

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: P1067984

Luminaire Tested: **NAV-SA5D-735-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067984
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA5D-735-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 5xLight Square PACKAGE
70CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24446.6 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 269.7
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



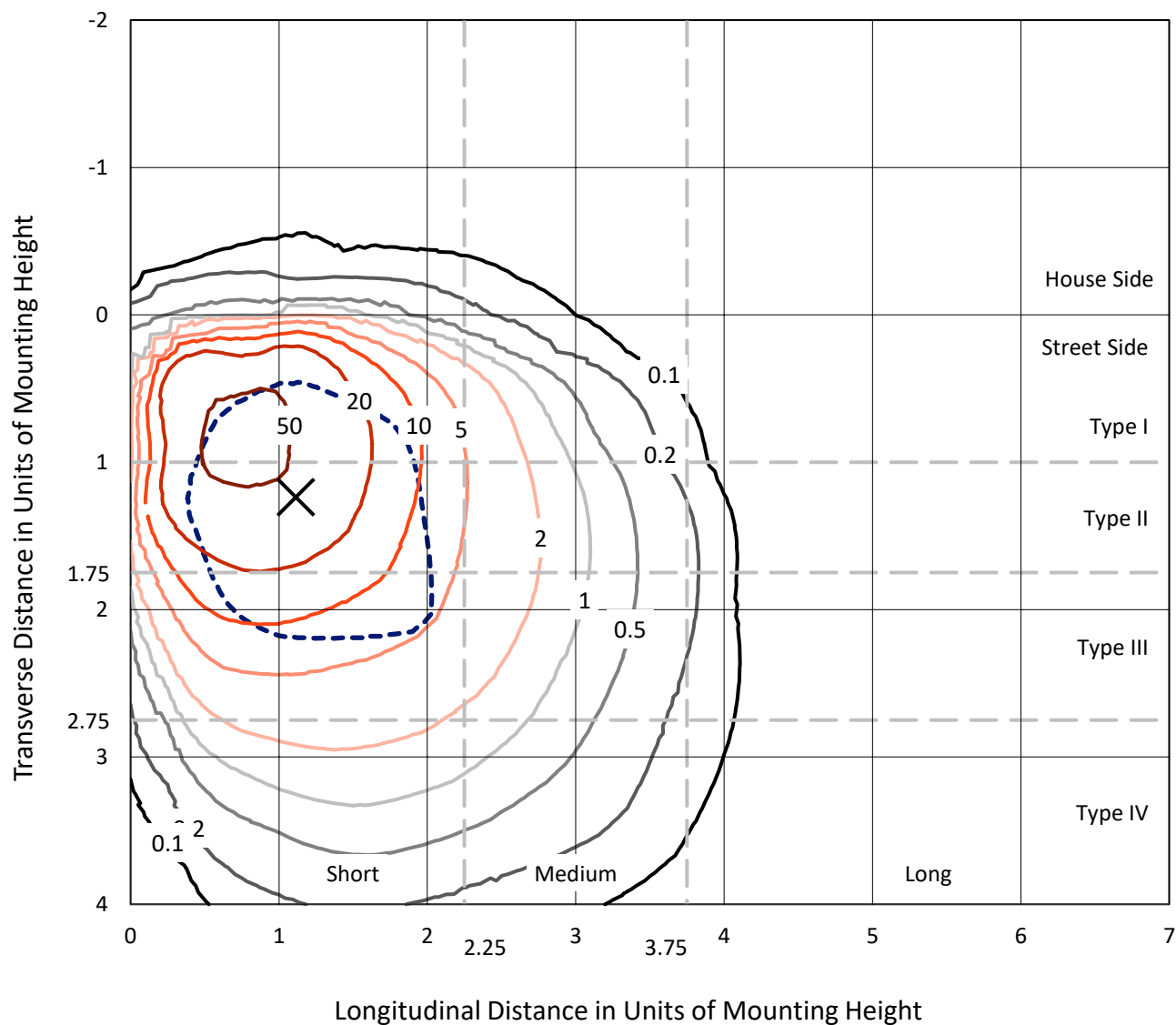
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

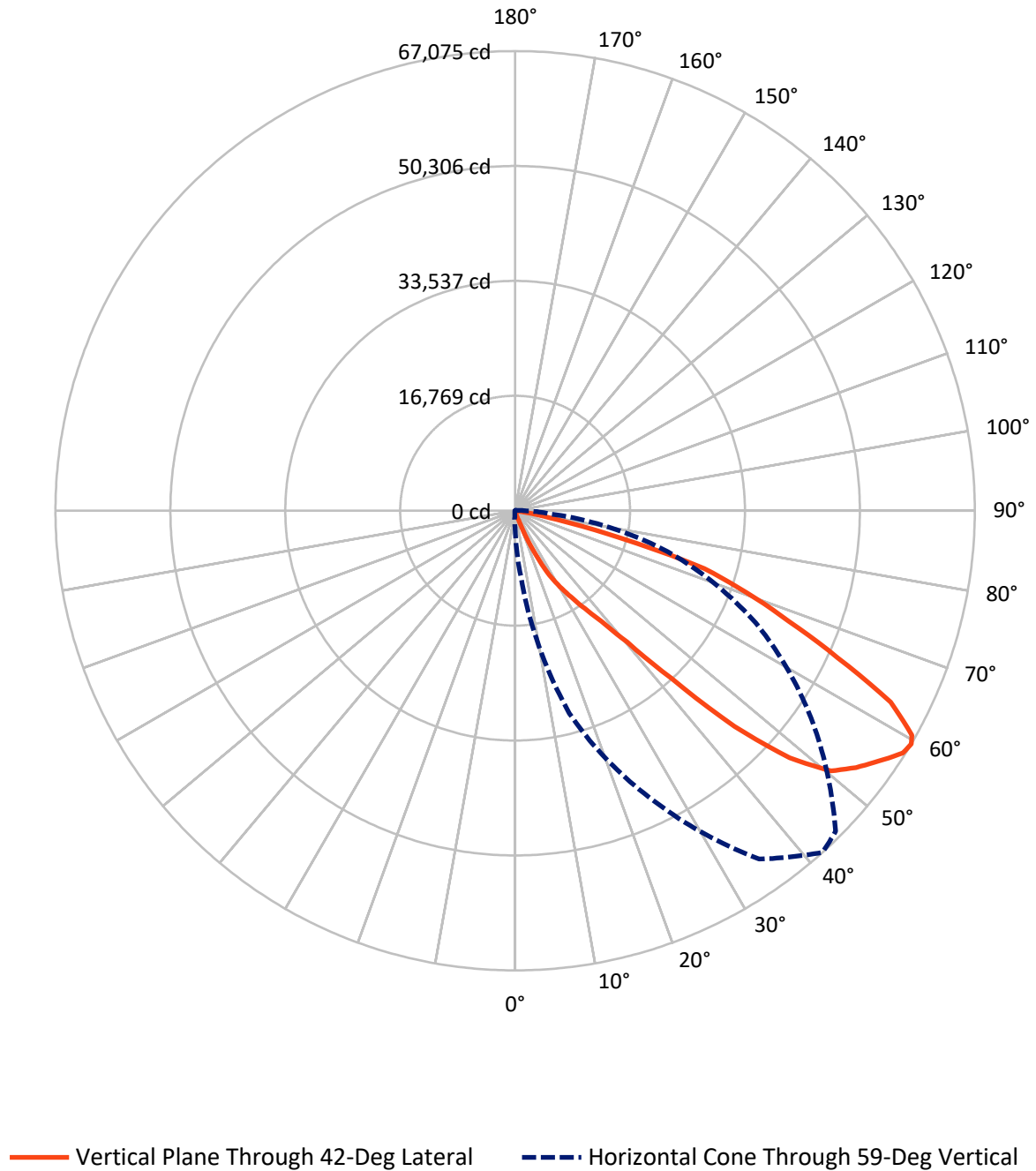


Based on 15 foot mounting height. Maximum calculated value = 72.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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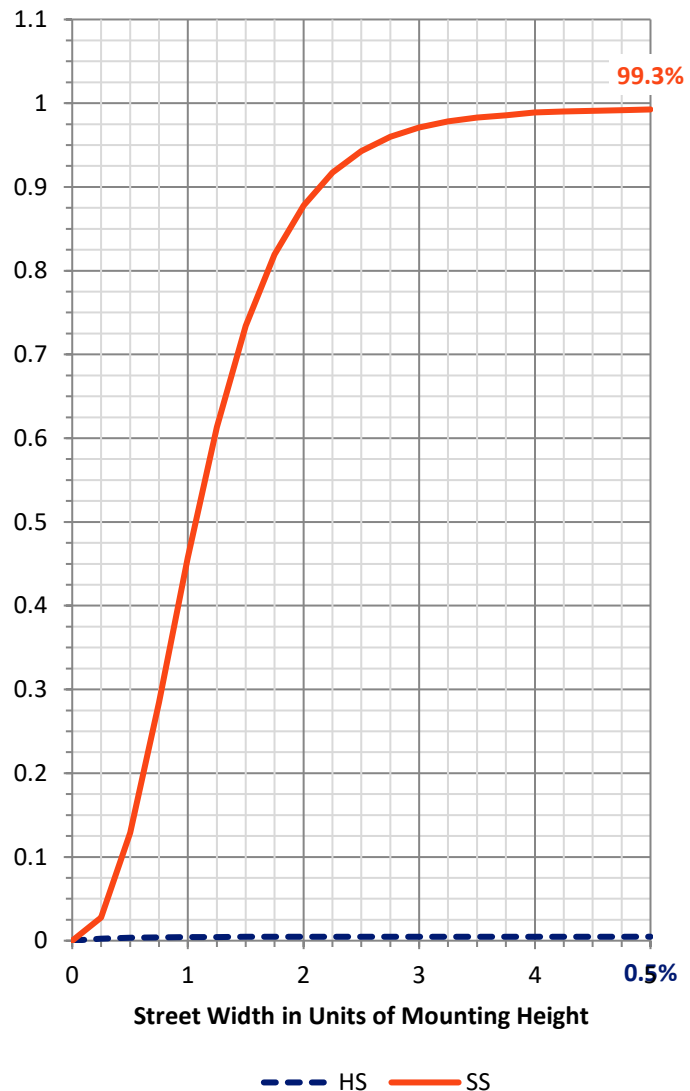
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	117.8	0.0	117.8
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	24328.8	0.0	24328.8
	% Fixture	99.5	0.0	99.5
Total	Lumens	24446.6	0.0	24446.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.2	0.0
10°-20°	35.6	0.1
20°-30°	456.0	1.9
30°-40°	1537.4	6.3
40°-50°	4643.5	19.0
50°-60°	8197.0	33.5
60°-70°	7217.6	29.5
70°-80°	2297.4	9.4
80°-90°	55.0	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°	24446.6	100.0
0°-180°	24446.6	100.0



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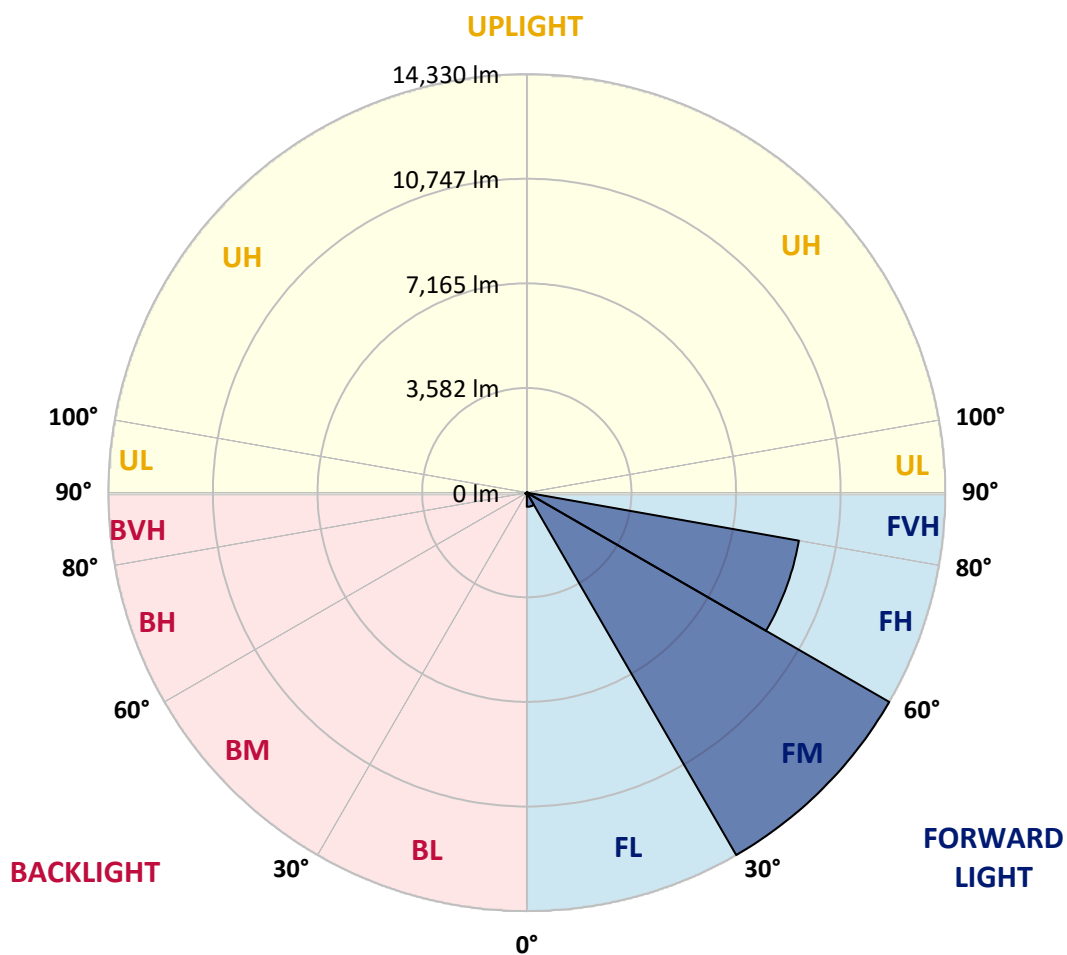
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	485.7	2.0			
FM	(30°-60°)	14329.7	58.6			
FH	(60°-80°)	9461.0	38.7			G4/12000
FVH	(80°-90°)	52.3	0.2			G1/100
BL	(0°-30°)	13.1	0.1	B0/110		
BM	(30°-60°)	48.1	0.2	B0/220		
BH	(60°-80°)	53.9	0.2	B0/110		G0/110
BVH	(80°-90°)	2.7	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
2.5°	107.3	107.3	99.6	92.0	84.3	76.6	76.6	76.6	69.0	69.0	61.3
5°	122.6	122.6	115.0	107.3	107.3	99.6	99.6	92.0	84.3	84.3	76.6
7.5°	130.3	130.3	130.3	130.3	122.6	122.6	122.6	115.0	107.3	99.6	92.0
10°	138.0	145.6	153.3	153.3	153.3	153.3	153.3	145.6	130.3	122.6	107.3
12.5°	153.3	161.0	176.3	191.6	191.6	199.3	191.6	184.0	168.6	145.6	122.6
15°	168.6	184.0	206.9	237.6	268.3	275.9	275.9	252.9	222.3	176.3	145.6
17.5°	191.6	214.6	275.9	375.6	482.9	567.2	567.2	505.9	352.6	229.9	168.6
20°	206.9	252.9	444.6	904.4	1379.7	1732.2	1663.3	1471.6	789.5	360.2	184.0
22.5°	229.9	321.9	942.8	2376.1	3679.1	4323.0	4169.7	3165.6	1770.6	643.8	222.3
25°	260.6	467.6	1870.2	4453.3	6837.0	7534.5	7434.9	5909.6	3226.9	1080.7	283.6
27.5°	321.9	689.8	2996.9	6752.7	10086.9	10684.7	10646.4	8653.6	5158.4	1739.9	367.9
30°	406.2	1004.1	4445.6	9174.8	12240.7	12846.2	12654.6	10661.8	6959.6	2659.7	475.2
32.5°	505.9	1402.7	5756.3	10960.7	14225.9	15023.0	14793.1	12409.3	8408.3	3441.5	705.2
35°	659.2	1793.6	7051.6	12539.6	16517.7	17529.4	17146.2	14210.6	9657.7	4323.0	850.8
37.5°	735.8	2023.5	8239.7	14256.5	19093.0	20472.7	20181.4	16487.0	10930.0	5449.7	1042.4
40°	743.5	2299.4	9473.7	16494.7	22733.8	25194.2	24673.0	20396.1	13298.4	6898.3	1341.3
42.5°	766.5	2713.3	11075.7	20311.8	29885.1	33418.6	32828.4	27585.7	18671.5	9803.3	1900.9
45°	873.8	3495.2	14340.9	27447.7	39703.7	44885.1	44203.0	37603.6	26175.3	15268.3	3242.2
47.5°	1249.4	5258.1	20066.5	35150.8	49744.6	53876.0	53707.3	45498.3	32974.0	20871.3	5495.7
50°	2008.2	8071.0	26581.6	41627.6	56137.1	59685.9	59264.3	48794.2	36852.4	24696.0	7044.0
52.5°	2682.7	10761.4	30674.6	44011.3	58045.6	62276.6	61763.1	49997.6	37871.8	25822.8	7473.2
55°	2851.3	11734.8	31893.3	44747.2	59310.3	64468.7	63725.2	50802.4	38002.1	25017.9	6760.4
57.5°	2767.0	10815.0	31103.8	45467.7	61073.2	66722.2	65733.4	52373.7	38439.0	23653.6	5626.0
59°	2621.4	9680.7	30613.3	46042.5	62046.7	67074.8	66147.3	52718.6	38730.3	23032.8	4936.1
60°	2452.7	8914.2	30230.0	46418.1	61985.3	66522.9	65564.8	52557.6	38845.3	22496.2	4606.6
62.5°	1893.2	7112.9	29678.2	46149.8	58114.6	61487.1	60942.9	48617.9	37159.0	20779.3	3633.1
65°	1471.6	5442.0	27654.6	41160.0	49453.4	51722.2	51553.5	41167.7	31272.4	17912.7	2621.4
67.5°	1165.1	3970.4	23385.3	33334.3	39788.0	43014.9	42892.3	33418.6	23737.9	13689.4	1885.5
70°	950.4	2828.3	16034.8	25132.9	31824.3	35886.6	35710.4	26895.8	17590.7	8684.2	1372.0
72.5°	804.8	1808.9	9726.6	18947.4	26558.6	28881.0	28367.5	21699.1	12792.6	4729.2	1088.4
75°	682.2	1111.4	4821.2	11811.5	15820.2	15804.8	15291.3	11489.6	6867.7	2314.8	866.1
77.5°	551.9	781.8	1893.2	3242.2	4989.8	6177.8	6078.2	4070.0	2054.2	674.5	536.5
80°	360.2	367.9	505.9	889.1	1372.0	1517.6	1724.6	1241.7	597.9	321.9	222.3
82.5°	161.0	176.3	229.9	291.3	291.3	268.3	237.6	176.3	130.3	107.3	53.7
85°	38.3	53.7	38.3	46.0	38.3	30.7	30.7	15.3	0.0	0.0	0.0
87.5°	7.7	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°	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
2.5°	61.3	61.3	61.3	53.7	53.7	53.7	46.0	46.0	46.0	38.3	38.3
5°	76.6	69.0	61.3	61.3	53.7	53.7	46.0	38.3	38.3	38.3	30.7
7.5°	84.3	76.6	69.0	61.3	53.7	46.0	46.0	38.3	30.7	30.7	30.7
10°	99.6	92.0	76.6	61.3	53.7	46.0	38.3	38.3	30.7	23.0	23.0
12.5°	115.0	99.6	84.3	69.0	53.7	46.0	38.3	38.3	30.7	23.0	15.3
15°	130.3	115.0	92.0	69.0	53.7	46.0	38.3	38.3	23.0	15.3	7.7
17.5°	145.6	122.6	92.0	76.6	53.7	46.0	38.3	30.7	15.3	7.7	0.0
20°	153.3	130.3	99.6	76.6	53.7	46.0	38.3	23.0	7.7	0.0	0.0
22.5°	168.6	145.6	107.3	76.6	53.7	38.3	23.0	7.7	0.0	0.0	0.0
25°	199.3	153.3	107.3	76.6	53.7	38.3	15.3	0.0	0.0	0.0	0.0
27.5°	222.3	168.6	107.3	76.6	53.7	30.7	7.7	0.0	0.0	0.0	0.0
30°	260.6	184.0	115.0	76.6	53.7	23.0	7.7	0.0	0.0	0.0	0.0
32.5°	321.9	199.3	115.0	76.6	46.0	23.0	0.0	0.0	0.0	0.0	0.0
35°	390.9	229.9	115.0	76.6	46.0	23.0	0.0	0.0	0.0	0.0	0.0
37.5°	398.6	245.3	115.0	76.6	46.0	15.3	0.0	0.0	0.0	0.0	0.0
40°	413.9	229.9	122.6	76.6	46.0	15.3	0.0	0.0	0.0	0.0	0.0
42.5°	475.2	214.6	130.3	76.6	46.0	15.3	0.0	0.0	0.0	0.0	0.0
45°	705.2	222.3	130.3	84.3	46.0	23.0	0.0	0.0	0.0	0.0	0.0
47.5°	1226.4	229.9	122.6	84.3	46.0	23.0	0.0	0.0	0.0	0.0	0.0
50°	1571.3	268.3	122.6	92.0	53.7	15.3	0.0	0.0	0.0	0.0	0.0
52.5°	1670.9	314.3	122.6	99.6	69.0	7.7	0.0	0.0	0.0	0.0	0.0
55°	1624.9	367.9	130.3	107.3	84.3	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1502.3	398.6	138.0	115.0	92.0	0.0	0.0	0.0	0.0	0.0	0.0
59°	1372.0	421.6	161.0	122.6	92.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	1264.7	444.6	168.6	130.3	92.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1019.4	475.2	184.0	153.3	76.6	0.0	0.0	0.0	0.0	0.0	0.0
65°	889.1	498.2	191.6	168.6	69.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	812.5	513.5	206.9	176.3	61.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	751.2	505.9	222.3	168.6	53.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	682.2	482.9	268.3	153.3	46.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	613.2	436.9	291.3	138.0	30.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	444.6	367.9	268.3	122.6	15.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	191.6	199.3	191.6	92.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	38.3	46.0	38.3	23.0	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°	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
2.5°	38.3	38.3	38.3	38.3	46.0	46.0	61.3	76.6	92.0	99.6	99.6
5°	30.7	30.7	30.7	30.7	30.7	38.3	46.0	61.3	84.3	92.0	92.0
7.5°	23.0	23.0	23.0	23.0	23.0	23.0	38.3	53.7	76.6	84.3	92.0
10°	23.0	15.3	15.3	7.7	7.7	15.3	23.0	46.0	69.0	76.6	84.3
12.5°	15.3	7.7	7.7	0.0	0.0	7.7	15.3	38.3	61.3	69.0	76.6
15°	7.7	0.0	0.0	0.0	0.0	0.0	7.7	30.7	53.7	61.3	76.6
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.0	46.0	61.3	69.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.3	38.3	53.7	61.3
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	30.7	46.0	53.7
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.0	30.7	38.3
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.3	23.0	30.7
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.3	23.0	30.7
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	15.3	23.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	15.3	23.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	15.3	15.3
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	15.3
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	15.3
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	15.3
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	15.3
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	15.3
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	7.7
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	7.7
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	7.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	15.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	15.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	7.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	7.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	7.7
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°	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
2.5°	107.3	107.3	99.6	92.0	92.0	92.0	99.6	107.3	107.3	107.3
5°	99.6	99.6	92.0	92.0	92.0	92.0	99.6	115.0	122.6	122.6
7.5°	99.6	99.6	92.0	92.0	92.0	92.0	99.6	115.0	122.6	130.3
10°	92.0	92.0	92.0	92.0	84.3	92.0	99.6	115.0	138.0	138.0
12.5°	92.0	92.0	92.0	92.0	84.3	92.0	107.3	122.6	145.6	153.3
15°	92.0	92.0	92.0	84.3	84.3	92.0	107.3	130.3	153.3	168.6
17.5°	84.3	92.0	92.0	84.3	84.3	92.0	107.3	130.3	168.6	191.6
20°	76.6	84.3	92.0	84.3	84.3	84.3	107.3	130.3	176.3	206.9
22.5°	69.0	76.6	84.3	84.3	76.6	84.3	107.3	138.0	191.6	229.9
25°	61.3	69.0	69.0	76.6	76.6	84.3	107.3	138.0	199.3	260.6
27.5°	46.0	53.7	61.3	69.0	69.0	84.3	107.3	145.6	214.6	321.9
30°	38.3	46.0	53.7	61.3	69.0	84.3	107.3	145.6	229.9	406.2
32.5°	38.3	46.0	53.7	61.3	69.0	76.6	107.3	153.3	252.9	505.9
35°	30.7	38.3	46.0	61.3	61.3	76.6	107.3	153.3	275.9	659.2
37.5°	30.7	38.3	46.0	61.3	61.3	76.6	107.3	153.3	337.3	735.8
40°	23.0	30.7	38.3	61.3	61.3	76.6	115.0	161.0	344.9	743.5
42.5°	23.0	30.7	38.3	53.7	61.3	76.6	115.0	161.0	321.9	766.5
45°	23.0	30.7	38.3	61.3	69.0	84.3	115.0	168.6	314.3	873.8
47.5°	23.0	30.7	38.3	61.3	76.6	84.3	115.0	168.6	321.9	1249.4
50°	23.0	30.7	38.3	61.3	84.3	84.3	115.0	168.6	352.6	2008.2
52.5°	15.3	23.0	30.7	53.7	69.0	92.0	122.6	161.0	375.6	2682.7
55°	15.3	15.3	23.0	46.0	61.3	99.6	130.3	161.0	436.9	2851.3
57.5°	15.3	15.3	23.0	38.3	53.7	107.3	138.0	161.0	505.9	2767.0
59°	15.3	15.3	15.3	30.7	46.0	107.3	145.6	176.3	521.2	2452.7
60°	15.3	15.3	15.3	30.7	38.3	107.3	161.0	214.6	536.5	1893.2
62.5°	7.7	7.7	7.7	23.0	38.3	92.0	184.0	229.9	544.2	1471.6
65°	15.3	15.3	15.3	30.7	38.3	92.0	191.6	237.6	544.2	1165.1
67.5°	15.3	15.3	15.3	30.7	46.0	92.0	191.6	245.3	536.5	950.4
70°	15.3	15.3	15.3	30.7	46.0	84.3	176.3	252.9	513.5	804.8
72.5°	15.3	15.3	15.3	23.0	38.3	76.6	168.6	275.9	467.6	682.2
75°	15.3	15.3	15.3	15.3	30.7	61.3	153.3	306.6	413.9	551.9
77.5°	23.0	15.3	15.3	15.3	23.0	53.7	145.6	298.9	344.9	360.2
80°	23.0	15.3	15.3	7.7	15.3	38.3	115.0	229.9	176.3	161.0
82.5°	15.3	15.3	15.3	7.7	7.7	23.0	53.7	69.0	53.7	38.3
85°	15.3	15.3	15.3	7.7	7.7	7.7	7.7	7.7	7.7	7.7
87.5°	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

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

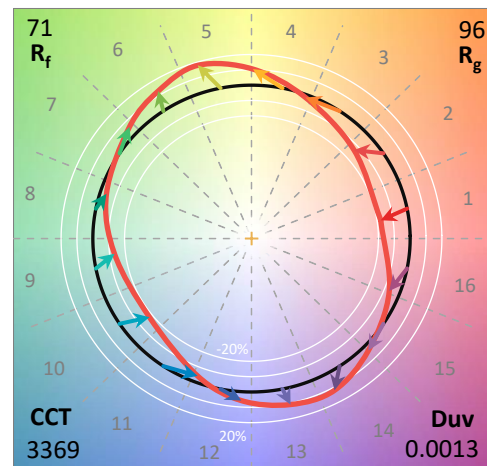
Test Information

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
 CIE u' : 0.2386
 CIE v' : 0.5156
 Duv: 0.0013
 CIE x: 0.4143
 CIE y: 0.3980
 CIE z: 0.1877
 Peak Wavelength (nm): 590
 Dominant Wavelength (nm): 580
 Purity: 43.80166
 R_f: 71.4
 R_g: 96

CRI (Ra): 70.1
 R1: 66.6
 R2: 77.6
 R3: 88.5
 R4: 69.5
 R5: 66.4
 R6: 69.6
 R7: 77.5
 R8: 44.9
 R9: -40.2
 R10: 49.1
 R11: 66.3
 R12: 45.7
 R13: 68.0
 R14: 93.4
 R15: 57.6



Test Conditions

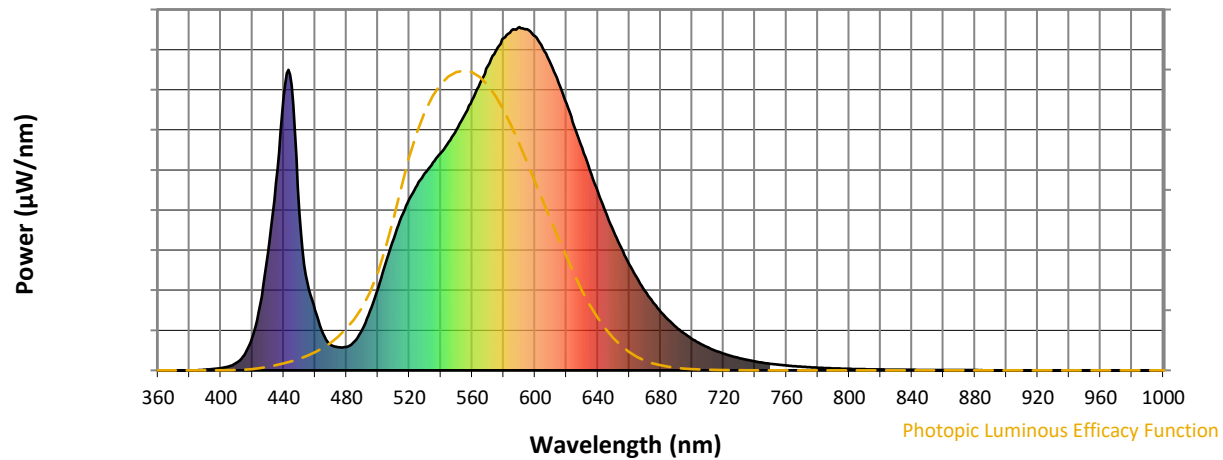
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

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

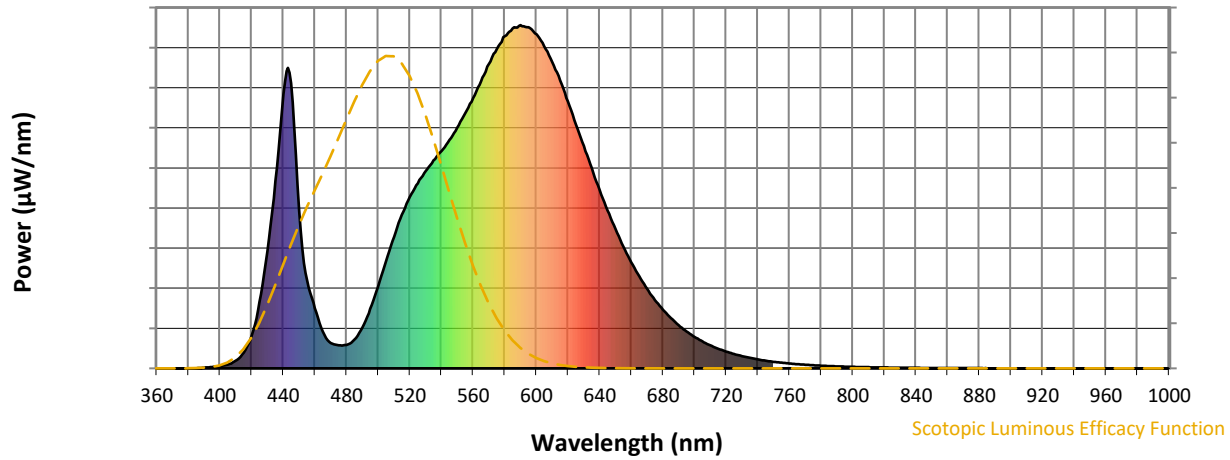


Photopic Lumens: NR

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



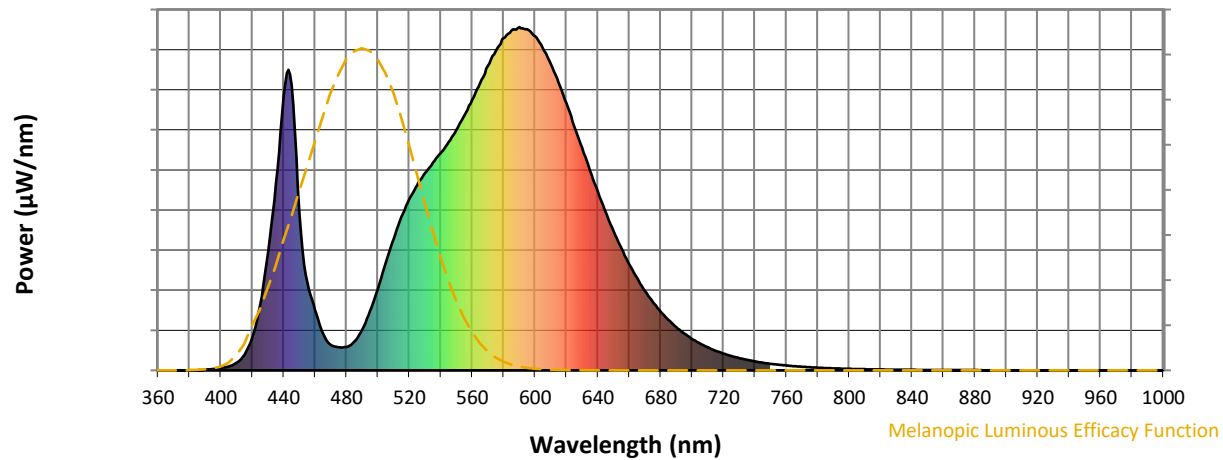
Scotopic Lumens: NR

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			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.36

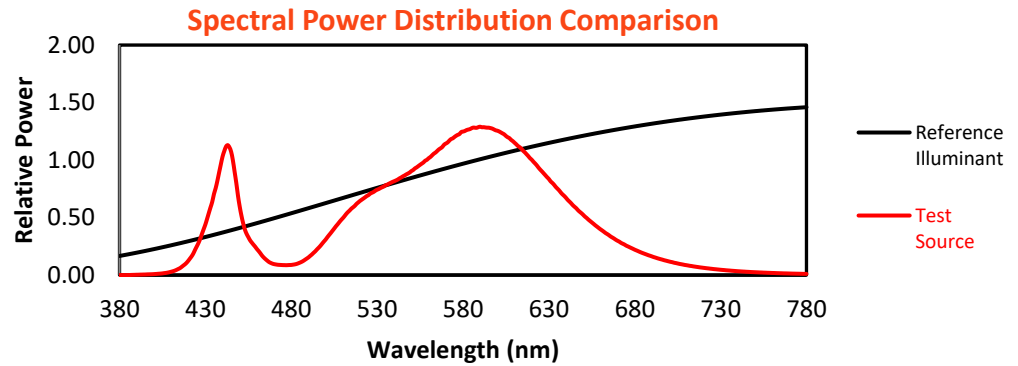
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	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

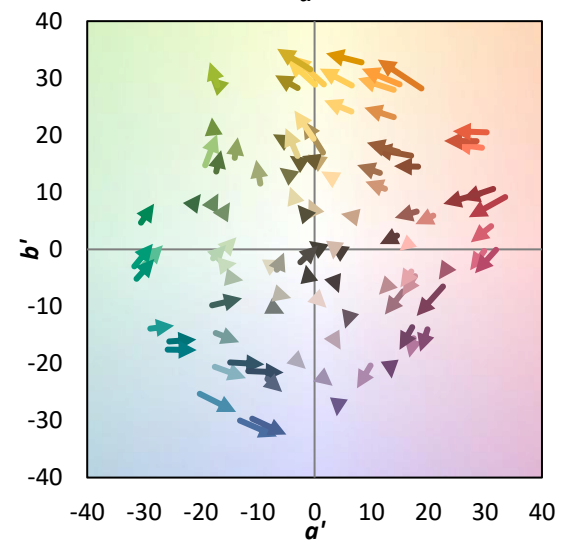
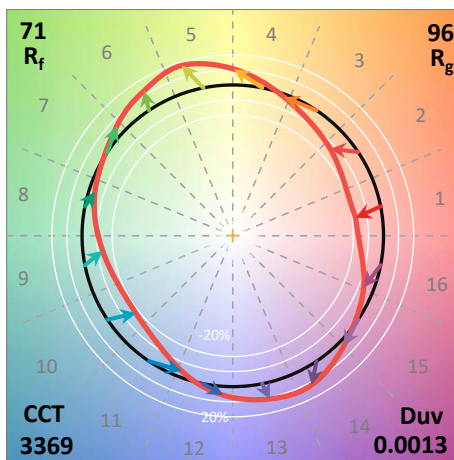
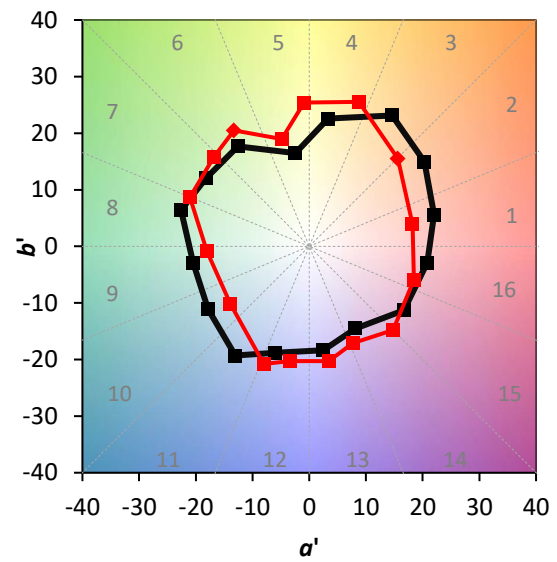
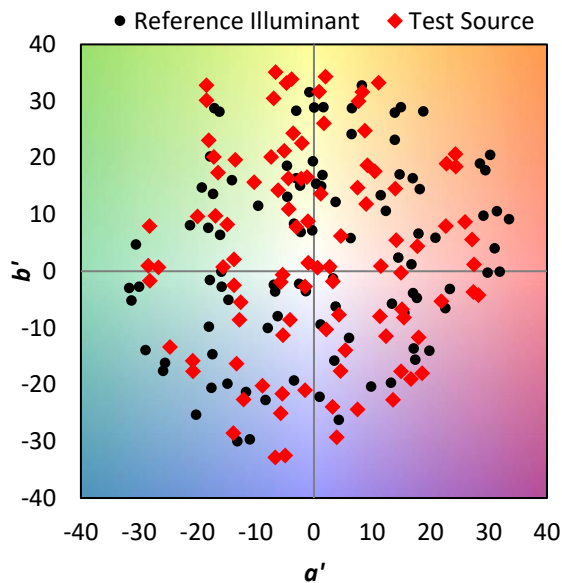
TM-30-18

Summary

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

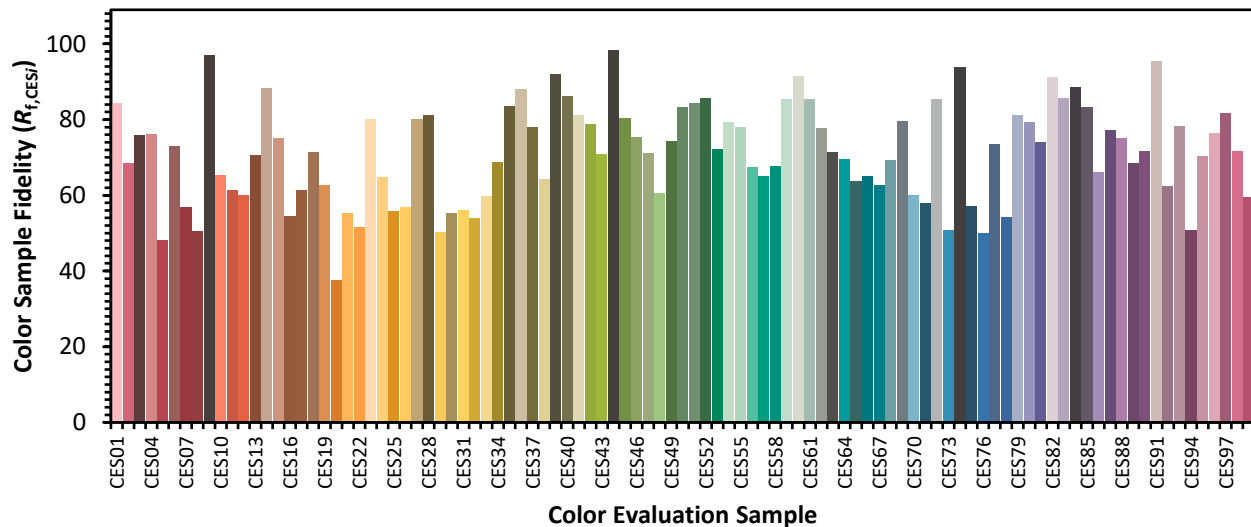


Color Vector Graphics

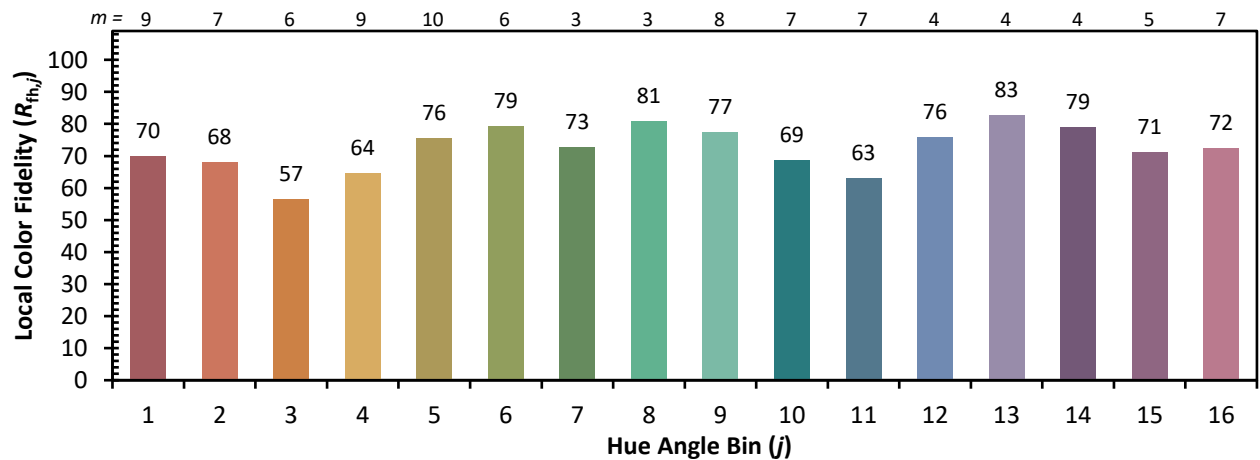
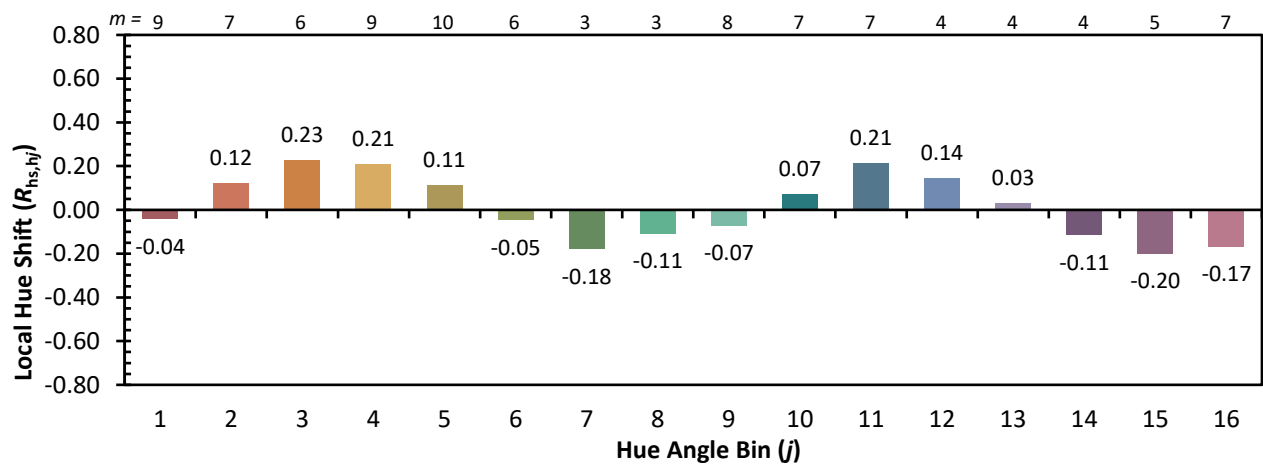
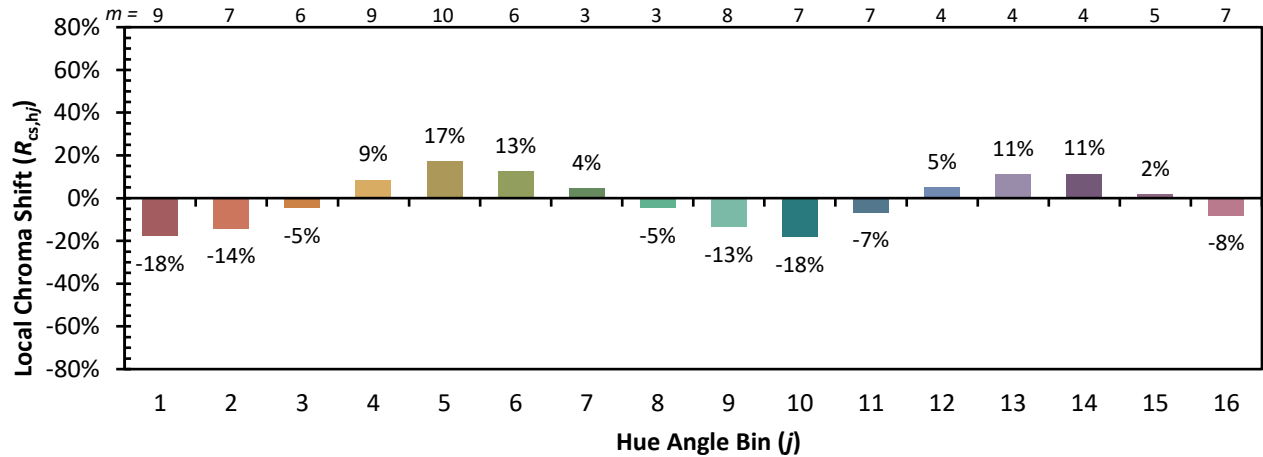


Individual Sample Fidelity Index ($R_{f,i}$)

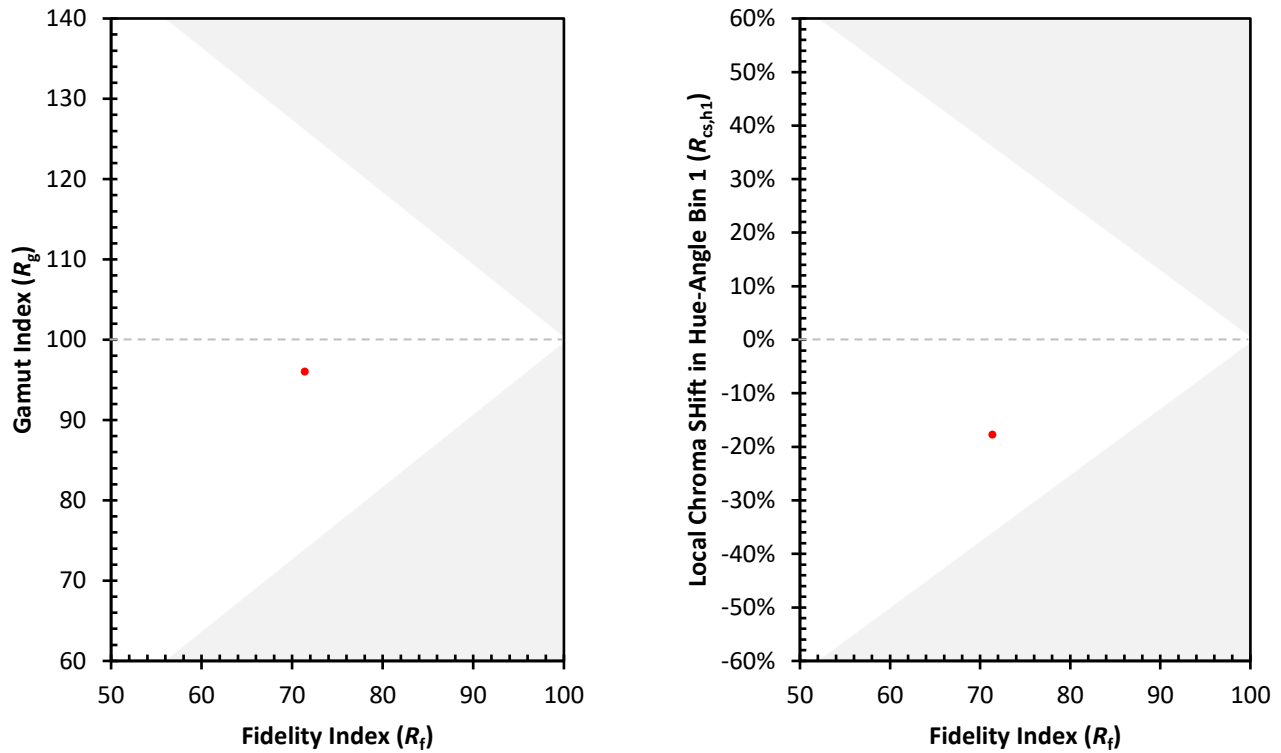
CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82 = 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)