

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: STREETWORKS

Report Number: P1065113

Luminaire Tested: **GLAN-SA5A-740-U-LBC**

Issue Date: 08/07/2025



Test Information

Test Method: LM-79-08
Report Number: P1065113
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5A-740-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 5xLight Square PACKAGE
70CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16220.9 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 136.6
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

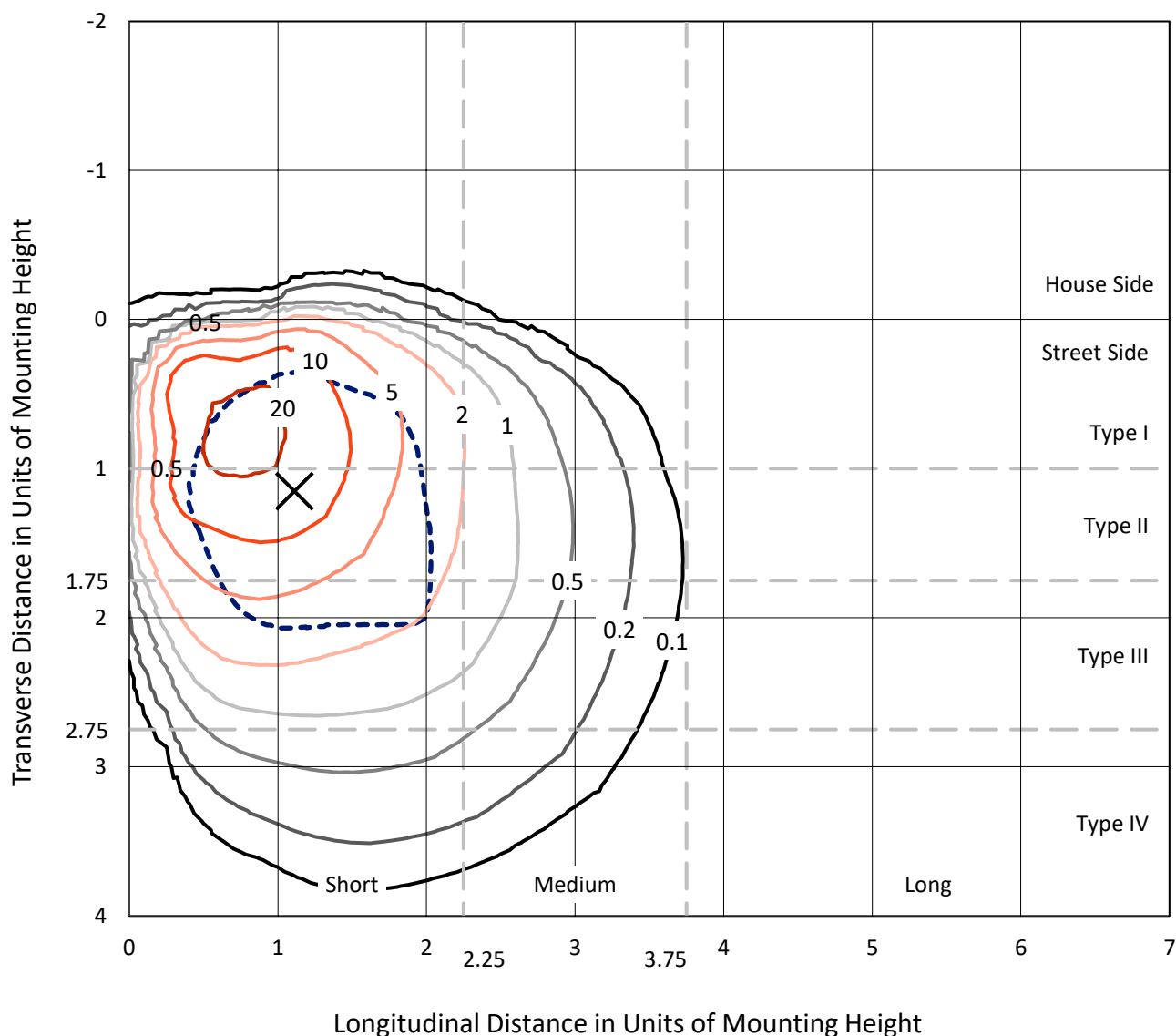
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

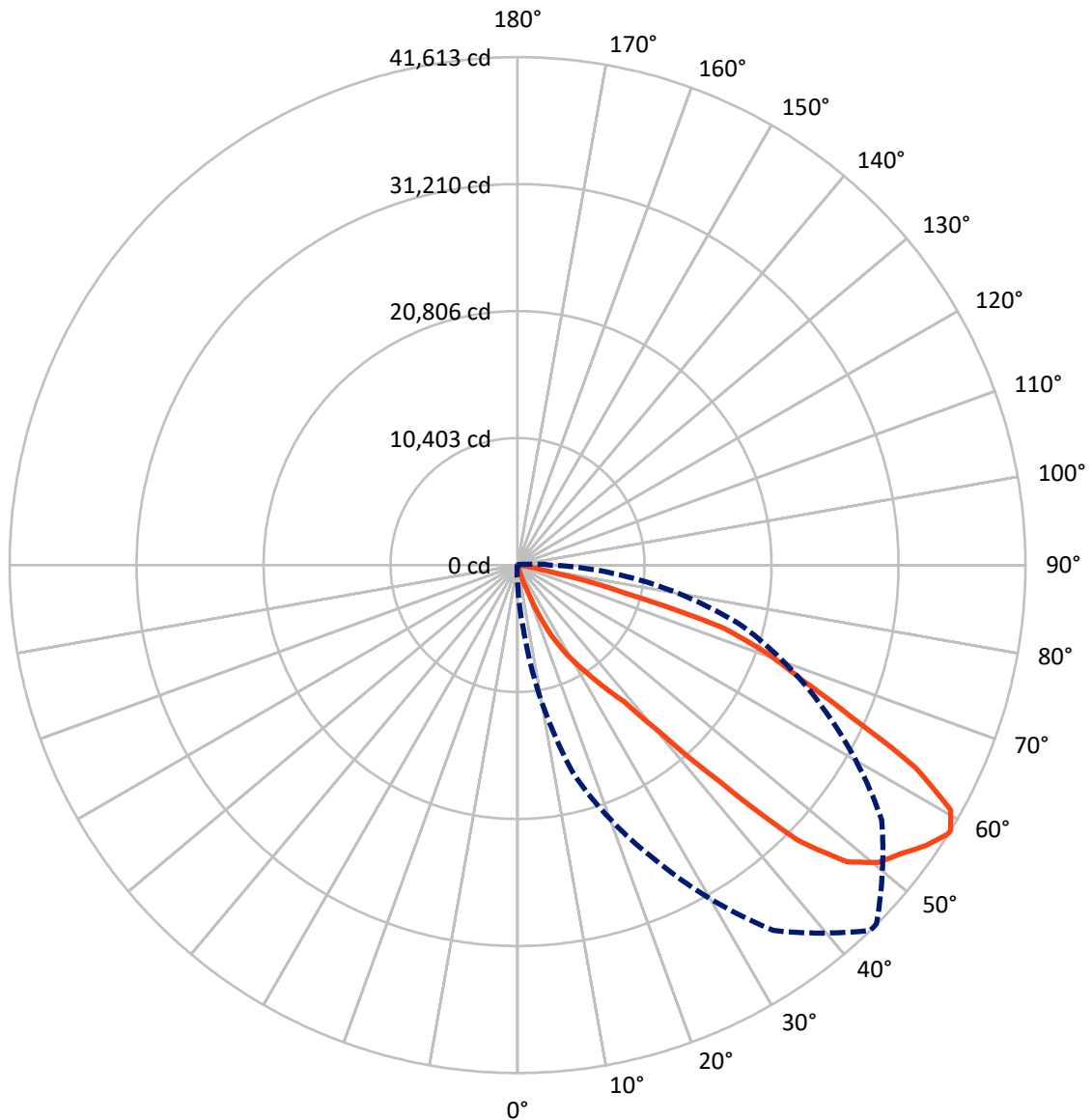


Based on 20 foot mounting height. Maximum calculated value = 28.2 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	110.8	0.0	110.8
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	16110.1	0.0	16110.1
	% Fixture	99.3	0.0	99.3
Total	Lumens	16220.9	0.0	16220.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.3	0.0
10°-20°	35.6	0.2
20°-30°	384.3	2.4
30°-40°	1136.4	7.0
40°-50°	3387.2	20.9
50°-60°	5374.6	33.1
60°-70°	4483.1	27.6
70°-80°	1382.7	8.5
80°-90°	30.7	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°	16220.9	100.0
0°-180°	16220.9	100.0



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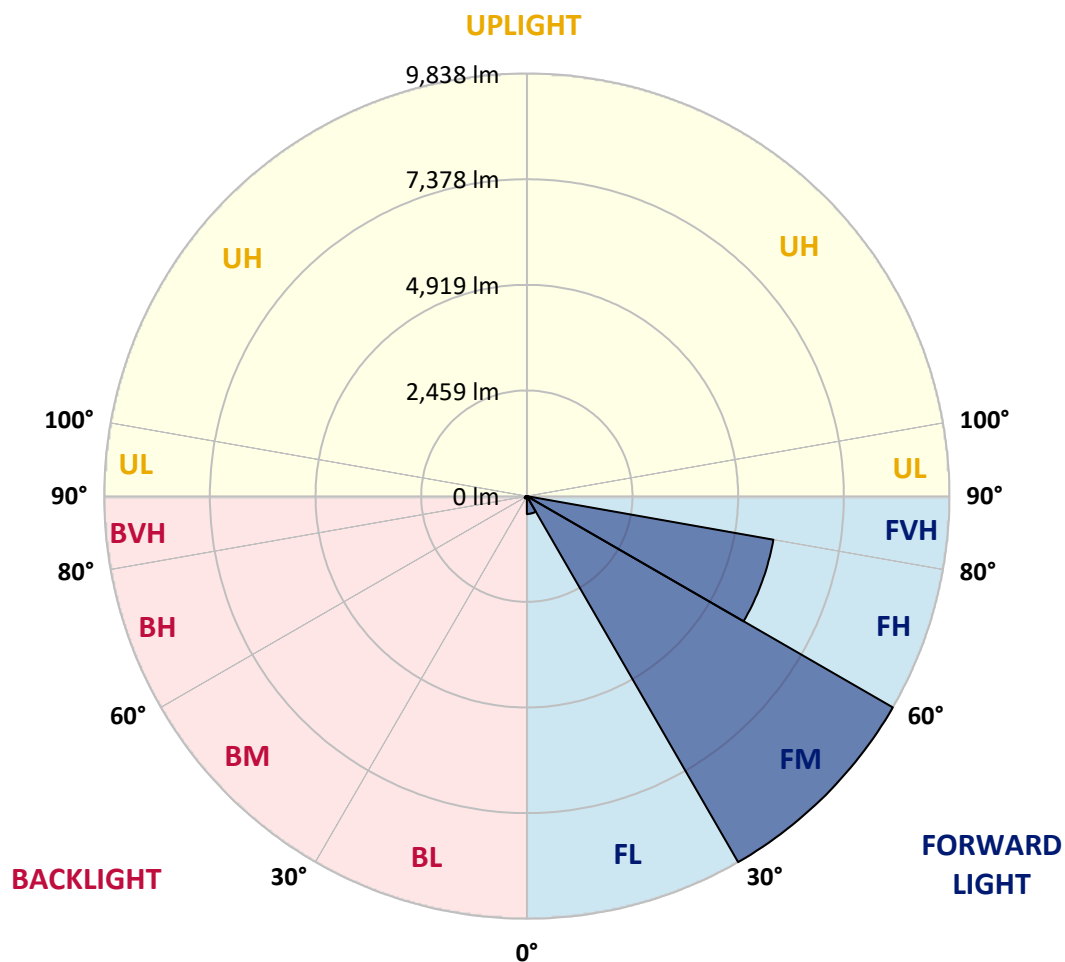
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	415.4	2.6			
FM	(30°-60°)	9837.6	60.6			
FH	(60°-80°)	5827.9	35.9			G3/7500
FVH	(80°-90°)	29.2	0.2			G1/100
BL	(0°-30°)	10.8	0.1	B0/110		
BM	(30°-60°)	60.6	0.4	B0/220		
BH	(60°-80°)	37.8	0.2	B0/110		G0/110
BVH	(80°-90°)	1.5	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
2.5°	91.9	91.9	88.2	83.3	78.4	73.5	72.3	69.8	68.6	67.4
5°	95.6	95.6	94.4	90.7	85.8	82.1	82.1	78.4	76.0	73.5
7.5°	98.0	99.3	101.7	100.5	98.0	94.4	94.4	91.9	88.2	82.1
10°	101.7	105.4	110.3	112.7	114.0	114.0	112.7	111.5	105.4	96.8
12.5°	105.4	112.7	125.0	137.2	144.6	154.4	153.2	150.7	134.8	116.4
15°	112.7	123.8	149.5	185.0	240.2	274.5	288.0	275.7	223.0	156.8
17.5°	121.3	139.7	216.9	387.2	634.7	752.4	823.4	765.8	507.3	297.8
20°	129.9	170.3	403.1	1003.6	1646.9	2031.6	2138.2	1971.6	1265.8	567.3
22.5°	144.6	238.9	817.3	2074.5	3548.6	4125.7	4234.8	3701.8	2390.7	1120.0
25°	175.2	346.8	1409.1	3380.7	5296.0	6270.1	6224.8	5526.3	3878.2	1789.0
27.5°	219.3	504.8	2130.9	4803.4	6969.8	7828.7	7931.7	7067.8	5169.7	2630.8
30°	283.1	699.7	2905.3	5942.9	8311.5	9240.3	9257.5	8364.2	6325.2	3369.7
32.5°	344.3	883.5	3582.9	7044.5	9633.7	10651.9	10727.9	9628.8	7187.9	4139.2
35°	390.9	1003.6	4269.1	8012.5	10966.9	12369.9	12365.0	11060.0	8209.8	4826.6
37.5°	394.6	1123.6	4890.4	9002.6	12655.4	14226.3	14381.9	12943.3	9445.0	5677.0
40°	386.0	1258.4	5677.0	10546.6	15697.9	18108.2	18245.4	16431.9	11922.6	7132.7
42.5°	395.8	1492.5	6953.8	13397.9	20750.0	24211.6	24476.3	22569.7	16477.2	10103.0
45°	447.3	1932.4	9628.8	18168.2	27951.4	32171.5	32083.3	29337.3	21776.9	14624.5
47.5°	617.6	3009.5	13594.0	22811.1	32553.8	36311.9	36387.9	33031.7	24869.7	18100.8
50°	949.6	4604.9	16925.7	25265.4	34532.7	38303.1	38232.1	34353.8	26044.8	19812.6
52.5°	1235.2	5759.1	18597.1	26126.9	34786.4	39287.1	39282.2	34701.8	26227.3	19959.7
55°	1306.2	5846.1	18610.6	26173.4	35355.0	40574.9	40736.7	35558.4	26463.8	19317.6
57.5°	1278.0	5175.9	17833.7	26443.0	36367.1	41571.1	41579.7	36387.9	27064.2	18924.3
58°	1253.5	5070.5	17676.9	26596.2	36541.1	41612.8	41592.0	36425.9	27553.2	18909.6
60°	1116.3	4402.7	17065.4	26987.1	36282.5	40757.5	40562.7	35596.3	27480.9	18758.8
62.5°	877.3	3434.6	16463.8	26534.9	33510.8	36617.1	36697.9	31514.7	25052.2	17880.3
65°	698.4	2559.8	15209.0	23275.5	27594.8	30070.0	30371.5	25626.9	20910.6	15140.4
67.5°	556.3	1850.3	12758.3	18530.9	21835.7	25096.3	25315.7	21515.9	16200.3	11600.4
70°	452.2	1251.1	8806.6	13552.3	18010.2	21676.4	21689.9	17874.1	12091.7	7600.8
72.5°	400.7	866.3	5112.1	9883.7	14603.7	17663.4	17306.8	14504.4	9293.0	4501.9
75°	346.8	574.7	2507.1	6042.2	8854.4	8914.4	9050.4	6728.4	4645.3	2140.7
77.5°	285.5	408.0	987.6	1650.5	2655.3	3399.1	3525.3	2671.3	1545.2	526.9
80°	196.1	193.6	265.9	506.1	759.7	952.1	888.4	687.4	404.4	202.2
82.5°	84.5	91.9	120.1	144.6	117.6	114.0	109.1	69.8	53.9	41.7
85°	27.0	24.5	25.7	25.7	20.8	15.9	15.9	7.4	0.0	0.0
87.5°	13.5	11.0	11.0	9.8	6.1	2.5	1.2	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

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
71.1	0°	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
66.2	2.5°	64.9	64.9	62.5	60.0	58.8	56.4	55.1	53.9	52.7	51.5
71.1	5°	68.6	67.4	63.7	60.0	56.4	52.7	50.2	47.8	45.3	44.1
78.4	7.5°	74.7	72.3	64.9	58.8	53.9	49.0	46.6	42.9	40.4	36.8
87.0	10°	82.1	77.2	67.4	60.0	52.7	46.6	42.9	39.2	35.5	30.6
99.3	12.5°	91.9	83.3	71.1	58.8	50.2	42.9	39.2	34.3	30.6	27.0
115.2	15°	100.5	89.5	72.3	58.8	47.8	39.2	34.3	29.4	25.7	20.8
144.6	17.5°	112.7	94.4	71.1	55.1	44.1	34.3	29.4	25.7	19.6	12.3
214.4	20°	133.6	98.0	68.6	51.5	38.0	28.2	22.1	17.2	8.6	2.5
322.3	22.5°	166.6	107.8	66.2	46.6	33.1	22.1	14.7	6.1	0.0	0.0
490.1	25°	230.4	125.0	66.2	44.1	29.4	15.9	4.9	0.0	0.0	0.0
696.0	27.5°	306.3	148.3	66.2	38.0	23.3	8.6	0.0	0.0	0.0	0.0
948.4	30°	383.5	174.0	66.2	33.1	18.4	1.2	0.0	0.0	0.0	0.0
1167.8	32.5°	457.1	196.1	67.4	28.2	12.3	0.0	0.0	0.0	0.0	0.0
1471.6	35°	531.8	199.7	66.2	24.5	7.4	0.0	0.0	0.0	0.0	0.0
1844.1	37.5°	627.4	192.4	62.5	22.1	3.7	0.0	0.0	0.0	0.0	0.0
2426.2	40°	772.0	196.1	58.8	20.8	1.2	0.0	0.0	0.0	0.0	0.0
3464.1	42.5°	1039.1	212.0	53.9	20.8	0.0	0.0	0.0	0.0	0.0	0.0
5517.7	45°	1796.4	284.3	49.0	22.1	0.0	0.0	0.0	0.0	0.0	0.0
8283.3	47.5°	2971.5	511.0	47.8	22.1	0.0	0.0	0.0	0.0	0.0	0.0
9978.0	50°	3792.5	643.3	50.2	23.3	0.0	0.0	0.0	0.0	0.0	0.0
10190.0	52.5°	3786.3	716.8	52.7	24.5	4.9	0.0	0.0	0.0	0.0	0.0
9392.3	55°	3366.0	730.3	56.4	27.0	15.9	0.0	0.0	0.0	0.0	0.0
8071.4	57.5°	2813.4	666.6	64.9	33.1	29.4	0.0	0.0	0.0	0.0	0.0
7864.3	58°	2715.4	637.2	67.4	34.3	31.9	0.0	0.0	0.0	0.0	0.0
6821.5	60°	2225.2	519.5	85.8	42.9	42.9	0.0	0.0	0.0	0.0	0.0
5592.5	62.5°	1536.6	453.4	98.0	55.1	44.1	0.0	0.0	0.0	0.0	0.0
4123.3	65°	1086.9	409.3	106.6	58.8	35.5	0.0	0.0	0.0	0.0	0.0
2929.8	67.5°	812.4	377.4	117.6	60.0	18.4	0.0	0.0	0.0	0.0	0.0
1838.0	70°	622.5	354.1	144.6	63.7	4.9	0.0	0.0	0.0	0.0	0.0
1095.5	72.5°	507.3	327.2	175.2	66.2	0.0	0.0	0.0	0.0	0.0	0.0
656.8	75°	420.3	295.3	169.1	72.3	0.0	0.0	0.0	0.0	0.0	0.0
350.4	77.5°	279.4	229.1	154.4	72.3	0.0	0.0	0.0	0.0	0.0	0.0
125.0	80°	98.0	90.7	120.1	63.7	0.0	0.0	0.0	0.0	0.0	0.0
25.7	82.5°	14.7	12.3	17.2	22.1	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

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CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
71.1	0°	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
50.2	2.5°	50.2	50.2	49.0	50.2	50.2	52.7	58.8	67.4	77.2	80.9
42.9	5°	41.7	40.4	39.2	39.2	39.2	42.9	47.8	57.6	68.6	73.5
35.5	7.5°	34.3	33.1	31.9	30.6	30.6	33.1	39.2	50.2	61.3	66.2
29.4	10°	28.2	25.7	24.5	23.3	23.3	25.7	31.9	42.9	55.1	60.0
24.5	12.5°	23.3	19.6	17.2	15.9	14.7	18.4	24.5	34.3	47.8	53.9
18.4	15°	15.9	12.3	8.6	7.4	6.1	9.8	15.9	27.0	40.4	47.8
9.8	17.5°	8.6	3.7	1.2	0.0	0.0	2.5	7.4	19.6	33.1	39.2
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.8	24.5	30.6
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	14.7	20.8
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	11.0
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
0.0	30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	82.5°	0.0	0.0	0.0	0.0	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	3.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	9.8
0.0	90°	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):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
71.1	0°	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
84.5	2.5°	87.0	85.8	83.3	80.9	80.9	80.9	84.5	88.2	91.9	91.9
76.0	5°	80.9	80.9	79.6	77.2	77.2	78.4	83.3	89.5	94.4	95.6
69.8	7.5°	74.7	77.2	74.7	73.5	74.7	76.0	80.9	88.2	95.6	98.0
64.9	10°	71.1	72.3	72.3	71.1	71.1	73.5	78.4	88.2	98.0	101.7
58.8	12.5°	66.2	68.6	67.4	67.4	67.4	69.8	76.0	87.0	100.5	105.4
52.7	15°	61.3	64.9	64.9	63.7	63.7	64.9	73.5	85.8	104.2	112.7
45.3	17.5°	56.4	60.0	61.3	58.8	58.8	61.3	69.8	85.8	106.6	121.3
36.8	20°	46.6	52.7	56.4	52.7	52.7	55.1	63.7	80.9	107.8	129.9
27.0	22.5°	36.8	42.9	47.8	46.6	46.6	47.8	58.8	77.2	109.1	144.6
15.9	25°	27.0	33.1	36.8	39.2	39.2	42.9	53.9	74.7	114.0	175.2
7.4	27.5°	15.9	23.3	28.2	30.6	31.9	36.8	50.2	72.3	122.5	219.3
0.0	30°	7.4	13.5	19.6	24.5	24.5	33.1	46.6	69.8	133.6	283.1
0.0	32.5°	0.0	6.1	9.8	17.2	18.4	27.0	42.9	67.4	149.5	344.3
0.0	35°	0.0	0.0	4.9	13.5	13.5	22.1	39.2	64.9	174.0	390.9
0.0	37.5°	0.0	0.0	0.0	9.8	11.0	19.6	38.0	63.7	178.9	394.6
0.0	40°	0.0	0.0	0.0	7.4	8.6	18.4	38.0	64.9	161.7	386.0
0.0	42.5°	0.0	0.0	0.0	4.9	6.1	18.4	38.0	67.4	145.8	395.8
0.0	45°	0.0	0.0	0.0	3.7	4.9	19.6	36.8	66.2	137.2	447.3
0.0	47.5°	0.0	0.0	0.0	4.9	7.4	19.6	35.5	64.9	138.5	617.6
0.0	50°	0.0	0.0	0.0	6.1	8.6	19.6	36.8	62.5	151.9	949.6
0.0	52.5°	0.0	0.0	0.0	4.9	7.4	22.1	40.4	61.3	165.4	1235.2
0.0	55°	0.0	0.0	0.0	1.2	3.7	28.2	44.1	61.3	186.3	1306.2
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	31.9	50.2	64.9	220.6	1278.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	31.9	51.5	64.9	223.0	1253.5
0.0	60°	0.0	0.0	0.0	0.0	0.0	31.9	56.4	72.3	240.2	1116.3
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	27.0	67.4	90.7	250.0	877.3
0.0	65°	0.0	0.0	0.0	0.0	0.0	22.1	79.6	99.3	257.3	698.4
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	20.8	82.1	100.5	261.0	556.3
0.0	70°	0.0	0.0	0.0	0.0	0.0	22.1	80.9	107.8	273.3	452.2
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	24.5	73.5	118.9	273.3	400.7
0.0	75°	0.0	0.0	0.0	0.0	0.0	25.7	68.6	133.6	248.7	346.8
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	24.5	67.4	155.6	221.8	285.5
0.0	80°	2.5	3.7	3.7	2.5	2.5	20.8	66.2	158.1	188.7	196.1
1.2	82.5°	7.4	9.8	8.6	6.1	6.1	18.4	58.8	132.3	98.0	84.5
7.4	85°	13.5	15.9	15.9	13.5	13.5	17.2	36.8	47.8	33.1	27.0
13.5	87.5°	18.4	20.8	20.8	18.4	18.4	17.2	15.9	14.7	13.5	13.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF RI



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-1

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-740-U-5WQ

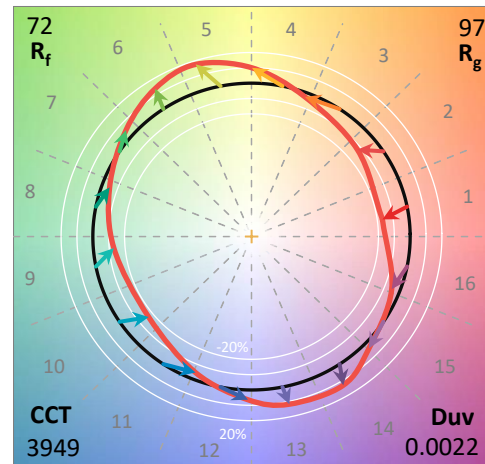
Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-1
 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-740-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 4000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3949	CRI (Ra):	70.7		
CIE u':	0.2248	R1:	68.0	R9:	-36.7
CIE v':	0.5053	R2:	76.0	R10:	45.1
Duv:	0.0022	R3:	84.3	R11:	70.7
CIE x:	0.3844	R4:	72.0	R12:	47.1
CIE y:	0.3840	R5:	68.6	R13:	68.5
CIE z:	0.2316	R6:	68.3	R14:	91.1
Peak Wavelength (nm):	440	R7:	77.9	R15:	58.7
Dominant Wavelength (nm):	578	R8:	50.3		
Purity:	30.60026				
Rf:	71.8				
Rg:	96.5				



Test Conditions

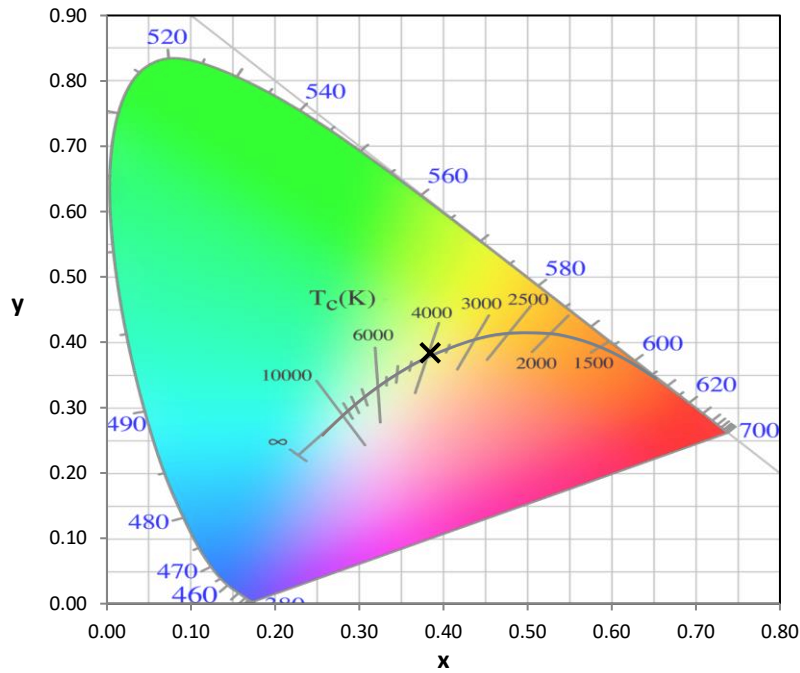
Stabilization Time: 34M
 Operation Time: 1H 34M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-1

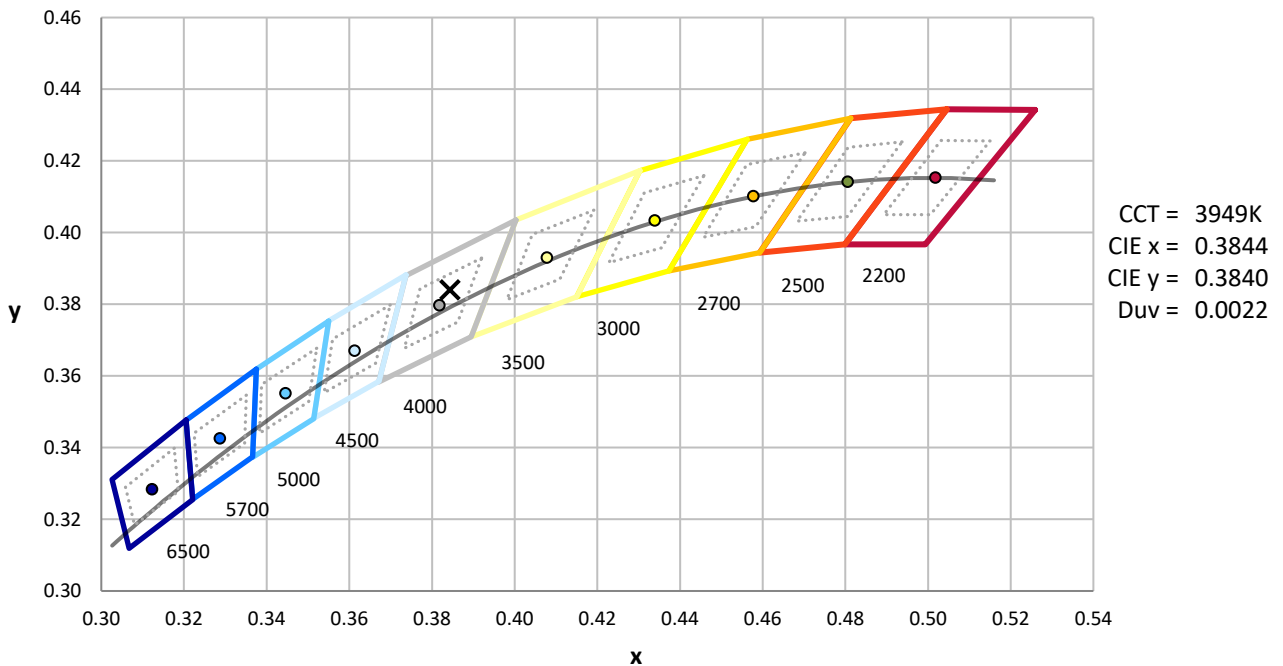
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



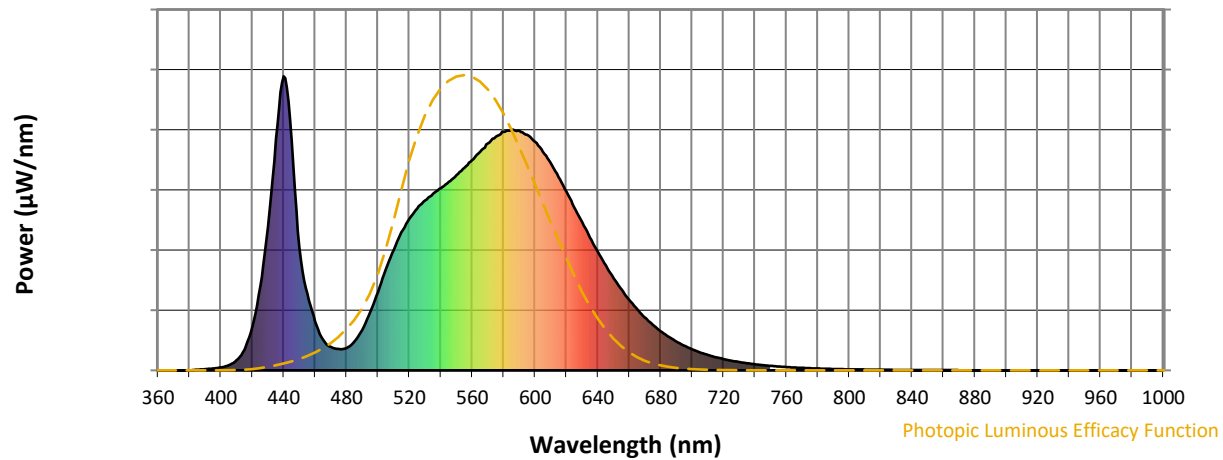
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-1

Photopic Flux vs. Wavelength

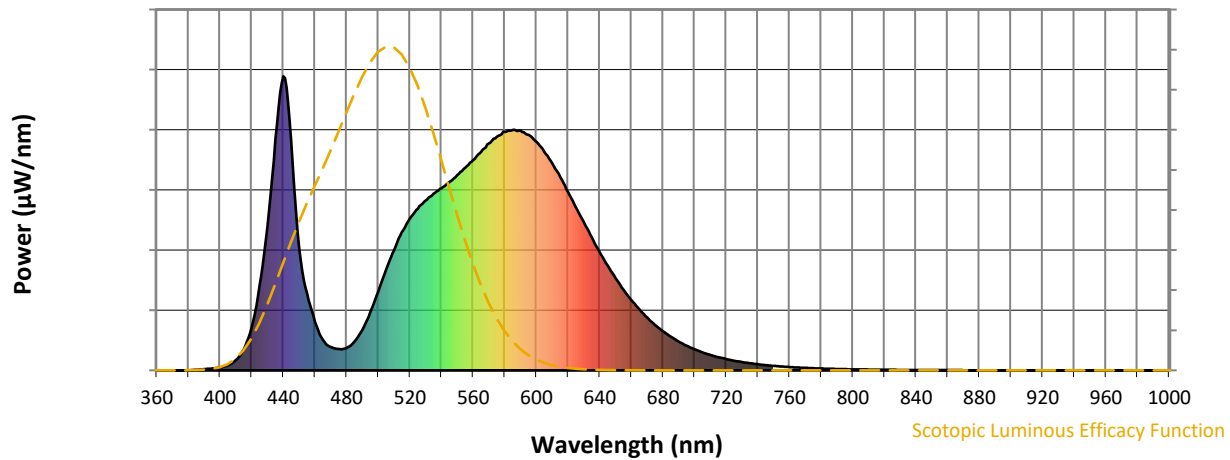


Photopic Lumens: NR

λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)
360	0	NR	490	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Scotopic Flux vs. Wavelength



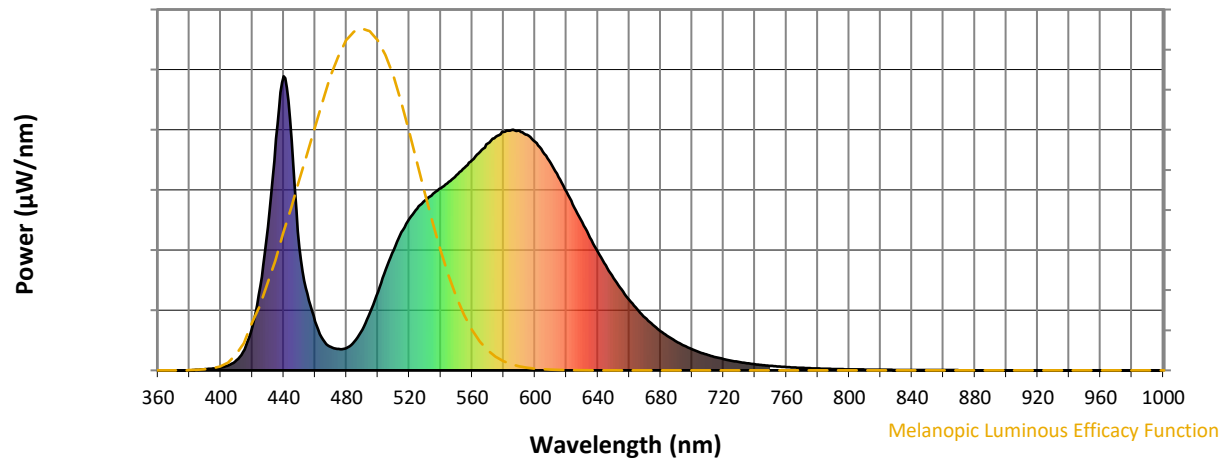
Scotopic Lumens: NR

S/P: 1.47

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.78

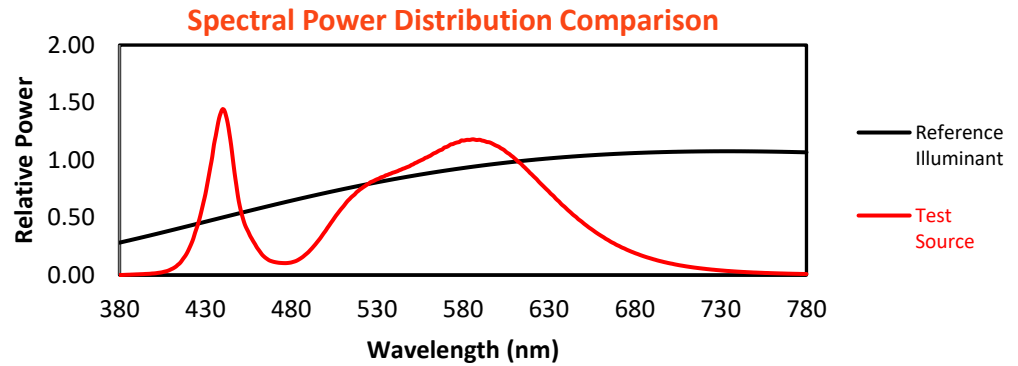
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

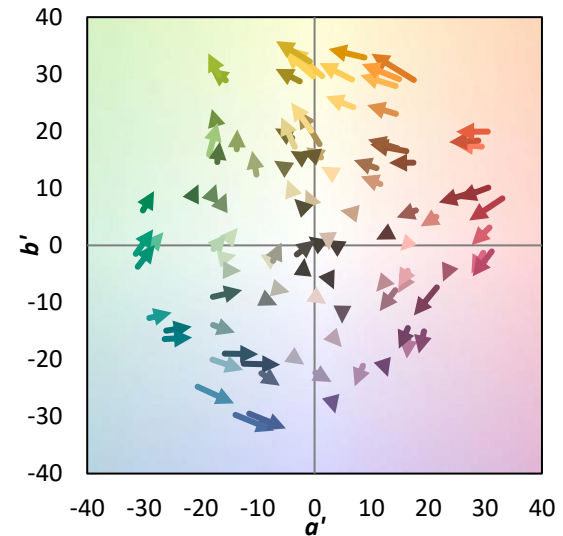
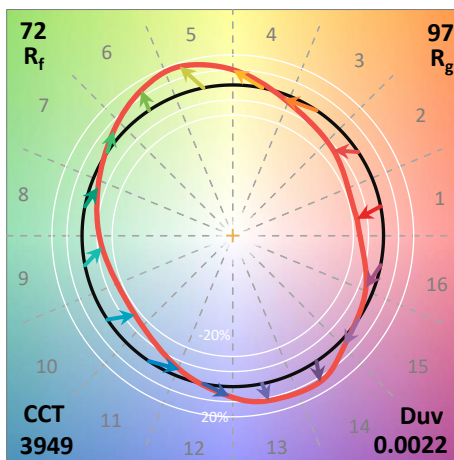
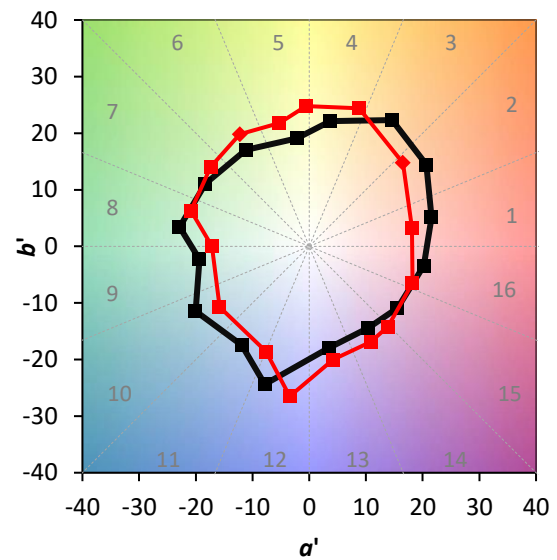
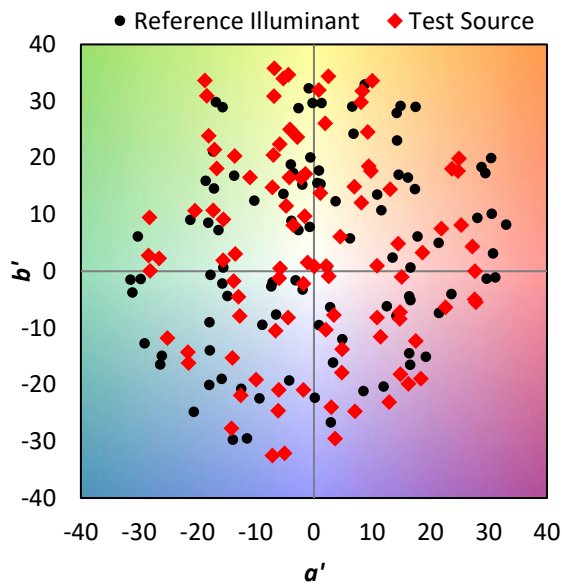
TM-30-18

Summary

$R_f = 71.8$
 $R_g = 96.5$
 $CIE R_a = 70.7$
 $R_g = -36.7$

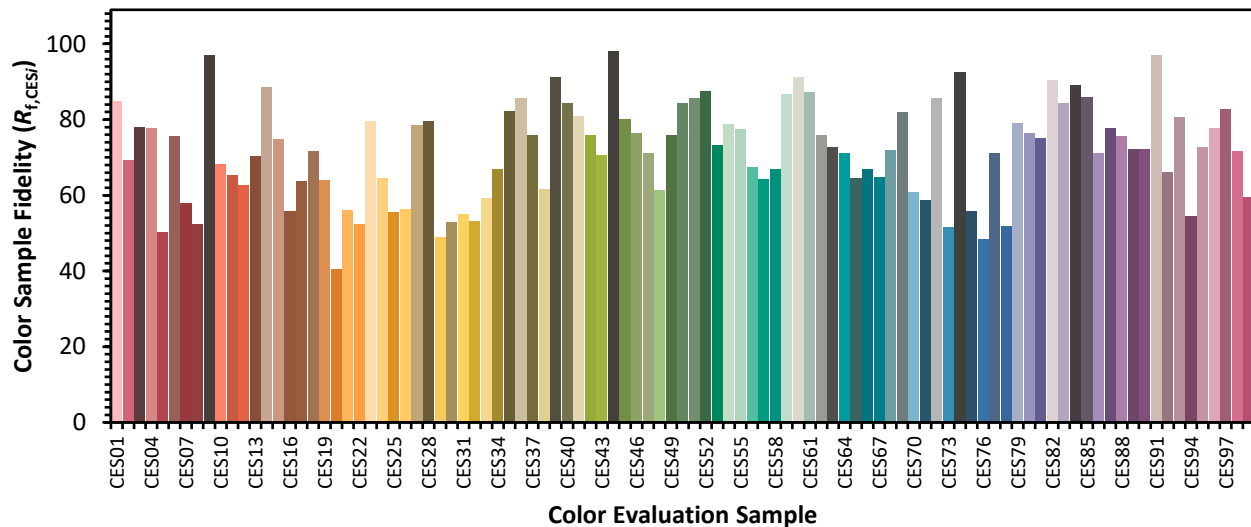


Color Vector Graphics

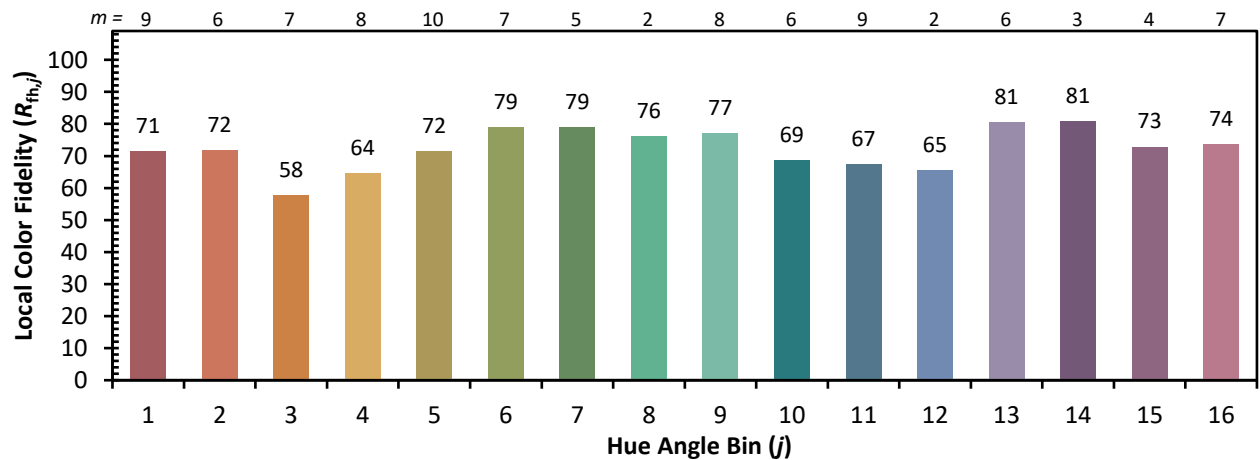
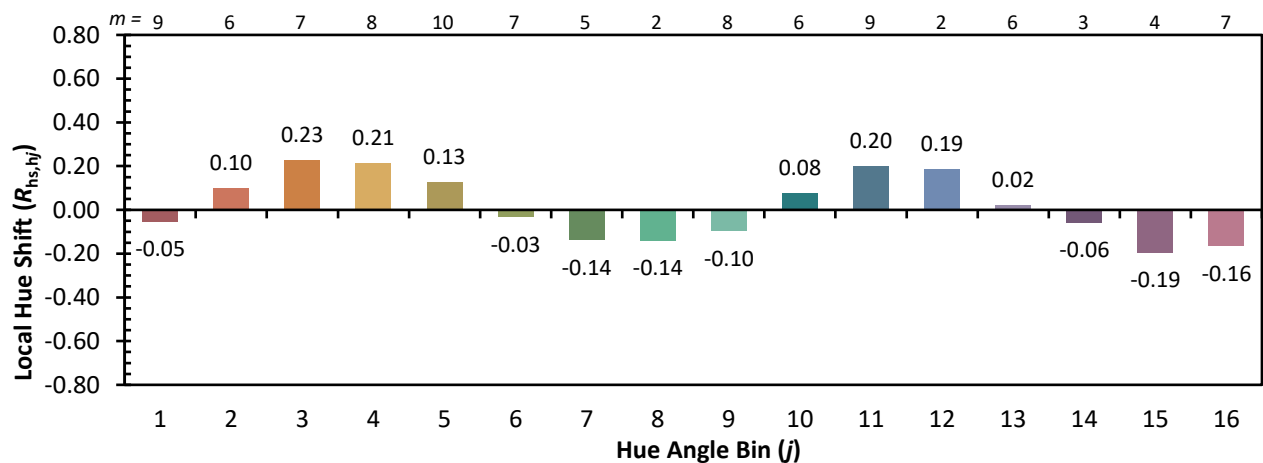
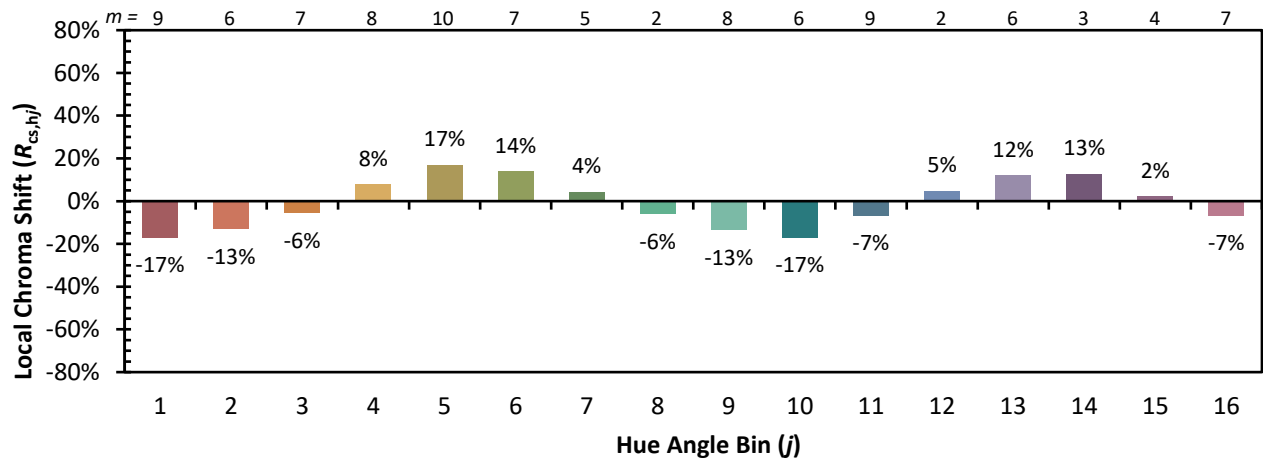


Individual Sample Fidelity Index ($R_{f,i}$)

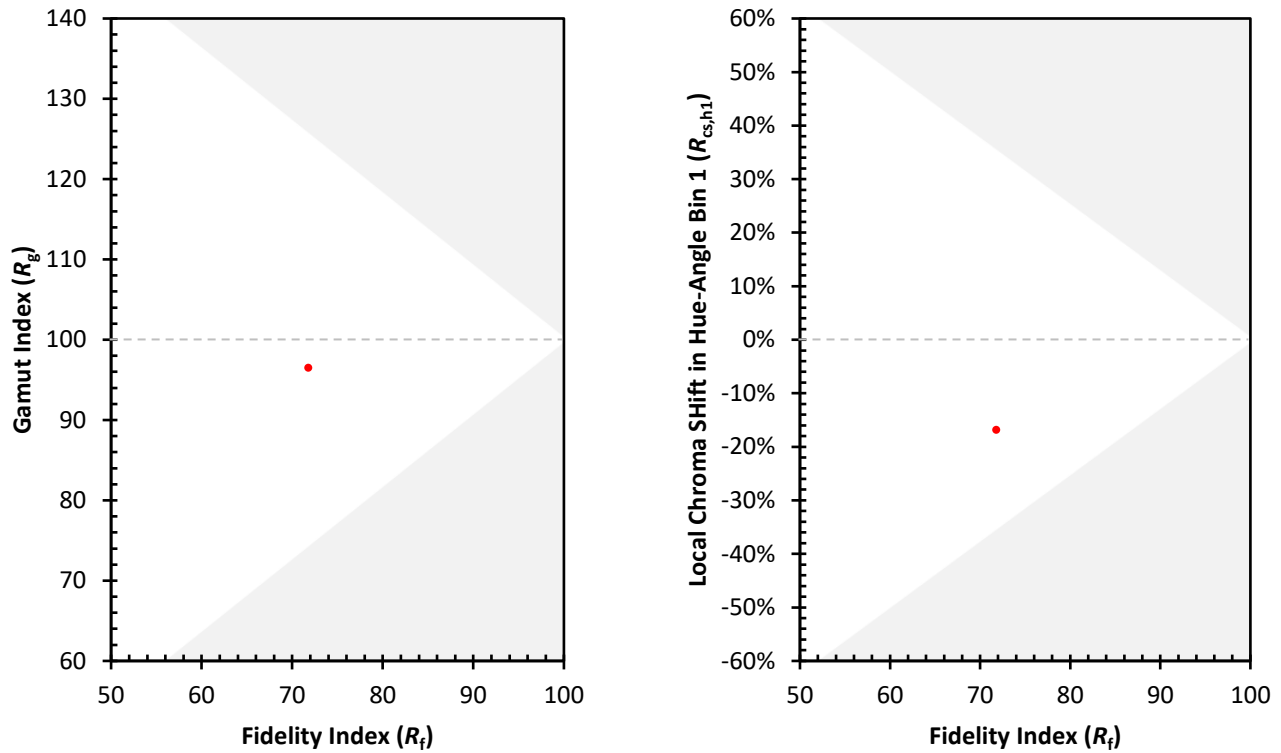
CES01 = 85	CES26 = 56	CES51 = 86	CES76 = 48
CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 64	CES82 = 90
CES08 = 39	CES33 = 59	CES58 = 67	CES83 = 84
CES09 = 29	CES34 = 67	CES59 = 87	CES84 = 89
CES10 = 74	CES35 = 82	CES60 = 91	CES85 = 86
CES11 = 57	CES36 = 86	CES61 = 87	CES86 = 71
CES12 = 63	CES37 = 76	CES62 = 76	CES87 = 78
CES13 = 42	CES38 = 62	CES63 = 73	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 71	CES89 = 72
CES15 = 71	CES40 = 84	CES65 = 64	CES90 = 72
CES16 = 46	CES41 = 81	CES66 = 67	CES91 = 97
CES17 = 49	CES42 = 76	CES67 = 65	CES92 = 66
CES18 = 56	CES43 = 71	CES68 = 72	CES93 = 81
CES19 = 72	CES44 = 98	CES69 = 82	CES94 = 55
CES20 = 65	CES45 = 80	CES70 = 61	CES95 = 73
CES21 = 86	CES46 = 76	CES71 = 59	CES96 = 78
CES22 = 78	CES47 = 71	CES72 = 86	CES97 = 83
CES23 = 92	CES48 = 61	CES73 = 52	CES98 = 72
CES24 = 91	CES49 = 76	CES74 = 93	CES99 = 60
CES25 = 72	CES50 = 84	CES75 = 56	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)