

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: P1049657

Luminaire Tested: **GALN-SA5A-750-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049657
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-750-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 5xLight Square PACKAGE
70CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16297.1 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

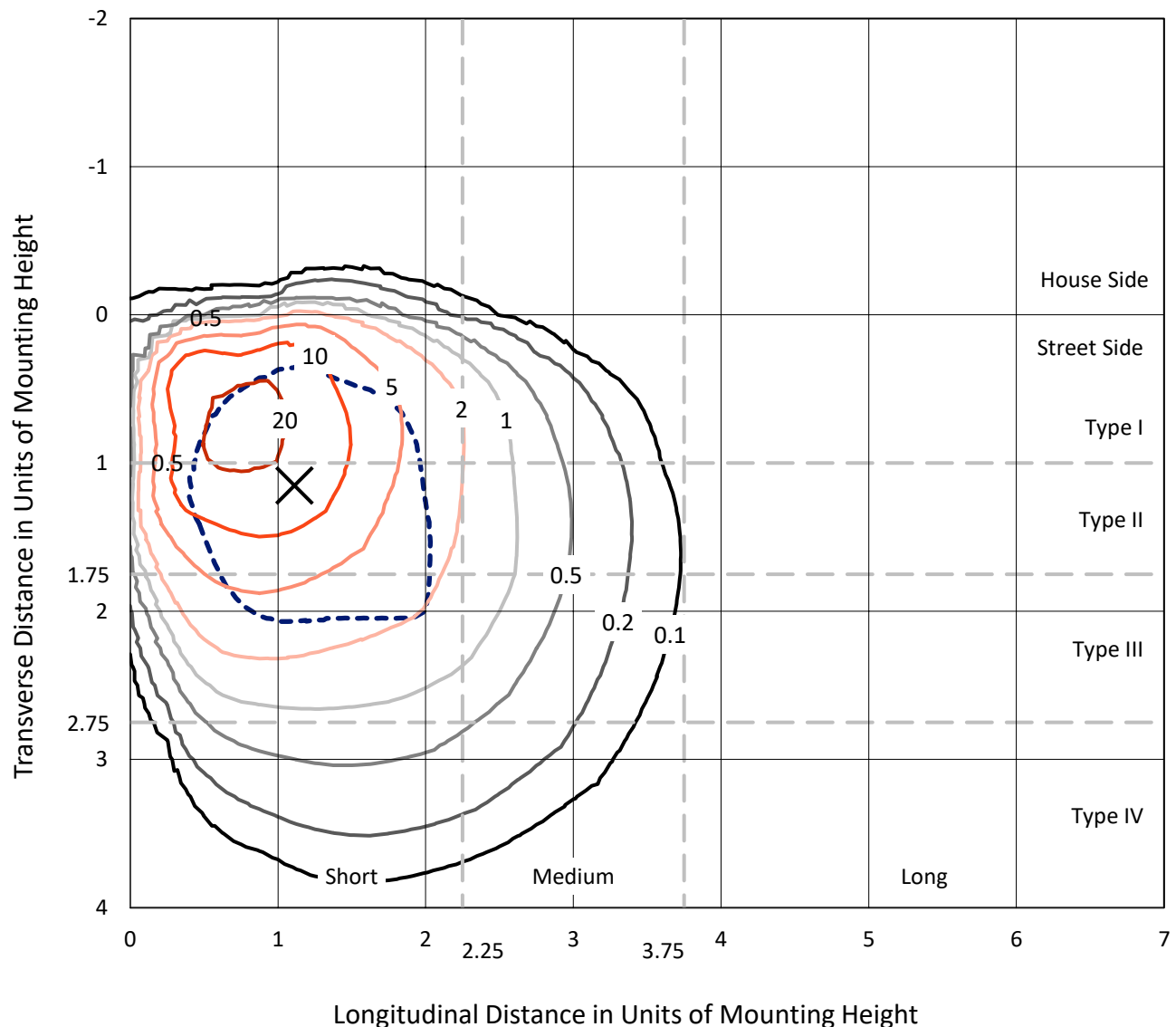
Input Watts (W): 136.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

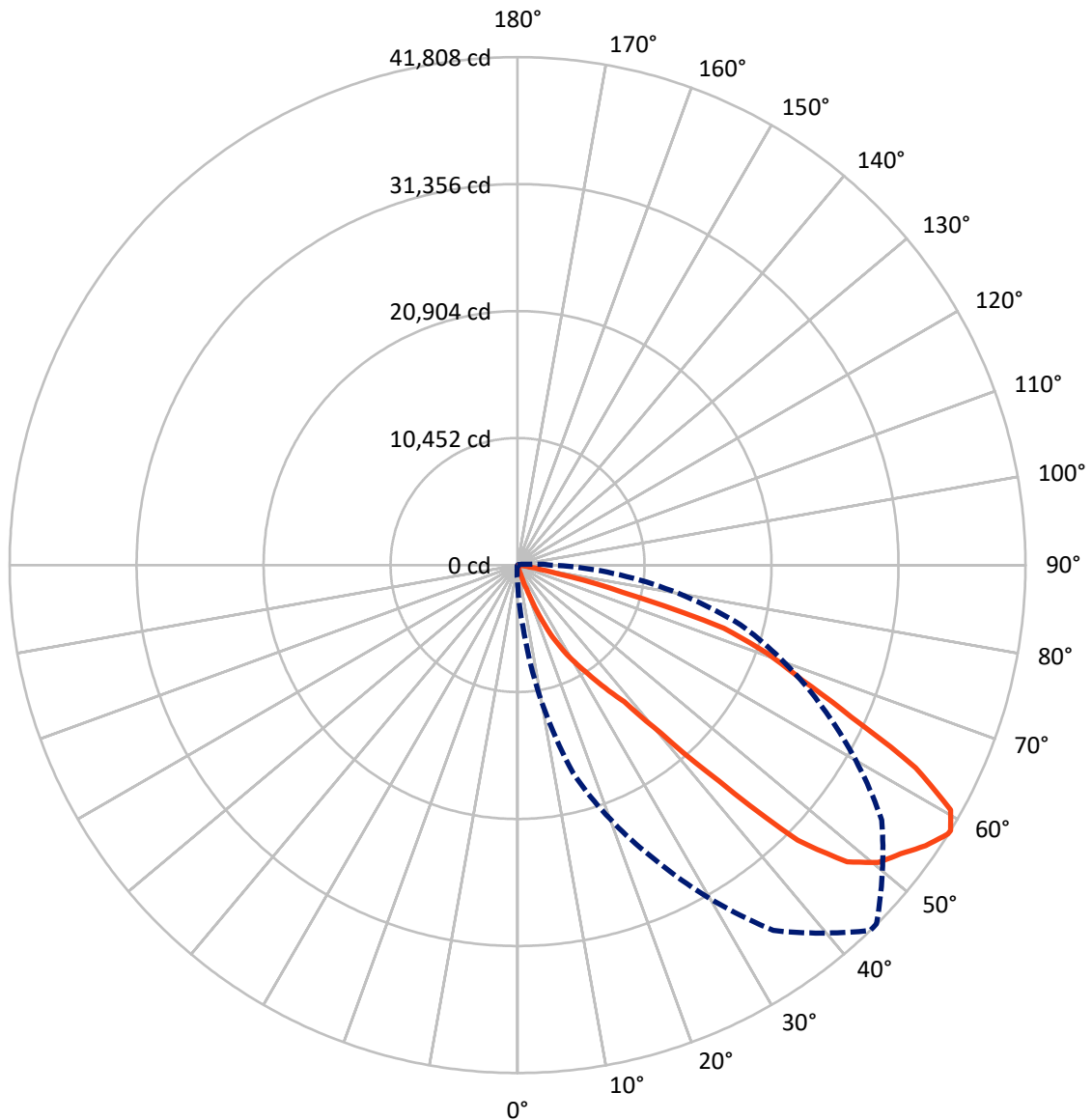
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 28.4 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	111.3	0.0	111.3
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	16185.8	0.0	16185.8
	% Fixture	99.3	0.0	99.3
Total	Lumens	16297.1	0.0	16297.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.4	0.0
10°-20°	35.7	0.2
20°-30°	386.1	2.4
30°-40°	1141.8	7.0
40°-50°	3403.1	20.9
50°-60°	5399.9	33.1
60°-70°	4504.1	27.6
70°-80°	1389.2	8.5
80°-90°	30.9	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°	16297.1	100.0
0°-180°	16297.1	100.0



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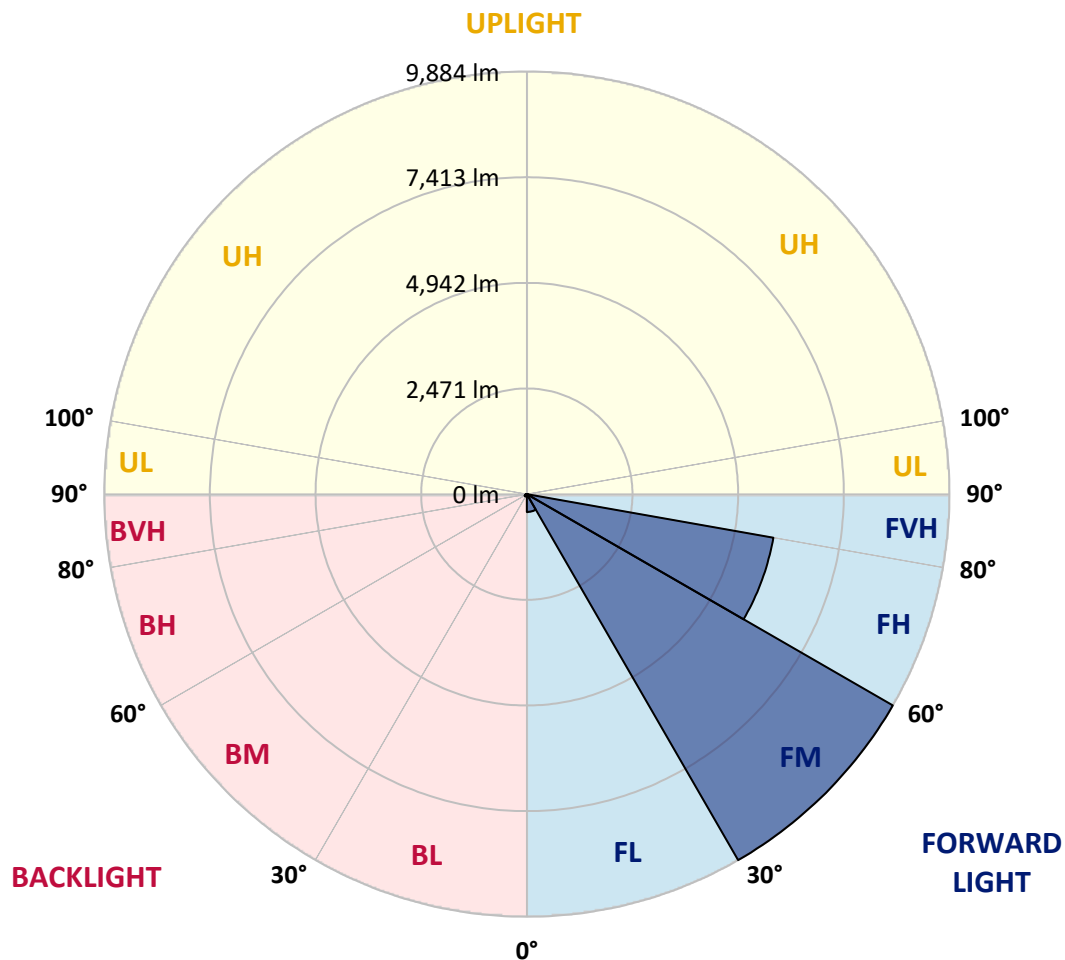
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	417.3	2.6			
FM	(30°-60°)	9883.8	60.6			
FH	(60°-80°)	5855.3	35.9			G3/7500
FVH	(80°-90°)	29.4	0.2			G1/100
BL	(0°-30°)	10.9	0.1	B0/110		
BM	(30°-60°)	60.9	0.4	B0/220		
BH	(60°-80°)	38.0	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°	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
2.5°	92.3	92.3	88.6	83.7	78.8	73.9	72.6	70.2	68.9	67.7
5°	96.0	96.0	94.8	91.1	86.2	82.5	82.5	78.8	76.3	73.9
7.5°	98.5	99.7	102.2	101.0	98.5	94.8	94.8	92.3	88.6	82.5
10°	102.2	105.9	110.8	113.3	114.5	114.5	113.3	112.0	105.9	97.3
12.5°	105.9	113.3	125.6	137.9	145.3	155.1	153.9	151.4	135.4	117.0
15°	113.3	124.3	150.2	185.9	241.3	275.8	289.3	277.0	224.1	157.6
17.5°	121.9	140.3	217.9	389.0	637.7	755.9	827.3	769.4	509.7	299.2
20°	130.5	171.1	405.0	1008.3	1654.6	2041.2	2148.3	1980.9	1271.7	570.0
22.5°	145.3	240.1	821.1	2084.3	3565.3	4145.1	4254.7	3719.2	2401.9	1125.2
25°	176.0	348.4	1415.8	3396.6	5320.8	6299.6	6254.0	5552.3	3896.5	1797.4
27.5°	220.4	507.2	2140.9	4825.9	7002.5	7865.5	7969.0	7101.0	5194.0	2643.2
30°	284.4	703.0	2919.0	5970.9	8350.6	9283.8	9301.0	8403.5	6355.0	3385.5
32.5°	345.9	887.6	3599.8	7077.6	9679.0	10702.0	10778.3	9674.0	7221.7	4158.7
35°	392.7	1008.3	4289.2	8050.2	11018.4	12428.0	12423.1	11112.0	8248.4	4849.3
37.5°	396.4	1128.9	4913.3	9044.9	12714.9	14293.1	14449.5	13004.2	9489.4	5703.7
40°	387.8	1264.3	5703.7	10596.1	15771.7	18193.3	18331.2	16509.1	11978.7	7166.3
42.5°	397.6	1499.5	6986.5	13460.9	20847.6	24325.4	24591.4	22675.8	16554.7	10150.5
45°	449.4	1941.5	9674.0	18253.6	28082.8	32322.7	32234.1	29475.2	21879.2	14693.3
47.5°	620.5	3023.6	13657.9	22918.3	32706.8	36482.6	36558.9	33186.9	24986.5	18185.9
50°	954.1	4626.5	17005.3	25384.2	34695.0	38483.2	38411.8	34515.3	26167.2	19905.8
52.5°	1241.0	5786.2	18684.5	26249.7	34949.9	39471.7	39466.8	34864.9	26350.6	20053.5
55°	1312.4	5873.6	18698.0	26296.4	35521.1	40765.6	40928.1	35725.5	26588.2	19408.4
57.5°	1284.0	5200.2	17917.5	26567.3	36538.0	41766.5	41775.1	36558.9	27191.5	19013.2
58°	1259.4	5094.3	17759.9	26721.2	36712.8	41808.4	41787.5	36597.1	27682.7	18998.4
60°	1121.5	4423.4	17145.6	27113.9	36453.1	40949.1	40753.3	35763.6	27610.0	18847.0
62.5°	881.5	3450.8	16541.1	26659.6	33668.3	36789.2	36870.4	31662.8	25170.0	17964.3
65°	701.7	2571.8	15280.5	23384.9	27724.5	30211.4	30514.2	25747.4	21008.8	15211.6
67.5°	558.9	1859.0	12818.3	18618.0	21938.3	25214.3	25434.7	21617.0	16276.5	11654.9
70°	454.3	1257.0	8848.0	13616.0	18094.8	21778.3	21791.8	17958.2	12148.6	7636.6
72.5°	402.6	870.4	5136.2	9930.1	14672.3	17746.4	17388.1	14572.6	9336.7	4523.1
75°	348.4	577.4	2518.8	6070.6	8896.0	8956.3	9093.0	6760.0	4667.1	2150.7
77.5°	286.8	410.0	992.3	1658.3	2667.8	3415.1	3541.9	2683.8	1552.4	529.4
80°	197.0	194.5	267.2	508.4	763.3	956.6	892.6	690.7	406.3	203.1
82.5°	84.9	92.3	120.6	145.3	118.2	114.5	109.6	70.2	54.2	41.9
85°	27.1	24.6	25.9	25.9	20.9	16.0	16.0	7.4	0.0	0.0
87.5°	13.5	11.1	11.1	9.8	6.2	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°
71.4	0°	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
66.5	2.5°	65.2	65.2	62.8	60.3	59.1	56.6	55.4	54.2	52.9	51.7
71.4	5°	68.9	67.7	64.0	60.3	56.6	52.9	50.5	48.0	45.6	44.3
78.8	7.5°	75.1	72.6	65.2	59.1	54.2	49.2	46.8	43.1	40.6	36.9
87.4	10°	82.5	77.6	67.7	60.3	52.9	46.8	43.1	39.4	35.7	30.8
99.7	12.5°	92.3	83.7	71.4	59.1	50.5	43.1	39.4	34.5	30.8	27.1
115.7	15°	101.0	89.9	72.6	59.1	48.0	39.4	34.5	29.5	25.9	20.9
145.3	17.5°	113.3	94.8	71.4	55.4	44.3	34.5	29.5	25.9	19.7	12.3
215.4	20°	134.2	98.5	68.9	51.7	38.2	28.3	22.2	17.2	8.6	2.5
323.8	22.5°	167.4	108.3	66.5	46.8	33.2	22.2	14.8	6.2	0.0	0.0
492.4	25°	231.4	125.6	66.5	44.3	29.5	16.0	4.9	0.0	0.0	0.0
699.3	27.5°	307.8	149.0	66.5	38.2	23.4	8.6	0.0	0.0	0.0	0.0
952.9	30°	385.3	174.8	66.5	33.2	18.5	1.2	0.0	0.0	0.0	0.0
1173.2	32.5°	459.2	197.0	67.7	28.3	12.3	0.0	0.0	0.0	0.0	0.0
1478.6	35°	534.3	200.7	66.5	24.6	7.4	0.0	0.0	0.0	0.0	0.0
1852.8	37.5°	630.3	193.3	62.8	22.2	3.7	0.0	0.0	0.0	0.0	0.0
2437.6	40°	775.6	197.0	59.1	20.9	1.2	0.0	0.0	0.0	0.0	0.0
3480.3	42.5°	1044.0	213.0	54.2	20.9	0.0	0.0	0.0	0.0	0.0	0.0
5543.7	45°	1804.8	285.6	49.2	22.2	0.0	0.0	0.0	0.0	0.0	0.0
8322.3	47.5°	2985.4	513.4	48.0	22.2	0.0	0.0	0.0	0.0	0.0	0.0
10024.9	50°	3810.3	646.3	50.5	23.4	0.0	0.0	0.0	0.0	0.0	0.0
10237.9	52.5°	3804.1	720.2	52.9	24.6	4.9	0.0	0.0	0.0	0.0	0.0
9436.4	55°	3381.8	733.7	56.6	27.1	16.0	0.0	0.0	0.0	0.0	0.0
8109.3	57.5°	2826.6	669.7	65.2	33.2	29.5	0.0	0.0	0.0	0.0	0.0
7901.2	58°	2728.1	640.2	67.7	34.5	32.0	0.0	0.0	0.0	0.0	0.0
6853.6	60°	2235.7	522.0	86.2	43.1	43.1	0.0	0.0	0.0	0.0	0.0
5618.8	62.5°	1543.8	455.5	98.5	55.4	44.3	0.0	0.0	0.0	0.0	0.0
4142.7	65°	1092.0	411.2	107.1	59.1	35.7	0.0	0.0	0.0	0.0	0.0
2943.6	67.5°	816.2	379.2	118.2	60.3	18.5	0.0	0.0	0.0	0.0	0.0
1846.7	70°	625.4	355.8	145.3	64.0	4.9	0.0	0.0	0.0	0.0	0.0
1100.6	72.5°	509.7	328.7	176.0	66.5	0.0	0.0	0.0	0.0	0.0	0.0
659.9	75°	422.3	296.7	169.9	72.6	0.0	0.0	0.0	0.0	0.0	0.0
352.1	77.5°	280.7	230.2	155.1	72.6	0.0	0.0	0.0	0.0	0.0	0.0
125.6	80°	98.5	91.1	120.6	64.0	0.0	0.0	0.0	0.0	0.0	0.0
25.9	82.5°	14.8	12.3	17.2	22.2	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°
71.4	0°	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
50.5	2.5°	50.5	50.5	49.2	50.5	50.5	52.9	59.1	67.7	77.6	81.3
43.1	5°	41.9	40.6	39.4	39.4	39.4	43.1	48.0	57.9	68.9	73.9
35.7	7.5°	34.5	33.2	32.0	30.8	30.8	33.2	39.4	50.5	61.6	66.5
29.5	10°	28.3	25.9	24.6	23.4	23.4	25.9	32.0	43.1	55.4	60.3
24.6	12.5°	23.4	19.7	17.2	16.0	14.8	18.5	24.6	34.5	48.0	54.2
18.5	15°	16.0	12.3	8.6	7.4	6.2	9.8	16.0	27.1	40.6	48.0
9.8	17.5°	8.6	3.7	1.2	0.0	0.0	2.5	7.4	19.7	33.2	39.4
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.8	24.6	30.8
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	14.8	20.9
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	11.1
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°
71.4	0°	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
84.9	2.5°	87.4	86.2	83.7	81.3	81.3	81.3	84.9	88.6	92.3	92.3
76.3	5°	81.3	81.3	80.0	77.6	77.6	78.8	83.7	89.9	94.8	96.0
70.2	7.5°	75.1	77.6	75.1	73.9	75.1	76.3	81.3	88.6	96.0	98.5
65.2	10°	71.4	72.6	72.6	71.4	71.4	73.9	78.8	88.6	98.5	102.2
59.1	12.5°	66.5	68.9	67.7	67.7	67.7	70.2	76.3	87.4	101.0	105.9
52.9	15°	61.6	65.2	65.2	64.0	64.0	65.2	73.9	86.2	104.6	113.3
45.6	17.5°	56.6	60.3	61.6	59.1	59.1	61.6	70.2	86.2	107.1	121.9
36.9	20°	46.8	52.9	56.6	52.9	52.9	55.4	64.0	81.3	108.3	130.5
27.1	22.5°	36.9	43.1	48.0	46.8	46.8	48.0	59.1	77.6	109.6	145.3
16.0	25°	27.1	33.2	36.9	39.4	39.4	43.1	54.2	75.1	114.5	176.0
7.4	27.5°	16.0	23.4	28.3	30.8	32.0	36.9	50.5	72.6	123.1	220.4
0.0	30°	7.4	13.5	19.7	24.6	24.6	33.2	46.8	70.2	134.2	284.4
0.0	32.5°	0.0	6.2	9.8	17.2	18.5	27.1	43.1	67.7	150.2	345.9
0.0	35°	0.0	0.0	4.9	13.5	13.5	22.2	39.4	65.2	174.8	392.7
0.0	37.5°	0.0	0.0	0.0	9.8	11.1	19.7	38.2	64.0	179.7	396.4
0.0	40°	0.0	0.0	0.0	7.4	8.6	18.5	38.2	65.2	162.5	387.8
0.0	42.5°	0.0	0.0	0.0	4.9	6.2	18.5	38.2	67.7	146.5	397.6
0.0	45°	0.0	0.0	0.0	3.7	4.9	19.7	36.9	66.5	137.9	449.4
0.0	47.5°	0.0	0.0	0.0	4.9	7.4	19.7	35.7	65.2	139.1	620.5
0.0	50°	0.0	0.0	0.0	6.2	8.6	19.7	36.9	62.8	152.7	954.1
0.0	52.5°	0.0	0.0	0.0	4.9	7.4	22.2	40.6	61.6	166.2	1241.0
0.0	55°	0.0	0.0	0.0	1.2	3.7	28.3	44.3	61.6	187.1	1312.4
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	32.0	50.5	65.2	221.6	1284.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	32.0	51.7	65.2	224.1	1259.4
0.0	60°	0.0	0.0	0.0	0.0	0.0	32.0	56.6	72.6	241.3	1121.5
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	27.1	67.7	91.1	251.1	881.5
0.0	65°	0.0	0.0	0.0	0.0	0.0	22.2	80.0	99.7	258.5	701.7
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	20.9	82.5	101.0	262.2	558.9
0.0	70°	0.0	0.0	0.0	0.0	0.0	22.2	81.3	108.3	274.5	454.3
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	24.6	73.9	119.4	274.5	402.6
0.0	75°	0.0	0.0	0.0	0.0	0.0	25.9	68.9	134.2	249.9	348.4
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	24.6	67.7	156.4	222.8	286.8
0.0	80°	2.5	3.7	3.7	2.5	2.5	20.9	66.5	158.8	189.6	197.0
1.2	82.5°	7.4	9.8	8.6	6.2	6.2	18.5	59.1	133.0	98.5	84.9
7.4	85°	13.5	16.0	16.0	13.5	13.5	17.2	36.9	48.0	33.2	27.1
13.5	87.5°	18.5	20.9	20.9	18.5	18.5	17.2	16.0	14.8	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: SP1-2407-184-6

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-750-U-5WQ

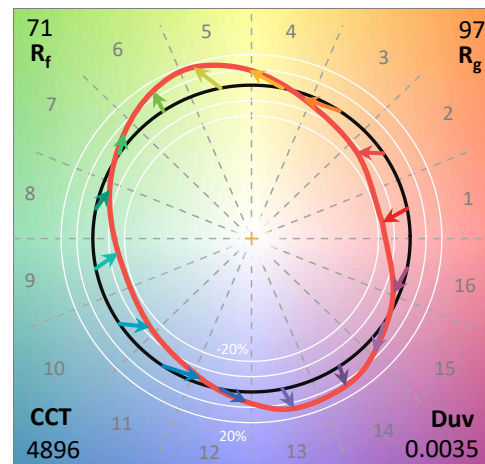
Data in this report applies to families of products including GSS-SB1A-750-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-6
 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-750-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K):	4896	CRI (Ra):	70.2		
CIE u':	0.2101	R1:	68.1	R9:	-35.1
CIE v':	0.4901	R2:	73.9	R10:	39.3
Duv:	0.0035	R3:	79.4	R11:	71.1
CIE x:	0.3489	R4:	72.1	R12:	43.8
CIE y:	0.3618	R5:	69.2	R13:	68.1
CIE z:	0.2893	R6:	65.7	R14:	88.4
Peak Wavelength (nm):	443	R7:	78.1	R15:	59.7
Dominant Wavelength (nm):	570	R8:	55.3		
Purity:	13.25435				
Rf:	70.7				
Rg:	96.8				



Test Conditions

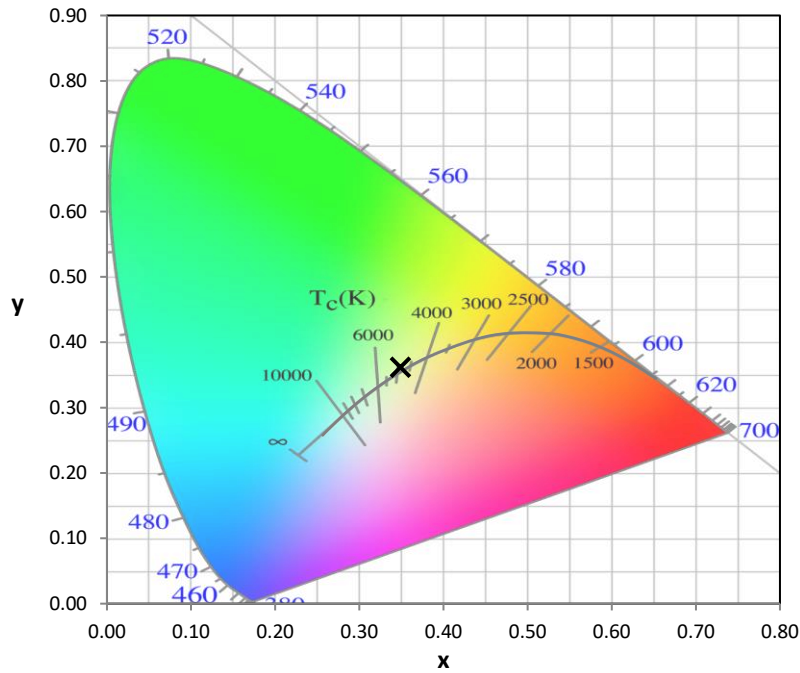
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-6

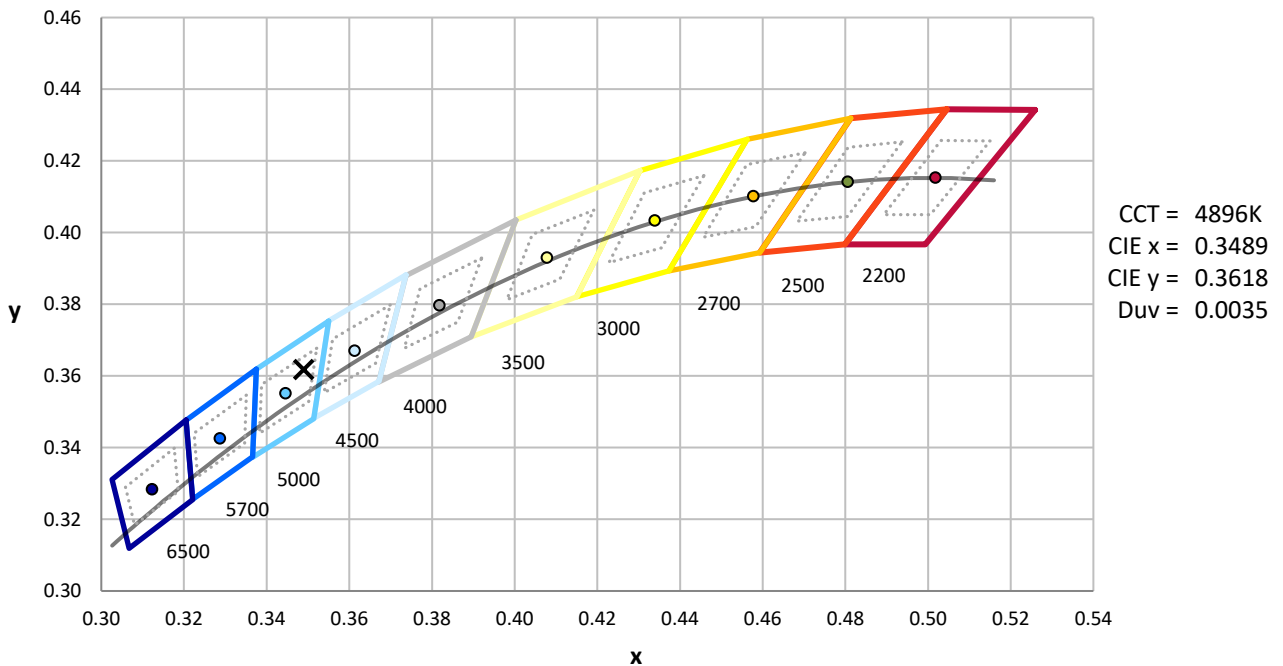
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



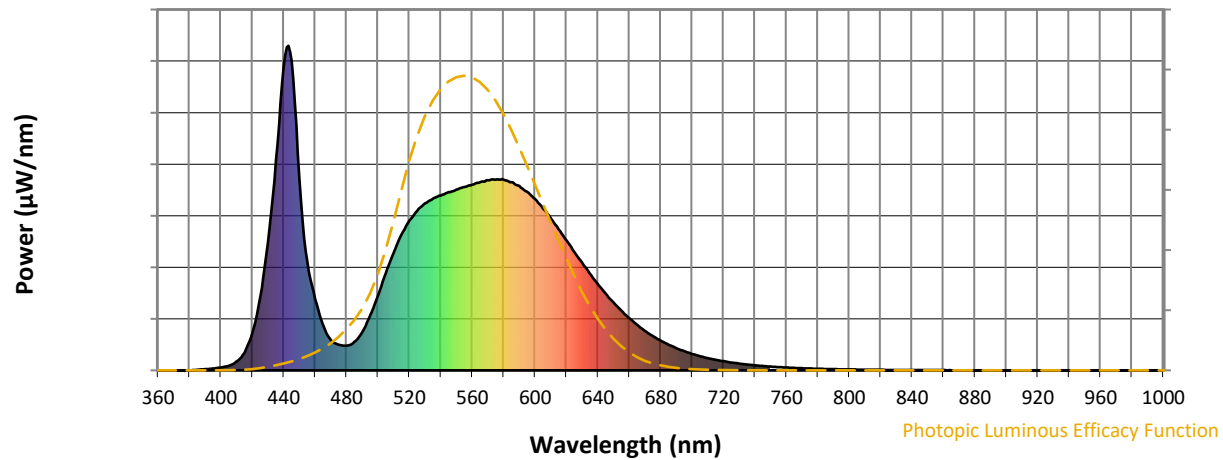
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-6

Photopic Flux vs. Wavelength

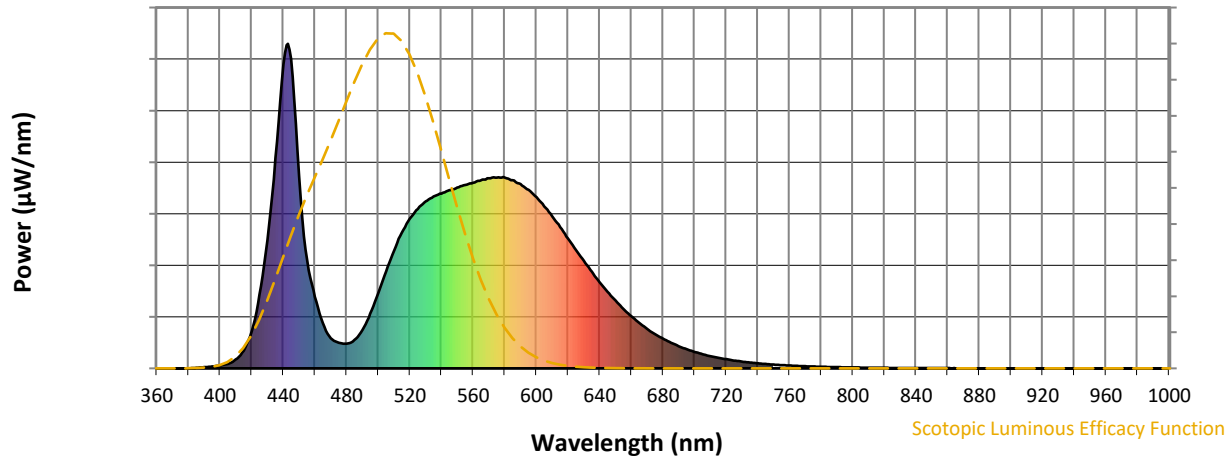


Photopic Lumens: NR

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	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-6

Scotopic Flux vs. Wavelength



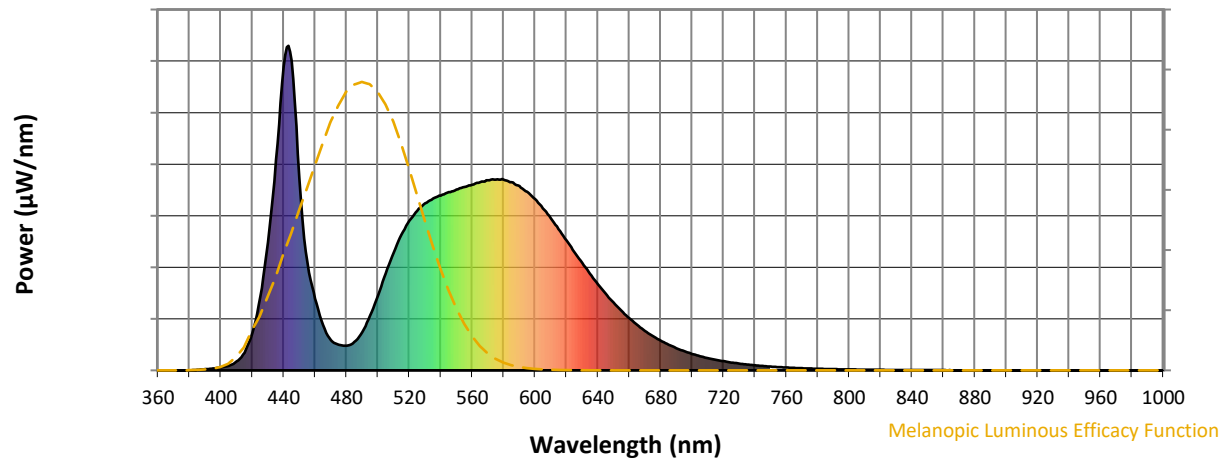
Scotopic Lumens: NR

S/P: 1.7

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	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.37

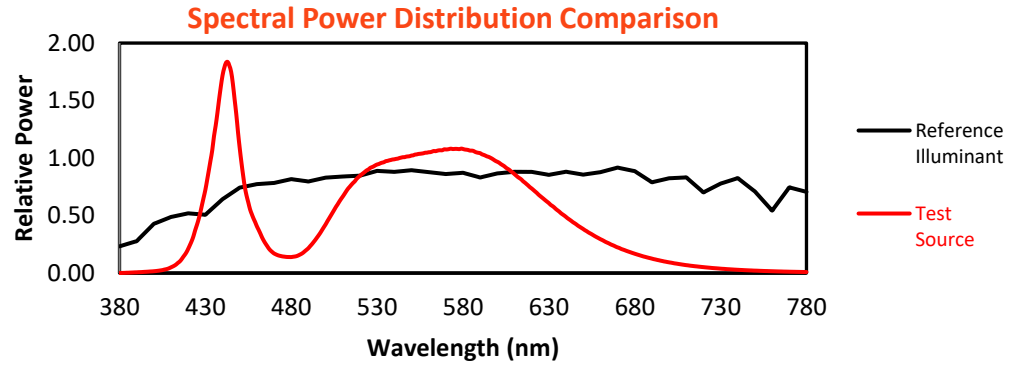
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-6

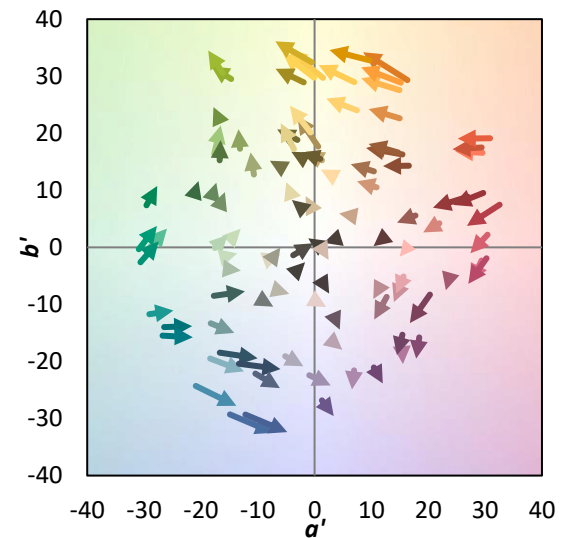
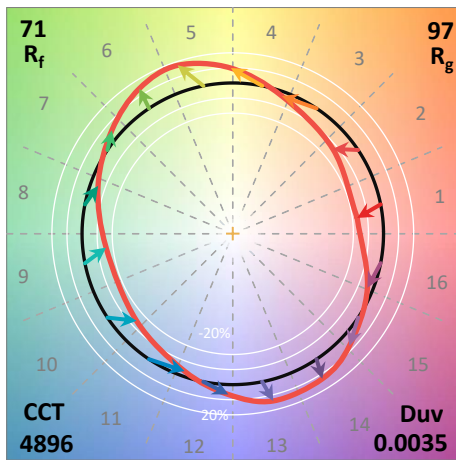
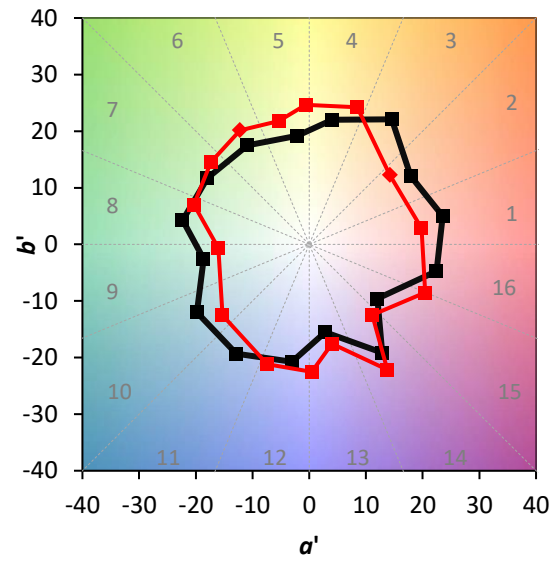
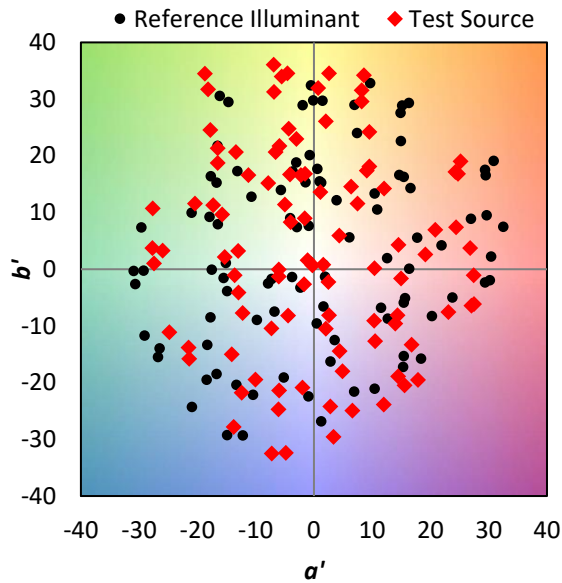
TM-30-18

Summary

$R_f = 70.7$
 $R_g = 96.8$
 $CIE R_a = 70.2$
 $R_g = -35.1$

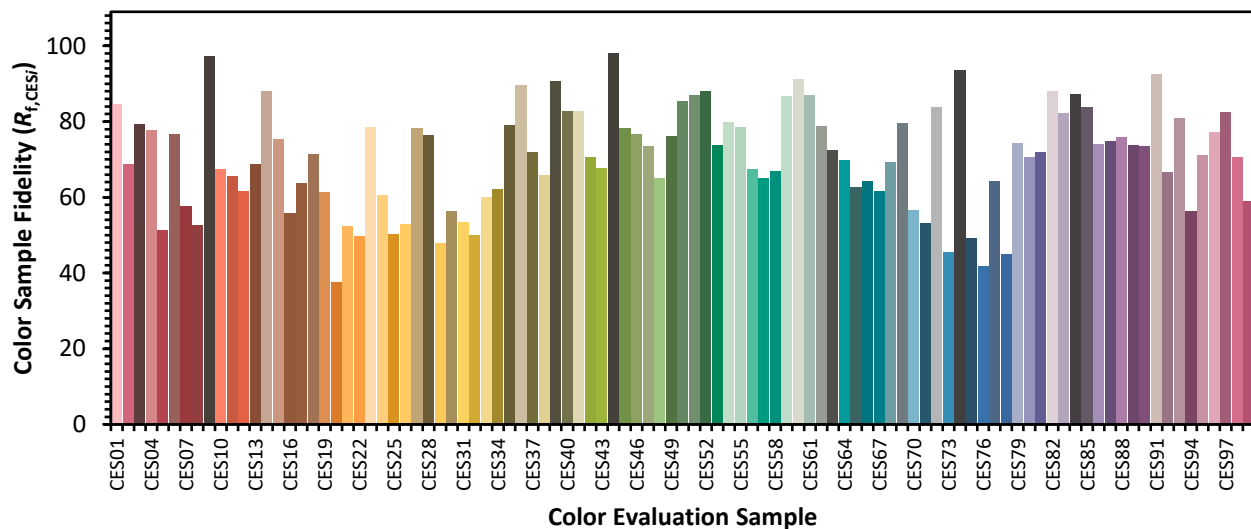


Color Vector Graphics

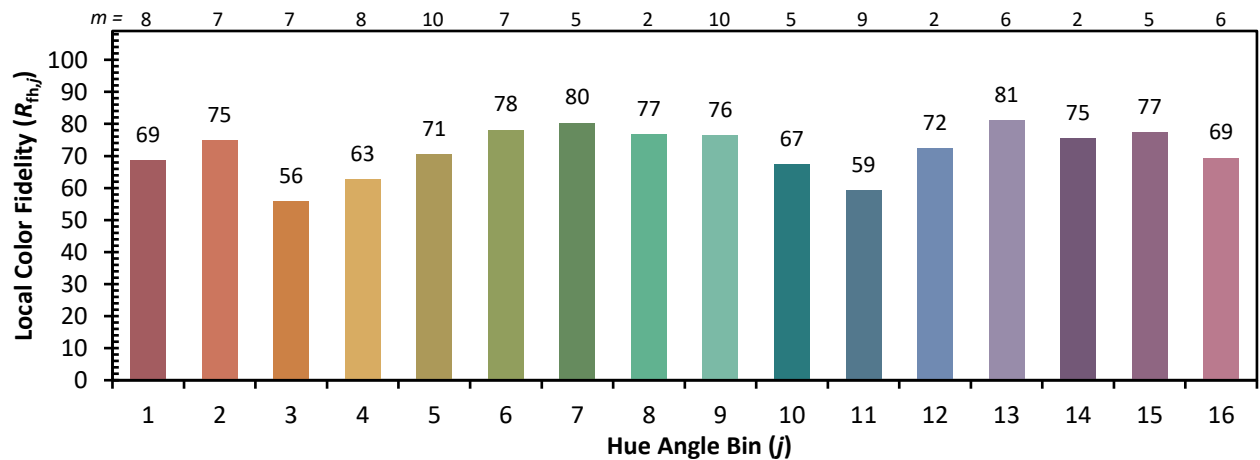
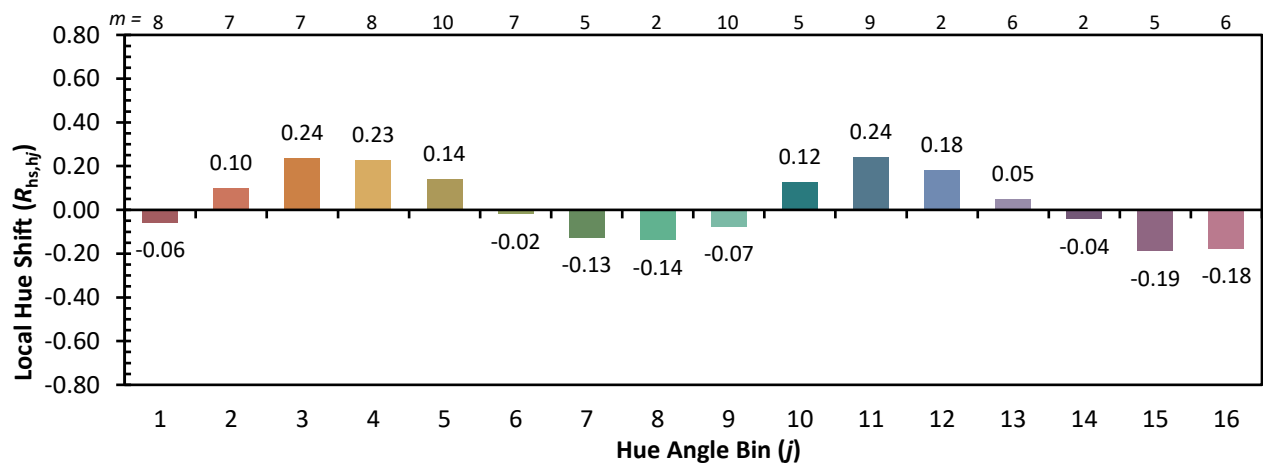
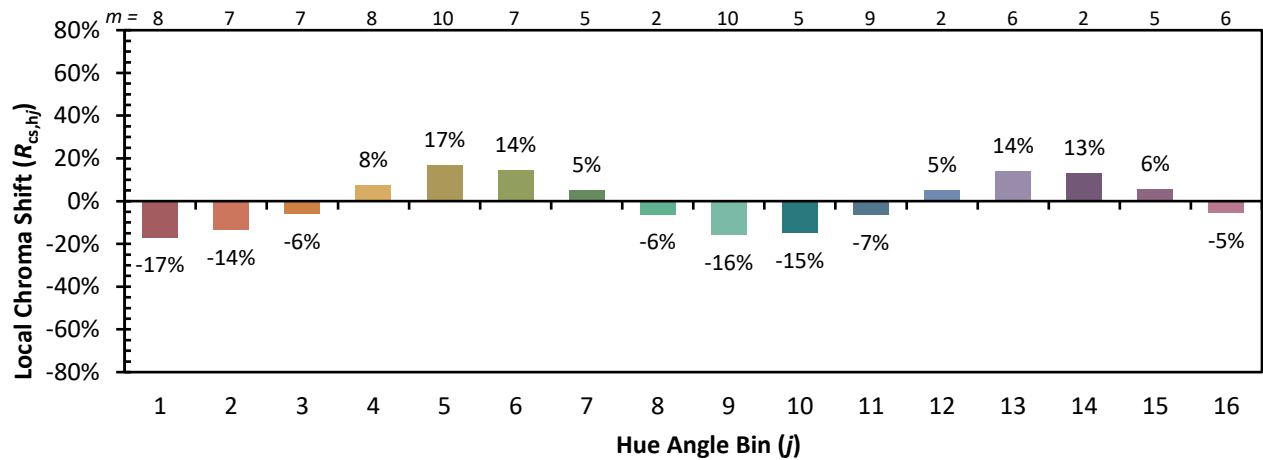


Individual Sample Fidelity Index ($R_{f,i}$)

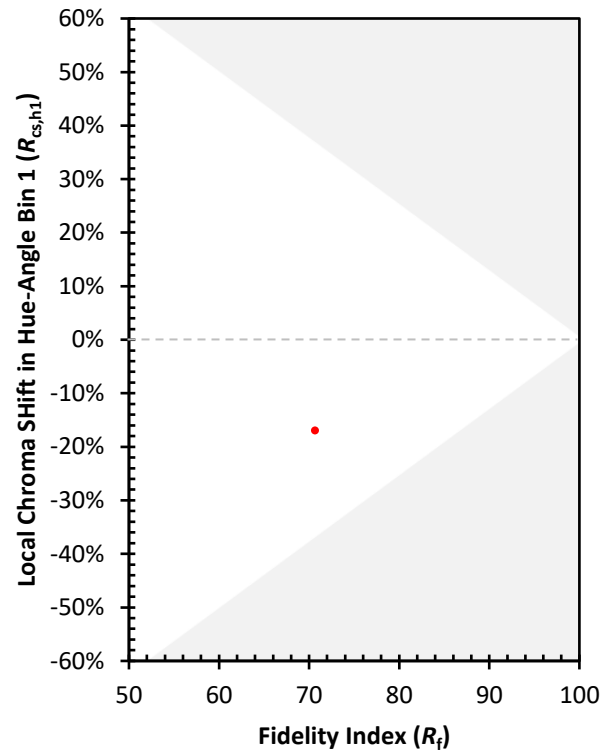
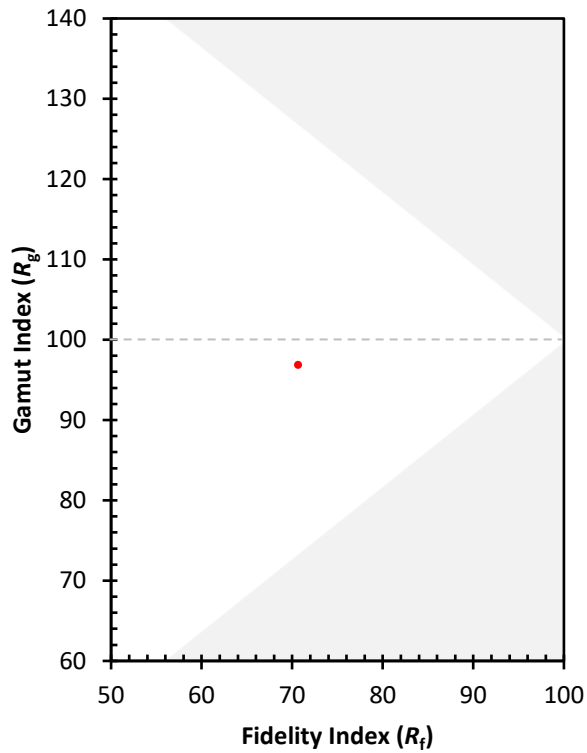
CES01 = 85	CES26 = 53	CES51 = 87	CES76 = 42
CES02 = 59	CES27 = 78	CES52 = 88	CES77 = 64
CES03 = 30	CES28 = 76	CES53 = 74	CES78 = 45
CES04 = 69	CES29 = 48	CES54 = 80	CES79 = 74
CES05 = 46	CES30 = 56	CES55 = 79	CES80 = 71
CES06 = 50	CES31 = 54	CES56 = 68	CES81 = 72
CES07 = 39	CES32 = 50	CES57 = 65	CES82 = 88
CES08 = 38	CES33 = 60	CES58 = 67	CES83 = 82
CES09 = 29	CES34 = 62	CES59 = 87	CES84 = 87
CES10 = 72	CES35 = 79	CES60 = 91	CES85 = 84
CES11 = 56	CES36 = 90	CES61 = 87	CES86 = 74
CES12 = 61	CES37 = 72	CES62 = 79	CES87 = 75
CES13 = 41	CES38 = 66	CES63 = 72	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 70	CES89 = 74
CES15 = 70	CES40 = 83	CES65 = 63	CES90 = 73
CES16 = 46	CES41 = 83	CES66 = 64	CES91 = 92
CES17 = 49	CES42 = 70	CES67 = 62	CES92 = 67
CES18 = 55	CES43 = 68	CES68 = 69	CES93 = 81
CES19 = 71	CES44 = 98	CES69 = 80	CES94 = 56
CES20 = 64	CES45 = 78	CES70 = 56	CES95 = 71
CES21 = 85	CES46 = 77	CES71 = 53	CES96 = 77
CES22 = 77	CES47 = 73	CES72 = 84	CES97 = 82
CES23 = 91	CES48 = 65	CES73 = 46	CES98 = 71
CES24 = 90	CES49 = 76	CES74 = 94	CES99 = 59
CES25 = 71	CES50 = 85	CES75 = 49	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)