

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: P1049517

Luminaire Tested: **GALN-SA6A-722-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049517
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-722-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 6xLight Square PACKAGE
70CRI 2200K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14221.5 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

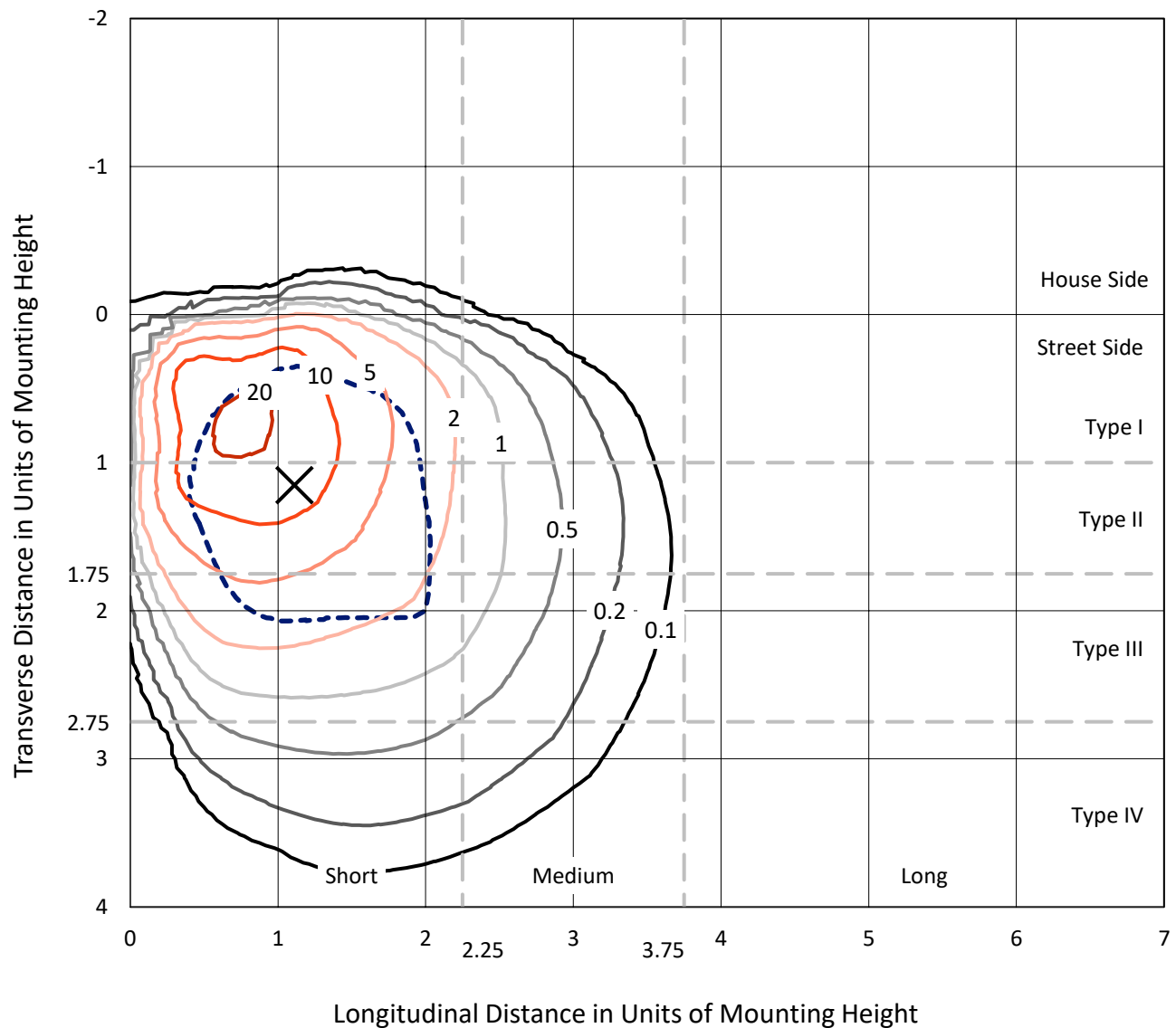
Input Watts (W): 162.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

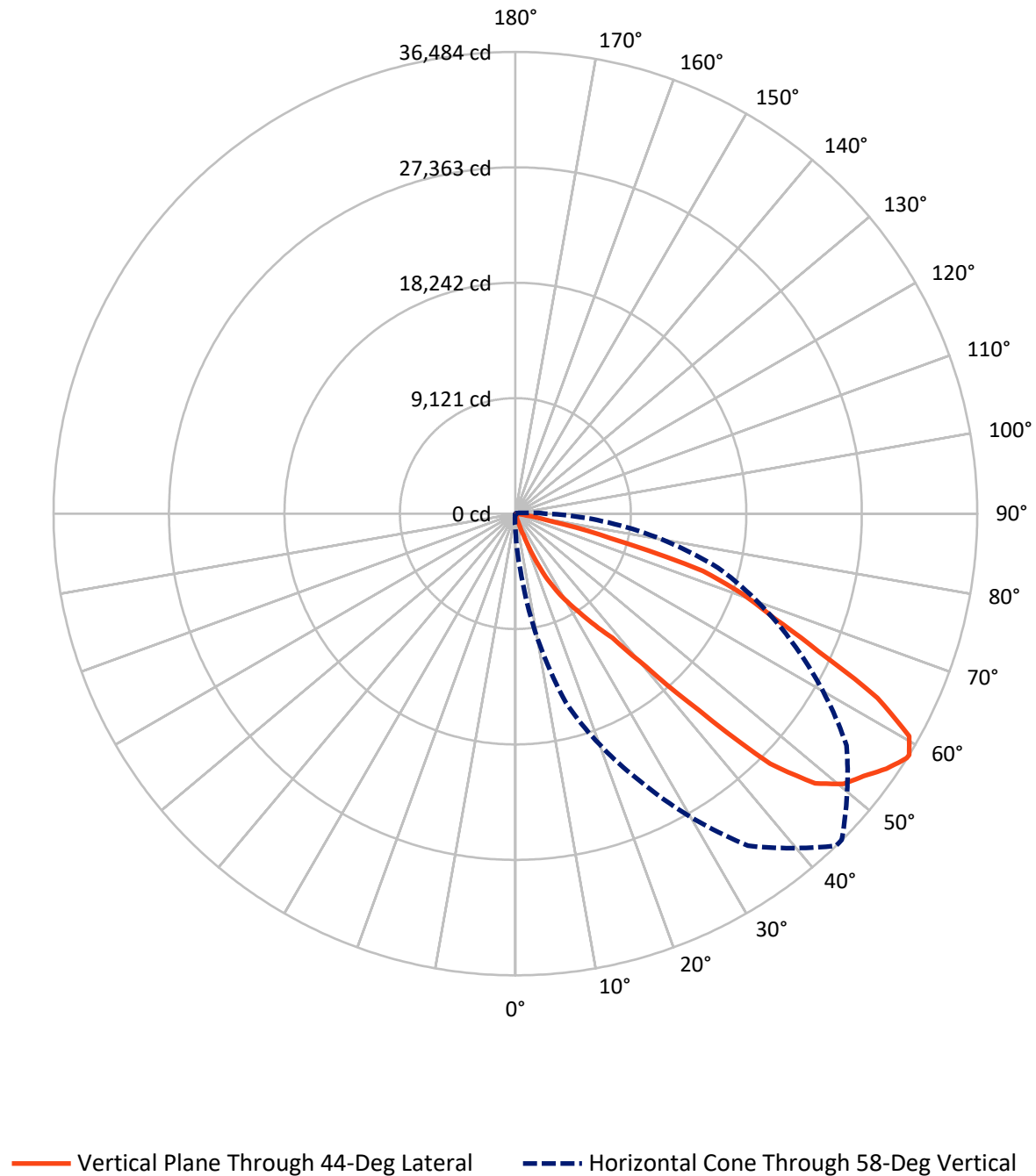
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 24.8 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	97.1	0.0	97.1
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	14124.4	0.0	14124.4
	% Fixture	99.3	0.0	99.3
Total	Lumens	14221.5	0.0	14221.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.6	0.0
10°-20°	31.2	0.2
20°-30°	336.9	2.4
30°-40°	996.4	7.0
40°-50°	2969.7	20.9
50°-60°	4712.2	33.1
60°-70°	3930.5	27.6
70°-80°	1212.2	8.5
80°-90°	26.9	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°	14221.5	100.0
0°-180°	14221.5	100.0



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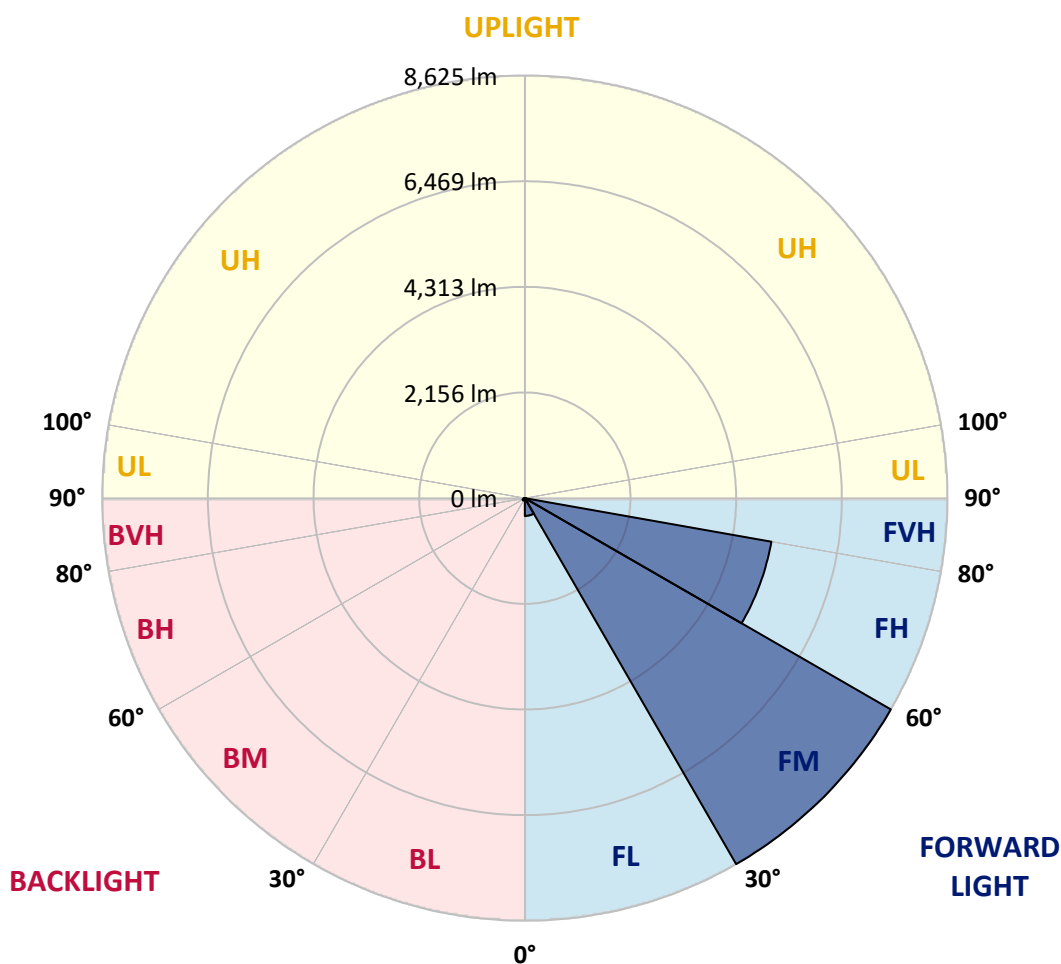
CATALOG NUMBER: GALN-SA6A-722-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	364.2	2.6			
FM	(30°-60°)	8625.0	60.6			
FH	(60°-80°)	5109.6	35.9			G3/7500
FVH	(80°-90°)	25.6	0.2			G1/100
BL	(0°-30°)	9.5	0.1	B0/110		
BM	(30°-60°)	53.1	0.4	B0/220		
BH	(60°-80°)	33.2	0.2	B0/110		G0/110
BVH	(80°-90°)	1.3	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°	85°
0°	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
2.5°	80.6	80.6	77.4	73.1	68.8	64.5	63.4	61.2	60.2	59.1	58.0
5°	83.8	83.8	82.7	79.5	75.2	72.0	72.0	68.8	66.6	64.5	62.3
7.5°	85.9	87.0	89.2	88.1	85.9	82.7	82.7	80.6	77.4	72.0	68.8
10°	89.2	92.4	96.7	98.8	99.9	99.9	98.8	97.8	92.4	84.9	76.3
12.5°	92.4	98.8	109.6	120.3	126.8	135.4	134.3	132.1	118.2	102.1	87.0
15°	98.8	108.5	131.1	162.2	210.6	240.6	252.5	241.7	195.5	137.5	101.0
17.5°	106.4	122.5	190.2	339.5	556.5	659.6	721.9	671.4	444.8	261.1	126.8
20°	113.9	149.3	353.4	879.9	1443.9	1781.2	1874.7	1728.6	1109.8	497.4	188.0
22.5°	126.8	209.5	716.6	1818.8	3111.2	3617.2	3712.8	3245.5	2096.0	981.9	282.5
25°	153.6	304.0	1235.5	2964.0	4643.2	5497.3	5457.5	4845.2	3400.2	1568.5	429.7
27.5°	192.3	442.6	1868.2	4211.3	6110.7	6863.8	6954.0	6196.6	4532.5	2306.6	610.2
30°	248.2	613.4	2547.2	5210.4	7287.1	8101.4	8116.4	7333.3	5545.6	2954.4	831.5
32.5°	301.9	774.6	3141.3	6176.2	8446.3	9339.0	9405.6	8442.0	6301.9	3629.0	1023.8
35°	342.7	879.9	3742.9	7024.9	9615.1	10845.2	10840.9	9696.8	7197.9	4231.7	1290.3
37.5°	345.9	985.1	4287.6	7893.0	11095.5	12472.8	12609.2	11348.0	8280.8	4977.3	1616.8
40°	338.4	1103.3	4977.3	9246.6	13763.0	15876.2	15996.5	14406.6	10453.1	6253.6	2127.1
42.5°	347.0	1308.5	6096.7	11746.6	18192.4	21227.4	21459.4	19787.8	14446.3	8857.7	3037.1
45°	392.1	1694.2	8442.0	15928.9	24506.2	28206.1	28128.8	25721.2	19092.7	12821.9	4837.6
47.5°	541.5	2638.5	11918.4	19999.4	28541.3	31836.2	31902.8	28960.3	21804.3	15869.8	7262.4
50°	832.6	4037.3	14839.5	22151.3	30276.3	33582.0	33519.7	30119.5	22834.6	17370.6	8748.1
52.5°	1082.9	5049.3	16304.9	22906.5	30498.7	34444.7	34440.4	30424.6	22994.6	17499.5	8934.0
55°	1145.2	5125.6	16316.7	22947.4	30997.2	35573.8	35715.6	31175.5	23202.0	16936.6	8234.6
57.5°	1120.5	4537.9	15635.6	23183.7	31884.6	36447.2	36454.7	31902.8	23728.4	16591.7	7076.5
58°	1099.0	4445.5	15498.1	23318.0	32037.1	36483.7	36465.5	31936.2	24157.0	16578.8	6895.0
60°	978.7	3860.0	14962.0	23660.7	31810.5	35733.9	35563.0	31208.8	24093.7	16446.7	5980.7
62.5°	769.2	3011.3	14434.5	23264.3	29380.4	32103.7	32174.6	27630.3	21964.4	15676.4	4903.2
65°	612.4	2244.2	13334.4	20406.6	24193.6	26363.7	26628.0	22468.2	18333.2	13274.2	3615.1
67.5°	487.7	1622.2	11185.8	16246.9	19144.3	22003.0	22195.3	18863.9	14203.5	10170.5	2568.7
70°	396.4	1096.9	7721.1	11881.9	15790.3	19004.6	19016.4	15671.0	10601.3	6664.0	1611.5
72.5°	351.3	759.5	4482.0	8665.4	12803.7	15486.2	15173.6	12716.7	8147.6	3947.0	960.4
75°	304.0	503.9	2198.0	5297.4	7763.0	7815.6	7934.9	5899.1	4072.7	1876.8	575.8
77.5°	250.3	357.7	865.9	1447.1	2328.0	2980.1	3090.8	2342.0	1354.7	462.0	307.3
80°	171.9	169.7	233.1	443.7	666.1	834.7	778.9	602.7	354.5	177.3	109.6
82.5°	74.1	80.6	105.3	126.8	103.1	99.9	95.6	61.2	47.3	36.5	22.6
85°	23.6	21.5	22.6	22.6	18.3	14.0	14.0	6.4	0.0	0.0	0.0
87.5°	11.8	9.7	9.7	8.6	5.4	2.1	1.1	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	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
2.5°	56.9	56.9	54.8	52.6	51.6	49.4	48.3	47.3	46.2	45.1	44.0
5°	60.2	59.1	55.9	52.6	49.4	46.2	44.0	41.9	39.7	38.7	37.6
7.5°	65.5	63.4	56.9	51.6	47.3	43.0	40.8	37.6	35.5	32.2	31.2
10°	72.0	67.7	59.1	52.6	46.2	40.8	37.6	34.4	31.2	26.9	25.8
12.5°	80.6	73.1	62.3	51.6	44.0	37.6	34.4	30.1	26.9	23.6	21.5
15°	88.1	78.4	63.4	51.6	41.9	34.4	30.1	25.8	22.6	18.3	16.1
17.5°	98.8	82.7	62.3	48.3	38.7	30.1	25.8	22.6	17.2	10.7	8.6
20°	117.1	85.9	60.2	45.1	33.3	24.7	19.3	15.0	7.5	2.1	0.0
22.5°	146.1	94.5	58.0	40.8	29.0	19.3	12.9	5.4	0.0	0.0	0.0
25°	202.0	109.6	58.0	38.7	25.8	14.0	4.3	0.0	0.0	0.0	0.0
27.5°	268.6	130.0	58.0	33.3	20.4	7.5	0.0	0.0	0.0	0.0	0.0
30°	336.3	152.6	58.0	29.0	16.1	1.1	0.0	0.0	0.0	0.0	0.0
32.5°	400.7	171.9	59.1	24.7	10.7	0.0	0.0	0.0	0.0	0.0	0.0
35°	466.3	175.1	58.0	21.5	6.4	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	550.0	168.7	54.8	19.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0
40°	676.8	171.9	51.6	18.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	911.0	185.9	47.3	18.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1574.9	249.2	43.0	19.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2605.2	448.0	41.9	19.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3325.0	564.0	44.0	20.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3319.6	628.5	46.2	21.5	4.3	0.0	0.0	0.0	0.0	0.0	0.0
55°	2951.1	640.3	49.4	23.6	14.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	2466.6	584.4	56.9	29.0	25.8	0.0	0.0	0.0	0.0	0.0	0.0
58°	2380.7	558.6	59.1	30.1	27.9	0.0	0.0	0.0	0.0	0.0	0.0
60°	1951.0	455.5	75.2	37.6	37.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1347.2	397.5	85.9	48.3	38.7	0.0	0.0	0.0	0.0	0.0	0.0
65°	952.9	358.8	93.5	51.6	31.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	712.3	330.9	103.1	52.6	16.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	545.8	310.5	126.8	55.9	4.3	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	444.8	286.8	153.6	58.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	368.5	258.9	148.3	63.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	244.9	200.9	135.4	63.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	85.9	79.5	105.3	55.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	12.9	10.7	15.0	19.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
2.5°	44.0	44.0	43.0	44.0	44.0	46.2	51.6	59.1	67.7	70.9	74.1
5°	36.5	35.5	34.4	34.4	34.4	37.6	41.9	50.5	60.2	64.5	66.6
7.5°	30.1	29.0	27.9	26.9	26.9	29.0	34.4	44.0	53.7	58.0	61.2
10°	24.7	22.6	21.5	20.4	20.4	22.6	27.9	37.6	48.3	52.6	56.9
12.5°	20.4	17.2	15.0	14.0	12.9	16.1	21.5	30.1	41.9	47.3	51.6
15°	14.0	10.7	7.5	6.4	5.4	8.6	14.0	23.6	35.5	41.9	46.2
17.5°	7.5	3.2	1.1	0.0	0.0	2.1	6.4	17.2	29.0	34.4	39.7
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	21.5	26.9	32.2
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	12.9	18.3	23.6
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	9.7	14.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	6.4
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	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	6.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	8.6	11.8
90°	0.0	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):

	285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
0°	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
2.5°	76.3	75.2	73.1	70.9	70.9	70.9	74.1	77.4	80.6	80.6
5°	70.9	70.9	69.8	67.7	67.7	68.8	73.1	78.4	82.7	83.8
7.5°	65.5	67.7	65.5	64.5	65.5	66.6	70.9	77.4	83.8	85.9
10°	62.3	63.4	63.4	62.3	62.3	64.5	68.8	77.4	85.9	89.2
12.5°	58.0	60.2	59.1	59.1	59.1	61.2	66.6	76.3	88.1	92.4
15°	53.7	56.9	56.9	55.9	55.9	56.9	64.5	75.2	91.3	98.8
17.5°	49.4	52.6	53.7	51.6	51.6	53.7	61.2	75.2	93.5	106.4
20°	40.8	46.2	49.4	46.2	46.2	48.3	55.9	70.9	94.5	113.9
22.5°	32.2	37.6	41.9	40.8	40.8	41.9	51.6	67.7	95.6	126.8
25°	23.6	29.0	32.2	34.4	34.4	37.6	47.3	65.5	99.9	153.6
27.5°	14.0	20.4	24.7	26.9	27.9	32.2	44.0	63.4	107.4	192.3
30°	6.4	11.8	17.2	21.5	21.5	29.0	40.8	61.2	117.1	248.2
32.5°	0.0	5.4	8.6	15.0	16.1	23.6	37.6	59.1	131.1	301.9
35°	0.0	0.0	4.3	11.8	11.8	19.3	34.4	56.9	152.6	342.7
37.5°	0.0	0.0	0.0	8.6	9.7	17.2	33.3	55.9	156.8	345.9
40°	0.0	0.0	0.0	6.4	7.5	16.1	33.3	56.9	141.8	338.4
42.5°	0.0	0.0	0.0	4.3	5.4	16.1	33.3	59.1	127.8	347.0
45°	0.0	0.0	0.0	3.2	4.3	17.2	32.2	58.0	120.3	392.1
47.5°	0.0	0.0	0.0	4.3	6.4	17.2	31.2	56.9	121.4	541.5
50°	0.0	0.0	0.0	5.4	7.5	17.2	32.2	54.8	133.2	832.6
52.5°	0.0	0.0	0.0	4.3	6.4	19.3	35.5	53.7	145.0	1082.9
55°	0.0	0.0	0.0	1.1	3.2	24.7	38.7	53.7	163.3	1145.2
57.5°	0.0	0.0	0.0	0.0	0.0	27.9	44.0	56.9	193.4	1120.5
58°	0.0	0.0	0.0	0.0	0.0	27.9	45.1	56.9	195.5	1099.0
60°	0.0	0.0	0.0	0.0	0.0	27.9	49.4	63.4	210.6	978.7
62.5°	0.0	0.0	0.0	0.0	0.0	23.6	59.1	79.5	219.2	769.2
65°	0.0	0.0	0.0	0.0	0.0	19.3	69.8	87.0	225.6	612.4
67.5°	0.0	0.0	0.0	0.0	0.0	18.3	72.0	88.1	228.8	487.7
70°	0.0	0.0	0.0	0.0	0.0	19.3	70.9	94.5	239.6	396.4
72.5°	0.0	0.0	0.0	0.0	0.0	21.5	64.5	104.2	239.6	351.3
75°	0.0	0.0	0.0	0.0	0.0	22.6	60.2	117.1	218.1	304.0
77.5°	0.0	0.0	0.0	0.0	0.0	21.5	59.1	136.4	194.5	250.3
80°	2.1	3.2	3.2	2.1	2.1	18.3	58.0	138.6	165.4	171.9
82.5°	6.4	8.6	7.5	5.4	5.4	16.1	51.6	116.0	85.9	74.1
85°	11.8	14.0	14.0	11.8	11.8	15.0	32.2	41.9	29.0	23.6
87.5°	16.1	18.3	18.3	16.1	16.1	15.0	14.0	12.9	11.8	11.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-2

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-722-U-5WQ

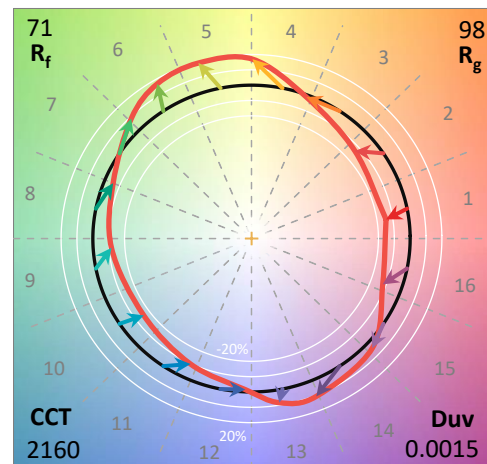
Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-2
 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-722-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2200K CCT 26 LEDS

Spectral Parameters

CCT (K):	2160	CRI (Ra):	71.9		
CIE u':	0.2927	R1:	68.7	R9:	-17.8
CIE v':	0.5388	R2:	82.6	R10:	60.5
Duv:	0.0015	R3:	95.5	R11:	60.2
CIE x:	0.5130	R4:	66.4	R12:	48.2
CIE y:	0.4197	R5:	65.4	R13:	70.7
CIE z:	0.0674	R6:	75.9	R14:	96.8
Peak Wavelength (nm):	609	R7:	77.2	R15:	61.8
Dominant Wavelength (nm):	587	R8:	43.5		
Purity:	79.96089				
Rf:	70.6				
Rg:	97.6				



Test Conditions

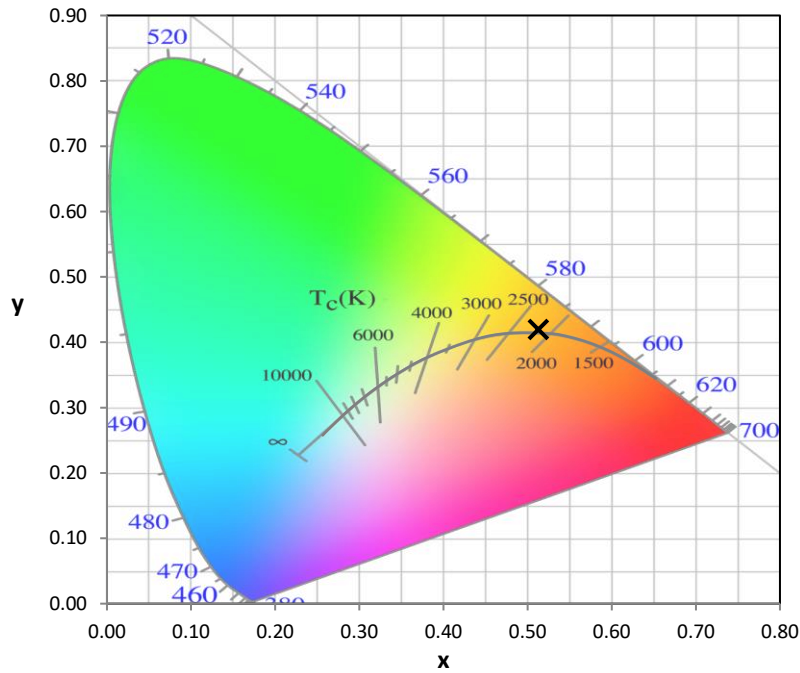
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-2

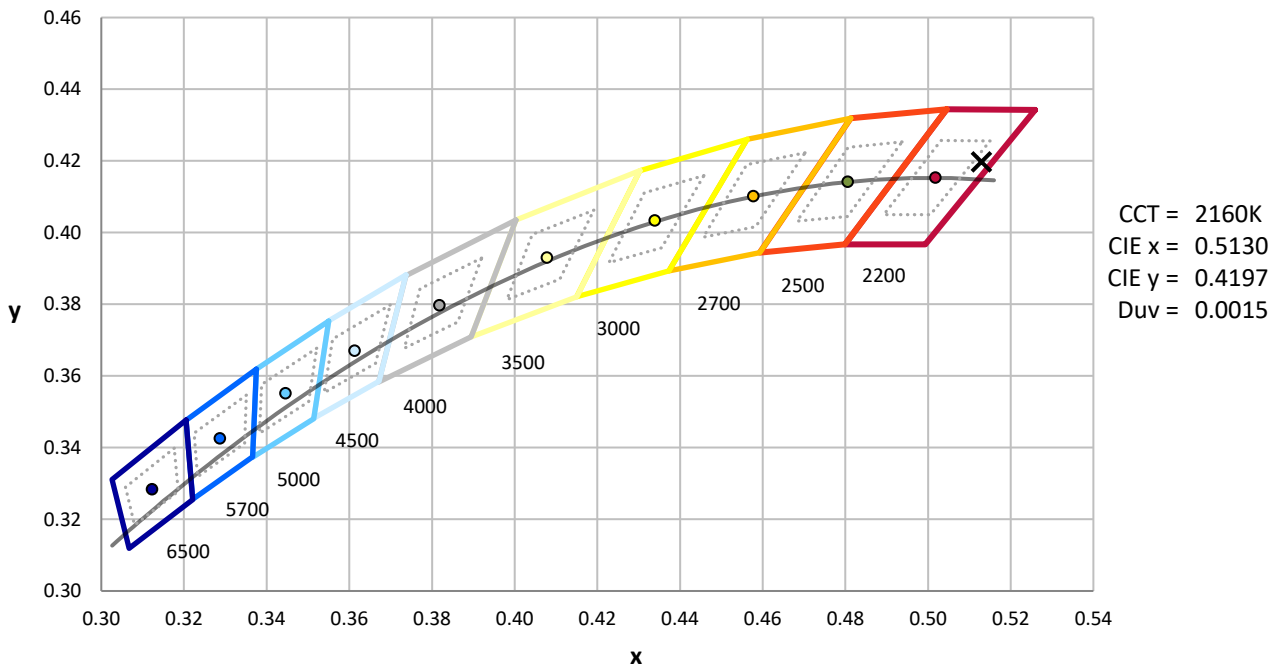
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



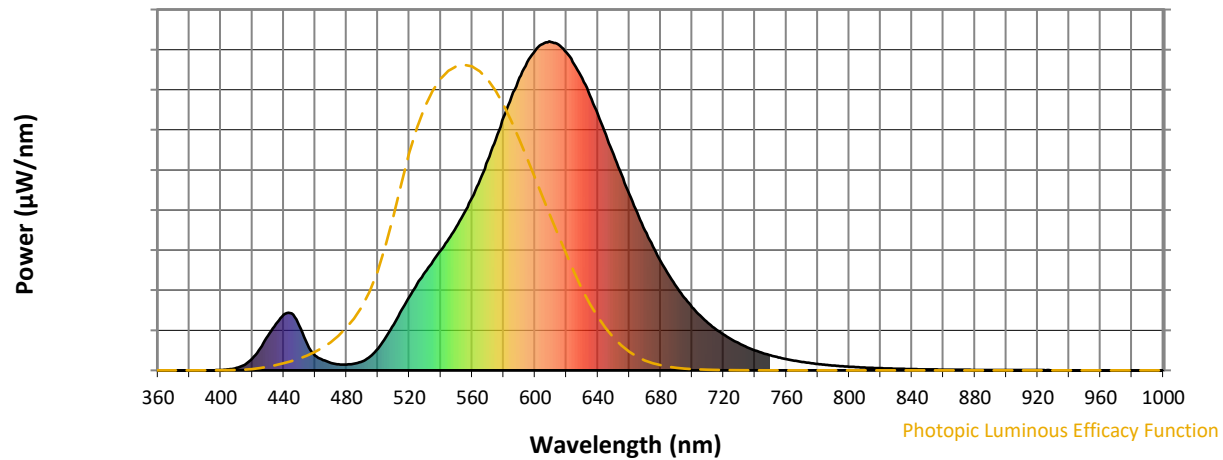
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-2

Photopic Flux vs. Wavelength

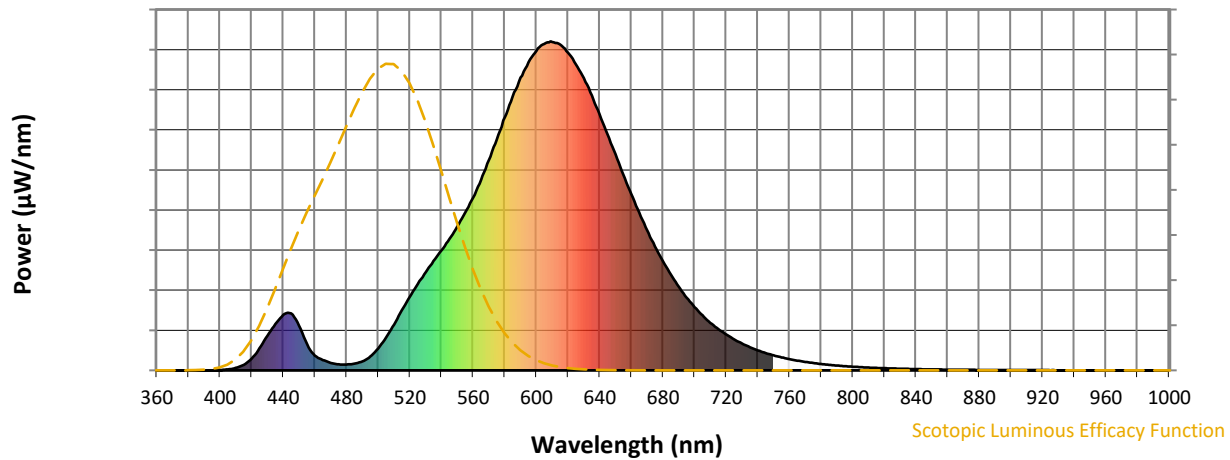


Photopic Lumens: NR

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

Scotopic Flux vs. Wavelength



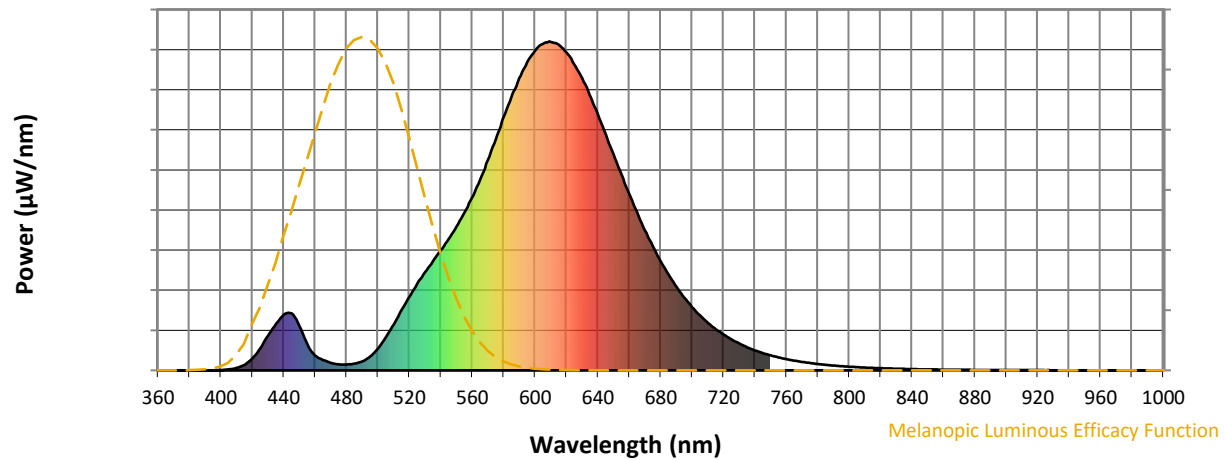
Scotopic Lumens: NR

S/P: 0.8

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.21

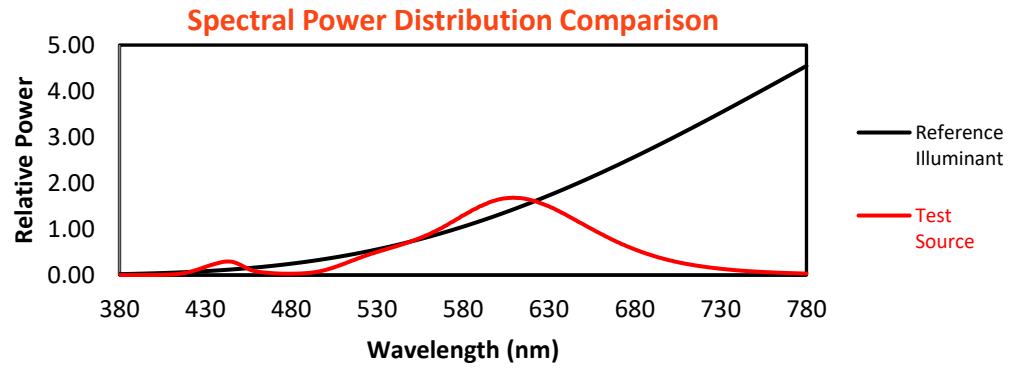
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

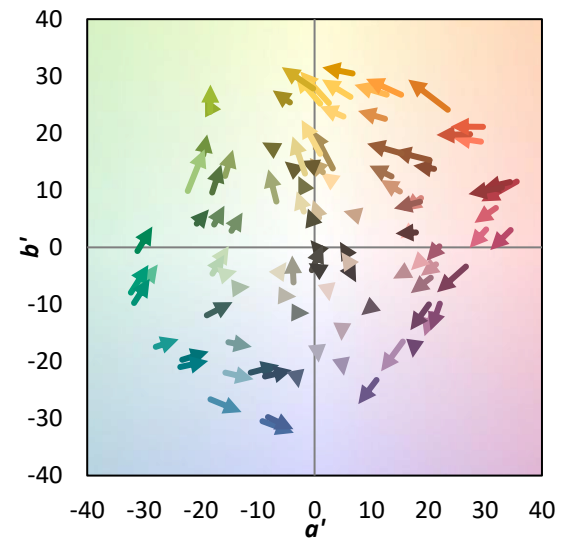
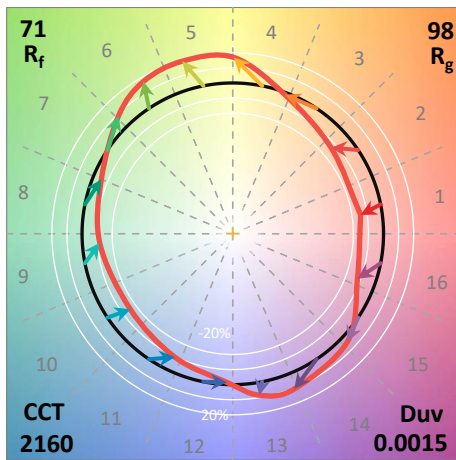
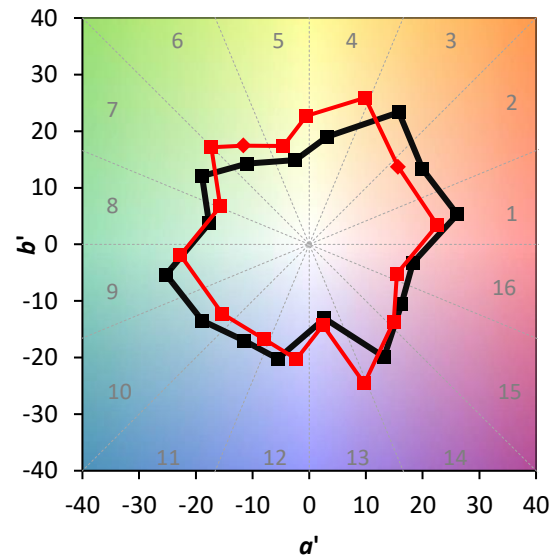
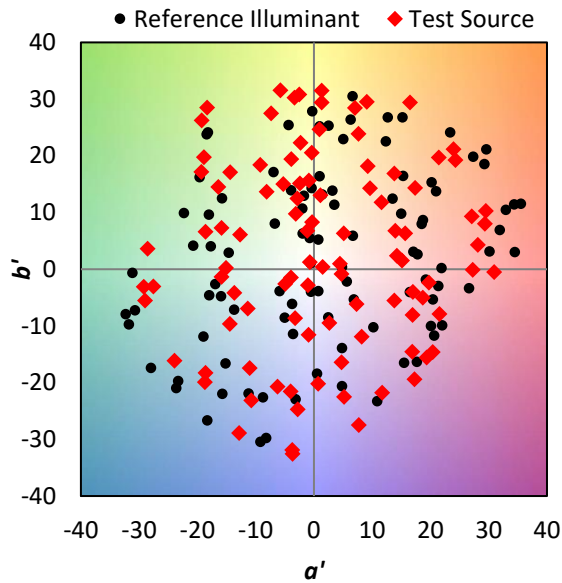
TM-30-18

Summary

$R_f = 70.6$
 $R_g = 97.6$
 $CIE R_a = 71.9$
 $R_g = -17.8$

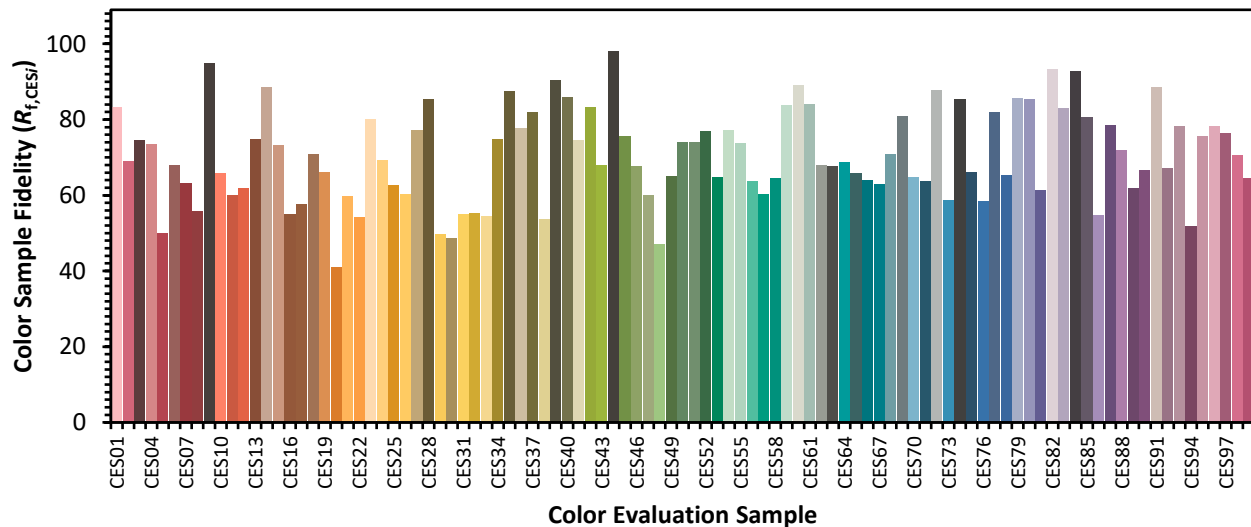


Color Vector Graphics

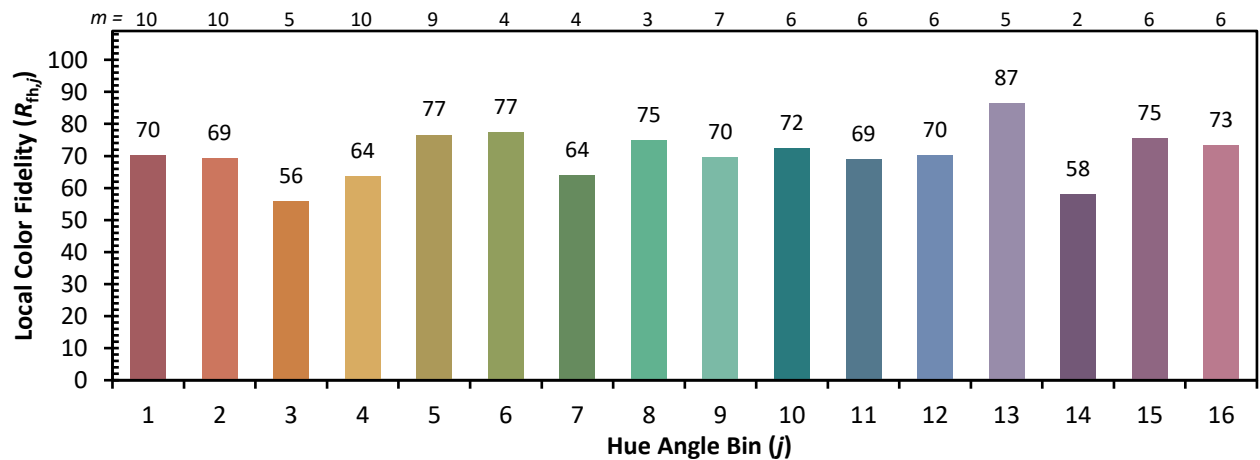
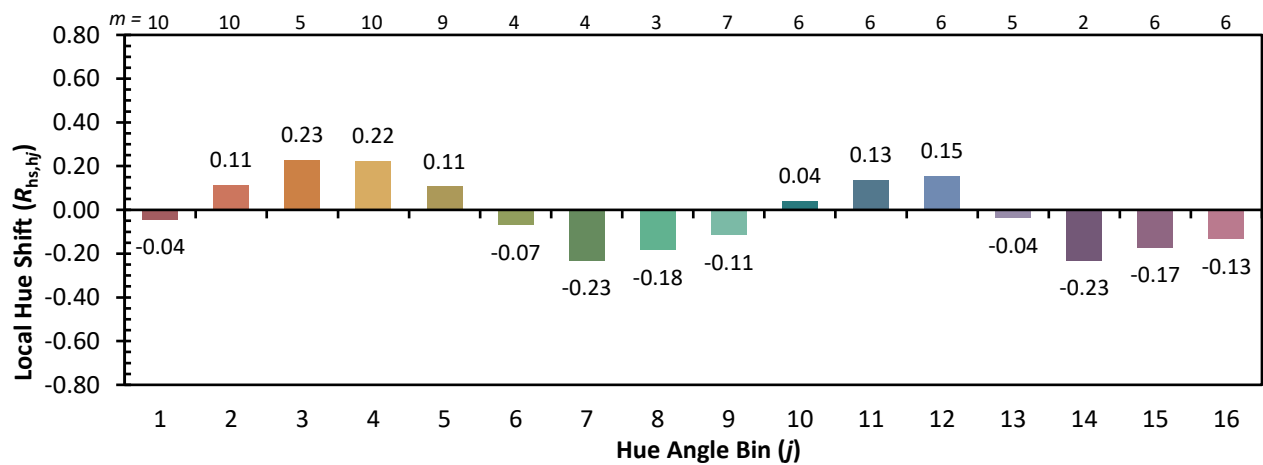
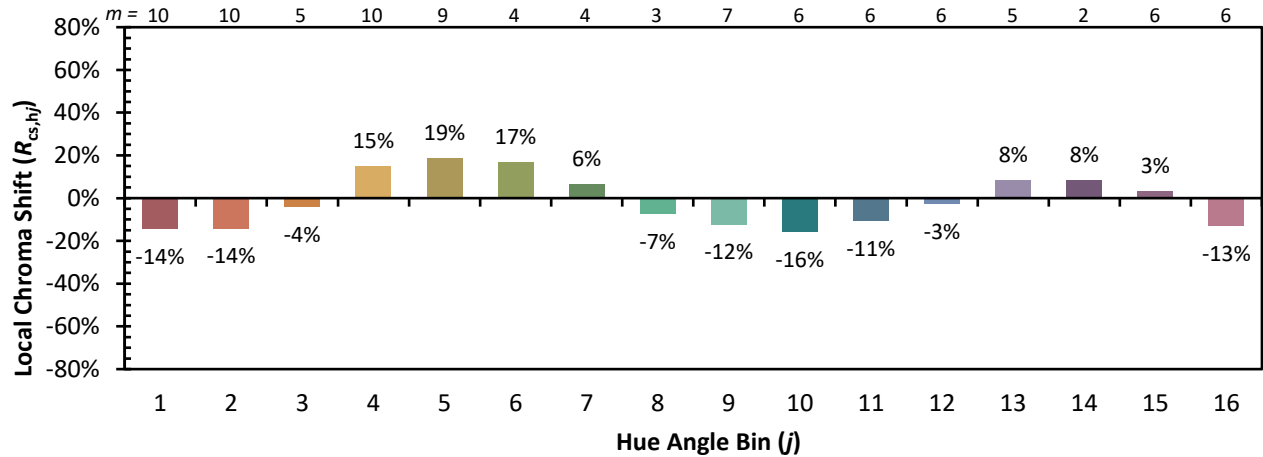


Individual Sample Fidelity Index ($R_{f,i}$)

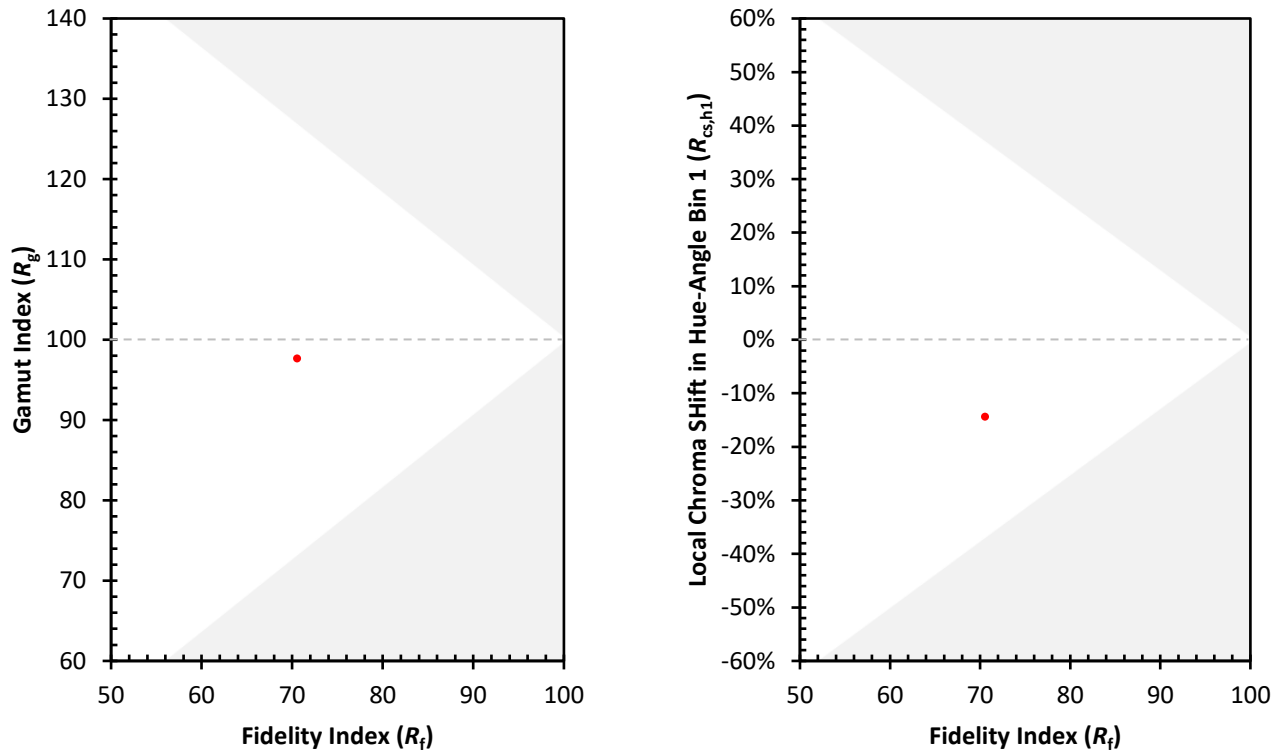
CES01 = 87	CES26 = 60	CES51 = 74	CES76 = 58
CES02 = 65	CES27 = 77	CES52 = 77	CES77 = 82
CES03 = 32	CES28 = 85	CES53 = 65	CES78 = 65
CES04 = 72	CES29 = 50	CES54 = 77	CES79 = 86
CES05 = 52	CES30 = 49	CES55 = 74	CES80 = 85
CES06 = 53	CES31 = 55	CES56 = 64	CES81 = 61
CES07 = 44	CES32 = 55	CES57 = 60	CES82 = 93
CES08 = 43	CES33 = 55	CES58 = 64	CES83 = 83
CES09 = 29	CES34 = 75	CES59 = 84	CES84 = 93
CES10 = 79	CES35 = 88	CES60 = 89	CES85 = 81
CES11 = 62	CES36 = 78	CES61 = 84	CES86 = 55
CES12 = 68	CES37 = 82	CES62 = 68	CES87 = 79
CES13 = 45	CES38 = 54	CES63 = 68	CES88 = 72
CES14 = 75	CES39 = 90	CES64 = 69	CES89 = 62
CES15 = 72	CES40 = 86	CES65 = 66	CES90 = 67
CES16 = 49	CES41 = 75	CES66 = 64	CES91 = 89
CES17 = 51	CES42 = 83	CES67 = 63	CES92 = 67
CES18 = 57	CES43 = 68	CES68 = 71	CES93 = 78
CES19 = 74	CES44 = 98	CES69 = 81	CES94 = 52
CES20 = 68	CES45 = 76	CES70 = 65	CES95 = 76
CES21 = 89	CES46 = 68	CES71 = 64	CES96 = 78
CES22 = 81	CES47 = 60	CES72 = 88	CES97 = 76
CES23 = 92	CES48 = 47	CES73 = 59	CES98 = 71
CES24 = 92	CES49 = 65	CES74 = 85	CES99 = 65
CES25 = 74	CES50 = 74	CES75 = 66	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)