

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: P1049987

Luminaire Tested: **GALN-SA6C-935-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049987
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6C-935-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 6xLight Square PACKAGE
90CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22131.8 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

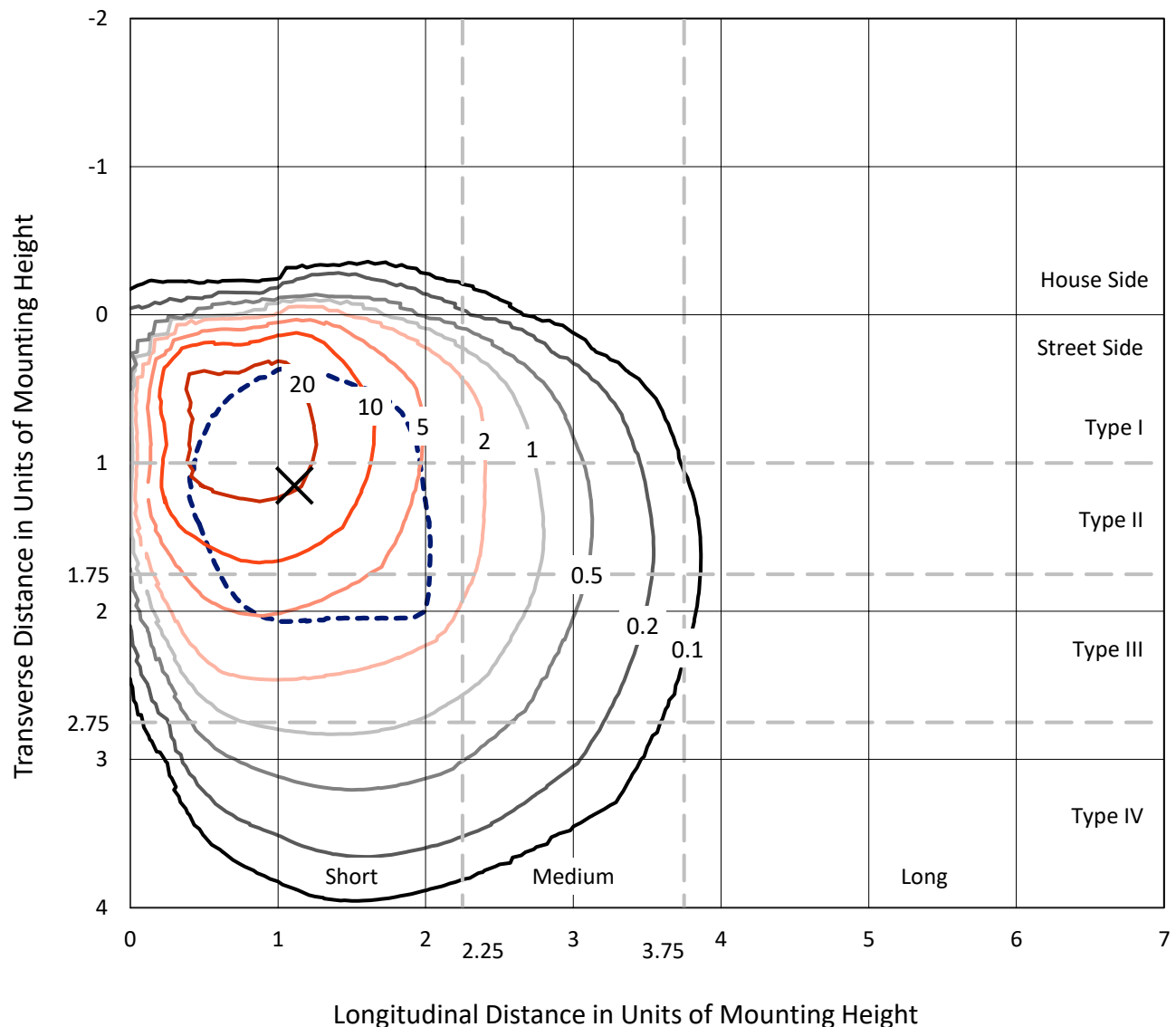
Input Watts (W): 282.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

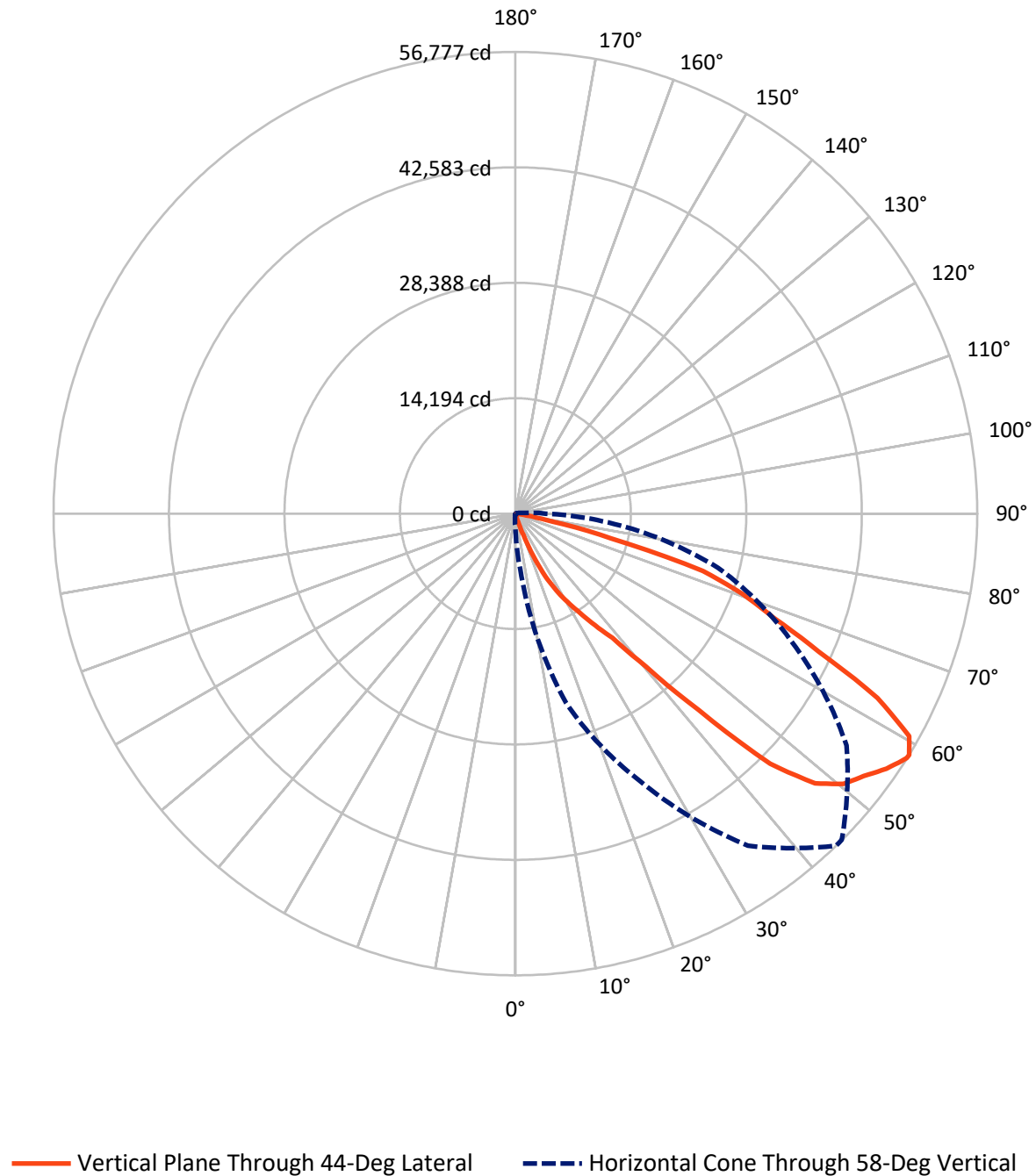
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 38.5 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	151.1	0.0	151.1
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	21980.7	0.0	21980.7
	% Fixture	99.3	0.0	99.3
Total	Lumens	22131.8	0.0	22131.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.7	0.0
10°-20°	48.5	0.2
20°-30°	524.3	2.4
30°-40°	1550.6	7.0
40°-50°	4621.5	20.9
50°-60°	7333.2	33.1
60°-70°	6116.7	27.6
70°-80°	1886.5	8.5
80°-90°	41.9	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°	22131.8	100.0
0°-180°	22131.8	100.0



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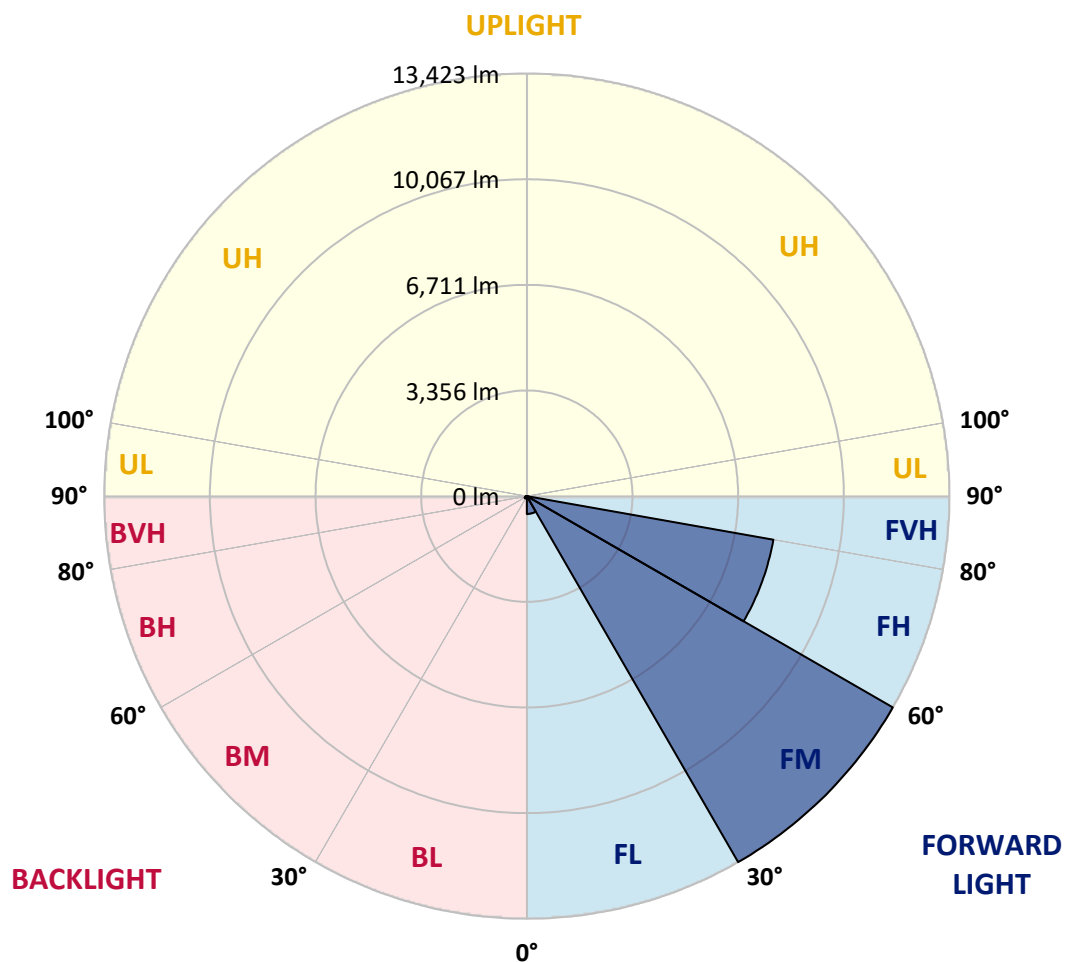
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	566.7	2.6			
FM	(30°-60°)	13422.5	60.6			
FH	(60°-80°)	7951.6	35.9			G4/12000
FVH	(80°-90°)	39.9	0.2			G1/100
BL	(0°-30°)	14.8	0.1	B0/110		
BM	(30°-60°)	82.7	0.4	B0/220		
BH	(60°-80°)	51.6	0.2	B0/110		G0/110
BVH	(80°-90°)	2.0	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°	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
2.5°	125.4	125.4	120.4	113.7	107.0	100.3	98.6	95.3	93.6	92.0
5°	130.4	130.4	128.7	123.7	117.0	112.0	112.0	107.0	103.7	100.3
7.5°	133.7	135.4	138.8	137.1	133.7	128.7	128.7	125.4	120.4	112.0
10°	138.8	143.8	150.5	153.8	155.5	155.5	153.8	152.1	143.8	132.1
12.5°	143.8	153.8	170.5	187.2	197.3	210.7	209.0	205.6	183.9	158.8
15°	153.8	168.9	204.0	252.5	327.7	374.5	392.9	376.2	304.3	214.0
17.5°	165.5	190.6	295.9	528.3	866.0	1026.5	1123.5	1044.9	692.2	406.3
20°	177.2	232.4	550.0	1369.3	2247.0	2772.0	2917.4	2690.0	1727.0	774.1
22.5°	197.3	326.0	1115.1	2830.5	4841.7	5629.2	5778.0	5050.7	3261.8	1528.1
25°	239.1	473.1	1922.7	4612.7	7225.8	8555.0	8493.1	7540.1	5291.5	2440.9
27.5°	299.3	688.8	2907.4	6553.7	9509.6	10681.6	10822.0	9643.4	7053.6	3589.5
30°	386.2	954.6	3964.0	8108.6	11340.3	12607.6	12631.0	11412.2	8630.2	4597.7
32.5°	469.8	1205.4	4888.6	9611.6	13144.3	14533.6	14637.2	13137.6	9807.2	5647.6
35°	533.3	1369.3	5824.8	10932.4	14963.3	16877.6	16870.9	15090.3	11201.6	6585.5
37.5°	538.3	1533.1	6672.4	12283.3	17267.1	19410.4	19622.8	17660.0	12886.8	7745.8
40°	526.6	1717.0	7745.8	14389.8	21418.4	24706.9	24894.2	22419.8	16267.3	9732.0
42.5°	540.0	2036.3	9487.9	18280.3	28311.5	33034.5	33395.7	30794.2	22481.7	13784.6
45°	610.2	2636.5	13137.6	24788.9	38137.1	43895.0	43774.7	40028.0	29712.5	19953.8
47.5°	842.6	4106.1	18547.8	31123.6	44416.7	49544.3	49647.9	45068.7	33932.3	24696.9
50°	1295.7	6282.9	23093.6	34472.4	47116.7	52261.1	52164.1	46872.6	35535.7	27032.5
52.5°	1685.2	7857.8	25374.0	35647.7	47462.8	53603.6	53596.9	47347.4	35784.8	27233.1
55°	1782.2	7976.5	25392.4	35711.2	48238.6	55360.7	55581.4	48516.1	36107.4	26357.1
57.5°	1743.8	7062.0	24332.4	36079.0	49619.5	56720.0	56731.7	49647.9	36926.7	25820.4
58°	1710.3	6918.2	24118.4	36288.0	49856.9	56776.8	56748.4	49699.8	37593.7	25800.3
60°	1523.1	6007.0	23284.2	36821.3	49504.2	55609.8	55344.0	48567.9	37495.1	25594.7
62.5°	1197.1	4686.3	22463.3	36204.4	45722.4	49960.6	50070.9	42998.9	34181.4	24396.0
65°	953.0	3492.5	20751.3	31757.2	37650.6	41027.8	41439.0	34965.6	28530.5	20657.7
67.5°	759.0	2524.5	17407.5	25283.7	29792.8	34241.6	34540.9	29356.4	22103.8	15827.6
70°	616.9	1707.0	12015.8	18490.9	24573.2	29575.4	29593.8	24387.6	16498.0	10370.6
72.5°	546.7	1182.0	6975.1	13485.3	19925.4	24100.1	23613.5	19790.0	12679.5	6142.5
75°	473.1	784.1	3420.7	8244.0	12081.0	12162.9	12348.5	9180.3	6338.1	2920.8
77.5°	389.5	556.7	1347.5	2252.0	3622.9	4637.8	4810.0	3644.7	2108.2	718.9
80°	267.5	264.2	362.8	690.5	1036.6	1299.0	1212.1	937.9	551.7	275.9
82.5°	115.4	125.4	163.8	197.3	160.5	155.5	148.8	95.3	73.6	56.8
85°	36.8	33.4	35.1	35.1	28.4	21.7	21.7	10.0	0.0	0.0
87.5°	18.4	15.0	15.0	13.4	8.4	3.3	1.7	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°
97.0	0°	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
90.3	2.5°	88.6	88.6	85.3	81.9	80.2	76.9	75.2	73.6	71.9	70.2
97.0	5°	93.6	92.0	86.9	81.9	76.9	71.9	68.5	65.2	61.9	60.2
107.0	7.5°	102.0	98.6	88.6	80.2	73.6	66.9	63.5	58.5	55.2	50.2
118.7	10°	112.0	105.3	92.0	81.9	71.9	63.5	58.5	53.5	48.5	41.8
135.4	12.5°	125.4	113.7	97.0	80.2	68.5	58.5	53.5	46.8	41.8	36.8
157.2	15°	137.1	122.0	98.6	80.2	65.2	53.5	46.8	40.1	35.1	28.4
197.3	17.5°	153.8	128.7	97.0	75.2	60.2	46.8	40.1	35.1	26.7	16.7
292.6	20°	182.2	133.7	93.6	70.2	51.8	38.5	30.1	23.4	11.7	3.3
439.7	22.5°	227.4	147.1	90.3	63.5	45.1	30.1	20.1	8.4	0.0	0.0
668.7	25°	314.3	170.5	90.3	60.2	40.1	21.7	6.7	0.0	0.0	0.0
949.6	27.5°	418.0	202.3	90.3	51.8	31.8	11.7	0.0	0.0	0.0	0.0
1294.0	30°	523.3	237.4	90.3	45.1	25.1	1.7	0.0	0.0	0.0	0.0
1593.3	32.5°	623.6	267.5	92.0	38.5	16.7	0.0	0.0	0.0	0.0	0.0
2007.9	35°	725.6	272.5	90.3	33.4	10.0	0.0	0.0	0.0	0.0	0.0
2516.2	37.5°	856.0	262.5	85.3	30.1	5.0	0.0	0.0	0.0	0.0	0.0
3310.3	40°	1053.3	267.5	80.2	28.4	1.7	0.0	0.0	0.0	0.0	0.0
4726.4	42.5°	1417.7	289.2	73.6	28.4	0.0	0.0	0.0	0.0	0.0	0.0
7528.4	45°	2451.0	387.9	66.9	30.1	0.0	0.0	0.0	0.0	0.0	0.0
11301.9	47.5°	4054.3	697.2	65.2	30.1	0.0	0.0	0.0	0.0	0.0	0.0
13614.1	50°	5174.4	877.7	68.5	31.8	0.0	0.0	0.0	0.0	0.0	0.0
13903.3	52.5°	5166.1	978.0	71.9	33.4	6.7	0.0	0.0	0.0	0.0	0.0
12814.9	55°	4592.6	996.4	76.9	36.8	21.7	0.0	0.0	0.0	0.0	0.0
11012.6	57.5°	3838.6	909.5	88.6	45.1	40.1	0.0	0.0	0.0	0.0	0.0
10730.1	58°	3704.9	869.4	92.0	46.8	43.5	0.0	0.0	0.0	0.0	0.0
9307.3	60°	3036.1	708.9	117.0	58.5	58.5	0.0	0.0	0.0	0.0	0.0
7630.4	62.5°	2096.5	618.6	133.7	75.2	60.2	0.0	0.0	0.0	0.0	0.0
5625.9	65°	1483.0	558.4	145.5	80.2	48.5	0.0	0.0	0.0	0.0	0.0
3997.4	67.5°	1108.5	514.9	160.5	81.9	25.1	0.0	0.0	0.0	0.0	0.0
2507.8	70°	849.3	483.2	197.3	86.9	6.7	0.0	0.0	0.0	0.0	0.0
1494.7	72.5°	692.2	446.4	239.1	90.3	0.0	0.0	0.0	0.0	0.0	0.0
896.1	75°	573.5	402.9	230.7	98.6	0.0	0.0	0.0	0.0	0.0	0.0
478.2	77.5°	381.2	312.6	210.7	98.6	0.0	0.0	0.0	0.0	0.0	0.0
170.5	80°	133.7	123.7	163.8	86.9	0.0	0.0	0.0	0.0	0.0	0.0
35.1	82.5°	20.1	16.7	23.4	30.1	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°
97.0	0°	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
68.5	2.5°	68.5	68.5	66.9	68.5	68.5	71.9	80.2	92.0	105.3	110.3
58.5	5°	56.8	55.2	53.5	53.5	53.5	58.5	65.2	78.6	93.6	100.3
48.5	7.5°	46.8	45.1	43.5	41.8	41.8	45.1	53.5	68.5	83.6	90.3
40.1	10°	38.5	35.1	33.4	31.8	31.8	35.1	43.5	58.5	75.2	81.9
33.4	12.5°	31.8	26.7	23.4	21.7	20.1	25.1	33.4	46.8	65.2	73.6
25.1	15°	21.7	16.7	11.7	10.0	8.4	13.4	21.7	36.8	55.2	65.2
13.4	17.5°	11.7	5.0	1.7	0.0	0.0	3.3	10.0	26.7	45.1	53.5
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.4	33.4	41.8
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	20.1	28.4
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4	15.0
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
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	5.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	13.4
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°
97.0	0°	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
115.4	2.5°	118.7	117.0	113.7	110.3	110.3	110.3	115.4	120.4	125.4	125.4
103.7	5°	110.3	110.3	108.7	105.3	105.3	107.0	113.7	122.0	128.7	130.4
95.3	7.5°	102.0	105.3	102.0	100.3	102.0	103.7	110.3	120.4	130.4	133.7
88.6	10°	97.0	98.6	98.6	97.0	97.0	100.3	107.0	120.4	133.7	138.8
80.2	12.5°	90.3	93.6	92.0	92.0	92.0	95.3	103.7	118.7	137.1	143.8
71.9	15°	83.6	88.6	88.6	86.9	86.9	88.6	100.3	117.0	142.1	153.8
61.9	17.5°	76.9	81.9	83.6	80.2	80.2	83.6	95.3	117.0	145.5	165.5
50.2	20°	63.5	71.9	76.9	71.9	71.9	75.2	86.9	110.3	147.1	177.2
36.8	22.5°	50.2	58.5	65.2	63.5	63.5	65.2	80.2	105.3	148.8	197.3
21.7	25°	36.8	45.1	50.2	53.5	53.5	58.5	73.6	102.0	155.5	239.1
10.0	27.5°	21.7	31.8	38.5	41.8	43.5	50.2	68.5	98.6	167.2	299.3
0.0	30°	10.0	18.4	26.7	33.4	33.4	45.1	63.5	95.3	182.2	386.2
0.0	32.5°	0.0	8.4	13.4	23.4	25.1	36.8	58.5	92.0	204.0	469.8
0.0	35°	0.0	0.0	6.7	18.4	18.4	30.1	53.5	88.6	237.4	533.3
0.0	37.5°	0.0	0.0	0.0	13.4	15.0	26.7	51.8	86.9	244.1	538.3
0.0	40°	0.0	0.0	0.0	10.0	11.7	25.1	51.8	88.6	220.7	526.6
0.0	42.5°	0.0	0.0	0.0	6.7	8.4	25.1	51.8	92.0	199.0	540.0
0.0	45°	0.0	0.0	0.0	5.0	6.7	26.7	50.2	90.3	187.2	610.2
0.0	47.5°	0.0	0.0	0.0	6.7	10.0	26.7	48.5	88.6	188.9	842.6
0.0	50°	0.0	0.0	0.0	8.4	11.7	26.7	50.2	85.3	207.3	1295.7
0.0	52.5°	0.0	0.0	0.0	6.7	10.0	30.1	55.2	83.6	225.7	1685.2
0.0	55°	0.0	0.0	0.0	1.7	5.0	38.5	60.2	83.6	254.1	1782.2
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	43.5	68.5	88.6	300.9	1743.8
0.0	58°	0.0	0.0	0.0	0.0	0.0	43.5	70.2	88.6	304.3	1710.3
0.0	60°	0.0	0.0	0.0	0.0	0.0	43.5	76.9	98.6	327.7	1523.1
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	36.8	92.0	123.7	341.1	1197.1
0.0	65°	0.0	0.0	0.0	0.0	0.0	30.1	108.7	135.4	351.1	953.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	28.4	112.0	137.1	356.1	759.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	30.1	110.3	147.1	372.8	616.9
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	33.4	100.3	162.2	372.8	546.7
0.0	75°	0.0	0.0	0.0	0.0	0.0	35.1	93.6	182.2	339.4	473.1
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	33.4	92.0	212.3	302.6	389.5
0.0	80°	3.3	5.0	5.0	3.3	3.3	28.4	90.3	215.7	257.5	267.5
1.7	82.5°	10.0	13.4	11.7	8.4	8.4	25.1	80.2	180.6	133.7	115.4
10.0	85°	18.4	21.7	21.7	18.4	18.4	23.4	50.2	65.2	45.1	36.8
18.4	87.5°	25.1	28.4	28.4	25.1	25.1	23.4	21.7	20.1	18.4	18.4
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: SP1-2407-184-15

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-935-U-5WQ

Data in this report applies to families of products including GSS-SB1A-935-U-5WQ

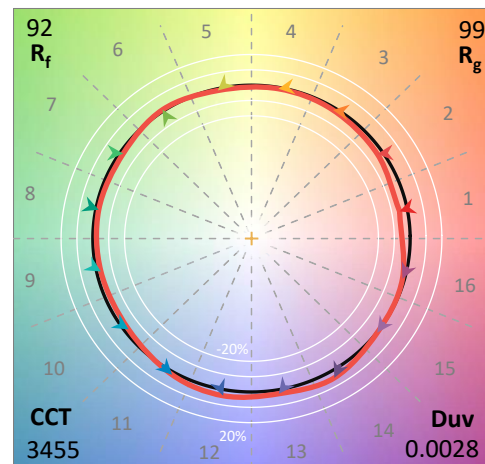
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-15
 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-935-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 3500K CCT 26 LEDS

Spectral Parameters

CCT (K): 3455
 CIE u' : 0.2356
 CIE v' : 0.5159
 Duv: 0.0028
 CIE x: 0.4109
 CIE y: 0.3999
 CIE z: 0.1892
 Peak Wavelength (nm): 616
 Dominant Wavelength (nm): 579
 Purity: 43.35383
 R_f: 92.3
 R_g: 98.5

CRI (Ra): 92.2
 R1: 92.0
 R2: 94.4
 R3: 95.6
 R4: 93.2
 R5: 91.4
 R6: 92.5
 R7: 94.5
 R8: 84.2
 R9: 59.8
 R10: 85.8
 R11: 93.2
 R12: 78.0
 R13: 92.5
 R14: 97.0
 R15: 88.4



Test Conditions

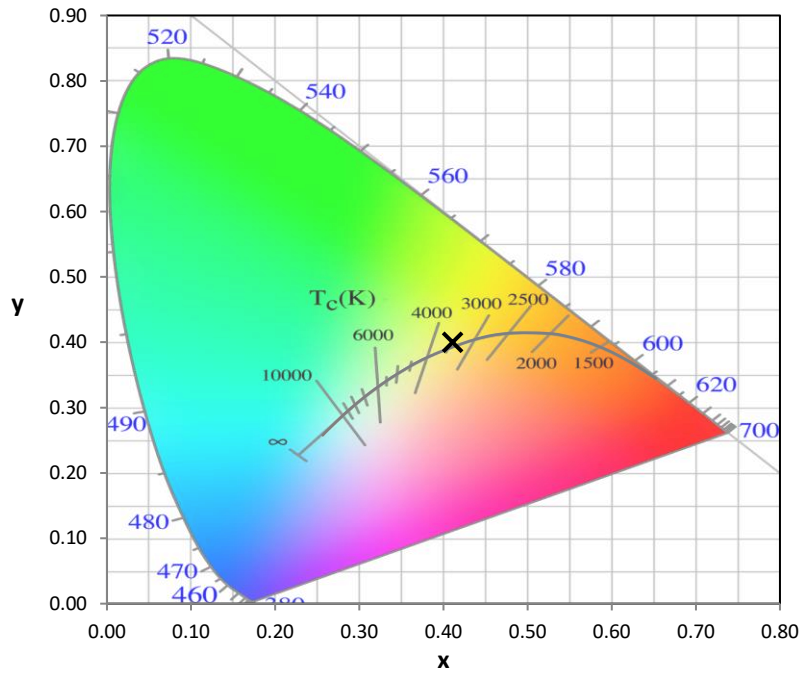
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-15

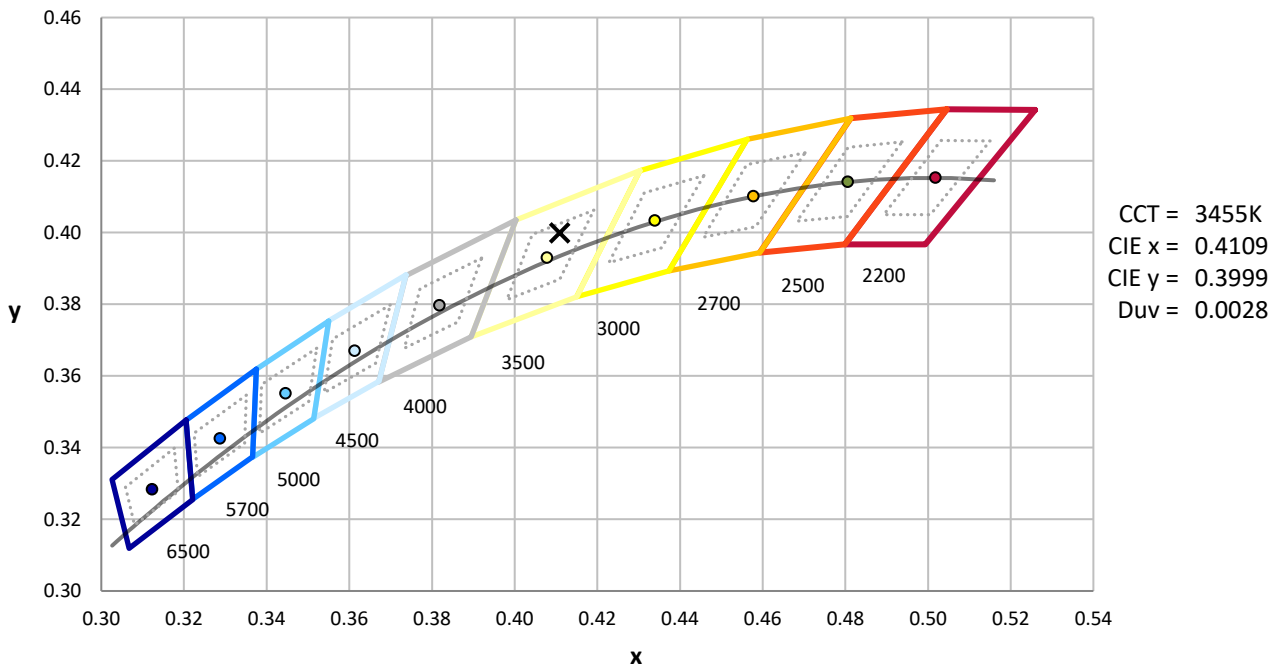
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-15

CIE 1931 Chromaticity Diagram



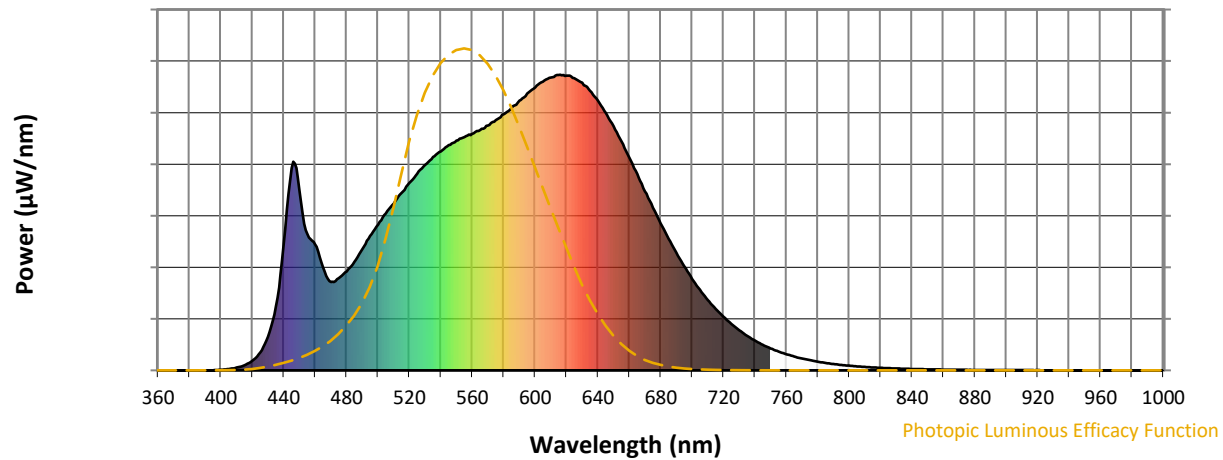
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-15

Photopic Flux vs. Wavelength

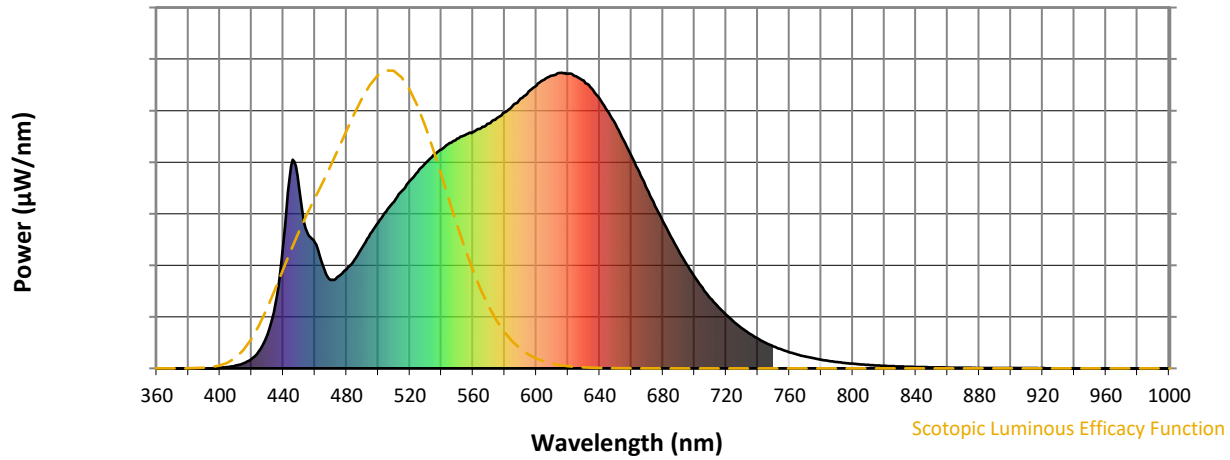


Photopic Lumens: NR

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	410	NR	620	997	NR	750	74	NR	880	1	NR
365	0	NR	495	454	NR	625	988	NR	755	64	NR	885	1	NR
370	0	NR	500	493	NR	630	973	NR	760	54	NR	890	1	NR
375	0	NR	505	530	NR	635	946	NR	765	47	NR	895	1	NR
380	0	NR	510	564	NR	640	913	NR	770	40	NR	900	1	NR
385	0	NR	515	599	NR	645	870	NR	775	34	NR	905	1	NR
390	0	NR	520	634	NR	650	826	NR	780	29	NR	910	1	NR
395	0	NR	525	664	NR	655	774	NR	785	25	NR	915	1	NR
400	2	NR	530	695	NR	660	720	NR	790	21	NR	920	1	NR
405	4	NR	535	722	NR	665	664	NR	795	18	NR	925	1	NR
410	9	NR	540	741	NR	670	605	NR	800	16	NR	930	0	NR
415	17	NR	545	762	NR	675	550	NR	805	13	NR	935	0	NR
420	32	NR	550	777	NR	680	497	NR	810	12	NR	940	0	NR
425	61	NR	555	789	NR	685	445	NR	815	10	NR	945	0	NR
430	114	NR	560	800	NR	690	398	NR	820	9	NR	950	0	NR
435	218	NR	565	813	NR	695	352	NR	825	7	NR	955	0	NR
440	427	NR	570	828	NR	700	309	NR	830	6	NR	960	0	NR
445	684	NR	575	846	NR	705	273	NR	835	5	NR	965	0	NR
450	611	NR	580	866	NR	710	237	NR	840	5	NR	970	0	NR
455	461	NR	585	888	NR	715	208	NR	845	4	NR	975	0	NR
460	427	NR	590	913	NR	720	181	NR	850	4	NR	980	0	NR
465	349	NR	595	936	NR	725	157	NR	855	3	NR	985	0	NR
470	298	NR	600	957	NR	730	136	NR	860	3	NR	990	1	NR
475	312	NR	605	976	NR	735	117	NR	865	2	NR	995	0	NR
480	335	NR	610	990	NR	740	100	NR	870	2	NR	1000	0	NR
485	367	NR	615	999	NR	745	86	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-15

Scotopic Flux vs. Wavelength



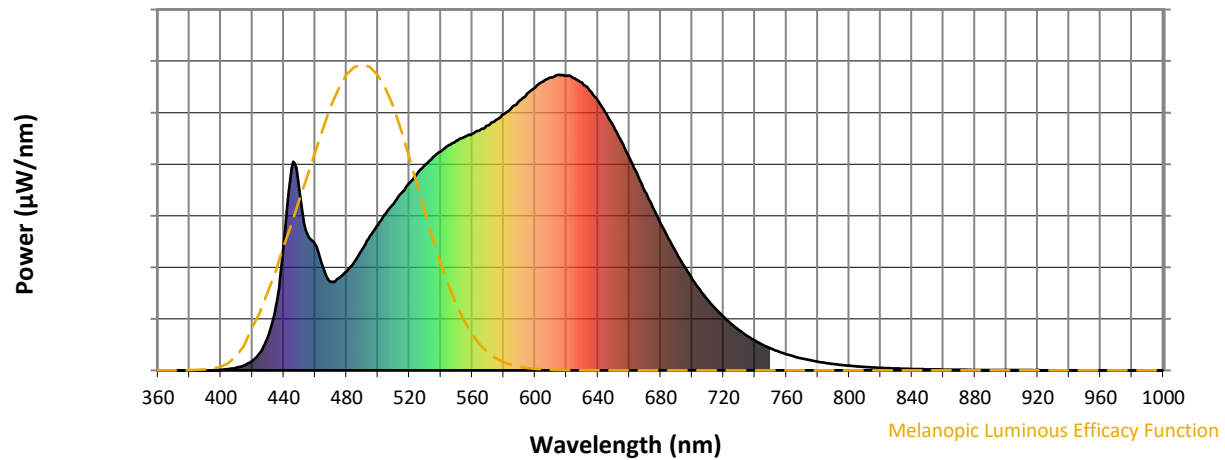
Scotopic Lumens: NR

S/P: 1.58

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	410	NR	620	997	NR	750	74	NR	880	1	NR
365	0	NR	495	454	NR	625	988	NR	755	64	NR	885	1	NR
370	0	NR	500	493	NR	630	973	NR	760	54	NR	890	1	NR
375	0	NR	505	530	NR	635	946	NR	765	47	NR	895	1	NR
380	0	NR	510	564	NR	640	913	NR	770	40	NR	900	1	NR
385	0	NR	515	599	NR	645	870	NR	775	34	NR	905	1	NR
390	0	NR	520	634	NR	650	826	NR	780	29	NR	910	1	NR
395	0	NR	525	664	NR	655	774	NR	785	25	NR	915	1	NR
400	2	NR	530	695	NR	660	720	NR	790	21	NR	920	1	NR
405	4	NR	535	722	NR	665	664	NR	795	18	NR	925	1	NR
410	9	NR	540	741	NR	670	605	NR	800	16	NR	930	0	NR
415	17	NR	545	762	NR	675	550	NR	805	13	NR	935	0	NR
420	32	NR	550	777	NR	680	497	NR	810	12	NR	940	0	NR
425	61	NR	555	789	NR	685	445	NR	815	10	NR	945	0	NR
430	114	NR	560	800	NR	690	398	NR	820	9	NR	950	0	NR
435	218	NR	565	813	NR	695	352	NR	825	7	NR	955	0	NR
440	427	NR	570	828	NR	700	309	NR	830	6	NR	960	0	NR
445	684	NR	575	846	NR	705	273	NR	835	5	NR	965	0	NR
450	611	NR	580	866	NR	710	237	NR	840	5	NR	970	0	NR
455	461	NR	585	888	NR	715	208	NR	845	4	NR	975	0	NR
460	427	NR	590	913	NR	720	181	NR	850	4	NR	980	0	NR
465	349	NR	595	936	NR	725	157	NR	855	3	NR	985	0	NR
470	298	NR	600	957	NR	730	136	NR	860	3	NR	990	1	NR
475	312	NR	605	976	NR	735	117	NR	865	2	NR	995	0	NR
480	335	NR	610	990	NR	740	100	NR	870	2	NR	1000	0	NR
485	367	NR	615	999	NR	745	86	NR	875	2	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.14

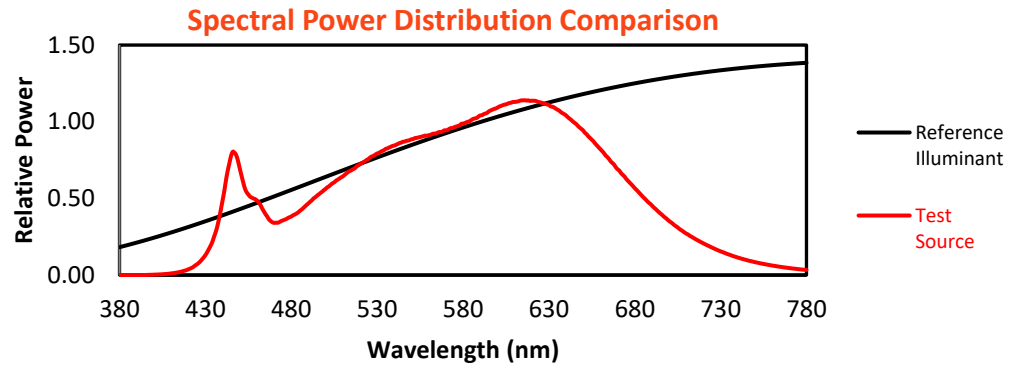
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	410	NR	620	997	NR	750	74	NR	880	1	NR
365	0	NR	495	454	NR	625	988	NR	755	64	NR	885	1	NR
370	0	NR	500	493	NR	630	973	NR	760	54	NR	890	1	NR
375	0	NR	505	530	NR	635	946	NR	765	47	NR	895	1	NR
380	0	NR	510	564	NR	640	913	NR	770	40	NR	900	1	NR
385	0	NR	515	599	NR	645	870	NR	775	34	NR	905	1	NR
390	0	NR	520	634	NR	650	826	NR	780	29	NR	910	1	NR
395	0	NR	525	664	NR	655	774	NR	785	25	NR	915	1	NR
400	2	NR	530	695	NR	660	720	NR	790	21	NR	920	1	NR
405	4	NR	535	722	NR	665	664	NR	795	18	NR	925	1	NR
410	9	NR	540	741	NR	670	605	NR	800	16	NR	930	0	NR
415	17	NR	545	762	NR	675	550	NR	805	13	NR	935	0	NR
420	32	NR	550	777	NR	680	497	NR	810	12	NR	940	0	NR
425	61	NR	555	789	NR	685	445	NR	815	10	NR	945	0	NR
430	114	NR	560	800	NR	690	398	NR	820	9	NR	950	0	NR
435	218	NR	565	813	NR	695	352	NR	825	7	NR	955	0	NR
440	427	NR	570	828	NR	700	309	NR	830	6	NR	960	0	NR
445	684	NR	575	846	NR	705	273	NR	835	5	NR	965	0	NR
450	611	NR	580	866	NR	710	237	NR	840	5	NR	970	0	NR
455	461	NR	585	888	NR	715	208	NR	845	4	NR	975	0	NR
460	427	NR	590	913	NR	720	181	NR	850	4	NR	980	0	NR
465	349	NR	595	936	NR	725	157	NR	855	3	NR	985	0	NR
470	298	NR	600	957	NR	730	136	NR	860	3	NR	990	1	NR
475	312	NR	605	976	NR	735	117	NR	865	2	NR	995	0	NR
480	335	NR	610	990	NR	740	100	NR	870	2	NR	1000	0	NR
485	367	NR	615	999	NR	745	86	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-15

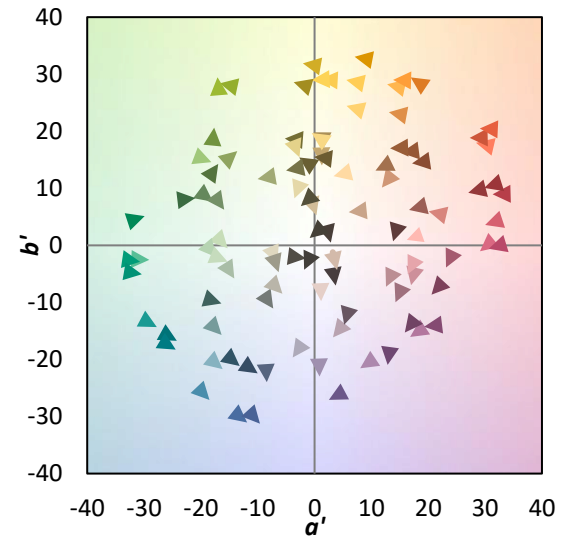
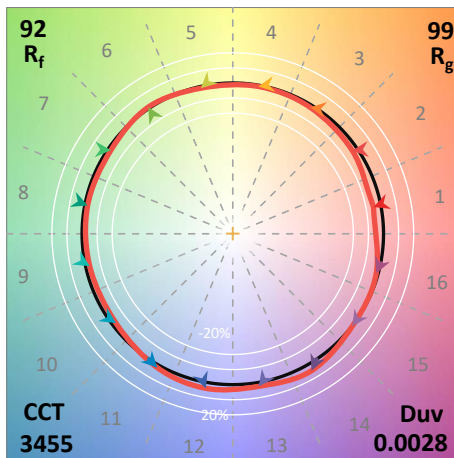
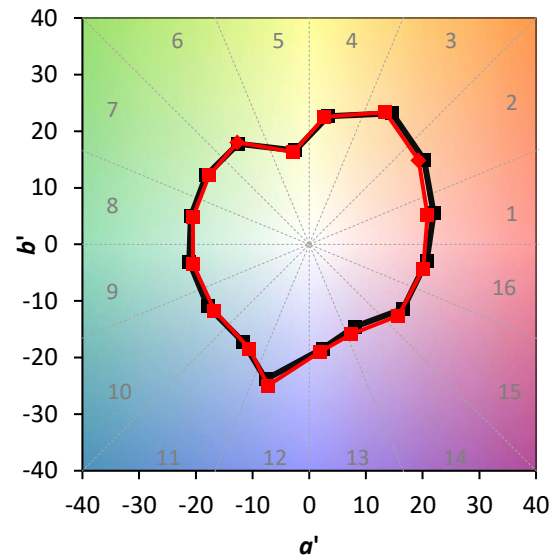
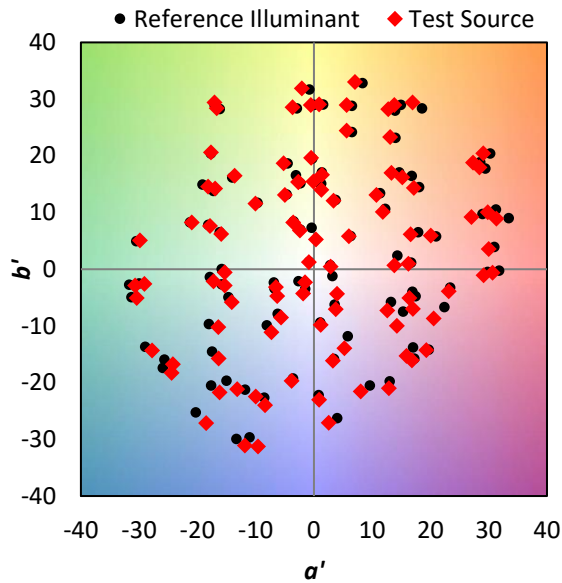
TM-30-18

Summary

$R_f = 92.3$
 $R_g = 98.5$
 $CIE R_a = 92.2$
 $R_9 = 59.8$

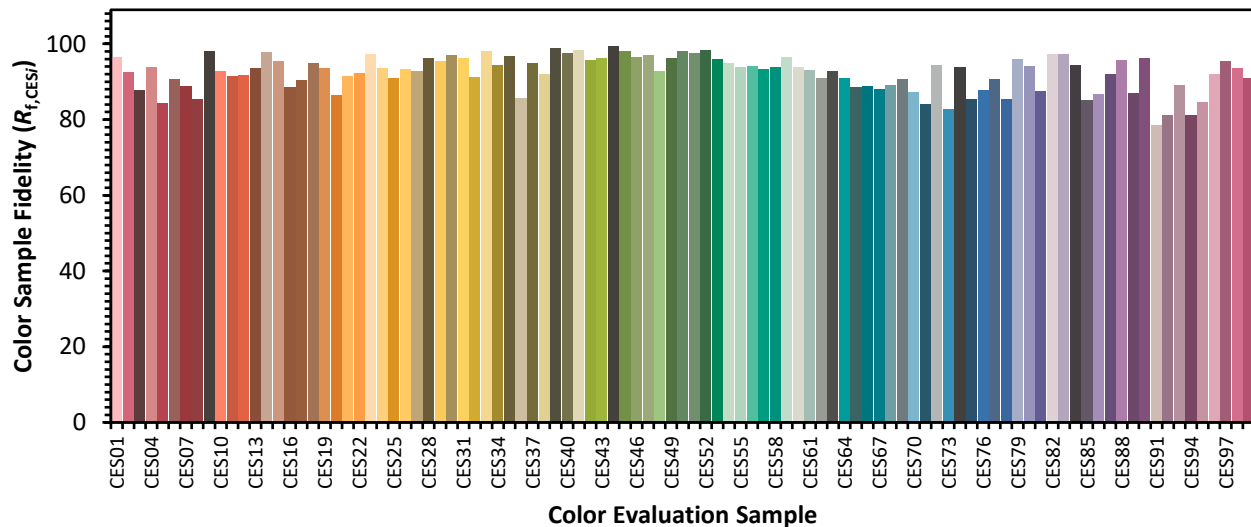


Color Vector Graphics

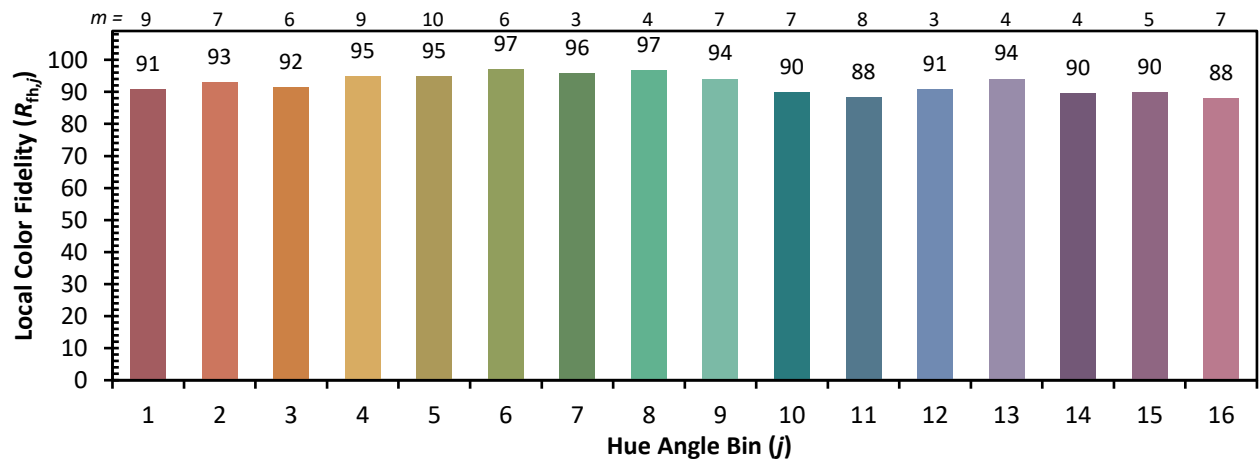
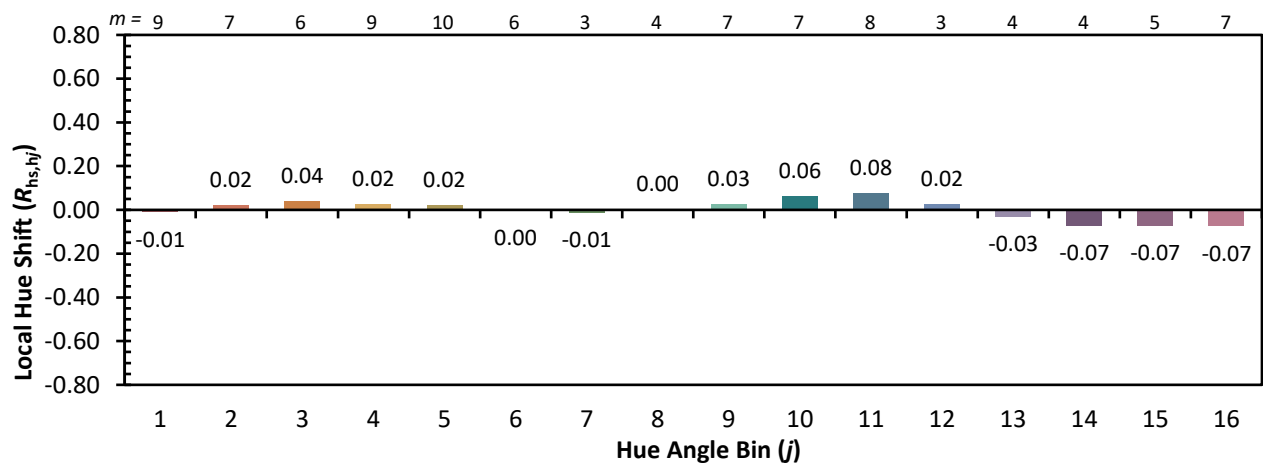
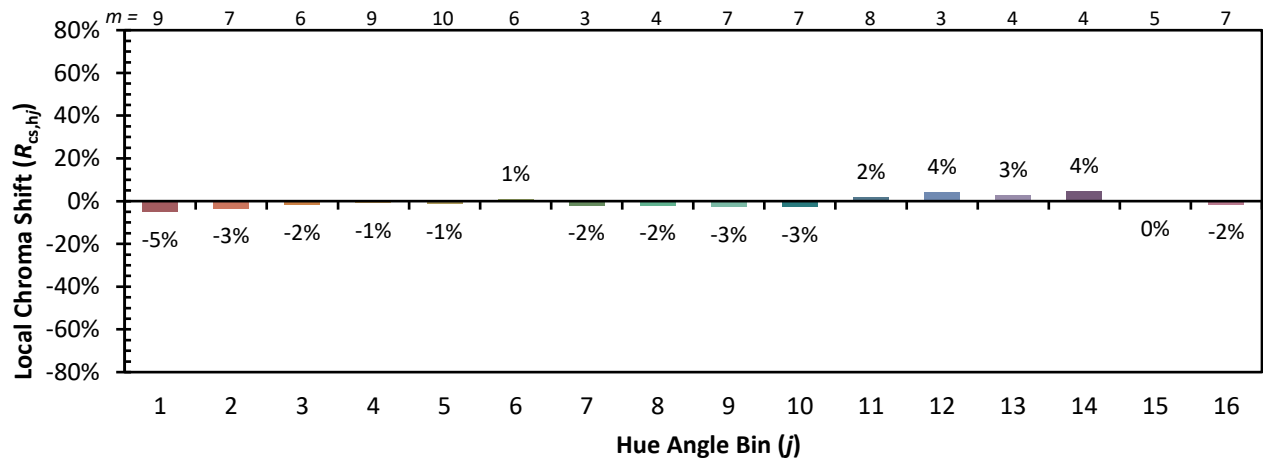


Individual Sample Fidelity Index ($R_{f,i}$)

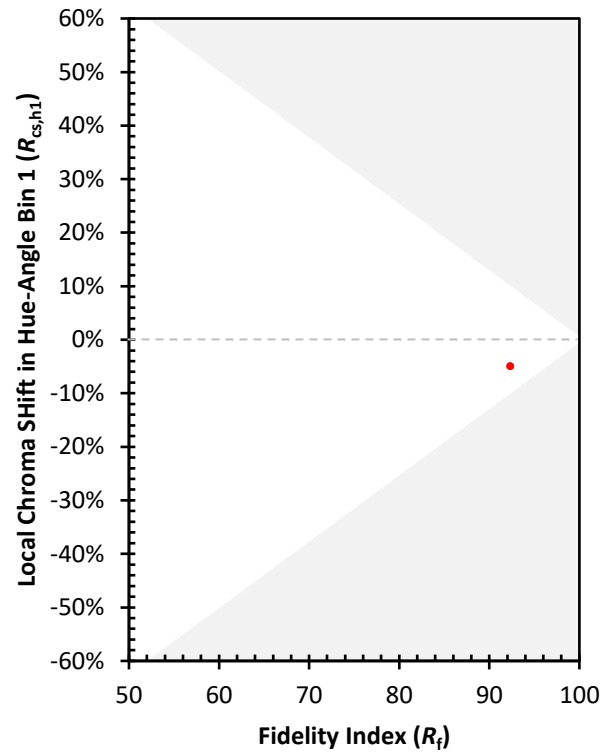
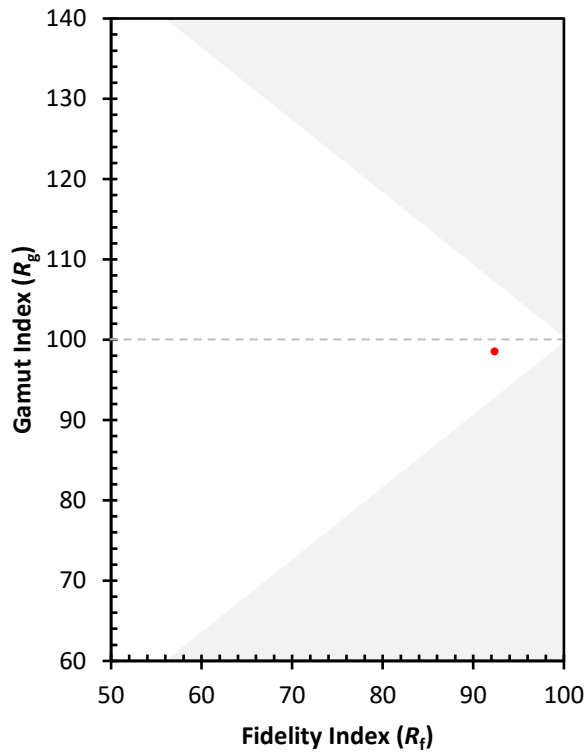
CES01 = 86	CES26 = 93	CES51 = 97	CES76 = 88
CES02 = 62	CES27 = 93	CES52 = 98	CES77 = 91
CES03 = 31	CES28 = 96	CES53 = 96	CES78 = 85
CES04 = 70	CES29 = 95	CES54 = 95	CES79 = 96
CES05 = 50	CES30 = 97	CES55 = 94	CES80 = 94
CES06 = 51	CES31 = 96	CES56 = 94	CES81 = 87
CES07 = 42	CES32 = 91	CES57 = 93	CES82 = 97
CES08 = 41	CES33 = 98	CES58 = 94	CES83 = 97
CES09 = 29	CES34 = 94	CES59 = 96	CES84 = 94
CES10 = 75	CES35 = 97	CES60 = 94	CES85 = 85
CES11 = 58	CES36 = 86	CES61 = 93	CES86 = 87
CES12 = 64	CES37 = 95	CES62 = 91	CES87 = 92
CES13 = 43	CES38 = 92	CES63 = 93	CES88 = 96
CES14 = 74	CES39 = 99	CES64 = 91	CES89 = 87
CES15 = 71	CES40 = 98	CES65 = 89	CES90 = 96
CES16 = 47	CES41 = 98	CES66 = 89	CES91 = 78
CES17 = 49	CES42 = 96	CES67 = 88	CES92 = 81
CES18 = 56	CES43 = 96	CES68 = 89	CES93 = 89
CES19 = 71	CES44 = 99	CES69 = 91	CES94 = 81
CES20 = 66	CES45 = 98	CES70 = 87	CES95 = 85
CES21 = 86	CES46 = 97	CES71 = 84	CES96 = 92
CES22 = 78	CES47 = 97	CES72 = 95	CES97 = 95
CES23 = 91	CES48 = 93	CES73 = 83	CES98 = 94
CES24 = 90	CES49 = 96	CES74 = 94	CES99 = 91
CES25 = 71	CES50 = 98	CES75 = 85	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)