

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: P1049665

Luminaire Tested: **GALN-SA7A-750-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049665
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-750-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 7xLight Square PACKAGE
70CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (98) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22815.9 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

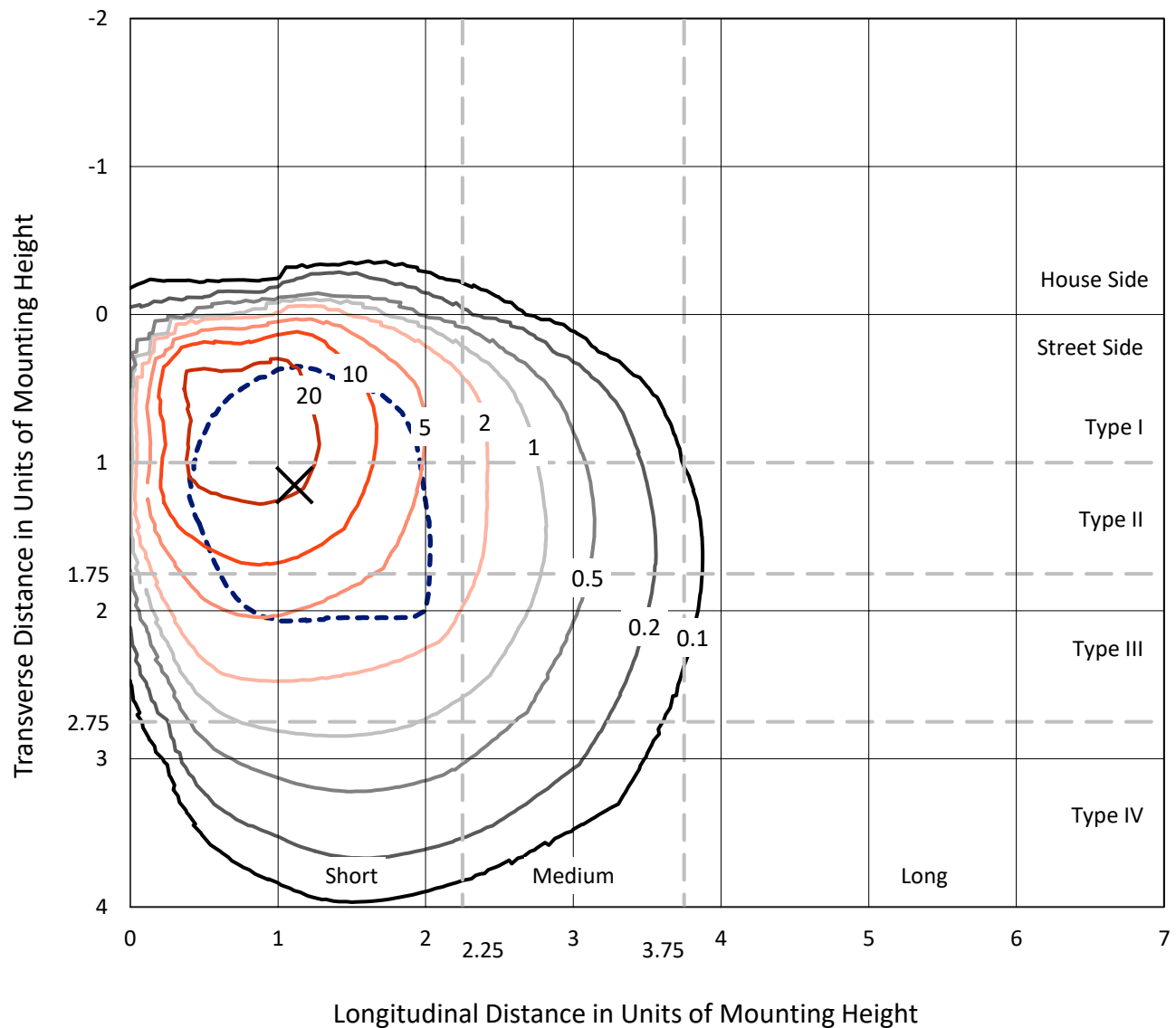
Input Watts (W): 193.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

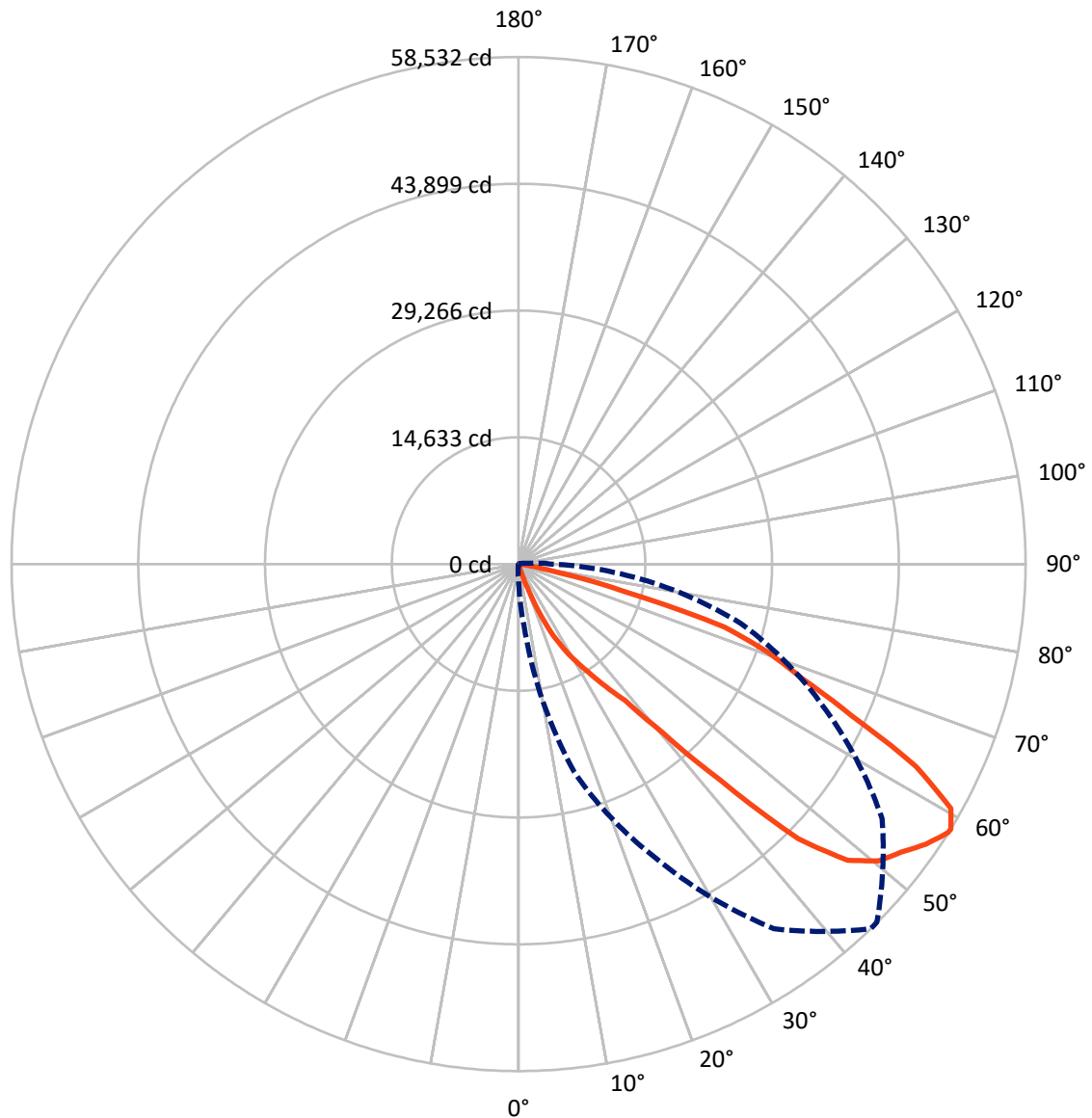
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 39.7 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	155.8	0.0	155.8
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	22660.1	0.0	22660.1
	% Fixture	99.3	0.0	99.3
Total	Lumens	22815.9	0.0	22815.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.9	0.0
10°-20°	50.0	0.2
20°-30°	540.5	2.4
30°-40°	1598.5	7.0
40°-50°	4764.3	20.9
50°-60°	7559.8	33.1
60°-70°	6305.8	27.6
70°-80°	1944.8	8.5
80°-90°	43.2	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°	22815.9	100.0
0°-180°	22815.9	100.0



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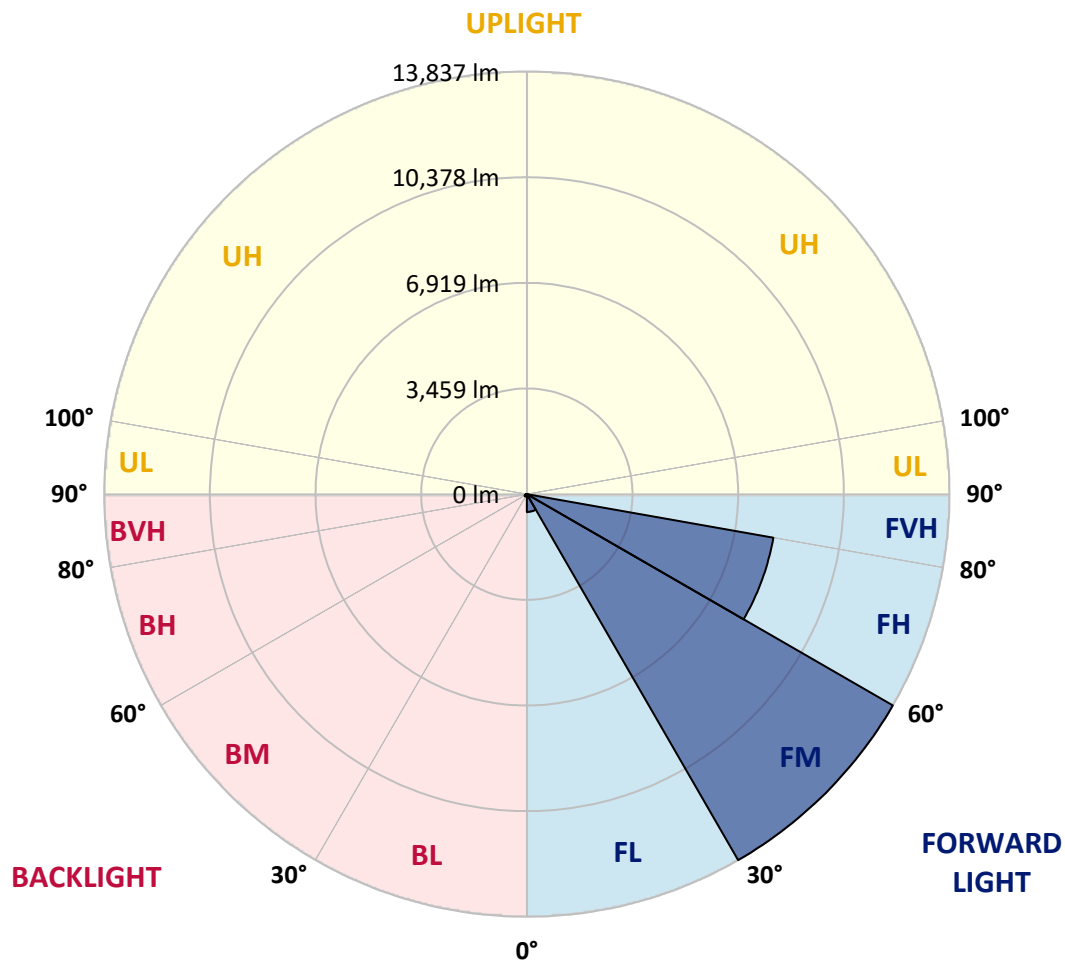
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	584.2	2.6			
FM	(30°-60°)	13837.4	60.6			
FH	(60°-80°)	8197.4	35.9			G4/12000
FVH	(80°-90°)	41.1	0.2			G1/100
BL	(0°-30°)	15.2	0.1	B0/110		
BM	(30°-60°)	85.3	0.4	B0/220		
BH	(60°-80°)	53.2	0.2	B0/110		G0/110
BVH	(80°-90°)	2.1	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°	44°	45°	55°	65°	75°
0°	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2.5°	129.3	129.3	124.1	117.2	110.3	103.4	101.7	98.2	96.5	94.8
5°	134.4	134.4	132.7	127.5	120.6	115.5	115.5	110.3	106.9	103.4
7.5°	137.9	139.6	143.1	141.3	137.9	132.7	132.7	129.3	124.1	115.5
10°	143.1	148.2	155.1	158.6	160.3	160.3	158.6	156.8	148.2	136.2
12.5°	148.2	158.6	175.8	193.0	203.4	217.2	215.4	212.0	189.6	163.7
15°	158.6	174.1	210.3	260.3	337.8	386.1	405.0	387.8	313.7	220.6
17.5°	170.6	196.5	305.1	544.6	892.8	1058.3	1158.2	1077.2	713.5	418.8
20°	182.7	239.6	567.0	1411.6	2316.5	2857.6	3007.6	2773.2	1780.4	798.0
22.5°	203.4	336.1	1149.6	2918.0	4991.4	5803.2	5956.6	5206.8	3362.6	1575.3
25°	246.5	487.8	1982.1	4755.3	7449.2	8819.4	8755.6	7773.2	5455.0	2516.4
27.5°	308.5	710.1	2997.3	6756.3	9803.5	11011.8	11156.5	9941.4	7271.7	3700.5
30°	398.1	984.1	4086.5	8359.2	11690.8	12997.3	13021.4	11764.9	8897.0	4739.8
32.5°	484.3	1242.7	5039.7	9908.7	13550.5	14982.8	15089.7	13543.7	10110.3	5822.1
35°	549.8	1411.6	6004.8	11270.3	15425.8	17399.2	17392.3	15556.8	11547.8	6789.1
37.5°	555.0	1580.5	6878.7	12662.9	17800.8	20010.4	20229.3	18205.9	13285.1	7985.2
40°	542.9	1770.1	7985.2	14834.6	22080.4	25470.6	25663.6	23112.8	16770.1	10032.8
42.5°	556.7	2099.3	9781.1	18845.3	29186.6	34055.6	34427.9	31746.1	23176.6	14210.7
45°	629.1	2718.0	13543.7	25555.1	39315.9	45251.8	45127.7	41265.2	30630.9	20570.6
47.5°	868.7	4233.0	19121.1	32085.6	45789.5	51075.7	51182.5	46461.7	34981.2	25460.3
50°	1335.8	6477.1	23807.4	35537.9	48573.1	53876.4	53776.5	48321.4	36634.0	27868.1
52.5°	1737.3	8100.7	26158.3	36749.5	48929.8	55260.4	55253.5	48810.9	36890.8	28074.9
55°	1837.3	8223.1	26177.3	36815.0	49729.6	57071.9	57299.4	50015.7	37223.5	27171.8
57.5°	1797.7	7280.3	25084.5	37194.2	51153.2	58473.1	58485.2	51182.5	38068.0	26618.5
58°	1763.2	7132.0	24863.9	37409.6	51398.0	58531.7	58502.4	51235.9	38755.7	26597.8
60°	1570.2	6192.7	24003.9	37959.4	51034.3	57328.7	57054.7	50069.1	38654.0	26385.8
62.5°	1234.1	4831.1	23157.6	37323.5	47135.6	51504.8	51618.6	44328.0	35238.0	25150.0
65°	982.4	3600.5	21392.7	32738.8	38814.3	42295.9	42719.9	36046.3	29412.4	21296.2
67.5°	782.5	2602.6	17945.6	26065.2	30713.6	35300.0	35608.5	30263.8	22787.0	16316.8
70°	636.0	1759.7	12387.1	19062.5	25332.7	30489.6	30508.5	25141.4	17008.0	10691.2
72.5°	563.6	1218.5	7190.6	13902.1	20541.3	24845.0	24343.4	20401.7	13071.4	6332.3
75°	487.8	808.3	3526.4	8498.8	12454.4	12538.8	12730.1	9464.0	6534.0	3011.0
77.5°	401.6	573.9	1389.2	2321.6	3734.9	4781.1	4958.7	3757.3	2173.4	741.1
80°	275.8	272.3	374.0	711.8	1068.6	1339.2	1249.6	966.9	568.8	284.4
82.5°	118.9	129.3	168.9	203.4	165.5	160.3	153.4	98.2	75.8	58.6
85°	37.9	34.5	36.2	36.2	29.3	22.4	22.4	10.3	0.0	0.0
87.5°	19.0	15.5	15.5	13.8	8.6	3.4	1.7	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°
100.0	0°	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
93.1	2.5°	91.3	91.3	87.9	84.5	82.7	79.3	77.6	75.8	74.1	72.4
100.0	5°	96.5	94.8	89.6	84.5	79.3	74.1	70.7	67.2	63.8	62.0
110.3	7.5°	105.1	101.7	91.3	82.7	75.8	68.9	65.5	60.3	56.9	51.7
122.4	10°	115.5	108.6	94.8	84.5	74.1	65.5	60.3	55.2	50.0	43.1
139.6	12.5°	129.3	117.2	100.0	82.7	70.7	60.3	55.2	48.3	43.1	37.9
162.0	15°	141.3	125.8	101.7	82.7	67.2	55.2	48.3	41.4	36.2	29.3
203.4	17.5°	158.6	132.7	100.0	77.6	62.0	48.3	41.4	36.2	27.6	17.2
301.6	20°	187.9	137.9	96.5	72.4	53.4	39.6	31.0	24.1	12.1	3.4
453.3	22.5°	234.4	151.7	93.1	65.5	46.5	31.0	20.7	8.6	0.0	0.0
689.4	25°	324.0	175.8	93.1	62.0	41.4	22.4	6.9	0.0	0.0	0.0
979.0	27.5°	430.9	208.5	93.1	53.4	32.7	12.1	0.0	0.0	0.0	0.0
1334.0	30°	539.5	244.7	93.1	46.5	25.9	1.7	0.0	0.0	0.0	0.0
1642.5	32.5°	642.9	275.8	94.8	39.6	17.2	0.0	0.0	0.0	0.0	0.0
2070.0	35°	748.0	280.9	93.1	34.5	10.3	0.0	0.0	0.0	0.0	0.0
2593.9	37.5°	882.5	270.6	87.9	31.0	5.2	0.0	0.0	0.0	0.0	0.0
3412.6	40°	1085.8	275.8	82.7	29.3	1.7	0.0	0.0	0.0	0.0	0.0
4872.5	42.5°	1461.6	298.2	75.8	29.3	0.0	0.0	0.0	0.0	0.0	0.0
7761.1	45°	2526.7	399.9	68.9	31.0	0.0	0.0	0.0	0.0	0.0	0.0
11651.2	47.5°	4179.6	718.7	67.2	31.0	0.0	0.0	0.0	0.0	0.0	0.0
14034.9	50°	5334.4	904.9	70.7	32.7	0.0	0.0	0.0	0.0	0.0	0.0
14333.0	52.5°	5325.8	1008.3	74.1	34.5	6.9	0.0	0.0	0.0	0.0	0.0
13211.0	55°	4734.6	1027.2	79.3	37.9	22.4	0.0	0.0	0.0	0.0	0.0
11353.0	57.5°	3957.3	937.6	91.3	46.5	41.4	0.0	0.0	0.0	0.0	0.0
11061.7	58°	3819.4	896.2	94.8	48.3	44.8	0.0	0.0	0.0	0.0	0.0
9595.0	60°	3130.0	730.8	120.6	60.3	60.3	0.0	0.0	0.0	0.0	0.0
7866.3	62.5°	2161.3	637.7	137.9	77.6	62.0	0.0	0.0	0.0	0.0	0.0
5799.7	65°	1528.8	575.7	149.9	82.7	50.0	0.0	0.0	0.0	0.0	0.0
4121.0	67.5°	1142.7	530.9	165.5	84.5	25.9	0.0	0.0	0.0	0.0	0.0
2585.3	70°	875.6	498.1	203.4	89.6	6.9	0.0	0.0	0.0	0.0	0.0
1540.9	72.5°	713.5	460.2	246.5	93.1	0.0	0.0	0.0	0.0	0.0	0.0
923.8	75°	591.2	415.4	237.8	101.7	0.0	0.0	0.0	0.0	0.0	0.0
492.9	77.5°	393.0	322.3	217.2	101.7	0.0	0.0	0.0	0.0	0.0	0.0
175.8	80°	137.9	127.5	168.9	89.6	0.0	0.0	0.0	0.0	0.0	0.0
36.2	82.5°	20.7	17.2	24.1	31.0	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

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CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
100.0	0°	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
70.7	2.5°	70.7	70.7	68.9	70.7	70.7	74.1	82.7	94.8	108.6	113.8
60.3	5°	58.6	56.9	55.2	55.2	55.2	60.3	67.2	81.0	96.5	103.4
50.0	7.5°	48.3	46.5	44.8	43.1	43.1	46.5	55.2	70.7	86.2	93.1
41.4	10°	39.6	36.2	34.5	32.7	32.7	36.2	44.8	60.3	77.6	84.5
34.5	12.5°	32.7	27.6	24.1	22.4	20.7	25.9	34.5	48.3	67.2	75.8
25.9	15°	22.4	17.2	12.1	10.3	8.6	13.8	22.4	37.9	56.9	67.2
13.8	17.5°	12.1	5.2	1.7	0.0	0.0	3.4	10.3	27.6	46.5	55.2
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.8	34.5	43.1
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	20.7	29.3
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	15.5
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
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	5.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	13.8
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°
100.0	0°	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
118.9	2.5°	122.4	120.6	117.2	113.8	113.8	113.8	118.9	124.1	129.3	129.3
106.9	5°	113.8	113.8	112.0	108.6	108.6	110.3	117.2	125.8	132.7	134.4
98.2	7.5°	105.1	108.6	105.1	103.4	105.1	106.9	113.8	124.1	134.4	137.9
91.3	10°	100.0	101.7	101.7	100.0	100.0	103.4	110.3	124.1	137.9	143.1
82.7	12.5°	93.1	96.5	94.8	94.8	94.8	98.2	106.9	122.4	141.3	148.2
74.1	15°	86.2	91.3	91.3	89.6	89.6	91.3	103.4	120.6	146.5	158.6
63.8	17.5°	79.3	84.5	86.2	82.7	82.7	86.2	98.2	120.6	149.9	170.6
51.7	20°	65.5	74.1	79.3	74.1	74.1	77.6	89.6	113.8	151.7	182.7
37.9	22.5°	51.7	60.3	67.2	65.5	65.5	67.2	82.7	108.6	153.4	203.4
22.4	25°	37.9	46.5	51.7	55.2	55.2	60.3	75.8	105.1	160.3	246.5
10.3	27.5°	22.4	32.7	39.6	43.1	44.8	51.7	70.7	101.7	172.4	308.5
0.0	30°	10.3	19.0	27.6	34.5	34.5	46.5	65.5	98.2	187.9	398.1
0.0	32.5°	0.0	8.6	13.8	24.1	25.9	37.9	60.3	94.8	210.3	484.3
0.0	35°	0.0	0.0	6.9	19.0	19.0	31.0	55.2	91.3	244.7	549.8
0.0	37.5°	0.0	0.0	0.0	13.8	15.5	27.6	53.4	89.6	251.6	555.0
0.0	40°	0.0	0.0	0.0	10.3	12.1	25.9	53.4	91.3	227.5	542.9
0.0	42.5°	0.0	0.0	0.0	6.9	8.6	25.9	53.4	94.8	205.1	556.7
0.0	45°	0.0	0.0	0.0	5.2	6.9	27.6	51.7	93.1	193.0	629.1
0.0	47.5°	0.0	0.0	0.0	6.9	10.3	27.6	50.0	91.3	194.8	868.7
0.0	50°	0.0	0.0	0.0	8.6	12.1	27.6	51.7	87.9	213.7	1335.8
0.0	52.5°	0.0	0.0	0.0	6.9	10.3	31.0	56.9	86.2	232.7	1737.3
0.0	55°	0.0	0.0	0.0	1.7	5.2	39.6	62.0	86.2	262.0	1837.3
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	44.8	70.7	91.3	310.2	1797.7
0.0	58°	0.0	0.0	0.0	0.0	0.0	44.8	72.4	91.3	313.7	1763.2
0.0	60°	0.0	0.0	0.0	0.0	0.0	44.8	79.3	101.7	337.8	1570.2
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	37.9	94.8	127.5	351.6	1234.1
0.0	65°	0.0	0.0	0.0	0.0	0.0	31.0	112.0	139.6	361.9	982.4
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	29.3	115.5	141.3	367.1	782.5
0.0	70°	0.0	0.0	0.0	0.0	0.0	31.0	113.8	151.7	384.4	636.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	34.5	103.4	167.2	384.4	563.6
0.0	75°	0.0	0.0	0.0	0.0	0.0	36.2	96.5	187.9	349.9	487.8
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	34.5	94.8	218.9	312.0	401.6
0.0	80°	3.4	5.2	5.2	3.4	3.4	29.3	93.1	222.3	265.4	275.8
1.7	82.5°	10.3	13.8	12.1	8.6	8.6	25.9	82.7	186.1	137.9	118.9
10.3	85°	19.0	22.4	22.4	19.0	19.0	24.1	51.7	67.2	46.5	37.9
19.0	87.5°	25.9	29.3	29.3	25.9	25.9	24.1	22.4	20.7	19.0	19.0
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

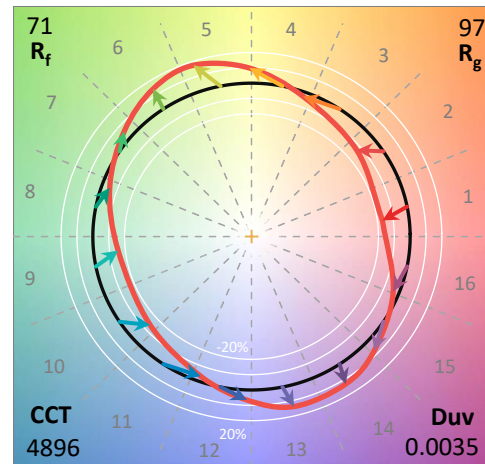
Data in this report applies to families of products including GSS-SB1A-750-U-5WQ

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

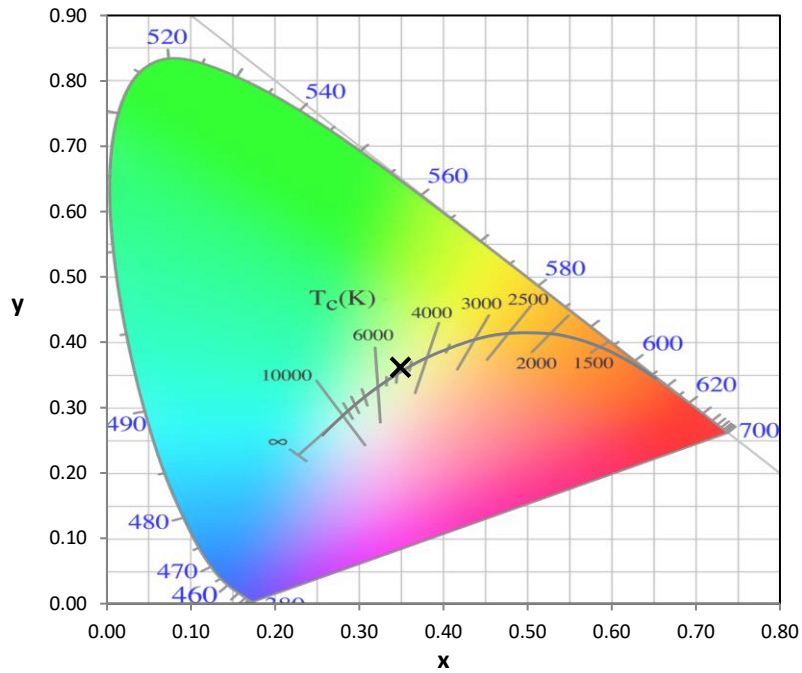
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-6

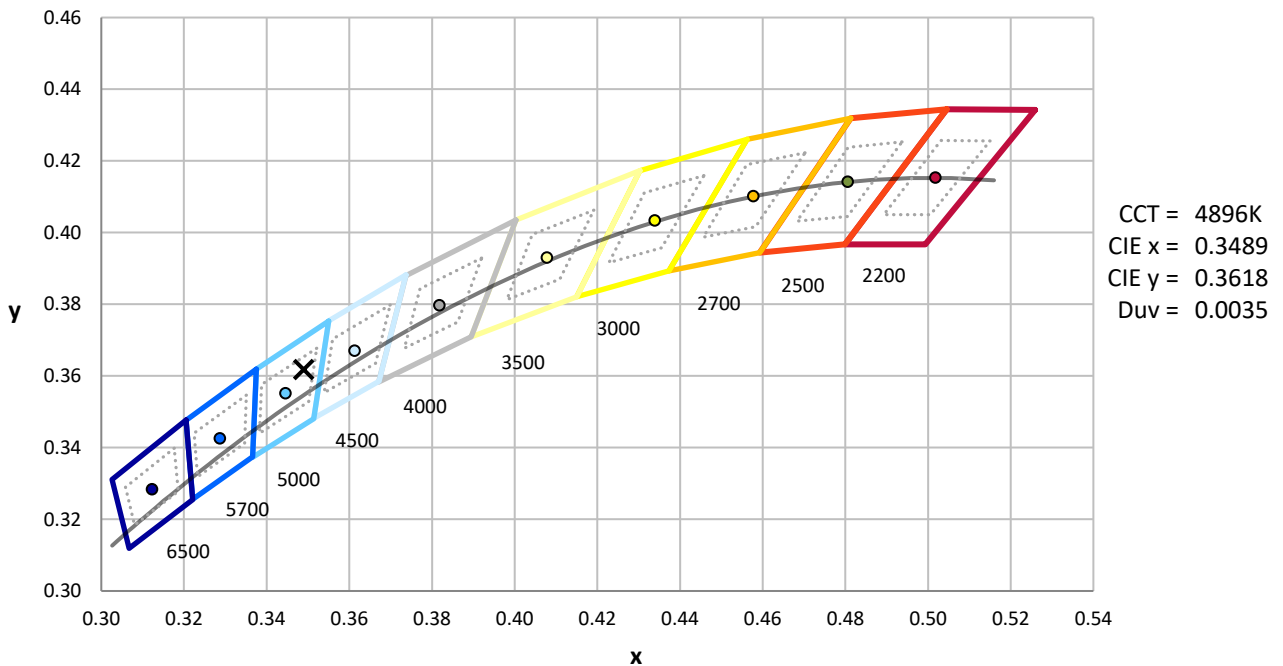
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



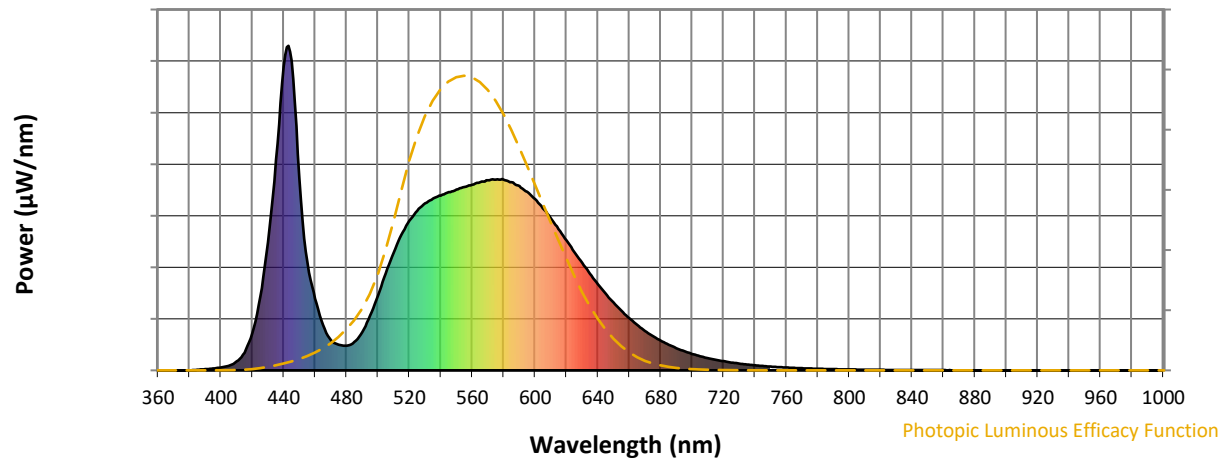
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-6

Photopic Flux vs. Wavelength

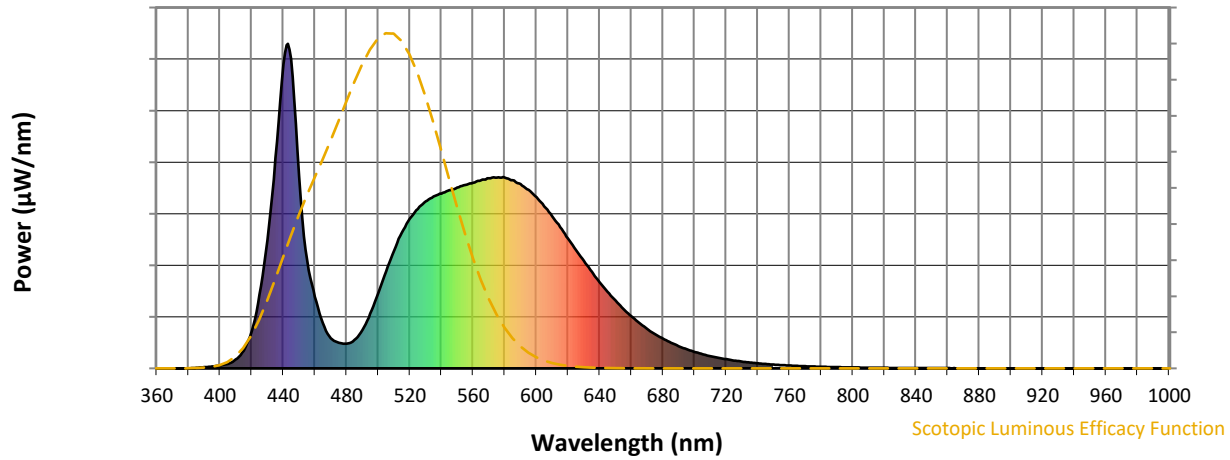


Photopic Lumens: NR

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



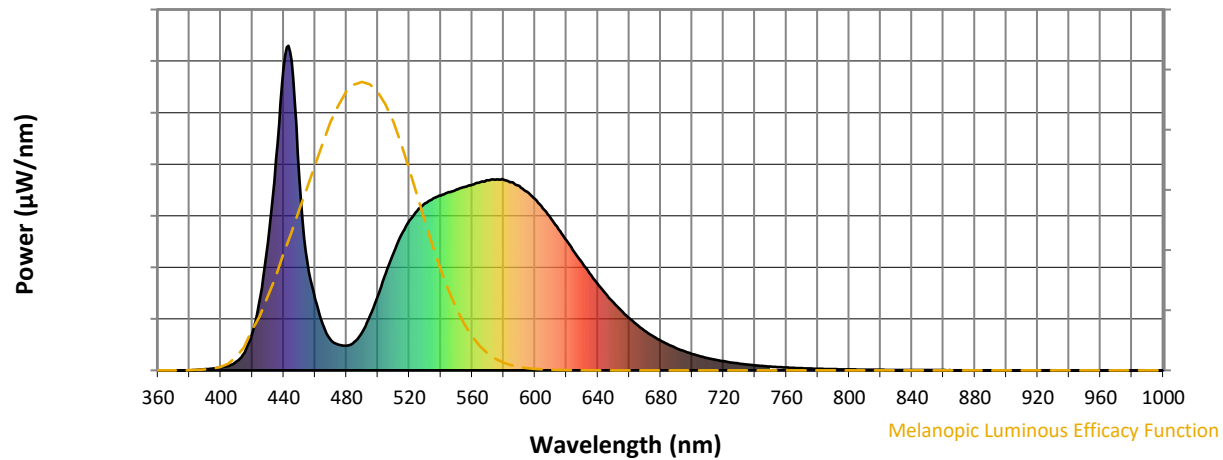
Scotopic Lumens: NR

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

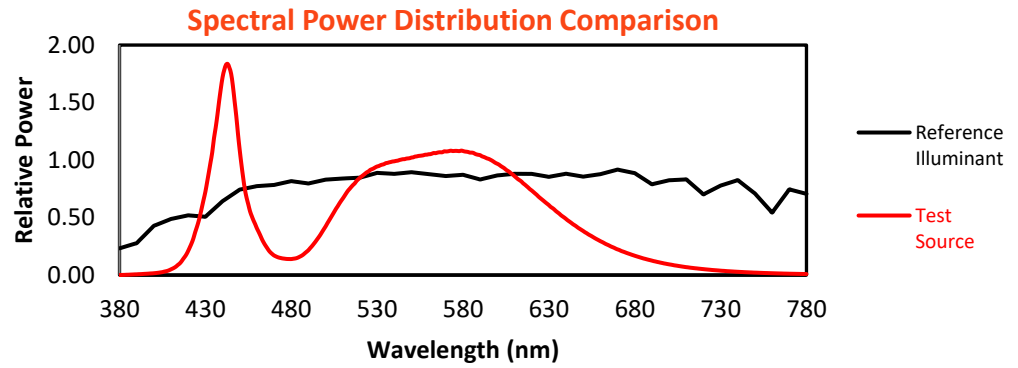
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	118	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

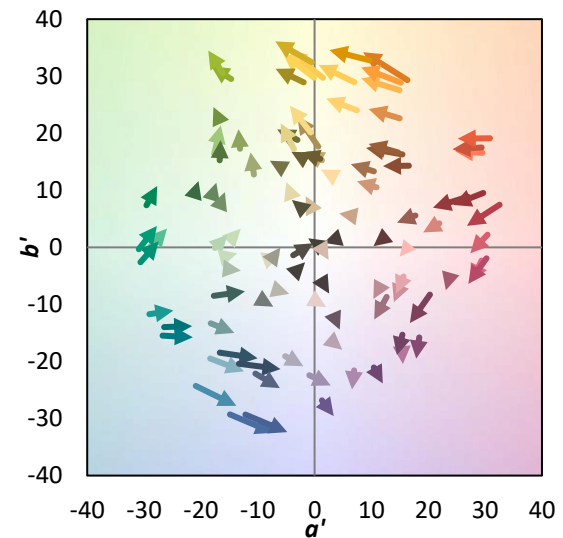
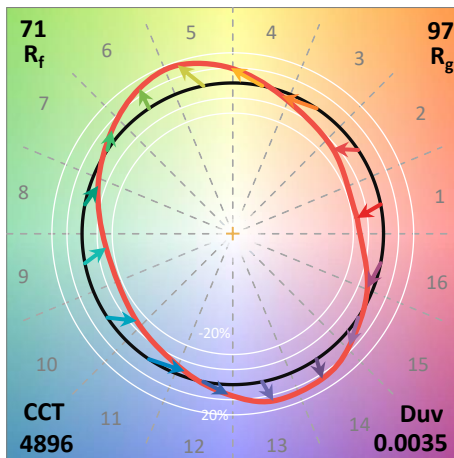
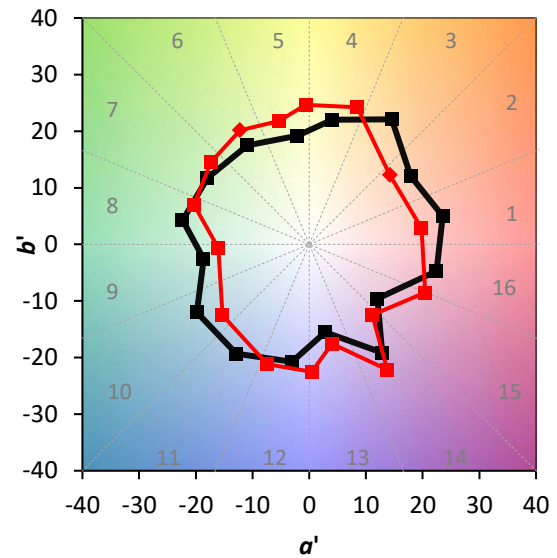
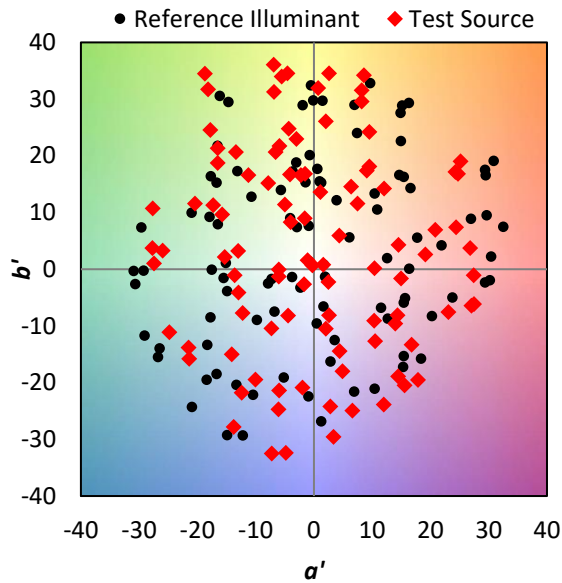
TM-30-18

Summary

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

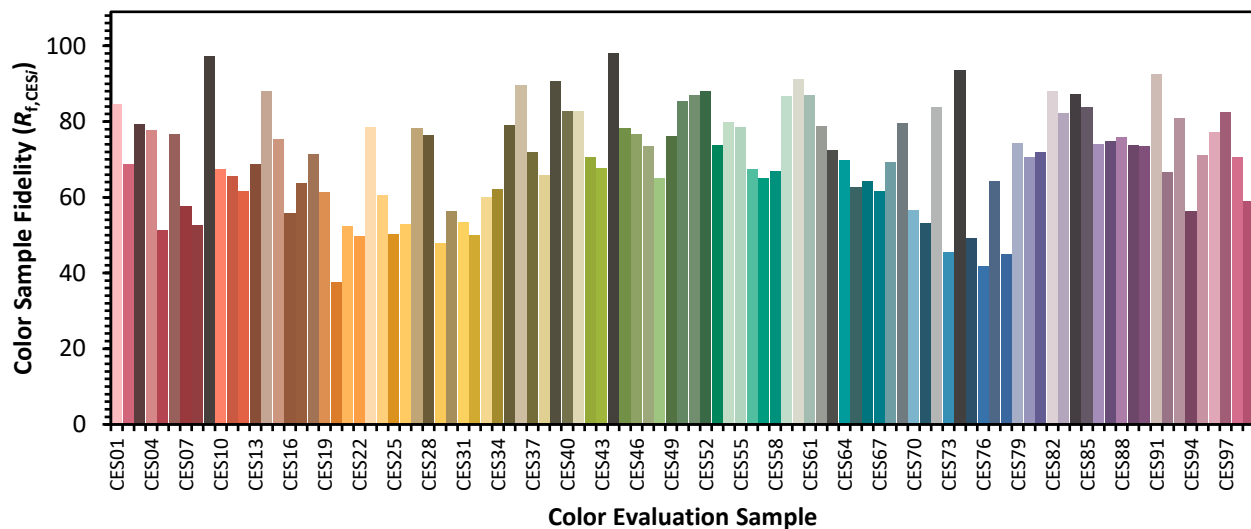


Color Vector Graphics

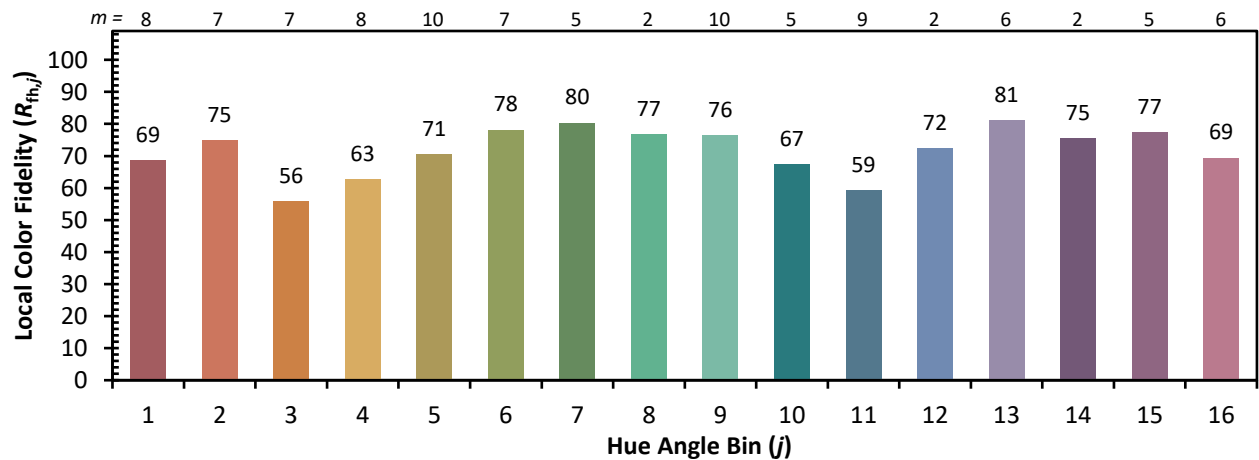
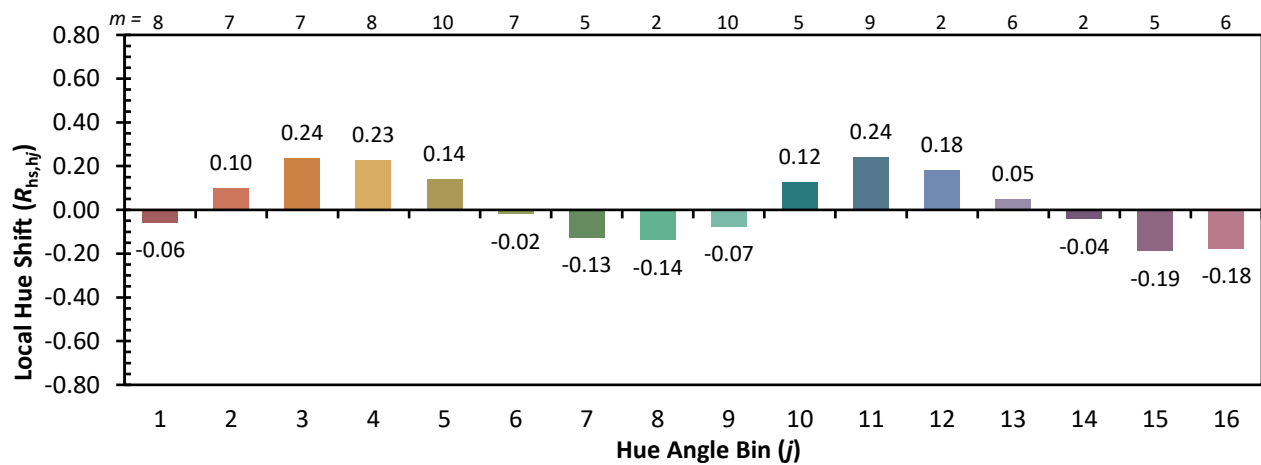
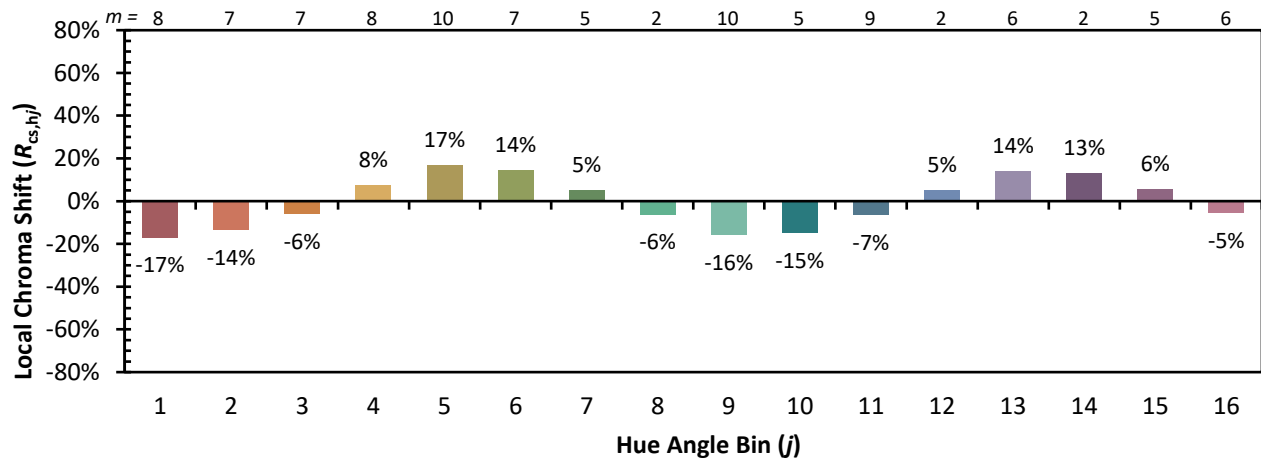


Individual Sample Fidelity Index ($R_{f,i}$)

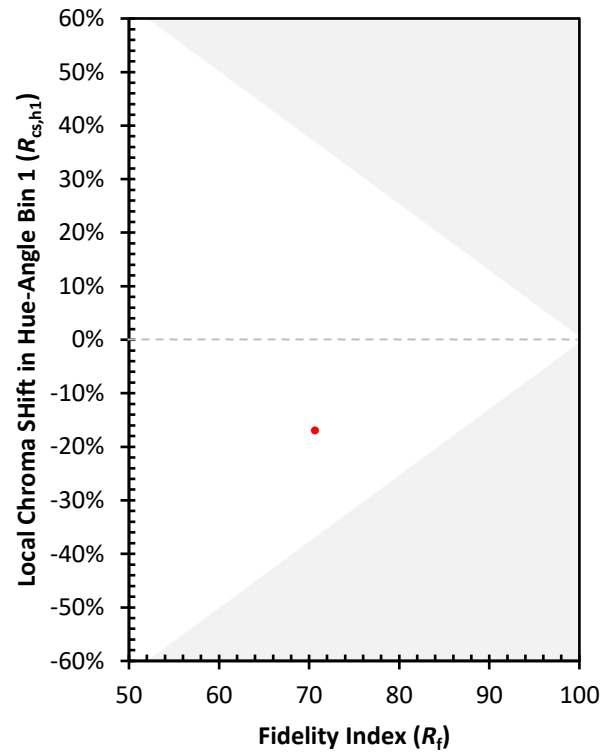
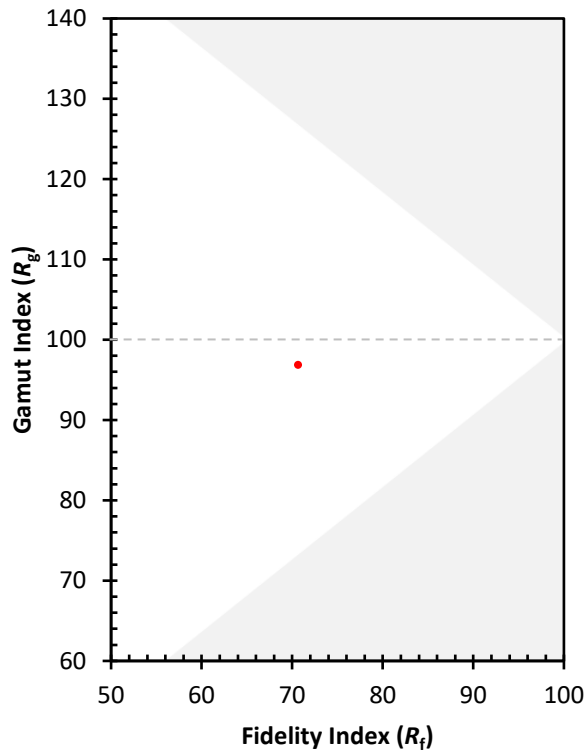
CES01 = 85	CES26 = 53	CES51 = 87	CES76 = 42
CES02 = 59	CES27 = 78	CES52 = 88	CES77 = 64
CES03 = 30	CES28 = 76	CES53 = 74	CES78 = 45
CES04 = 69	CES29 = 48	CES54 = 80	CES79 = 74
CES05 = 46	CES30 = 56	CES55 = 79	CES80 = 71
CES06 = 50	CES31 = 54	CES56 = 68	CES81 = 72
CES07 = 39	CES32 = 50	CES57 = 65	CES82 = 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)