

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: P1049955

Luminaire Tested: **GALN-SA7C-930-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049955
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-930-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 7xLight Square PACKAGE
90CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (98) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24364.9 lumens
Efficiency: N/A
Efficacy: 73.8 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): 330
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

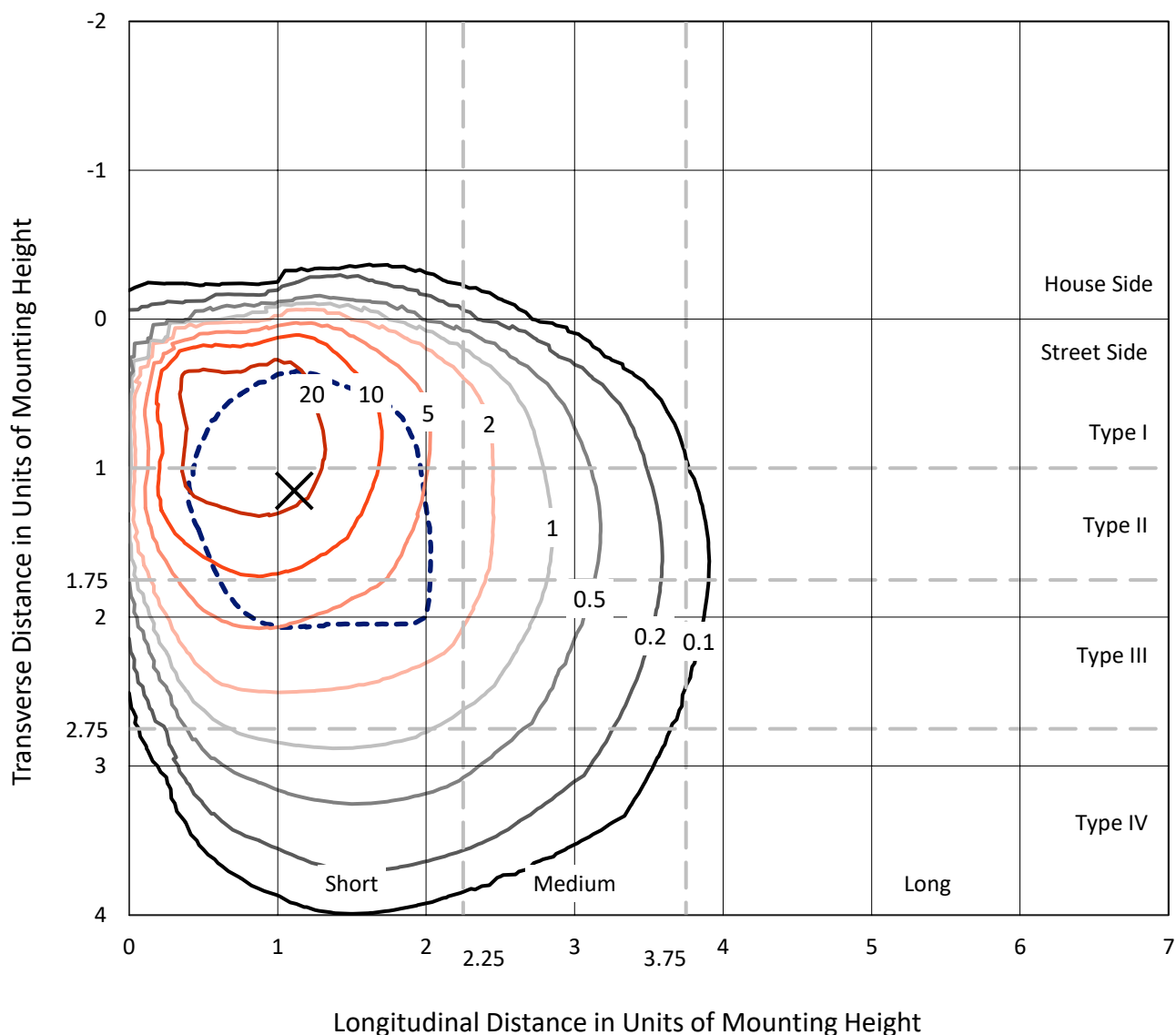
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

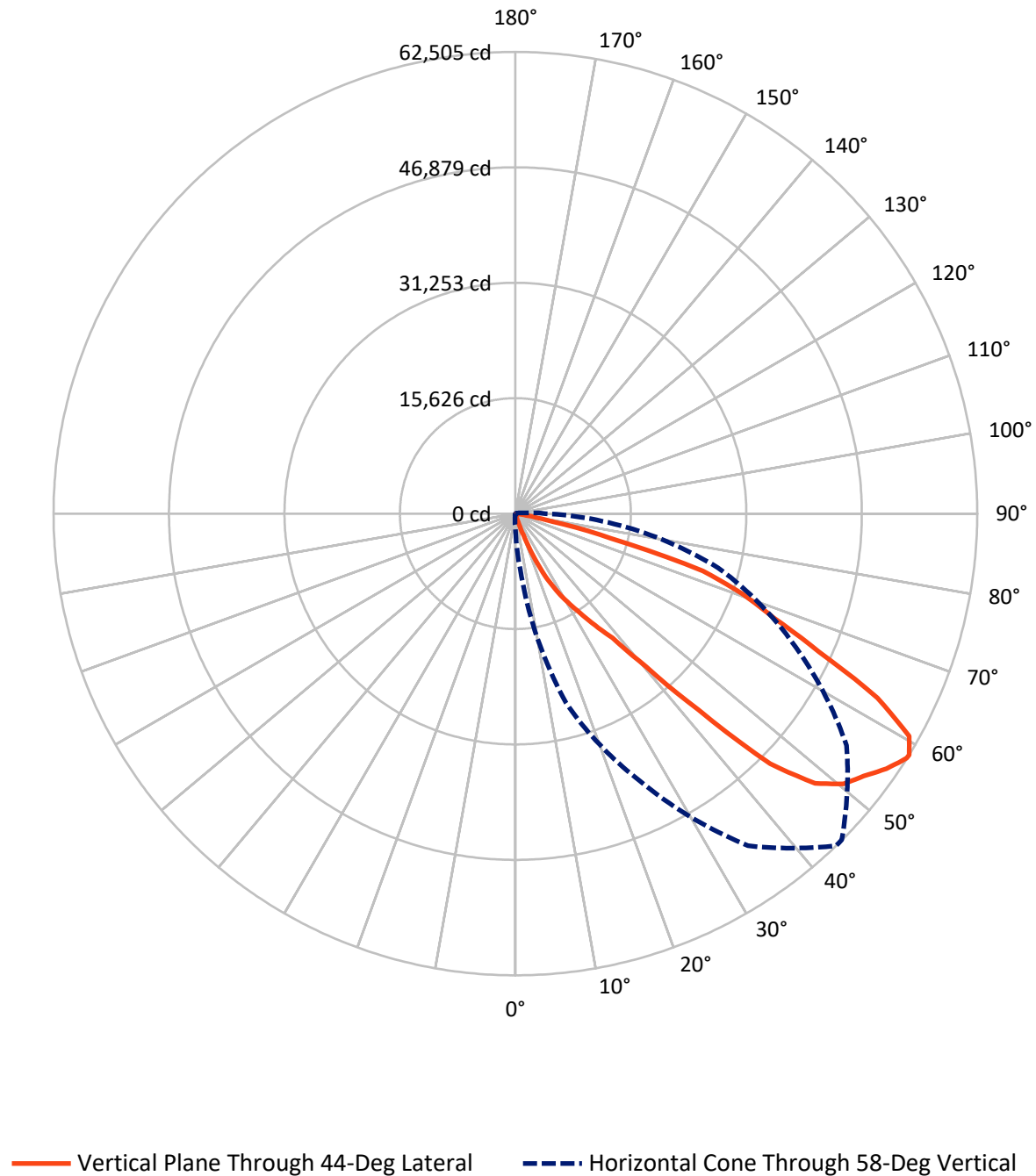


Based on 20 foot mounting height. Maximum calculated value = 42.4 fc

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	166.4	0.0	166.4
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	24198.5	0.0	24198.5
	% Fixture	99.3	0.0	99.3
Total	Lumens	24364.9	0.0	24364.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.5	0.0
10°-20°	53.4	0.2
20°-30°	577.2	2.4
30°-40°	1707.0	7.0
40°-50°	5087.8	20.9
50°-60°	8073.1	33.1
60°-70°	6733.9	27.6
70°-80°	2076.8	8.5
80°-90°	46.1	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°	24364.9	100.0
0°-180°	24364.9	100.0

Coefficient of Utilization



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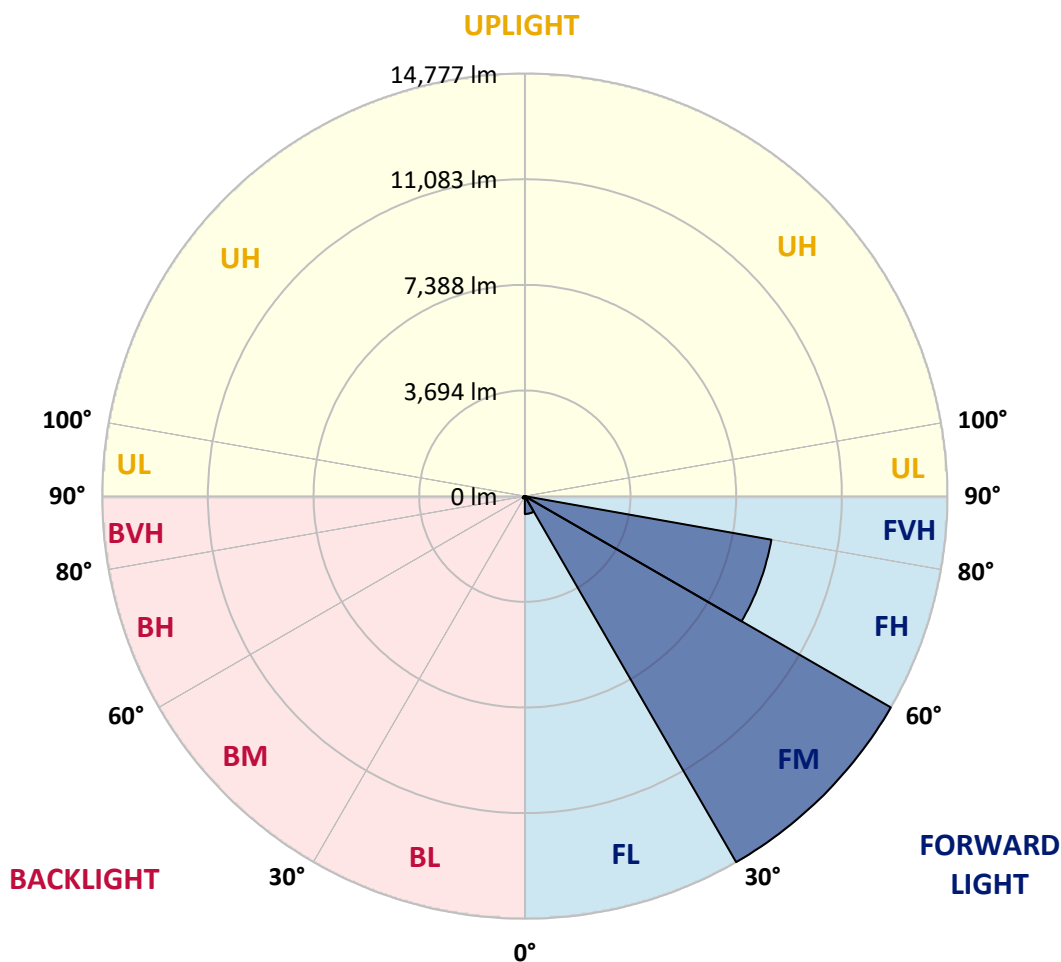
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	623.9	2.6			
FM	(30°-60°)	14776.8	60.6			
FH	(60°-80°)	8753.9	35.9			G4/12000
FVH	(80°-90°)	43.9	0.2			G1/100
BL	(0°-30°)	16.3	0.1	B0/110		
BM	(30°-60°)	91.1	0.4	B0/220		
BH	(60°-80°)	56.8	0.2	B0/110		G0/110
BVH	(80°-90°)	2.2	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	106.8	106.8	106.8	106.8	106.8	106.8	106.8	106.8	106.8	106.8
2.5°	138.0	138.0	132.5	125.2	117.8	110.4	108.6	104.9	103.1	101.2
5°	143.6	143.6	141.7	136.2	128.8	123.3	123.3	117.8	114.1	110.4
7.5°	147.2	149.1	152.8	150.9	147.2	141.7	141.7	138.0	132.5	123.3
10°	152.8	158.3	165.7	169.3	171.2	171.2	169.3	167.5	158.3	145.4
12.5°	158.3	169.3	187.7	206.1	217.2	231.9	230.1	226.4	202.5	174.9
15°	169.3	185.9	224.5	277.9	360.7	412.3	432.5	414.1	335.0	235.6
17.5°	182.2	209.8	325.8	581.6	953.4	1130.1	1236.9	1150.4	762.0	447.3
20°	195.1	255.8	605.5	1507.4	2473.7	3051.6	3211.8	2961.5	1901.3	852.2
22.5°	217.2	358.9	1227.7	3116.1	5330.3	6197.2	6361.0	5560.3	3590.9	1682.3
25°	263.2	520.9	2116.6	5078.1	7954.9	9418.1	9350.0	8300.9	5825.4	2687.2
27.5°	329.5	758.3	3200.7	7215.0	10469.1	11759.3	11913.9	10616.4	7765.3	3951.7
30°	425.2	1051.0	4364.0	8926.7	12484.5	13879.7	13905.4	12563.7	9501.0	5061.5
32.5°	517.2	1327.0	5381.8	10581.4	14470.5	16000.0	16114.1	14463.1	10796.7	6217.4
35°	587.1	1507.4	6412.5	12035.4	16473.0	18580.5	18573.1	16612.9	12331.8	7250.0
37.5°	592.7	1687.8	7345.7	13522.6	19009.3	21368.9	21602.7	19441.8	14187.0	8527.3
40°	579.8	1890.3	8527.3	15841.7	23579.4	27199.8	27405.9	24681.9	17908.7	10713.9
42.5°	594.5	2241.8	10445.2	20124.7	31168.0	36367.6	36765.2	33901.3	24750.0	15175.4
45°	671.8	2902.6	14463.1	27290.0	41985.0	48323.9	48191.4	44066.7	32710.4	21967.1
47.5°	927.6	4520.4	20419.2	34263.9	48898.2	54543.2	54657.3	49616.0	37356.0	27188.8
50°	1426.4	6916.8	25423.7	37950.5	51870.7	57534.1	57427.3	51602.0	39121.1	29760.0
52.5°	1855.3	8650.6	27934.2	39244.4	52251.7	59012.0	59004.7	52124.7	39395.4	29980.9
55°	1962.0	8781.3	27954.4	39314.4	53105.7	60946.5	61189.4	53411.2	39750.6	29016.4
57.5°	1919.7	7774.5	26787.5	39719.3	54626.0	62442.9	62455.7	54657.3	40652.5	28425.6
58°	1882.9	7616.2	26551.9	39949.4	54887.4	62505.4	62474.1	54714.3	41386.8	28403.5
60°	1676.8	6613.1	25633.5	40536.5	54499.0	61220.7	60928.1	53468.3	41278.2	28177.1
62.5°	1317.8	5159.1	24729.8	39857.3	50335.6	55001.5	55122.9	47337.4	37630.3	26857.5
65°	1049.1	3844.9	22845.0	34961.4	41449.4	45167.4	45620.1	38493.5	31409.2	22742.0
67.5°	835.6	2779.2	19163.9	27834.8	32798.8	37696.5	38026.0	32318.4	24334.0	17424.6
70°	679.2	1879.2	13228.1	20356.6	27052.6	32559.5	32579.8	26848.3	18162.7	11417.0
72.5°	601.9	1301.3	7678.8	14846.0	21935.8	26531.7	25996.1	21786.7	13958.8	6762.2
75°	520.9	863.2	3765.8	9075.8	13299.9	13390.1	13594.4	10106.5	6977.6	3215.5
77.5°	428.9	612.9	1483.5	2479.2	3988.5	5105.7	5295.3	4012.4	2320.9	791.4
80°	294.5	290.8	399.4	760.2	1141.1	1430.1	1334.4	1032.6	607.4	303.7
82.5°	127.0	138.0	180.4	217.2	176.7	171.2	163.8	104.9	81.0	62.6
85°	40.5	36.8	38.7	38.7	31.3	23.9	23.9	11.0	0.0	0.0
87.5°	20.2	16.6	16.6	14.7	9.2	3.7	1.8	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°
106.8	0°	106.8	106.8	106.8	106.8	106.8	106.8	106.8	106.8	106.8	106.8
99.4	2.5°	97.5	97.5	93.9	90.2	88.3	84.7	82.8	81.0	79.1	77.3
106.8	5°	103.1	101.2	95.7	90.2	84.7	79.1	75.5	71.8	68.1	66.3
117.8	7.5°	112.3	108.6	97.5	88.3	81.0	73.6	69.9	64.4	60.7	55.2
130.7	10°	123.3	116.0	101.2	90.2	79.1	69.9	64.4	58.9	53.4	46.0
149.1	12.5°	138.0	125.2	106.8	88.3	75.5	64.4	58.9	51.5	46.0	40.5
173.0	15°	150.9	134.4	108.6	88.3	71.8	58.9	51.5	44.2	38.7	31.3
217.2	17.5°	169.3	141.7	106.8	82.8	66.3	51.5	44.2	38.7	29.4	18.4
322.1	20°	200.6	147.2	103.1	77.3	57.1	42.3	33.1	25.8	12.9	3.7
484.1	22.5°	250.3	162.0	99.4	69.9	49.7	33.1	22.1	9.2	0.0	0.0
736.2	25°	346.0	187.7	99.4	66.3	44.2	23.9	7.4	0.0	0.0	0.0
1045.4	27.5°	460.1	222.7	99.4	57.1	35.0	12.9	0.0	0.0	0.0	0.0
1424.6	30°	576.1	261.4	99.4	49.7	27.6	1.8	0.0	0.0	0.0	0.0
1754.1	32.5°	686.5	294.5	101.2	42.3	18.4	0.0	0.0	0.0	0.0	0.0
2210.5	35°	798.8	300.0	99.4	36.8	11.0	0.0	0.0	0.0	0.0	0.0
2770.0	37.5°	942.4	289.0	93.9	33.1	5.5	0.0	0.0	0.0	0.0	0.0
3644.3	40°	1159.6	294.5	88.3	31.3	1.8	0.0	0.0	0.0	0.0	0.0
5203.3	42.5°	1560.8	318.4	81.0	31.3	0.0	0.0	0.0	0.0	0.0	0.0
8288.0	45°	2698.3	427.0	73.6	33.1	0.0	0.0	0.0	0.0	0.0	0.0
12442.2	47.5°	4463.4	767.5	71.8	33.1	0.0	0.0	0.0	0.0	0.0	0.0
14987.7	50°	5696.5	966.3	75.5	35.0	0.0	0.0	0.0	0.0	0.0	0.0
15306.1	52.5°	5687.3	1076.7	79.1	36.8	7.4	0.0	0.0	0.0	0.0	0.0
14107.9	55°	5056.0	1097.0	84.7	40.5	23.9	0.0	0.0	0.0	0.0	0.0
12123.8	57.5°	4225.9	1001.3	97.5	49.7	44.2	0.0	0.0	0.0	0.0	0.0
11812.7	58°	4078.7	957.1	101.2	51.5	47.9	0.0	0.0	0.0	0.0	0.0
10246.4	60°	3342.5	780.4	128.8	64.4	64.4	0.0	0.0	0.0	0.0	0.0
8400.3	62.5°	2308.1	681.0	147.2	82.8	66.3	0.0	0.0	0.0	0.0	0.0
6193.5	65°	1632.6	614.7	160.1	88.3	53.4	0.0	0.0	0.0	0.0	0.0
4400.8	67.5°	1220.3	566.9	176.7	90.2	27.6	0.0	0.0	0.0	0.0	0.0
2760.8	70°	935.0	531.9	217.2	95.7	7.4	0.0	0.0	0.0	0.0	0.0
1645.5	72.5°	762.0	491.4	263.2	99.4	0.0	0.0	0.0	0.0	0.0	0.0
986.5	75°	631.3	443.6	254.0	108.6	0.0	0.0	0.0	0.0	0.0	0.0
526.4	77.5°	419.6	344.2	231.9	108.6	0.0	0.0	0.0	0.0	0.0	0.0
187.7	80°	147.2	136.2	180.4	95.7	0.0	0.0	0.0	0.0	0.0	0.0
38.7	82.5°	22.1	18.4	25.8	33.1	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°
106.8	0°	106.8	106.8	106.8	106.8	106.8	106.8	106.8	106.8	106.8	106.8
75.5	2.5°	75.5	75.5	73.6	75.5	75.5	79.1	88.3	101.2	116.0	121.5
64.4	5°	62.6	60.7	58.9	58.9	58.9	64.4	71.8	86.5	103.1	110.4
53.4	7.5°	51.5	49.7	47.9	46.0	46.0	49.7	58.9	75.5	92.0	99.4
44.2	10°	42.3	38.7	36.8	35.0	35.0	38.7	47.9	64.4	82.8	90.2
36.8	12.5°	35.0	29.4	25.8	23.9	22.1	27.6	36.8	51.5	71.8	81.0
27.6	15°	23.9	18.4	12.9	11.0	9.2	14.7	23.9	40.5	60.7	71.8
14.7	17.5°	12.9	5.5	1.8	0.0	0.0	3.7	11.0	29.4	49.7	58.9
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7	36.8	46.0
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	22.1	31.3
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	16.6
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7
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	5.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	14.7
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°
106.8	0°	106.8	106.8	106.8	106.8	106.8	106.8	106.8	106.8	106.8	106.8
127.0	2.5°	130.7	128.8	125.2	121.5	121.5	121.5	127.0	132.5	138.0	138.0
114.1	5°	121.5	121.5	119.6	116.0	116.0	117.8	125.2	134.4	141.7	143.6
104.9	7.5°	112.3	116.0	112.3	110.4	112.3	114.1	121.5	132.5	143.6	147.2
97.5	10°	106.8	108.6	108.6	106.8	106.8	110.4	117.8	132.5	147.2	152.8
88.3	12.5°	99.4	103.1	101.2	101.2	101.2	104.9	114.1	130.7	150.9	158.3
79.1	15°	92.0	97.5	97.5	95.7	95.7	97.5	110.4	128.8	156.4	169.3
68.1	17.5°	84.7	90.2	92.0	88.3	88.3	92.0	104.9	128.8	160.1	182.2
55.2	20°	69.9	79.1	84.7	79.1	79.1	82.8	95.7	121.5	162.0	195.1
40.5	22.5°	55.2	64.4	71.8	69.9	69.9	71.8	88.3	116.0	163.8	217.2
23.9	25°	40.5	49.7	55.2	58.9	58.9	64.4	81.0	112.3	171.2	263.2
11.0	27.5°	23.9	35.0	42.3	46.0	47.9	55.2	75.5	108.6	184.1	329.5
0.0	30°	11.0	20.2	29.4	36.8	36.8	49.7	69.9	104.9	200.6	425.2
0.0	32.5°	0.0	9.2	14.7	25.8	27.6	40.5	64.4	101.2	224.5	517.2
0.0	35°	0.0	0.0	7.4	20.2	20.2	33.1	58.9	97.5	261.4	587.1
0.0	37.5°	0.0	0.0	0.0	14.7	16.6	29.4	57.1	95.7	268.7	592.7
0.0	40°	0.0	0.0	0.0	11.0	12.9	27.6	57.1	97.5	243.0	579.8
0.0	42.5°	0.0	0.0	0.0	7.4	9.2	27.6	57.1	101.2	219.0	594.5
0.0	45°	0.0	0.0	0.0	5.5	7.4	29.4	55.2	99.4	206.1	671.8
0.0	47.5°	0.0	0.0	0.0	7.4	11.0	29.4	53.4	97.5	208.0	927.6
0.0	50°	0.0	0.0	0.0	9.2	12.9	29.4	55.2	93.9	228.2	1426.4
0.0	52.5°	0.0	0.0	0.0	7.4	11.0	33.1	60.7	92.0	248.5	1855.3
0.0	55°	0.0	0.0	0.0	1.8	5.5	42.3	66.3	92.0	279.8	1962.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	47.9	75.5	97.5	331.3	1919.7
0.0	58°	0.0	0.0	0.0	0.0	0.0	47.9	77.3	97.5	335.0	1882.9
0.0	60°	0.0	0.0	0.0	0.0	0.0	47.9	84.7	108.6	360.7	1676.8
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	40.5	101.2	136.2	375.5	1317.8
0.0	65°	0.0	0.0	0.0	0.0	0.0	33.1	119.6	149.1	386.5	1049.1
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	31.3	123.3	150.9	392.0	835.6
0.0	70°	0.0	0.0	0.0	0.0	0.0	33.1	121.5	162.0	410.4	679.2
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	36.8	110.4	178.5	410.4	601.9
0.0	75°	0.0	0.0	0.0	0.0	0.0	38.7	103.1	200.6	373.6	520.9
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	36.8	101.2	233.8	333.1	428.9
0.0	80°	3.7	5.5	5.5	3.7	3.7	31.3	99.4	237.4	283.4	294.5
1.8	82.5°	11.0	14.7	12.9	9.2	9.2	27.6	88.3	198.8	147.2	127.0
11.0	85°	20.2	23.9	23.9	20.2	20.2	25.8	55.2	71.8	49.7	40.5
20.2	87.5°	27.6	31.3	31.3	27.6	27.6	25.8	23.9	22.1	20.2	20.2
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

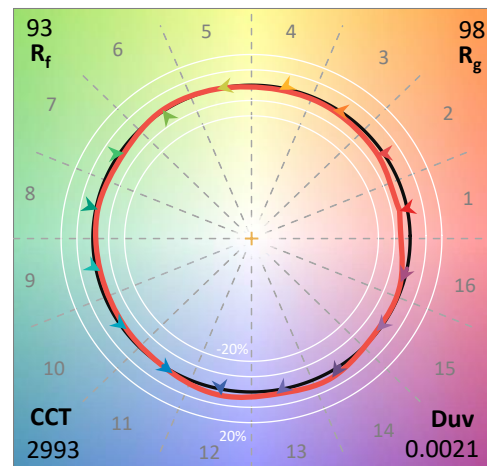
Test Information

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

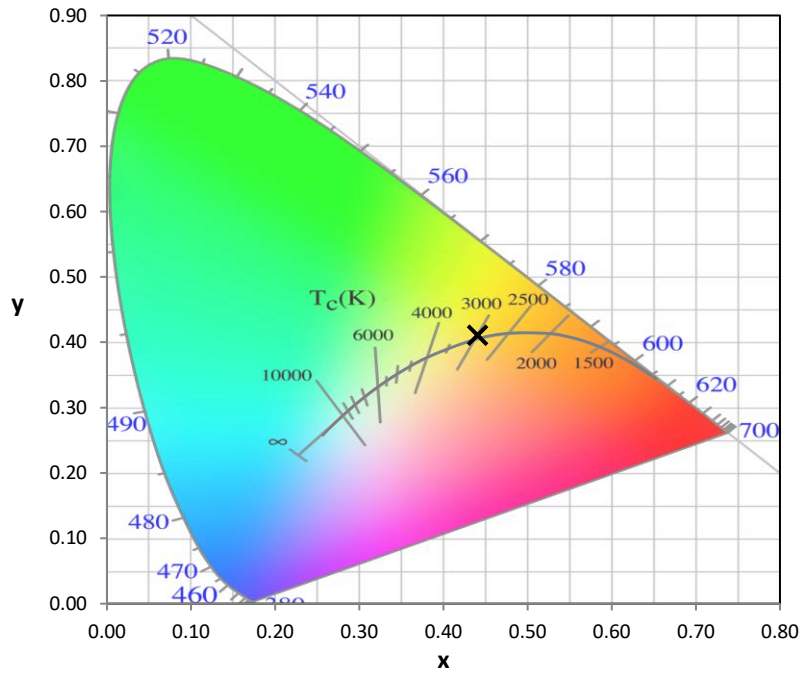
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-14

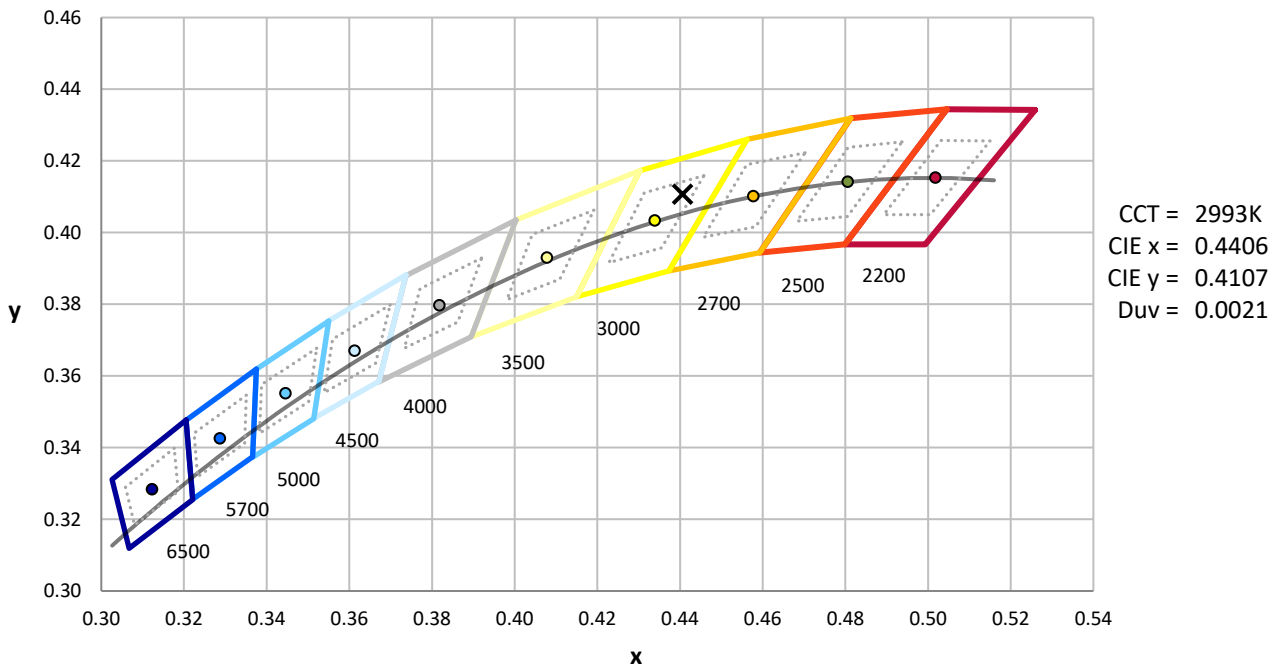
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-14

CIE 1931 Chromaticity Diagram



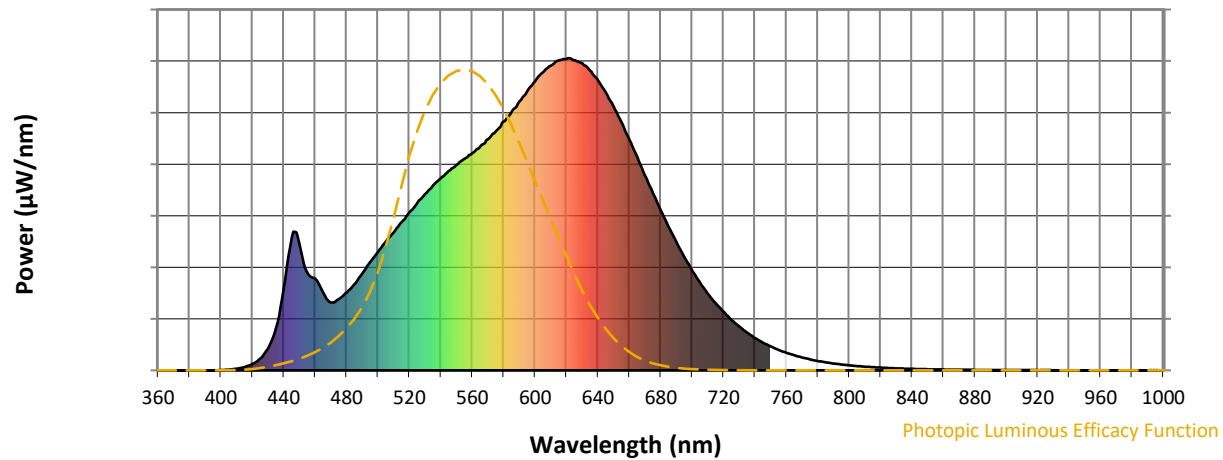
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-14

Photopic Flux vs. Wavelength

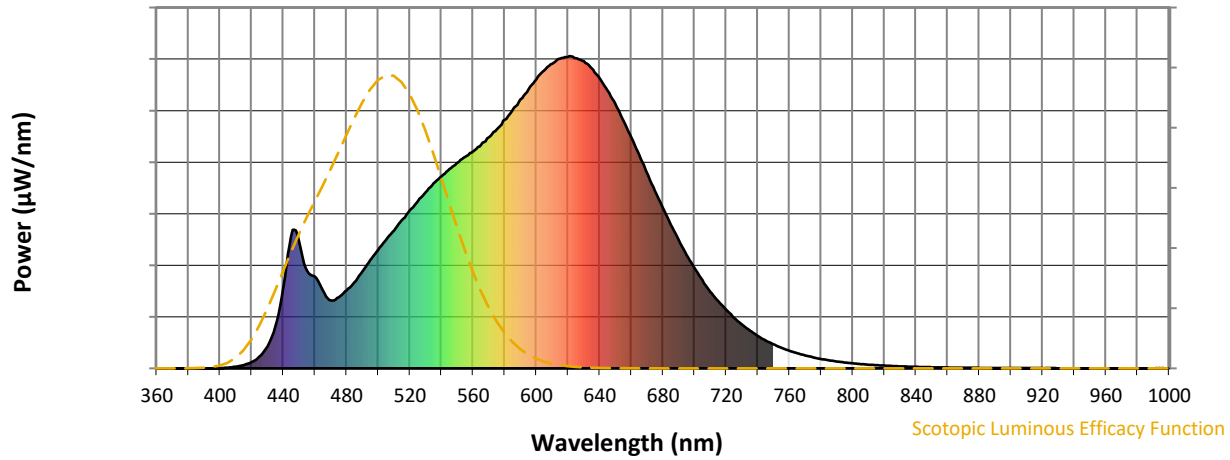


Photopic Lumens: NR

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



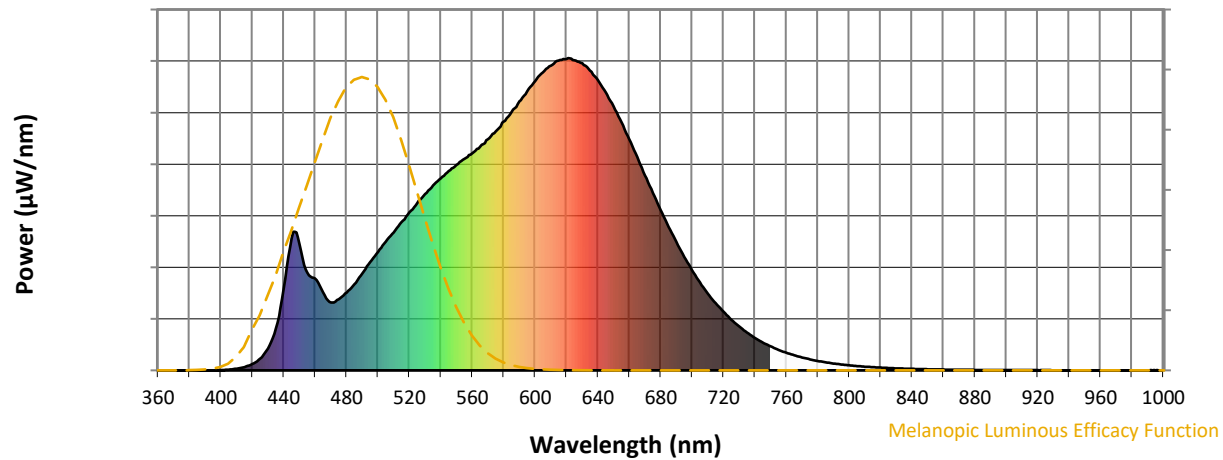
Scotopic Lumens: NR

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

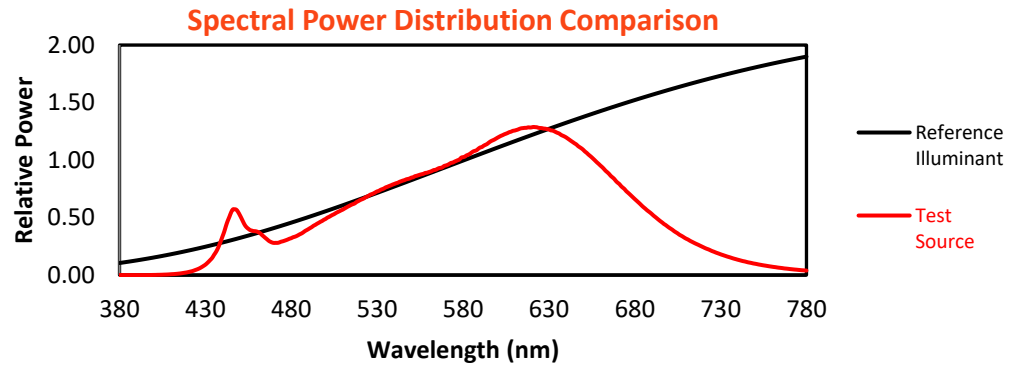
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	310	NR	620	998	NR	750	77	NR	880	2	NR
365	0	NR	495	347	NR	625	993	NR	755	66	NR	885	1	NR
370	0	NR	500	379	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

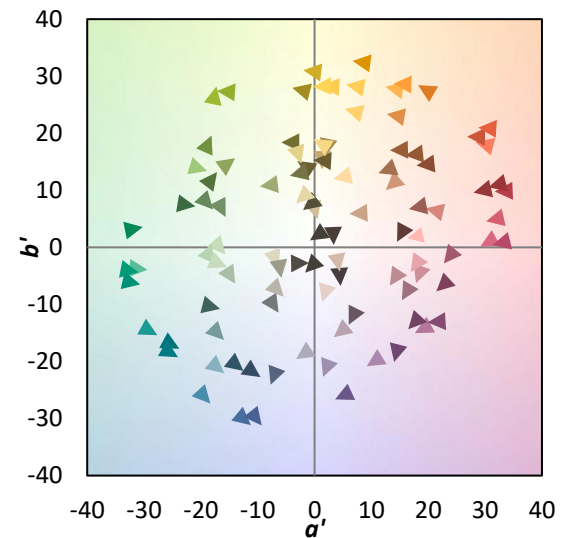
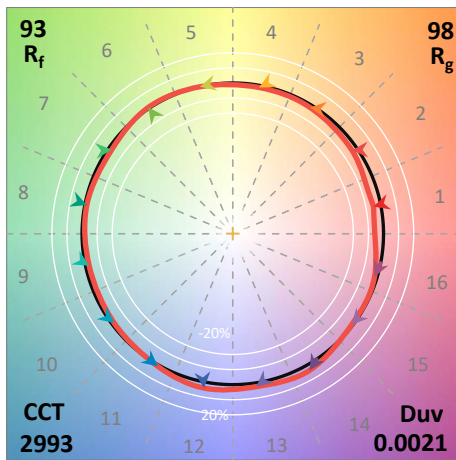
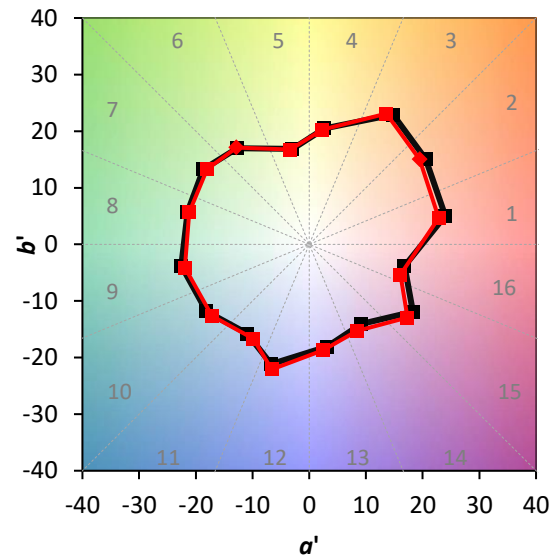
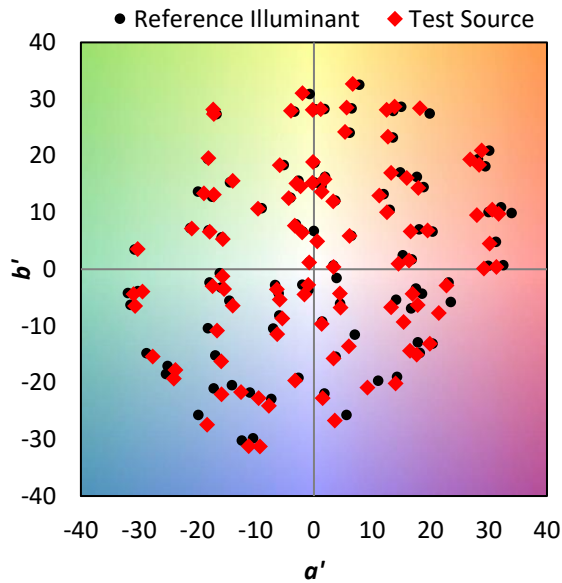
TM-30-18

Summary

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

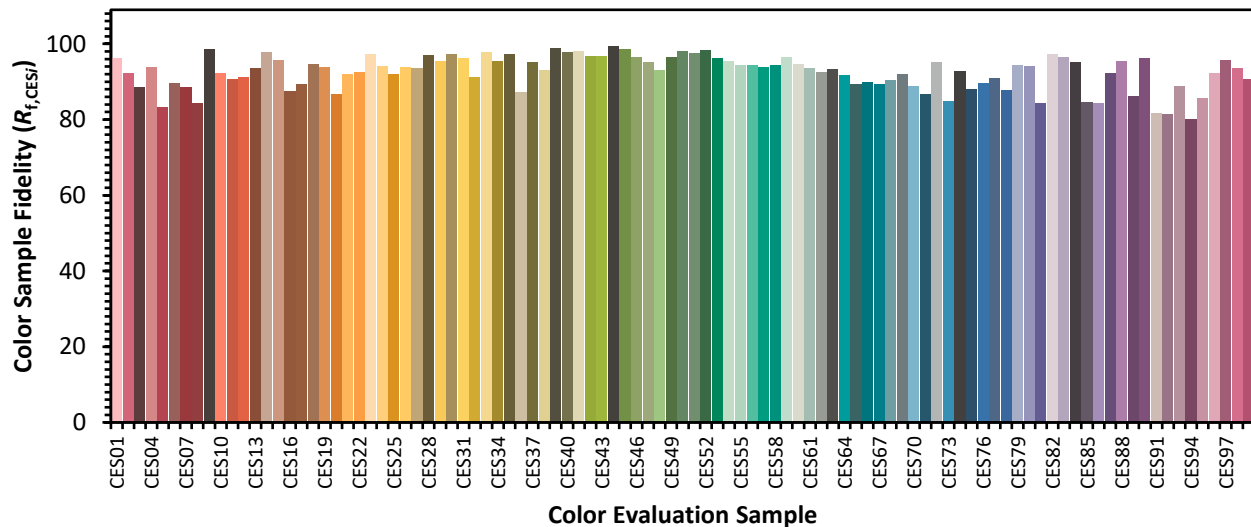


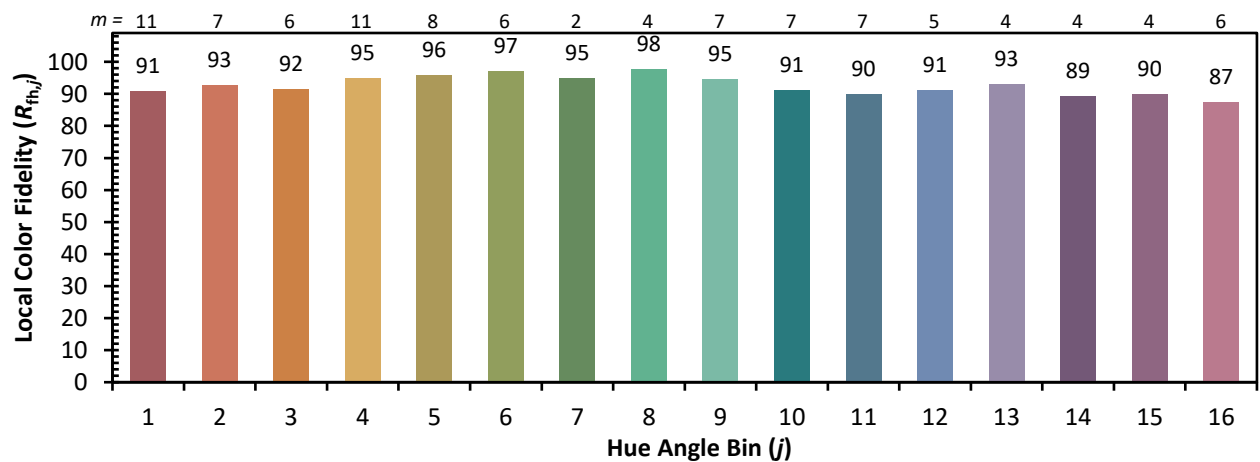
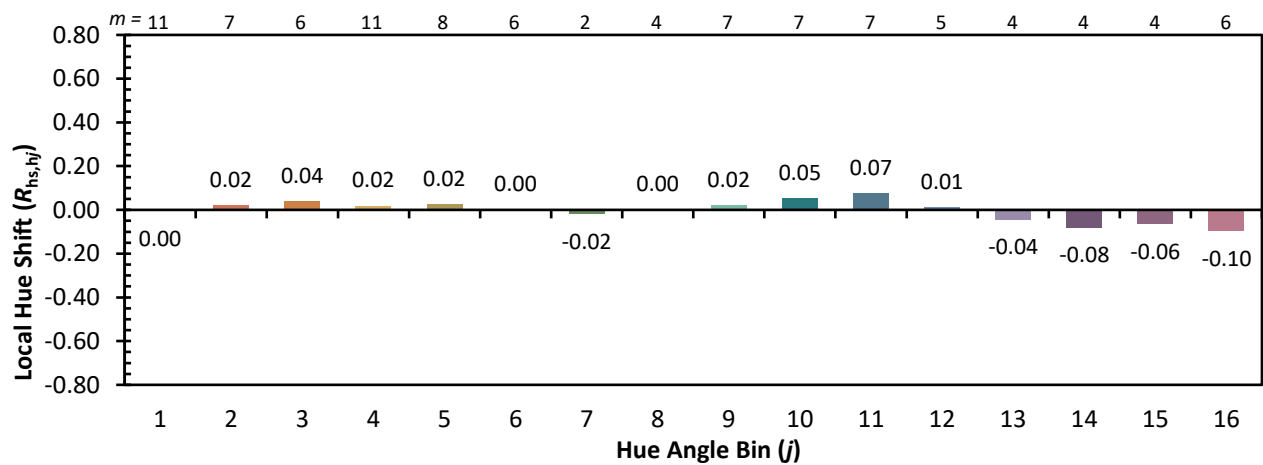
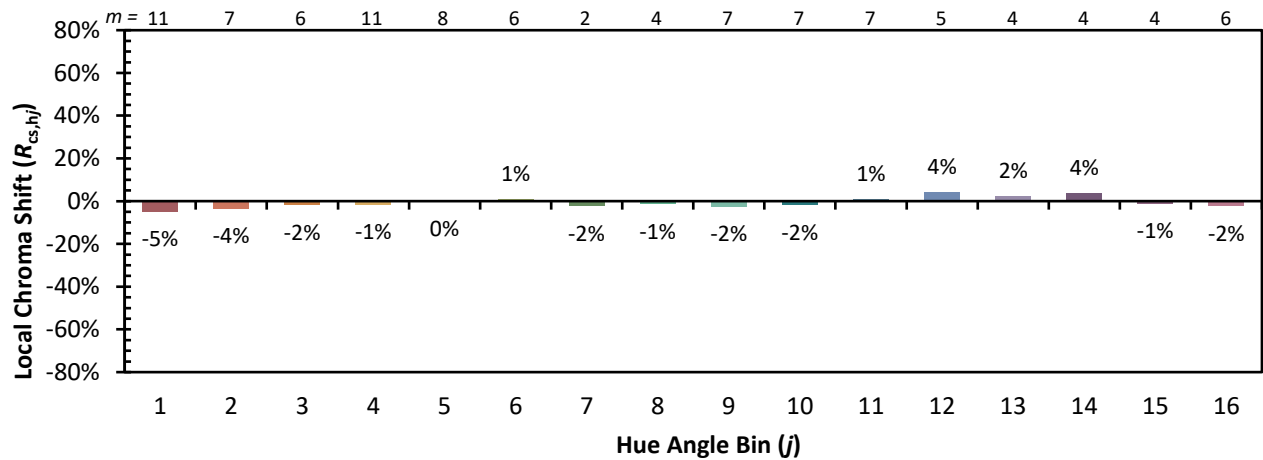
Color Vector Graphics



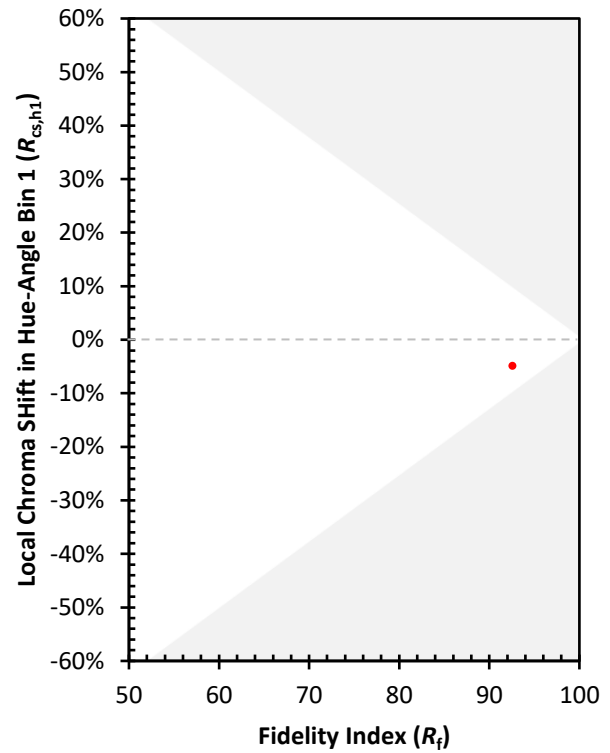
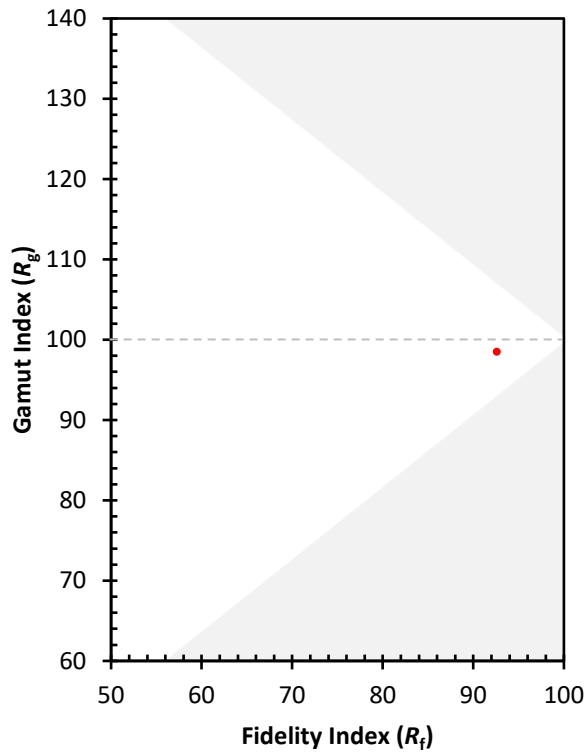
Individual Sample Fidelity Index ($R_{f,i}$)

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)