

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: P1050019

Luminaire Tested: **GALN-SA5C-940-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1050019
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-940-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 5xLight Square PACKAGE
90CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18468.1 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

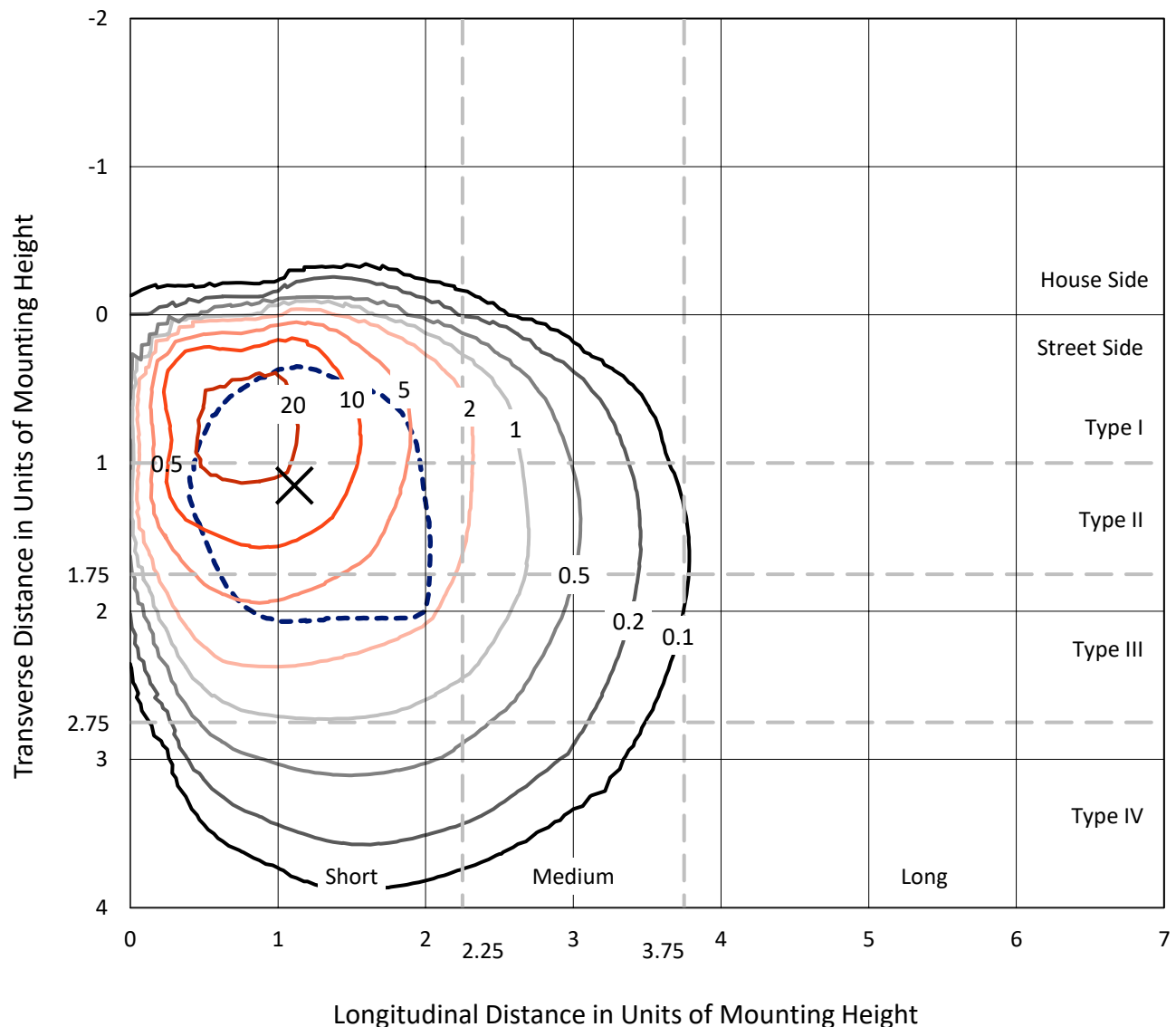
Input Watts (W): 236
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

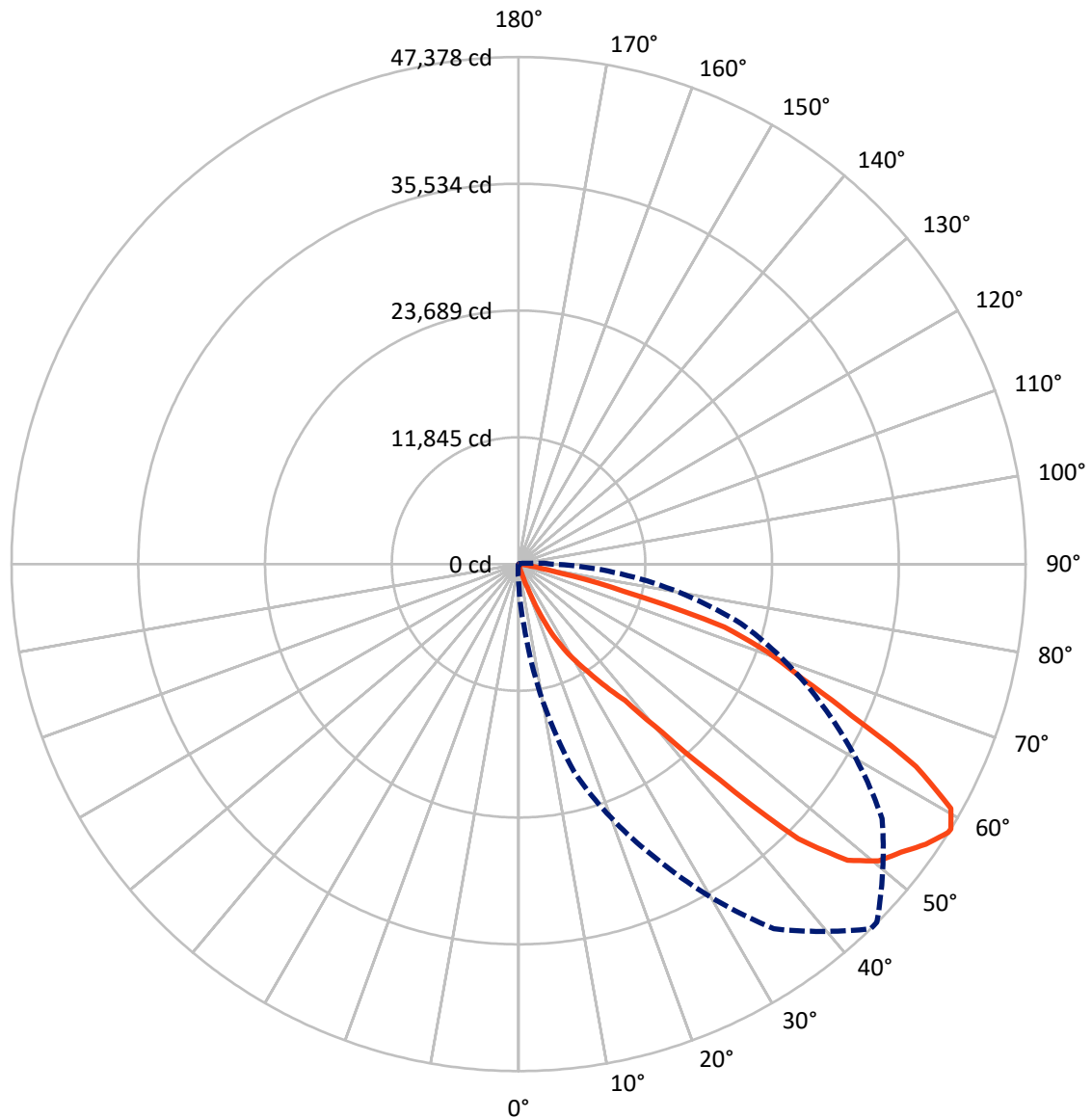
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 32.1 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	126.1	0.0	126.1
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	18342.0	0.0	18342.0
	% Fixture	99.3	0.0	99.3
Total	Lumens	18468.1	0.0	18468.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.2	0.0
10°-20°	40.5	0.2
20°-30°	437.5	2.4
30°-40°	1293.9	7.0
40°-50°	3856.4	20.9
50°-60°	6119.2	33.1
60°-70°	5104.2	27.6
70°-80°	1574.2	8.5
80°-90°	35.0	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°	18468.1	100.0
0°-180°	18468.1	100.0



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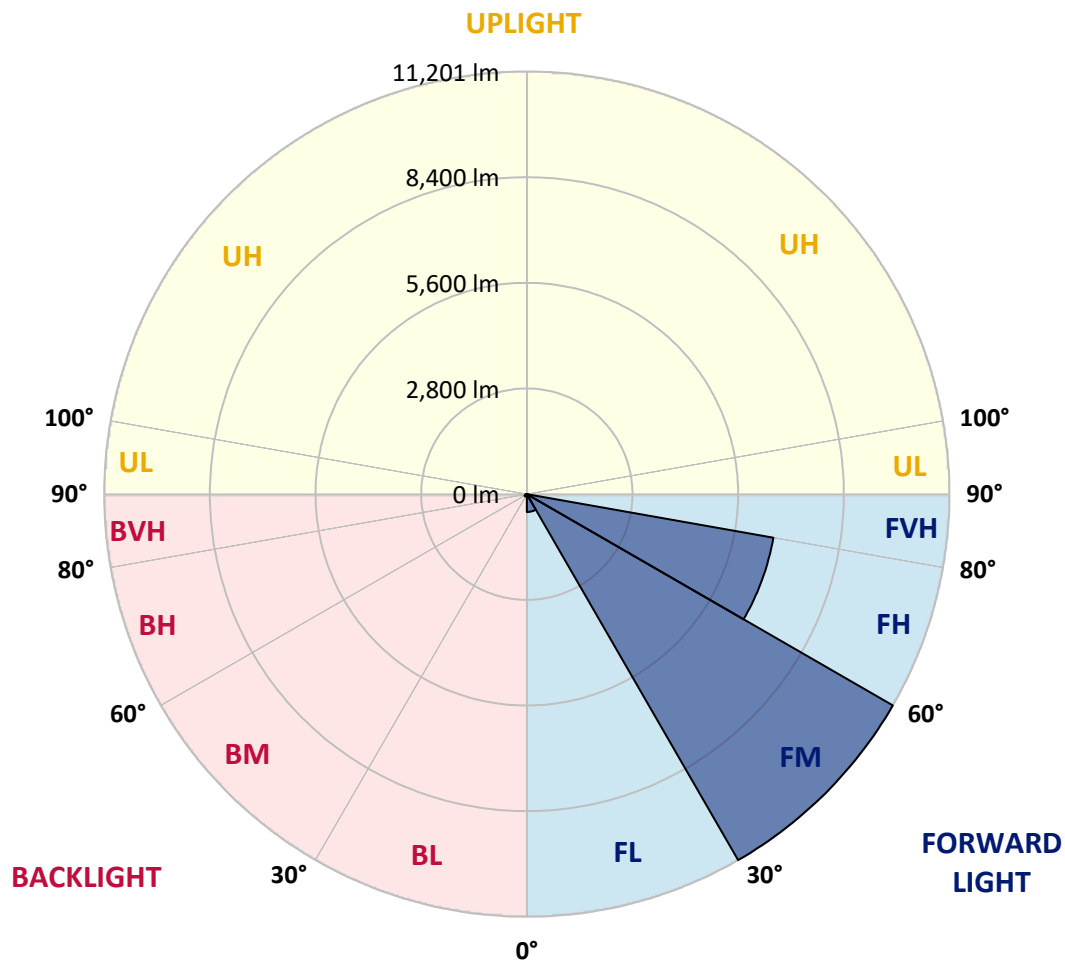
CATALOG NUMBER: GALN-SA5C-940-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	472.9	2.6			
FM	(30°-60°)	11200.5	60.6			
FH	(60°-80°)	6635.3	35.9			G3/7500
FVH	(80°-90°)	33.3	0.2			G1/100
BL	(0°-30°)	12.3	0.1	B0/110		
BM	(30°-60°)	69.0	0.4	B0/220		
BH	(60°-80°)	43.1	0.2	B0/110		G0/110
BVH	(80°-90°)	1.7	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°	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
2.5°	104.6	104.6	100.4	94.9	89.3	83.7	82.3	79.5	78.1	76.7
5°	108.8	108.8	107.4	103.2	97.7	93.5	93.5	89.3	86.5	83.7
7.5°	111.6	113.0	115.8	114.4	111.6	107.4	107.4	104.6	100.4	93.5
10°	115.8	120.0	125.6	128.4	129.7	129.7	128.4	127.0	120.0	110.2
12.5°	120.0	128.4	142.3	156.3	164.6	175.8	174.4	171.6	153.5	132.5
15°	128.4	140.9	170.2	210.7	273.4	312.5	327.9	313.9	253.9	178.6
17.5°	138.1	159.0	246.9	440.9	722.7	856.6	937.5	871.9	577.6	339.0
20°	147.9	193.9	459.0	1142.6	1875.0	2313.1	2434.5	2244.7	1441.1	645.9
22.5°	164.6	272.0	930.5	2361.9	4040.2	4697.3	4821.5	4214.6	2721.9	1275.1
25°	199.5	394.8	1604.4	3849.1	6029.7	7138.8	7087.2	6291.9	4415.5	2036.9
27.5°	249.7	574.8	2426.1	5468.8	7935.4	8913.4	9030.6	8047.0	5886.0	2995.3
30°	322.3	796.6	3307.8	6766.3	9463.0	10520.5	10540.1	9523.0	7201.6	3836.6
32.5°	392.0	1005.9	4079.3	8020.5	10968.4	12127.7	12214.2	10962.8	8183.7	4712.7
35°	445.0	1142.6	4860.6	9122.6	12486.2	14083.6	14078.1	12592.3	9347.2	5495.3
37.5°	449.2	1279.3	5567.9	10249.9	14408.7	16197.2	16374.4	14736.6	10753.5	6463.5
40°	439.5	1432.8	6463.5	12007.7	17872.8	20616.9	20773.2	18708.4	13574.4	8120.9
42.5°	450.6	1699.2	7917.3	15254.1	23624.8	27566.0	27867.3	25696.5	18760.1	11502.7
45°	509.2	2200.1	10962.8	20685.3	31823.9	36628.6	36528.2	33401.7	24793.9	16650.6
47.5°	703.1	3426.4	15477.4	25971.4	37063.9	41342.7	41429.2	37608.0	28315.2	20608.6
50°	1081.2	5242.8	19270.7	28765.8	39317.0	43609.8	43528.8	39113.3	29653.1	22557.5
52.5°	1406.3	6557.0	21173.6	29746.5	39605.8	44730.0	44724.5	39509.5	29860.9	22725.0
55°	1487.2	6656.1	21188.9	29799.6	40253.1	46196.3	46380.4	40484.7	30130.2	21993.9
57.5°	1455.1	5892.9	20304.4	30106.5	41405.5	47330.5	47340.3	41429.2	30813.8	21546.1
58°	1427.2	5773.0	20125.9	30280.9	41603.6	47378.0	47354.2	41472.5	31370.5	21529.3
60°	1270.9	5012.6	19429.7	30725.9	41309.2	46404.2	46182.3	40528.0	31288.1	21357.7
62.5°	998.9	3910.5	18744.7	30211.1	38153.5	41690.1	41782.2	35880.8	28523.0	20357.5
65°	795.2	2914.4	17316.1	26500.1	31417.9	34236.0	34579.2	29177.3	23807.6	17238.0
67.5°	633.4	2106.6	14525.9	21098.3	24860.9	28573.3	28823.0	24496.7	18444.8	13207.5
70°	514.8	1424.4	10026.7	15429.9	20505.3	24679.5	24694.9	20350.5	13767.0	8653.9
72.5°	456.2	986.3	5820.4	11253.0	16626.9	20110.5	19704.5	16513.9	10580.5	5125.6
75°	394.8	654.3	2854.4	6879.3	10081.1	10149.4	10304.3	7660.6	5288.9	2437.3
77.5°	325.1	464.6	1124.5	1879.2	3023.2	3870.0	4013.7	3041.3	1759.2	599.9
80°	223.2	220.4	302.7	576.2	865.0	1084.0	1011.5	782.7	460.4	230.2
82.5°	96.3	104.6	136.7	164.6	133.9	129.7	124.2	79.5	61.4	47.4
85°	30.7	27.9	29.3	29.3	23.7	18.1	18.1	8.4	0.0	0.0
87.5°	15.3	12.6	12.6	11.2	7.0	2.8	1.4	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°
80.9	0°	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
75.3	2.5°	73.9	73.9	71.2	68.4	67.0	64.2	62.8	61.4	60.0	58.6
80.9	5°	78.1	76.7	72.5	68.4	64.2	60.0	57.2	54.4	51.6	50.2
89.3	7.5°	85.1	82.3	73.9	67.0	61.4	55.8	53.0	48.8	46.0	41.9
99.1	10°	93.5	87.9	76.7	68.4	60.0	53.0	48.8	44.6	40.5	34.9
113.0	12.5°	104.6	94.9	80.9	67.0	57.2	48.8	44.6	39.1	34.9	30.7
131.1	15°	114.4	101.8	82.3	67.0	54.4	44.6	39.1	33.5	29.3	23.7
164.6	17.5°	128.4	107.4	80.9	62.8	50.2	39.1	33.5	29.3	22.3	14.0
244.1	20°	152.1	111.6	78.1	58.6	43.2	32.1	25.1	19.5	9.8	2.8
366.9	22.5°	189.7	122.8	75.3	53.0	37.7	25.1	16.7	7.0	0.0	0.0
558.0	25°	262.3	142.3	75.3	50.2	33.5	18.1	5.6	0.0	0.0	0.0
792.4	27.5°	348.8	168.8	75.3	43.2	26.5	9.8	0.0	0.0	0.0	0.0
1079.8	30°	436.7	198.1	75.3	37.7	20.9	1.4	0.0	0.0	0.0	0.0
1329.5	32.5°	520.4	223.2	76.7	32.1	14.0	0.0	0.0	0.0	0.0	0.0
1675.5	35°	605.5	227.4	75.3	27.9	8.4	0.0	0.0	0.0	0.0	0.0
2099.6	37.5°	714.3	219.0	71.2	25.1	4.2	0.0	0.0	0.0	0.0	0.0
2762.3	40°	878.9	223.2	67.0	23.7	1.4	0.0	0.0	0.0	0.0	0.0
3944.0	42.5°	1183.1	241.4	61.4	23.7	0.0	0.0	0.0	0.0	0.0	0.0
6282.2	45°	2045.2	323.7	55.8	25.1	0.0	0.0	0.0	0.0	0.0	0.0
9430.9	47.5°	3383.1	581.8	54.4	25.1	0.0	0.0	0.0	0.0	0.0	0.0
11360.4	50°	4317.9	732.4	57.2	26.5	0.0	0.0	0.0	0.0	0.0	0.0
11601.7	52.5°	4310.9	816.1	60.0	27.9	5.6	0.0	0.0	0.0	0.0	0.0
10693.5	55°	3832.4	831.5	64.2	30.7	18.1	0.0	0.0	0.0	0.0	0.0
9189.6	57.5°	3203.2	758.9	73.9	37.7	33.5	0.0	0.0	0.0	0.0	0.0
8953.8	58°	3091.6	725.5	76.7	39.1	36.3	0.0	0.0	0.0	0.0	0.0
7766.6	60°	2533.5	591.5	97.7	48.8	48.8	0.0	0.0	0.0	0.0	0.0
6367.3	62.5°	1749.5	516.2	111.6	62.8	50.2	0.0	0.0	0.0	0.0	0.0
4694.5	65°	1237.5	466.0	121.4	67.0	40.5	0.0	0.0	0.0	0.0	0.0
3335.7	67.5°	925.0	429.7	133.9	68.4	20.9	0.0	0.0	0.0	0.0	0.0
2092.7	70°	708.7	403.2	164.6	72.5	5.6	0.0	0.0	0.0	0.0	0.0
1247.2	72.5°	577.6	372.5	199.5	75.3	0.0	0.0	0.0	0.0	0.0	0.0
747.8	75°	478.5	336.2	192.5	82.3	0.0	0.0	0.0	0.0	0.0	0.0
399.0	77.5°	318.1	260.9	175.8	82.3	0.0	0.0	0.0	0.0	0.0	0.0
142.3	80°	111.6	103.2	136.7	72.5	0.0	0.0	0.0	0.0	0.0	0.0
29.3	82.5°	16.7	14.0	19.5	25.1	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°
80.9	0°	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
57.2	2.5°	57.2	57.2	55.8	57.2	57.2	60.0	67.0	76.7	87.9	92.1
48.8	5°	47.4	46.0	44.6	44.6	44.6	48.8	54.4	65.6	78.1	83.7
40.5	7.5°	39.1	37.7	36.3	34.9	34.9	37.7	44.6	57.2	69.8	75.3
33.5	10°	32.1	29.3	27.9	26.5	26.5	29.3	36.3	48.8	62.8	68.4
27.9	12.5°	26.5	22.3	19.5	18.1	16.7	20.9	27.9	39.1	54.4	61.4
20.9	15°	18.1	14.0	9.8	8.4	7.0	11.2	18.1	30.7	46.0	54.4
11.2	17.5°	9.8	4.2	1.4	0.0	0.0	2.8	8.4	22.3	37.7	44.6
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2	27.9	34.9
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	16.7	23.7
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	12.6
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
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	4.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	11.2
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°
80.9	0°	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
96.3	2.5°	99.1	97.7	94.9	92.1	92.1	92.1	96.3	100.4	104.6	104.6
86.5	5°	92.1	92.1	90.7	87.9	87.9	89.3	94.9	101.8	107.4	108.8
79.5	7.5°	85.1	87.9	85.1	83.7	85.1	86.5	92.1	100.4	108.8	111.6
73.9	10°	80.9	82.3	82.3	80.9	80.9	83.7	89.3	100.4	111.6	115.8
67.0	12.5°	75.3	78.1	76.7	76.7	76.7	79.5	86.5	99.1	114.4	120.0
60.0	15°	69.8	73.9	73.9	72.5	72.5	73.9	83.7	97.7	118.6	128.4
51.6	17.5°	64.2	68.4	69.8	67.0	67.0	69.8	79.5	97.7	121.4	138.1
41.9	20°	53.0	60.0	64.2	60.0	60.0	62.8	72.5	92.1	122.8	147.9
30.7	22.5°	41.9	48.8	54.4	53.0	53.0	54.4	67.0	87.9	124.2	164.6
18.1	25°	30.7	37.7	41.9	44.6	44.6	48.8	61.4	85.1	129.7	199.5
8.4	27.5°	18.1	26.5	32.1	34.9	36.3	41.9	57.2	82.3	139.5	249.7
0.0	30°	8.4	15.3	22.3	27.9	27.9	37.7	53.0	79.5	152.1	322.3
0.0	32.5°	0.0	7.0	11.2	19.5	20.9	30.7	48.8	76.7	170.2	392.0
0.0	35°	0.0	0.0	5.6	15.3	15.3	25.1	44.6	73.9	198.1	445.0
0.0	37.5°	0.0	0.0	0.0	11.2	12.6	22.3	43.2	72.5	203.7	449.2
0.0	40°	0.0	0.0	0.0	8.4	9.8	20.9	43.2	73.9	184.2	439.5
0.0	42.5°	0.0	0.0	0.0	5.6	7.0	20.9	43.2	76.7	166.0	450.6
0.0	45°	0.0	0.0	0.0	4.2	5.6	22.3	41.9	75.3	156.3	509.2
0.0	47.5°	0.0	0.0	0.0	5.6	8.4	22.3	40.5	73.9	157.6	703.1
0.0	50°	0.0	0.0	0.0	7.0	9.8	22.3	41.9	71.2	173.0	1081.2
0.0	52.5°	0.0	0.0	0.0	5.6	8.4	25.1	46.0	69.8	188.3	1406.3
0.0	55°	0.0	0.0	0.0	1.4	4.2	32.1	50.2	69.8	212.1	1487.2
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	36.3	57.2	73.9	251.1	1455.1
0.0	58°	0.0	0.0	0.0	0.0	0.0	36.3	58.6	73.9	253.9	1427.2
0.0	60°	0.0	0.0	0.0	0.0	0.0	36.3	64.2	82.3	273.4	1270.9
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	30.7	76.7	103.2	284.6	998.9
0.0	65°	0.0	0.0	0.0	0.0	0.0	25.1	90.7	113.0	293.0	795.2
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	23.7	93.5	114.4	297.2	633.4
0.0	70°	0.0	0.0	0.0	0.0	0.0	25.1	92.1	122.8	311.1	514.8
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	27.9	83.7	135.3	311.1	456.2
0.0	75°	0.0	0.0	0.0	0.0	0.0	29.3	78.1	152.1	283.2	394.8
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	27.9	76.7	177.2	252.5	325.1
0.0	80°	2.8	4.2	4.2	2.8	2.8	23.7	75.3	180.0	214.8	223.2
1.4	82.5°	8.4	11.2	9.8	7.0	7.0	20.9	67.0	150.7	111.6	96.3
8.4	85°	15.3	18.1	18.1	15.3	15.3	19.5	41.9	54.4	37.7	30.7
15.3	87.5°	20.9	23.7	23.7	20.9	20.9	19.5	18.1	16.7	15.3	15.3
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: SP1-2407-184-16

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-940-U-5WQ

Data in this report applies to families of products including GSS-SB1A-940-U-5WQ

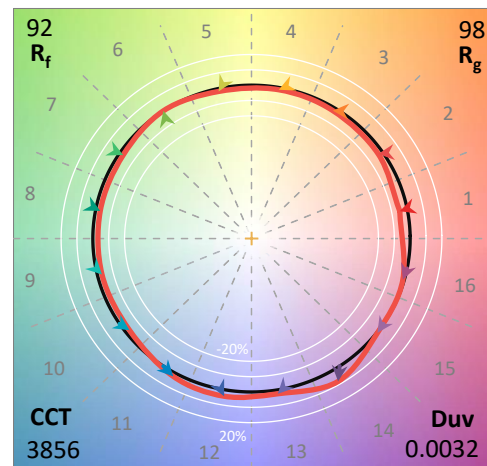
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-16
 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-940-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 4000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3856
 CIE u' : 0.2261
 CIE v' : 0.5084
 Duv: 0.0032
 CIE x: 0.3896
 CIE y: 0.3894
 CIE z: 0.2211
 Peak Wavelength (nm): 614
 Dominant Wavelength (nm): 578
 Purity: 33.77304
 R_f: 91.8
 R_g: 98.4

CRI (Ra): 92.1
 R1: 91.8
 R2: 94.1
 R3: 95.3
 R4: 92.8
 R5: 91.0
 R6: 91.6
 R7: 95.0
 R8: 85.2
 R9: 60.7
 R10: 85.2
 R11: 92.4
 R12: 74.5
 R13: 92.3
 R14: 97.0
 R15: 88.5



Test Conditions

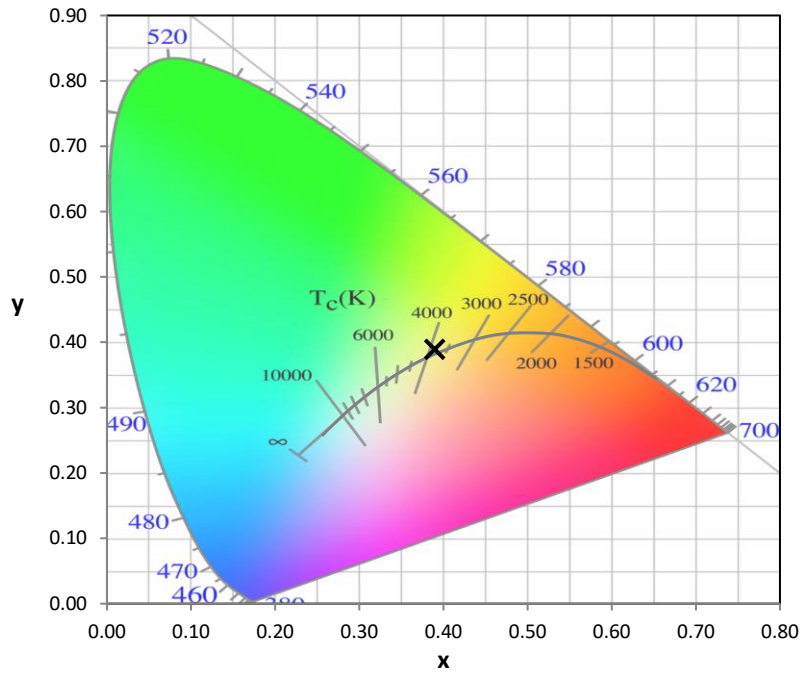
Stabilization Time: 23M
 Operation Time: 1H 23M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-16

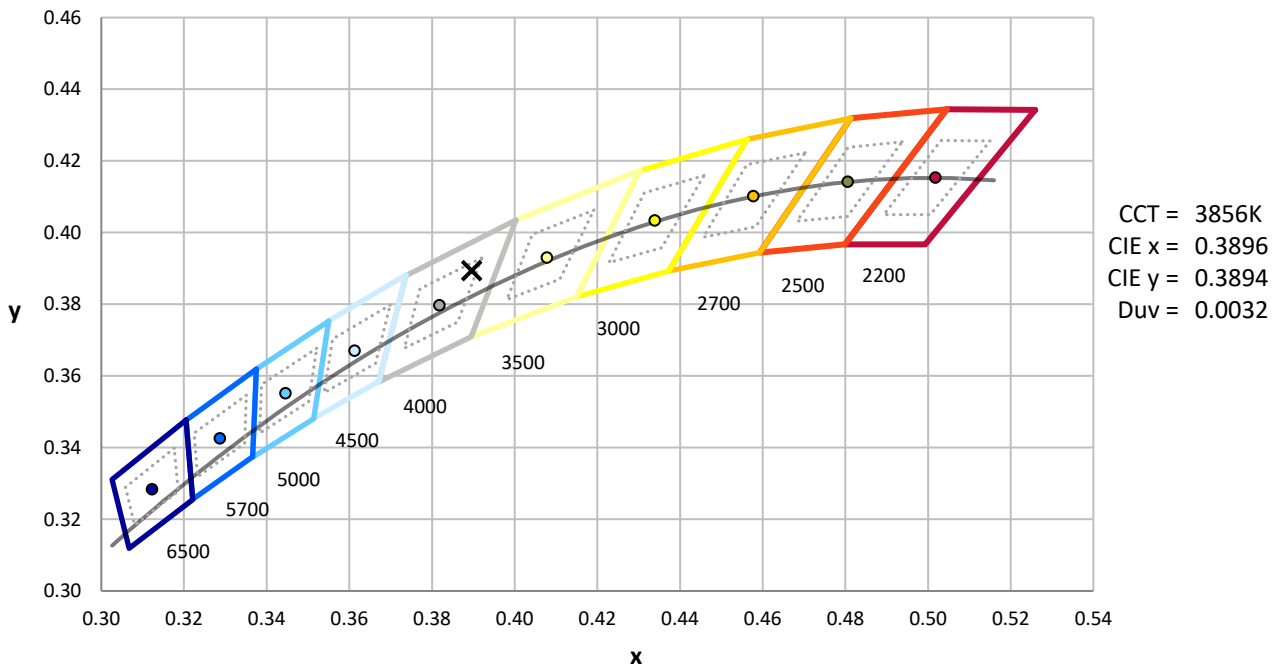
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-16

CIE 1931 Chromaticity Diagram



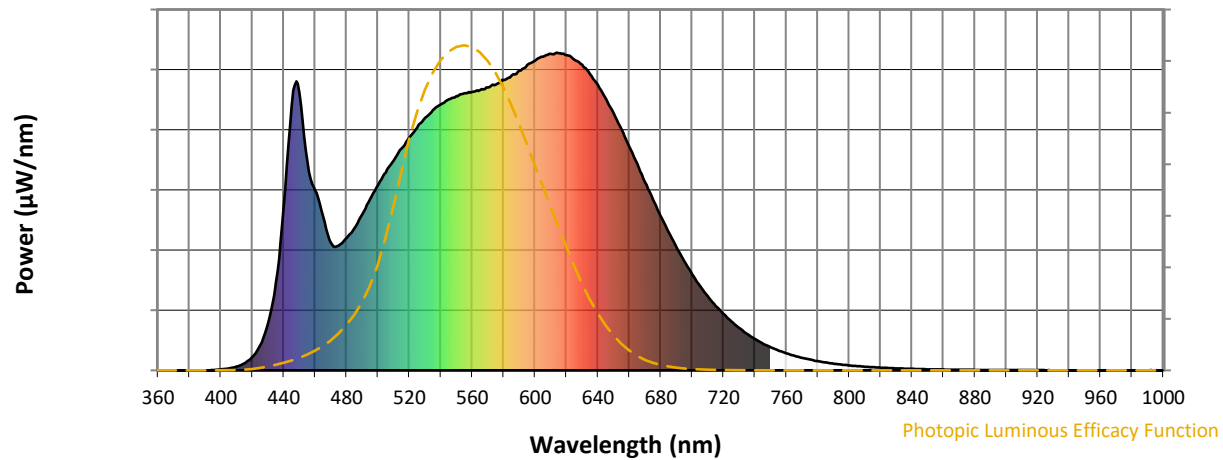
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-16

Photopic Flux vs. Wavelength

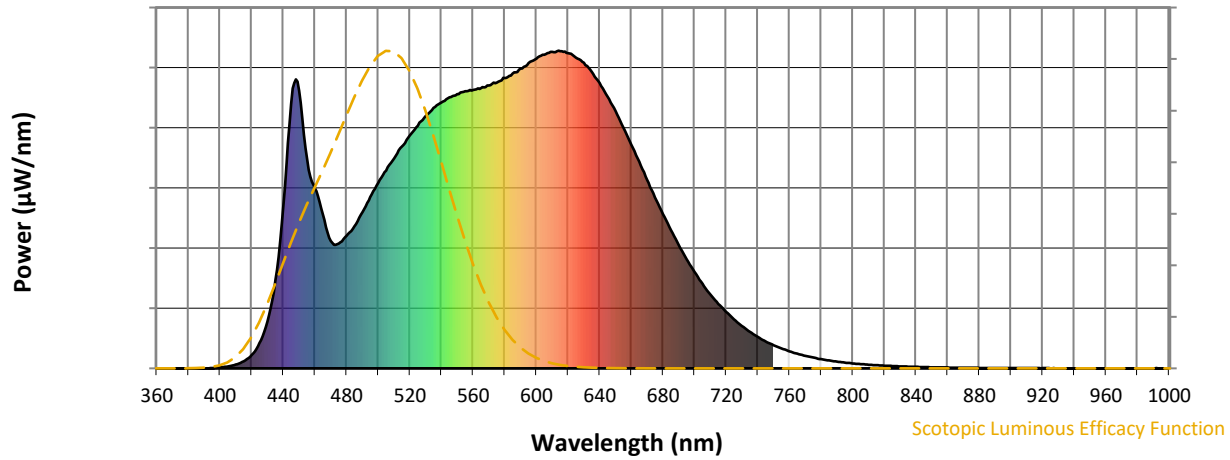


Photopic Lumens: NR

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	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-16

Scotopic Flux vs. Wavelength



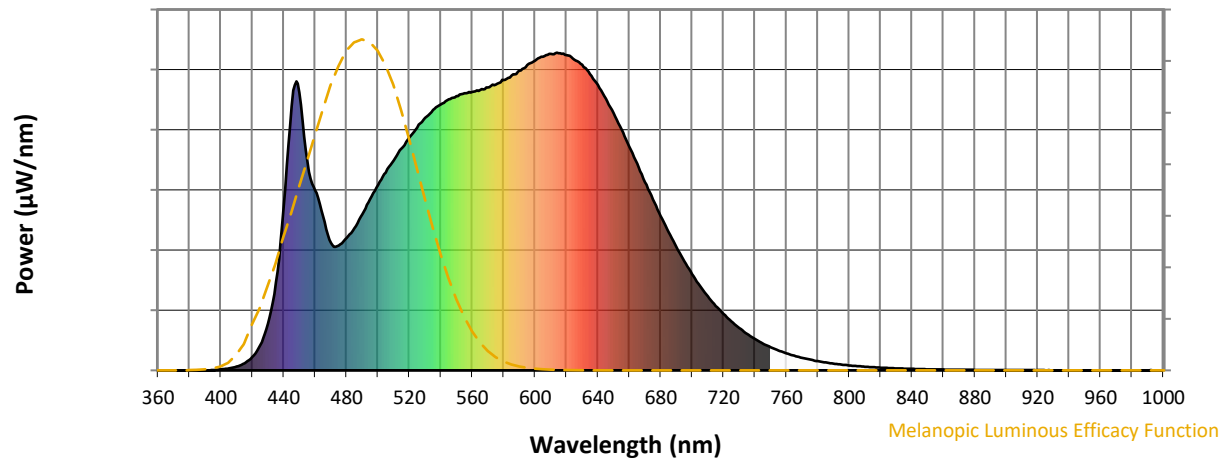
Scotopic Lumens: NR

S/P: 1.72

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	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 3.52

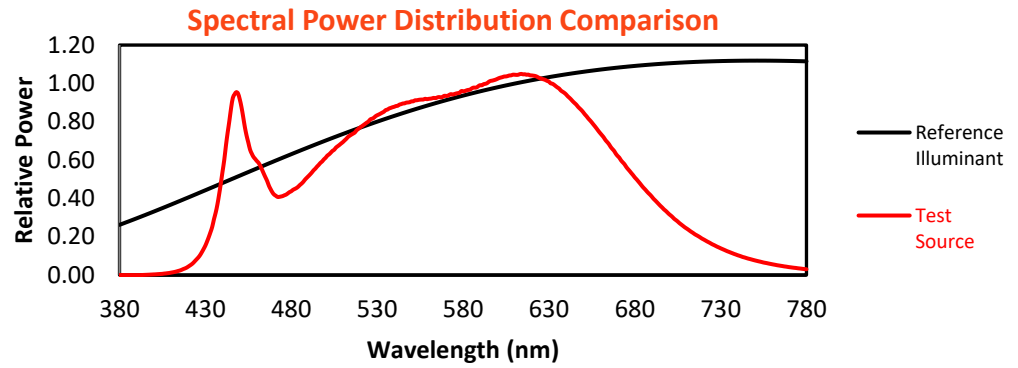
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-16

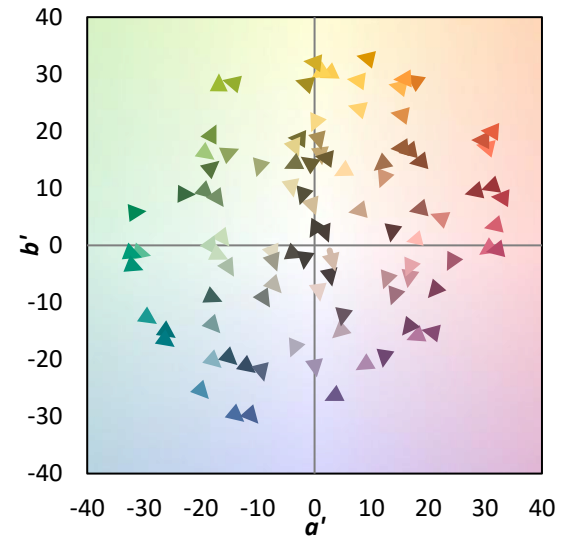
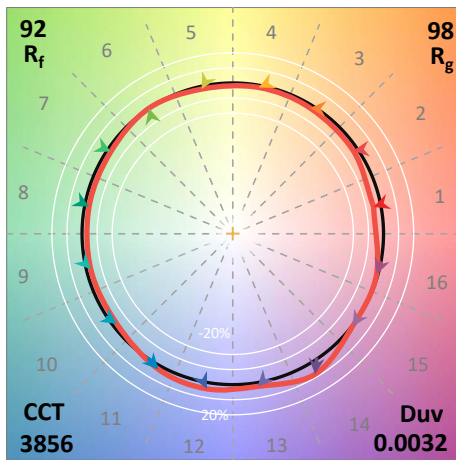
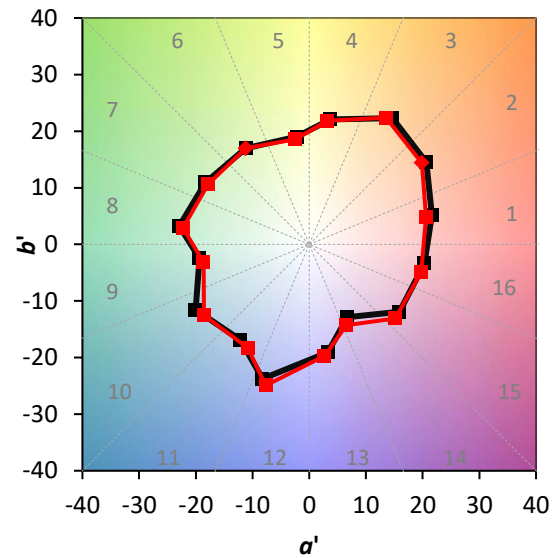
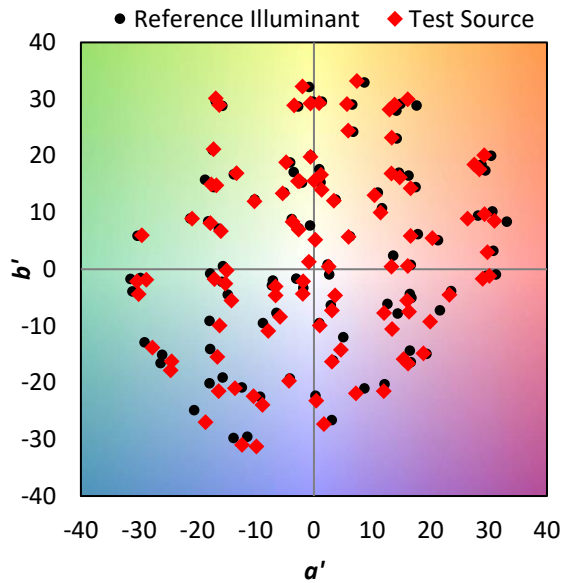
TM-30-18

Summary

$R_f = 91.8$
 $R_g = 98.4$
 $CIE\ R_a = 92.1$
 $R_9 = 60.7$

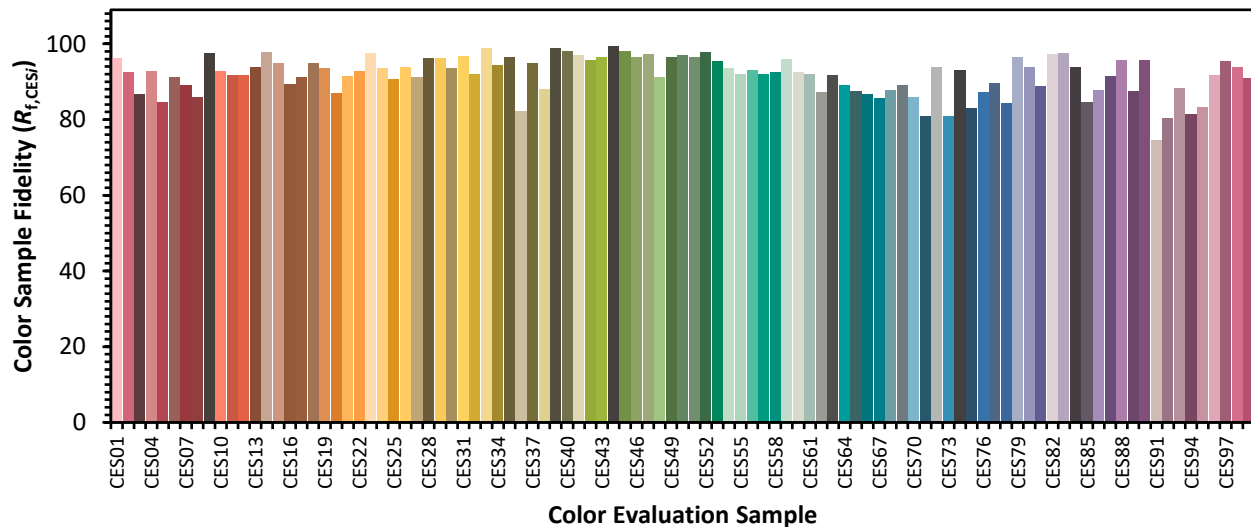


Color Vector Graphics

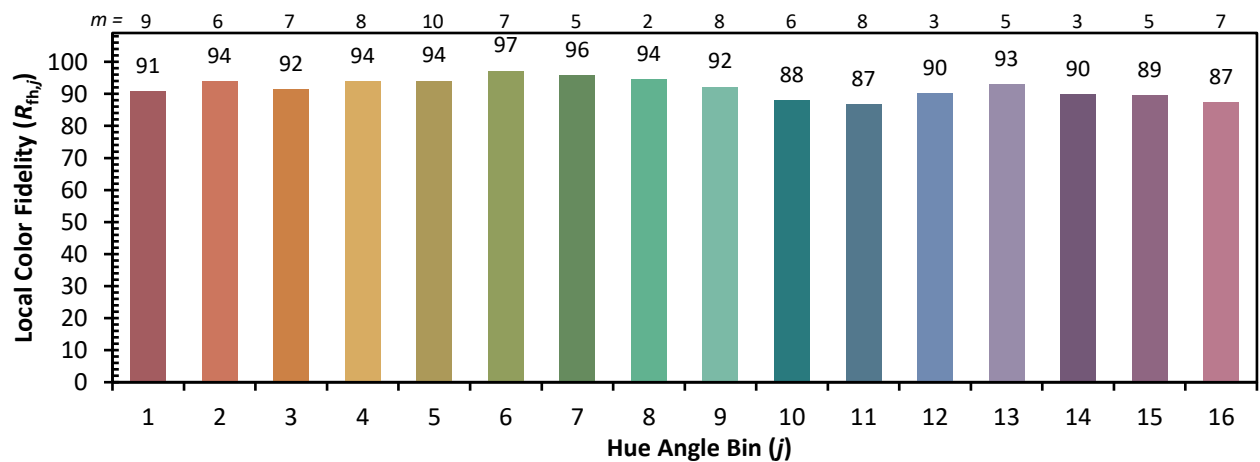
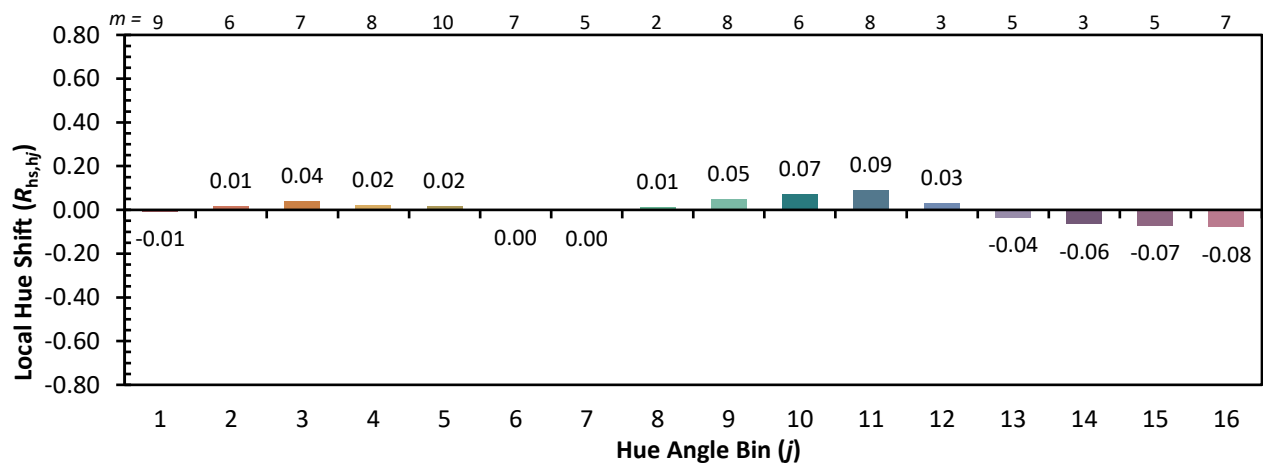
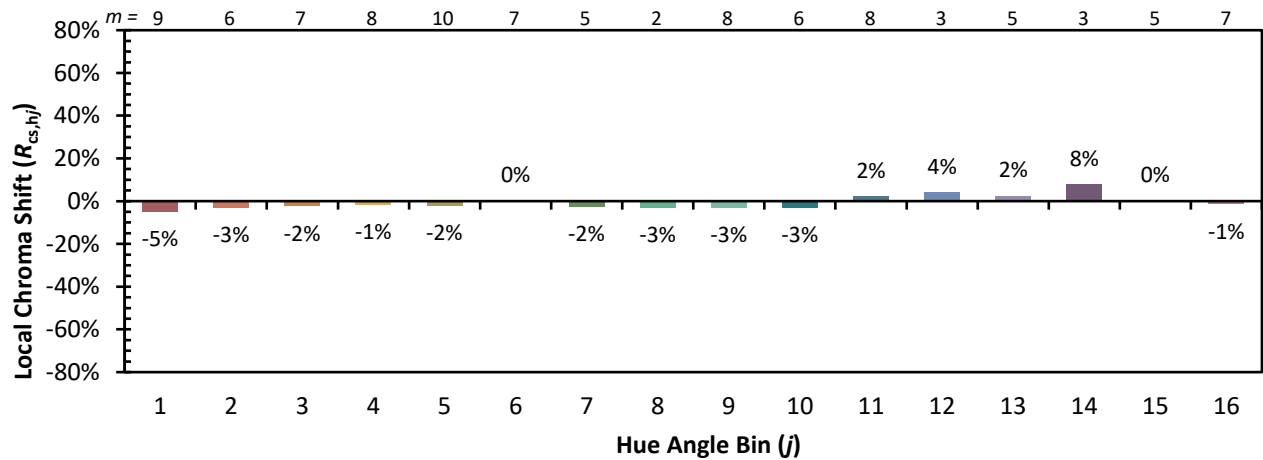


Individual Sample Fidelity Index ($R_{f,i}$)

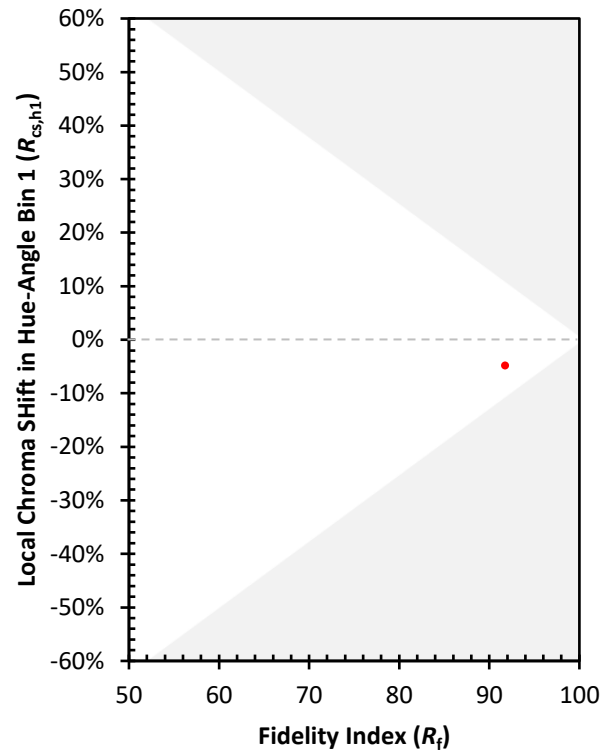
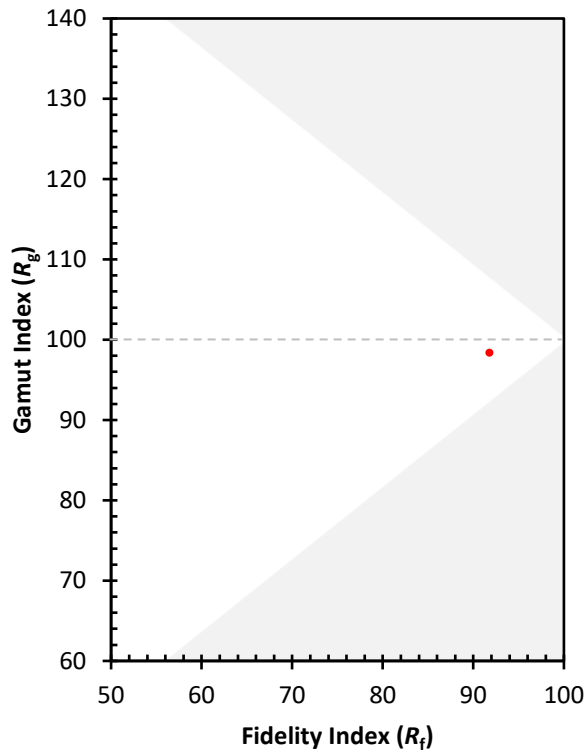
CES01 = 86	CES26 = 94	CES51 = 96	CES76 = 87
CES02 = 62	CES27 = 91	CES52 = 98	CES77 = 90
CES03 = 31	CES28 = 96	CES53 = 95	CES78 = 84
CES04 = 69	CES29 = 96	CES54 = 94	CES79 = 96
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 94
CES06 = 50	CES31 = 97	CES56 = 93	CES81 = 89
CES07 = 42	CES32 = 92	CES57 = 92	CES82 = 97
CES08 = 41	CES33 = 99	CES58 = 92	CES83 = 98
CES09 = 29	CES34 = 94	CES59 = 96	CES84 = 94
CES10 = 74	CES35 = 96	CES60 = 93	CES85 = 85
CES11 = 57	CES36 = 82	CES61 = 92	CES86 = 88
CES12 = 63	CES37 = 95	CES62 = 87	CES87 = 92
CES13 = 43	CES38 = 88	CES63 = 92	CES88 = 96
CES14 = 74	CES39 = 99	CES64 = 89	CES89 = 87
CES15 = 71	CES40 = 98	CES65 = 88	CES90 = 96
CES16 = 47	CES41 = 97	CES66 = 87	CES91 = 74
CES17 = 49	CES42 = 96	CES67 = 86	CES92 = 80
CES18 = 56	CES43 = 96	CES68 = 88	CES93 = 88
CES19 = 71	CES44 = 99	CES69 = 89	CES94 = 82
CES20 = 66	CES45 = 98	CES70 = 86	CES95 = 83
CES21 = 85	CES46 = 97	CES71 = 81	CES96 = 92
CES22 = 78	CES47 = 97	CES72 = 94	CES97 = 95
CES23 = 91	CES48 = 91	CES73 = 81	CES98 = 94
CES24 = 90	CES49 = 96	CES74 = 93	CES99 = 91
CES25 = 71	CES50 = 97	CES75 = 83	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)