

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: P1067970

Luminaire Tested: **NAV-SA2B-735-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067970
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA2B-735-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 2xLight Square PACKAGE
70CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7241.4 lumens
Efficiency: N/A
Efficacy: 99.5 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): 72.8
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

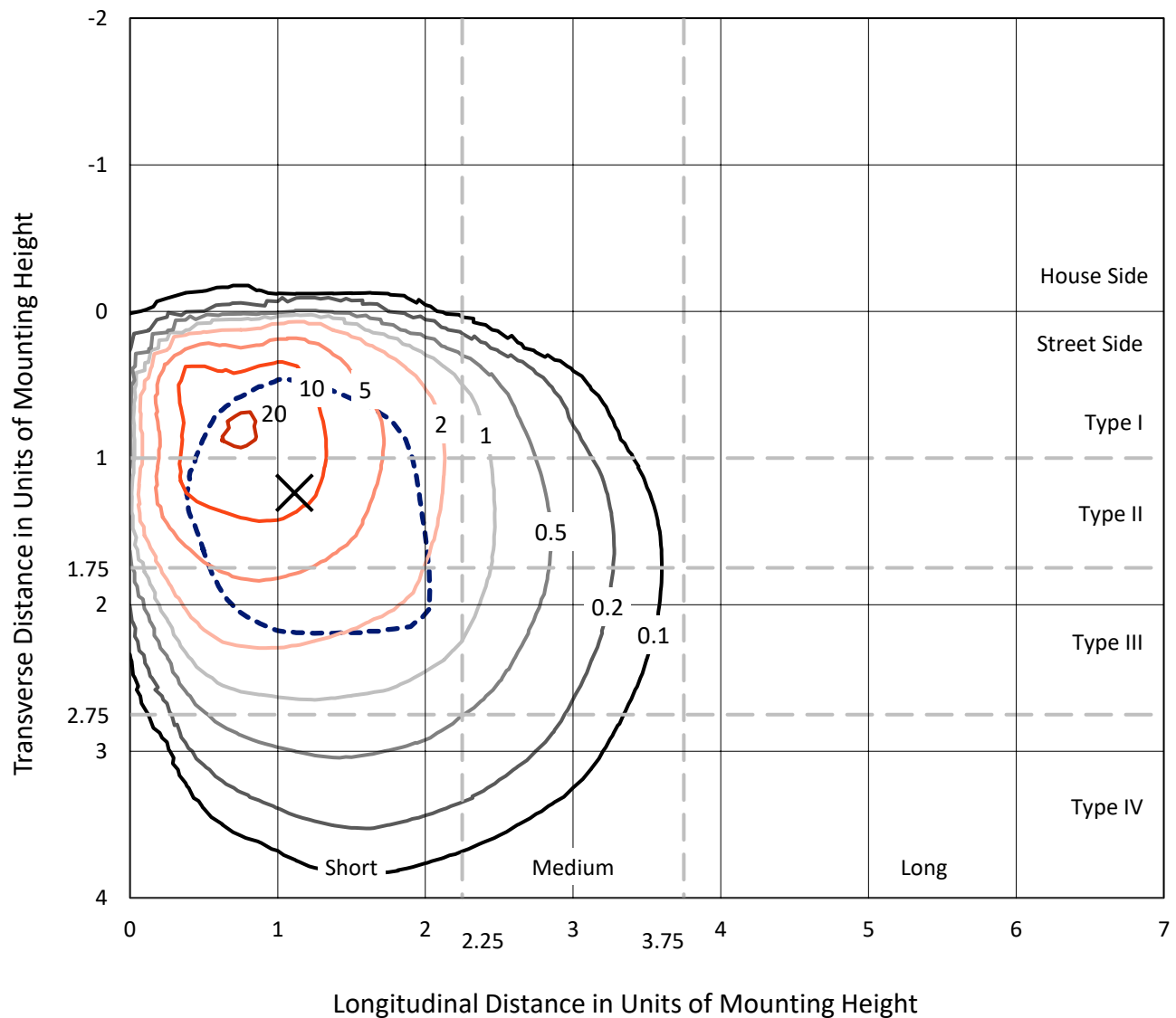


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

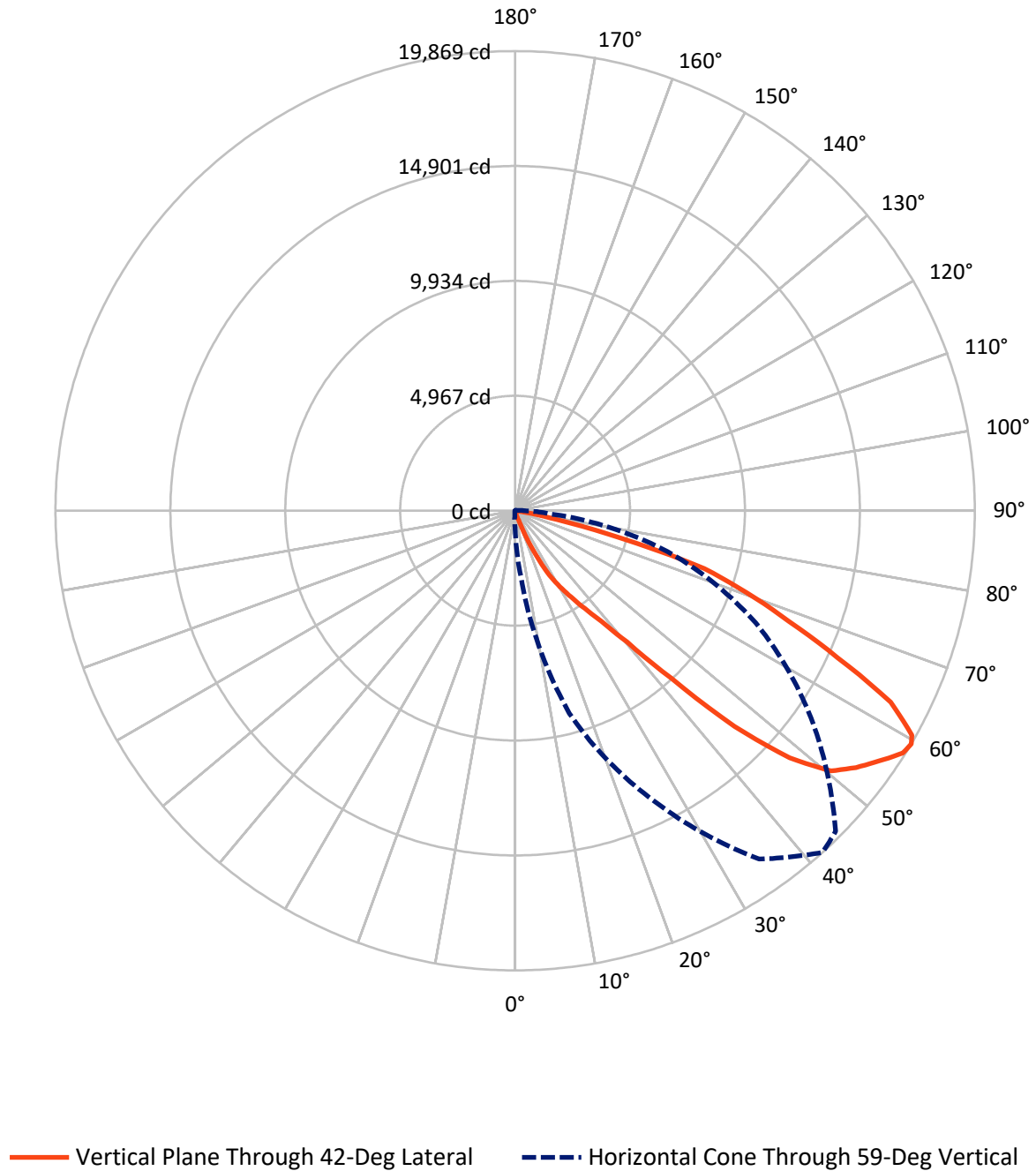


Based on 15 foot mounting height. Maximum calculated value = 21.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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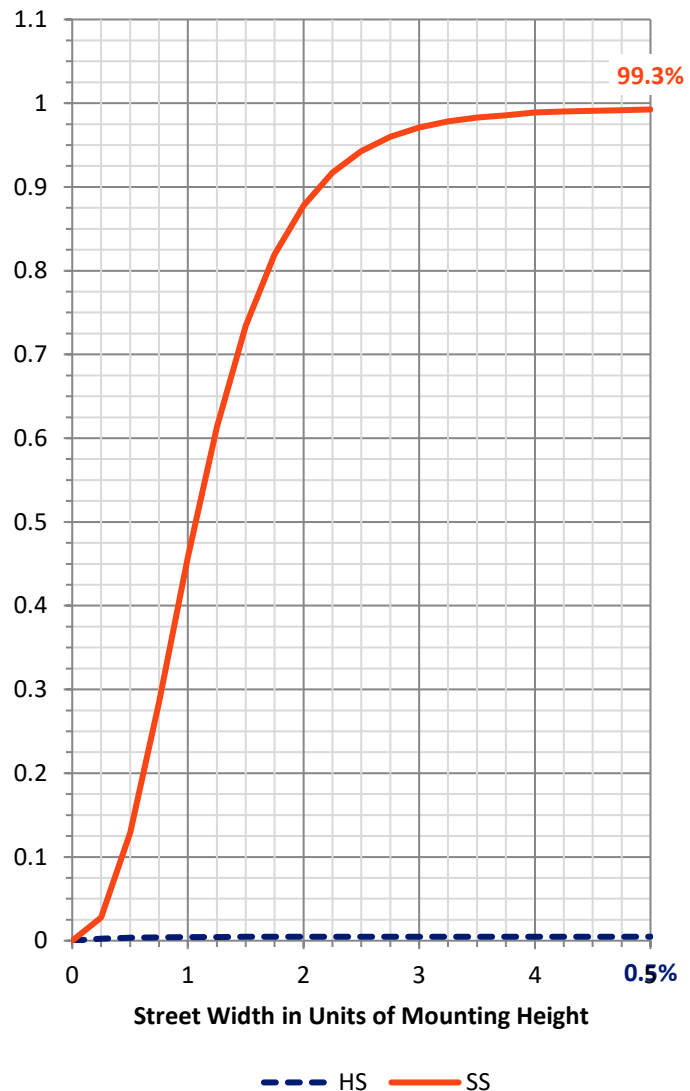
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	34.9	0.0	34.9
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	7206.5	0.0	7206.5
	% Fixture	99.5	0.0	99.5
Total	Lumens	7241.4	0.0	7241.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.0
10°-20°	10.6	0.1
20°-30°	135.1	1.9
30°-40°	455.4	6.3
40°-50°	1375.5	19.0
50°-60°	2428.1	33.5
60°-70°	2137.9	29.5
70°-80°	680.5	9.4
80°-90°	16.3	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°	7241.4	100.0
0°-180°	7241.4	100.0



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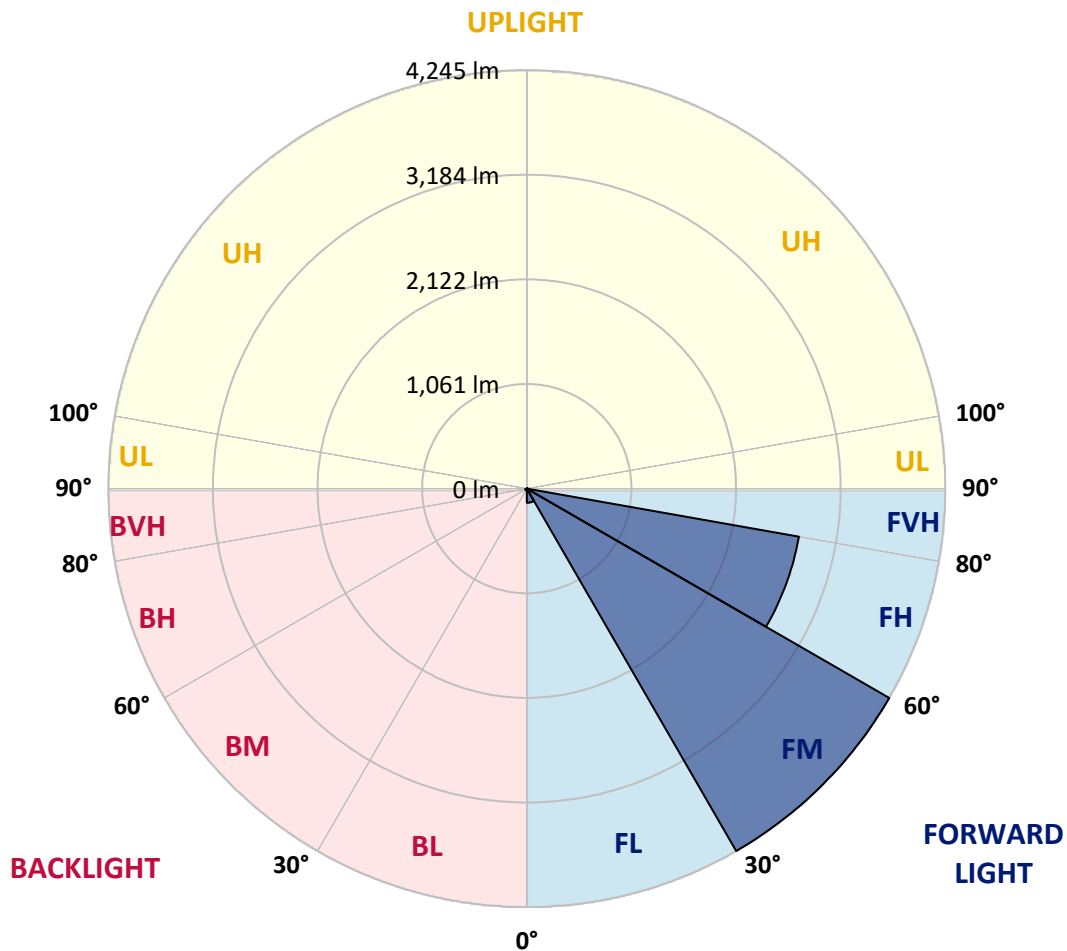
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	143.9	2.0			
FM	(30°-60°)	4244.7	58.6			
FH	(60°-80°)	2802.5	38.7			G2/5000
FVH	(80°-90°)	15.5	0.2			G1/100
BL	(0°-30°)	3.9	0.1	B0/110		
BM	(30°-60°)	14.3	0.2	B0/220		
BH	(60°-80°)	16.0	0.2	B0/110		G0/110
BVH	(80°-90°)	0.8	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
2.5°	31.8	31.8	29.5	27.2	25.0	22.7	22.7	22.7	20.4	20.4	18.2
5°	36.3	36.3	34.1	31.8	31.8	29.5	29.5	27.2	25.0	25.0	22.7
7.5°	38.6	38.6	38.6	38.6	36.3	36.3	36.3	34.1	31.8	29.5	27.2
10°	40.9	43.1	45.4	45.4	45.4	45.4	45.4	43.1	38.6	36.3	31.8
12.5°	45.4	47.7	52.2	56.8	56.8	59.0	56.8	54.5	49.9	43.1	36.3
15°	49.9	54.5	61.3	70.4	79.5	81.7	81.7	74.9	65.8	52.2	43.1
17.5°	56.8	63.6	81.7	111.3	143.0	168.0	168.0	149.8	104.4	68.1	49.9
20°	61.3	74.9	131.7	267.9	408.7	513.1	492.7	435.9	233.9	106.7	54.5
22.5°	68.1	95.4	279.3	703.8	1089.8	1280.5	1235.1	937.7	524.5	190.7	65.8
25°	77.2	138.5	554.0	1319.1	2025.2	2231.8	2202.3	1750.5	955.9	320.1	84.0
27.5°	95.4	204.3	887.7	2000.2	2987.9	3165.0	3153.6	2563.3	1528.0	515.4	109.0
30°	120.3	297.4	1316.8	2717.7	3625.9	3805.2	3748.5	3158.2	2061.6	787.8	140.8
32.5°	149.8	415.5	1705.1	3246.7	4213.9	4450.0	4381.9	3675.8	2490.7	1019.4	208.9
35°	195.3	531.3	2088.8	3714.4	4892.8	5192.5	5079.0	4209.4	2860.7	1280.5	252.0
37.5°	218.0	599.4	2440.7	4223.0	5655.6	6064.3	5978.0	4883.7	3237.6	1614.3	308.8
40°	220.2	681.1	2806.3	4886.0	6734.1	7462.9	7308.5	6041.6	3939.2	2043.4	397.3
42.5°	227.0	803.7	3280.8	6016.6	8852.4	9899.1	9724.3	8171.3	5530.8	2903.9	563.1
45°	258.8	1035.3	4248.0	8130.4	11760.8	13295.6	13093.6	11138.7	7753.5	4522.7	960.4
47.5°	370.1	1557.5	5944.0	10412.2	14735.1	15958.9	15908.9	13477.3	9767.4	6182.4	1627.9
50°	594.9	2390.8	7873.9	12330.7	16628.6	17679.8	17555.0	14453.6	10916.2	7315.3	2086.5
52.5°	794.7	3187.7	9086.3	13036.8	17194.0	18447.2	18295.1	14810.0	11218.2	7649.1	2213.7
55°	844.6	3476.0	9447.3	13254.8	17568.6	19096.6	18876.4	15048.4	11256.8	7410.7	2002.5
57.5°	819.6	3203.6	9213.4	13468.2	18090.8	19764.1	19471.2	15513.8	11386.2	7006.5	1666.5
59°	776.5	2867.6	9068.1	13638.5	18379.1	19868.5	19593.8	15616.0	11472.5	6822.6	1462.2
60°	726.5	2640.5	8954.6	13749.7	18361.0	19705.1	19421.3	15568.3	11506.5	6663.7	1364.5
62.5°	560.8	2107.0	8791.1	13670.3	17214.4	18213.4	18052.2	14401.3	11007.0	6155.1	1076.2
65°	435.9	1612.0	8191.7	12192.2	14648.8	15320.9	15270.9	12194.5	9263.4	5306.0	776.5
67.5°	345.1	1176.1	6927.1	9874.1	11785.8	12741.7	12705.3	9899.1	7031.5	4055.0	558.5
70°	281.5	837.8	4749.7	7444.7	9426.8	10630.2	10577.9	7966.9	5210.6	2572.4	406.4
72.5°	238.4	535.8	2881.2	5612.5	7867.0	8555.0	8402.9	6427.6	3789.3	1400.9	322.4
75°	202.1	329.2	1428.1	3498.7	4686.2	4681.6	4529.5	3403.4	2034.3	685.7	256.6
77.5°	163.5	231.6	560.8	960.4	1478.0	1830.0	1800.5	1205.6	608.5	199.8	158.9
80°	106.7	109.0	149.8	263.4	406.4	449.5	510.8	367.8	177.1	95.4	65.8
82.5°	47.7	52.2	68.1	86.3	86.3	79.5	70.4	52.2	38.6	31.8	15.9
85°	11.4	15.9	11.4	13.6	11.4	9.1	9.1	4.5	0.0	0.0	0.0
87.5°	2.3	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°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
2.5°	18.2	18.2	18.2	15.9	15.9	15.9	13.6	13.6	13.6	11.4	11.4
5°	22.7	20.4	18.2	18.2	15.9	15.9	13.6	11.4	11.4	11.4	9.1
7.5°	25.0	22.7	20.4	18.2	15.9	13.6	13.6	11.4	9.1	9.1	9.1
10°	29.5	27.2	22.7	18.2	15.9	13.6	11.4	11.4	9.1	6.8	6.8
12.5°	34.1	29.5	25.0	20.4	15.9	13.6	11.4	11.4	9.1	6.8	4.5
15°	38.6	34.1	27.2	20.4	15.9	13.6	11.4	11.4	6.8	4.5	2.3
17.5°	43.1	36.3	27.2	22.7	15.9	13.6	11.4	9.1	4.5	2.3	0.0
20°	45.4	38.6	29.5	22.7	15.9	13.6	11.4	6.8	2.3	0.0	0.0
22.5°	49.9	43.1	31.8	22.7	15.9	11.4	6.8	2.3	0.0	0.0	0.0
25°	59.0	45.4	31.8	22.7	15.9	11.4	4.5	0.0	0.0	0.0	0.0
27.5°	65.8	49.9	31.8	22.7	15.9	9.1	2.3	0.0	0.0	0.0	0.0
30°	77.2	54.5	34.1	22.7	15.9	6.8	2.3	0.0	0.0	0.0	0.0
32.5°	95.4	59.0	34.1	22.7	13.6	6.8	0.0	0.0	0.0	0.0	0.0
35°	115.8	68.1	34.1	22.7	13.6	6.8	0.0	0.0	0.0	0.0	0.0
37.5°	118.1	72.7	34.1	22.7	13.6	4.5	0.0	0.0	0.0	0.0	0.0
40°	122.6	68.1	36.3	22.7	13.6	4.5	0.0	0.0	0.0	0.0	0.0
42.5°	140.8	63.6	38.6	22.7	13.6	4.5	0.0	0.0	0.0	0.0	0.0
45°	208.9	65.8	38.6	25.0	13.6	6.8	0.0	0.0	0.0	0.0	0.0
47.5°	363.3	68.1	36.3	25.0	13.6	6.8	0.0	0.0	0.0	0.0	0.0
50°	465.4	79.5	36.3	27.2	15.9	4.5	0.0	0.0	0.0	0.0	0.0
52.5°	495.0	93.1	36.3	29.5	20.4	2.3	0.0	0.0	0.0	0.0	0.0
55°	481.3	109.0	38.6	31.8	25.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	445.0	118.1	40.9	34.1	27.2	0.0	0.0	0.0	0.0	0.0	0.0
59°	406.4	124.9	47.7	36.3	27.2	0.0	0.0	0.0	0.0	0.0	0.0
60°	374.6	131.7	49.9	38.6	27.2	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	302.0	140.8	54.5	45.4	22.7	0.0	0.0	0.0	0.0	0.0	0.0
65°	263.4	147.6	56.8	49.9	20.4	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	240.7	152.1	61.3	52.2	18.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	222.5	149.8	65.8	49.9	15.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	202.1	143.0	79.5	45.4	13.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	181.6	129.4	86.3	40.9	9.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	131.7	109.0	79.5	36.3	4.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	56.8	59.0	56.8	27.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	11.4	13.6	11.4	6.8	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°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
2.5°	11.4	11.4	11.4	11.4	13.6	13.6	18.2	22.7	27.2	29.5	29.5
5°	9.1	9.1	9.1	9.1	9.1	11.4	13.6	18.2	25.0	27.2	27.2
7.5°	6.8	6.8	6.8	6.8	6.8	6.8	11.4	15.9	22.7	25.0	27.2
10°	6.8	4.5	4.5	2.3	2.3	4.5	6.8	13.6	20.4	22.7	25.0
12.5°	4.5	2.3	2.3	0.0	0.0	2.3	4.5	11.4	18.2	20.4	22.7
15°	2.3	0.0	0.0	0.0	0.0	0.0	2.3	9.1	15.9	18.2	22.7
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	13.6	18.2	20.4
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	11.4	15.9	18.2
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	9.1	13.6	15.9
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	9.1	11.4
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	6.8	9.1
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	6.8	9.1
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	4.5	6.8
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	4.5	6.8
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	4.5	4.5
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	4.5
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	4.5
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	4.5
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	4.5
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	4.5
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	2.3
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	2.3
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	2.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	4.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	4.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	2.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	2.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	2.3
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°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
2.5°	31.8	31.8	29.5	27.2	27.2	27.2	29.5	31.8	31.8	31.8
5°	29.5	29.5	27.2	27.2	27.2	27.2	29.5	34.1	36.3	36.3
7.5°	29.5	29.5	27.2	27.2	27.2	27.2	29.5	34.1	36.3	38.6
10°	27.2	27.2	27.2	27.2	25.0	27.2	29.5	34.1	40.9	40.9
12.5°	27.2	27.2	27.2	27.2	25.0	27.2	31.8	36.3	43.1	45.4
15°	27.2	27.2	27.2	25.0	25.0	27.2	31.8	38.6	45.4	49.9
17.5°	25.0	27.2	27.2	25.0	25.0	27.2	31.8	38.6	49.9	56.8
20°	22.7	25.0	27.2	25.0	25.0	25.0	31.8	38.6	52.2	61.3
22.5°	20.4	22.7	25.0	25.0	22.7	25.0	31.8	40.9	56.8	68.1
25°	18.2	20.4	20.4	22.7	22.7	25.0	31.8	40.9	59.0	77.2
27.5°	13.6	15.9	18.2	20.4	20.4	25.0	31.8	43.1	63.6	95.4
30°	11.4	13.6	15.9	18.2	20.4	25.0	31.8	43.1	68.1	120.3
32.5°	11.4	13.6	15.9	18.2	20.4	22.7	31.8	45.4	74.9	149.8
35°	9.1	11.4	13.6	18.2	18.2	22.7	31.8	45.4	81.7	195.3
37.5°	9.1	11.4	13.6	18.2	18.2	22.7	31.8	45.4	99.9	218.0
40°	6.8	9.1	11.4	18.2	18.2	22.7	34.1	47.7	102.2	220.2
42.5°	6.8	9.1	11.4	15.9	18.2	22.7	34.1	47.7	95.4	227.0
45°	6.8	9.1	11.4	18.2	20.4	25.0	34.1	49.9	93.1	258.8
47.5°	6.8	9.1	11.4	18.2	22.7	25.0	34.1	49.9	95.4	370.1
50°	6.8	9.1	11.4	18.2	25.0	25.0	34.1	49.9	104.4	594.9
52.5°	4.5	6.8	9.1	15.9	20.4	27.2	36.3	47.7	111.3	794.7
55°	4.5	4.5	6.8	13.6	18.2	29.5	38.6	47.7	129.4	844.6
57.5°	4.5	4.5	6.8	11.4	15.9	31.8	40.9	47.7	149.8	819.6
59°	4.5	4.5	4.5	11.4	13.6	31.8	40.9	49.9	152.1	776.5
60°	4.5	4.5	4.5	9.1	13.6	31.8	43.1	52.2	154.4	726.5
62.5°	2.3	2.3	2.3	9.1	11.4	31.8	47.7	63.6	158.9	560.8
65°	4.5	4.5	2.3	6.8	11.4	27.2	54.5	68.1	161.2	435.9
67.5°	4.5	4.5	4.5	9.1	11.4	27.2	56.8	70.4	161.2	345.1
70°	4.5	4.5	4.5	9.1	13.6	27.2	56.8	72.7	158.9	281.5
72.5°	4.5	4.5	4.5	9.1	13.6	25.0	52.2	74.9	152.1	238.4
75°	4.5	4.5	4.5	6.8	11.4	22.7	49.9	81.7	138.5	202.1
77.5°	4.5	4.5	4.5	4.5	9.1	18.2	45.4	90.8	122.6	163.5
80°	6.8	4.5	4.5	4.5	6.8	15.9	43.1	88.5	102.2	106.7
82.5°	6.8	4.5	4.5	2.3	4.5	11.4	34.1	68.1	52.2	47.7
85°	4.5	4.5	4.5	2.3	2.3	6.8	15.9	20.4	15.9	11.4
87.5°	4.5	4.5	4.5	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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: SP1-2407-184-5

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-735-U-5WQ

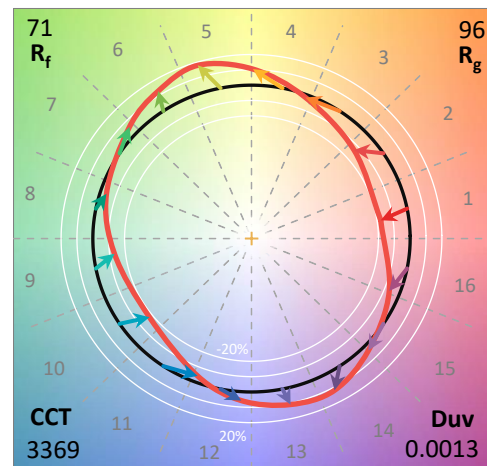
Data in this report applies to families of products including GSS-SB1A-735-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-5
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/15/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGraw-Edison
 Catalog Number: **GSS-SB1A-735-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K):	3369	CRI (Ra):	70.1		
CIE u':	0.2386	R1:	66.6	R9:	-40.2
CIE v':	0.5156	R2:	77.6	R10:	49.1
Duv:	0.0013	R3:	88.5	R11:	66.3
CIE x:	0.4143	R4:	69.5	R12:	45.7
CIE y:	0.3980	R5:	66.4	R13:	68.0
CIE z:	0.1877	R6:	69.6	R14:	93.4
Peak Wavelength (nm):	590	R7:	77.5	R15:	57.6
Dominant Wavelength (nm):	580	R8:	44.9		
Purity:	43.80166				
Rf:	71.4				
Rg:	96				



Test Conditions

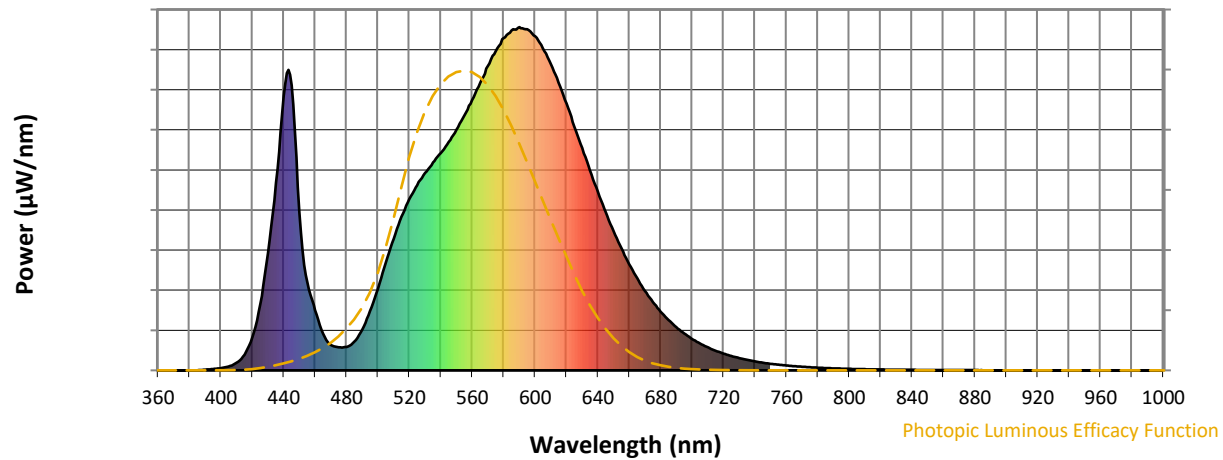
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-5

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

REPORT NUMBER: SP1-2407-184-5

Photopic Flux vs. Wavelength

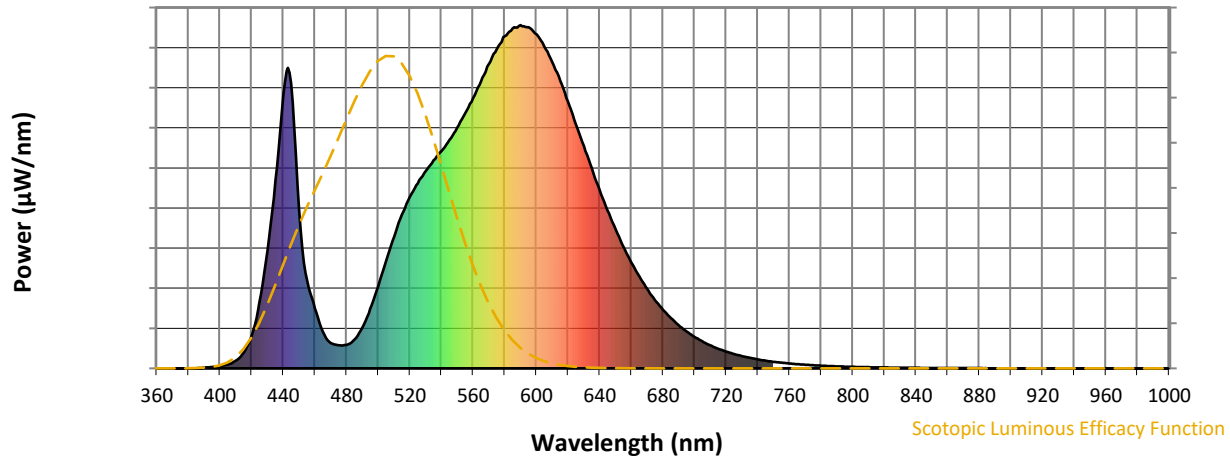


Photopic Lumens: NR

λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

Scotopic Flux vs. Wavelength



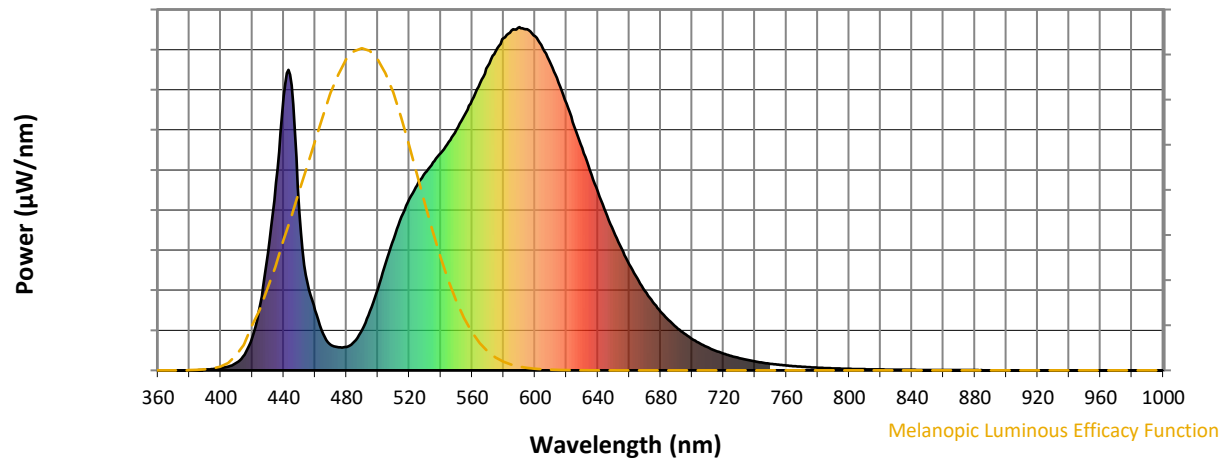
Scotopic Lumens: NR

S/P: 1.29

λ (nm)	Power W [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /nm	Lumens (Φ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.36

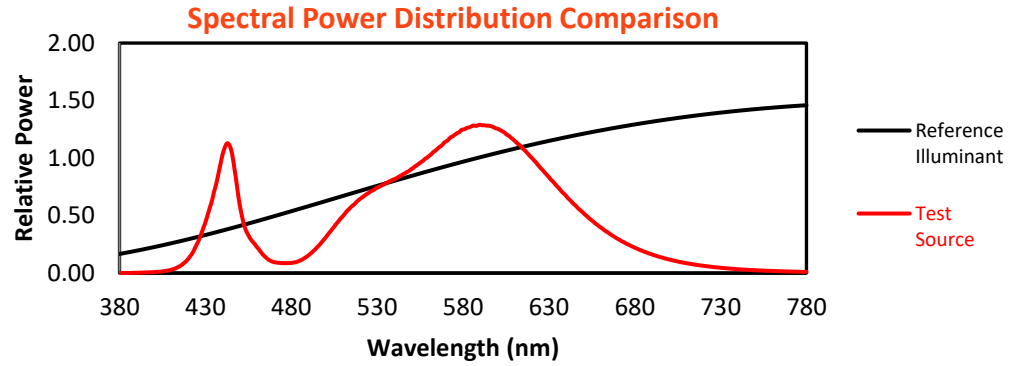
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

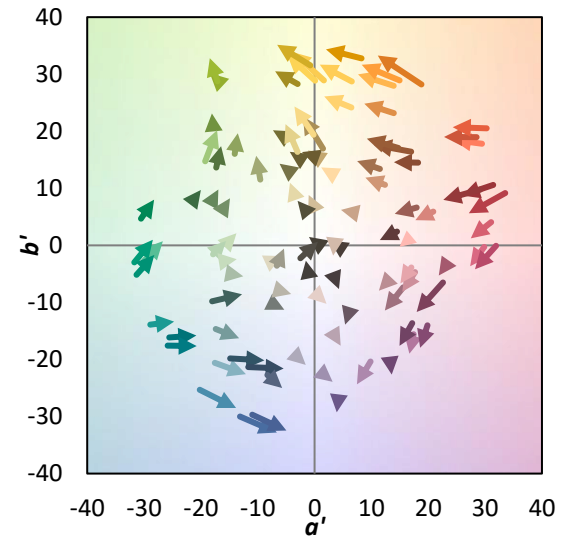
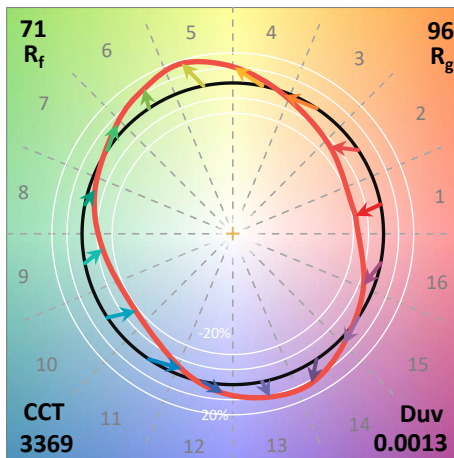
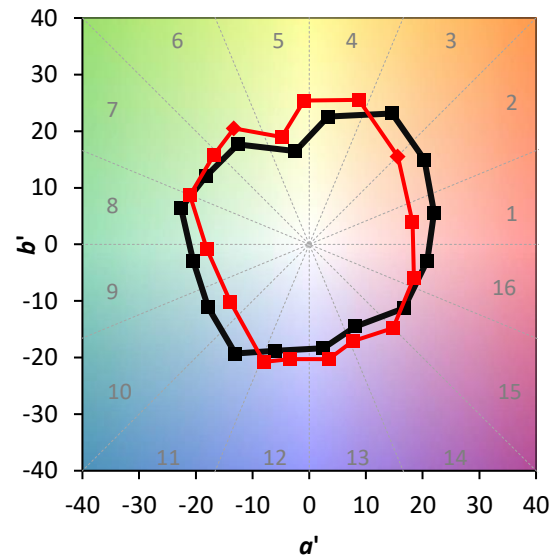
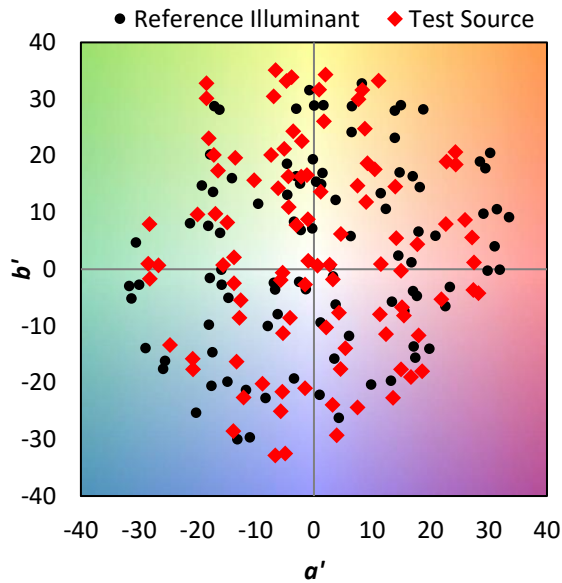
TM-30-18

Summary

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

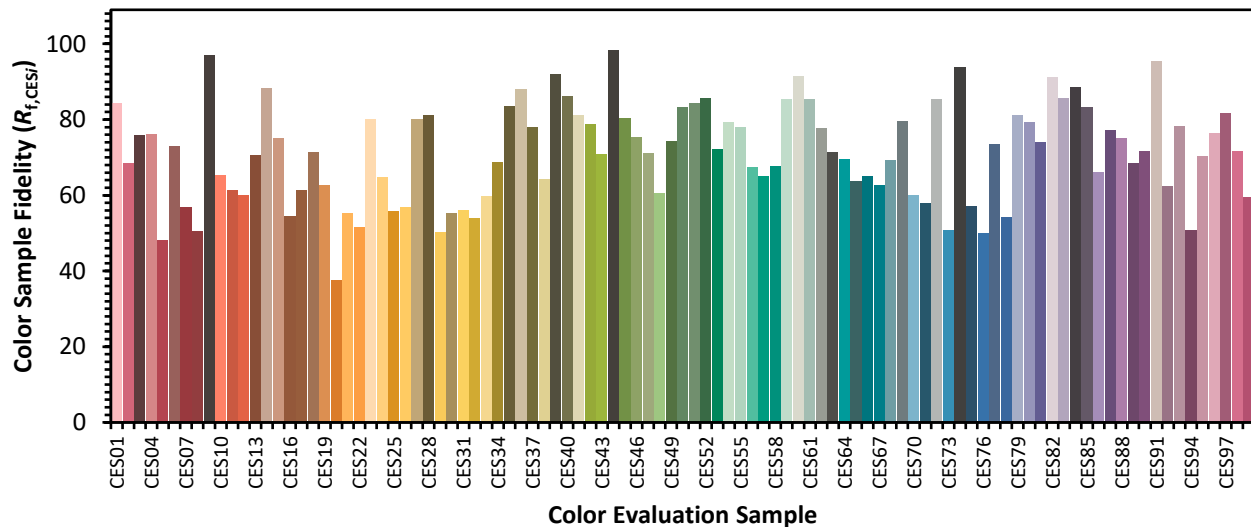


Color Vector Graphics

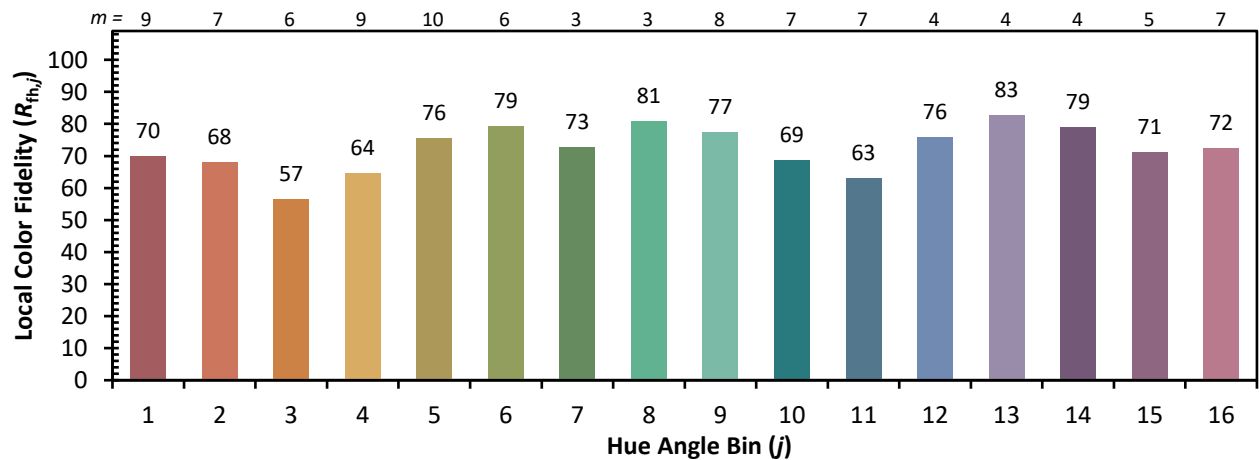
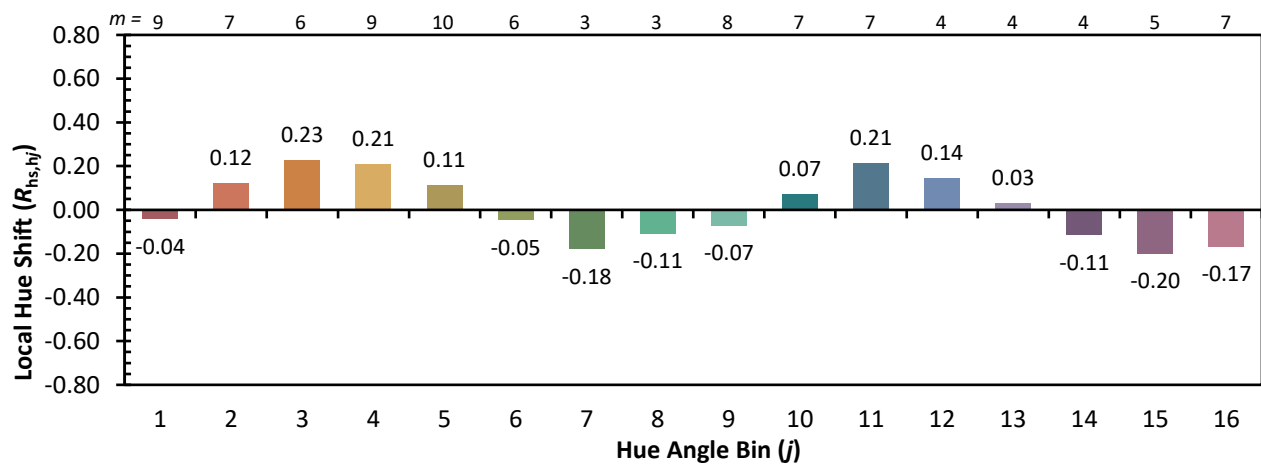
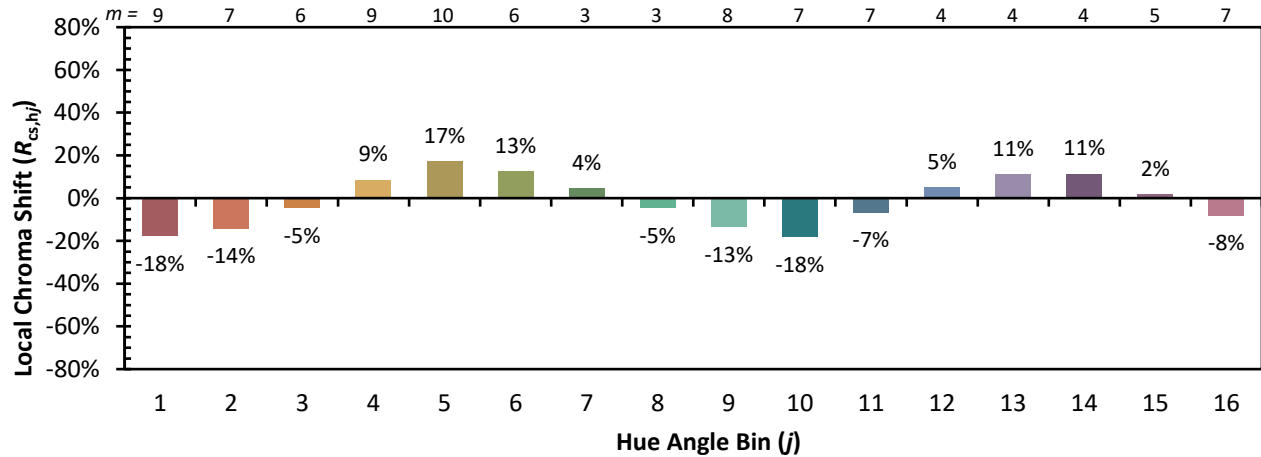


Individual Sample Fidelity Index ($R_{f,i}$)

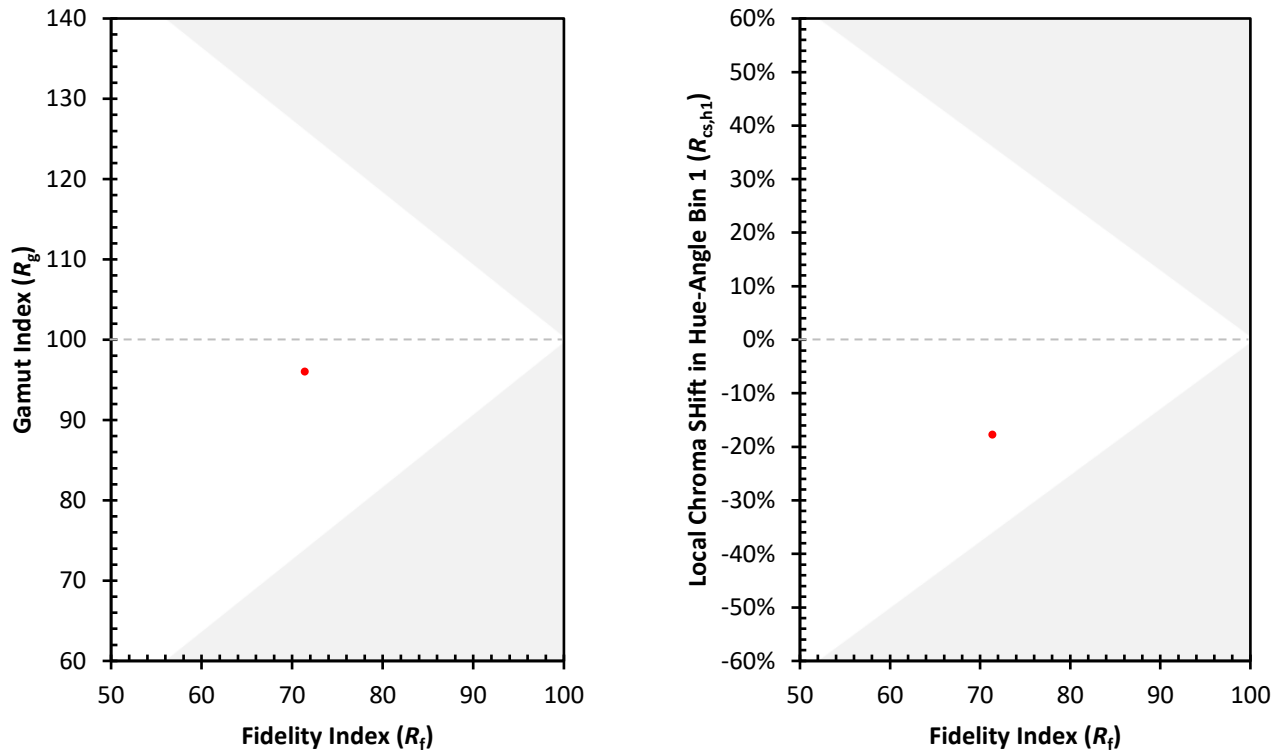
CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82 = 91
CES08 = 39	CES33 = 60	CES58 = 68	CES83 = 86
CES09 = 29	CES34 = 69	CES59 = 85	CES84 = 89
CES10 = 75	CES35 = 83	CES60 = 91	CES85 = 83
CES11 = 58	CES36 = 88	CES61 = 85	CES86 = 66
CES12 = 64	CES37 = 78	CES62 = 78	CES87 = 77
CES13 = 43	CES38 = 64	CES63 = 71	CES88 = 75
CES14 = 74	CES39 = 92	CES64 = 70	CES89 = 68
CES15 = 71	CES40 = 86	CES65 = 64	CES90 = 72
CES16 = 47	CES41 = 81	CES66 = 65	CES91 = 95
CES17 = 50	CES42 = 79	CES67 = 63	CES92 = 62
CES18 = 56	CES43 = 71	CES68 = 69	CES93 = 78
CES19 = 72	CES44 = 98	CES69 = 80	CES94 = 51
CES20 = 65	CES45 = 80	CES70 = 60	CES95 = 70
CES21 = 87	CES46 = 75	CES71 = 58	CES96 = 76
CES22 = 79	CES47 = 71	CES72 = 85	CES97 = 82
CES23 = 92	CES48 = 61	CES73 = 51	CES98 = 72
CES24 = 91	CES49 = 74	CES74 = 94	CES99 = 60
CES25 = 72	CES50 = 83	CES75 = 57	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)