

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: McGRAW-EDISON

Report Number: P1049541

Luminaire Tested: **GALN-SA3A-727-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049541
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-727-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 3xLight Square PACKAGE
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9095.5 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 81.4
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

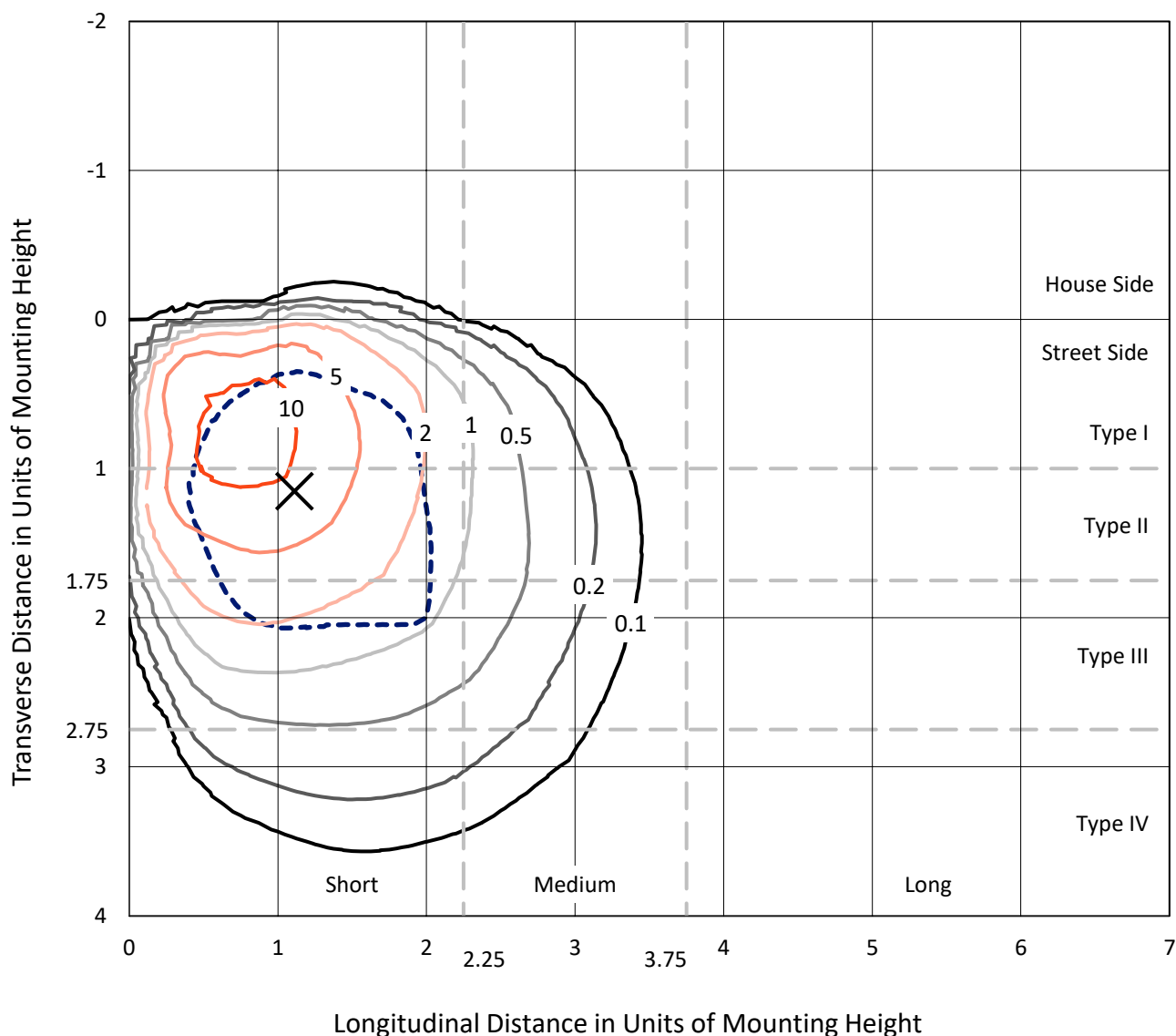
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

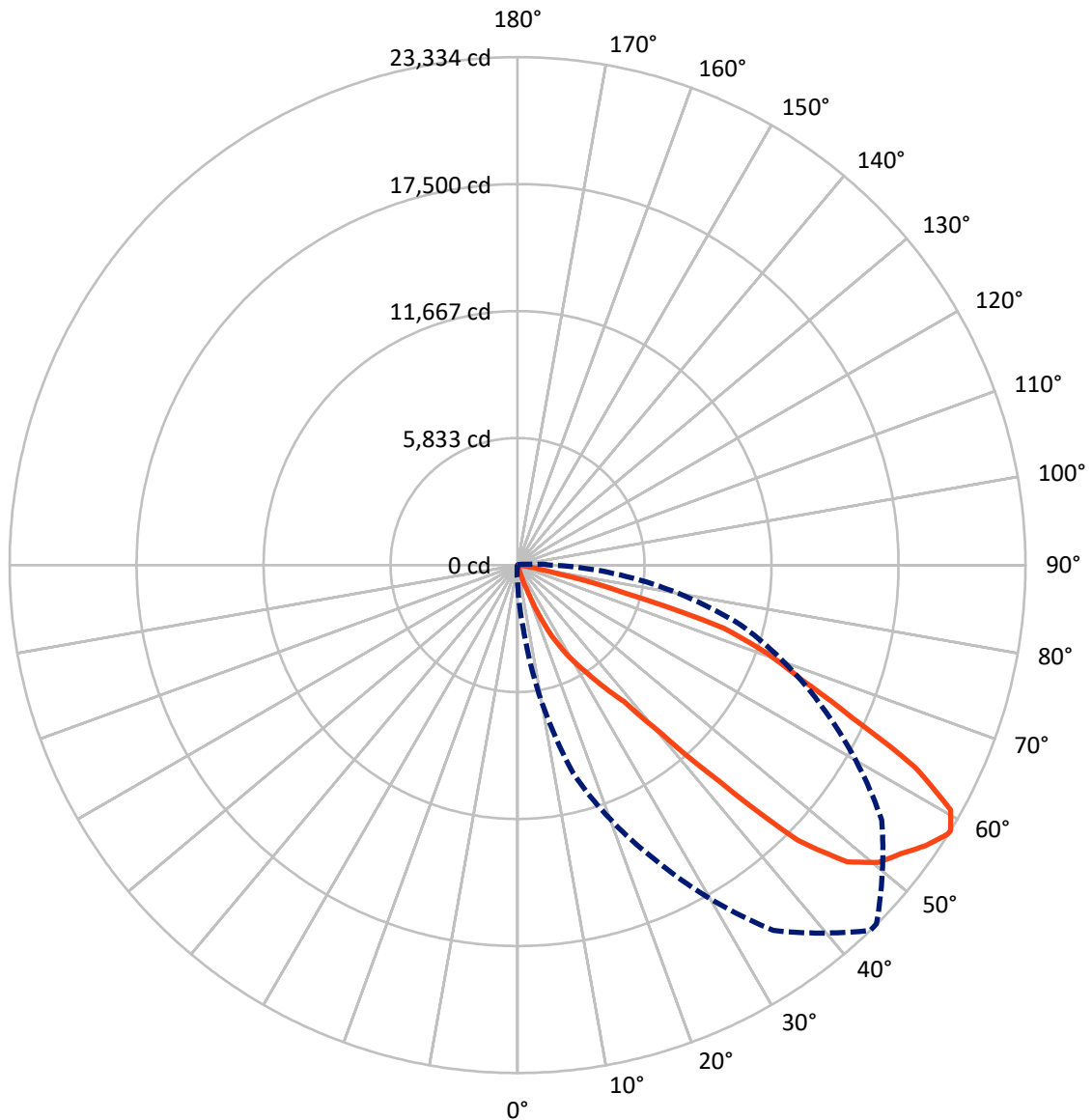


Based on 20 foot mounting height. Maximum calculated value = 15.8 fc

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	62.1	0.0	62.1
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	9033.4	0.0	9033.4
	% Fixture	99.3	0.0	99.3
Total	Lumens	9095.5	0.0	9095.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.6	0.0
10°-20°	19.9	0.2
20°-30°	215.5	2.4
30°-40°	637.2	7.0
40°-50°	1899.3	20.9
50°-60°	3013.7	33.1
60°-70°	2513.8	27.6
70°-80°	775.3	8.5
80°-90°	17.2	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°	9095.5	100.0
0°-180°	9095.5	100.0



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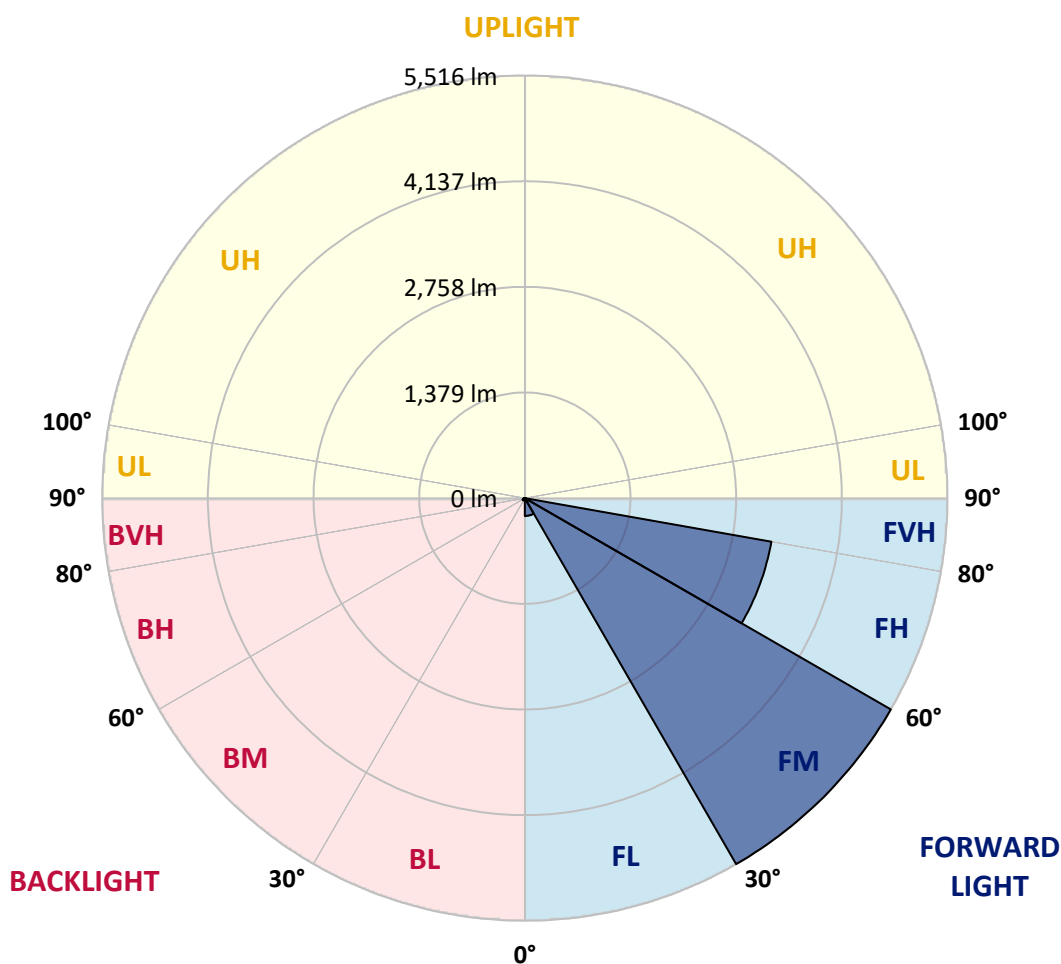
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	232.9	2.6			
FM	(30°-60°)	5516.3	60.6			
FH	(60°-80°)	3267.9	35.9			G2/5000
FVH	(80°-90°)	16.4	0.2			G1/100
BL	(0°-30°)	6.1	0.1	B0/110		
BM	(30°-60°)	34.0	0.4	B0/220		
BH	(60°-80°)	21.2	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°	44°	45°	55°	65°	75°	85°
0°	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9
2.5°	51.5	51.5	49.5	46.7	44.0	41.2	40.5	39.2	38.5	37.8	37.1
5°	53.6	53.6	52.9	50.8	48.1	46.0	46.0	44.0	42.6	41.2	39.9
7.5°	55.0	55.7	57.0	56.3	55.0	52.9	52.9	51.5	49.5	46.0	44.0
10°	57.0	59.1	61.8	63.2	63.9	63.9	63.2	62.5	59.1	54.3	48.8
12.5°	59.1	63.2	70.1	77.0	81.1	86.6	85.9	84.5	75.6	65.3	55.7
15°	63.2	69.4	83.8	103.8	134.7	153.9	161.5	154.6	125.1	87.9	64.6
17.5°	68.0	78.3	121.6	217.1	355.9	421.9	461.7	429.4	284.5	167.0	81.1
20°	72.8	95.5	226.1	562.7	923.4	1139.2	1199.0	1105.5	709.8	318.1	120.2
22.5°	81.1	134.0	458.3	1163.2	1989.8	2313.4	2374.6	2075.7	1340.5	628.0	180.7
25°	98.3	194.4	790.2	1895.7	2969.6	3515.8	3490.4	3098.8	2174.6	1003.2	274.8
27.5°	123.0	283.1	1194.9	2693.4	3908.2	4389.8	4447.5	3963.1	2898.8	1475.2	390.3
30°	158.7	392.3	1629.1	3332.4	4660.5	5181.4	5191.0	4690.1	3546.8	1889.5	531.8
32.5°	193.1	495.4	2009.1	3950.1	5401.9	5972.9	6015.5	5399.2	4030.5	2321.0	654.8
35°	219.2	562.7	2393.8	4492.9	6149.5	6936.2	6933.4	6201.7	4603.5	2706.5	825.2
37.5°	221.2	630.1	2742.2	5048.1	7096.3	7977.1	8064.4	7257.7	5296.1	3183.3	1034.1
40°	216.4	705.6	3183.3	5913.8	8802.3	10153.8	10230.8	9213.9	6685.4	3999.6	1360.4
42.5°	221.9	836.9	3899.2	7512.6	11635.2	13576.2	13724.6	12655.5	9239.3	5665.1	1942.4
45°	250.8	1083.5	5399.2	10187.5	15673.2	18039.6	17990.1	16450.3	12211.0	8200.4	3094.0
47.5°	346.3	1687.5	7622.6	12790.9	18253.9	20361.2	20403.8	18521.9	13945.2	10149.7	4644.7
50°	532.5	2582.1	9490.8	14167.1	19363.6	21477.8	21437.9	19263.3	14604.1	11109.6	5595.0
52.5°	692.6	3229.3	10428.0	14650.1	19505.8	22029.5	22026.8	19458.4	14706.5	11192.0	5713.8
55°	732.4	3278.1	10435.5	14676.3	19824.6	22751.6	22842.3	19938.7	14839.1	10832.0	5266.6
57.5°	716.6	2902.3	9999.9	14827.4	20392.2	23310.2	23315.0	20403.8	15175.8	10611.4	4525.9
58°	702.9	2843.2	9912.0	14913.3	20489.7	23333.6	23321.9	20425.1	15449.9	10603.2	4409.7
60°	625.9	2468.7	9569.1	15132.5	20344.8	22854.0	22744.8	19960.0	15409.4	10518.7	3825.0
62.5°	492.0	1925.9	9231.8	14878.9	18790.6	20532.3	20577.7	17671.3	14047.6	10026.0	3135.9
65°	391.6	1435.3	8528.2	13051.3	15473.3	16861.2	17030.2	14369.8	11725.2	8489.7	2312.1
67.5°	311.9	1037.5	7154.0	10390.9	12244.0	14072.3	14195.3	12064.6	9084.0	6504.7	1642.8
70°	253.5	701.5	4938.1	7599.2	10098.9	12154.6	12162.2	10022.6	6780.2	4262.0	1030.6
72.5°	224.7	485.8	2866.5	5542.1	8188.7	9904.4	9704.5	8133.1	5210.9	2524.4	614.3
75°	194.4	322.2	1405.8	3388.0	4964.9	4998.6	5074.9	3772.8	2604.8	1200.3	368.3
77.5°	160.1	228.8	553.8	925.5	1488.9	1906.0	1976.8	1497.9	866.4	295.4	196.5
80°	109.9	108.6	149.1	283.8	426.0	533.9	498.1	385.5	226.7	113.4	70.1
82.5°	47.4	51.5	67.3	81.1	66.0	63.9	61.2	39.2	30.2	23.4	14.4
85°	15.1	13.7	14.4	14.4	11.7	8.9	8.9	4.1	0.0	0.0	0.0
87.5°	7.6	6.2	6.2	5.5	3.4	1.4	0.7	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°	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9
2.5°	36.4	36.4	35.0	33.7	33.0	31.6	30.9	30.2	29.5	28.9	28.2
5°	38.5	37.8	35.7	33.7	31.6	29.5	28.2	26.8	25.4	24.7	24.0
7.5°	41.9	40.5	36.4	33.0	30.2	27.5	26.1	24.0	22.7	20.6	19.9
10°	46.0	43.3	37.8	33.7	29.5	26.1	24.0	22.0	19.9	17.2	16.5
12.5°	51.5	46.7	39.9	33.0	28.2	24.0	22.0	19.2	17.2	15.1	13.7
15°	56.3	50.2	40.5	33.0	26.8	22.0	19.2	16.5	14.4	11.7	10.3
17.5°	63.2	52.9	39.9	30.9	24.7	19.2	16.5	14.4	11.0	6.9	5.5
20°	74.9	55.0	38.5	28.9	21.3	15.8	12.4	9.6	4.8	1.4	0.0
22.5°	93.4	60.5	37.1	26.1	18.6	12.4	8.2	3.4	0.0	0.0	0.0
25°	129.2	70.1	37.1	24.7	16.5	8.9	2.7	0.0	0.0	0.0	0.0
27.5°	171.8	83.1	37.1	21.3	13.1	4.8	0.0	0.0	0.0	0.0	0.0
30°	215.1	97.6	37.1	18.6	10.3	0.7	0.0	0.0	0.0	0.0	0.0
32.5°	256.3	109.9	37.8	15.8	6.9	0.0	0.0	0.0	0.0	0.0	0.0
35°	298.2	112.0	37.1	13.7	4.1	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	351.8	107.9	35.0	12.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0
40°	432.9	109.9	33.0	11.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	582.7	118.9	30.2	11.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1007.3	159.4	27.5	12.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1666.2	286.5	26.8	12.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2126.5	360.7	28.2	13.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2123.1	401.9	29.5	13.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
55°	1887.4	409.5	31.6	15.1	8.9	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1577.6	373.8	36.4	18.6	16.5	0.0	0.0	0.0	0.0	0.0	0.0
58°	1522.6	357.3	37.8	19.2	17.9	0.0	0.0	0.0	0.0	0.0	0.0
60°	1247.8	291.3	48.1	24.0	24.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	861.6	254.2	55.0	30.9	24.7	0.0	0.0	0.0	0.0	0.0	0.0
65°	609.4	229.5	59.8	33.0	19.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	455.5	211.6	66.0	33.7	10.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	349.0	198.6	81.1	35.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	284.5	183.5	98.3	37.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	235.7	165.6	94.8	40.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	156.7	128.5	86.6	40.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	55.0	50.8	67.3	35.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.2	6.9	9.6	12.4	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°	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9
2.5°	28.2	28.2	27.5	28.2	28.2	29.5	33.0	37.8	43.3	45.3	47.4
5°	23.4	22.7	22.0	22.0	22.0	24.0	26.8	32.3	38.5	41.2	42.6
7.5°	19.2	18.6	17.9	17.2	17.2	18.6	22.0	28.2	34.4	37.1	39.2
10°	15.8	14.4	13.7	13.1	13.1	14.4	17.9	24.0	30.9	33.7	36.4
12.5°	13.1	11.0	9.6	8.9	8.2	10.3	13.7	19.2	26.8	30.2	33.0
15°	8.9	6.9	4.8	4.1	3.4	5.5	8.9	15.1	22.7	26.8	29.5
17.5°	4.8	2.1	0.7	0.0	0.0	1.4	4.1	11.0	18.6	22.0	25.4
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	13.7	17.2	20.6
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	8.2	11.7	15.1
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	6.2	8.9
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.1
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	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	4.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.5	7.6
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°	316°	325°	335°	345°	355°	360°
0°	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9
2.5°	48.8	48.1	46.7	45.3	45.3	45.3	47.4	49.5	51.5	51.5
5°	45.3	45.3	44.7	43.3	43.3	44.0	46.7	50.2	52.9	53.6
7.5°	41.9	43.3	41.9	41.2	41.9	42.6	45.3	49.5	53.6	55.0
10°	39.9	40.5	40.5	39.9	39.9	41.2	44.0	49.5	55.0	57.0
12.5°	37.1	38.5	37.8	37.8	37.8	39.2	42.6	48.8	56.3	59.1
15°	34.4	36.4	36.4	35.7	35.7	36.4	41.2	48.1	58.4	63.2
17.5°	31.6	33.7	34.4	33.0	33.0	34.4	39.2	48.1	59.8	68.0
20°	26.1	29.5	31.6	29.5	29.5	30.9	35.7	45.3	60.5	72.8
22.5°	20.6	24.0	26.8	26.1	26.1	26.8	33.0	43.3	61.2	81.1
25°	15.1	18.6	20.6	22.0	22.0	24.0	30.2	41.9	63.9	98.3
27.5°	8.9	13.1	15.8	17.2	17.9	20.6	28.2	40.5	68.7	123.0
30°	4.1	7.6	11.0	13.7	13.7	18.6	26.1	39.2	74.9	158.7
32.5°	0.0	3.4	5.5	9.6	10.3	15.1	24.0	37.8	83.8	193.1
35°	0.0	0.0	2.7	7.6	7.6	12.4	22.0	36.4	97.6	219.2
37.5°	0.0	0.0	0.0	5.5	6.2	11.0	21.3	35.7	100.3	221.2
40°	0.0	0.0	0.0	4.1	4.8	10.3	21.3	36.4	90.7	216.4
42.5°	0.0	0.0	0.0	2.7	3.4	10.3	21.3	37.8	81.8	221.9
45°	0.0	0.0	0.0	2.1	2.7	11.0	20.6	37.1	77.0	250.8
47.5°	0.0	0.0	0.0	2.7	4.1	11.0	19.9	36.4	77.6	346.3
50°	0.0	0.0	0.0	3.4	4.8	11.0	20.6	35.0	85.2	532.5
52.5°	0.0	0.0	0.0	2.7	4.1	12.4	22.7	34.4	92.8	692.6
55°	0.0	0.0	0.0	0.7	2.1	15.8	24.7	34.4	104.4	732.4
57.5°	0.0	0.0	0.0	0.0	0.0	17.9	28.2	36.4	123.7	716.6
58°	0.0	0.0	0.0	0.0	0.0	17.9	28.9	36.4	125.1	702.9
60°	0.0	0.0	0.0	0.0	0.0	17.9	31.6	40.5	134.7	625.9
62.5°	0.0	0.0	0.0	0.0	0.0	15.1	37.8	50.8	140.2	492.0
65°	0.0	0.0	0.0	0.0	0.0	12.4	44.7	55.7	144.3	391.6
67.5°	0.0	0.0	0.0	0.0	0.0	11.7	46.0	56.3	146.4	311.9
70°	0.0	0.0	0.0	0.0	0.0	12.4	45.3	60.5	153.2	253.5
72.5°	0.0	0.0	0.0	0.0	0.0	13.7	41.2	66.6	153.2	224.7
75°	0.0	0.0	0.0	0.0	0.0	14.4	38.5	74.9	139.5	194.4
77.5°	0.0	0.0	0.0	0.0	0.0	13.7	37.8	87.3	124.4	160.1
80°	1.4	2.1	2.1	1.4	1.4	11.7	37.1	88.6	105.8	109.9
82.5°	4.1	5.5	4.8	3.4	3.4	10.3	33.0	74.2	55.0	47.4
85°	7.6	8.9	8.9	7.6	7.6	9.6	20.6	26.8	18.6	15.1
87.5°	10.3	11.7	11.7	10.3	10.3	9.6	8.9	8.2	7.6	7.6
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: SP1-2407-184-3

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-727-U-5WQ

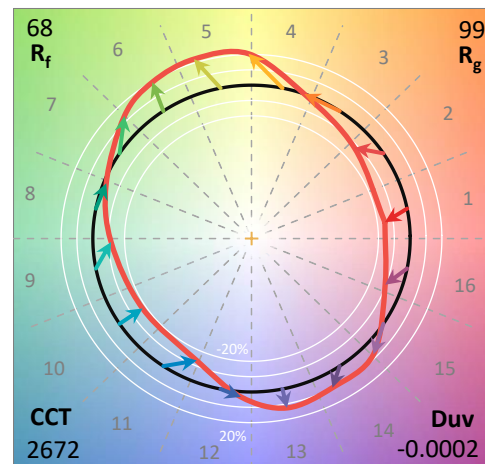
Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-3
 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-727-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K):	2672	CRI (Ra):	71.1		
CIE u':	0.2638	R1:	68.3	R9:	-27.8
CIE v':	0.5276	R2:	79.8	R10:	54.4
Duv:	-0.0002	R3:	91.2	R11:	65.8
CIE x:	0.4619	R4:	69.4	R12:	45.6
CIE y:	0.4106	R5:	66.5	R13:	69.8
CIE z:	0.1275	R6:	72.6	R14:	94.5
Peak Wavelength (nm):	601	R7:	77.0	R15:	60.1
Dominant Wavelength (nm):	584	R8:	44.1		
Purity:	61.88407				
Rf:	67.9				
Rg:	98.6				



Test Conditions

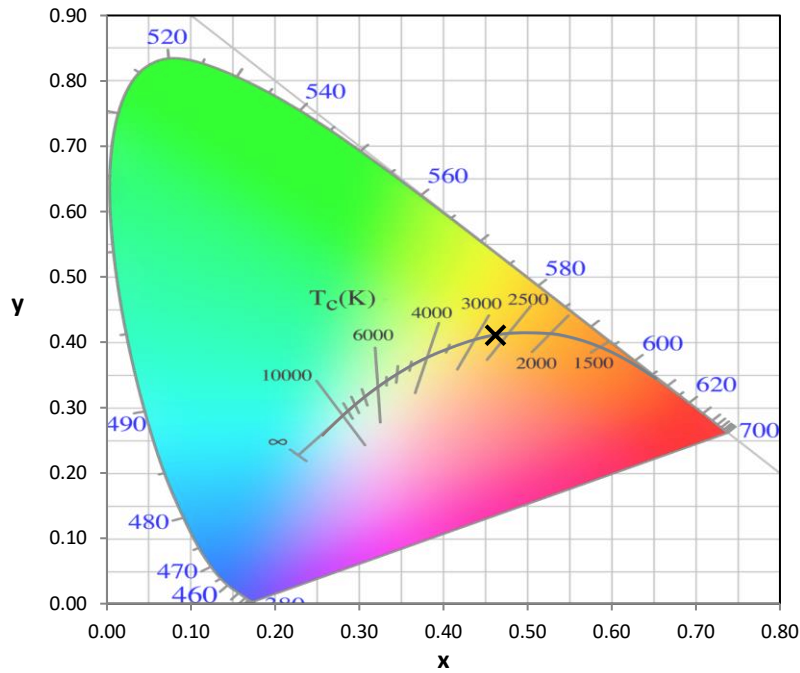
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-3

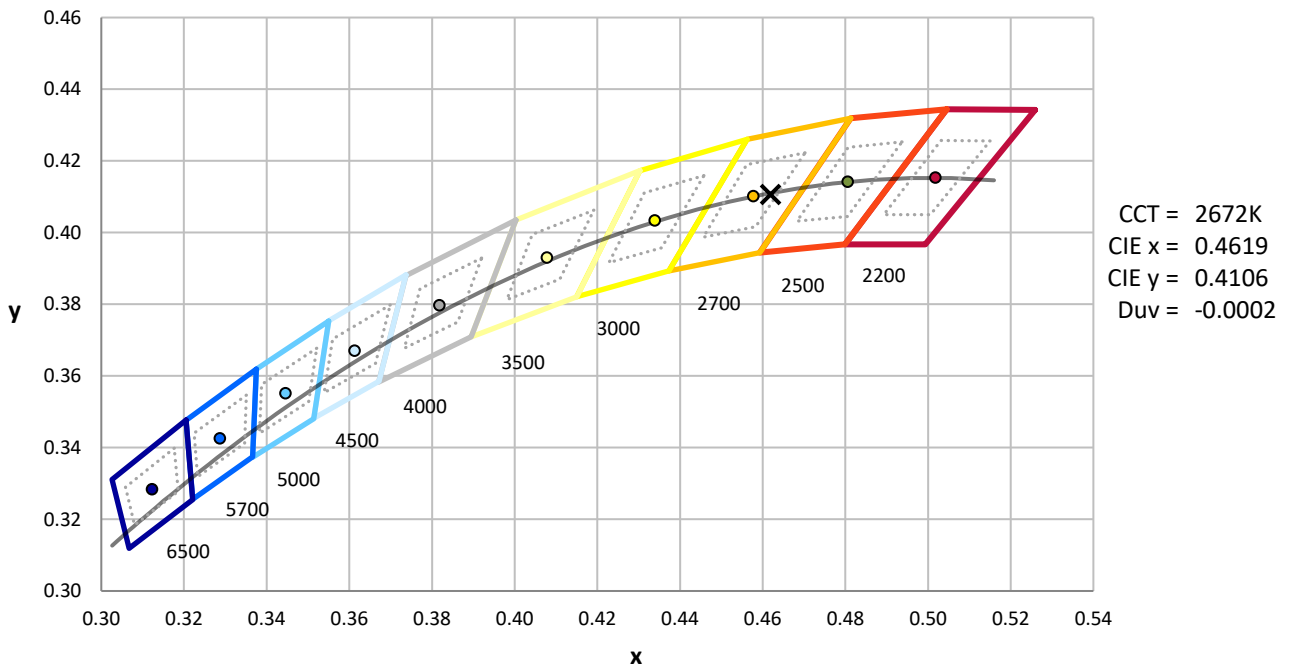
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-3

CIE 1931 Chromaticity Diagram



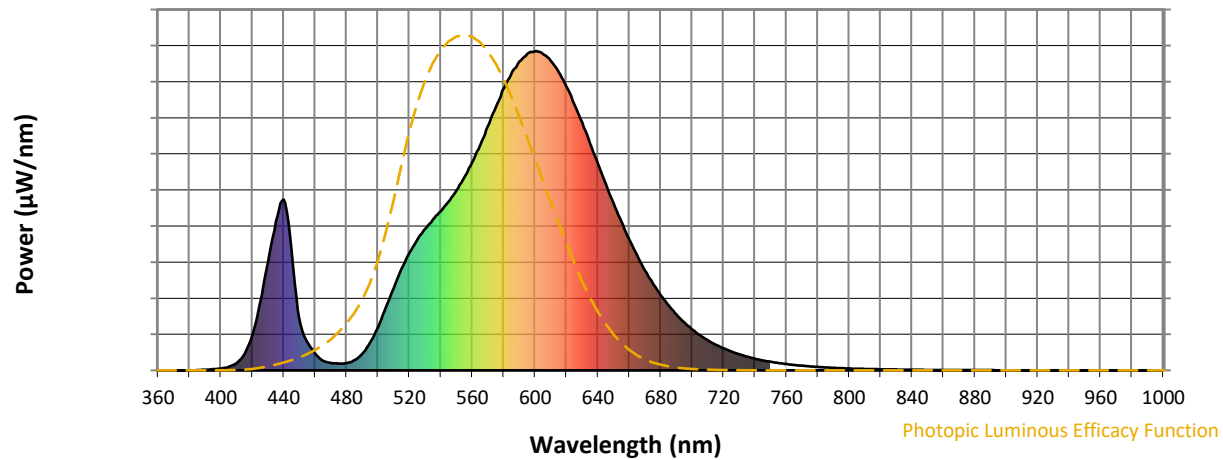
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-3

Photopic Flux vs. Wavelength

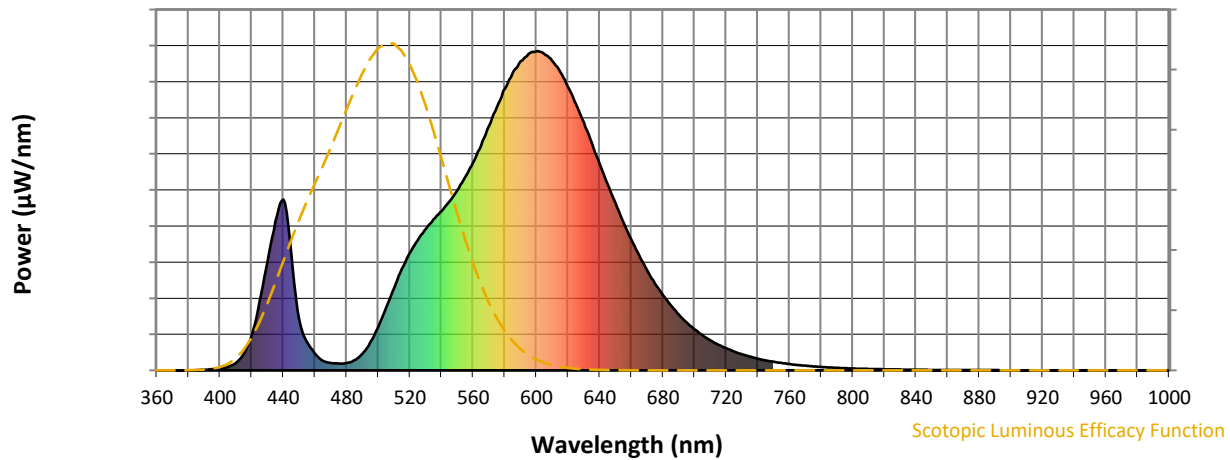


Photopic Lumens: NR

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

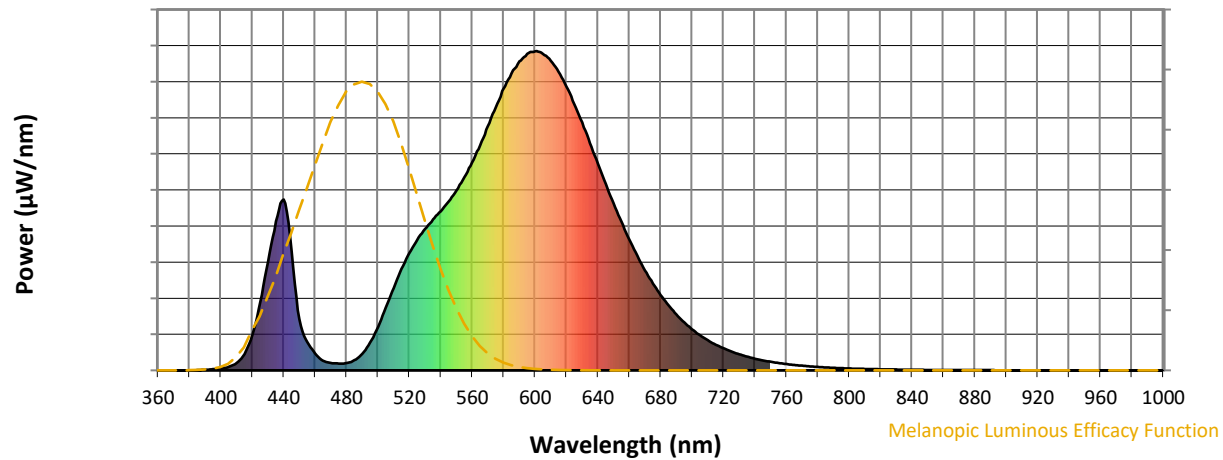
Scotopic Flux vs. Wavelength


Scotopic Lumens: NR
S/P: 1.02

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.71

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

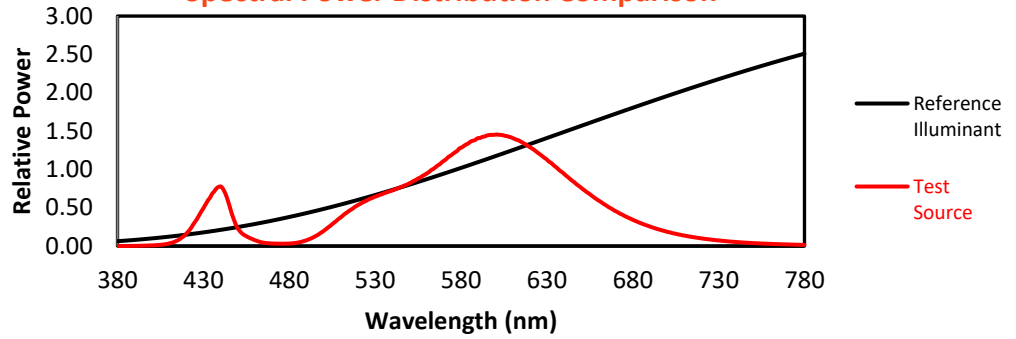
REPORT NUMBER: SP1-2407-184-3

TM-30-18

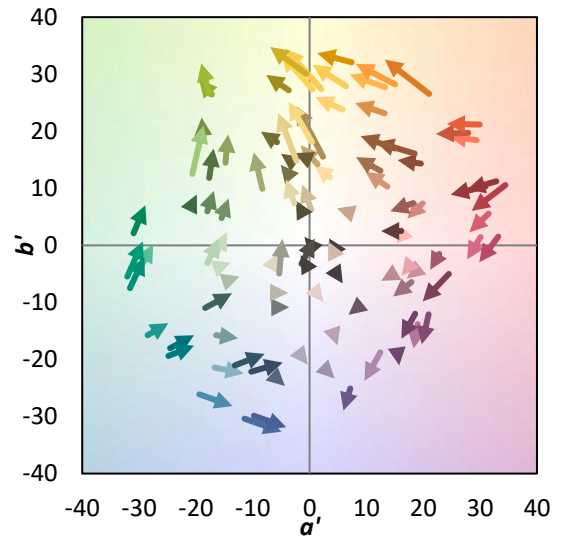
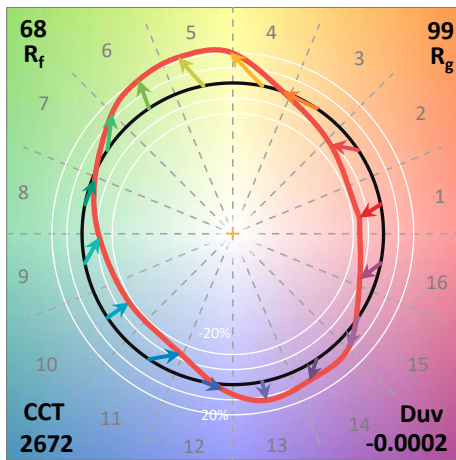
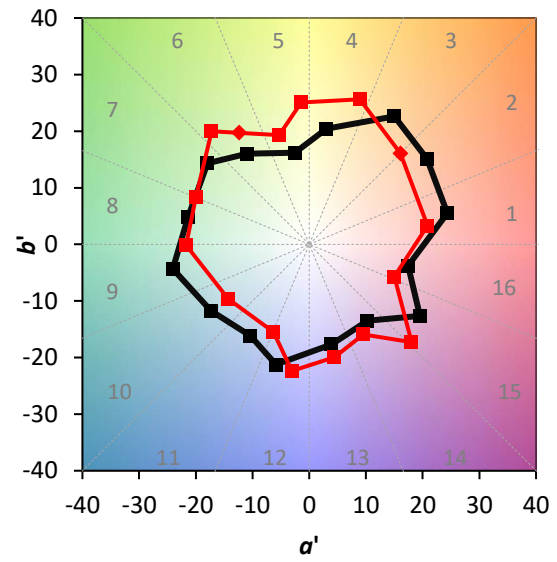
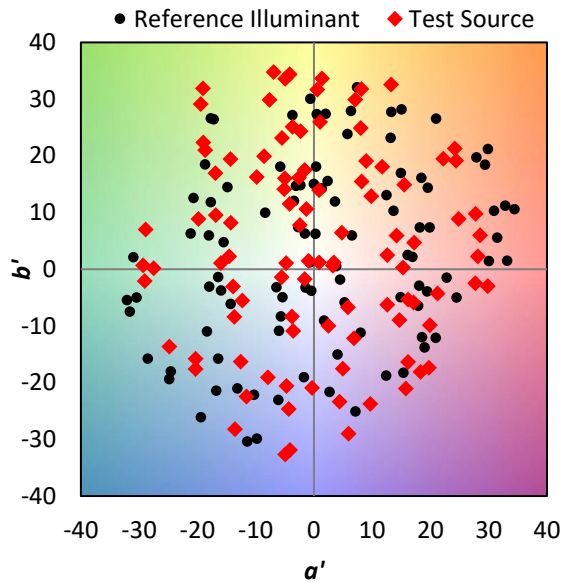
Summary

$R_f = 67.9$
 $R_g = 98.6$
 $CIE R_a = 71.1$
 $R_g = -27.8$

Spectral Power Distribution Comparison

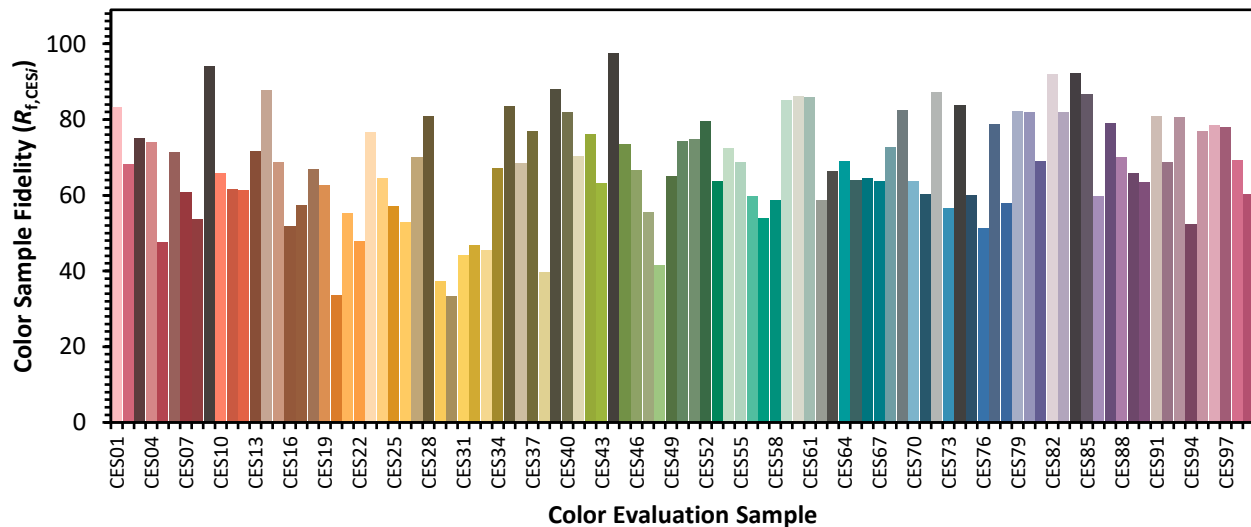


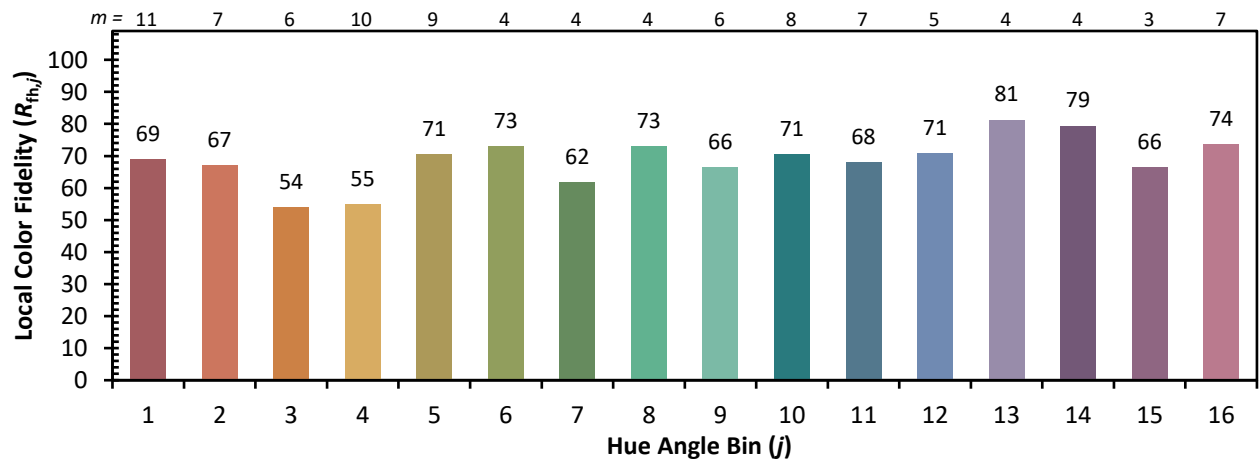
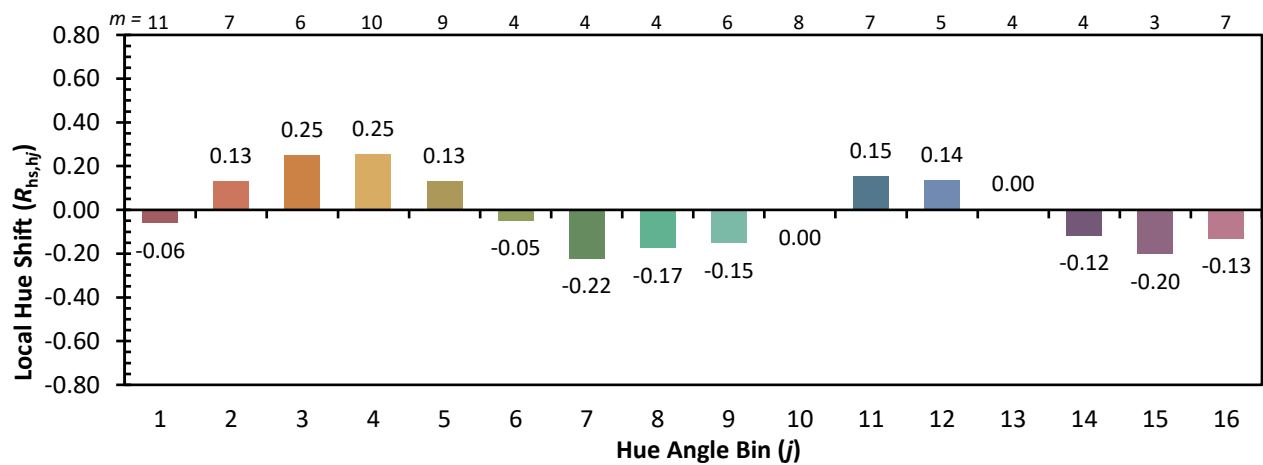
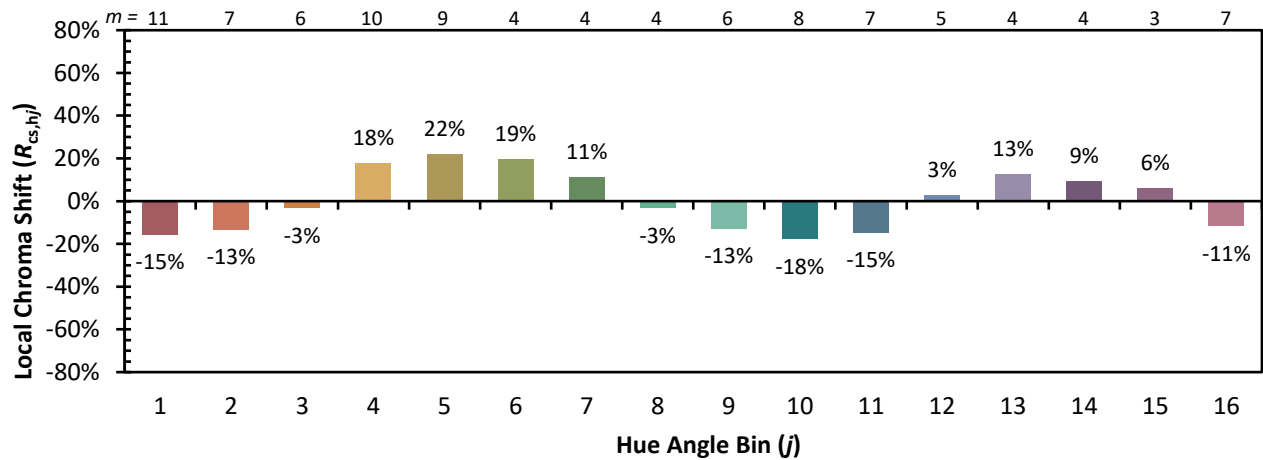
Color Vector Graphics



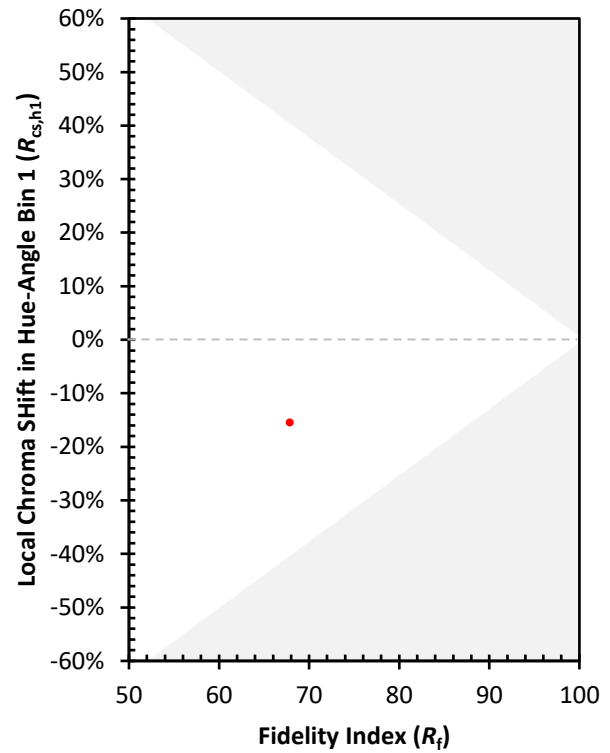
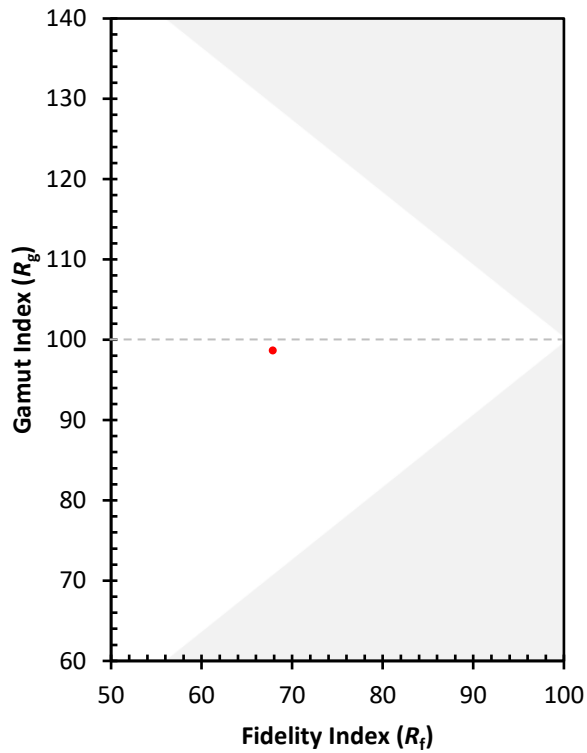
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 53	CES51 = 75	CES76 = 51
CES02 = 63	CES27 = 70	CES52 = 80	CES77 = 79
CES03 = 31	CES28 = 81	CES53 = 64	CES78 = 58
CES04 = 71	CES29 = 37	CES54 = 73	CES79 = 82
CES05 = 50	CES30 = 33	CES55 = 69	CES80 = 82
CES06 = 52	CES31 = 44	CES56 = 60	CES81 = 69
CES07 = 42	CES32 = 47	CES57 = 54	CES82 = 92
CES08 = 41	CES33 = 45	CES58 = 59	CES83 = 82
CES09 = 29	CES34 = 67	CES59 = 85	CES84 = 92
CES10 = 77	CES35 = 84	CES60 = 86	CES85 = 87
CES11 = 60	CES36 = 68	CES61 = 86	CES86 = 60
CES12 = 66	CES37 = 77	CES62 = 59	CES87 = 79
CES13 = 44	CES38 = 40	CES63 = 66	CES88 = 70
CES14 = 74	CES39 = 88	CES64 = 69	CES89 = 66
CES15 = 72	CES40 = 82	CES65 = 64	CES90 = 64
CES16 = 48	CES41 = 70	CES66 = 65	CES91 = 81
CES17 = 51	CES42 = 76	CES67 = 64	CES92 = 69
CES18 = 57	CES43 = 63	CES68 = 73	CES93 = 81
CES19 = 73	CES44 = 97	CES69 = 83	CES94 = 53
CES20 = 67	CES45 = 74	CES70 = 64	CES95 = 77
CES21 = 88	CES46 = 67	CES71 = 60	CES96 = 79
CES22 = 80	CES47 = 55	CES72 = 87	CES97 = 78
CES23 = 92	CES48 = 42	CES73 = 57	CES98 = 69
CES24 = 92	CES49 = 65	CES74 = 84	CES99 = 60
CES25 = 73	CES50 = 74	CES75 = 60	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)