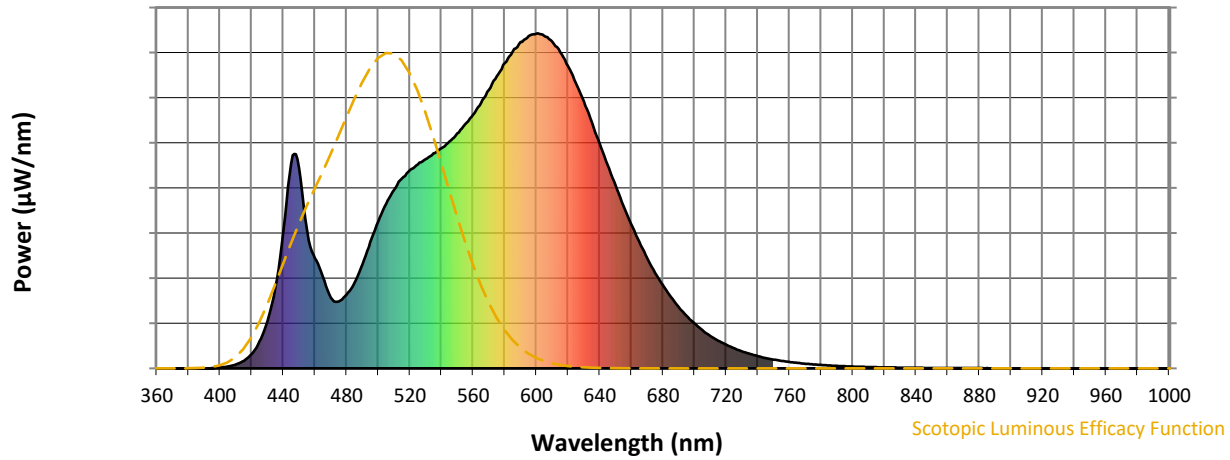


Photopic Lumens: NR

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



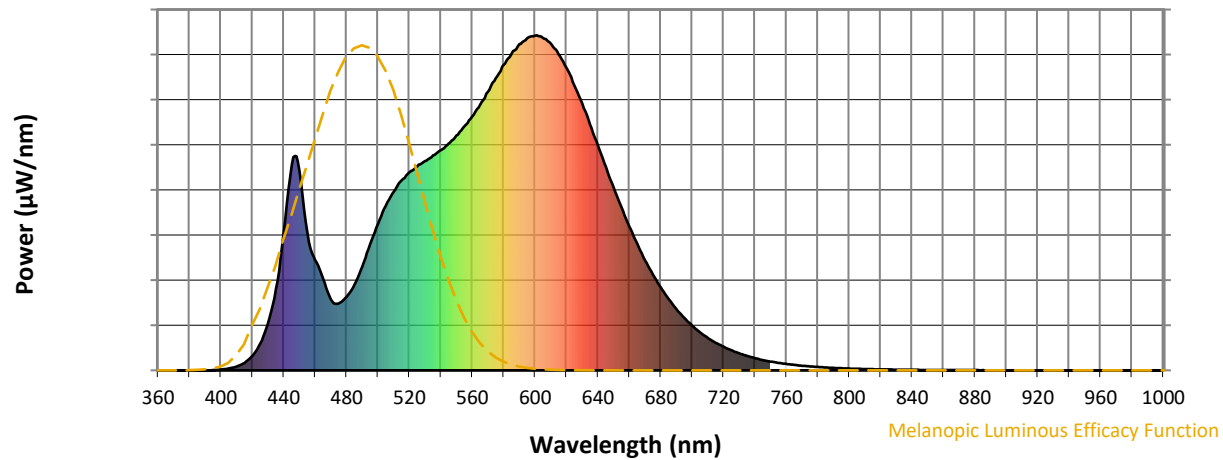
Scotopic Lumens: NR

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

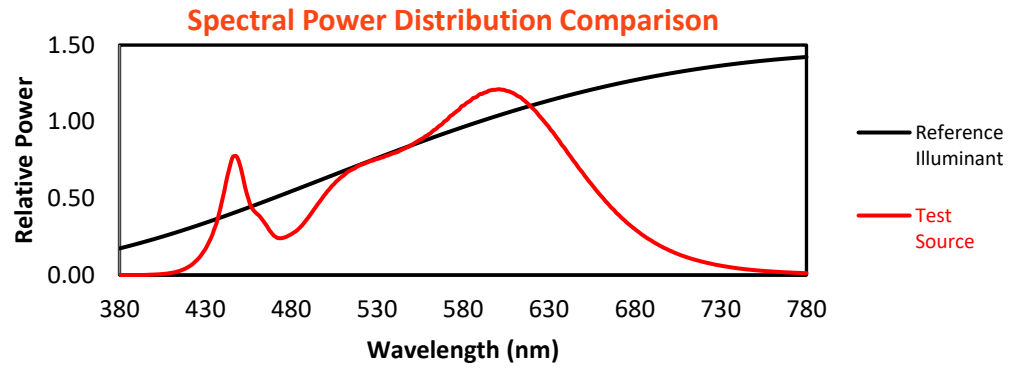
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	311	NR	620	903	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

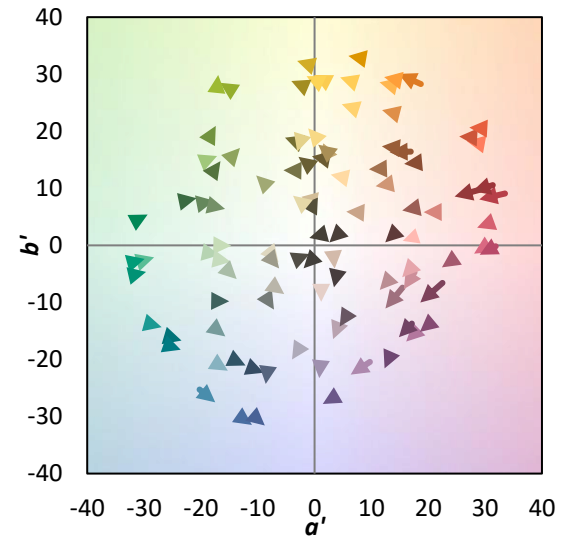
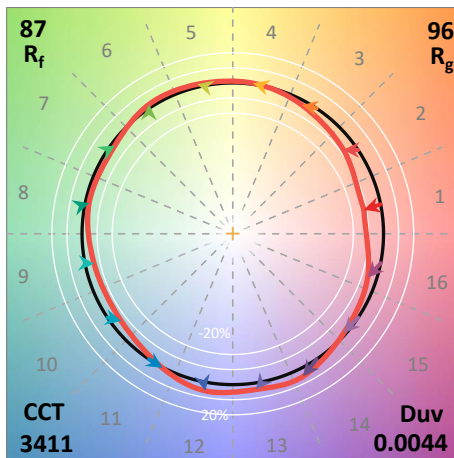
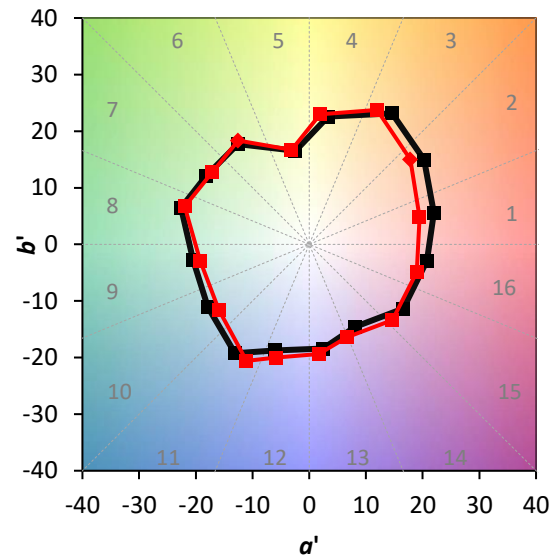
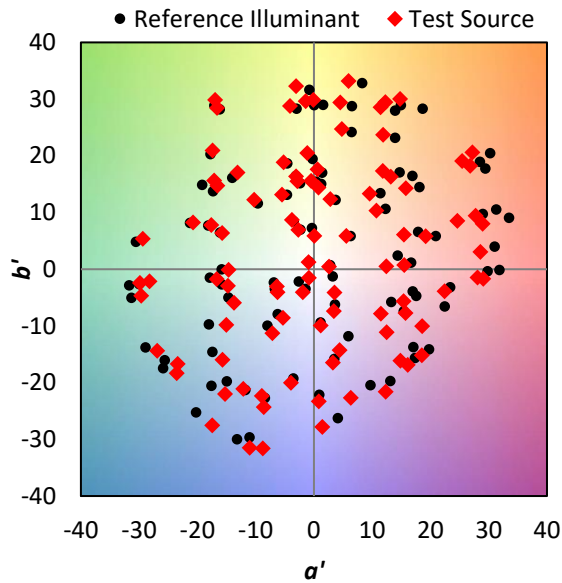
TM-30-18

Summary

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

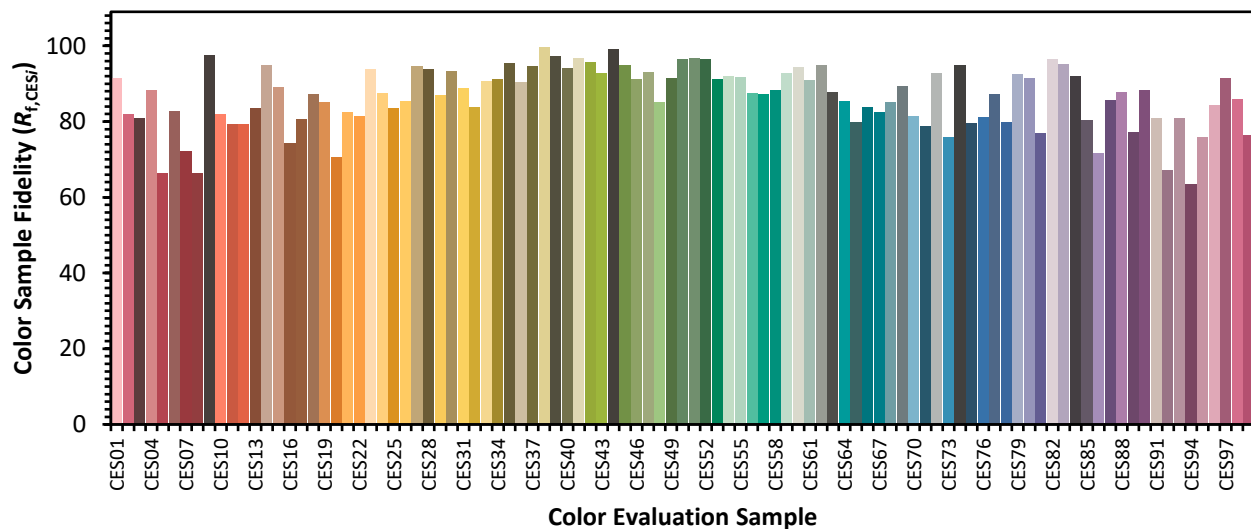


Color Vector Graphics

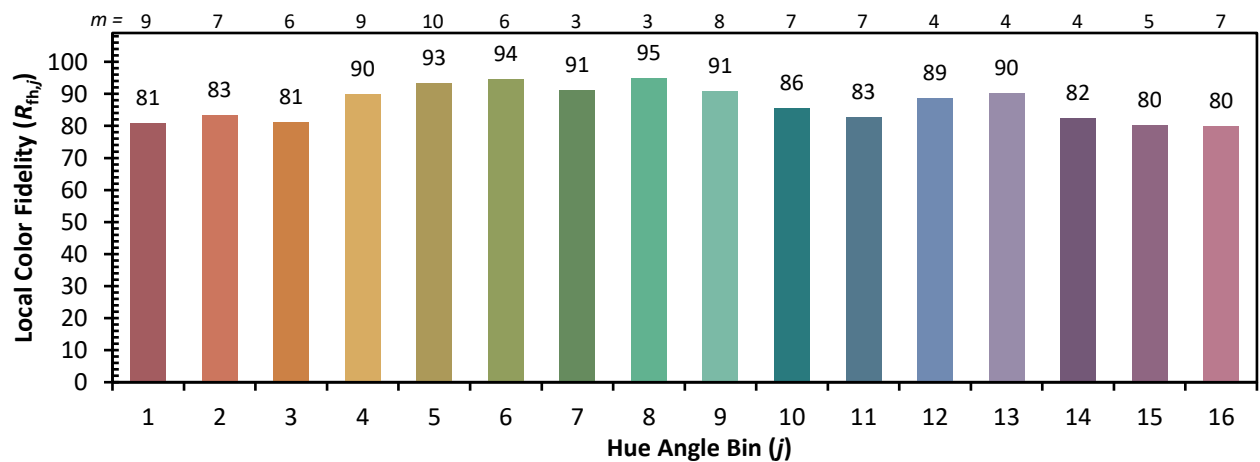
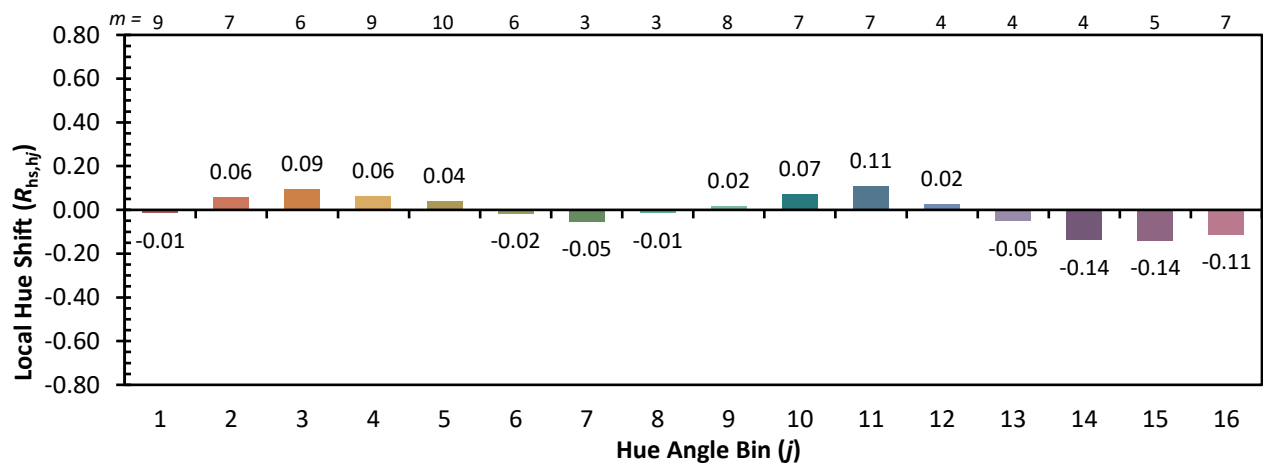
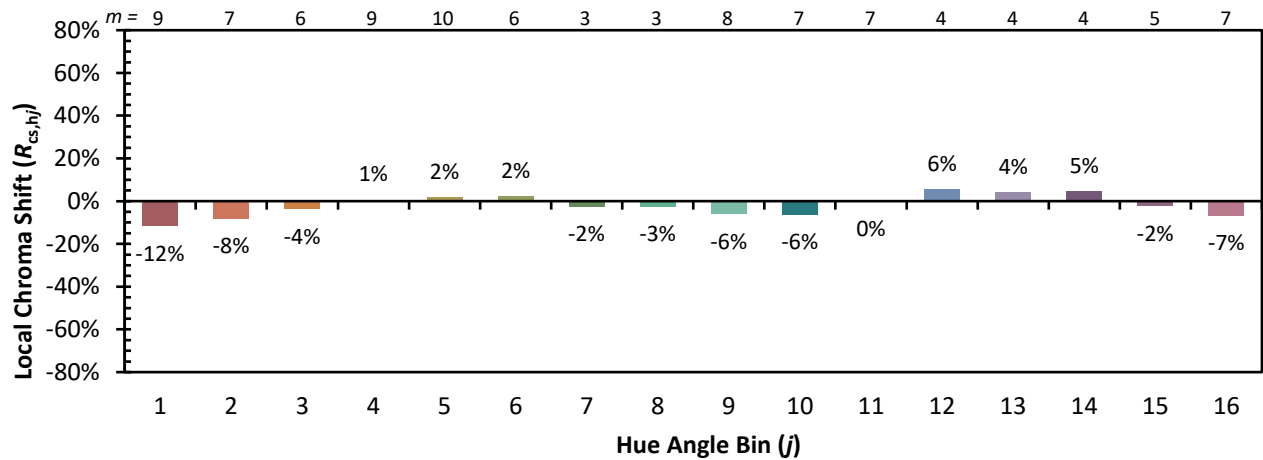


Individual Sample Fidelity Index ($R_{f,i}$)

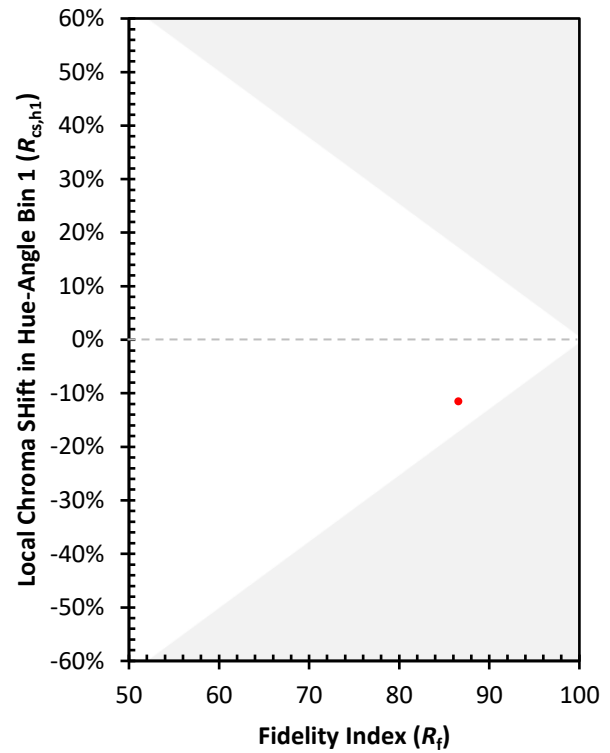
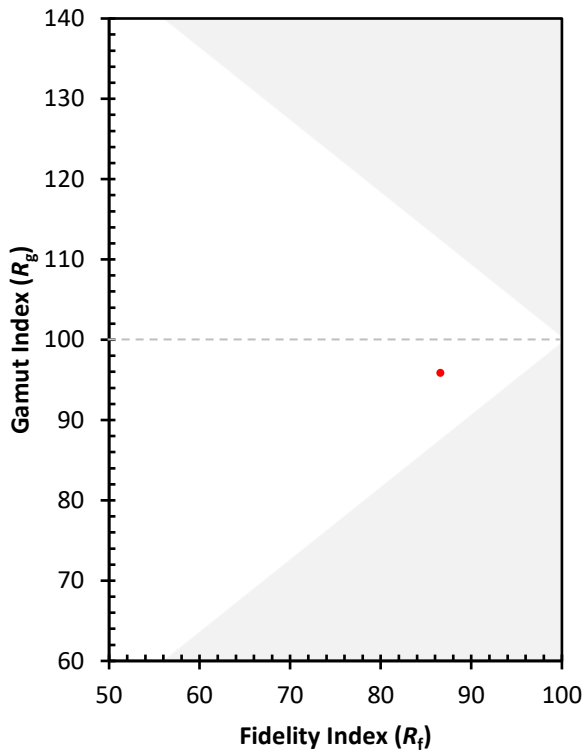
CES01 = 86	CES26 = 85	CES51 = 97	CES76 = 81
CES02 = 62	CES27 = 95	CES52 = 96	CES77 = 87
CES03 = 31	CES28 = 94	CES53 = 91	CES78 = 80
CES04 = 70	CES29 = 87	CES54 = 92	CES79 = 93
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 91
CES06 = 51	CES31 = 89	CES56 = 88	CES81 = 77
CES07 = 41	CES32 = 84	CES57 = 87	CES82 = 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)