

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: P1049617

Luminaire Tested: **GALN-SA4A-735-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049617
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-735-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 4xLight Square PACKAGE
70CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13077.2 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

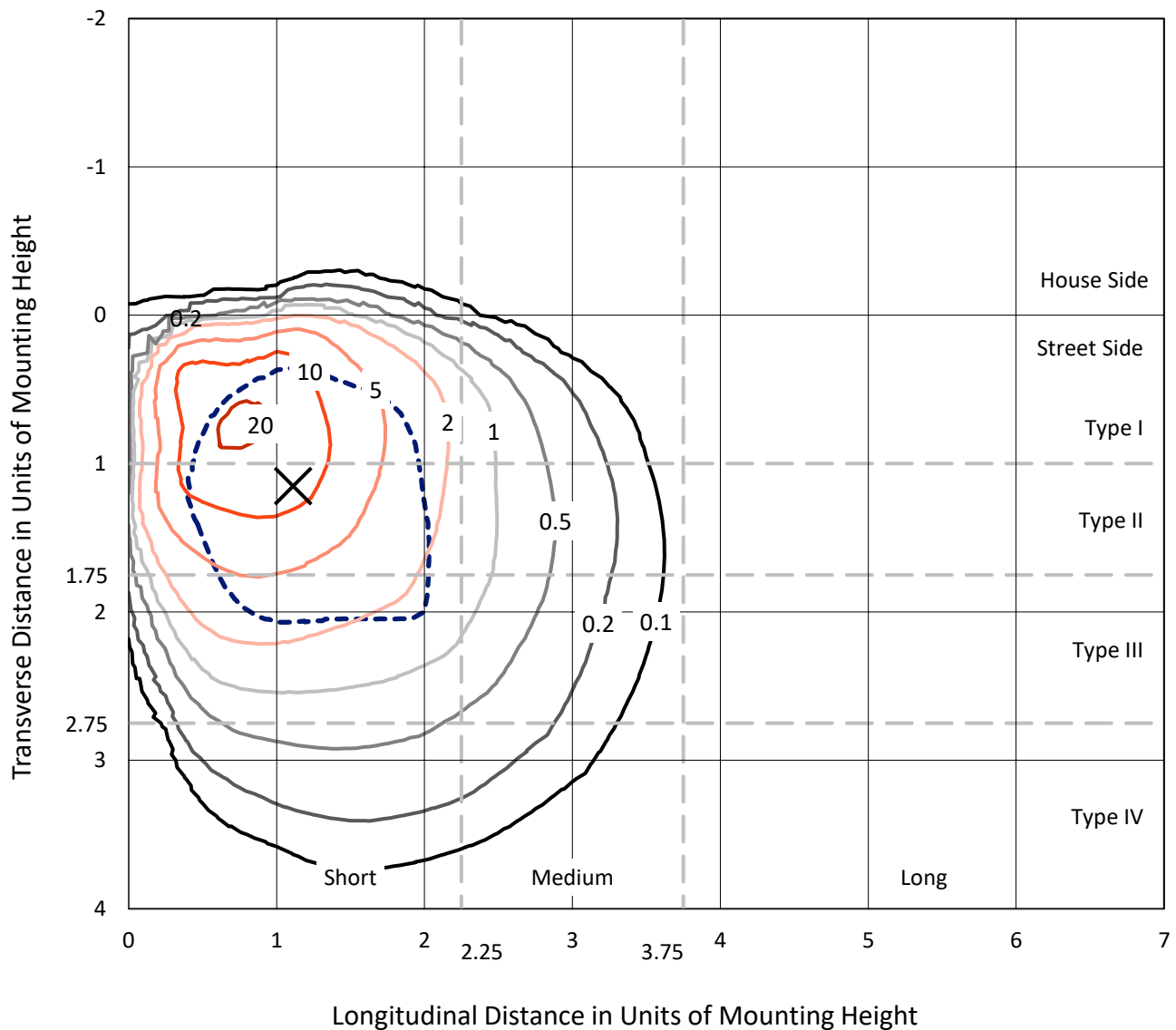
Input Watts (W): 107.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

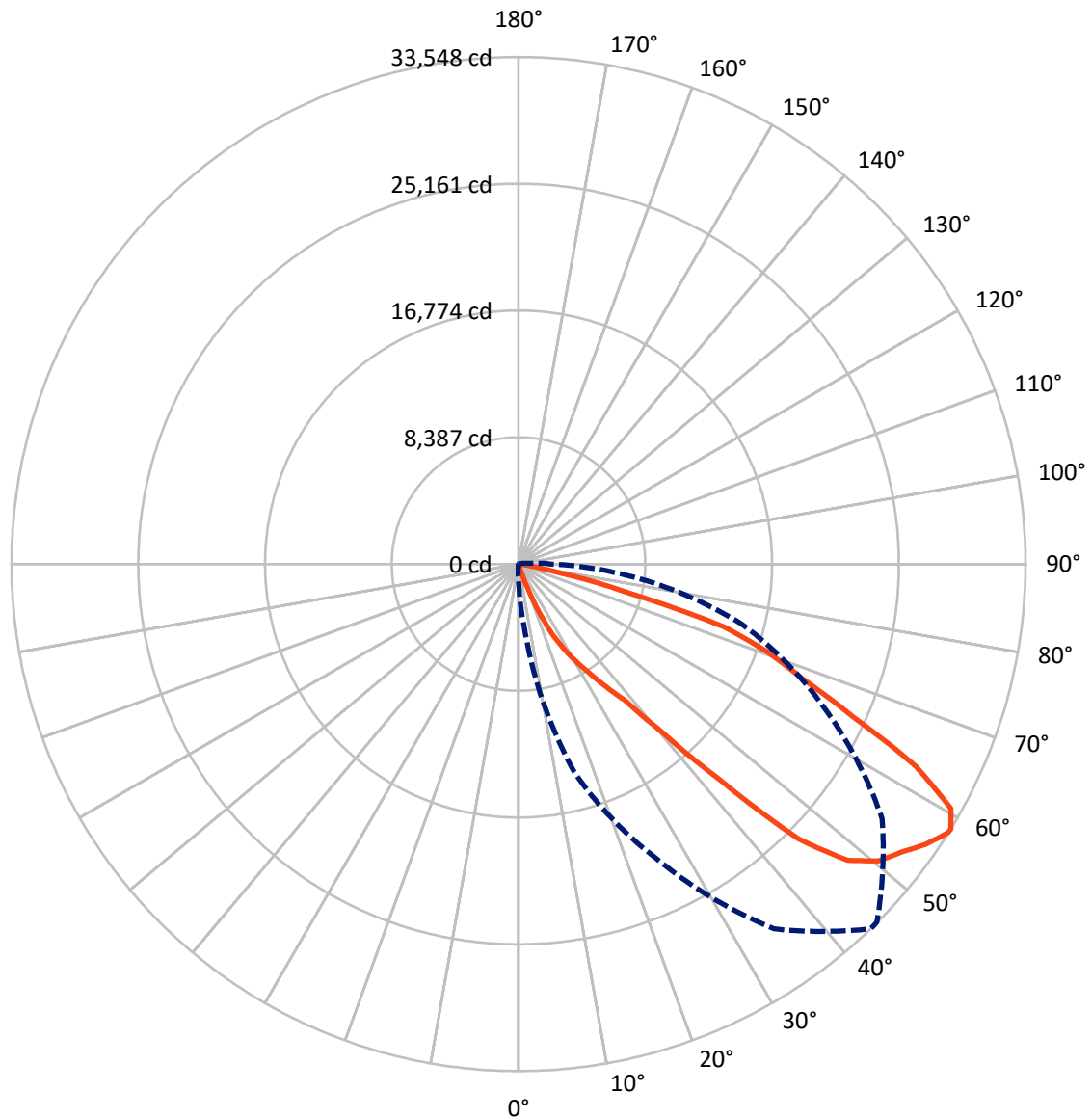
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 22.8 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	89.3	0.0	89.3
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	12987.9	0.0	12987.9
	% Fixture	99.3	0.0	99.3
Total	Lumens	13077.2	0.0	13077.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.1	0.0
10°-20°	28.7	0.2
20°-30°	309.8	2.4
30°-40°	916.2	7.0
40°-50°	2730.7	20.9
50°-60°	4333.0	33.1
60°-70°	3614.3	27.6
70°-80°	1114.7	8.5
80°-90°	24.8	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°	13077.2	100.0
0°-180°	13077.2	100.0



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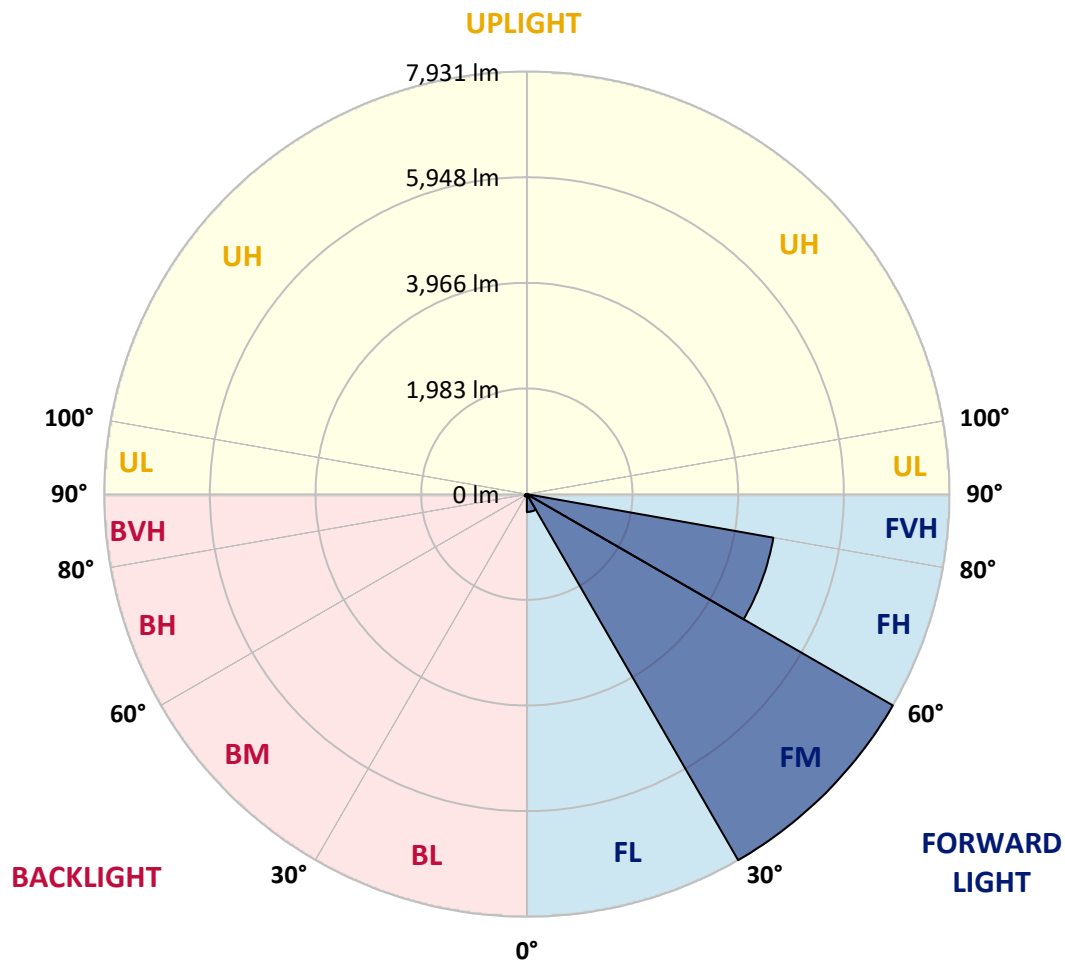
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	334.9	2.6			
FM	(30°-60°)	7931.1	60.6			
FH	(60°-80°)	4698.5	35.9			G2/5000
FVH	(80°-90°)	23.6	0.2			G1/100
BL	(0°-30°)	8.7	0.1	B0/110		
BM	(30°-60°)	48.9	0.4	B0/220		
BH	(60°-80°)	30.5	0.2	B0/110		G0/110
BVH	(80°-90°)	1.2	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°
0°	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
2.5°	74.1	74.1	71.1	67.2	63.2	59.3	58.3	56.3	55.3	54.3
5°	77.1	77.1	76.1	73.1	69.2	66.2	66.2	63.2	61.2	59.3
7.5°	79.0	80.0	82.0	81.0	79.0	76.1	76.1	74.1	71.1	66.2
10°	82.0	85.0	88.9	90.9	91.9	91.9	90.9	89.9	85.0	78.0
12.5°	85.0	90.9	100.8	110.6	116.6	124.5	123.5	121.5	108.7	93.8
15°	90.9	99.8	120.5	149.2	193.6	221.3	232.2	222.3	179.8	126.4
17.5°	97.8	112.6	174.9	312.2	511.7	606.6	663.9	617.4	409.0	240.1
20°	104.7	137.3	325.0	809.1	1327.7	1637.9	1723.8	1589.5	1020.5	457.4
22.5°	116.6	192.6	658.9	1672.5	2860.9	3326.2	3414.1	2984.4	1927.3	902.9
25°	141.3	279.6	1136.1	2725.5	4269.6	5055.0	5018.4	4455.3	3126.6	1442.3
27.5°	176.8	407.0	1717.9	3872.5	5619.0	6311.5	6394.5	5698.1	4167.8	2121.0
30°	228.2	564.1	2342.2	4791.2	6700.8	7449.6	7463.4	6743.2	5099.4	2716.7
32.5°	277.6	712.3	2888.5	5679.3	7766.7	8587.6	8648.8	7762.7	5794.9	3337.0
35°	315.1	809.1	3441.8	6459.7	8841.5	9972.6	9968.6	8916.6	6618.8	3891.2
37.5°	318.1	905.9	3942.6	7257.9	10202.8	11469.2	11594.7	10434.9	7614.5	4576.8
40°	311.2	1014.5	4576.8	8502.6	12655.7	14598.8	14709.4	13247.4	9612.0	5750.4
42.5°	319.1	1203.2	5606.2	10801.4	16728.7	19519.4	19732.8	18195.7	13283.9	8145.0
45°	360.6	1557.9	7762.7	14647.2	22534.4	25936.6	25865.5	23651.7	17556.5	11790.3
47.5°	497.9	2426.2	10959.5	18390.3	26244.9	29274.7	29335.9	26630.1	20049.9	14592.9
50°	765.6	3712.4	13645.5	20369.0	27840.3	30880.0	30822.7	27696.0	20997.3	15972.9
52.5°	995.8	4643.0	14993.0	21063.5	28044.8	31673.2	31669.3	27976.6	21144.5	16091.5
55°	1053.1	4713.1	15003.8	21101.0	28503.1	32711.5	32841.9	28667.1	21335.1	15573.8
57.5°	1030.4	4172.8	14377.5	21318.3	29319.1	33514.6	33521.5	29335.9	21819.2	15256.7
58°	1010.6	4087.8	14251.1	21441.8	29459.4	33548.2	33531.4	29366.5	22213.3	15244.9
60°	900.0	3549.4	13758.1	21756.9	29251.0	32858.7	32701.6	28697.7	22155.1	15123.4
62.5°	707.3	2769.0	13273.1	21392.4	27016.4	29520.6	29585.8	25407.1	20197.1	14415.1
65°	563.1	2063.7	12261.5	18764.7	22246.9	24242.4	24485.4	20660.4	16858.1	12206.2
67.5°	448.5	1491.7	10285.7	14939.6	17603.9	20232.7	20409.5	17346.1	13060.7	9352.2
70°	364.5	1008.6	7099.9	10925.9	14519.8	17475.5	17486.4	14410.1	9748.3	6127.8
72.5°	323.0	698.4	4121.4	7968.2	11773.5	14240.2	13952.7	11693.5	7492.0	3629.4
75°	279.6	463.3	2021.2	4871.2	7138.4	7186.8	7296.4	5424.4	3745.0	1725.8
77.5°	230.2	329.0	796.2	1330.7	2140.7	2740.4	2842.1	2153.6	1245.7	424.8
80°	158.1	156.1	214.4	408.0	612.5	767.6	716.2	554.2	326.0	163.0
82.5°	68.2	74.1	96.8	116.6	94.8	91.9	87.9	56.3	43.5	33.6
85°	21.7	19.8	20.7	20.7	16.8	12.8	12.8	5.9	0.0	0.0
87.5°	10.9	8.9	8.9	7.9	4.9	2.0	1.0	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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
57.3	0°	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
53.3	2.5°	52.4	52.4	50.4	48.4	47.4	45.4	44.5	43.5	42.5	41.5
57.3	5°	55.3	54.3	51.4	48.4	45.4	42.5	40.5	38.5	36.6	35.6
63.2	7.5°	60.3	58.3	52.4	47.4	43.5	39.5	37.5	34.6	32.6	29.6
70.1	10°	66.2	62.2	54.3	48.4	42.5	37.5	34.6	31.6	28.6	24.7
80.0	12.5°	74.1	67.2	57.3	47.4	40.5	34.6	31.6	27.7	24.7	21.7
92.9	15°	81.0	72.1	58.3	47.4	38.5	31.6	27.7	23.7	20.7	16.8
116.6	17.5°	90.9	76.1	57.3	44.5	35.6	27.7	23.7	20.7	15.8	9.9
172.9	20°	107.7	79.0	55.3	41.5	30.6	22.7	17.8	13.8	6.9	2.0
259.8	22.5°	134.4	86.9	53.3	37.5	26.7	17.8	11.9	4.9	0.0	0.0
395.1	25°	185.7	100.8	53.3	35.6	23.7	12.8	4.0	0.0	0.0	0.0
561.1	27.5°	247.0	119.5	53.3	30.6	18.8	6.9	0.0	0.0	0.0	0.0
764.6	30°	309.2	140.3	53.3	26.7	14.8	1.0	0.0	0.0	0.0	0.0
941.4	32.5°	368.5	158.1	54.3	22.7	9.9	0.0	0.0	0.0	0.0	0.0
1186.4	35°	428.7	161.0	53.3	19.8	5.9	0.0	0.0	0.0	0.0	0.0
1486.8	37.5°	505.8	155.1	50.4	17.8	3.0	0.0	0.0	0.0	0.0	0.0
1956.0	40°	622.4	158.1	47.4	16.8	1.0	0.0	0.0	0.0	0.0	0.0
2792.7	42.5°	837.7	170.9	43.5	16.8	0.0	0.0	0.0	0.0	0.0	0.0
4448.4	45°	1448.2	229.2	39.5	17.8	0.0	0.0	0.0	0.0	0.0	0.0
6678.0	47.5°	2395.6	411.9	38.5	17.8	0.0	0.0	0.0	0.0	0.0	0.0
8044.3	50°	3057.5	518.6	40.5	18.8	0.0	0.0	0.0	0.0	0.0	0.0
8215.2	52.5°	3052.5	577.9	42.5	19.8	4.0	0.0	0.0	0.0	0.0	0.0
7572.1	55°	2713.7	588.8	45.4	21.7	12.8	0.0	0.0	0.0	0.0	0.0
6507.1	57.5°	2268.2	537.4	52.4	26.7	23.7	0.0	0.0	0.0	0.0	0.0
6340.2	58°	2189.1	513.7	54.3	27.7	25.7	0.0	0.0	0.0	0.0	0.0
5499.5	60°	1794.0	418.9	69.2	34.6	34.6	0.0	0.0	0.0	0.0	0.0
4508.7	62.5°	1238.8	365.5	79.0	44.5	35.6	0.0	0.0	0.0	0.0	0.0
3324.2	65°	876.2	329.9	85.9	47.4	28.6	0.0	0.0	0.0	0.0	0.0
2362.0	67.5°	655.0	304.3	94.8	48.4	14.8	0.0	0.0	0.0	0.0	0.0
1481.8	70°	501.8	285.5	116.6	51.4	4.0	0.0	0.0	0.0	0.0	0.0
883.2	72.5°	409.0	263.8	141.3	53.3	0.0	0.0	0.0	0.0	0.0	0.0
529.5	75°	338.8	238.1	136.3	58.3	0.0	0.0	0.0	0.0	0.0	0.0
282.5	77.5°	225.2	184.7	124.5	58.3	0.0	0.0	0.0	0.0	0.0	0.0
100.8	80°	79.0	73.1	96.8	51.4	0.0	0.0	0.0	0.0	0.0	0.0
20.7	82.5°	11.9	9.9	13.8	17.8	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°
57.3	0°	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
40.5	2.5°	40.5	40.5	39.5	40.5	40.5	42.5	47.4	54.3	62.2	65.2
34.6	5°	33.6	32.6	31.6	31.6	31.6	34.6	38.5	46.4	55.3	59.3
28.6	7.5°	27.7	26.7	25.7	24.7	24.7	26.7	31.6	40.5	49.4	53.3
23.7	10°	22.7	20.7	19.8	18.8	18.8	20.7	25.7	34.6	44.5	48.4
19.8	12.5°	18.8	15.8	13.8	12.8	11.9	14.8	19.8	27.7	38.5	43.5
14.8	15°	12.8	9.9	6.9	5.9	4.9	7.9	12.8	21.7	32.6	38.5
7.9	17.5°	6.9	3.0	1.0	0.0	0.0	2.0	5.9	15.8	26.7	31.6
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	19.8	24.7
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	11.9	16.8
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	8.9
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
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	3.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	7.9
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°
57.3	0°	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
68.2	2.5°	70.1	69.2	67.2	65.2	65.2	65.2	68.2	71.1	74.1	74.1
61.2	5°	65.2	65.2	64.2	62.2	62.2	63.2	67.2	72.1	76.1	77.1
56.3	7.5°	60.3	62.2	60.3	59.3	60.3	61.2	65.2	71.1	77.1	79.0
52.4	10°	57.3	58.3	58.3	57.3	57.3	59.3	63.2	71.1	79.0	82.0
47.4	12.5°	53.3	55.3	54.3	54.3	54.3	56.3	61.2	70.1	81.0	85.0
42.5	15°	49.4	52.4	52.4	51.4	51.4	52.4	59.3	69.2	84.0	90.9
36.6	17.5°	45.4	48.4	49.4	47.4	47.4	49.4	56.3	69.2	85.9	97.8
29.6	20°	37.5	42.5	45.4	42.5	42.5	44.5	51.4	65.2	86.9	104.7
21.7	22.5°	29.6	34.6	38.5	37.5	37.5	38.5	47.4	62.2	87.9	116.6
12.8	25°	21.7	26.7	29.6	31.6	31.6	34.6	43.5	60.3	91.9	141.3
5.9	27.5°	12.8	18.8	22.7	24.7	25.7	29.6	40.5	58.3	98.8	176.8
0.0	30°	5.9	10.9	15.8	19.8	19.8	26.7	37.5	56.3	107.7	228.2
0.0	32.5°	0.0	4.9	7.9	13.8	14.8	21.7	34.6	54.3	120.5	277.6
0.0	35°	0.0	0.0	4.0	10.9	10.9	17.8	31.6	52.4	140.3	315.1
0.0	37.5°	0.0	0.0	0.0	7.9	8.9	15.8	30.6	51.4	144.2	318.1
0.0	40°	0.0	0.0	0.0	5.9	6.9	14.8	30.6	52.4	130.4	311.2
0.0	42.5°	0.0	0.0	0.0	4.0	4.9	14.8	30.6	54.3	117.6	319.1
0.0	45°	0.0	0.0	0.0	3.0	4.0	15.8	29.6	53.3	110.6	360.6
0.0	47.5°	0.0	0.0	0.0	4.0	5.9	15.8	28.6	52.4	111.6	497.9
0.0	50°	0.0	0.0	0.0	4.9	6.9	15.8	29.6	50.4	122.5	765.6
0.0	52.5°	0.0	0.0	0.0	4.0	5.9	17.8	32.6	49.4	133.4	995.8
0.0	55°	0.0	0.0	0.0	1.0	3.0	22.7	35.6	49.4	150.2	1053.1
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	25.7	40.5	52.4	177.8	1030.4
0.0	58°	0.0	0.0	0.0	0.0	0.0	25.7	41.5	52.4	179.8	1010.6
0.0	60°	0.0	0.0	0.0	0.0	0.0	25.7	45.4	58.3	193.6	900.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	21.7	54.3	73.1	201.5	707.3
0.0	65°	0.0	0.0	0.0	0.0	0.0	17.8	64.2	80.0	207.5	563.1
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	16.8	66.2	81.0	210.4	448.5
0.0	70°	0.0	0.0	0.0	0.0	0.0	17.8	65.2	86.9	220.3	364.5
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	19.8	59.3	95.8	220.3	323.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	20.7	55.3	107.7	200.5	279.6
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	19.8	54.3	125.5	178.8	230.2
0.0	80°	2.0	3.0	3.0	2.0	2.0	16.8	53.3	127.4	152.1	158.1
1.0	82.5°	5.9	7.9	6.9	4.9	4.9	14.8	47.4	106.7	79.0	68.2
5.9	85°	10.9	12.8	12.8	10.9	10.9	13.8	29.6	38.5	26.7	21.7
10.9	87.5°	14.8	16.8	16.8	14.8	14.8	13.8	12.8	11.9	10.9	10.9
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: SP1-2407-184-5

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-735-U-5WQ

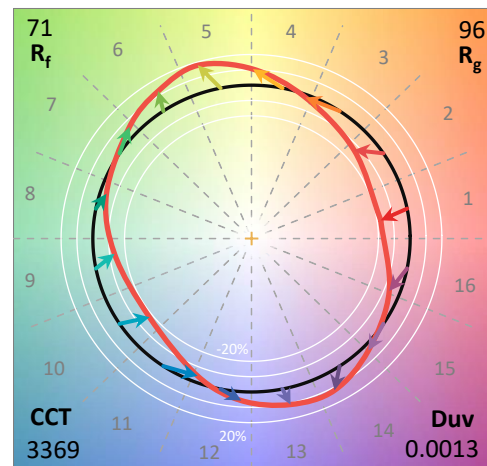
Data in this report applies to families of products including GSS-SB1A-735-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-5
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/15/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGraw-Edison
 Catalog Number: **GSS-SB1A-735-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K):	3369	CRI (Ra):	70.1		
CIE u':	0.2386	R1:	66.6	R9:	-40.2
CIE v':	0.5156	R2:	77.6	R10:	49.1
Duv:	0.0013	R3:	88.5	R11:	66.3
CIE x:	0.4143	R4:	69.5	R12:	45.7
CIE y:	0.3980	R5:	66.4	R13:	68.0
CIE z:	0.1877	R6:	69.6	R14:	93.4
Peak Wavelength (nm):	590	R7:	77.5	R15:	57.6
Dominant Wavelength (nm):	580	R8:	44.9		
Purity:	43.80166				
Rf:	71.4				
Rg:	96				



Test Conditions

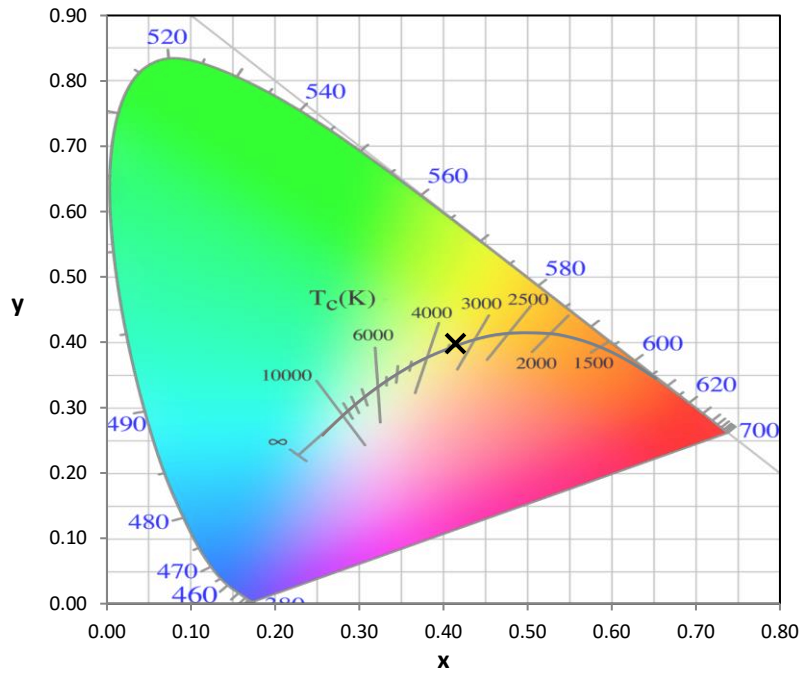
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-5

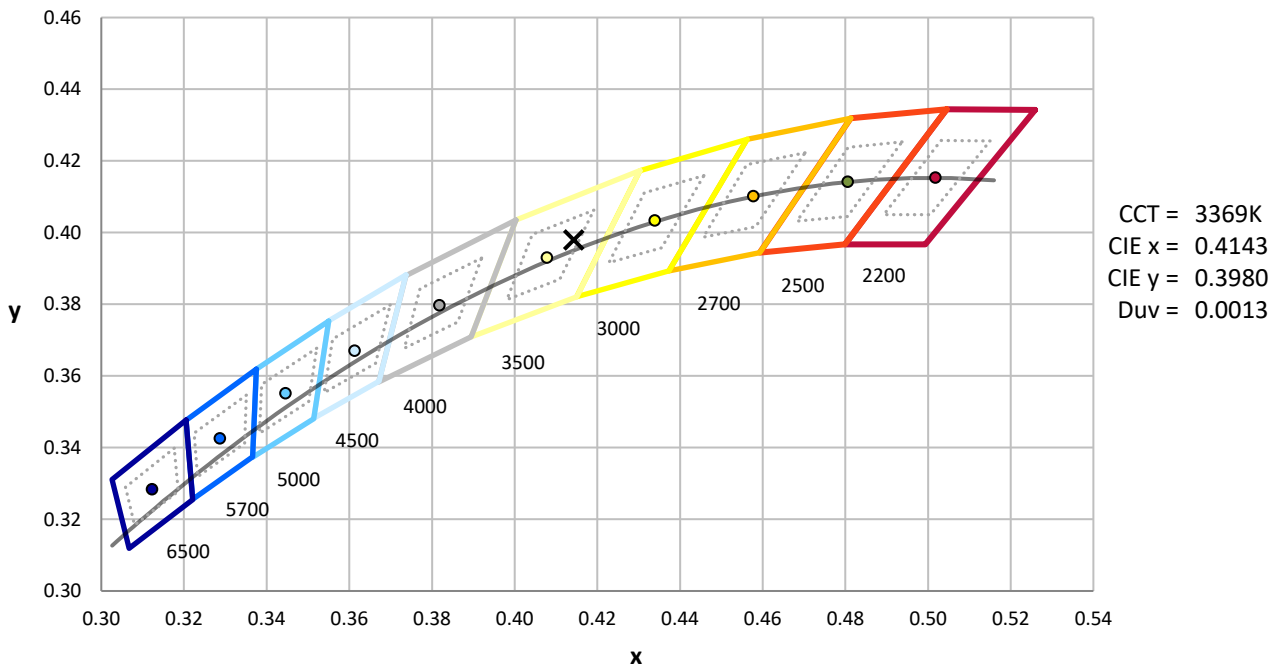
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-5

CIE 1931 Chromaticity Diagram



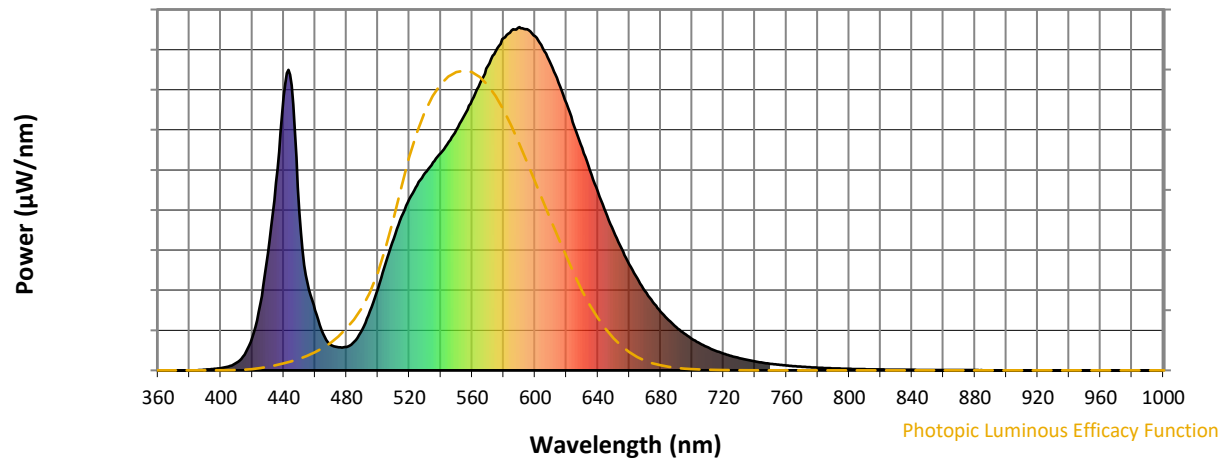
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-5

Photopic Flux vs. Wavelength

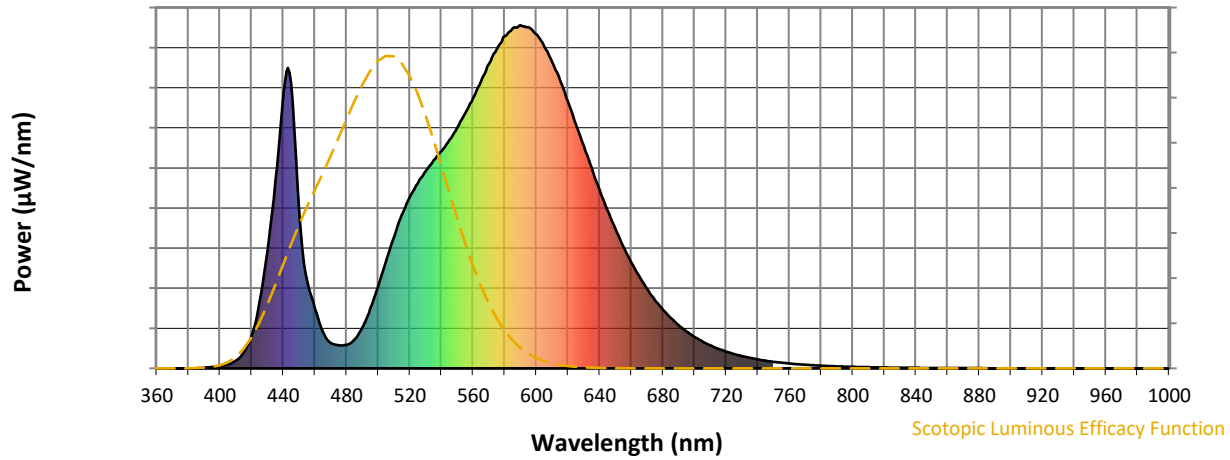


Photopic Lumens: NR

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

Scotopic Flux vs. Wavelength



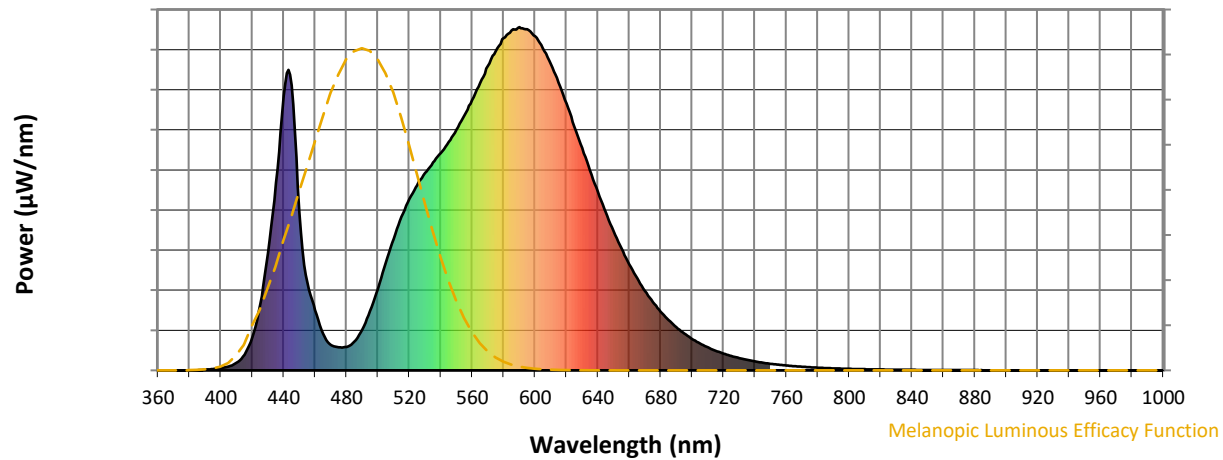
Scotopic Lumens: NR

S/P: 1.29

λ (nm)	Power W [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /nm	Lumens (Φ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.36

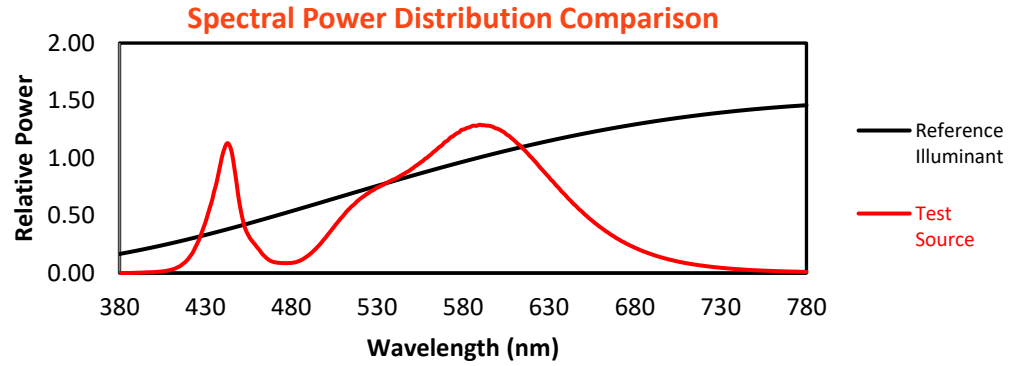
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

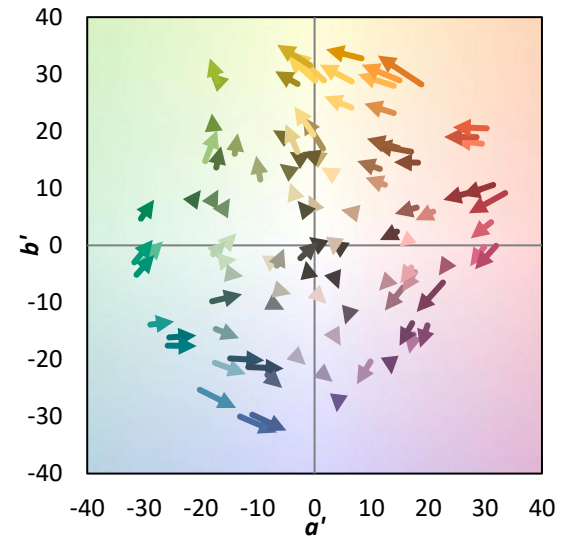
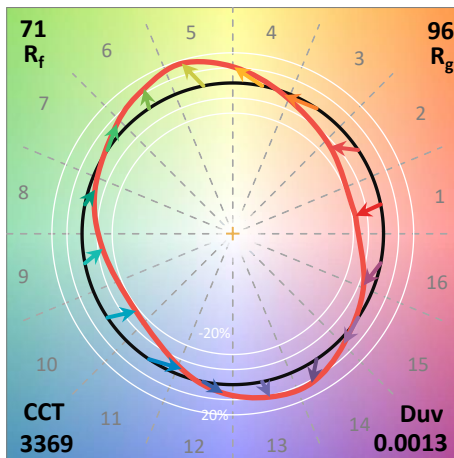
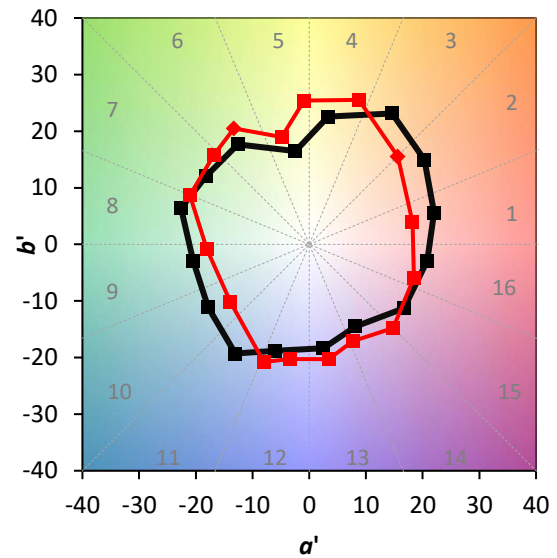
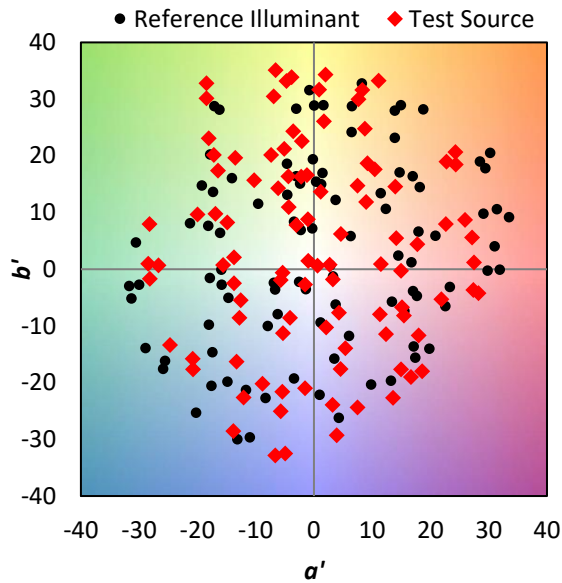
TM-30-18

Summary

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

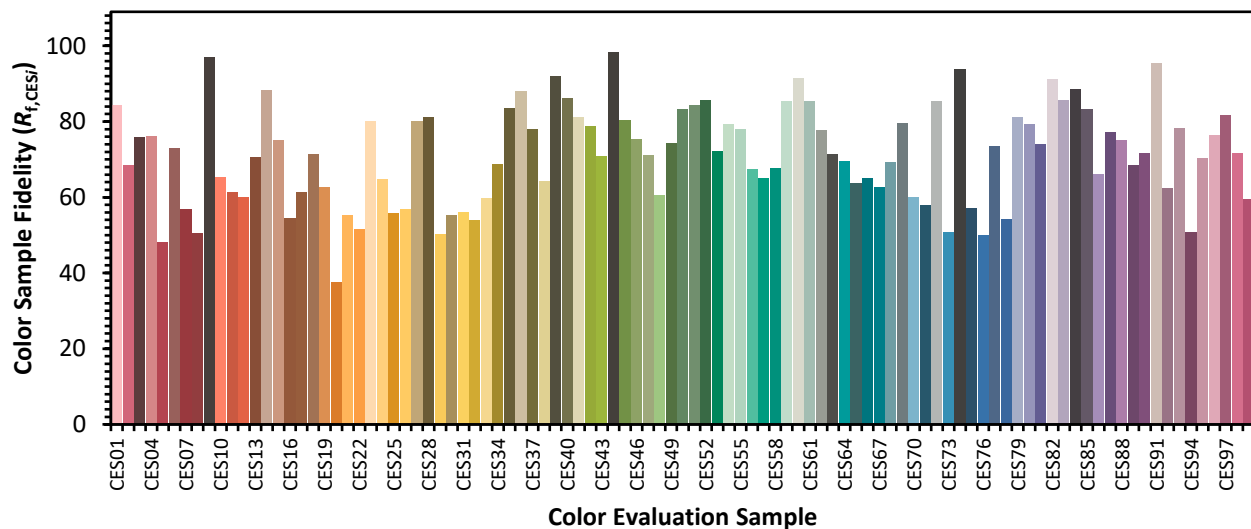


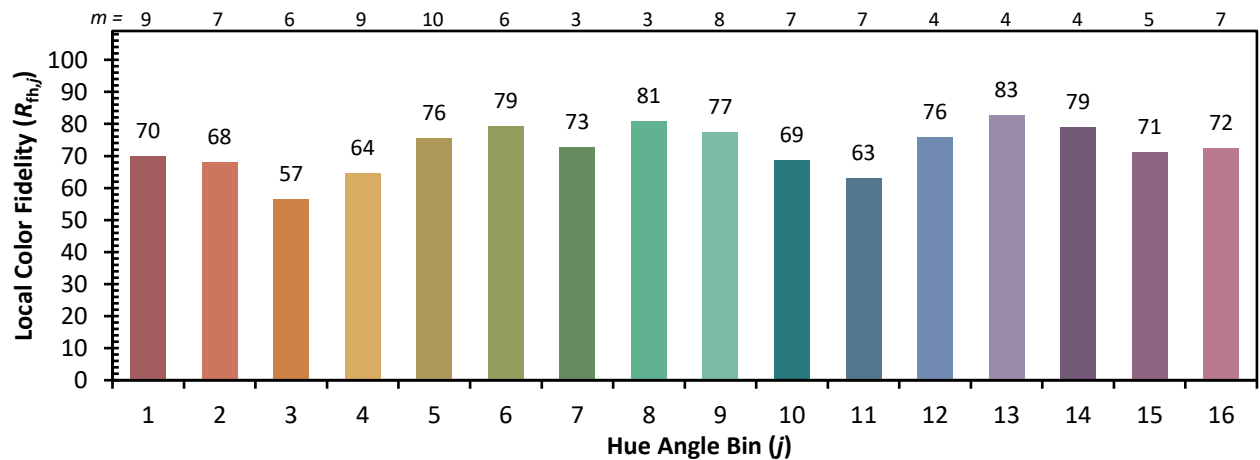
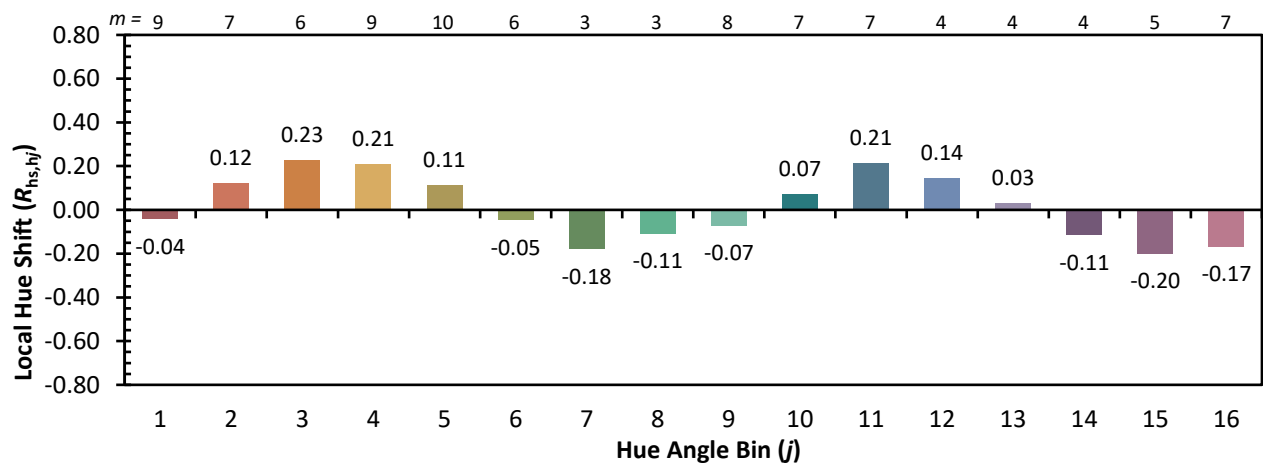
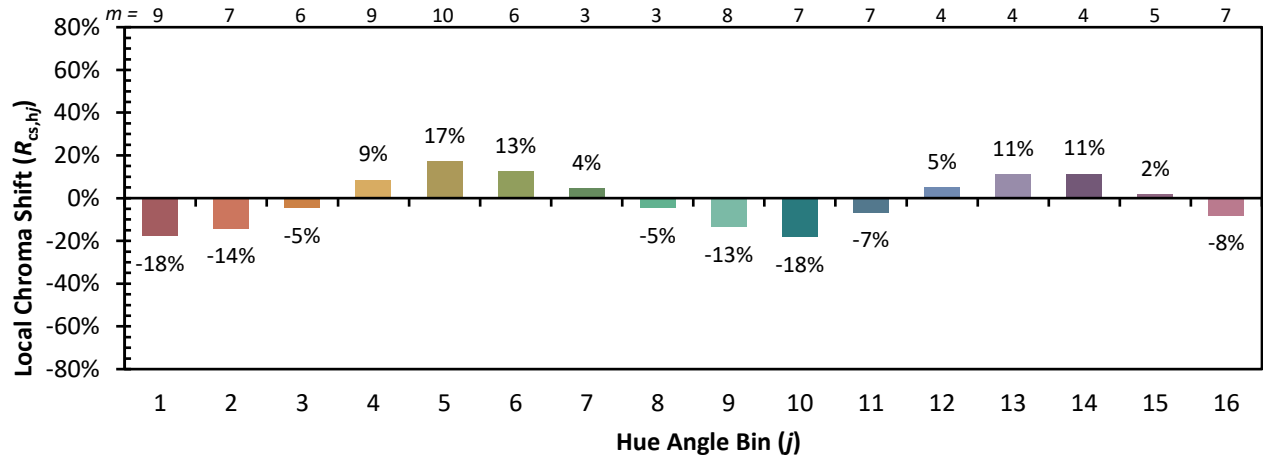
Color Vector Graphics



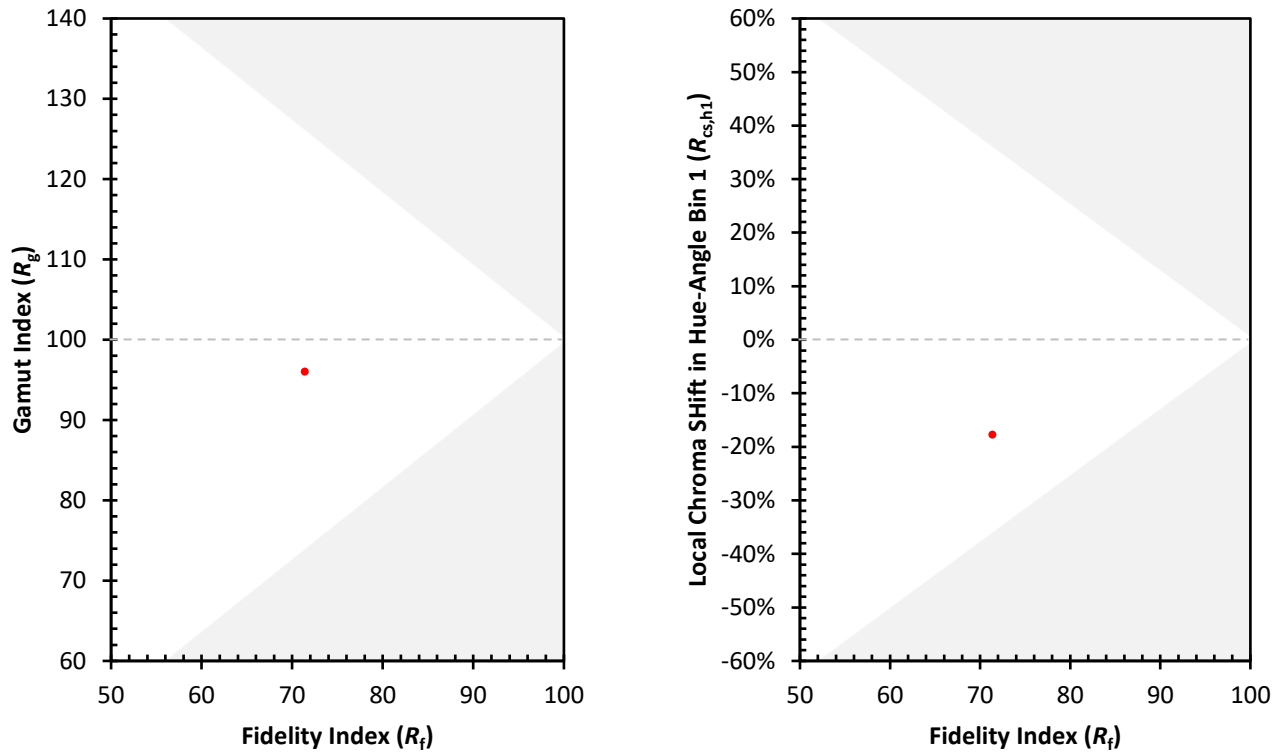
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82 = 91
CES08 = 39	CES33 = 60	CES58 = 68	CES83 = 86
CES09 = 29	CES34 = 69	CES59 = 85	CES84 = 89
CES10 = 75	CES35 = 83	CES60 = 91	CES85 = 83
CES11 = 58	CES36 = 88	CES61 = 85	CES86 = 66
CES12 = 64	CES37 = 78	CES62 = 78	CES87 = 77
CES13 = 43	CES38 = 64	CES63 = 71	CES88 = 75
CES14 = 74	CES39 = 92	CES64 = 70	CES89 = 68
CES15 = 71	CES40 = 86	CES65 = 64	CES90 = 72
CES16 = 47	CES41 = 81	CES66 = 65	CES91 = 95
CES17 = 50	CES42 = 79	CES67 = 63	CES92 = 62
CES18 = 56	CES43 = 71	CES68 = 69	CES93 = 78
CES19 = 72	CES44 = 98	CES69 = 80	CES94 = 51
CES20 = 65	CES45 = 80	CES70 = 60	CES95 = 70
CES21 = 87	CES46 = 75	CES71 = 58	CES96 = 76
CES22 = 79	CES47 = 71	CES72 = 85	CES97 = 82
CES23 = 92	CES48 = 61	CES73 = 51	CES98 = 72
CES24 = 91	CES49 = 74	CES74 = 94	CES99 = 60
CES25 = 72	CES50 = 83	CES75 = 57	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)