

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: P1049963

Luminaire Tested: **GALN-SA9C-930-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049963
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-930-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 9xLight Square PACKAGE
90CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (126) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31082.6 lumens
Efficiency: N/A
Efficacy: 74.5 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

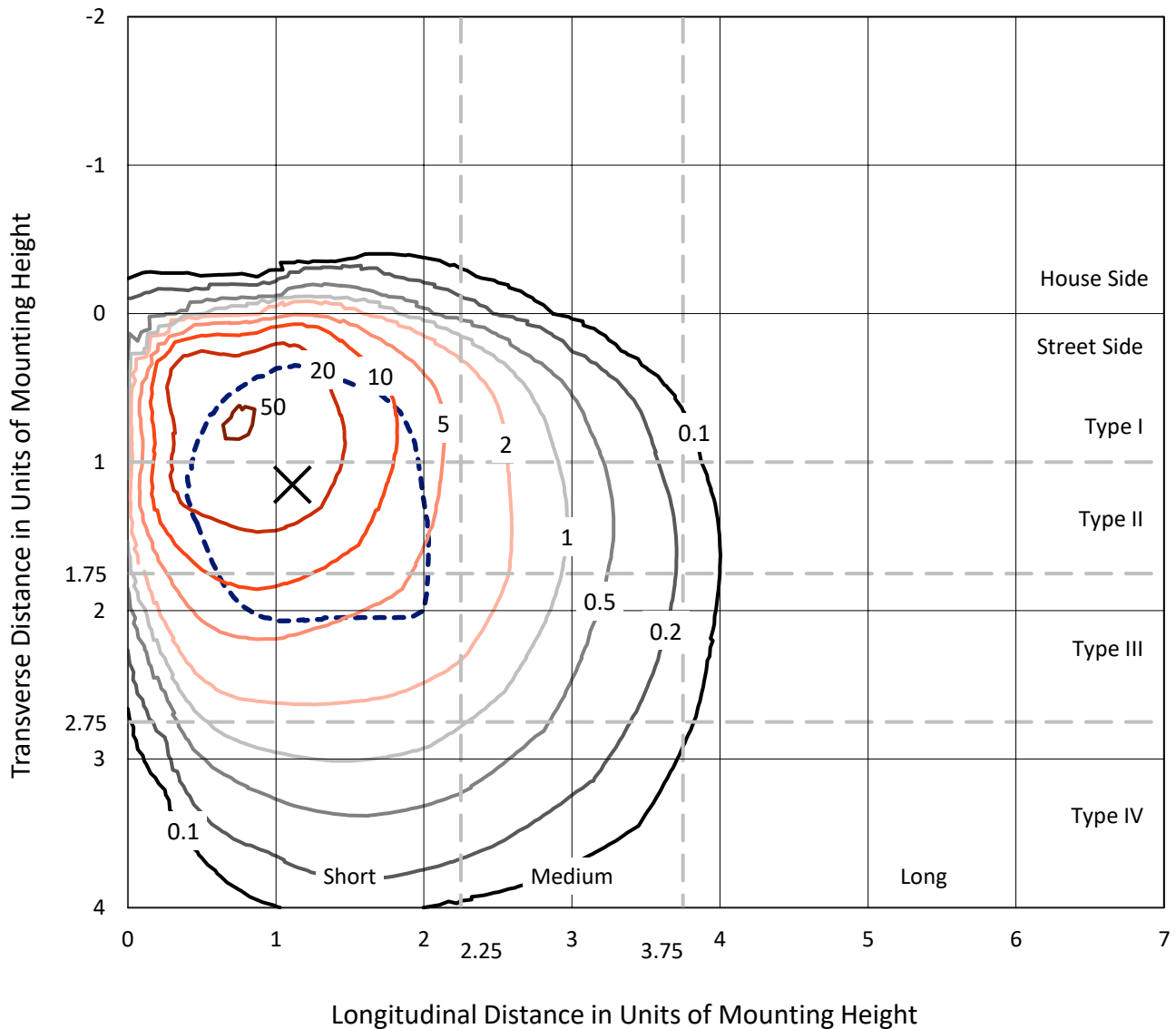
Input Watts (W): 417.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

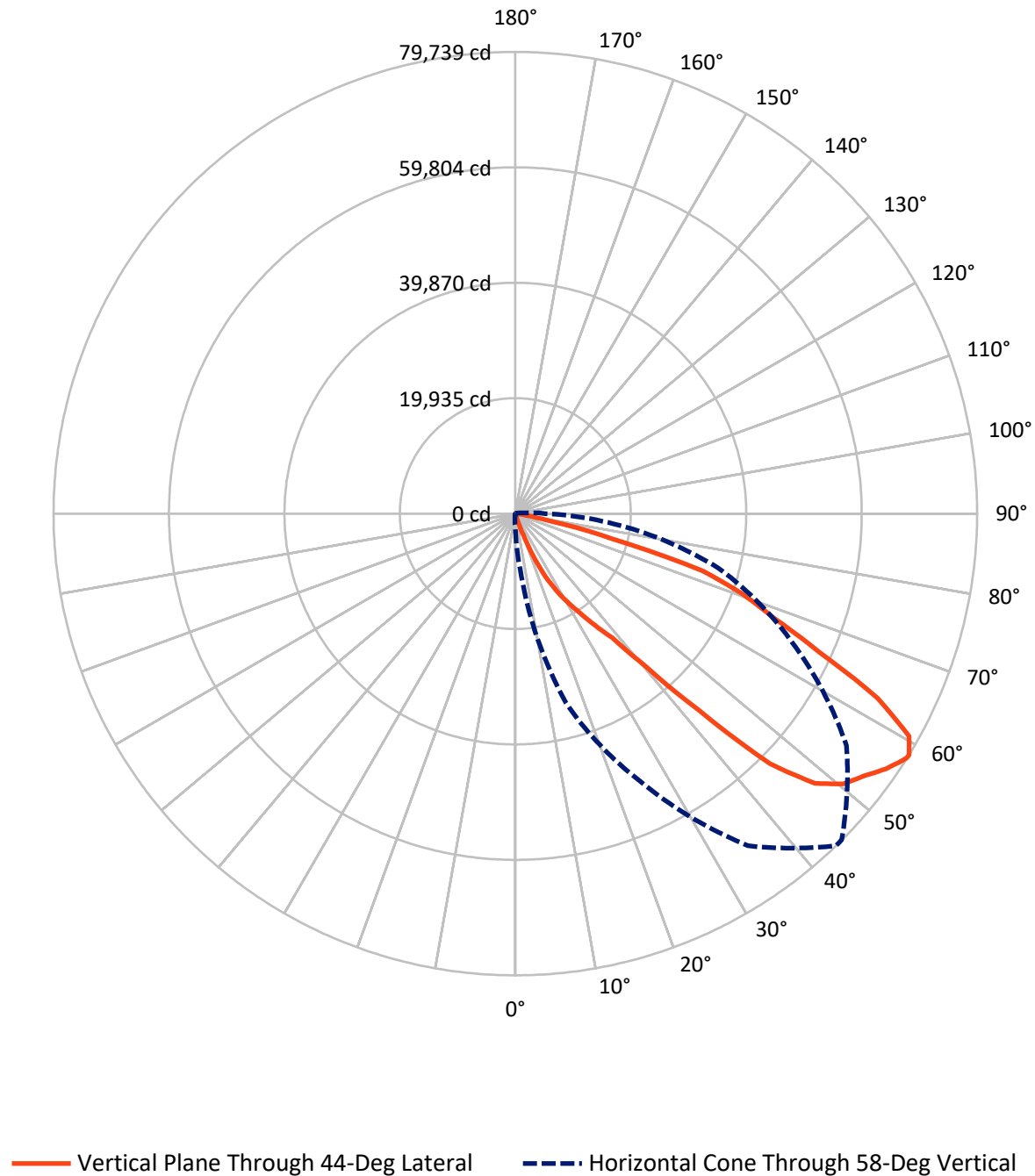
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 54.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	212.2	0.0	212.2
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	30870.4	0.0	30870.4
	% Fixture	99.3	0.0	99.3
Total	Lumens	31082.6	0.0	31082.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.1	0.0
10°-20°	68.2	0.2
20°-30°	736.3	2.4
30°-40°	2177.6	7.0
40°-50°	6490.5	20.9
50°-60°	10298.9	33.1
60°-70°	8590.5	27.6
70°-80°	2649.5	8.5
80°-90°	58.8	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°	31082.6	100.0
0°-180°	31082.6	100.0



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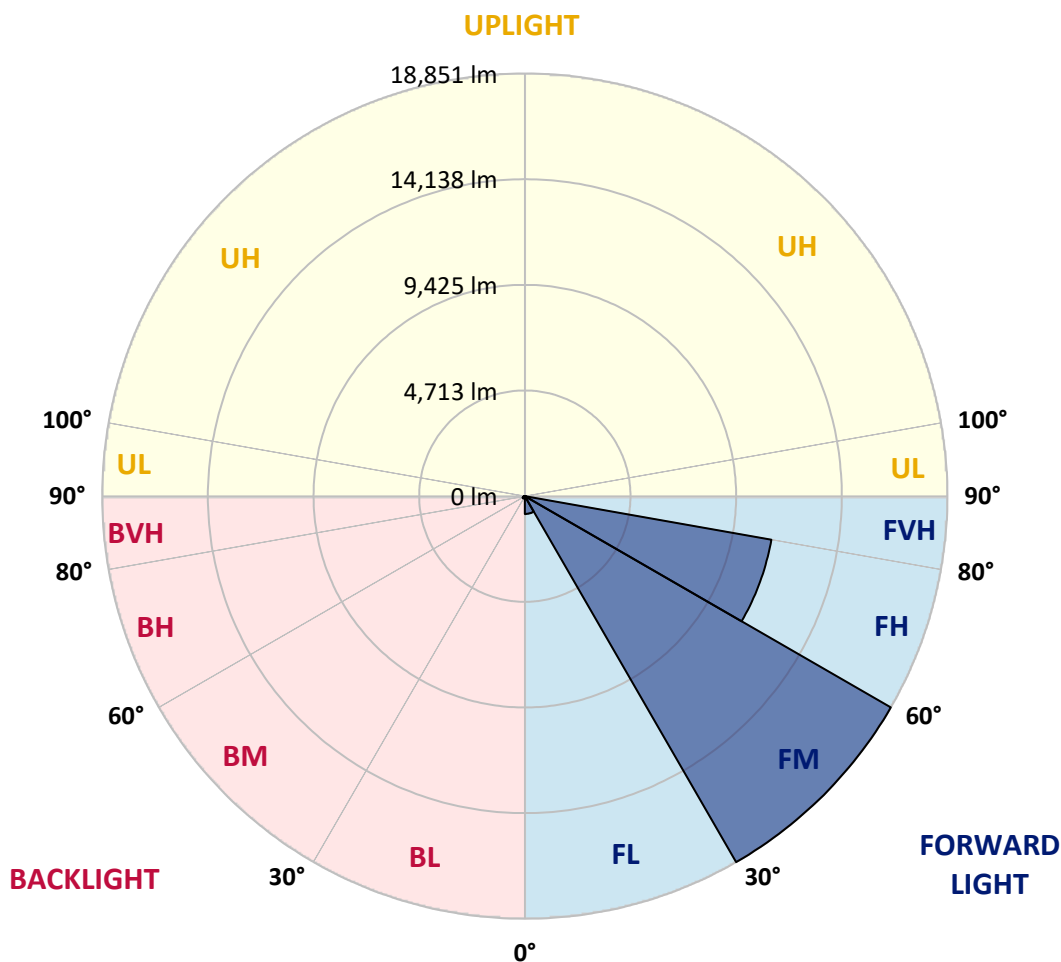
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	795.9	2.6			
FM	(30°-60°)	18850.9	60.6			
FH	(60°-80°)	11167.5	35.9			G4/12000
FVH	(80°-90°)	56.0	0.2			G1/100
BL	(0°-30°)	20.8	0.1	B0/110		
BM	(30°-60°)	116.2	0.4	B0/220		
BH	(60°-80°)	72.5	0.2	B0/110		G0/110
BVH	(80°-90°)	2.8	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	136.2	136.2	136.2	136.2	136.2	136.2	136.2	136.2	136.2	136.2
2.5°	176.1	176.1	169.1	159.7	150.3	140.9	138.5	133.8	131.5	129.1
5°	183.1	183.1	180.8	173.8	164.4	157.3	157.3	150.3	145.6	140.9
7.5°	187.8	190.2	194.9	192.5	187.8	180.8	180.8	176.1	169.1	157.3
10°	194.9	201.9	211.3	216.0	218.4	218.4	216.0	213.7	201.9	185.5
12.5°	201.9	216.0	239.5	263.0	277.1	295.9	293.5	288.8	258.3	223.1
15°	216.0	237.2	286.5	354.6	460.2	526.0	551.8	528.3	427.3	300.5
17.5°	232.5	267.7	415.6	742.0	1216.3	1441.7	1577.9	1467.5	972.1	570.6
20°	248.9	326.4	772.5	1923.0	3155.7	3893.0	4097.3	3778.0	2425.5	1087.1
22.5°	277.1	457.9	1566.1	3975.2	6799.9	7905.8	8114.8	7093.4	4581.0	2146.1
25°	335.8	664.5	2700.2	6478.2	10148.2	12014.9	11928.0	10589.6	7431.5	3428.1
27.5°	420.3	967.4	4083.2	9204.3	13355.6	15001.5	15198.8	13543.4	9906.3	5041.2
30°	542.4	1340.7	5567.2	11387.9	15926.7	17706.5	17739.3	16027.6	12120.5	6457.1
32.5°	659.8	1692.9	6865.6	13498.8	18460.2	20411.4	20557.0	18450.8	13773.5	7931.6
35°	749.0	1923.0	8180.5	15353.7	21014.8	23703.3	23693.9	21193.3	15731.8	9248.9
37.5°	756.1	2153.1	9371.0	17251.0	24250.4	27260.6	27558.8	24802.2	18098.6	10878.4
40°	739.6	2411.4	10878.4	20209.5	30080.6	34699.1	34962.1	31487.0	22846.3	13667.9
42.5°	758.4	2859.9	13325.1	25673.3	39761.5	46394.7	46901.8	43248.3	31573.9	19359.5
45°	857.0	3702.8	18450.8	34814.2	53560.8	61647.5	61478.4	56216.5	41729.1	28023.7
47.5°	1183.4	5766.8	26049.0	43710.9	62380.0	69581.4	69727.0	63295.8	47655.6	34685.1
50°	1819.7	8823.9	32433.3	48414.0	66172.1	73397.0	73260.8	65829.3	49907.3	37965.3
52.5°	2366.8	11035.7	35636.0	50064.6	66658.1	75282.4	75273.1	66496.1	50257.2	38247.0
55°	2503.0	11202.4	35661.8	50153.9	67747.6	77750.2	78060.2	68137.4	50710.3	37016.6
57.5°	2449.0	9918.1	34173.2	50670.4	69687.1	79659.2	79675.6	69727.0	51860.9	36262.9
58°	2402.0	9716.1	33872.6	50963.9	70020.5	79739.0	79699.1	69799.8	52797.7	36234.8
60°	2139.1	8436.5	32701.0	51712.9	69525.1	78100.1	77726.7	68210.2	52659.2	35945.9
62.5°	1681.2	6581.5	31548.1	50846.5	64213.8	70166.1	70321.1	60388.9	48005.4	34262.4
65°	1338.4	4905.0	29143.7	44600.8	52877.6	57620.6	58198.2	49106.6	40069.1	29012.2
67.5°	1066.0	3545.5	24447.7	35509.2	41841.8	48089.9	48510.2	41229.0	31043.3	22228.8
70°	866.4	2397.3	16875.3	25969.2	34511.3	41536.6	41562.4	34250.7	23170.3	14564.8
72.5°	767.8	1660.1	9796.0	18939.2	27983.8	33846.8	33163.5	27793.6	17807.4	8626.7
75°	664.5	1101.2	4804.1	11578.1	16966.8	17081.9	17342.5	12893.0	8901.4	4102.0
77.5°	547.1	781.9	1892.5	3162.8	5088.2	6513.4	6755.3	5118.7	2960.9	1009.7
80°	375.7	371.0	509.5	969.7	1455.8	1824.4	1702.3	1317.2	774.8	387.4
82.5°	162.0	176.1	230.1	277.1	225.4	218.4	209.0	133.8	103.3	79.8
85°	51.7	47.0	49.3	49.3	39.9	30.5	30.5	14.1	0.0	0.0
87.5°	25.8	21.1	21.1	18.8	11.7	4.7	2.3	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°
136.2	0°	136.2	136.2	136.2	136.2	136.2	136.2	136.2	136.2	136.2	136.2
126.8	2.5°	124.4	124.4	119.7	115.1	112.7	108.0	105.7	103.3	101.0	98.6
136.2	5°	131.5	129.1	122.1	115.1	108.0	101.0	96.3	91.6	86.9	84.5
150.3	7.5°	143.2	138.5	124.4	112.7	103.3	93.9	89.2	82.2	77.5	70.4
166.7	10°	157.3	147.9	129.1	115.1	101.0	89.2	82.2	75.1	68.1	58.7
190.2	12.5°	176.1	159.7	136.2	112.7	96.3	82.2	75.1	65.7	58.7	51.7
220.7	15°	192.5	171.4	138.5	112.7	91.6	75.1	65.7	56.4	49.3	39.9
277.1	17.5°	216.0	180.8	136.2	105.7	84.5	65.7	56.4	49.3	37.6	23.5
410.9	20°	255.9	187.8	131.5	98.6	72.8	54.0	42.3	32.9	16.4	4.7
617.5	22.5°	319.3	206.6	126.8	89.2	63.4	42.3	28.2	11.7	0.0	0.0
939.2	25°	441.4	239.5	126.8	84.5	56.4	30.5	9.4	0.0	0.0	0.0
1333.7	27.5°	587.0	284.1	126.8	72.8	44.6	16.4	0.0	0.0	0.0	0.0
1817.4	30°	734.9	333.4	126.8	63.4	35.2	2.3	0.0	0.0	0.0	0.0
2237.7	32.5°	875.8	375.7	129.1	54.0	23.5	0.0	0.0	0.0	0.0	0.0
2820.0	35°	1019.0	382.7	126.8	47.0	14.1	0.0	0.0	0.0	0.0	0.0
3533.8	37.5°	1202.2	368.6	119.7	42.3	7.0	0.0	0.0	0.0	0.0	0.0
4649.1	40°	1479.3	375.7	112.7	39.9	2.3	0.0	0.0	0.0	0.0	0.0
6637.9	42.5°	1991.1	406.2	103.3	39.9	0.0	0.0	0.0	0.0	0.0	0.0
10573.2	45°	3442.2	544.7	93.9	42.3	0.0	0.0	0.0	0.0	0.0	0.0
15872.7	47.5°	5694.0	979.1	91.6	42.3	0.0	0.0	0.0	0.0	0.0	0.0
19120.0	50°	7267.1	1232.7	96.3	44.6	0.0	0.0	0.0	0.0	0.0	0.0
19526.2	52.5°	7255.4	1373.6	101.0	47.0	9.4	0.0	0.0	0.0	0.0	0.0
17997.6	55°	6450.0	1399.4	108.0	51.7	30.5	0.0	0.0	0.0	0.0	0.0
15466.5	57.5°	5391.1	1277.3	124.4	63.4	56.4	0.0	0.0	0.0	0.0	0.0
15069.6	58°	5203.2	1221.0	129.1	65.7	61.0	0.0	0.0	0.0	0.0	0.0
13071.5	60°	4264.0	995.6	164.4	82.2	82.2	0.0	0.0	0.0	0.0	0.0
10716.4	62.5°	2944.4	868.8	187.8	105.7	84.5	0.0	0.0	0.0	0.0	0.0
7901.1	65°	2082.7	784.2	204.3	112.7	68.1	0.0	0.0	0.0	0.0	0.0
5614.1	67.5°	1556.7	723.2	225.4	115.1	35.2	0.0	0.0	0.0	0.0	0.0
3522.0	70°	1192.8	678.6	277.1	122.1	9.4	0.0	0.0	0.0	0.0	0.0
2099.1	72.5°	972.1	626.9	335.8	126.8	0.0	0.0	0.0	0.0	0.0	0.0
1258.5	75°	805.4	565.9	324.0	138.5	0.0	0.0	0.0	0.0	0.0	0.0
671.5	77.5°	535.4	439.1	295.9	138.5	0.0	0.0	0.0	0.0	0.0	0.0
239.5	80°	187.8	173.8	230.1	122.1	0.0	0.0	0.0	0.0	0.0	0.0
49.3	82.5°	28.2	23.5	32.9	42.3	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°
136.2	0°	136.2	136.2	136.2	136.2	136.2	136.2	136.2	136.2	136.2	136.2
96.3	2.5°	96.3	96.3	93.9	96.3	96.3	101.0	112.7	129.1	147.9	155.0
82.2	5°	79.8	77.5	75.1	75.1	75.1	82.2	91.6	110.4	131.5	140.9
68.1	7.5°	65.7	63.4	61.0	58.7	58.7	63.4	75.1	96.3	117.4	126.8
56.4	10°	54.0	49.3	47.0	44.6	44.6	49.3	61.0	82.2	105.7	115.1
47.0	12.5°	44.6	37.6	32.9	30.5	28.2	35.2	47.0	65.7	91.6	103.3
35.2	15°	30.5	23.5	16.4	14.1	11.7	18.8	30.5	51.7	77.5	91.6
18.8	17.5°	16.4	7.0	2.3	0.0	0.0	4.7	14.1	37.6	63.4	75.1
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.8	47.0	58.7
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	28.2	39.9
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.7	21.1
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7
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	7.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	18.8
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°
136.2	0°	136.2	136.2	136.2	136.2	136.2	136.2	136.2	136.2	136.2	136.2
162.0	2.5°	166.7	164.4	159.7	155.0	155.0	155.0	162.0	169.1	176.1	176.1
145.6	5°	155.0	155.0	152.6	147.9	147.9	150.3	159.7	171.4	180.8	183.1
133.8	7.5°	143.2	147.9	143.2	140.9	143.2	145.6	155.0	169.1	183.1	187.8
124.4	10°	136.2	138.5	138.5	136.2	136.2	140.9	150.3	169.1	187.8	194.9
112.7	12.5°	126.8	131.5	129.1	129.1	129.1	133.8	145.6	166.7	192.5	201.9
101.0	15°	117.4	124.4	124.4	122.1	122.1	124.4	140.9	164.4	199.6	216.0
86.9	17.5°	108.0	115.1	117.4	112.7	112.7	117.4	133.8	164.4	204.3	232.5
70.4	20°	89.2	101.0	108.0	101.0	101.0	105.7	122.1	155.0	206.6	248.9
51.7	22.5°	70.4	82.2	91.6	89.2	89.2	91.6	112.7	147.9	209.0	277.1
30.5	25°	51.7	63.4	70.4	75.1	75.1	82.2	103.3	143.2	218.4	335.8
14.1	27.5°	30.5	44.6	54.0	58.7	61.0	70.4	96.3	138.5	234.8	420.3
0.0	30°	14.1	25.8	37.6	47.0	47.0	63.4	89.2	133.8	255.9	542.4
0.0	32.5°	0.0	11.7	18.8	32.9	35.2	51.7	82.2	129.1	286.5	659.8
0.0	35°	0.0	0.0	9.4	25.8	25.8	42.3	75.1	124.4	333.4	749.0
0.0	37.5°	0.0	0.0	0.0	18.8	21.1	37.6	72.8	122.1	342.8	756.1
0.0	40°	0.0	0.0	0.0	14.1	16.4	35.2	72.8	124.4	309.9	739.6
0.0	42.5°	0.0	0.0	0.0	9.4	11.7	35.2	72.8	129.1	279.4	758.4
0.0	45°	0.0	0.0	0.0	7.0	9.4	37.6	70.4	126.8	263.0	857.0
0.0	47.5°	0.0	0.0	0.0	9.4	14.1	37.6	68.1	124.4	265.3	1183.4
0.0	50°	0.0	0.0	0.0	11.7	16.4	37.6	70.4	119.7	291.2	1819.7
0.0	52.5°	0.0	0.0	0.0	9.4	14.1	42.3	77.5	117.4	317.0	2366.8
0.0	55°	0.0	0.0	0.0	2.3	7.0	54.0	84.5	117.4	356.9	2503.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	61.0	96.3	124.4	422.6	2449.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	61.0	98.6	124.4	427.3	2402.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	61.0	108.0	138.5	460.2	2139.1
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	51.7	129.1	173.8	479.0	1681.2
0.0	65°	0.0	0.0	0.0	0.0	0.0	42.3	152.6	190.2	493.1	1338.4
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	39.9	157.3	192.5	500.1	1066.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	42.3	155.0	206.6	523.6	866.4
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	47.0	140.9	227.8	523.6	767.8
0.0	75°	0.0	0.0	0.0	0.0	0.0	49.3	131.5	255.9	476.6	664.5
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	47.0	129.1	298.2	425.0	547.1
0.0	80°	4.7	7.0	7.0	4.7	4.7	39.9	126.8	302.9	361.6	375.7
2.3	82.5°	14.1	18.8	16.4	11.7	11.7	35.2	112.7	253.6	187.8	162.0
14.1	85°	25.8	30.5	30.5	25.8	25.8	32.9	70.4	91.6	63.4	51.7
25.8	87.5°	35.2	39.9	39.9	35.2	35.2	32.9	30.5	28.2	25.8	25.8
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: SP1-2407-184-14

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-930-U-5WQ

Data in this report applies to families of products including GSS-SB1A-930-U-5WQ

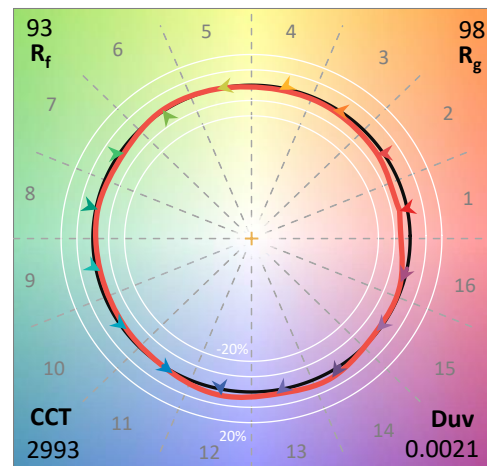
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-14
 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-930-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 2993
 CIE u' : 0.2501
 CIE v' : 0.5245
 Duv: 0.0021
 CIE x: 0.4406
 CIE y: 0.4107
 CIE z: 0.1487
 Peak Wavelength (nm): 621
 Dominant Wavelength (nm): 582
 Purity: 55.53327
 R_f: 92.6
 R_g: 98.5

CRI (Ra): 92.4
 R1: 92.2
 R2: 95.2
 R3: 97.0
 R4: 93.1
 R5: 91.7
 R6: 94.2
 R7: 93.3
 R8: 82.3
 R9: 58.2
 R10: 87.7
 R11: 93.5
 R12: 81.7
 R13: 92.9
 R14: 97.6
 R15: 88.1



Test Conditions

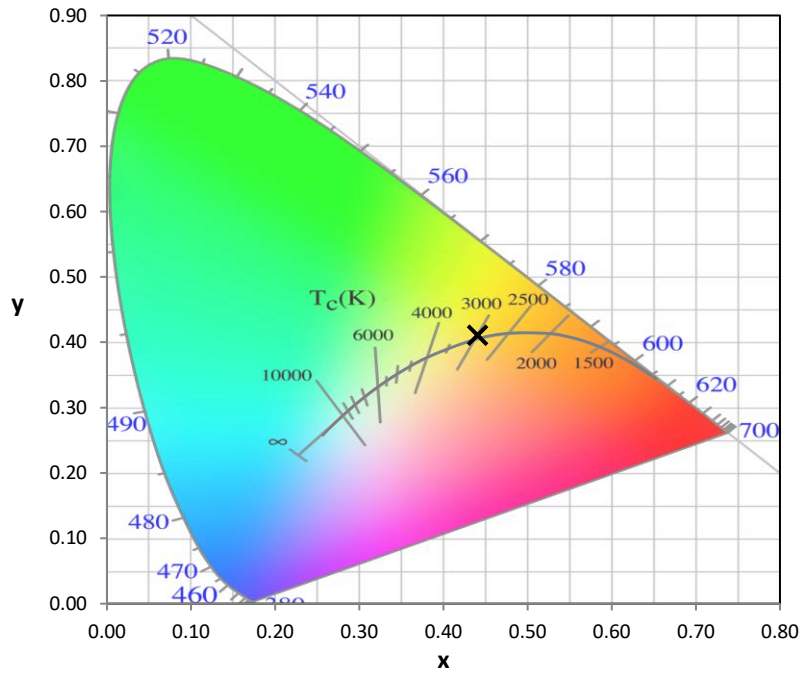
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-14

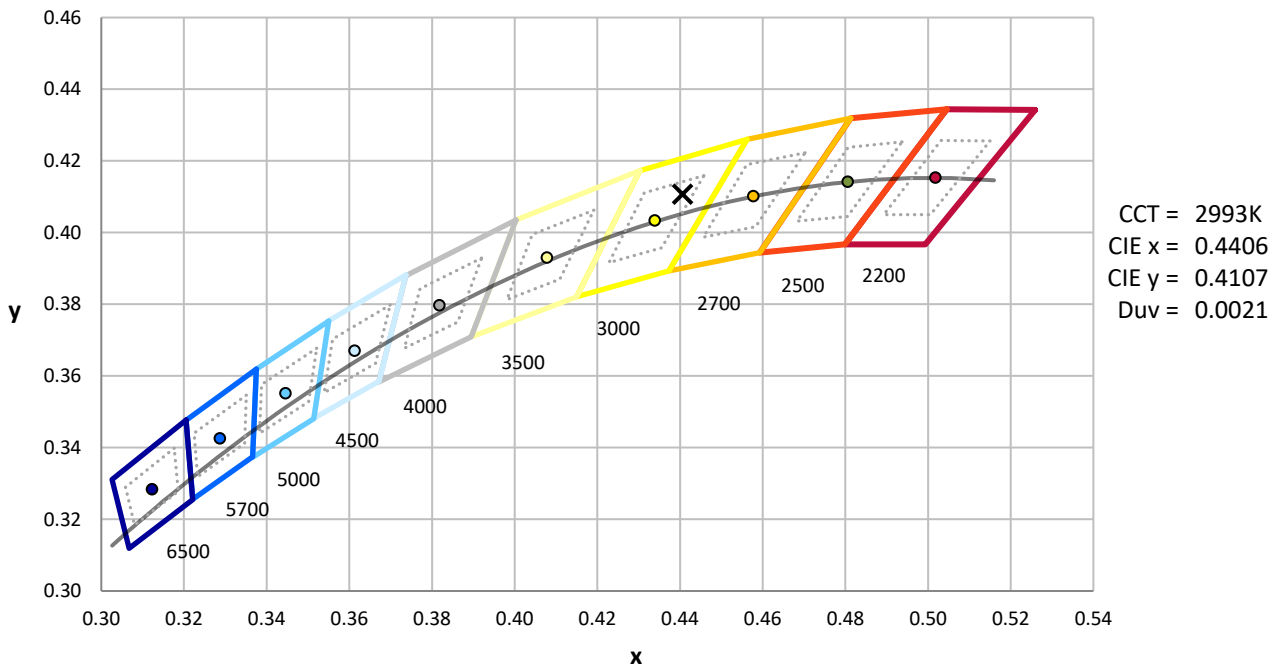
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



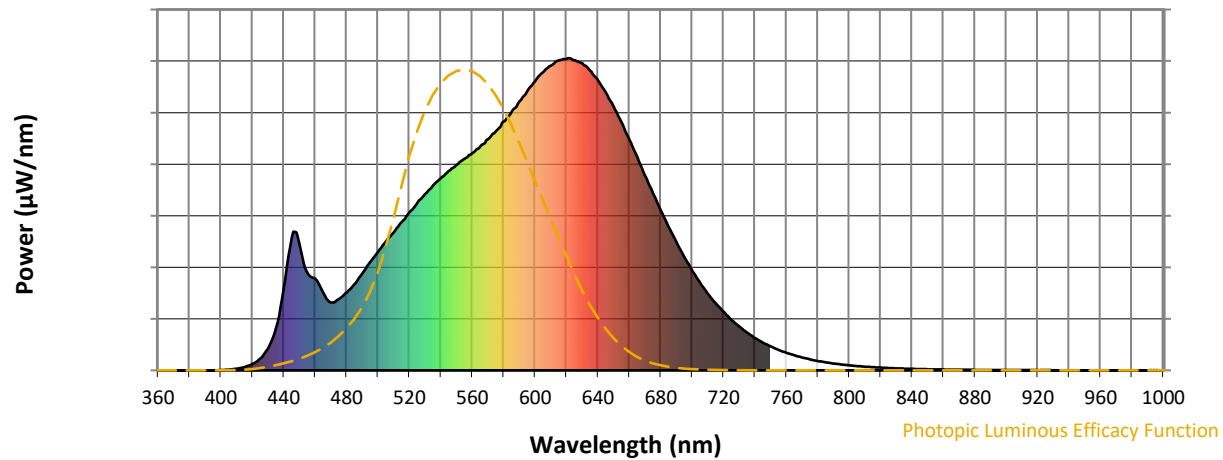
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-14

Photopic Flux vs. Wavelength

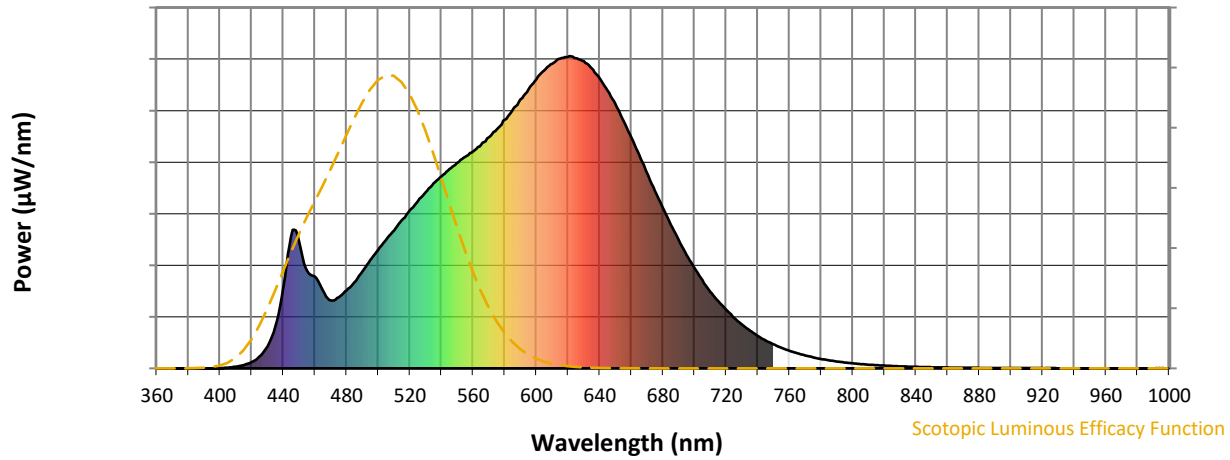


Photopic Lumens: NR

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	310	NR	620	998	NR	750	77	NR	880	2	NR
365	0	NR	495	347	NR	625	993	NR	755	66	NR	885	1	NR
370	0	NR	500	379	NR	630	983	NR	760	56	NR	890	1	NR
375	0	NR	505	412	NR	635	960	NR	765	48	NR	895	1	NR
380	0	NR	510	442	NR	640	930	NR	770	41	NR	900	1	NR
385	0	NR	515	475	NR	645	889	NR	775	35	NR	905	1	NR
390	0	NR	520	506	NR	650	846	NR	780	30	NR	910	1	NR
395	0	NR	525	535	NR	655	794	NR	785	26	NR	915	1	NR
400	1	NR	530	565	NR	660	740	NR	790	22	NR	920	1	NR
405	2	NR	535	592	NR	665	684	NR	795	19	NR	925	1	NR
410	6	NR	540	615	NR	670	624	NR	800	16	NR	930	0	NR
415	10	NR	545	638	NR	675	567	NR	805	14	NR	935	0	NR
420	20	NR	550	658	NR	680	513	NR	810	12	NR	940	0	NR
425	38	NR	555	678	NR	685	459	NR	815	10	NR	945	0	NR
430	70	NR	560	695	NR	690	412	NR	820	9	NR	950	0	NR
435	136	NR	565	716	NR	695	363	NR	825	8	NR	955	0	NR
440	262	NR	570	740	NR	700	320	NR	830	7	NR	960	0	NR
445	424	NR	575	765	NR	705	281	NR	835	6	NR	965	0	NR
450	406	NR	580	796	NR	710	245	NR	840	5	NR	970	0	NR
455	313	NR	585	827	NR	715	215	NR	845	4	NR	975	0	NR
460	294	NR	590	861	NR	720	188	NR	850	4	NR	980	0	NR
465	250	NR	595	894	NR	725	162	NR	855	3	NR	985	0	NR
470	217	NR	600	927	NR	730	140	NR	860	3	NR	990	0	NR
475	228	NR	605	954	NR	735	121	NR	865	2	NR	995	0	NR
480	249	NR	610	976	NR	740	104	NR	870	2	NR	1000	0	NR
485	276	NR	615	992	NR	745	89	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-14

Scotopic Flux vs. Wavelength



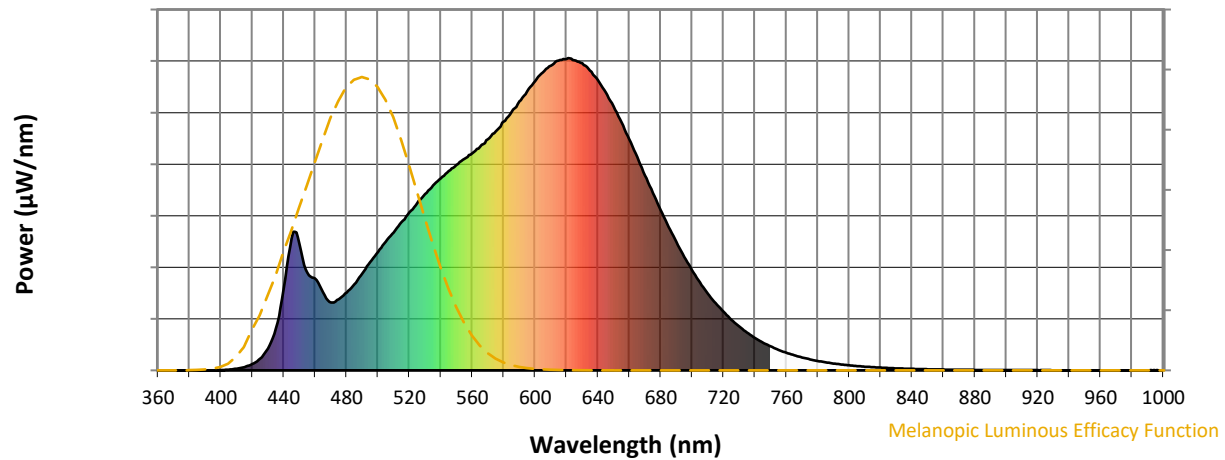
Scotopic Lumens: NR

S/P: 1.39

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	310	NR	620	998	NR	750	77	NR	880	2	NR
365	0	NR	495	347	NR	625	993	NR	755	66	NR	885	1	NR
370	0	NR	500	379	NR	630	983	NR	760	56	NR	890	1	NR
375	0	NR	505	412	NR	635	960	NR	765	48	NR	895	1	NR
380	0	NR	510	442	NR	640	930	NR	770	41	NR	900	1	NR
385	0	NR	515	475	NR	645	889	NR	775	35	NR	905	1	NR
390	0	NR	520	506	NR	650	846	NR	780	30	NR	910	1	NR
395	0	NR	525	535	NR	655	794	NR	785	26	NR	915	1	NR
400	1	NR	530	565	NR	660	740	NR	790	22	NR	920	1	NR
405	2	NR	535	592	NR	665	684	NR	795	19	NR	925	1	NR
410	6	NR	540	615	NR	670	624	NR	800	16	NR	930	0	NR
415	10	NR	545	638	NR	675	567	NR	805	14	NR	935	0	NR
420	20	NR	550	658	NR	680	513	NR	810	12	NR	940	0	NR
425	38	NR	555	678	NR	685	459	NR	815	10	NR	945	0	NR
430	70	NR	560	695	NR	690	412	NR	820	9	NR	950	0	NR
435	136	NR	565	716	NR	695	363	NR	825	8	NR	955	0	NR
440	262	NR	570	740	NR	700	320	NR	830	7	NR	960	0	NR
445	424	NR	575	765	NR	705	281	NR	835	6	NR	965	0	NR
450	406	NR	580	796	NR	710	245	NR	840	5	NR	970	0	NR
455	313	NR	585	827	NR	715	215	NR	845	4	NR	975	0	NR
460	294	NR	590	861	NR	720	188	NR	850	4	NR	980	0	NR
465	250	NR	595	894	NR	725	162	NR	855	3	NR	985	0	NR
470	217	NR	600	927	NR	730	140	NR	860	3	NR	990	0	NR
475	228	NR	605	954	NR	735	121	NR	865	2	NR	995	0	NR
480	249	NR	610	976	NR	740	104	NR	870	2	NR	1000	0	NR
485	276	NR	615	992	NR	745	89	NR	875	2	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.69

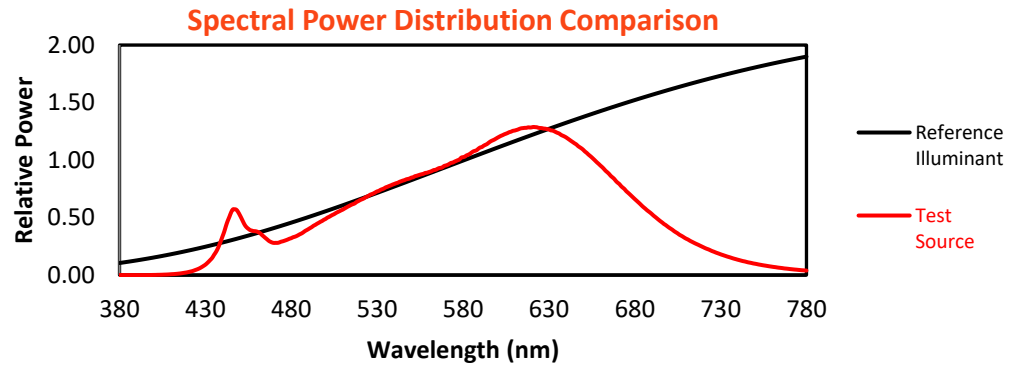
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	310	NR	620	998	NR	750	77	NR	880	2	NR
365	0	NR	495	347	NR	625	993	NR	755	66	NR	885	1	NR
370	0	NR	500	379	NR	630	983	NR	760	56	NR	890	1	NR
375	0	NR	505	412	NR	635	960	NR	765	48	NR	895	1	NR
380	0	NR	510	442	NR	640	930	NR	770	41	NR	900	1	NR
385	0	NR	515	475	NR	645	889	NR	775	35	NR	905	1	NR
390	0	NR	520	506	NR	650	846	NR	780	30	NR	910	1	NR
395	0	NR	525	535	NR	655	794	NR	785	26	NR	915	1	NR
400	1	NR	530	565	NR	660	740	NR	790	22	NR	920	1	NR
405	2	NR	535	592	NR	665	684	NR	795	19	NR	925	1	NR
410	6	NR	540	615	NR	670	624	NR	800	16	NR	930	0	NR
415	10	NR	545	638	NR	675	567	NR	805	14	NR	935	0	NR
420	20	NR	550	658	NR	680	513	NR	810	12	NR	940	0	NR
425	38	NR	555	678	NR	685	459	NR	815	10	NR	945	0	NR
430	70	NR	560	695	NR	690	412	NR	820	9	NR	950	0	NR
435	136	NR	565	716	NR	695	363	NR	825	8	NR	955	0	NR
440	262	NR	570	740	NR	700	320	NR	830	7	NR	960	0	NR
445	424	NR	575	765	NR	705	281	NR	835	6	NR	965	0	NR
450	406	NR	580	796	NR	710	245	NR	840	5	NR	970	0	NR
455	313	NR	585	827	NR	715	215	NR	845	4	NR	975	0	NR
460	294	NR	590	861	NR	720	188	NR	850	4	NR	980	0	NR
465	250	NR	595	894	NR	725	162	NR	855	3	NR	985	0	NR
470	217	NR	600	927	NR	730	140	NR	860	3	NR	990	0	NR
475	228	NR	605	954	NR	735	121	NR	865	2	NR	995	0	NR
480	249	NR	610	976	NR	740	104	NR	870	2	NR	1000	0	NR
485	276	NR	615	992	NR	745	89	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-14

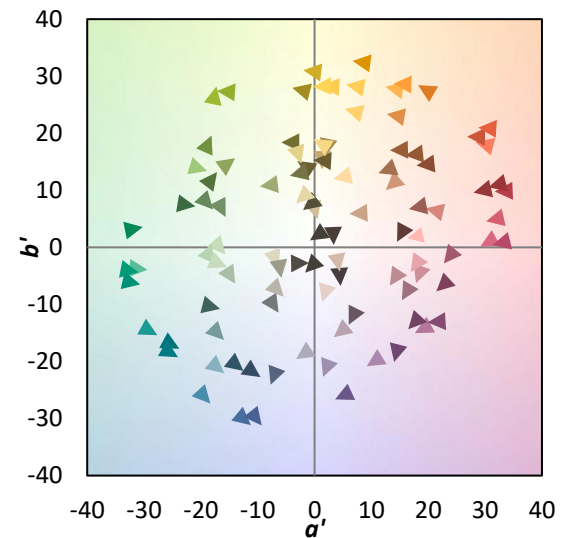
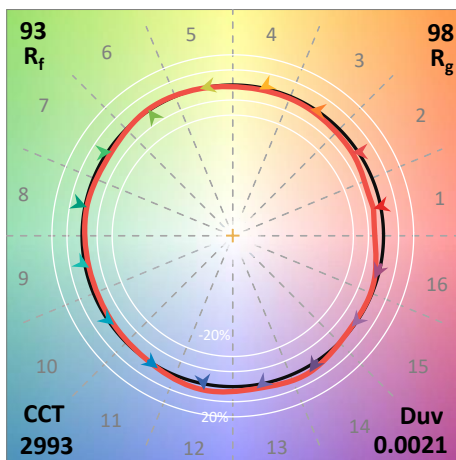
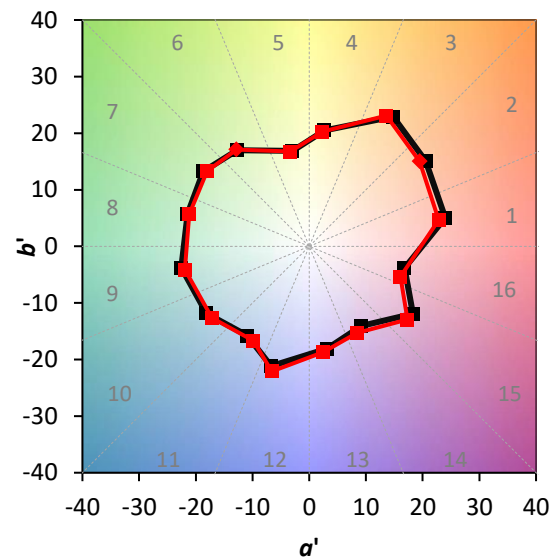
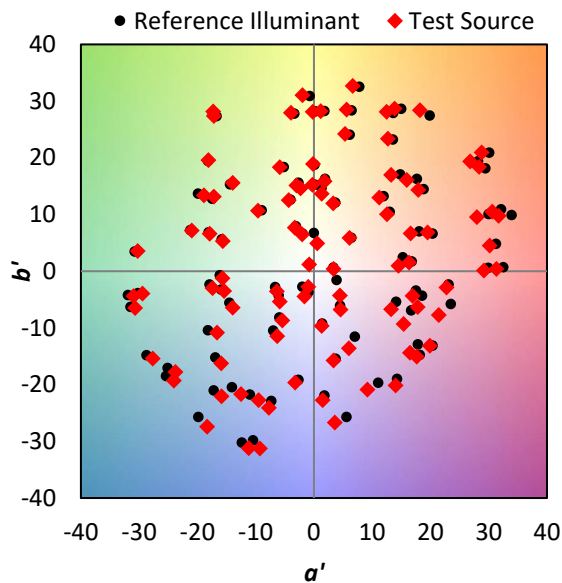
TM-30-18

Summary

$R_f = 92.6$
 $R_g = 98.5$
 $CIE R_a = 92.4$
 $R_9 = 58.2$

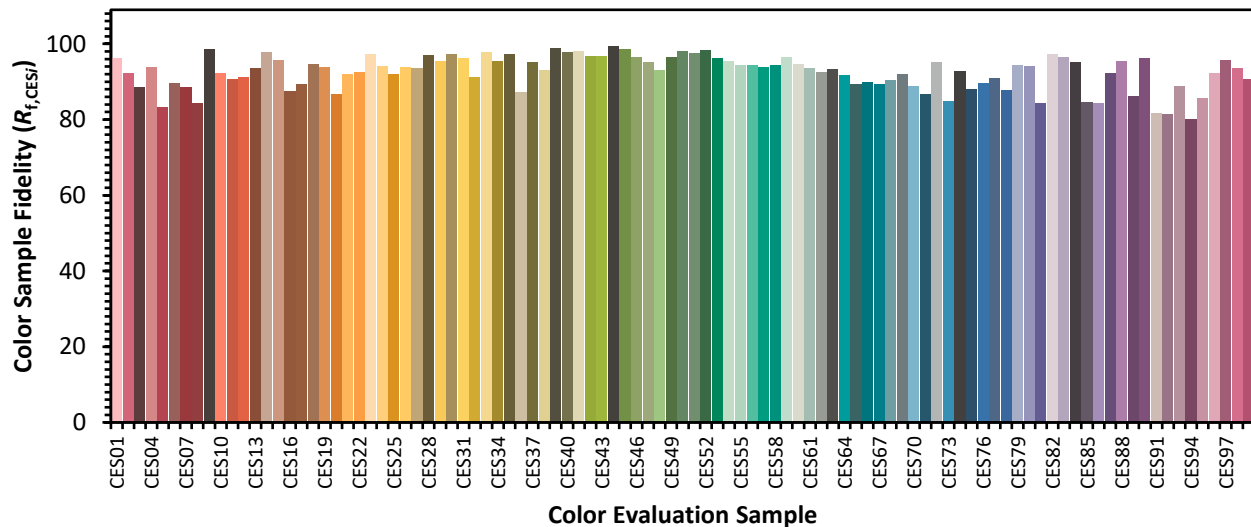


Color Vector Graphics

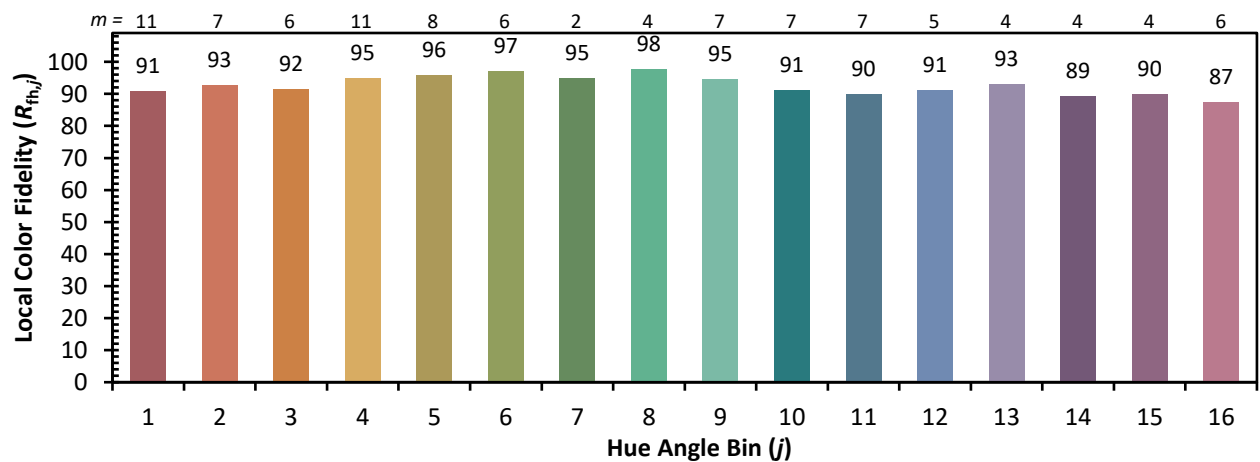
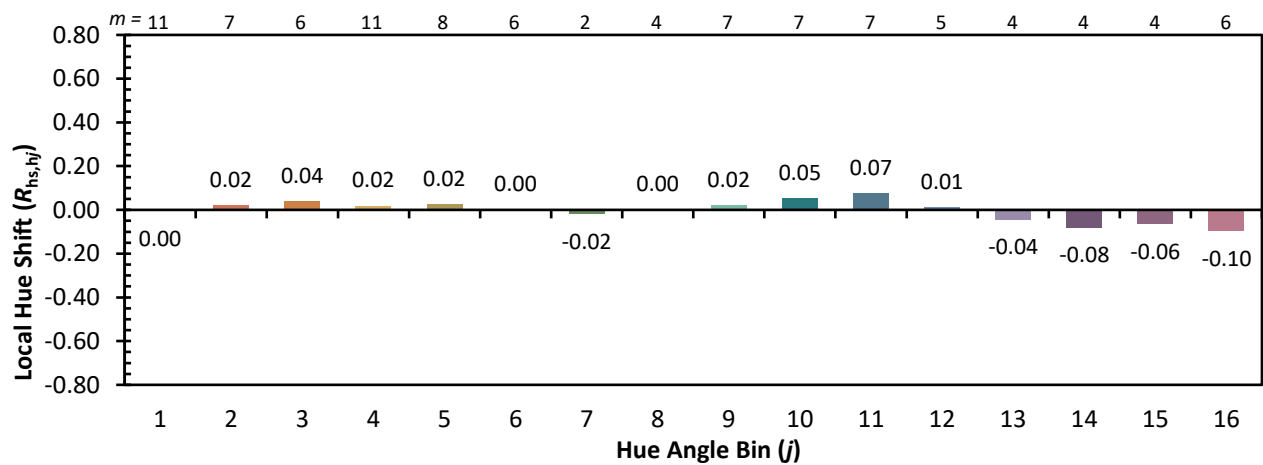
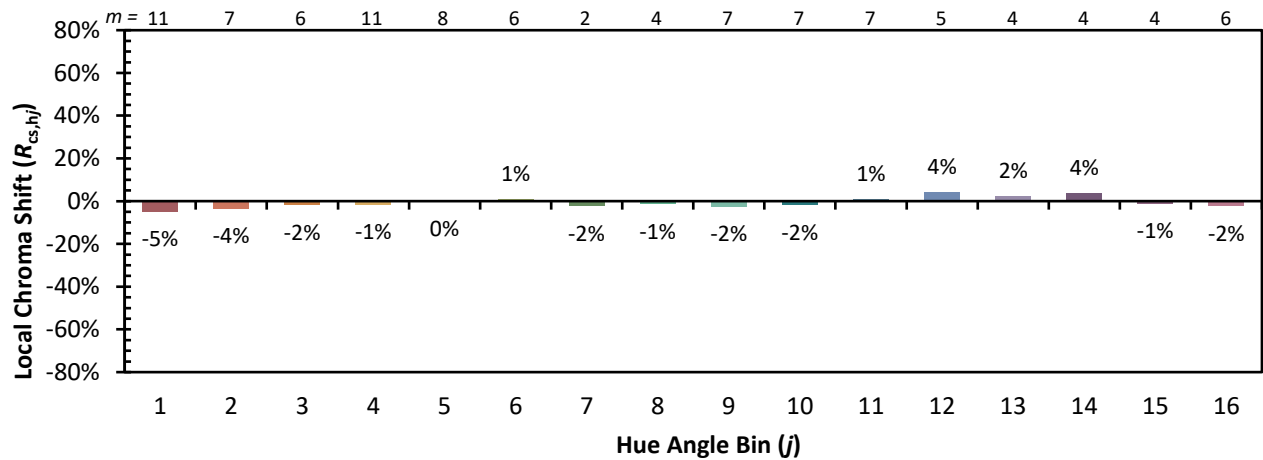


Individual Sample Fidelity Index ($R_{f,i}$)

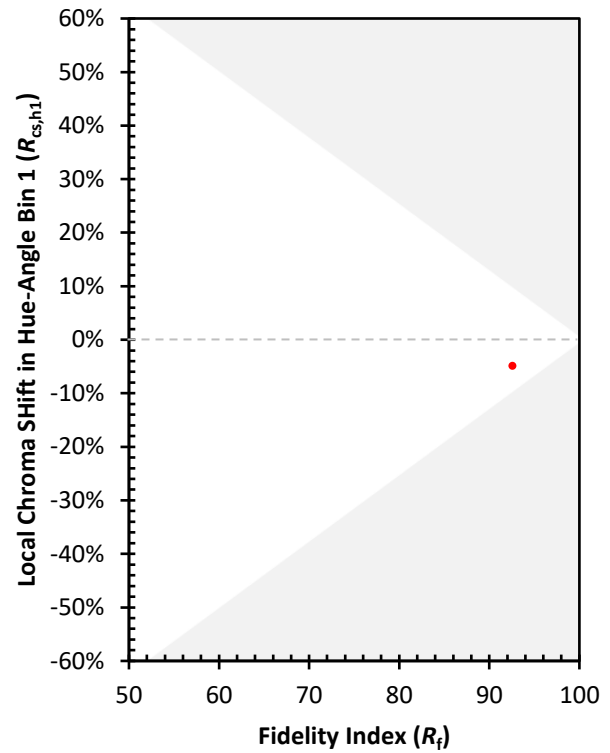
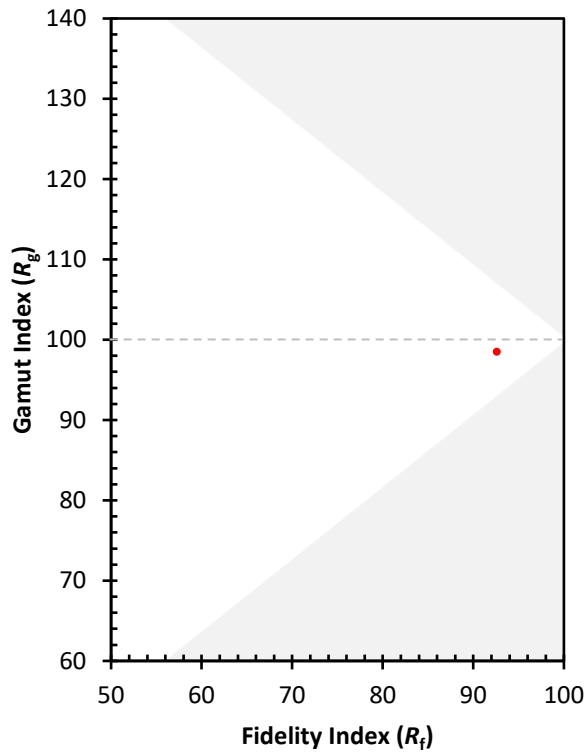
CES01 = 86	CES26 = 94	CES51 = 98	CES76 = 90
CES02 = 63	CES27 = 94	CES52 = 98	CES77 = 91
CES03 = 32	CES28 = 97	CES53 = 96	CES78 = 88
CES04 = 70	CES29 = 95	CES54 = 95	CES79 = 94
CES05 = 51	CES30 = 97	CES55 = 94	CES80 = 94
CES06 = 51	CES31 = 96	CES56 = 94	CES81 = 84
CES07 = 43	CES32 = 91	CES57 = 94	CES82 = 97
CES08 = 42	CES33 = 98	CES58 = 94	CES83 = 97
CES09 = 29	CES34 = 96	CES59 = 97	CES84 = 95
CES10 = 76	CES35 = 97	CES60 = 95	CES85 = 85
CES11 = 59	CES36 = 87	CES61 = 94	CES86 = 84
CES12 = 65	CES37 = 95	CES62 = 92	CES87 = 92
CES13 = 44	CES38 = 93	CES63 = 93	CES88 = 95
CES14 = 74	CES39 = 99	CES64 = 92	CES89 = 86
CES15 = 72	CES40 = 98	CES65 = 89	CES90 = 96
CES16 = 48	CES41 = 98	CES66 = 90	CES91 = 82
CES17 = 50	CES42 = 97	CES67 = 89	CES92 = 81
CES18 = 57	CES43 = 97	CES68 = 90	CES93 = 89
CES19 = 72	CES44 = 99	CES69 = 92	CES94 = 80
CES20 = 67	CES45 = 99	CES70 = 89	CES95 = 86
CES21 = 86	CES46 = 96	CES71 = 87	CES96 = 92
CES22 = 79	CES47 = 95	CES72 = 95	CES97 = 96
CES23 = 92	CES48 = 93	CES73 = 85	CES98 = 94
CES24 = 91	CES49 = 97	CES74 = 93	CES99 = 91
CES25 = 72	CES50 = 98	CES75 = 88	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)