

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: P1049845

Luminaire Tested: **GALN-SA7A-840-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049845
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-840-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 7xLight Square PACKAGE
80CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (98) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20697.2 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

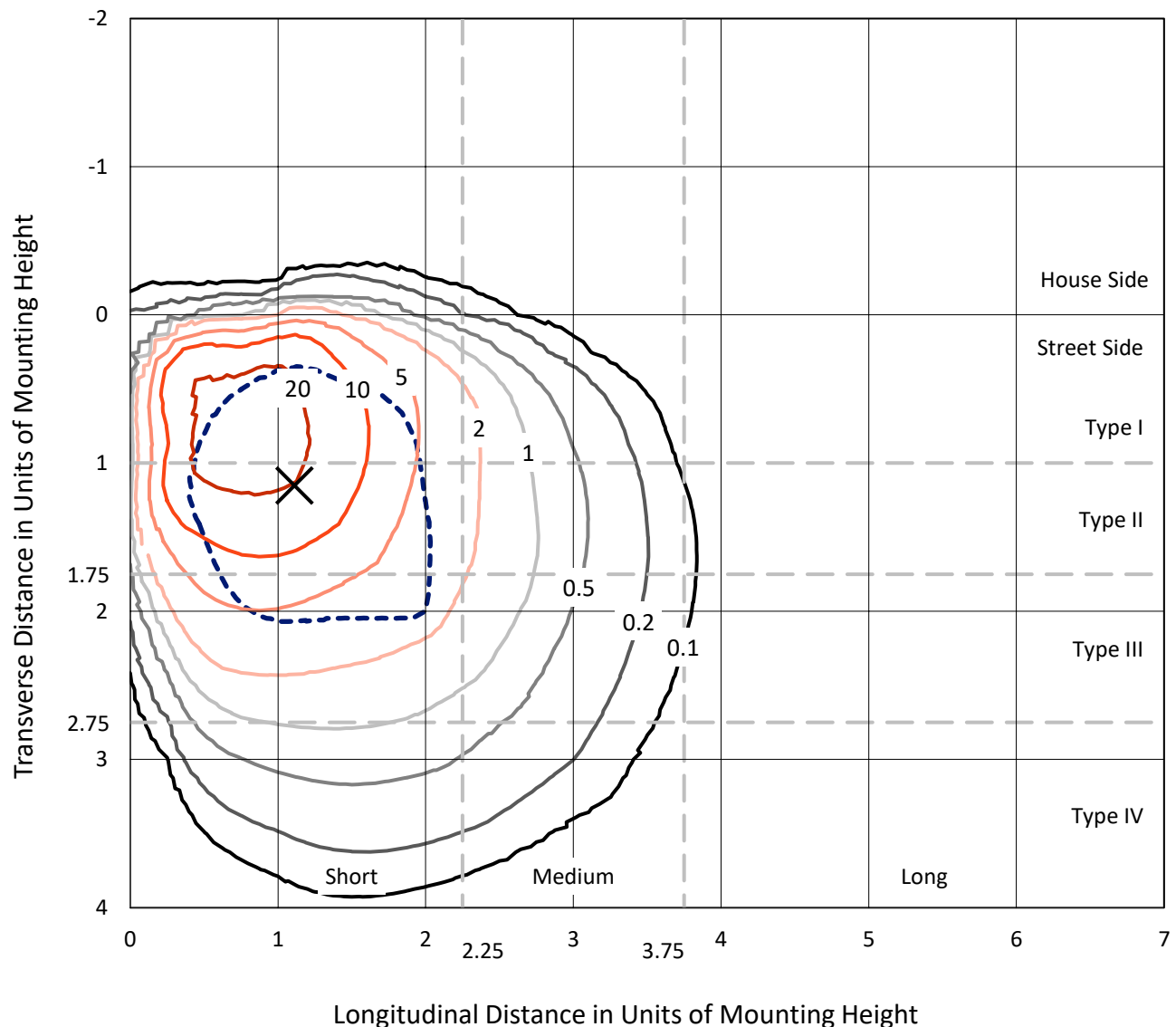
Input Watts (W): 193.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

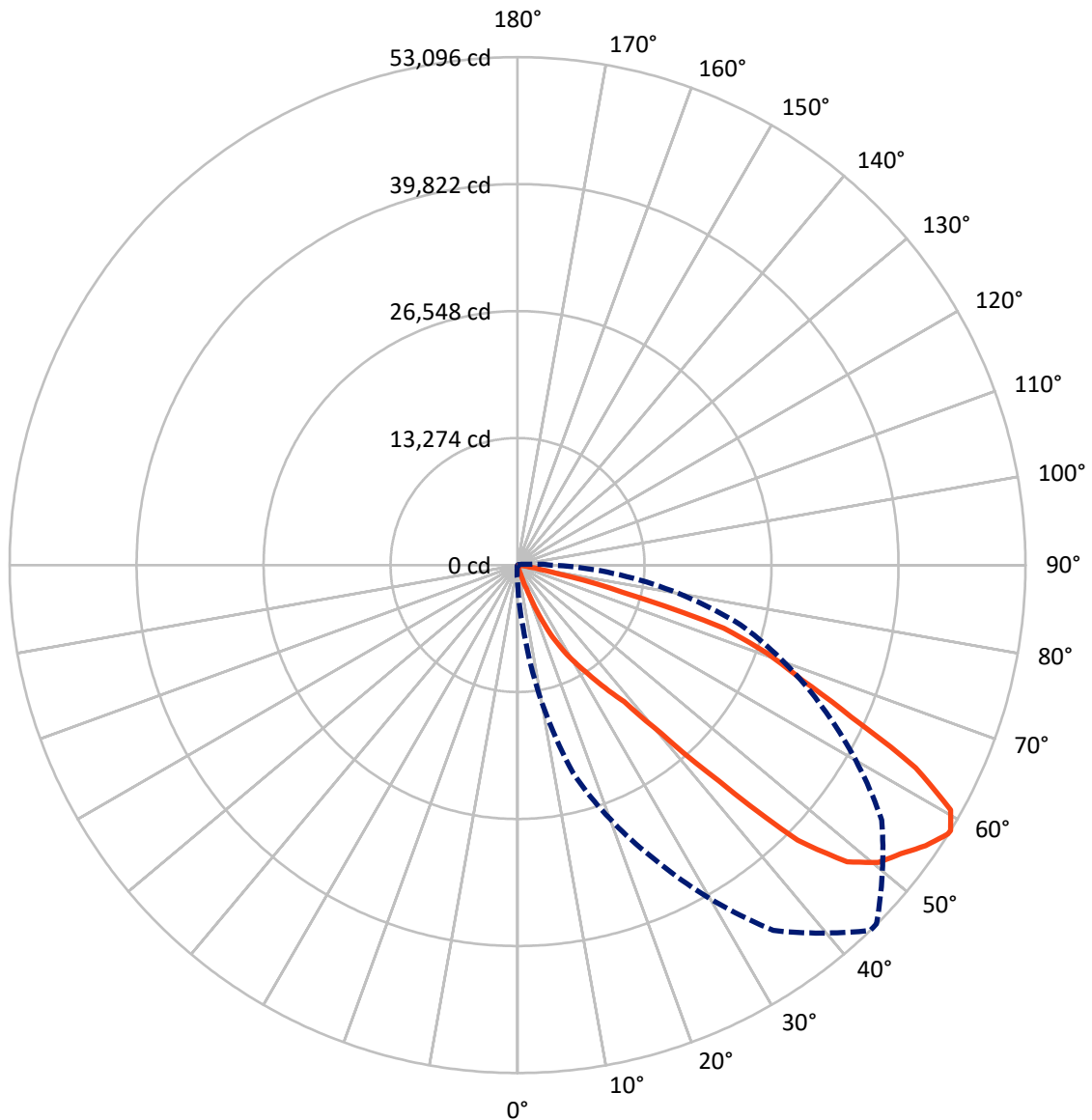
× Max cd
- - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 36 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	141.3	0.0	141.3
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	20555.8	0.0	20555.8
	% Fixture	99.3	0.0	99.3
Total	Lumens	20697.2	0.0	20697.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.1	0.0
10°-20°	45.4	0.2
20°-30°	490.3	2.4
30°-40°	1450.0	7.0
40°-50°	4321.9	20.9
50°-60°	6857.8	33.1
60°-70°	5720.2	27.6
70°-80°	1764.2	8.5
80°-90°	39.2	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°	20697.2	100.0
0°-180°	20697.2	100.0



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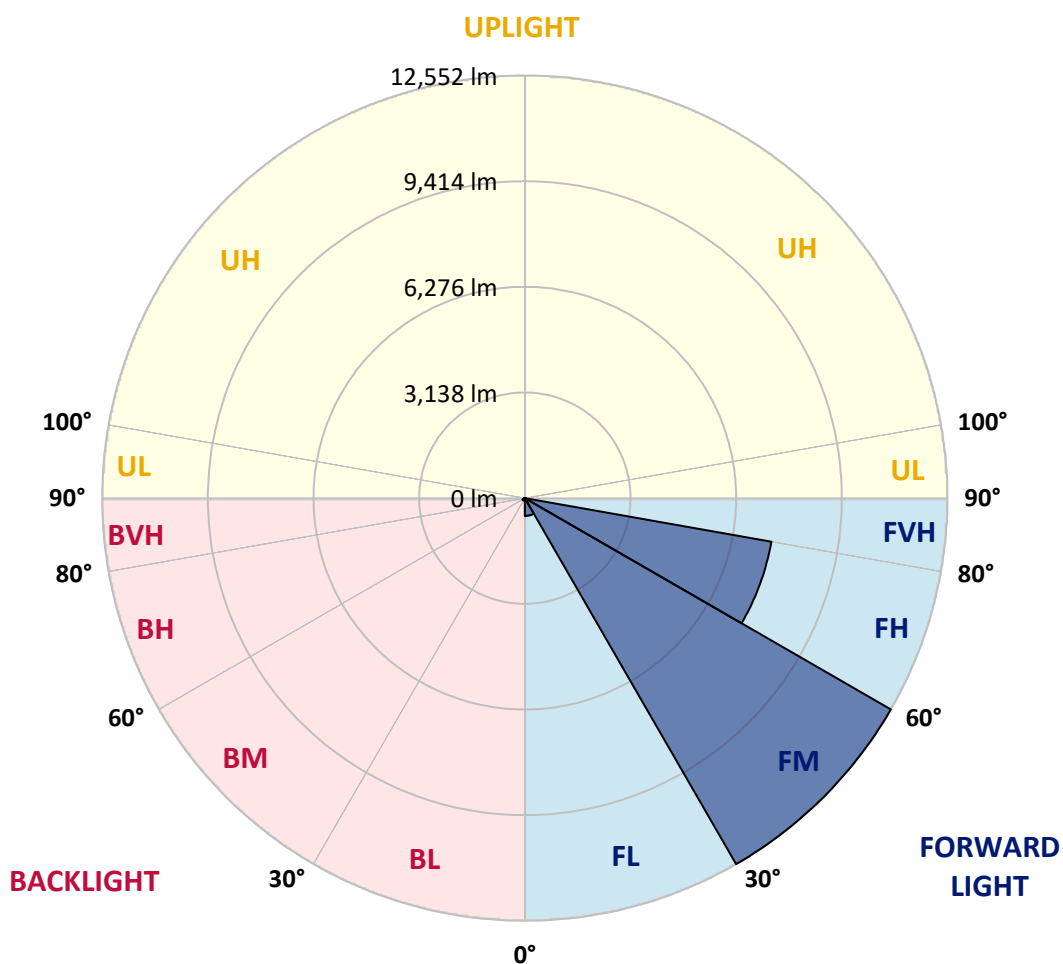
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	530.0	2.6			
FM	(30°-60°)	12552.4	60.6			
FH	(60°-80°)	7436.2	35.9			G3/7500
FVH	(80°-90°)	37.3	0.2			G1/100
BL	(0°-30°)	13.8	0.1	B0/110		
BM	(30°-60°)	77.3	0.4	B0/220		
BH	(60°-80°)	48.2	0.2	B0/110		G0/110
BVH	(80°-90°)	1.9	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°	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
2.5°	117.3	117.3	112.6	106.3	100.1	93.8	92.2	89.1	87.6	86.0
5°	122.0	122.0	120.4	115.7	109.4	104.8	104.8	100.1	96.9	93.8
7.5°	125.1	126.6	129.8	128.2	125.1	120.4	120.4	117.3	112.6	104.8
10°	129.8	134.5	140.7	143.8	145.4	145.4	143.8	142.3	134.5	123.5
12.5°	134.5	143.8	159.5	175.1	184.5	197.0	195.4	192.3	172.0	148.5
15°	143.8	157.9	190.7	236.1	306.4	350.2	367.4	351.8	284.6	200.1
17.5°	154.8	178.2	276.7	494.1	809.9	960.0	1050.7	977.2	647.3	379.9
20°	165.7	217.3	514.4	1280.5	2101.3	2592.3	2728.3	2515.7	1615.1	723.9
22.5°	184.5	304.9	1042.9	2647.0	4527.9	5264.3	5403.4	4723.3	3050.4	1429.0
25°	223.6	442.5	1798.0	4313.7	6757.4	8000.4	7942.6	7051.4	4948.5	2282.7
27.5°	279.9	644.2	2718.9	6128.9	8893.2	9989.2	10120.5	9018.2	6596.4	3356.8
30°	361.2	892.8	3707.0	7582.9	10605.2	11790.3	11812.2	10672.4	8070.8	4299.6
32.5°	439.3	1127.3	4571.7	8988.5	12292.2	13591.5	13688.4	12285.9	9171.5	5281.5
35°	498.8	1280.5	5447.2	10223.7	13993.3	15783.5	15777.2	14112.1	10475.4	6158.6
37.5°	503.4	1433.7	6239.9	11487.0	16147.8	18152.2	18350.7	16515.2	12051.4	7243.7
40°	492.5	1605.7	7243.7	13457.0	20029.9	23105.3	23280.4	20966.5	15212.8	9101.1
42.5°	505.0	1904.3	8872.8	17095.2	26476.2	30893.1	31230.8	28798.0	21024.3	12891.0
45°	570.7	2465.6	12285.9	23181.9	35664.9	41049.5	40937.0	37433.2	27786.4	18660.3
47.5°	788.0	3839.9	17345.4	29106.0	41537.4	46332.6	46429.5	42147.1	31732.7	23095.9
50°	1211.7	5875.6	21596.5	32237.7	44062.4	48873.3	48782.6	43834.1	33232.1	25280.1
52.5°	1576.0	7348.4	23729.2	33336.8	44386.0	50128.8	50122.5	44278.2	33465.0	25467.8
55°	1666.7	7459.4	23746.4	33396.2	45111.5	51772.0	51978.4	45371.0	33766.8	24648.5
57.5°	1630.7	6604.2	22755.1	33740.2	46402.9	53043.1	53054.1	46429.5	34532.9	24146.6
58°	1599.5	6469.7	22555.0	33935.6	46625.0	53096.3	53069.7	46478.0	35156.7	24127.8
60°	1424.3	5617.6	21774.8	34434.4	46295.1	52004.9	51756.4	45419.5	35064.5	23935.5
62.5°	1119.5	4382.5	21007.1	33857.5	42758.4	46721.9	46825.1	40211.5	31965.6	22814.5
65°	891.2	3266.1	19406.1	29698.6	35209.9	38368.2	38752.8	32698.9	26681.0	19318.5
67.5°	709.8	2360.9	16279.1	23644.7	27861.5	32021.9	32301.8	27453.4	20671.0	14801.6
70°	576.9	1596.3	11236.8	17292.2	22980.2	27658.2	27675.4	22806.7	15428.6	9698.4
72.5°	511.3	1105.4	6522.9	12611.1	18633.7	22537.8	22082.8	18507.1	11857.5	5744.3
75°	442.5	733.3	3198.9	7709.6	11297.8	11374.4	11548.0	8585.1	5927.2	2731.4
77.5°	364.3	520.6	1260.2	2106.0	3388.1	4337.1	4498.2	3408.4	1971.6	672.3
80°	250.2	247.0	339.3	645.7	969.4	1214.8	1133.5	877.1	516.0	258.0
82.5°	107.9	117.3	153.2	184.5	150.1	145.4	139.2	89.1	68.8	53.2
85°	34.4	31.3	32.8	32.8	26.6	20.3	20.3	9.4	0.0	0.0
87.5°	17.2	14.1	14.1	12.5	7.8	3.1	1.6	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°
90.7	0°	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
84.4	2.5°	82.9	82.9	79.7	76.6	75.0	71.9	70.4	68.8	67.2	65.7
90.7	5°	87.6	86.0	81.3	76.6	71.9	67.2	64.1	61.0	57.8	56.3
100.1	7.5°	95.4	92.2	82.9	75.0	68.8	62.5	59.4	54.7	51.6	46.9
111.0	10°	104.8	98.5	86.0	76.6	67.2	59.4	54.7	50.0	45.3	39.1
126.6	12.5°	117.3	106.3	90.7	75.0	64.1	54.7	50.0	43.8	39.1	34.4
147.0	15°	128.2	114.1	92.2	75.0	61.0	50.0	43.8	37.5	32.8	26.6
184.5	17.5°	143.8	120.4	90.7	70.4	56.3	43.8	37.5	32.8	25.0	15.6
273.6	20°	170.4	125.1	87.6	65.7	48.5	36.0	28.1	21.9	10.9	3.1
411.2	22.5°	212.6	137.6	84.4	59.4	42.2	28.1	18.8	7.8	0.0	0.0
625.4	25°	293.9	159.5	84.4	56.3	37.5	20.3	6.3	0.0	0.0	0.0
888.1	27.5°	390.9	189.2	84.4	48.5	29.7	10.9	0.0	0.0	0.0	0.0
1210.1	30°	489.4	222.0	84.4	42.2	23.5	1.6	0.0	0.0	0.0	0.0
1490.0	32.5°	583.2	250.2	86.0	36.0	15.6	0.0	0.0	0.0	0.0	0.0
1877.8	35°	678.6	254.8	84.4	31.3	9.4	0.0	0.0	0.0	0.0	0.0
2353.1	37.5°	800.5	245.5	79.7	28.1	4.7	0.0	0.0	0.0	0.0	0.0
3095.7	40°	985.0	250.2	75.0	26.6	1.6	0.0	0.0	0.0	0.0	0.0
4420.0	42.5°	1325.8	270.5	68.8	26.6	0.0	0.0	0.0	0.0	0.0	0.0
7040.4	45°	2292.1	362.7	62.5	28.1	0.0	0.0	0.0	0.0	0.0	0.0
10569.2	47.5°	3791.5	652.0	61.0	28.1	0.0	0.0	0.0	0.0	0.0	0.0
12731.5	50°	4839.0	820.8	64.1	29.7	0.0	0.0	0.0	0.0	0.0	0.0
13002.0	52.5°	4831.2	914.6	67.2	31.3	6.3	0.0	0.0	0.0	0.0	0.0
11984.2	55°	4294.9	931.8	71.9	34.4	20.3	0.0	0.0	0.0	0.0	0.0
10298.7	57.5°	3589.8	850.5	82.9	42.2	37.5	0.0	0.0	0.0	0.0	0.0
10034.5	58°	3464.7	813.0	86.0	43.8	40.7	0.0	0.0	0.0	0.0	0.0
8704.0	60°	2839.3	662.9	109.4	54.7	54.7	0.0	0.0	0.0	0.0	0.0
7135.8	62.5°	1960.6	578.5	125.1	70.4	56.3	0.0	0.0	0.0	0.0	0.0
5261.2	65°	1386.8	522.2	136.0	75.0	45.3	0.0	0.0	0.0	0.0	0.0
3738.3	67.5°	1036.6	481.6	150.1	76.6	23.5	0.0	0.0	0.0	0.0	0.0
2345.2	70°	794.3	451.8	184.5	81.3	6.3	0.0	0.0	0.0	0.0	0.0
1397.8	72.5°	647.3	417.5	223.6	84.4	0.0	0.0	0.0	0.0	0.0	0.0
838.0	75°	536.3	376.8	215.8	92.2	0.0	0.0	0.0	0.0	0.0	0.0
447.2	77.5°	356.5	292.4	197.0	92.2	0.0	0.0	0.0	0.0	0.0	0.0
159.5	80°	125.1	115.7	153.2	81.3	0.0	0.0	0.0	0.0	0.0	0.0
32.8	82.5°	18.8	15.6	21.9	28.1	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°
90.7	0°	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
64.1	2.5°	64.1	64.1	62.5	64.1	64.1	67.2	75.0	86.0	98.5	103.2
54.7	5°	53.2	51.6	50.0	50.0	50.0	54.7	61.0	73.5	87.6	93.8
45.3	7.5°	43.8	42.2	40.7	39.1	39.1	42.2	50.0	64.1	78.2	84.4
37.5	10°	36.0	32.8	31.3	29.7	29.7	32.8	40.7	54.7	70.4	76.6
31.3	12.5°	29.7	25.0	21.9	20.3	18.8	23.5	31.3	43.8	61.0	68.8
23.5	15°	20.3	15.6	10.9	9.4	7.8	12.5	20.3	34.4	51.6	61.0
12.5	17.5°	10.9	4.7	1.6	0.0	0.0	3.1	9.4	25.0	42.2	50.0
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	31.3	39.1
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	18.8	26.6
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	14.1
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
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	4.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	12.5
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°
90.7	0°	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
107.9	2.5°	111.0	109.4	106.3	103.2	103.2	103.2	107.9	112.6	117.3	117.3
96.9	5°	103.2	103.2	101.6	98.5	98.5	100.1	106.3	114.1	120.4	122.0
89.1	7.5°	95.4	98.5	95.4	93.8	95.4	96.9	103.2	112.6	122.0	125.1
82.9	10°	90.7	92.2	92.2	90.7	90.7	93.8	100.1	112.6	125.1	129.8
75.0	12.5°	84.4	87.6	86.0	86.0	86.0	89.1	96.9	111.0	128.2	134.5
67.2	15°	78.2	82.9	82.9	81.3	81.3	82.9	93.8	109.4	132.9	143.8
57.8	17.5°	71.9	76.6	78.2	75.0	75.0	78.2	89.1	109.4	136.0	154.8
46.9	20°	59.4	67.2	71.9	67.2	67.2	70.4	81.3	103.2	137.6	165.7
34.4	22.5°	46.9	54.7	61.0	59.4	59.4	61.0	75.0	98.5	139.2	184.5
20.3	25°	34.4	42.2	46.9	50.0	50.0	54.7	68.8	95.4	145.4	223.6
9.4	27.5°	20.3	29.7	36.0	39.1	40.7	46.9	64.1	92.2	156.3	279.9
0.0	30°	9.4	17.2	25.0	31.3	31.3	42.2	59.4	89.1	170.4	361.2
0.0	32.5°	0.0	7.8	12.5	21.9	23.5	34.4	54.7	86.0	190.7	439.3
0.0	35°	0.0	0.0	6.3	17.2	17.2	28.1	50.0	82.9	222.0	498.8
0.0	37.5°	0.0	0.0	0.0	12.5	14.1	25.0	48.5	81.3	228.3	503.4
0.0	40°	0.0	0.0	0.0	9.4	10.9	23.5	48.5	82.9	206.4	492.5
0.0	42.5°	0.0	0.0	0.0	6.3	7.8	23.5	48.5	86.0	186.1	505.0
0.0	45°	0.0	0.0	0.0	4.7	6.3	25.0	46.9	84.4	175.1	570.7
0.0	47.5°	0.0	0.0	0.0	6.3	9.4	25.0	45.3	82.9	176.7	788.0
0.0	50°	0.0	0.0	0.0	7.8	10.9	25.0	46.9	79.7	193.9	1211.7
0.0	52.5°	0.0	0.0	0.0	6.3	9.4	28.1	51.6	78.2	211.1	1576.0
0.0	55°	0.0	0.0	0.0	1.6	4.7	36.0	56.3	78.2	237.7	1666.7
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	40.7	64.1	82.9	281.4	1630.7
0.0	58°	0.0	0.0	0.0	0.0	0.0	40.7	65.7	82.9	284.6	1599.5
0.0	60°	0.0	0.0	0.0	0.0	0.0	40.7	71.9	92.2	306.4	1424.3
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	34.4	86.0	115.7	319.0	1119.5
0.0	65°	0.0	0.0	0.0	0.0	0.0	28.1	101.6	126.6	328.3	891.2
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	26.6	104.8	128.2	333.0	709.8
0.0	70°	0.0	0.0	0.0	0.0	0.0	28.1	103.2	137.6	348.7	576.9
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	31.3	93.8	151.7	348.7	511.3
0.0	75°	0.0	0.0	0.0	0.0	0.0	32.8	87.6	170.4	317.4	442.5
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	31.3	86.0	198.6	283.0	364.3
0.0	80°	3.1	4.7	4.7	3.1	3.1	26.6	84.4	201.7	240.8	250.2
1.6	82.5°	9.4	12.5	10.9	7.8	7.8	23.5	75.0	168.9	125.1	107.9
9.4	85°	17.2	20.3	20.3	17.2	17.2	21.9	46.9	61.0	42.2	34.4
17.2	87.5°	23.5	26.6	26.6	23.5	23.5	21.9	20.3	18.8	17.2	17.2
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: SP1-2407-184-11

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-840-U-5WQ

Data in this report applies to families of products including GSS-SB1A-840-U-5WQ

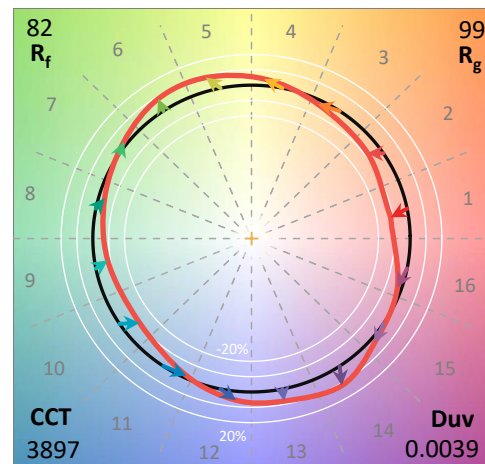
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-11
 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-840-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 4000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3897
 CIE u' : 0.2249
 CIE v' : 0.5084
 Duv: 0.0039
 CIE x: 0.3882
 CIE y: 0.3900
 CIE z: 0.2218
 Peak Wavelength (nm): 445
 Dominant Wavelength (nm): 577
 Purity: 33.54925
 R_f: 81.8
 R_g: 98.6

CRI (Ra): 80.2
 R1: 78.9
 R2: 83.5
 R3: 88.3
 R4: 82.1
 R5: 78.8
 R6: 78.4
 R7: 85.8
 R8: 65.8
 R9: 6.7
 R10: 61.9
 R11: 81.9
 R12: 58.9
 R13: 79.2
 R14: 93.2
 R15: 71.9



Test Conditions

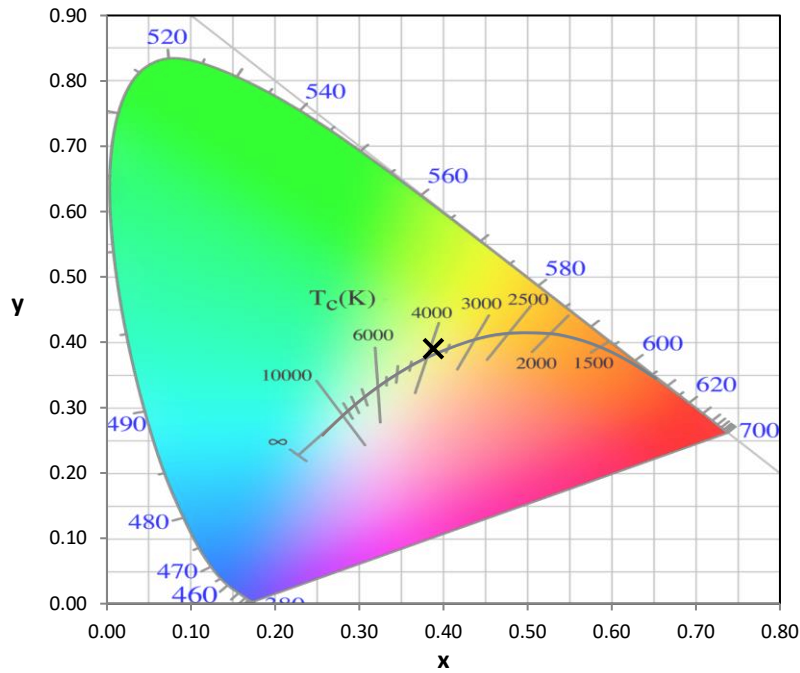
Stabilization Time: 24M
 Operation Time: 1H 24M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-11

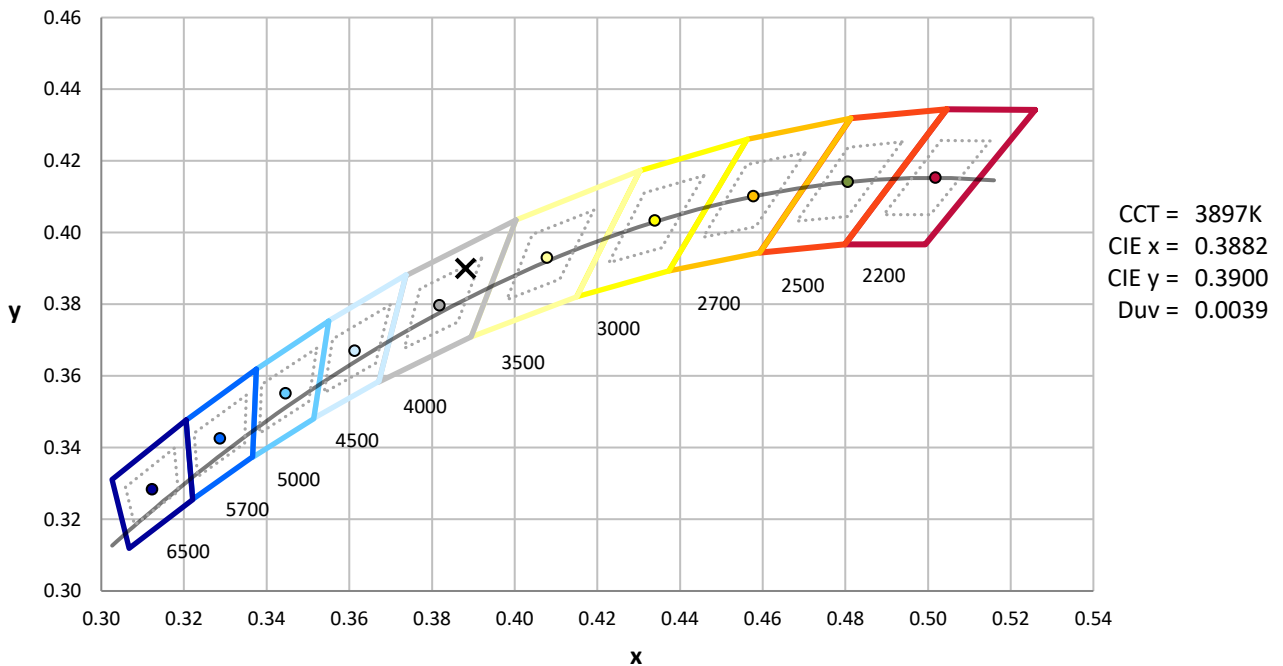
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-11

CIE 1931 Chromaticity Diagram



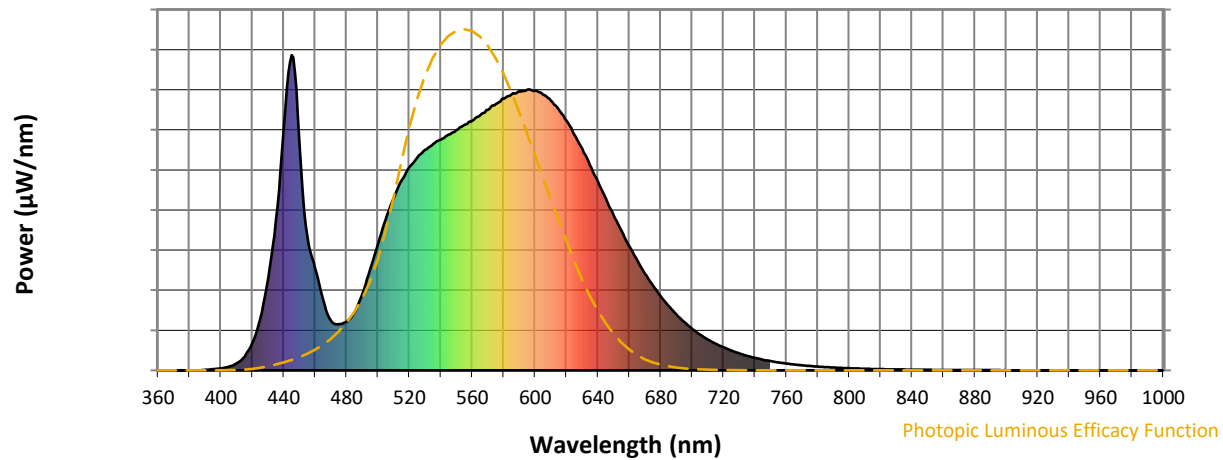
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-11

Photopic Flux vs. Wavelength

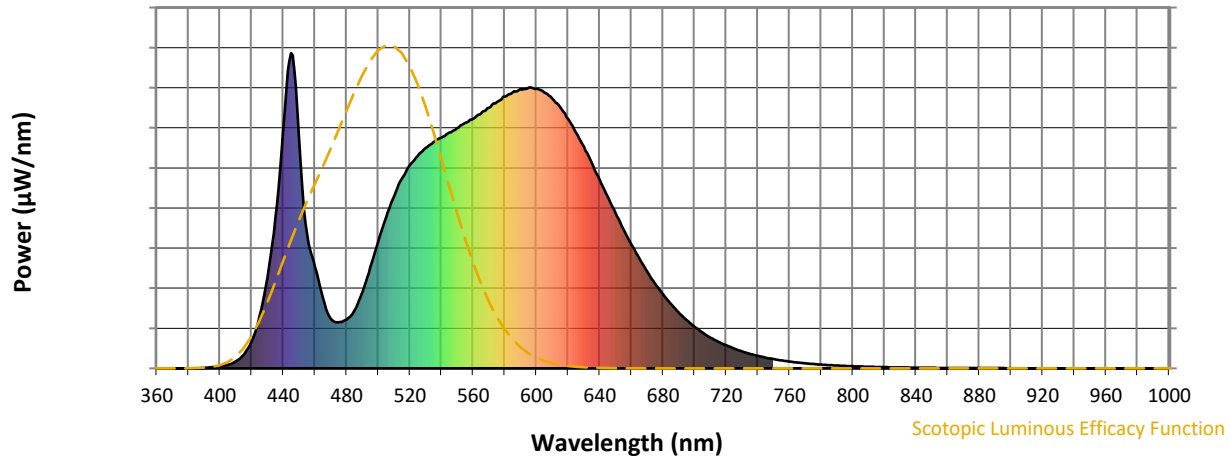


Photopic Lumens: NR

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

Scotopic Flux vs. Wavelength



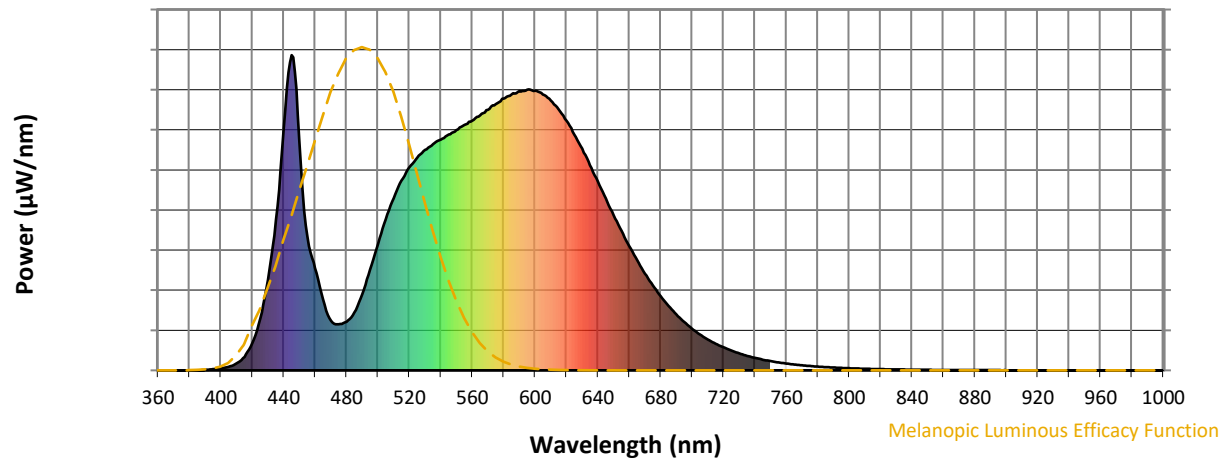
Scotopic Lumens: NR

S/P: 1.57

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.06

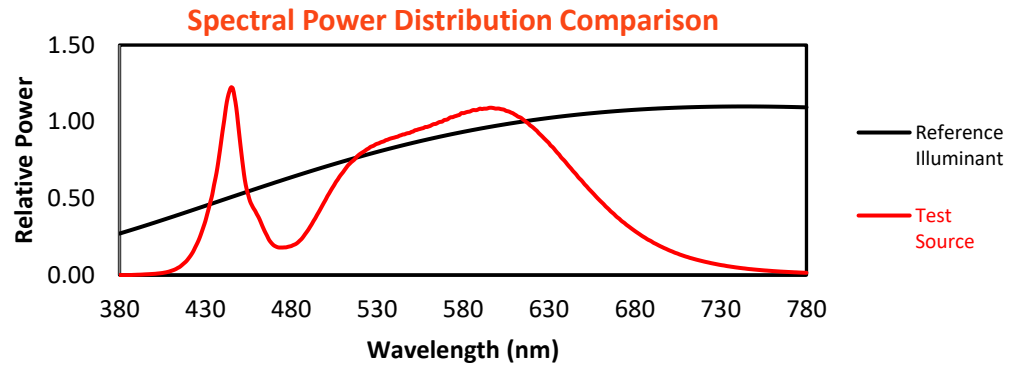
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

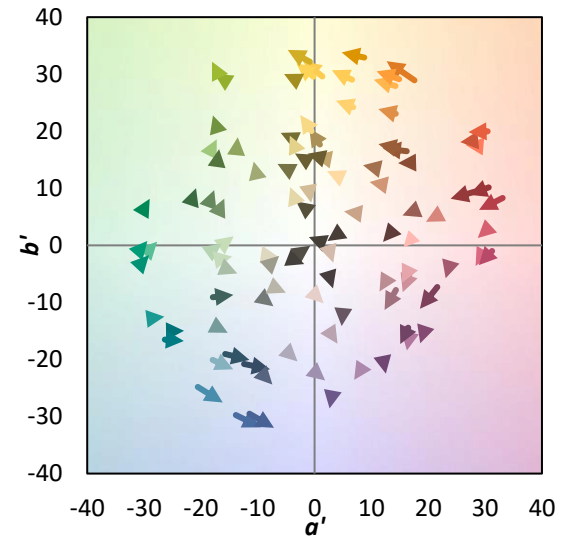
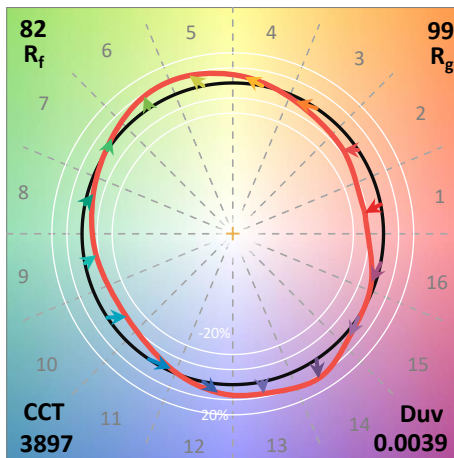
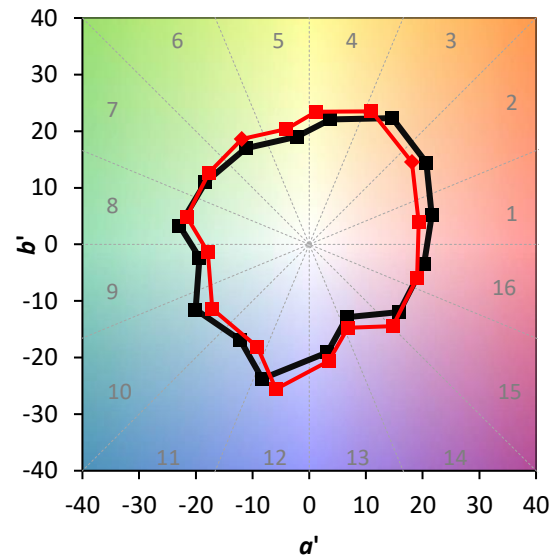
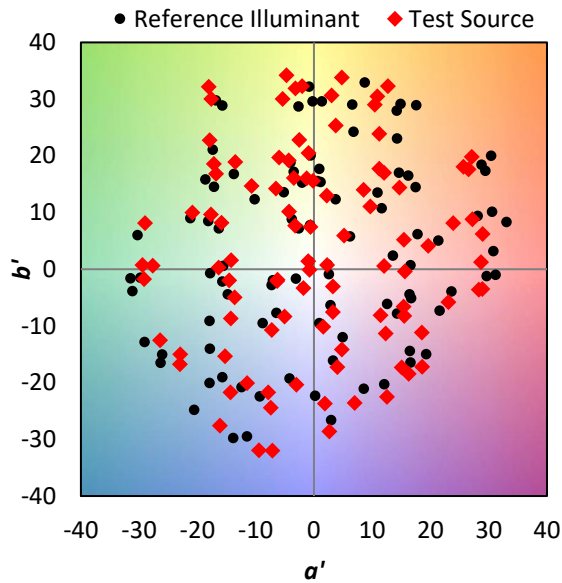
TM-30-18

Summary

$R_f = 81.8$
 $R_g = 98.6$
 $CIE R_a = 80.2$
 $R_9 = 6.7$

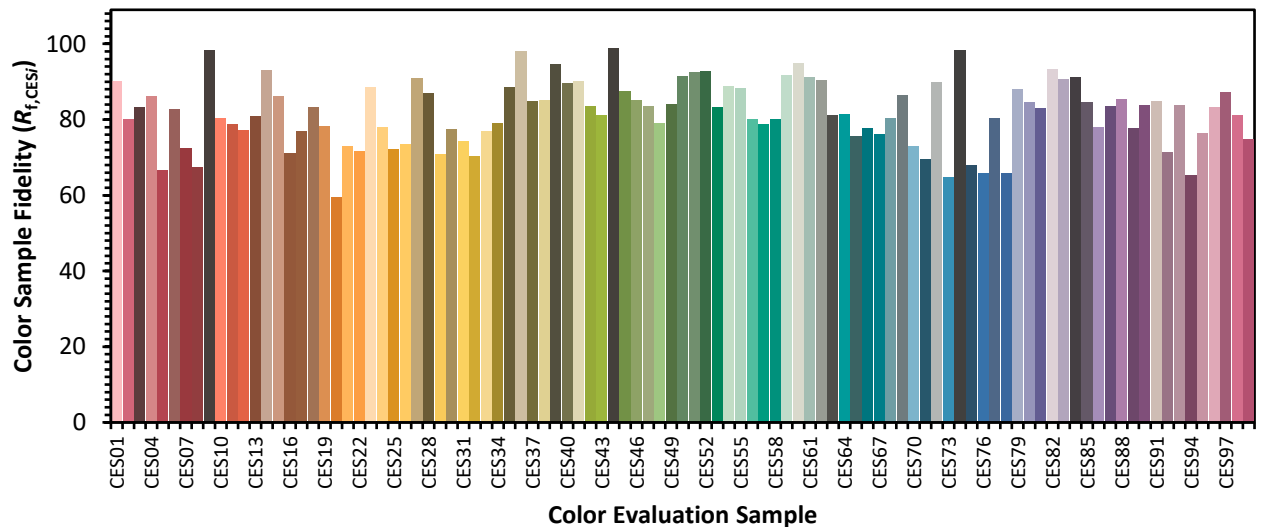


Color Vector Graphics

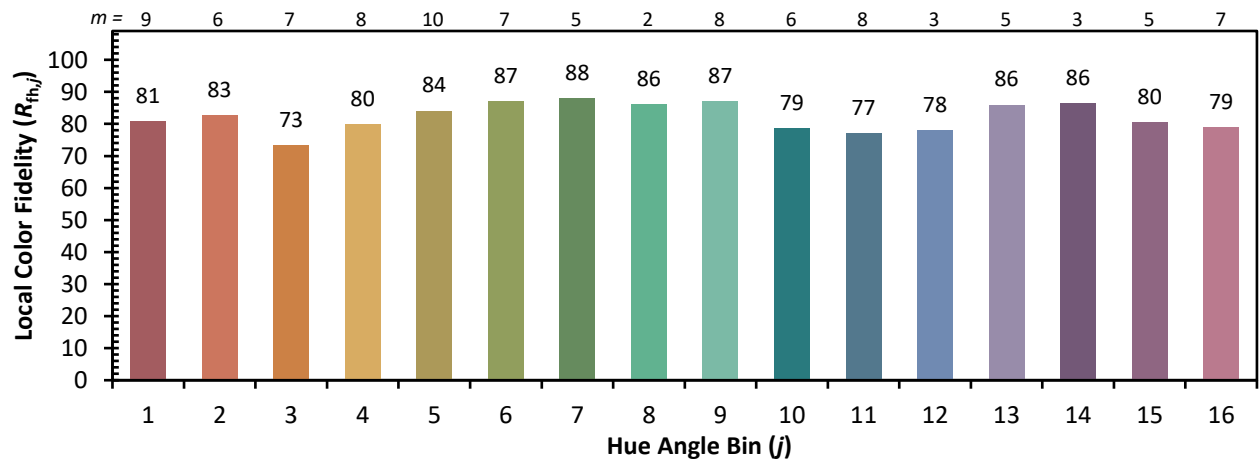
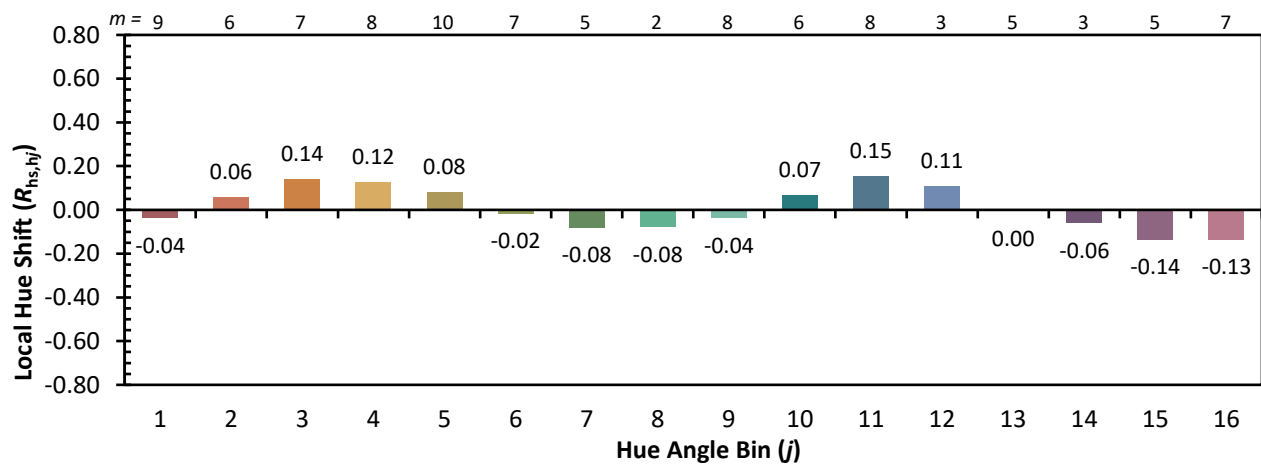
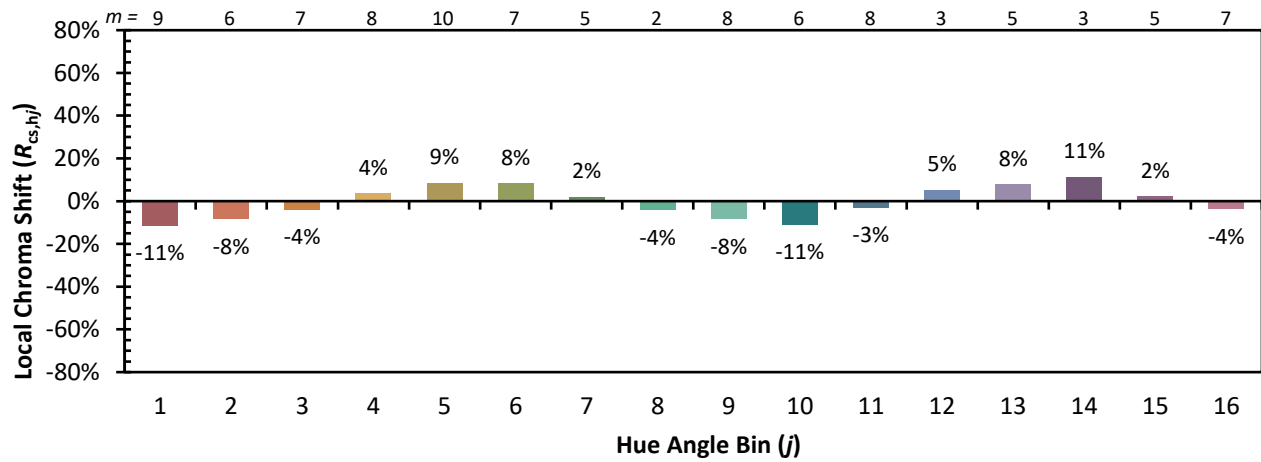


Individual Sample Fidelity Index ($R_{f,i}$)

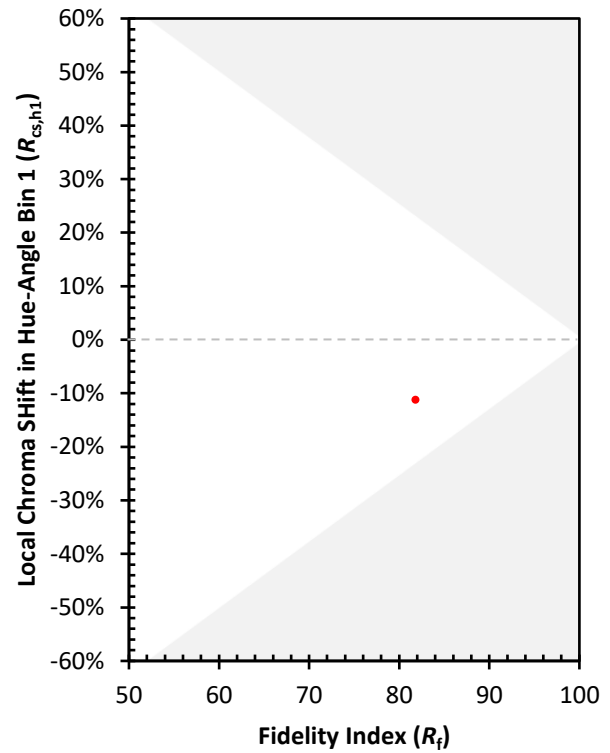
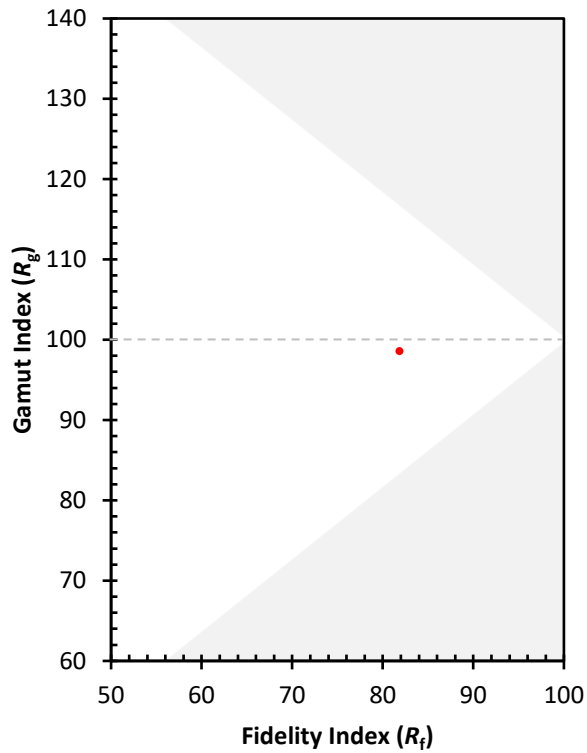
CES01 = 85	CES26 = 73	CES51 = 93	CES76 = 66
CES02 = 61	CES27 = 91	CES52 = 93	CES77 = 80
CES03 = 31	CES28 = 87	CES53 = 83	CES78 = 66
CES04 = 69	CES29 = 71	CES54 = 89	CES79 = 88
CES05 = 48	CES30 = 77	CES55 = 88	CES80 = 85
CES06 = 50	CES31 = 74	CES56 = 80	CES81 = 83
CES07 = 41	CES32 = 70	CES57 = 79	CES82 = 93
CES08 = 40	CES33 = 77	CES58 = 80	CES83 = 91
CES09 = 29	CES34 = 79	CES59 = 92	CES84 = 91
CES10 = 74	CES35 = 88	CES60 = 95	CES85 = 84
CES11 = 57	CES36 = 98	CES61 = 91	CES86 = 78
CES12 = 63	CES37 = 85	CES62 = 90	CES87 = 84
CES13 = 42	CES38 = 85	CES63 = 81	CES88 = 85
CES14 = 74	CES39 = 95	CES64 = 81	CES89 = 78
CES15 = 71	CES40 = 90	CES65 = 76	CES90 = 84
CES16 = 47	CES41 = 90	CES66 = 78	CES91 = 85
CES17 = 49	CES42 = 84	CES67 = 76	CES92 = 71
CES18 = 56	CES43 = 81	CES68 = 80	CES93 = 84
CES19 = 71	CES44 = 99	CES69 = 86	CES94 = 65
CES20 = 65	CES45 = 87	CES70 = 73	CES95 = 77
CES21 = 86	CES46 = 85	CES71 = 70	CES96 = 83
CES22 = 78	CES47 = 84	CES72 = 90	CES97 = 87
CES23 = 91	CES48 = 79	CES73 = 65	CES98 = 81
CES24 = 90	CES49 = 84	CES74 = 98	CES99 = 75
CES25 = 71	CES50 = 91	CES75 = 68	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)