

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: P1049493

Luminaire Tested: **GALN-SA9A-740-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049493
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-740-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 9xLight Square PACKAGE
70CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (126) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29352.4 lumens
Efficiency: N/A
Efficacy: 120.0 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): 244.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

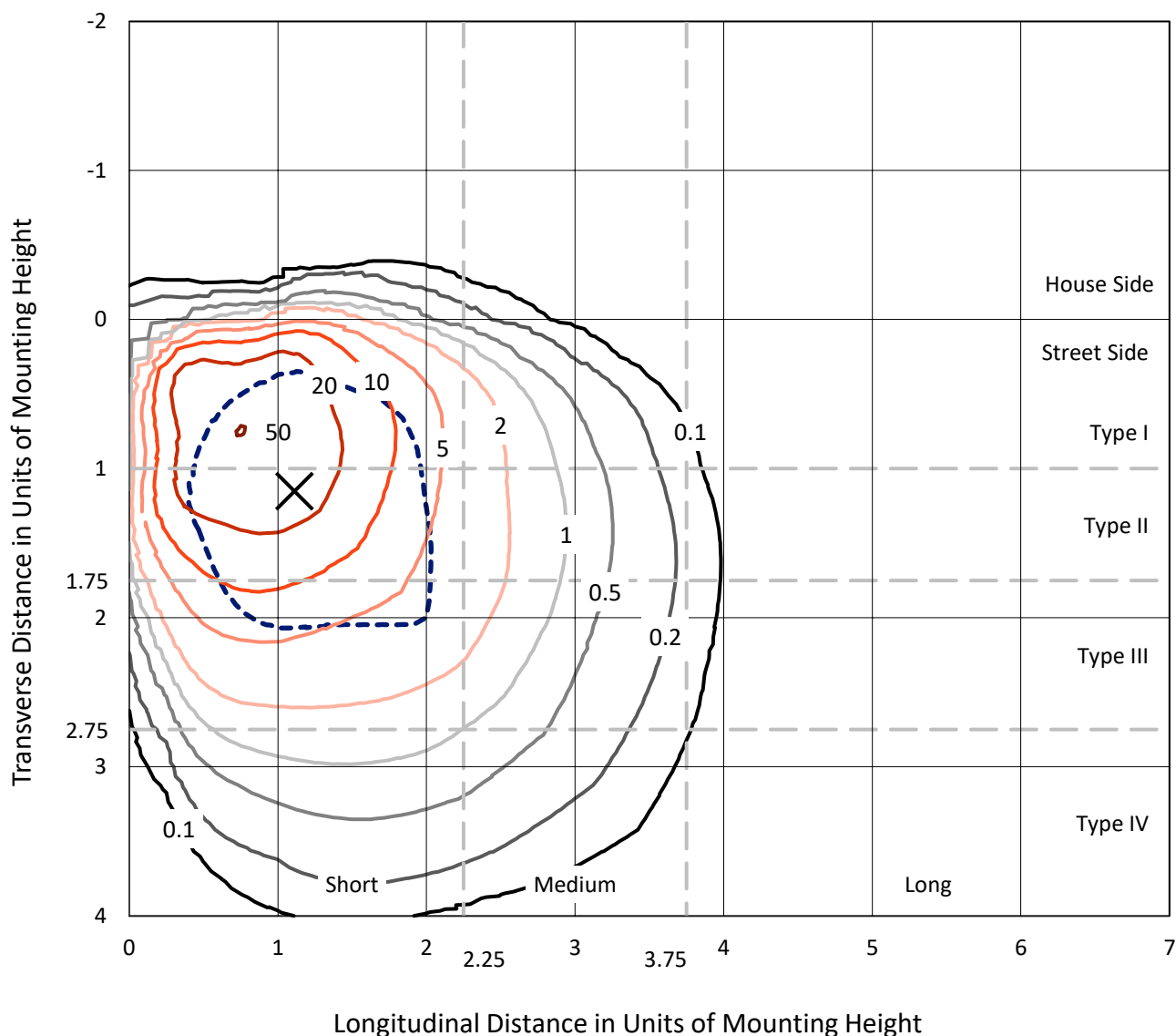
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

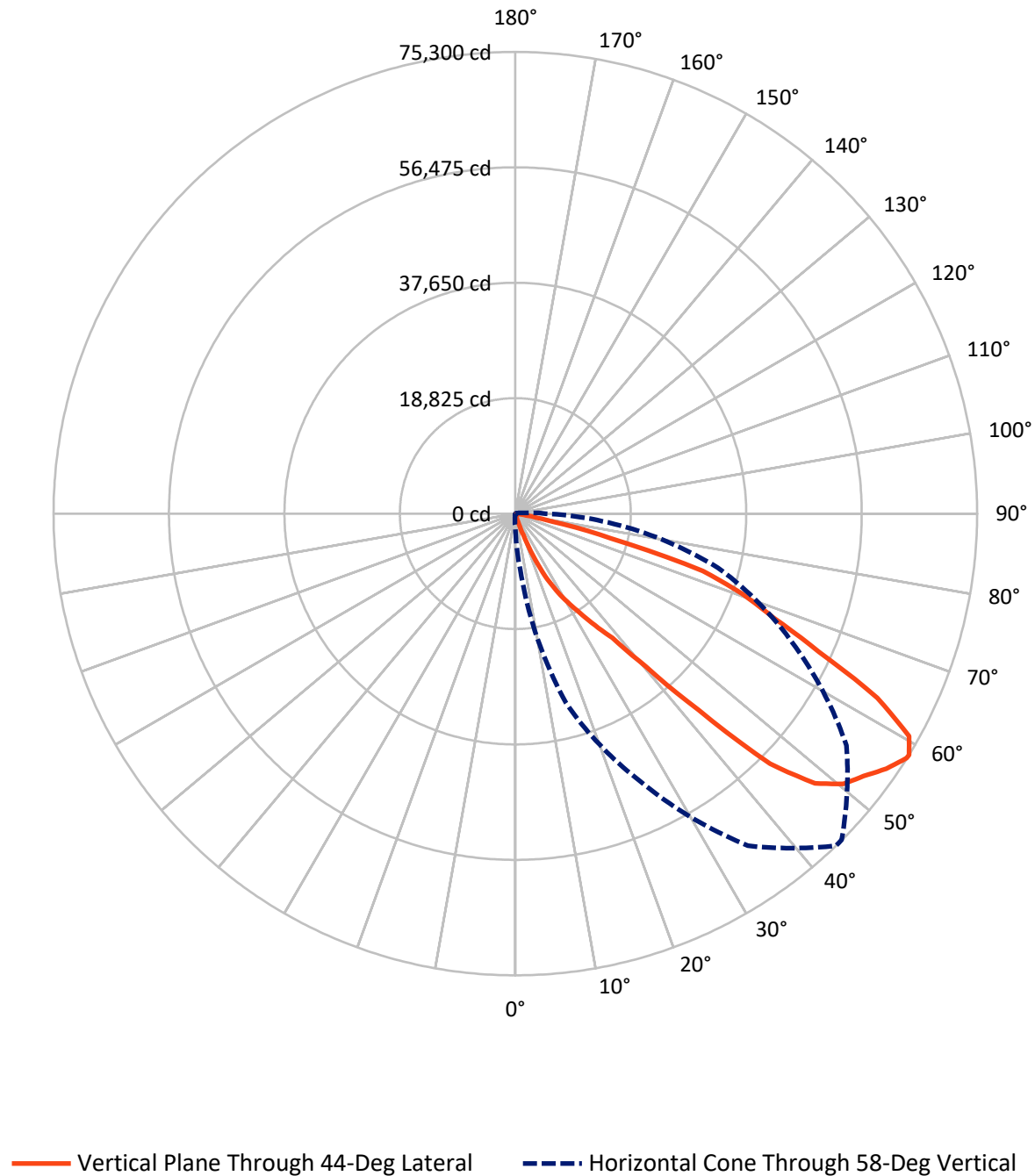
--- 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 51.1 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	200.4	0.0	200.4
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	29152.0	0.0	29152.0
	% Fixture	99.3	0.0	99.3
Total	Lumens	29352.4	0.0	29352.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.5	0.0
10°-20°	64.4	0.2
20°-30°	695.4	2.4
30°-40°	2056.4	7.0
40°-50°	6129.2	20.9
50°-60°	9725.6	33.1
60°-70°	8112.3	27.6
70°-80°	2502.0	8.5
80°-90°	55.6	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°	29352.4	100.0
0°-180°	29352.4	100.0



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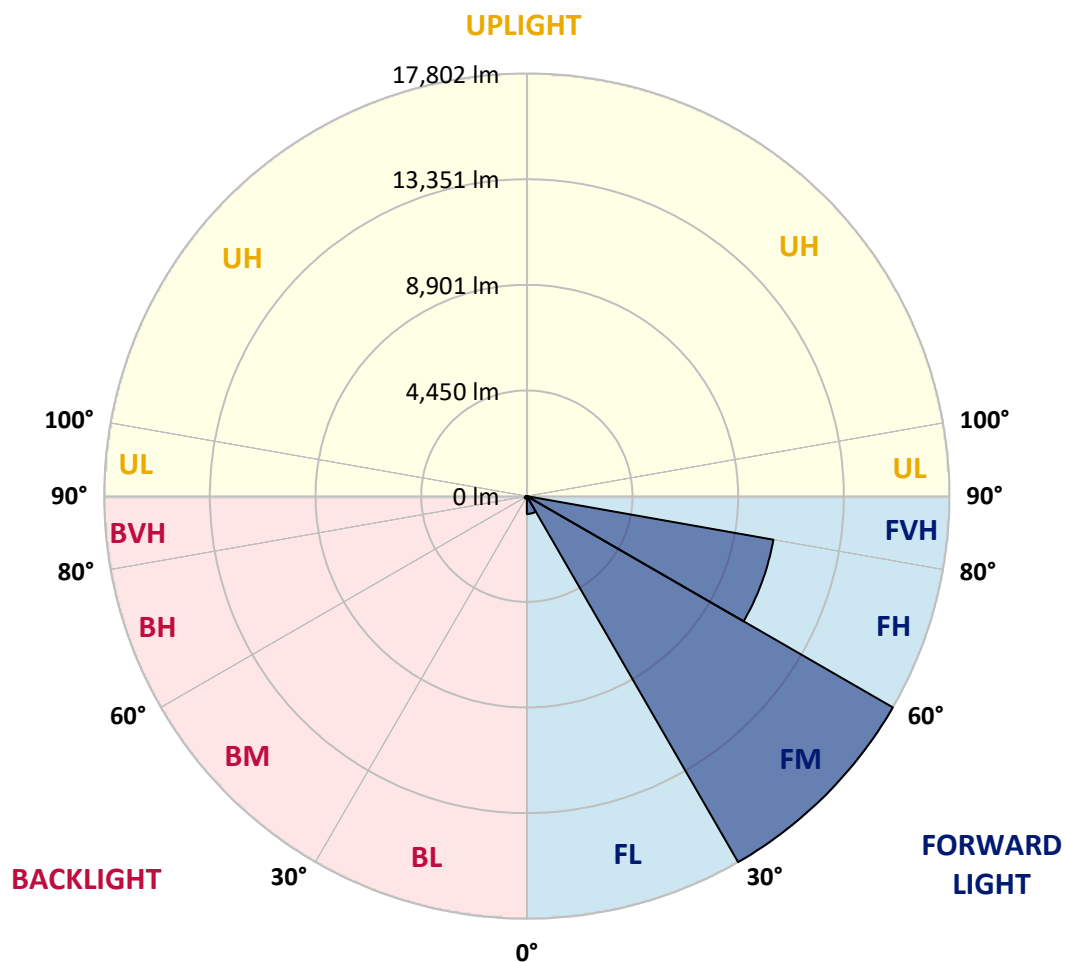
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	751.6	2.6			
FM	(30°-60°)	17801.6	60.6			
FH	(60°-80°)	10545.9	35.9			G4/12000
FVH	(80°-90°)	52.9	0.2			G1/100
BL	(0°-30°)	19.6	0.1	B0/110		
BM	(30°-60°)	109.7	0.4	B0/220		
BH	(60°-80°)	68.4	0.2	B0/110		G0/110
BVH	(80°-90°)	2.7	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	128.6	128.6	128.6	128.6	128.6	128.6	128.6	128.6	128.6	128.6
2.5°	166.3	166.3	159.6	150.8	141.9	133.0	130.8	126.4	124.2	122.0
5°	173.0	173.0	170.7	164.1	155.2	148.6	148.6	141.9	137.5	133.0
7.5°	177.4	179.6	184.0	181.8	177.4	170.7	170.7	166.3	159.6	148.6
10°	184.0	190.7	199.6	204.0	206.2	206.2	204.0	201.8	190.7	175.2
12.5°	190.7	204.0	226.2	248.3	261.6	279.4	277.2	272.7	243.9	210.6
15°	204.0	223.9	270.5	334.8	434.6	496.7	521.1	498.9	403.6	283.8
17.5°	219.5	252.8	392.5	700.7	1148.6	1361.4	1490.0	1385.8	918.0	538.8
20°	235.0	308.2	729.5	1816.0	2980.1	3676.3	3869.2	3567.7	2290.5	1026.6
22.5°	261.6	432.4	1479.0	3753.9	6421.4	7465.7	7663.1	6698.5	4326.0	2026.6
25°	317.1	627.5	2549.9	6117.6	9583.3	11346.0	11264.0	10000.1	7017.8	3237.3
27.5°	396.9	913.5	3855.9	8691.9	12612.1	14166.5	14352.7	12789.5	9354.9	4760.6
30°	512.2	1266.1	5257.3	10754.0	15040.1	16720.8	16751.9	15135.5	11445.8	6097.6
32.5°	623.1	1598.7	6483.5	12747.4	17432.6	19275.2	19412.7	17423.7	13006.8	7490.1
35°	707.3	1816.0	7725.2	14499.1	19845.0	22383.9	22375.0	20013.6	14856.1	8734.0
37.5°	714.0	2033.3	8849.3	16290.7	22900.5	25743.1	26024.7	23421.6	17091.1	10272.9
40°	698.5	2277.2	10272.9	19084.5	28406.1	32767.6	33015.9	29734.3	21574.6	12907.0
42.5°	716.2	2700.7	12583.3	24244.2	37548.2	43812.1	44291.0	40840.9	29816.4	18281.8
45°	809.3	3496.7	17423.7	32876.3	50579.4	58215.8	58056.2	53087.2	39406.3	26463.8
47.5°	1117.5	5445.7	24599.0	41277.7	58907.6	65708.2	65845.6	59772.4	45002.8	32754.3
50°	1718.4	8332.7	30627.9	45719.0	62488.6	69311.3	69182.7	62164.9	47129.2	35851.9
52.5°	2235.1	10421.4	33652.3	47277.8	62947.6	71091.8	71083.0	62794.6	47459.6	36118.0
55°	2363.7	10578.9	33676.7	47362.0	63976.4	73422.2	73714.9	64344.5	47887.5	34956.1
57.5°	2312.7	9366.0	32270.9	47849.8	65807.9	75224.9	75240.4	65845.6	48974.0	34244.3
58°	2268.3	9175.3	31987.1	48127.0	66122.8	75300.3	75262.6	65914.4	49858.7	34217.7
60°	2020.0	7966.8	30880.7	48834.3	65655.0	73752.6	73400.1	64413.3	49727.9	33945.0
62.5°	1587.6	6215.2	29792.0	48016.1	60639.4	66260.3	66406.6	57027.3	45333.2	32355.2
65°	1263.9	4632.0	27521.4	42118.1	49934.1	54413.1	54958.6	46373.1	37838.6	27397.3
67.5°	1006.7	3348.2	23086.8	33532.6	39512.7	45413.0	45809.9	38934.0	29315.2	20991.4
70°	818.2	2263.9	15935.9	24523.6	32590.2	39224.5	39248.8	32344.1	21880.5	13754.1
72.5°	725.1	1567.6	9250.7	17884.9	26426.1	31962.7	31317.5	26246.5	16816.2	8146.4
75°	627.5	1039.9	4536.6	10933.6	16022.4	16131.0	16377.2	12175.3	8405.9	3873.7
77.5°	516.6	738.4	1787.2	2986.7	4804.9	6150.9	6379.2	4833.8	2796.0	953.4
80°	354.8	350.3	481.2	915.8	1374.7	1722.9	1607.6	1243.9	731.7	365.9
82.5°	153.0	166.3	217.3	261.6	212.9	206.2	197.3	126.4	97.6	75.4
85°	48.8	44.3	46.6	46.6	37.7	28.8	28.8	13.3	0.0	0.0
87.5°	24.4	20.0	20.0	17.7	11.1	4.4	2.2	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
128.6	0°	128.6	128.6	128.6	128.6	128.6	128.6	128.6	128.6	128.6	128.6
119.7	2.5°	117.5	117.5	113.1	108.6	106.4	102.0	99.8	97.6	95.3	93.1
128.6	5°	124.2	122.0	115.3	108.6	102.0	95.3	90.9	86.5	82.0	79.8
141.9	7.5°	135.3	130.8	117.5	106.4	97.6	88.7	84.3	77.6	73.2	66.5
157.4	10°	148.6	139.7	122.0	108.6	95.3	84.3	77.6	71.0	64.3	55.4
179.6	12.5°	166.3	150.8	128.6	106.4	90.9	77.6	71.0	62.1	55.4	48.8
208.4	15°	181.8	161.9	130.8	106.4	86.5	71.0	62.1	53.2	46.6	37.7
261.6	17.5°	204.0	170.7	128.6	99.8	79.8	62.1	53.2	46.6	35.5	22.2
388.0	20°	241.7	177.4	124.2	93.1	68.7	51.0	39.9	31.0	15.5	4.4
583.2	22.5°	301.6	195.1	119.7	84.3	59.9	39.9	26.6	11.1	0.0	0.0
886.9	25°	416.9	226.2	119.7	79.8	53.2	28.8	8.9	0.0	0.0	0.0
1259.4	27.5°	554.3	268.3	119.7	68.7	42.1	15.5	0.0	0.0	0.0	0.0
1716.2	30°	694.0	314.9	119.7	59.9	33.3	2.2	0.0	0.0	0.0	0.0
2113.1	32.5°	827.1	354.8	122.0	51.0	22.2	0.0	0.0	0.0	0.0	0.0
2663.0	35°	962.3	361.4	119.7	44.3	13.3	0.0	0.0	0.0	0.0	0.0
3337.1	37.5°	1135.3	348.1	113.1	39.9	6.7	0.0	0.0	0.0	0.0	0.0
4390.3	40°	1396.9	354.8	106.4	37.7	2.2	0.0	0.0	0.0	0.0	0.0
6268.4	42.5°	1880.3	383.6	97.6	37.7	0.0	0.0	0.0	0.0	0.0	0.0
9984.6	45°	3250.6	514.4	88.7	39.9	0.0	0.0	0.0	0.0	0.0	0.0
14989.1	47.5°	5377.0	924.6	86.5	39.9	0.0	0.0	0.0	0.0	0.0	0.0
18055.7	50°	6862.6	1164.1	90.9	42.1	0.0	0.0	0.0	0.0	0.0	0.0
18439.3	52.5°	6851.5	1297.1	95.3	44.3	8.9	0.0	0.0	0.0	0.0	0.0
16995.8	55°	6091.0	1321.5	102.0	48.8	28.8	0.0	0.0	0.0	0.0	0.0
14605.5	57.5°	5091.0	1206.2	117.5	59.9	53.2	0.0	0.0	0.0	0.0	0.0
14230.8	58°	4913.6	1153.0	122.0	62.1	57.7	0.0	0.0	0.0	0.0	0.0
12343.8	60°	4026.7	940.1	155.2	77.6	77.6	0.0	0.0	0.0	0.0	0.0
10119.9	62.5°	2780.5	820.4	177.4	99.8	79.8	0.0	0.0	0.0	0.0	0.0
7461.3	65°	1966.8	740.6	192.9	106.4	64.3	0.0	0.0	0.0	0.0	0.0
5301.6	67.5°	1470.1	682.9	212.9	108.6	33.3	0.0	0.0	0.0	0.0	0.0
3326.0	70°	1126.4	640.8	261.6	115.3	8.9	0.0	0.0	0.0	0.0	0.0
1982.3	72.5°	918.0	592.0	317.1	119.7	0.0	0.0	0.0	0.0	0.0	0.0
1188.5	75°	760.5	534.4	306.0	130.8	0.0	0.0	0.0	0.0	0.0	0.0
634.2	77.5°	505.5	414.6	279.4	130.8	0.0	0.0	0.0	0.0	0.0	0.0
226.2	80°	177.4	164.1	217.3	115.3	0.0	0.0	0.0	0.0	0.0	0.0
46.6	82.5°	26.6	22.2	31.0	39.9	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°
128.6	0°	128.6	128.6	128.6	128.6	128.6	128.6	128.6	128.6	128.6	128.6
90.9	2.5°	90.9	90.9	88.7	90.9	90.9	95.3	106.4	122.0	139.7	146.3
77.6	5°	75.4	73.2	71.0	71.0	71.0	77.6	86.5	104.2	124.2	133.0
64.3	7.5°	62.1	59.9	57.7	55.4	55.4	59.9	71.0	90.9	110.9	119.7
53.2	10°	51.0	46.6	44.3	42.1	42.1	46.6	57.7	77.6	99.8	108.6
44.3	12.5°	42.1	35.5	31.0	28.8	26.6	33.3	44.3	62.1	86.5	97.6
33.3	15°	28.8	22.2	15.5	13.3	11.1	17.7	28.8	48.8	73.2	86.5
17.7	17.5°	15.5	6.7	2.2	0.0	0.0	4.4	13.3	35.5	59.9	71.0
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.7	44.3	55.4
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	26.6	37.7
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	20.0
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
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	6.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	17.7
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°
128.6	0°	128.6	128.6	128.6	128.6	128.6	128.6	128.6	128.6	128.6	128.6
153.0	2.5°	157.4	155.2	150.8	146.3	146.3	146.3	153.0	159.6	166.3	166.3
137.5	5°	146.3	146.3	144.1	139.7	139.7	141.9	150.8	161.9	170.7	173.0
126.4	7.5°	135.3	139.7	135.3	133.0	135.3	137.5	146.3	159.6	173.0	177.4
117.5	10°	128.6	130.8	130.8	128.6	128.6	133.0	141.9	159.6	177.4	184.0
106.4	12.5°	119.7	124.2	122.0	122.0	122.0	126.4	137.5	157.4	181.8	190.7
95.3	15°	110.9	117.5	117.5	115.3	115.3	117.5	133.0	155.2	188.5	204.0
82.0	17.5°	102.0	108.6	110.9	106.4	106.4	110.9	126.4	155.2	192.9	219.5
66.5	20°	84.3	95.3	102.0	95.3	95.3	99.8	115.3	146.3	195.1	235.0
48.8	22.5°	66.5	77.6	86.5	84.3	84.3	86.5	106.4	139.7	197.3	261.6
28.8	25°	48.8	59.9	66.5	71.0	71.0	77.6	97.6	135.3	206.2	317.1
13.3	27.5°	28.8	42.1	51.0	55.4	57.7	66.5	90.9	130.8	221.7	396.9
0.0	30°	13.3	24.4	35.5	44.3	44.3	59.9	84.3	126.4	241.7	512.2
0.0	32.5°	0.0	11.1	17.7	31.0	33.3	48.8	77.6	122.0	270.5	623.1
0.0	35°	0.0	0.0	8.9	24.4	24.4	39.9	71.0	117.5	314.9	707.3
0.0	37.5°	0.0	0.0	0.0	17.7	20.0	35.5	68.7	115.3	323.7	714.0
0.0	40°	0.0	0.0	0.0	13.3	15.5	33.3	68.7	117.5	292.7	698.5
0.0	42.5°	0.0	0.0	0.0	8.9	11.1	33.3	68.7	122.0	263.9	716.2
0.0	45°	0.0	0.0	0.0	6.7	8.9	35.5	66.5	119.7	248.3	809.3
0.0	47.5°	0.0	0.0	0.0	8.9	13.3	35.5	64.3	117.5	250.6	1117.5
0.0	50°	0.0	0.0	0.0	11.1	15.5	35.5	66.5	113.1	274.9	1718.4
0.0	52.5°	0.0	0.0	0.0	8.9	13.3	39.9	73.2	110.9	299.3	2235.1
0.0	55°	0.0	0.0	0.0	2.2	6.7	51.0	79.8	110.9	337.0	2363.7
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	57.7	90.9	117.5	399.1	2312.7
0.0	58°	0.0	0.0	0.0	0.0	0.0	57.7	93.1	117.5	403.6	2268.3
0.0	60°	0.0	0.0	0.0	0.0	0.0	57.7	102.0	130.8	434.6	2020.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	48.8	122.0	164.1	452.3	1587.6
0.0	65°	0.0	0.0	0.0	0.0	0.0	39.9	144.1	179.6	465.6	1263.9
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	37.7	148.6	181.8	472.3	1006.7
0.0	70°	0.0	0.0	0.0	0.0	0.0	39.9	146.3	195.1	494.5	818.2
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	44.3	133.0	215.1	494.5	725.1
0.0	75°	0.0	0.0	0.0	0.0	0.0	46.6	124.2	241.7	450.1	627.5
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	44.3	122.0	281.6	401.3	516.6
0.0	80°	4.4	6.7	6.7	4.4	4.4	37.7	119.7	286.0	341.5	354.8
2.2	82.5°	13.3	17.7	15.5	11.1	11.1	33.3	106.4	239.5	177.4	153.0
13.3	85°	24.4	28.8	28.8	24.4	24.4	31.0	66.5	86.5	59.9	48.8
24.4	87.5°	33.3	37.7	37.7	33.3	33.3	31.0	28.8	26.6	24.4	24.4
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: SP1-2407-184-1

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-740-U-5WQ

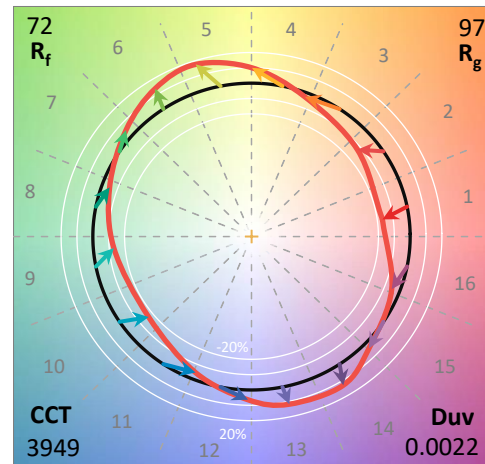
Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-1
 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-740-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 4000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3949	CRI (Ra):	70.7		
CIE u':	0.2248	R1:	68.0	R9:	-36.7
CIE v':	0.5053	R2:	76.0	R10:	45.1
Duv:	0.0022	R3:	84.3	R11:	70.7
CIE x:	0.3844	R4:	72.0	R12:	47.1
CIE y:	0.3840	R5:	68.6	R13:	68.5
CIE z:	0.2316	R6:	68.3	R14:	91.1
Peak Wavelength (nm):	440	R7:	77.9	R15:	58.7
Dominant Wavelength (nm):	578	R8:	50.3		
Purity:	30.60026				
Rf:	71.8				
Rg:	96.5				



Test Conditions

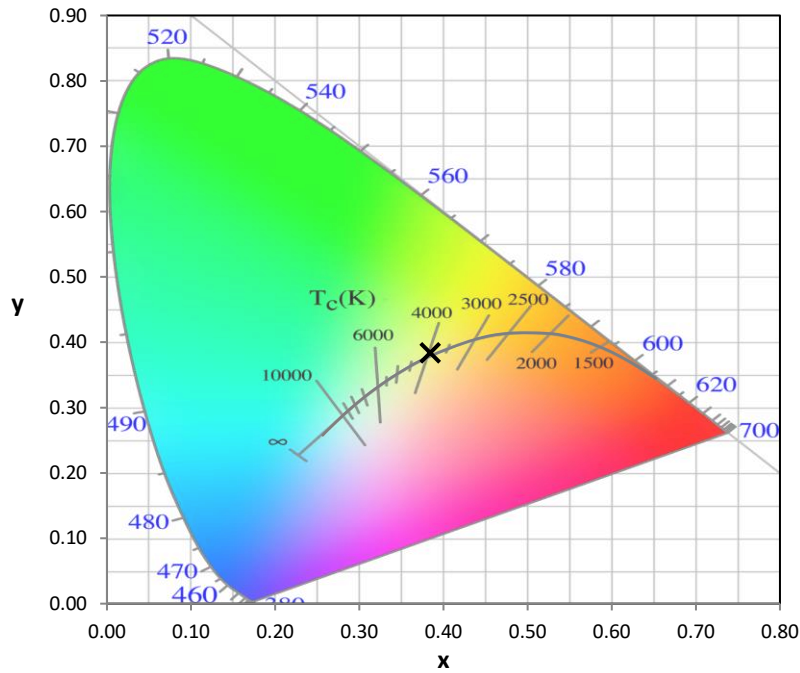
Stabilization Time: 34M
 Operation Time: 1H 34M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-1

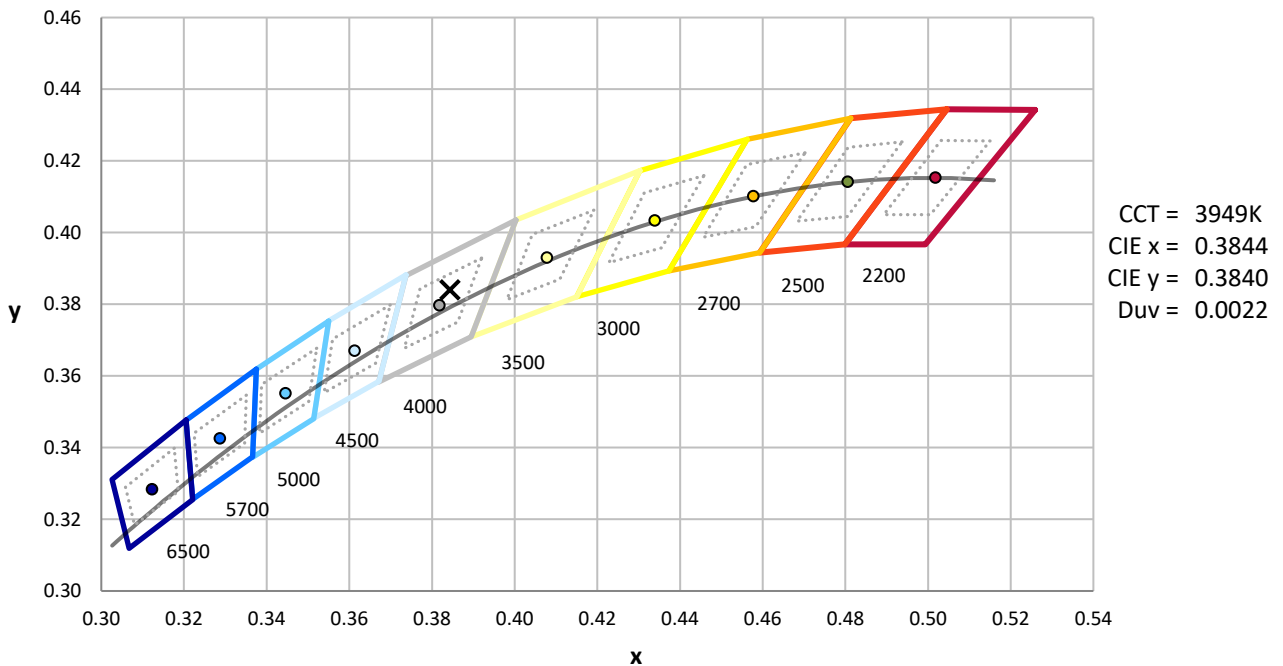
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-1

CIE 1931 Chromaticity Diagram



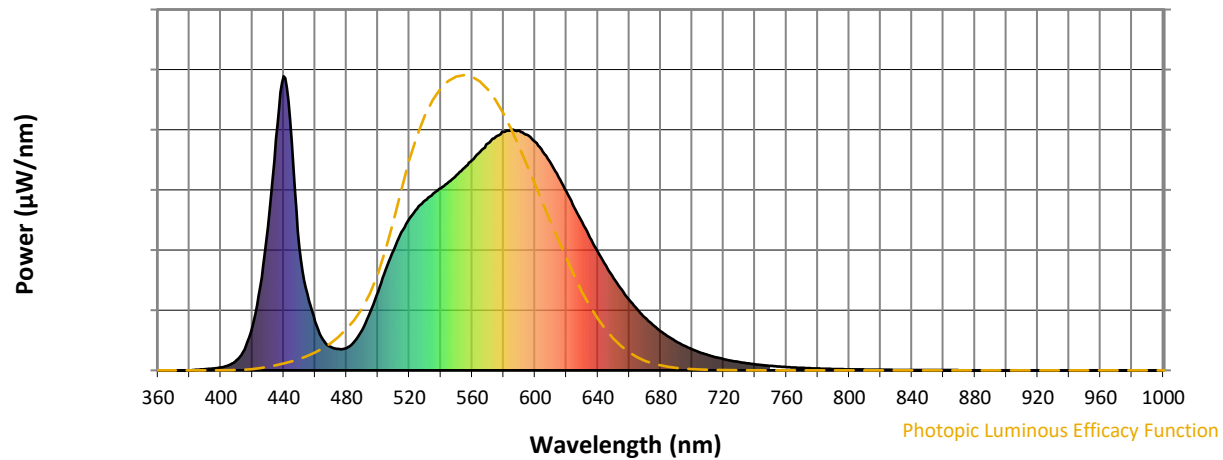
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-1

Photopic Flux vs. Wavelength

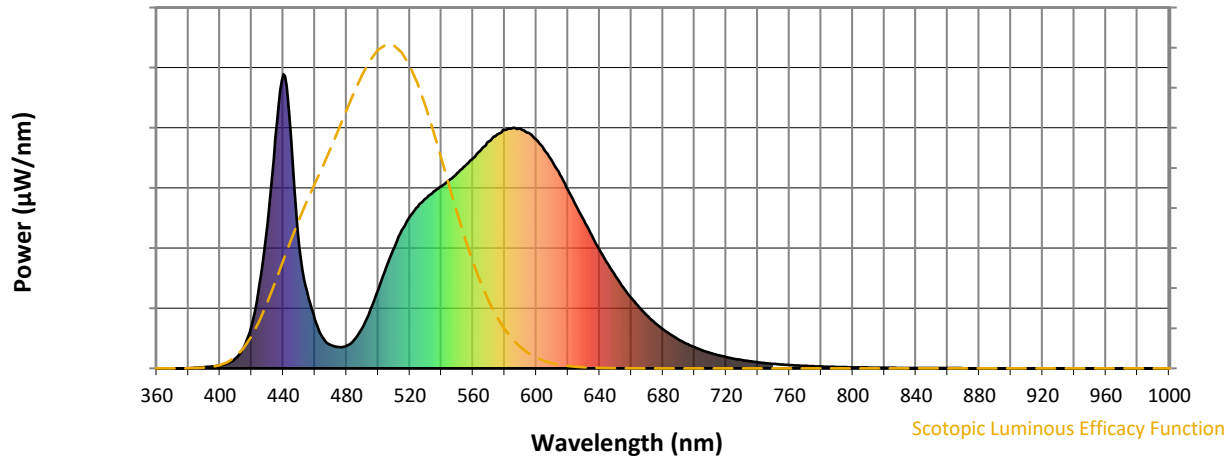


Photopic Lumens: NR

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Scotopic Flux vs. Wavelength



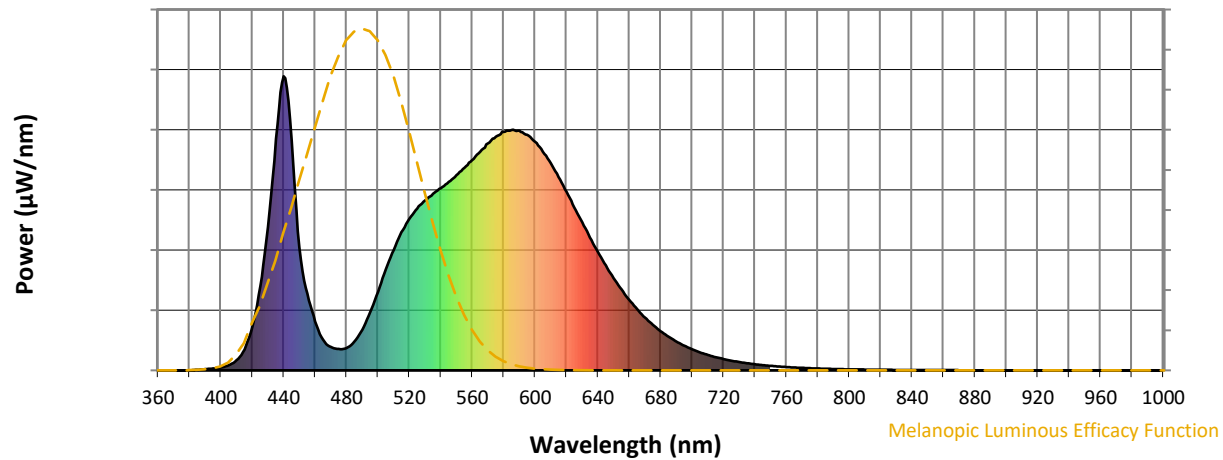
Scotopic Lumens: NR

S/P: 1.47

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

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Melanopic Flux vs. Wavelength

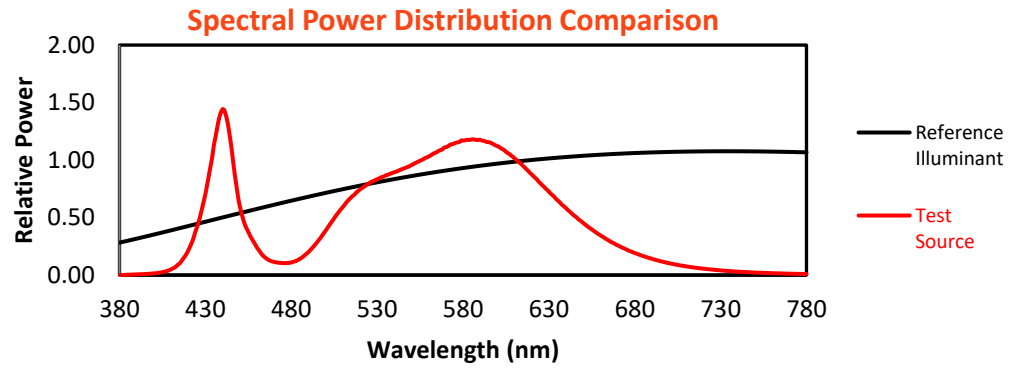
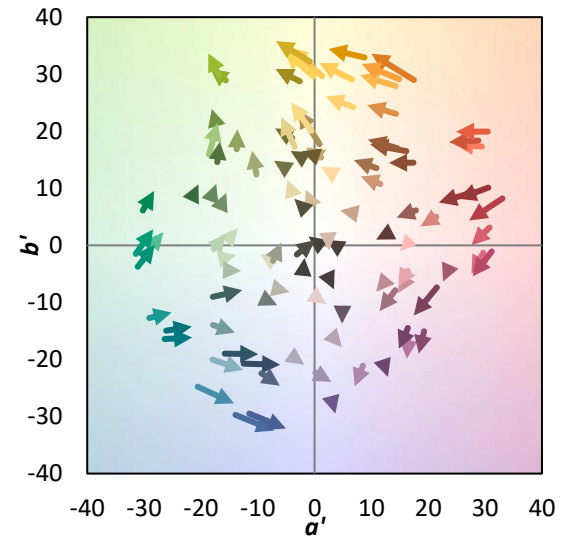
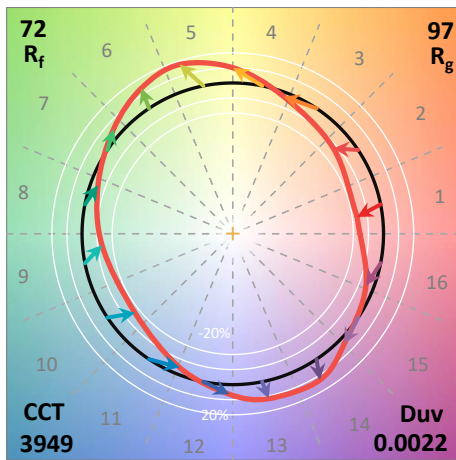
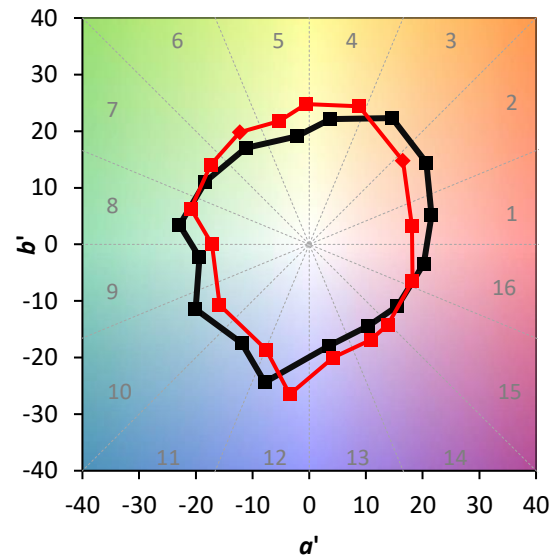
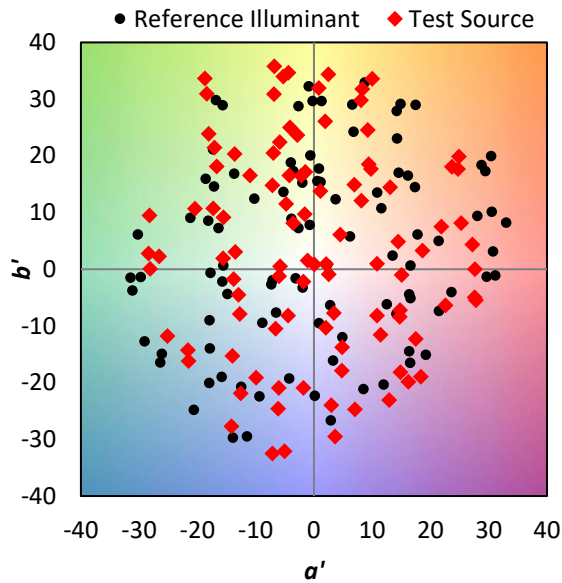


Melanopic Lumens: NR

M/P: 2.78

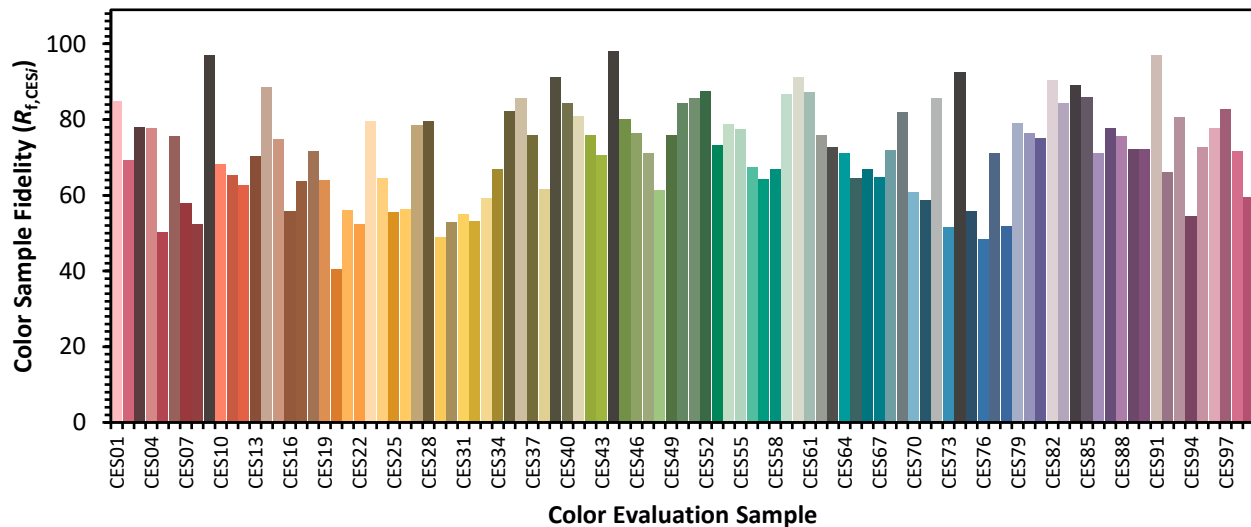
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

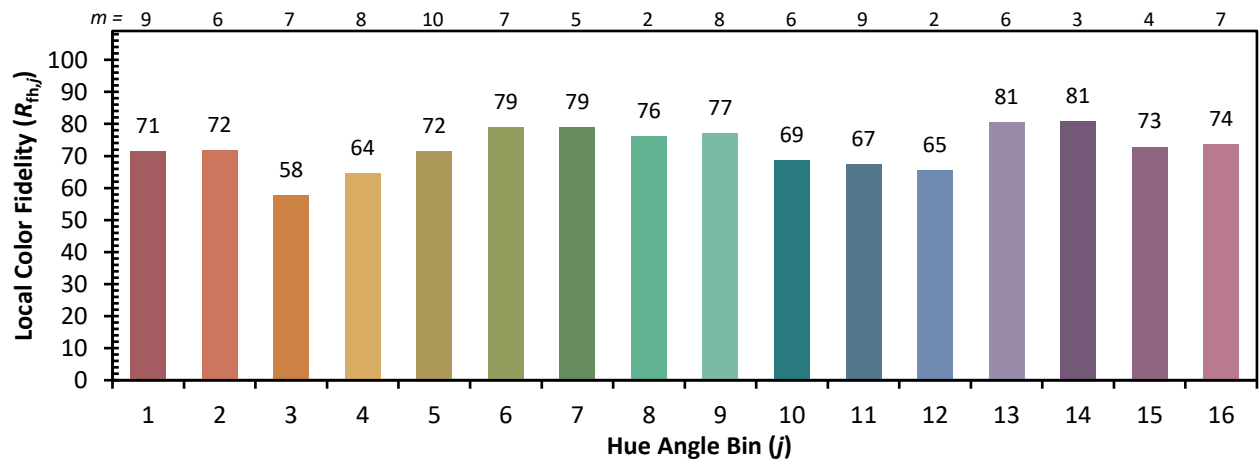
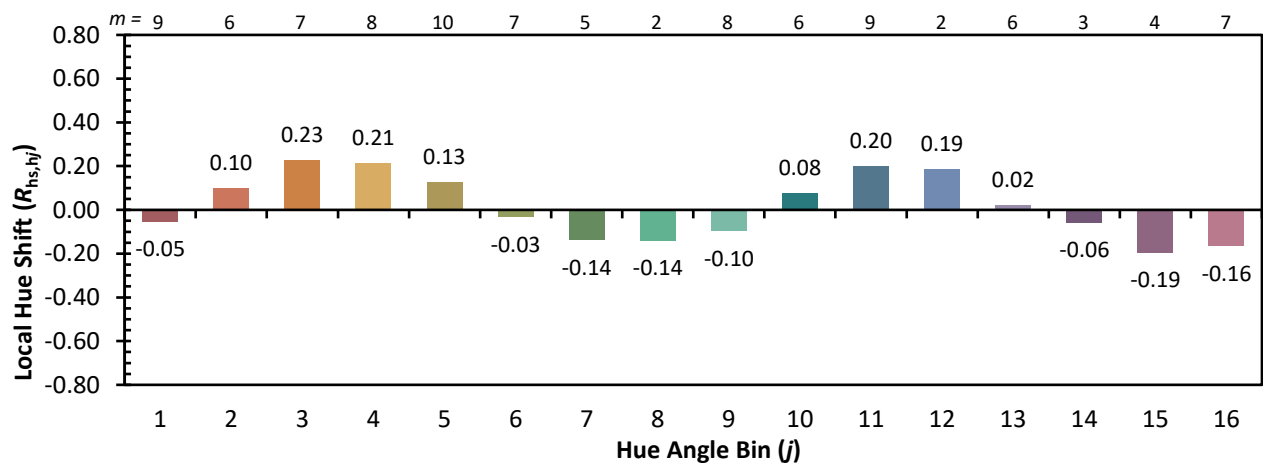
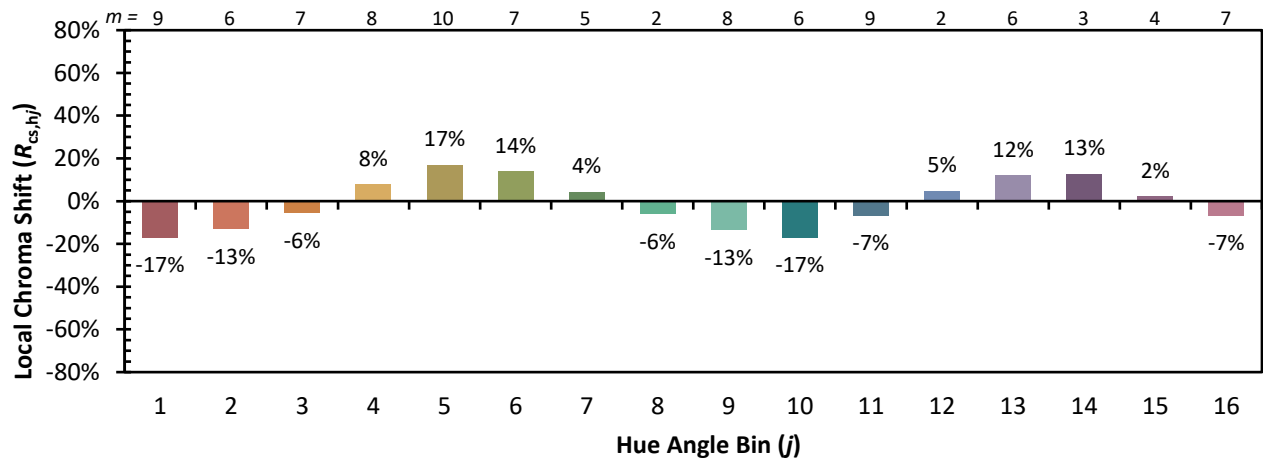
TM-30-18
Summary
 $R_f = 71.8$
 $R_g = 96.5$
 CIE $R_a = 70.7$
 $R_g = -36.7$

Color Vector Graphics


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

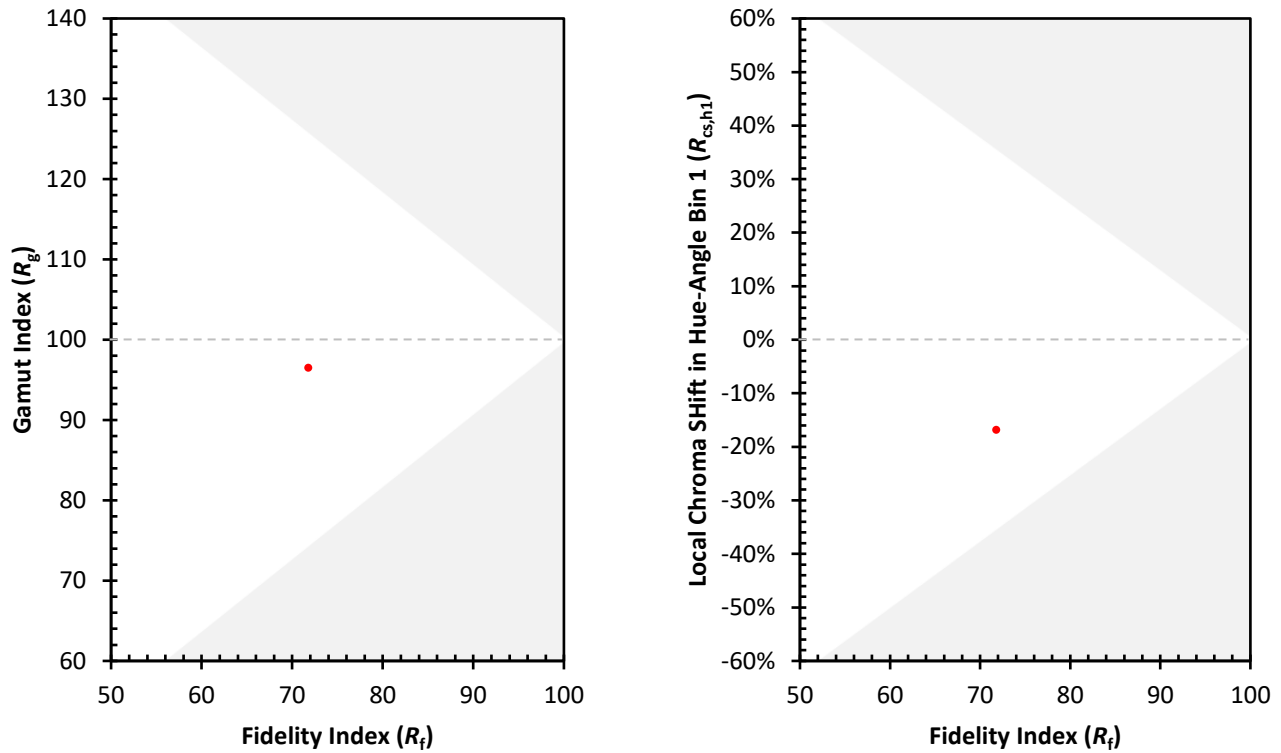
CES01 = 85	CES26 = 56	CES51 = 86	CES76 = 48
CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 64	CES82 = 90
CES08 = 39	CES33 = 59	CES58 = 67	CES83 = 84
CES09 = 29	CES34 = 67	CES59 = 87	CES84 = 89
CES10 = 74	CES35 = 82	CES60 = 91	CES85 = 86
CES11 = 57	CES36 = 86	CES61 = 87	CES86 = 71
CES12 = 63	CES37 = 76	CES62 = 76	CES87 = 78
CES13 = 42	CES38 = 62	CES63 = 73	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 71	CES89 = 72
CES15 = 71	CES40 = 84	CES65 = 64	CES90 = 72
CES16 = 46	CES41 = 81	CES66 = 67	CES91 = 97
CES17 = 49	CES42 = 76	CES67 = 65	CES92 = 66
CES18 = 56	CES43 = 71	CES68 = 72	CES93 = 81
CES19 = 72	CES44 = 98	CES69 = 82	CES94 = 55
CES20 = 65	CES45 = 80	CES70 = 61	CES95 = 73
CES21 = 86	CES46 = 76	CES71 = 59	CES96 = 78
CES22 = 78	CES47 = 71	CES72 = 86	CES97 = 83
CES23 = 92	CES48 = 61	CES73 = 52	CES98 = 72
CES24 = 91	CES49 = 76	CES74 = 93	CES99 = 60
CES25 = 72	CES50 = 84	CES75 = 56	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)