

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: P1049993

Luminaire Tested: **GALN-SA8A-935-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049993
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-935-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 8xLight Square PACKAGE
90CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (112) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19066.3 lumens
Efficiency: N/A
Efficacy: 87.6 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

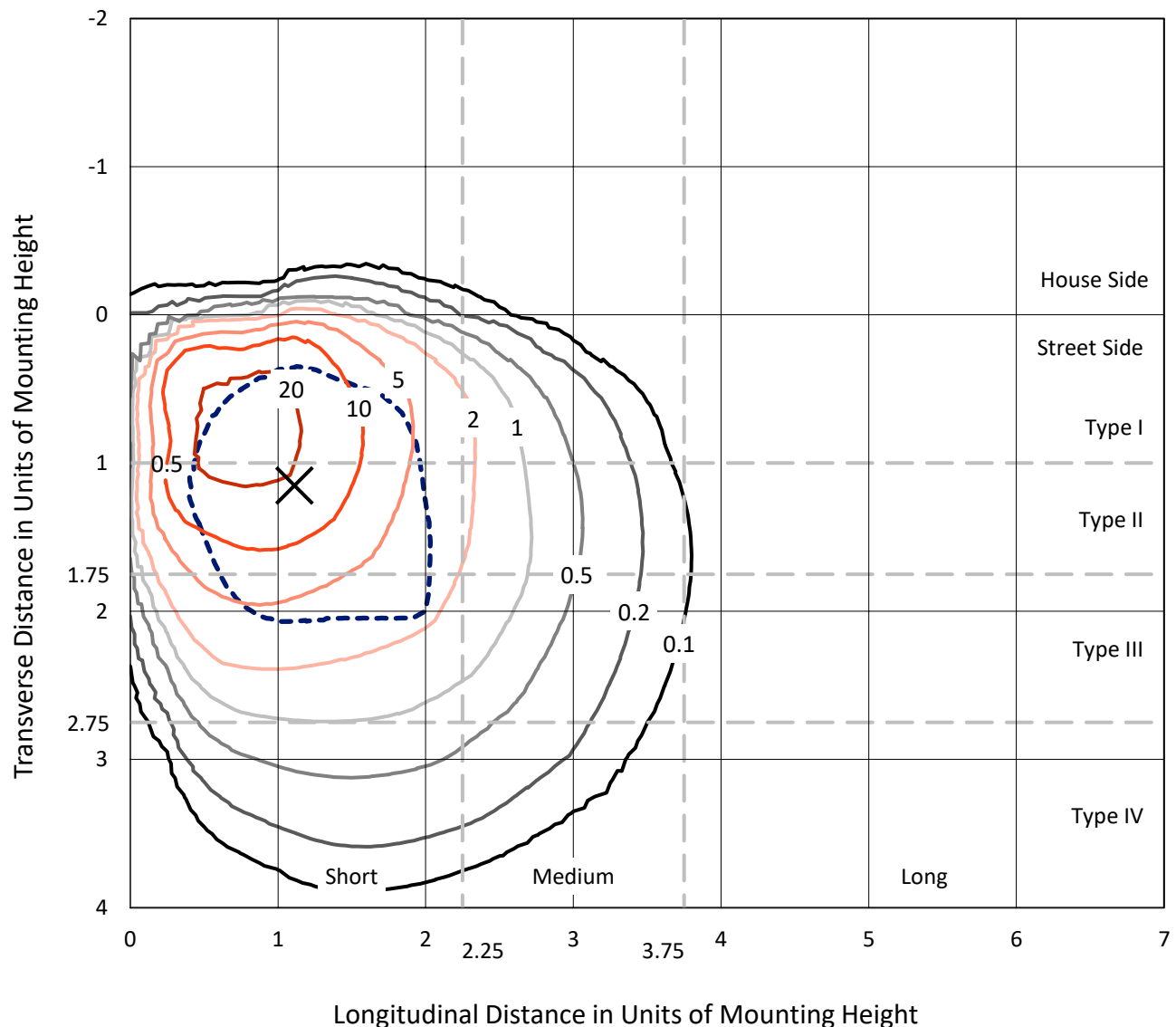
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

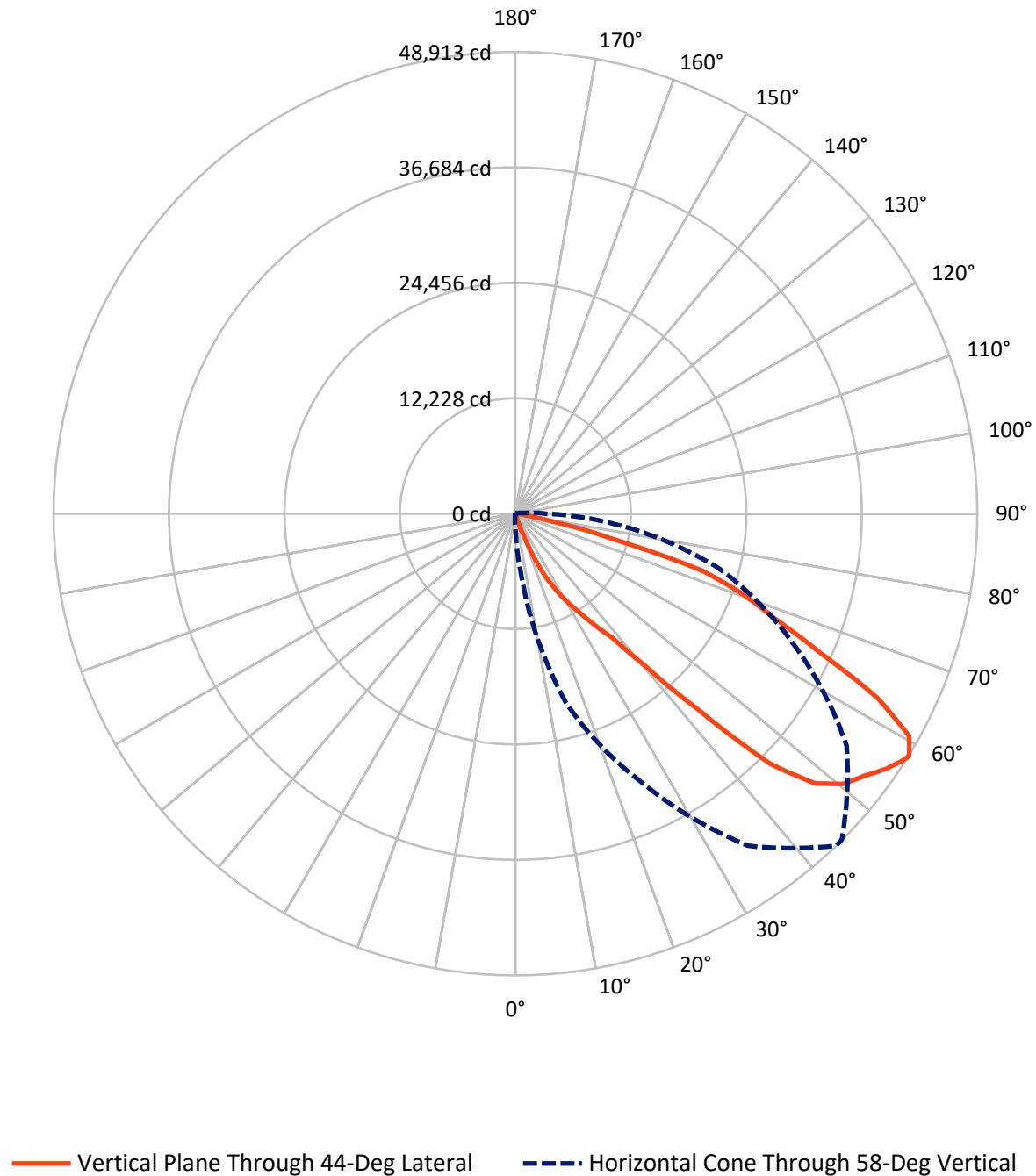
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 33.2 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	130.2	0.0	130.2
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	18936.2	0.0	18936.2
	% Fixture	99.3	0.0	99.3
Total	Lumens	19066.3	0.0	19066.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.5	0.0
10°-20°	41.8	0.2
20°-30°	451.7	2.4
30°-40°	1335.8	7.0
40°-50°	3981.4	20.9
50°-60°	6317.4	33.1
60°-70°	5269.5	27.6
70°-80°	1625.2	8.5
80°-90°	36.1	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°	19066.3	100.0
0°-180°	19066.3	100.0

Coefficient of Utilization



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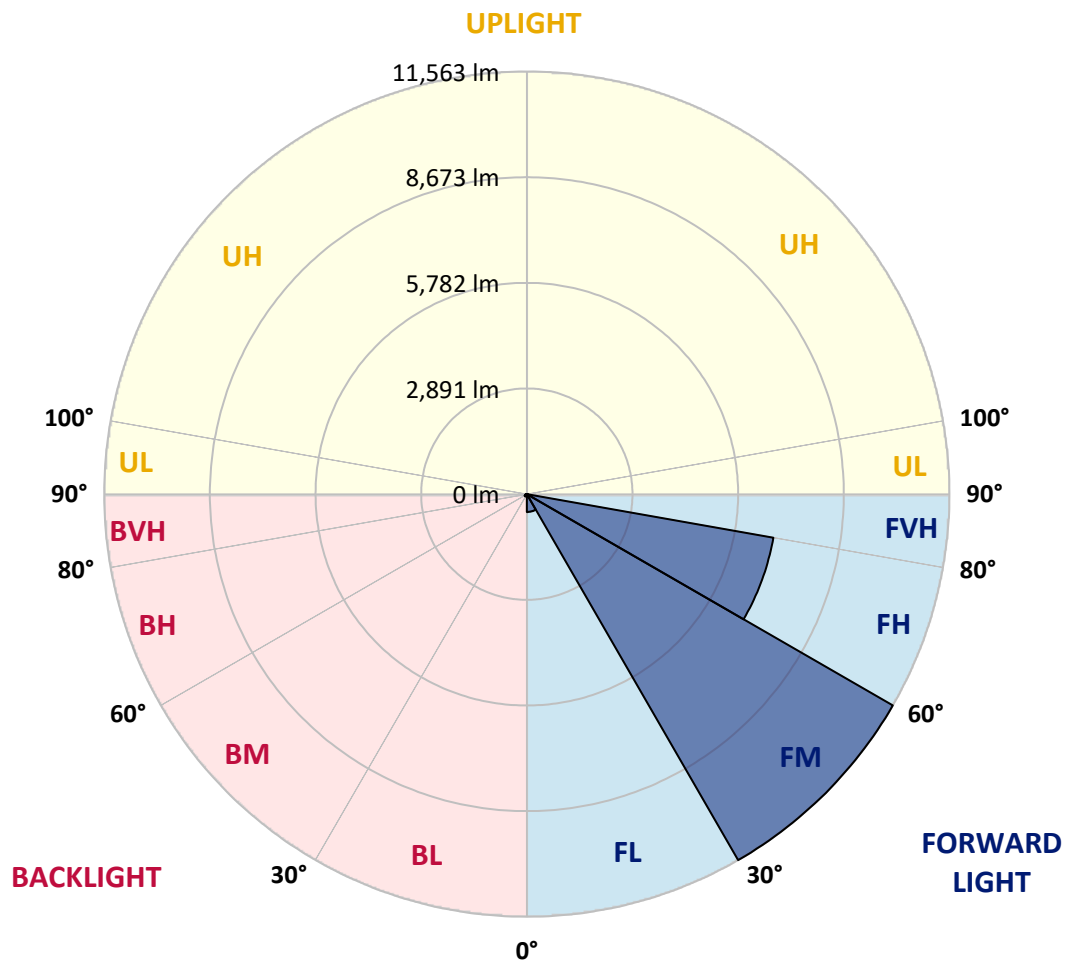
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	488.2	2.6			
FM	(30°-60°)	11563.3	60.6			
FH	(60°-80°)	6850.3	35.9			G3/7500
FVH	(80°-90°)	34.3	0.2			G1/100
BL	(0°-30°)	12.7	0.1	B0/110		
BM	(30°-60°)	71.3	0.4	B0/220		
BH	(60°-80°)	44.4	0.2	B0/110		G0/110
BVH	(80°-90°)	1.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
2.5°	108.0	108.0	103.7	97.9	92.2	86.4	85.0	82.1	80.7	79.2
5°	112.3	112.3	110.9	106.6	100.8	96.5	96.5	92.2	89.3	86.4
7.5°	115.2	116.7	119.5	118.1	115.2	110.9	110.9	108.0	103.7	96.5
10°	119.5	123.9	129.6	132.5	133.9	133.9	132.5	131.1	123.9	113.8
12.5°	123.9	132.5	146.9	161.3	170.0	181.5	180.0	177.2	158.4	136.8
15°	132.5	145.5	175.7	217.5	282.3	322.6	338.5	324.1	262.1	184.4
17.5°	142.6	164.2	254.9	455.1	746.1	884.3	967.9	900.2	596.3	350.0
20°	152.7	200.2	473.9	1179.6	1935.8	2388.0	2513.3	2317.4	1487.8	666.9
22.5°	170.0	280.9	960.7	2438.4	4171.1	4849.5	4977.7	4351.1	2810.0	1316.4
25°	206.0	407.6	1656.3	3973.8	6225.0	7370.0	7316.7	6495.8	4558.6	2102.8
27.5°	257.8	593.4	2504.7	5646.0	8192.4	9202.1	9323.1	8307.7	6076.6	3092.3
30°	332.7	822.4	3415.0	6985.5	9769.6	10861.3	10881.5	9831.5	7434.8	3960.8
32.5°	404.7	1038.5	4211.4	8280.3	11323.6	12520.5	12609.8	11317.9	8448.8	4865.3
35°	459.5	1179.6	5018.0	9418.1	12890.7	14539.8	14534.1	13000.1	9650.0	5673.3
37.5°	463.8	1320.8	5748.2	10581.9	14875.4	16721.9	16904.8	15213.9	11101.8	6672.9
40°	453.7	1479.2	6672.9	12396.7	18451.7	21284.8	21446.1	19314.4	14014.1	8384.0
42.5°	465.2	1754.3	8173.7	15748.2	24390.0	28458.9	28770.0	26528.9	19367.7	11875.3
45°	525.7	2271.4	11317.9	21355.3	32854.7	37815.1	37711.4	34483.7	25597.0	17190.0
47.5°	725.9	3537.4	15978.7	26812.6	38264.5	42681.9	42771.2	38826.2	29232.3	21276.1
50°	1116.2	5412.6	19894.9	29697.5	40590.5	45022.3	44938.8	40380.3	30613.6	23288.2
52.5°	1451.8	6769.4	21859.4	30710.1	40888.7	46178.9	46173.1	40789.3	30828.2	23461.0
55°	1535.4	6871.7	21875.3	30764.8	41557.0	47692.7	47882.8	41796.1	31106.2	22706.3
57.5°	1502.2	6083.8	20962.1	31081.7	42746.7	48863.6	48873.7	42771.2	31811.9	22244.0
58°	1473.4	5960.0	20777.8	31261.7	42951.2	48912.6	48888.1	42815.8	32386.6	22226.7
60°	1312.1	5175.0	20059.1	31721.2	42647.3	47907.3	47678.3	41840.7	32301.6	22049.6
62.5°	1031.3	4037.2	19351.9	31189.7	39389.3	43040.5	43135.6	37043.1	29446.9	21016.9
65°	821.0	3008.8	17877.0	27358.5	32435.6	35345.0	35699.3	30122.4	24578.7	17796.3
67.5°	653.9	2174.9	14996.4	21781.7	25666.1	29498.8	29756.6	25290.2	19042.2	13635.3
70°	531.5	1470.5	10351.4	15929.7	21169.5	25478.9	25494.8	21009.7	14212.9	8934.2
72.5°	471.0	1018.3	6008.9	11617.5	17165.5	20761.9	20342.8	17048.8	10923.2	5291.7
75°	407.6	675.5	2946.9	7102.1	10407.6	10478.2	10638.1	7908.7	5460.2	2516.2
77.5°	335.6	479.6	1160.9	1940.1	3121.1	3995.4	4143.7	3139.9	1816.2	619.3
80°	230.4	227.6	312.5	594.8	893.0	1119.1	1044.2	808.0	475.3	237.6
82.5°	99.4	108.0	141.1	170.0	138.3	133.9	128.2	82.1	63.4	49.0
85°	31.7	28.8	30.2	30.2	24.5	18.7	18.7	8.6	0.0	0.0
87.5°	15.8	13.0	13.0	11.5	7.2	2.9	1.4	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°
83.5	0°	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
77.8	2.5°	76.3	76.3	73.5	70.6	69.1	66.3	64.8	63.4	61.9	60.5
83.5	5°	80.7	79.2	74.9	70.6	66.3	61.9	59.1	56.2	53.3	51.9
92.2	7.5°	87.9	85.0	76.3	69.1	63.4	57.6	54.7	50.4	47.5	43.2
102.3	10°	96.5	90.7	79.2	70.6	61.9	54.7	50.4	46.1	41.8	36.0
116.7	12.5°	108.0	97.9	83.5	69.1	59.1	50.4	46.1	40.3	36.0	31.7
135.4	15°	118.1	105.1	85.0	69.1	56.2	46.1	40.3	34.6	30.2	24.5
170.0	17.5°	132.5	110.9	83.5	64.8	51.9	40.3	34.6	30.2	23.0	14.4
252.1	20°	157.0	115.2	80.7	60.5	44.6	33.1	25.9	20.2	10.1	2.9
378.8	22.5°	195.9	126.7	77.8	54.7	38.9	25.9	17.3	7.2	0.0	0.0
576.1	25°	270.8	146.9	77.8	51.9	34.6	18.7	5.8	0.0	0.0	0.0
818.1	27.5°	360.1	174.3	77.8	44.6	27.4	10.1	0.0	0.0	0.0	0.0
1114.8	30°	450.8	204.5	77.8	38.9	21.6	1.4	0.0	0.0	0.0	0.0
1372.6	32.5°	537.2	230.4	79.2	33.1	14.4	0.0	0.0	0.0	0.0	0.0
1729.8	35°	625.1	234.8	77.8	28.8	8.6	0.0	0.0	0.0	0.0	0.0
2167.7	37.5°	737.4	226.1	73.5	25.9	4.3	0.0	0.0	0.0	0.0	0.0
2851.8	40°	907.4	230.4	69.1	24.5	1.4	0.0	0.0	0.0	0.0	0.0
4071.7	42.5°	1221.4	249.2	63.4	24.5	0.0	0.0	0.0	0.0	0.0	0.0
6485.7	45°	2111.5	334.1	57.6	25.9	0.0	0.0	0.0	0.0	0.0	0.0
9736.4	47.5°	3492.7	600.6	56.2	25.9	0.0	0.0	0.0	0.0	0.0	0.0
11728.4	50°	4457.7	756.2	59.1	27.4	0.0	0.0	0.0	0.0	0.0	0.0
11977.5	52.5°	4450.5	842.6	61.9	28.8	5.8	0.0	0.0	0.0	0.0	0.0
11039.9	55°	3956.5	858.4	66.3	31.7	18.7	0.0	0.0	0.0	0.0	0.0
9487.3	57.5°	3306.9	783.5	76.3	38.9	34.6	0.0	0.0	0.0	0.0	0.0
9243.8	58°	3191.7	749.0	79.2	40.3	37.4	0.0	0.0	0.0	0.0	0.0
8018.2	60°	2615.6	610.7	100.8	50.4	50.4	0.0	0.0	0.0	0.0	0.0
6573.5	62.5°	1806.1	532.9	115.2	64.8	51.9	0.0	0.0	0.0	0.0	0.0
4846.6	65°	1277.5	481.1	125.3	69.1	41.8	0.0	0.0	0.0	0.0	0.0
3443.8	67.5°	954.9	443.6	138.3	70.6	21.6	0.0	0.0	0.0	0.0	0.0
2160.5	70°	731.7	416.2	170.0	74.9	5.8	0.0	0.0	0.0	0.0	0.0
1287.6	72.5°	596.3	384.6	206.0	77.8	0.0	0.0	0.0	0.0	0.0	0.0
772.0	75°	494.0	347.1	198.8	85.0	0.0	0.0	0.0	0.0	0.0	0.0
411.9	77.5°	328.4	269.3	181.5	85.0	0.0	0.0	0.0	0.0	0.0	0.0
146.9	80°	115.2	106.6	141.1	74.9	0.0	0.0	0.0	0.0	0.0	0.0
30.2	82.5°	17.3	14.4	20.2	25.9	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
83.5	0°	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
59.1	2.5°	59.1	59.1	57.6	59.1	59.1	61.9	69.1	79.2	90.7	95.1
50.4	5°	49.0	47.5	46.1	46.1	46.1	50.4	56.2	67.7	80.7	86.4
41.8	7.5°	40.3	38.9	37.4	36.0	36.0	38.9	46.1	59.1	72.0	77.8
34.6	10°	33.1	30.2	28.8	27.4	27.4	30.2	37.4	50.4	64.8	70.6
28.8	12.5°	27.4	23.0	20.2	18.7	17.3	21.6	28.8	40.3	56.2	63.4
21.6	15°	18.7	14.4	10.1	8.6	7.2	11.5	18.7	31.7	47.5	56.2
11.5	17.5°	10.1	4.3	1.4	0.0	0.0	2.9	8.6	23.0	38.9	46.1
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	28.8	36.0
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	17.3	24.5
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	13.0
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9
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	4.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	11.5
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°
83.5	0°	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
99.4	2.5°	102.3	100.8	97.9	95.1	95.1	95.1	99.4	103.7	108.0	108.0
89.3	5°	95.1	95.1	93.6	90.7	90.7	92.2	97.9	105.1	110.9	112.3
82.1	7.5°	87.9	90.7	87.9	86.4	87.9	89.3	95.1	103.7	112.3	115.2
76.3	10°	83.5	85.0	85.0	83.5	83.5	86.4	92.2	103.7	115.2	119.5
69.1	12.5°	77.8	80.7	79.2	79.2	79.2	82.1	89.3	102.3	118.1	123.9
61.9	15°	72.0	76.3	76.3	74.9	74.9	76.3	86.4	100.8	122.4	132.5
53.3	17.5°	66.3	70.6	72.0	69.1	69.1	72.0	82.1	100.8	125.3	142.6
43.2	20°	54.7	61.9	66.3	61.9	61.9	64.8	74.9	95.1	126.7	152.7
31.7	22.5°	43.2	50.4	56.2	54.7	54.7	56.2	69.1	90.7	128.2	170.0
18.7	25°	31.7	38.9	43.2	46.1	46.1	50.4	63.4	87.9	133.9	206.0
8.6	27.5°	18.7	27.4	33.1	36.0	37.4	43.2	59.1	85.0	144.0	257.8
0.0	30°	8.6	15.8	23.0	28.8	28.8	38.9	54.7	82.1	157.0	332.7
0.0	32.5°	0.0	7.2	11.5	20.2	21.6	31.7	50.4	79.2	175.7	404.7
0.0	35°	0.0	0.0	5.8	15.8	15.8	25.9	46.1	76.3	204.5	459.5
0.0	37.5°	0.0	0.0	0.0	11.5	13.0	23.0	44.6	74.9	210.3	463.8
0.0	40°	0.0	0.0	0.0	8.6	10.1	21.6	44.6	76.3	190.1	453.7
0.0	42.5°	0.0	0.0	0.0	5.8	7.2	21.6	44.6	79.2	171.4	465.2
0.0	45°	0.0	0.0	0.0	4.3	5.8	23.0	43.2	77.8	161.3	525.7
0.0	47.5°	0.0	0.0	0.0	5.8	8.6	23.0	41.8	76.3	162.8	725.9
0.0	50°	0.0	0.0	0.0	7.2	10.1	23.0	43.2	73.5	178.6	1116.2
0.0	52.5°	0.0	0.0	0.0	5.8	8.6	25.9	47.5	72.0	194.4	1451.8
0.0	55°	0.0	0.0	0.0	1.4	4.3	33.1	51.9	72.0	218.9	1535.4
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	37.4	59.1	76.3	259.3	1502.2
0.0	58°	0.0	0.0	0.0	0.0	0.0	37.4	60.5	76.3	262.1	1473.4
0.0	60°	0.0	0.0	0.0	0.0	0.0	37.4	66.3	85.0	282.3	1312.1
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	31.7	79.2	106.6	293.8	1031.3
0.0	65°	0.0	0.0	0.0	0.0	0.0	25.9	93.6	116.7	302.5	821.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	24.5	96.5	118.1	306.8	653.9
0.0	70°	0.0	0.0	0.0	0.0	0.0	25.9	95.1	126.7	321.2	531.5
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	28.8	86.4	139.7	321.2	471.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	30.2	80.7	157.0	292.4	407.6
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	28.8	79.2	182.9	260.7	335.6
0.0	80°	2.9	4.3	4.3	2.9	2.9	24.5	77.8	185.8	221.8	230.4
1.4	82.5°	8.6	11.5	10.1	7.2	7.2	21.6	69.1	155.6	115.2	99.4
8.6	85°	15.8	18.7	18.7	15.8	15.8	20.2	43.2	56.2	38.9	31.7
15.8	87.5°	21.6	24.5	24.5	21.6	21.6	20.2	18.7	17.3	15.8	15.8
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

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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

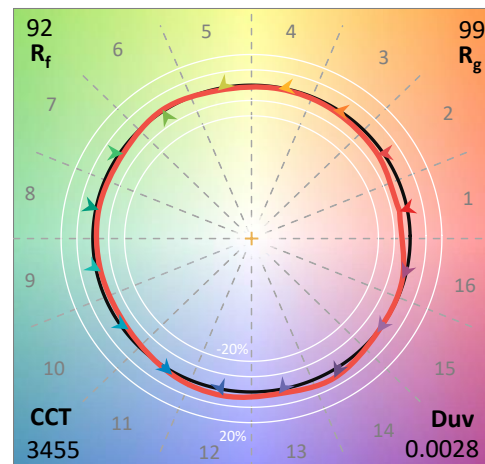
Test Information

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

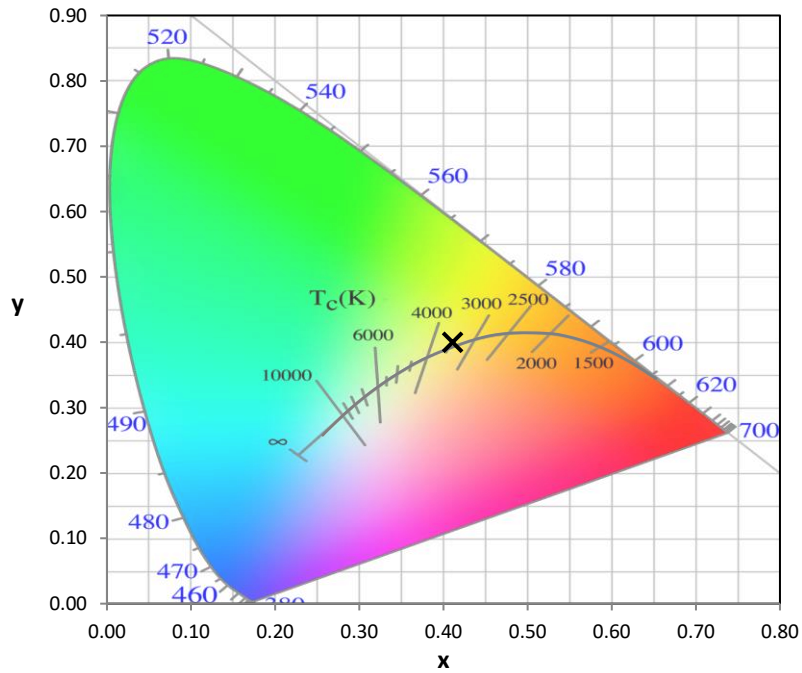
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-15

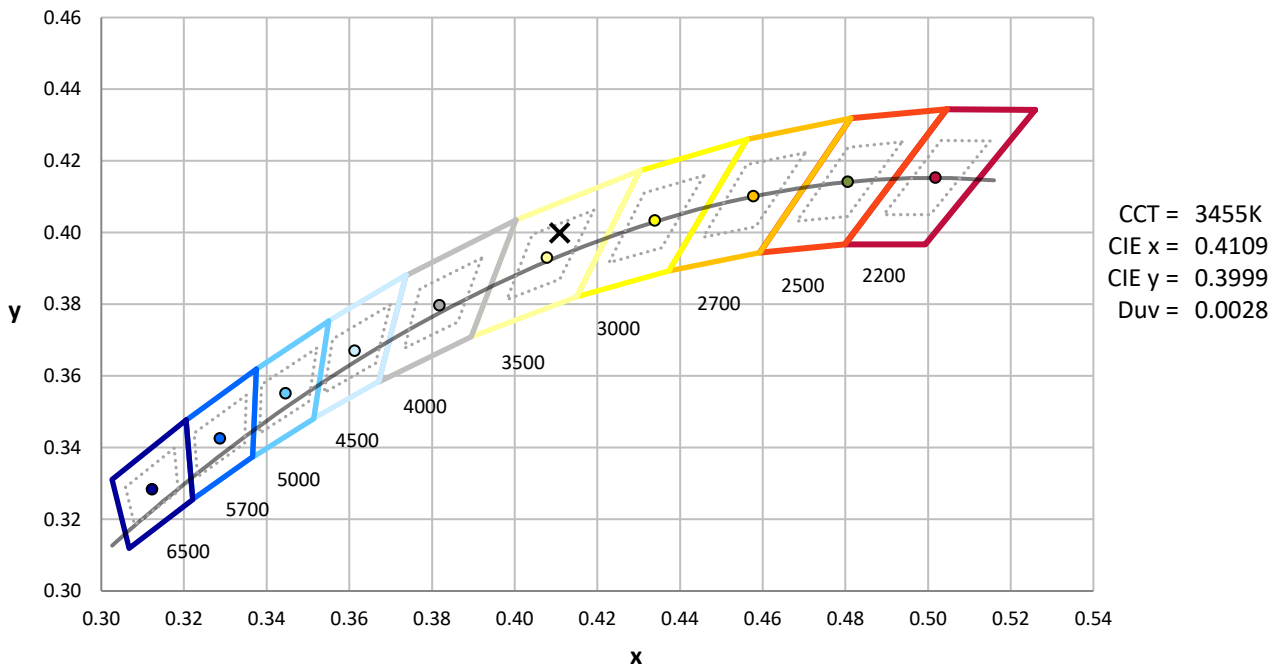
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



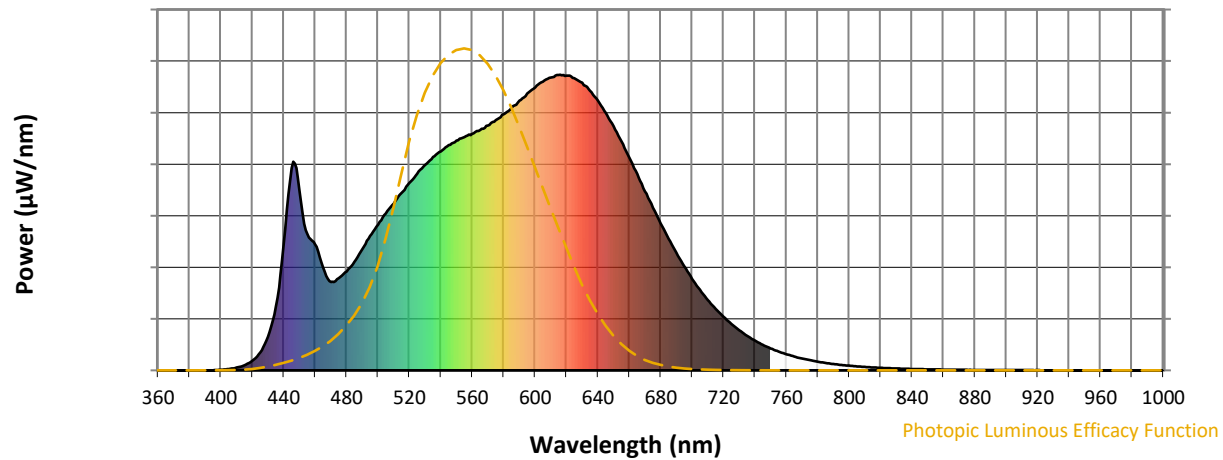
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

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Photopic Flux vs. Wavelength

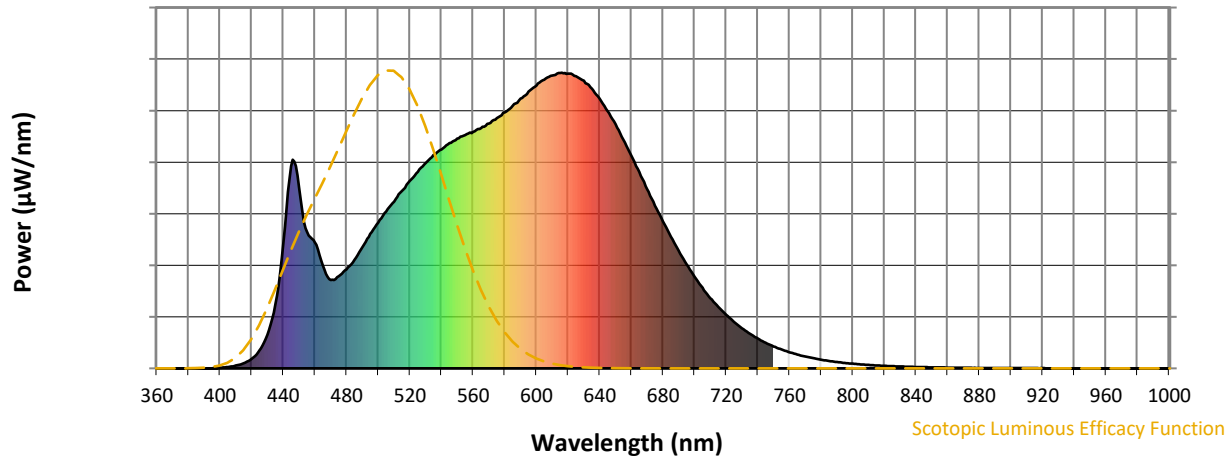


Photopic Lumens: NR

λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)
360	0	NR	490	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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Scotopic Flux vs. Wavelength



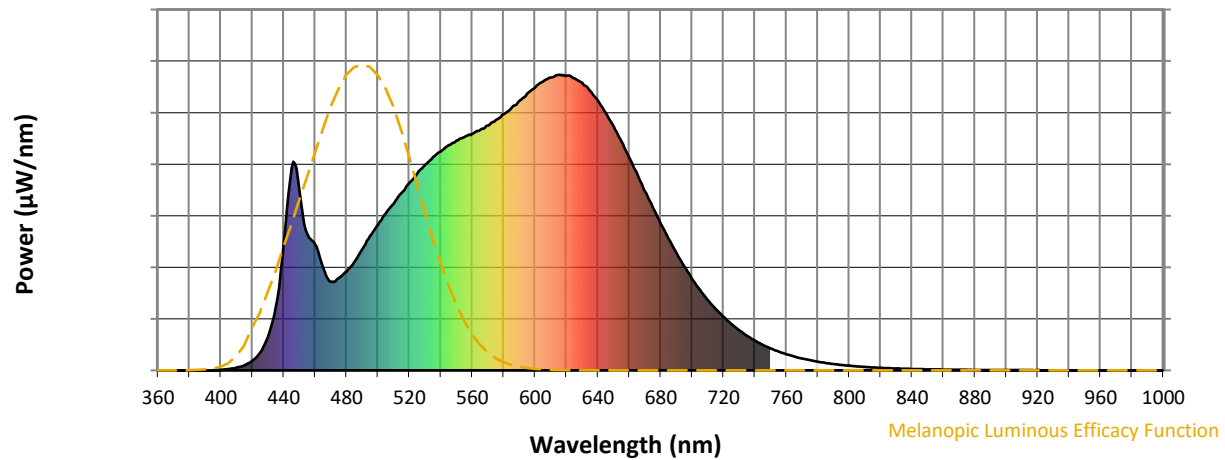
Scotopic Lumens: NR

S/P: 1.58

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			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 3.14

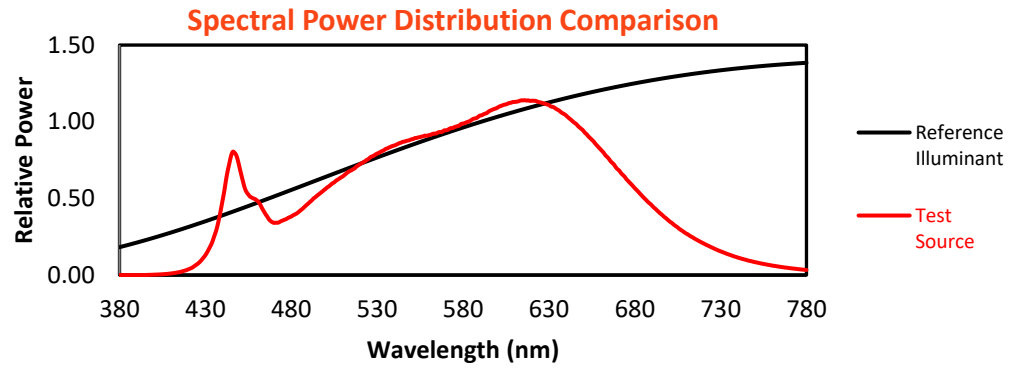
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	410	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

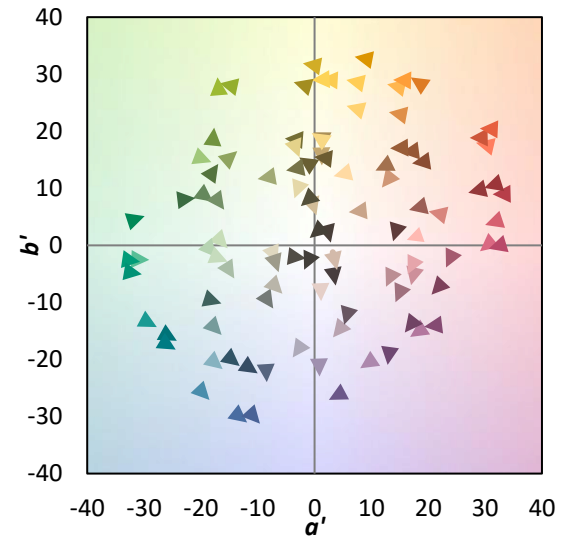
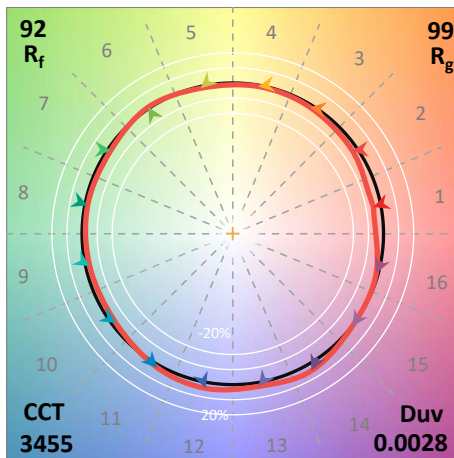
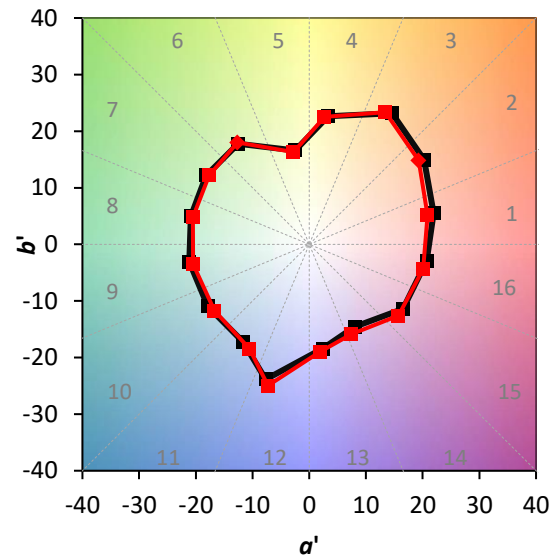
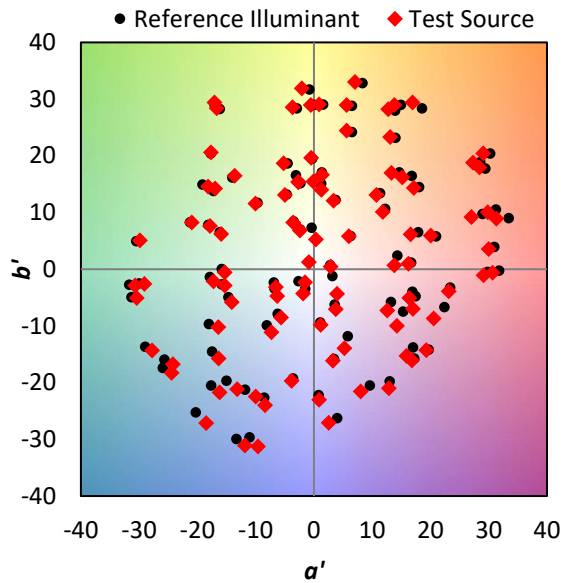
TM-30-18

Summary

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

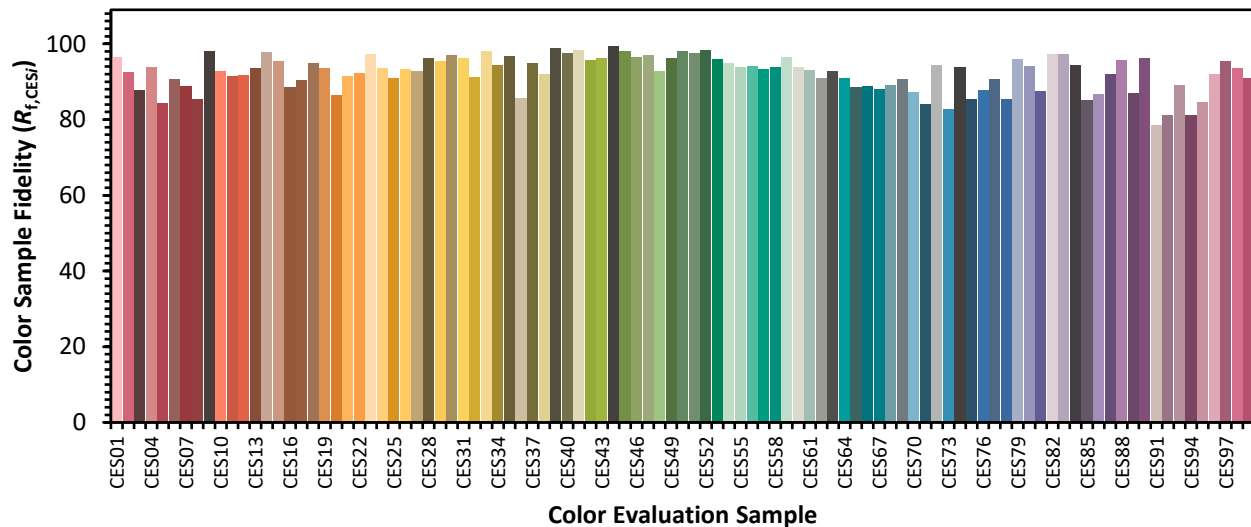


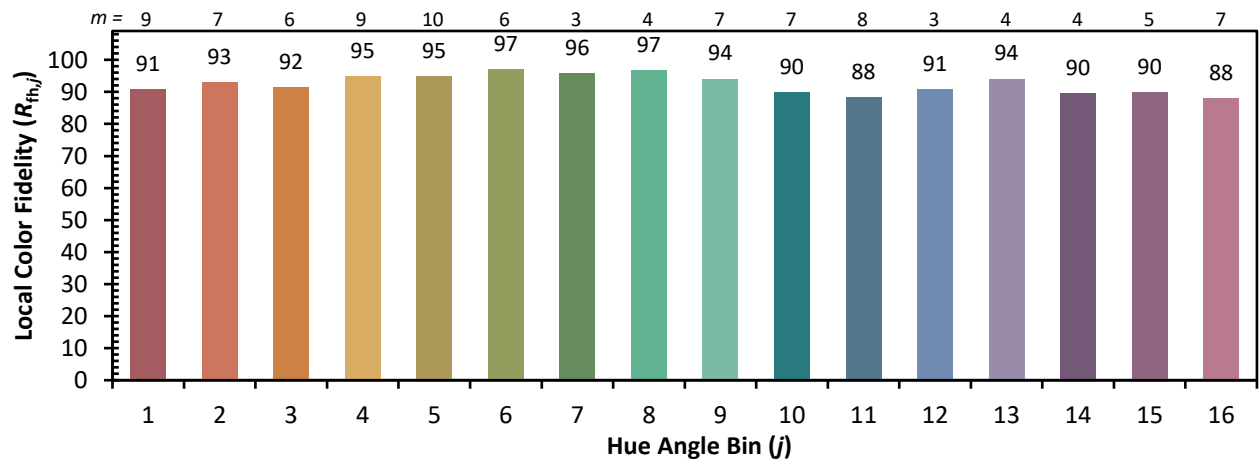
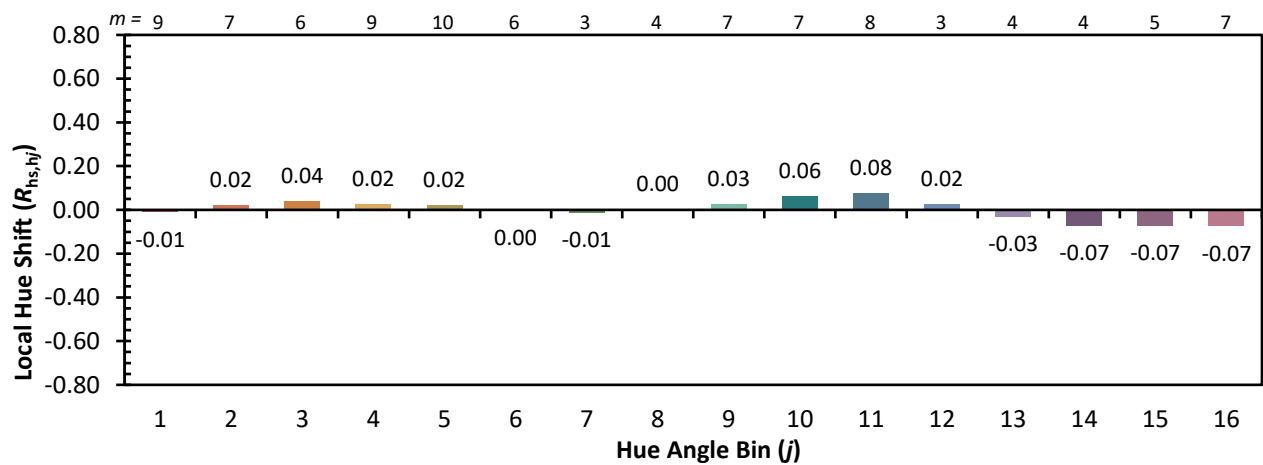
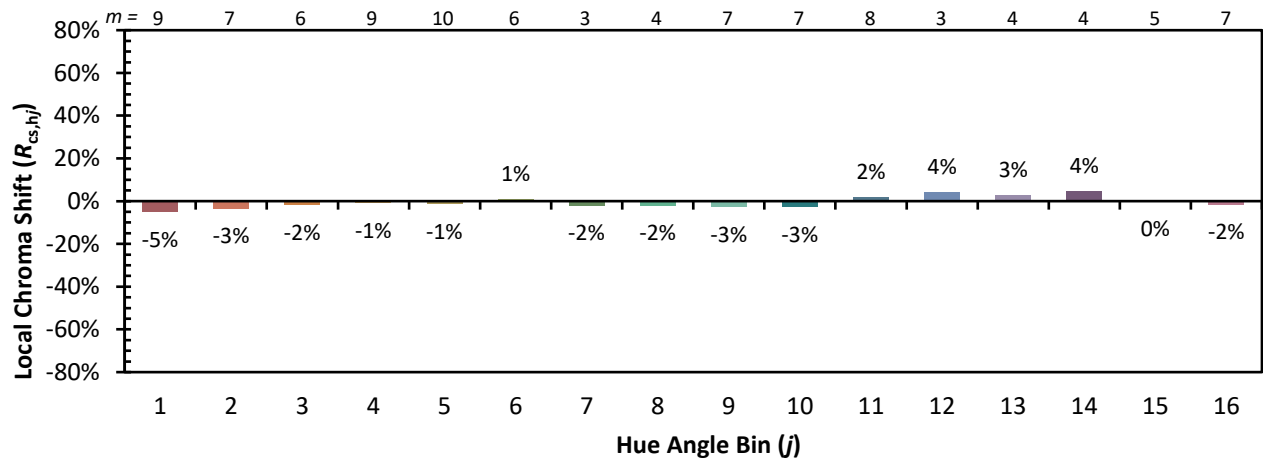
Color Vector Graphics



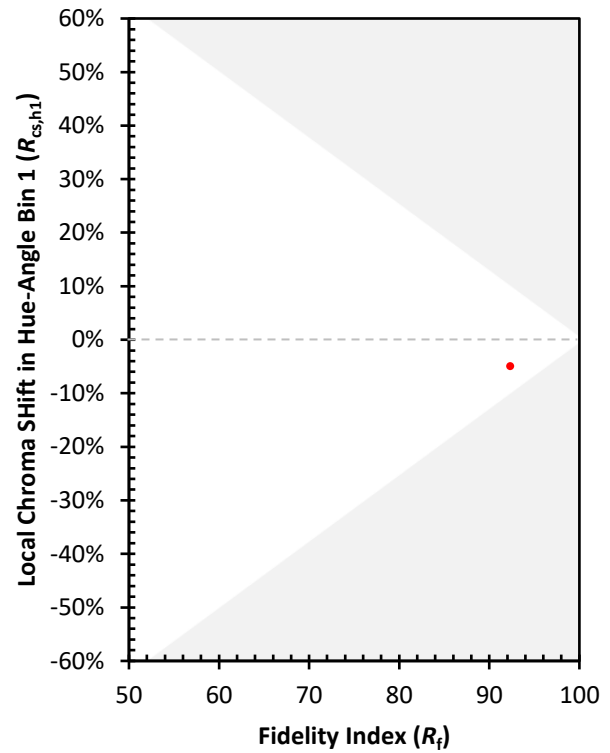
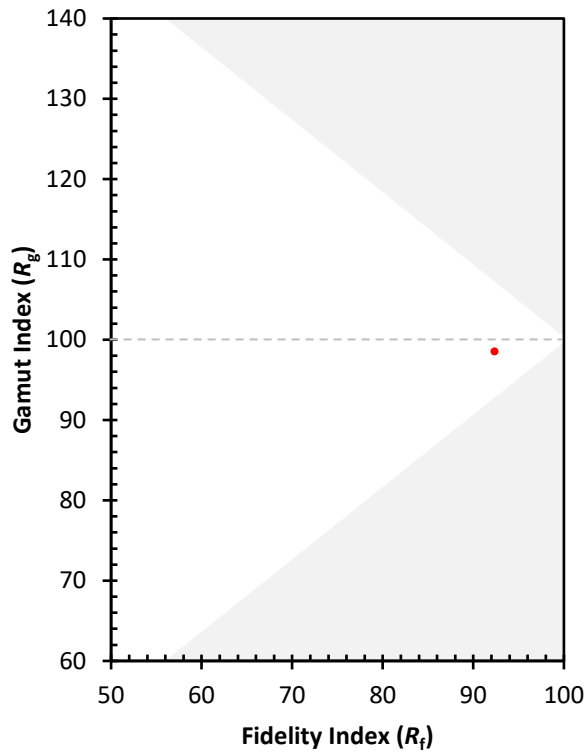
Individual Sample Fidelity Index ($R_{f,i}$)

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)