

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: P1049979

Luminaire Tested: **GALN-SA4C-935-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049979
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-935-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 4xLight Square PACKAGE
90CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14998.5 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 190.4
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

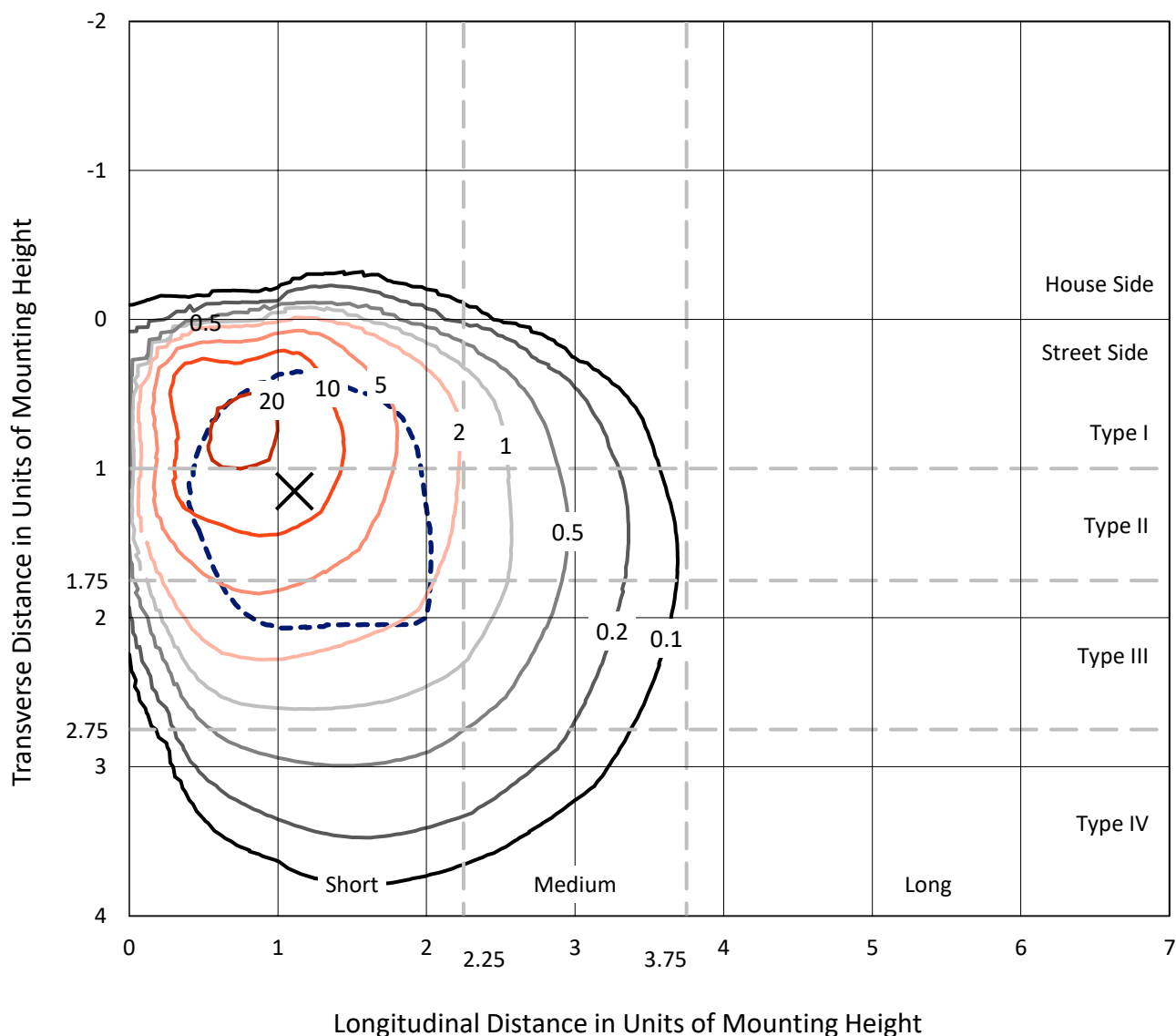
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

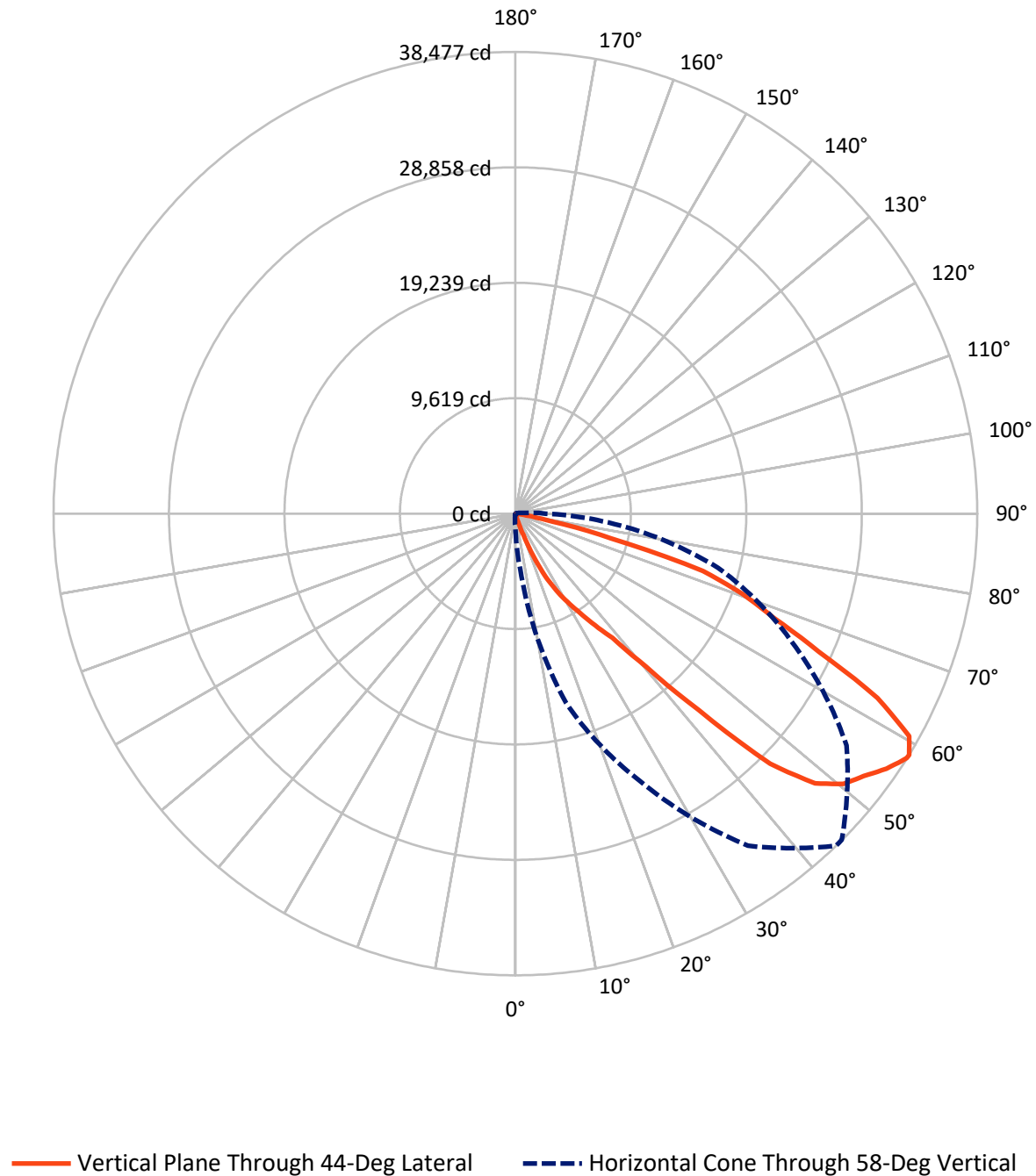


Based on 20 foot mounting height. Maximum calculated value = 26.1 fc

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	102.4	0.0	102.4
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	14896.1	0.0	14896.1
	% Fixture	99.3	0.0	99.3
Total	Lumens	14998.5	0.0	14998.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.9	0.0
10°-20°	32.9	0.2
20°-30°	355.3	2.4
30°-40°	1050.8	7.0
40°-50°	3131.9	20.9
50°-60°	4969.6	33.1
60°-70°	4145.2	27.6
70°-80°	1278.5	8.5
80°-90°	28.4	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°	14998.5	100.0
0°-180°	14998.5	100.0



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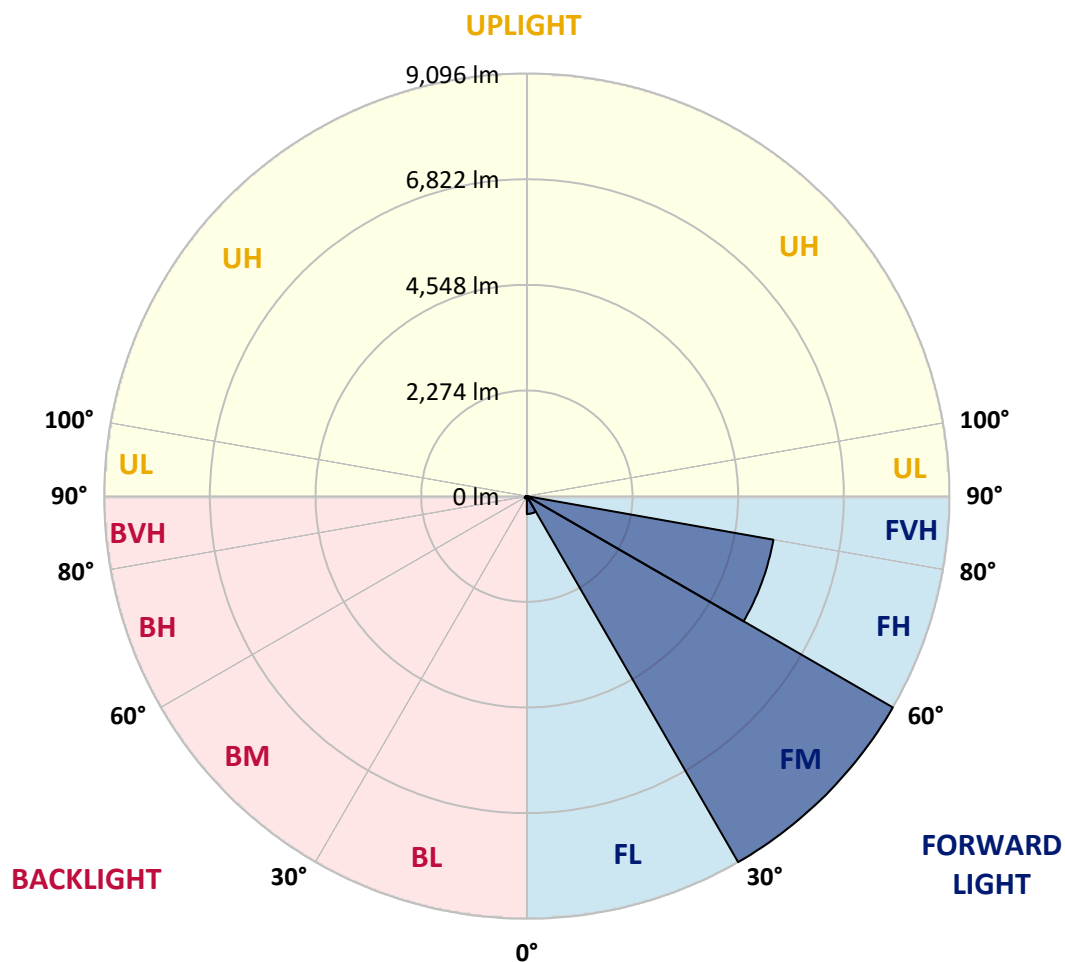
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	384.1	2.6			
FM	(30°-60°)	9096.3	60.6			
FH	(60°-80°)	5388.7	35.9			G3/7500
FVH	(80°-90°)	27.0	0.2			G1/100
BL	(0°-30°)	10.0	0.1	B0/110		
BM	(30°-60°)	56.1	0.4	B0/220		
BH	(60°-80°)	35.0	0.2	B0/110		G0/110
BVH	(80°-90°)	1.4	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°	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
2.5°	85.0	85.0	81.6	77.0	72.5	68.0	66.8	64.6	63.4	62.3
5°	88.4	88.4	87.2	83.8	79.3	75.9	75.9	72.5	70.2	68.0
7.5°	90.6	91.8	94.0	92.9	90.6	87.2	87.2	85.0	81.6	75.9
10°	94.0	97.4	102.0	104.2	105.4	105.4	104.2	103.1	97.4	89.5
12.5°	97.4	104.2	115.6	126.9	133.7	142.8	141.6	139.4	124.6	107.6
15°	104.2	114.4	138.2	171.1	222.1	253.8	266.3	254.9	206.2	145.0
17.5°	112.2	129.2	200.5	358.0	586.9	695.7	761.4	708.1	469.1	275.3
20°	120.1	157.5	372.8	927.9	1522.8	1878.5	1977.1	1823.0	1170.4	524.6
22.5°	133.7	220.9	755.7	1918.2	3281.2	3814.8	3915.7	3422.8	2210.5	1035.6
25°	162.0	320.6	1303.0	3126.0	4896.9	5797.6	5755.7	5109.9	3586.0	1654.2
27.5°	202.8	466.8	1970.3	4441.4	6444.6	7238.8	7334.0	6535.2	4780.2	2432.6
30°	261.7	646.9	2686.4	5495.1	7685.2	8544.0	8559.9	7733.9	5848.6	3115.8
32.5°	318.4	816.9	3312.9	6513.7	8907.7	9849.3	9919.5	8903.2	6646.2	3827.3
35°	361.4	927.9	3947.4	7408.8	10140.4	11437.7	11433.2	10226.6	7591.2	4462.9
37.5°	364.8	1039.0	4521.8	8324.2	11701.7	13154.3	13298.1	11968.0	8733.2	5249.2
40°	356.9	1163.6	5249.2	9751.8	14515.0	16743.6	16870.5	15193.7	11024.2	6595.3
42.5°	366.0	1380.0	6429.8	12388.3	19186.4	22387.2	22631.9	20868.9	15235.6	9341.7
45°	413.5	1786.8	8903.2	16799.1	25845.1	29747.2	29665.6	27126.5	20135.9	13522.5
47.5°	571.0	2782.7	12569.6	21092.1	30100.7	33575.6	33645.9	30542.6	22995.6	16736.8
50°	878.1	4257.9	15650.3	23361.5	31930.5	35416.8	35351.1	31765.1	24082.1	18319.6
52.5°	1142.1	5325.1	17195.7	24158.0	32165.0	36326.6	36322.1	32086.9	24251.0	18455.6
55°	1207.8	5405.6	17208.2	24201.1	32690.8	37517.4	37666.9	32878.8	24469.6	17861.9
57.5°	1181.7	4785.8	16489.8	24450.4	33626.6	38438.5	38446.4	33645.9	25024.8	17498.2
58°	1159.1	4688.4	16344.8	24592.0	33787.5	38477.0	38457.8	33681.0	25476.9	17484.6
60°	1032.2	4070.9	15779.4	24953.4	33548.4	37686.2	37506.0	32914.0	25410.0	17345.3
62.5°	811.2	3175.8	15223.1	24535.3	30985.6	33857.8	33932.5	29139.9	23164.4	16532.9
65°	645.8	2366.9	14062.9	21521.5	25515.4	27804.1	28082.8	23695.8	19334.8	13999.5
67.5°	514.4	1710.8	11796.9	17134.5	20190.2	23205.2	23408.0	19894.5	14979.5	10726.2
70°	418.1	1156.8	8142.9	12531.1	16653.0	20043.0	20055.4	16527.2	11180.5	7028.1
72.5°	370.5	801.0	4726.9	9138.9	13503.2	16332.3	16002.6	13411.4	8592.8	4162.7
75°	320.6	531.4	2318.1	5586.9	8187.1	8242.7	8368.4	6221.4	4295.2	1979.4
77.5°	264.0	377.3	913.2	1526.2	2455.2	3143.0	3259.7	2470.0	1428.7	487.2
80°	181.3	179.0	245.9	467.9	702.5	880.3	821.4	635.6	373.9	186.9
82.5°	78.2	85.0	111.0	133.7	108.8	105.4	100.8	64.6	49.9	38.5
85°	24.9	22.7	23.8	23.8	19.3	14.7	14.7	6.8	0.0	0.0
87.5°	12.5	10.2	10.2	9.1	5.7	2.3	1.1	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°
65.7	0°	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
61.2	2.5°	60.0	60.0	57.8	55.5	54.4	52.1	51.0	49.9	48.7	47.6
65.7	5°	63.4	62.3	58.9	55.5	52.1	48.7	46.5	44.2	41.9	40.8
72.5	7.5°	69.1	66.8	60.0	54.4	49.9	45.3	43.1	39.7	37.4	34.0
80.4	10°	75.9	71.4	62.3	55.5	48.7	43.1	39.7	36.3	32.9	28.3
91.8	12.5°	85.0	77.0	65.7	54.4	46.5	39.7	36.3	31.7	28.3	24.9
106.5	15°	92.9	82.7	66.8	54.4	44.2	36.3	31.7	27.2	23.8	19.3
133.7	17.5°	104.2	87.2	65.7	51.0	40.8	31.7	27.2	23.8	18.1	11.3
198.3	20°	123.5	90.6	63.4	47.6	35.1	26.1	20.4	15.9	7.9	2.3
298.0	22.5°	154.1	99.7	61.2	43.1	30.6	20.4	13.6	5.7	0.0	0.0
453.2	25°	213.0	115.6	61.2	40.8	27.2	14.7	4.5	0.0	0.0	0.0
643.5	27.5°	283.3	137.1	61.2	35.1	21.5	7.9	0.0	0.0	0.0	0.0
877.0	30°	354.6	160.9	61.2	30.6	17.0	1.1	0.0	0.0	0.0	0.0
1079.8	32.5°	422.6	181.3	62.3	26.1	11.3	0.0	0.0	0.0	0.0	0.0
1360.7	35°	491.7	184.7	61.2	22.7	6.8	0.0	0.0	0.0	0.0	0.0
1705.2	37.5°	580.1	177.9	57.8	20.4	3.4	0.0	0.0	0.0	0.0	0.0
2243.4	40°	713.8	181.3	54.4	19.3	1.1	0.0	0.0	0.0	0.0	0.0
3203.0	42.5°	960.8	196.0	49.9	19.3	0.0	0.0	0.0	0.0	0.0	0.0
5101.9	45°	1661.0	262.9	45.3	20.4	0.0	0.0	0.0	0.0	0.0	0.0
7659.2	47.5°	2747.6	472.5	44.2	20.4	0.0	0.0	0.0	0.0	0.0	0.0
9226.1	50°	3506.7	594.8	46.5	21.5	0.0	0.0	0.0	0.0	0.0	0.0
9422.1	52.5°	3501.0	662.8	48.7	22.7	4.5	0.0	0.0	0.0	0.0	0.0
8684.5	55°	3112.4	675.3	52.1	24.9	14.7	0.0	0.0	0.0	0.0	0.0
7463.1	57.5°	2601.4	616.4	60.0	30.6	27.2	0.0	0.0	0.0	0.0	0.0
7271.7	58°	2510.8	589.2	62.3	31.7	29.5	0.0	0.0	0.0	0.0	0.0
6307.5	60°	2057.5	480.4	79.3	39.7	39.7	0.0	0.0	0.0	0.0	0.0
5171.1	62.5°	1420.8	419.2	90.6	51.0	40.8	0.0	0.0	0.0	0.0	0.0
3812.6	65°	1005.0	378.4	98.6	54.4	32.9	0.0	0.0	0.0	0.0	0.0
2709.0	67.5°	751.2	349.0	108.8	55.5	17.0	0.0	0.0	0.0	0.0	0.0
1699.5	70°	575.6	327.4	133.7	58.9	4.5	0.0	0.0	0.0	0.0	0.0
1012.9	72.5°	469.1	302.5	162.0	61.2	0.0	0.0	0.0	0.0	0.0	0.0
607.3	75°	388.6	273.1	156.4	66.8	0.0	0.0	0.0	0.0	0.0	0.0
324.0	77.5°	258.3	211.9	142.8	66.8	0.0	0.0	0.0	0.0	0.0	0.0
115.6	80°	90.6	83.8	111.0	58.9	0.0	0.0	0.0	0.0	0.0	0.0
23.8	82.5°	13.6	11.3	15.9	20.4	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°
65.7	0°	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
46.5	2.5°	46.5	46.5	45.3	46.5	46.5	48.7	54.4	62.3	71.4	74.8
39.7	5°	38.5	37.4	36.3	36.3	36.3	39.7	44.2	53.3	63.4	68.0
32.9	7.5°	31.7	30.6	29.5	28.3	28.3	30.6	36.3	46.5	56.7	61.2
27.2	10°	26.1	23.8	22.7	21.5	21.5	23.8	29.5	39.7	51.0	55.5
22.7	12.5°	21.5	18.1	15.9	14.7	13.6	17.0	22.7	31.7	44.2	49.9
17.0	15°	14.7	11.3	7.9	6.8	5.7	9.1	14.7	24.9	37.4	44.2
9.1	17.5°	7.9	3.4	1.1	0.0	0.0	2.3	6.8	18.1	30.6	36.3
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	22.7	28.3
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	13.6	19.3
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	10.2
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
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	3.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	9.1
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°
65.7	0°	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
78.2	2.5°	80.4	79.3	77.0	74.8	74.8	74.8	78.2	81.6	85.0	85.0
70.2	5°	74.8	74.8	73.6	71.4	71.4	72.5	77.0	82.7	87.2	88.4
64.6	7.5°	69.1	71.4	69.1	68.0	69.1	70.2	74.8	81.6	88.4	90.6
60.0	10°	65.7	66.8	66.8	65.7	65.7	68.0	72.5	81.6	90.6	94.0
54.4	12.5°	61.2	63.4	62.3	62.3	62.3	64.6	70.2	80.4	92.9	97.4
48.7	15°	56.7	60.0	60.0	58.9	58.9	60.0	68.0	79.3	96.3	104.2
41.9	17.5°	52.1	55.5	56.7	54.4	54.4	56.7	64.6	79.3	98.6	112.2
34.0	20°	43.1	48.7	52.1	48.7	48.7	51.0	58.9	74.8	99.7	120.1
24.9	22.5°	34.0	39.7	44.2	43.1	43.1	44.2	54.4	71.4	100.8	133.7
14.7	25°	24.9	30.6	34.0	36.3	36.3	39.7	49.9	69.1	105.4	162.0
6.8	27.5°	14.7	21.5	26.1	28.3	29.5	34.0	46.5	66.8	113.3	202.8
0.0	30°	6.8	12.5	18.1	22.7	22.7	30.6	43.1	64.6	123.5	261.7
0.0	32.5°	0.0	5.7	9.1	15.9	17.0	24.9	39.7	62.3	138.2	318.4
0.0	35°	0.0	0.0	4.5	12.5	12.5	20.4	36.3	60.0	160.9	361.4
0.0	37.5°	0.0	0.0	0.0	9.1	10.2	18.1	35.1	58.9	165.4	364.8
0.0	40°	0.0	0.0	0.0	6.8	7.9	17.0	35.1	60.0	149.6	356.9
0.0	42.5°	0.0	0.0	0.0	4.5	5.7	17.0	35.1	62.3	134.8	366.0
0.0	45°	0.0	0.0	0.0	3.4	4.5	18.1	34.0	61.2	126.9	413.5
0.0	47.5°	0.0	0.0	0.0	4.5	6.8	18.1	32.9	60.0	128.0	571.0
0.0	50°	0.0	0.0	0.0	5.7	7.9	18.1	34.0	57.8	140.5	878.1
0.0	52.5°	0.0	0.0	0.0	4.5	6.8	20.4	37.4	56.7	153.0	1142.1
0.0	55°	0.0	0.0	0.0	1.1	3.4	26.1	40.8	56.7	172.2	1207.8
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	29.5	46.5	60.0	203.9	1181.7
0.0	58°	0.0	0.0	0.0	0.0	0.0	29.5	47.6	60.0	206.2	1159.1
0.0	60°	0.0	0.0	0.0	0.0	0.0	29.5	52.1	66.8	222.1	1032.2
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	24.9	62.3	83.8	231.1	811.2
0.0	65°	0.0	0.0	0.0	0.0	0.0	20.4	73.6	91.8	237.9	645.8
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	19.3	75.9	92.9	241.3	514.4
0.0	70°	0.0	0.0	0.0	0.0	0.0	20.4	74.8	99.7	252.7	418.1
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	22.7	68.0	109.9	252.7	370.5
0.0	75°	0.0	0.0	0.0	0.0	0.0	23.8	63.4	123.5	230.0	320.6
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	22.7	62.3	143.9	205.1	264.0
0.0	80°	2.3	3.4	3.4	2.3	2.3	19.3	61.2	146.2	174.5	181.3
1.1	82.5°	6.8	9.1	7.9	5.7	5.7	17.0	54.4	122.4	90.6	78.2
6.8	85°	12.5	14.7	14.7	12.5	12.5	15.9	34.0	44.2	30.6	24.9
12.5	87.5°	17.0	19.3	19.3	17.0	17.0	15.9	14.7	13.6	12.5	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

(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

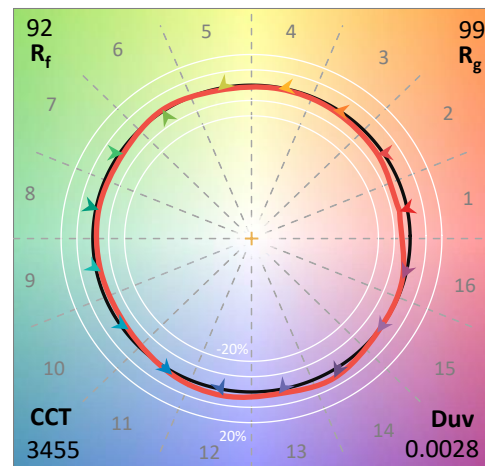
Test Information

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

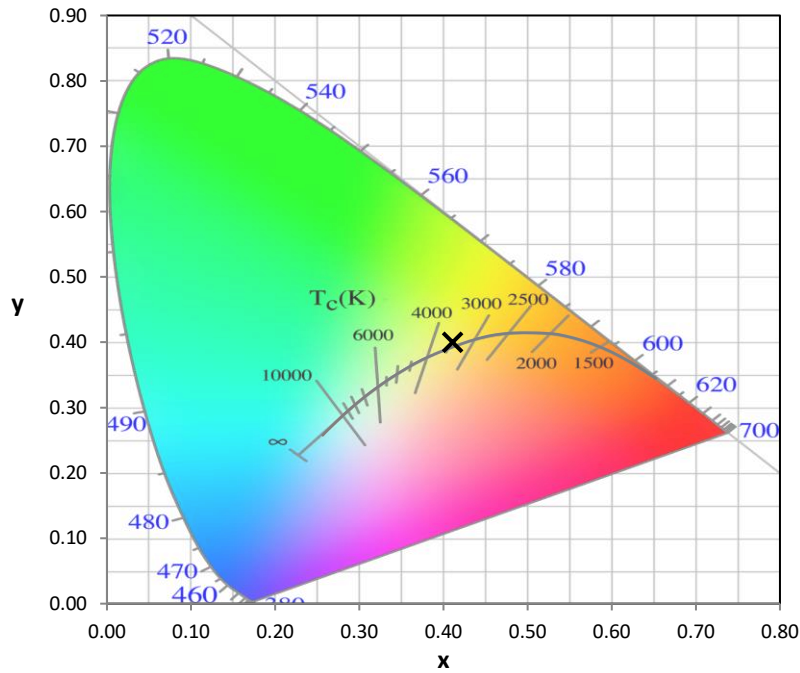
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-15

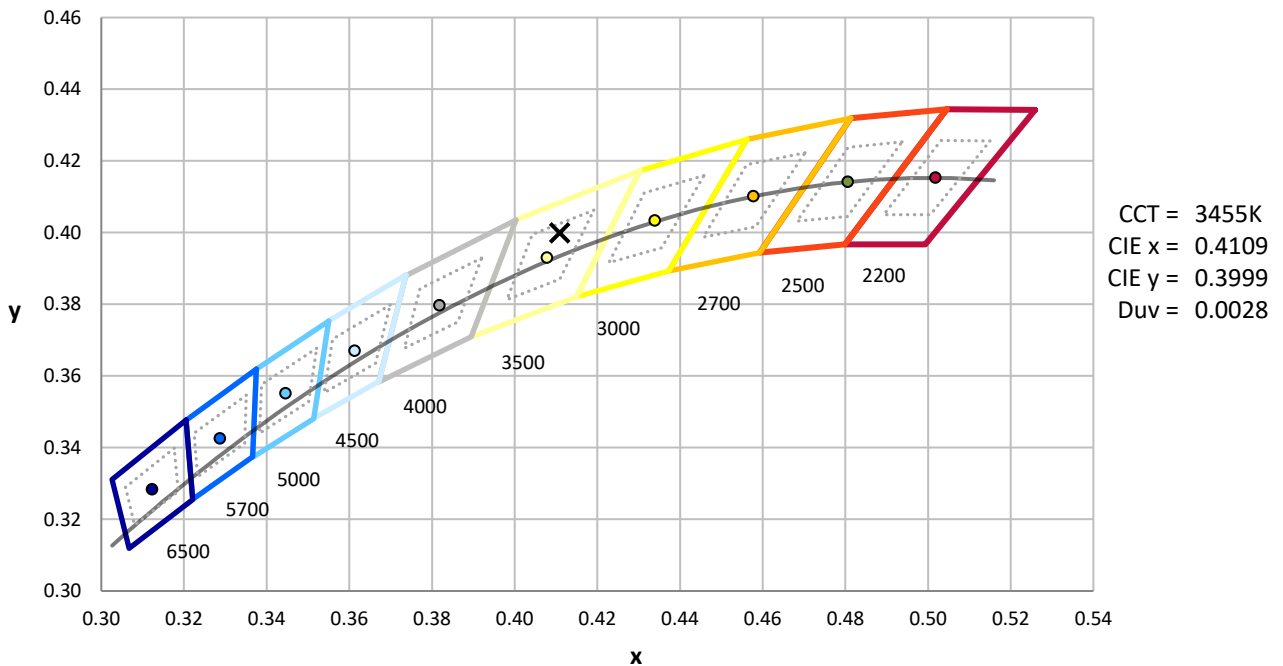
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-15

CIE 1931 Chromaticity Diagram



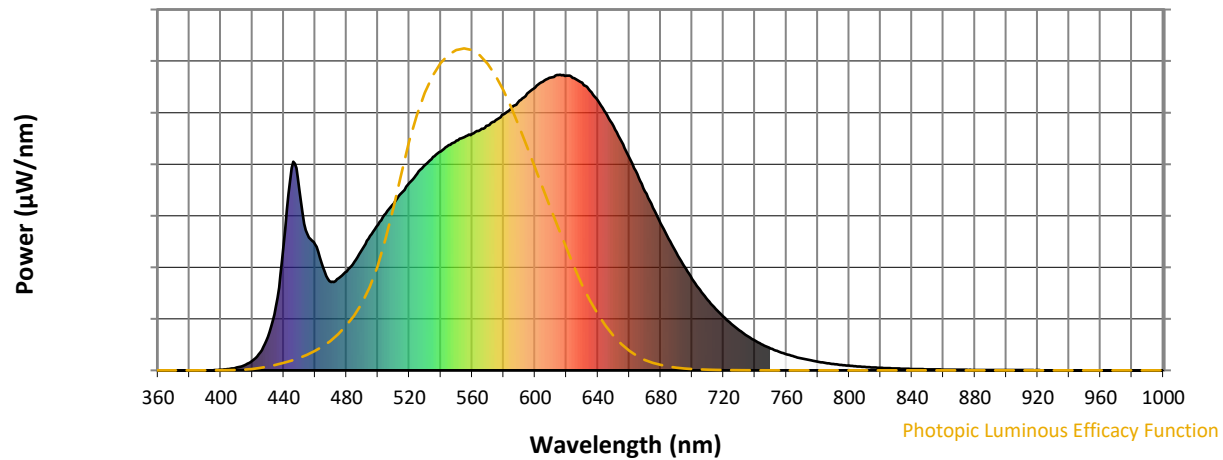
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-15

Photopic Flux vs. Wavelength

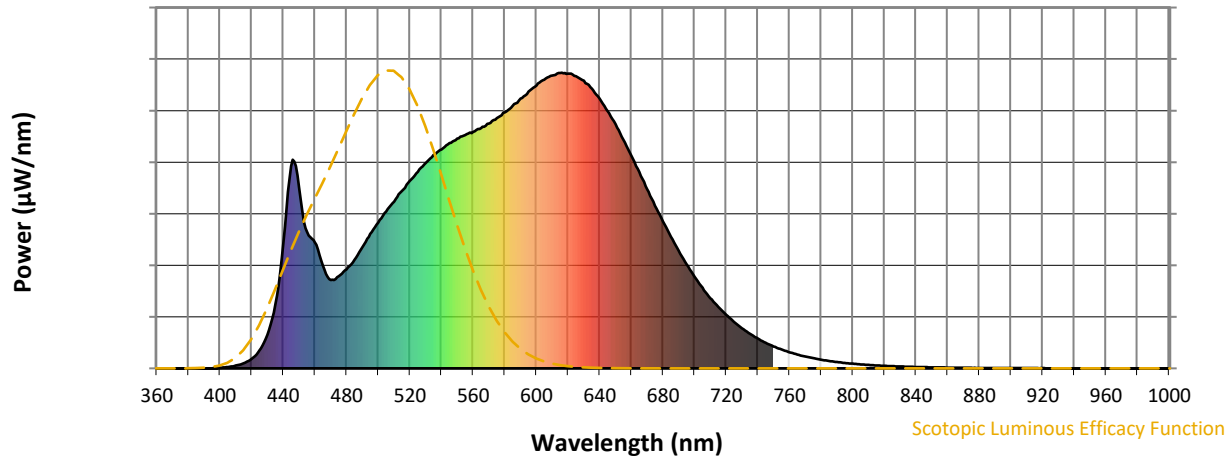


Photopic Lumens: NR

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



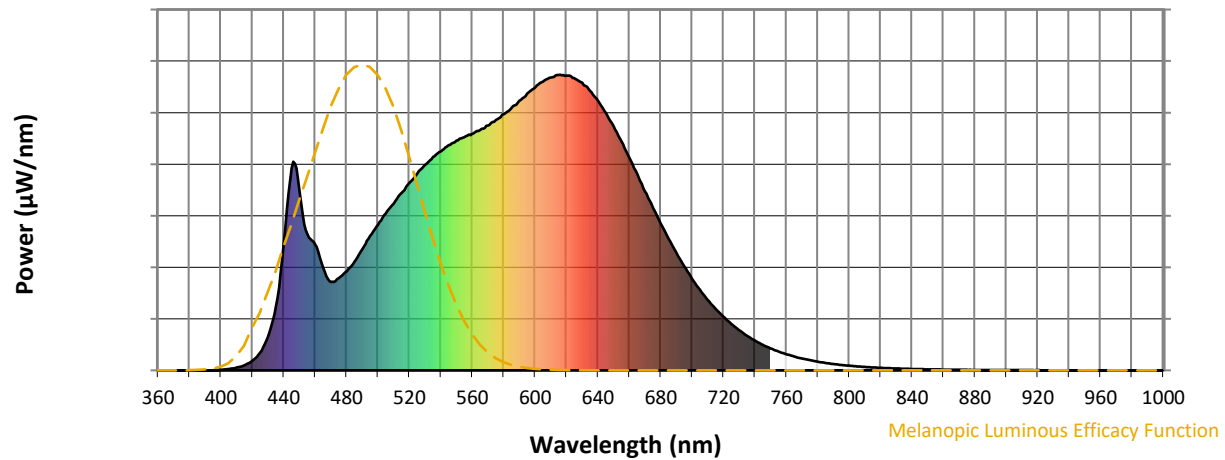
Scotopic Lumens: NR

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

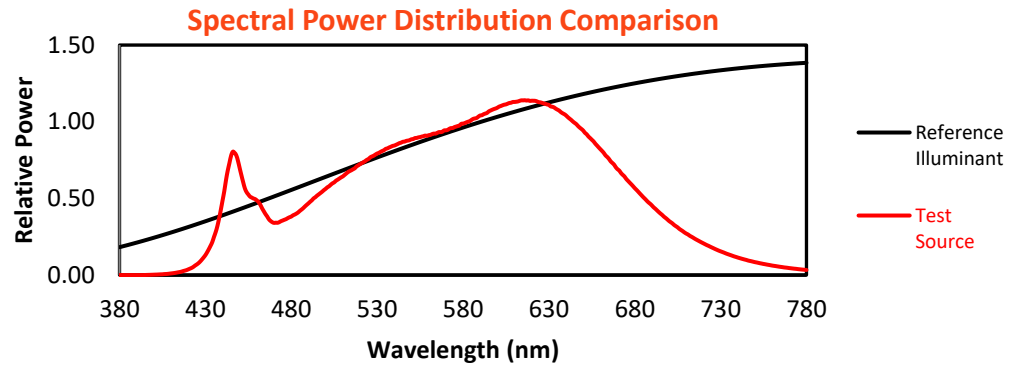
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	410	NR	620	997	NR	750	74	NR	880	1	NR
365	0	NR	495	454	NR	625	988	NR	755	64	NR	885	1	NR
370	0	NR	500	493	NR	630	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

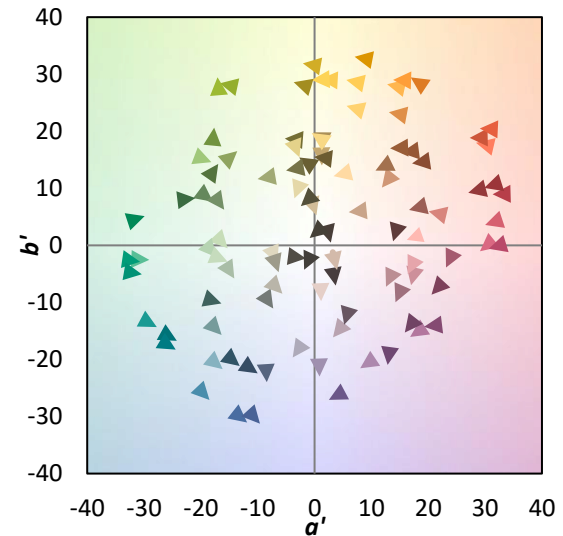
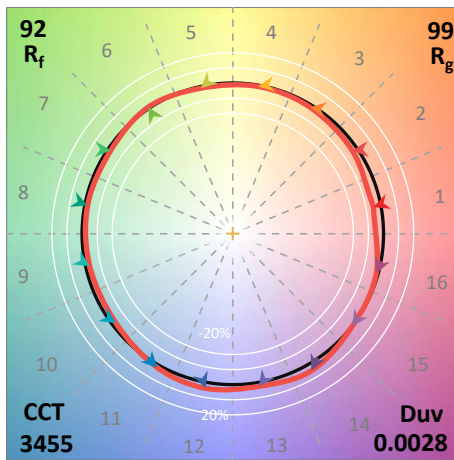
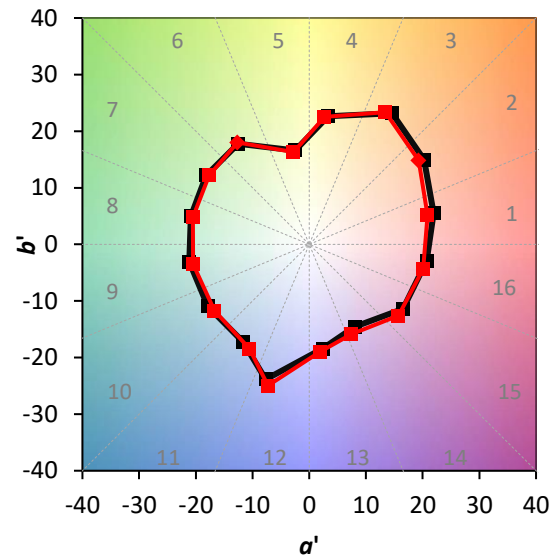
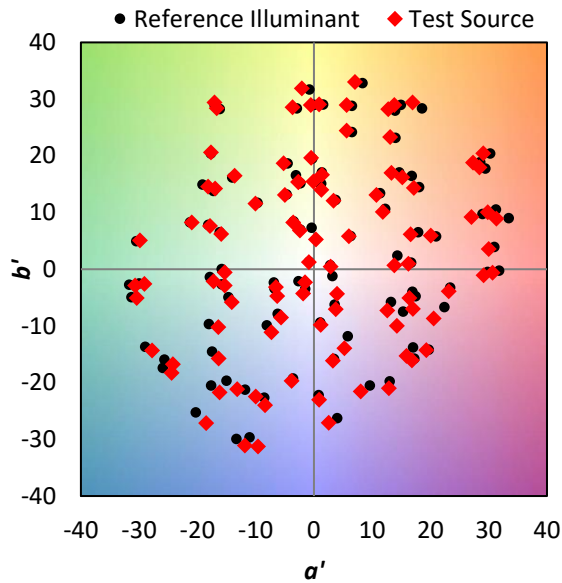
TM-30-18

Summary

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

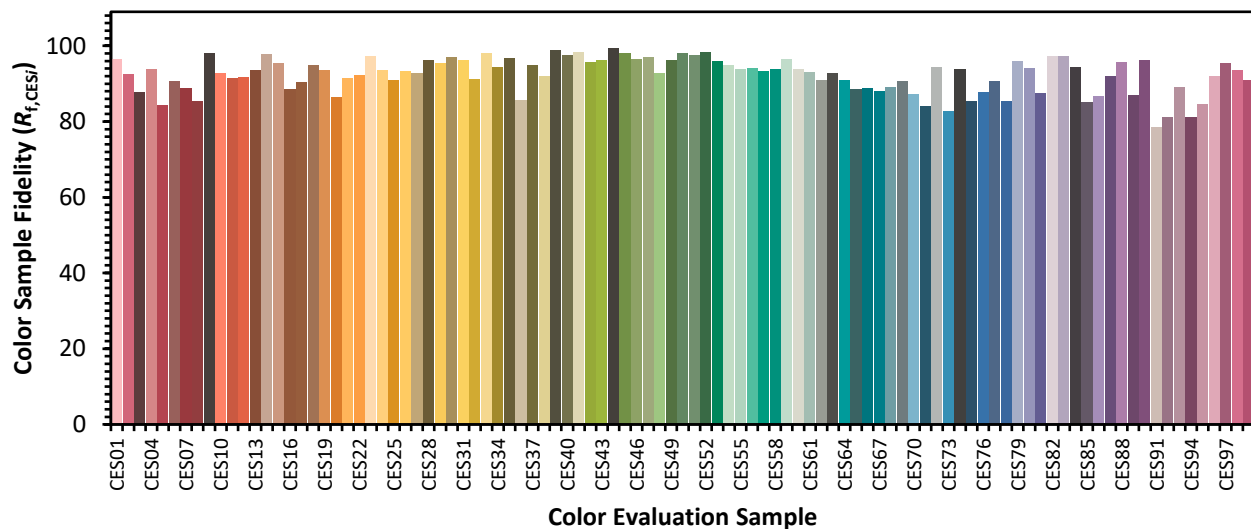


Color Vector Graphics

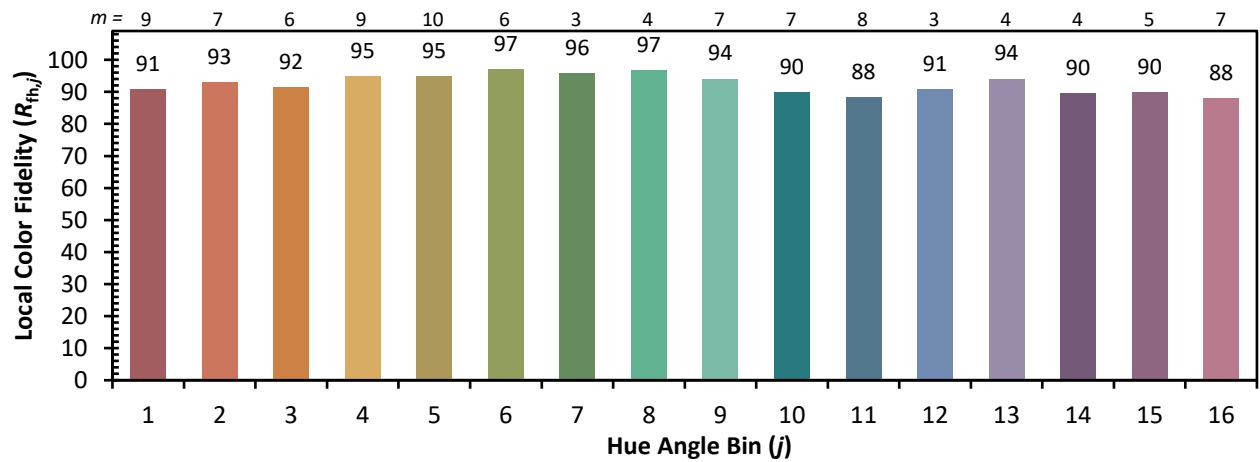
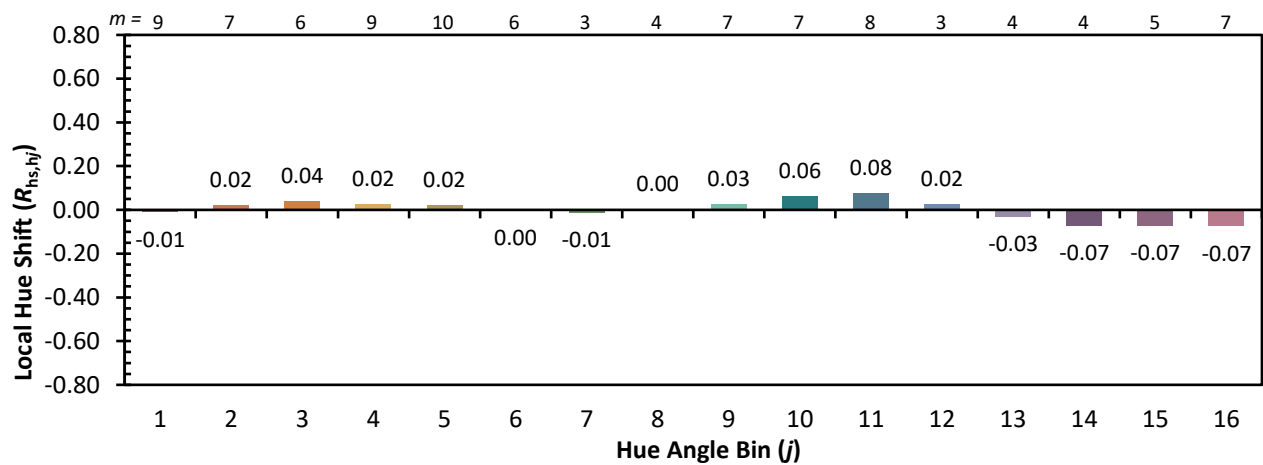
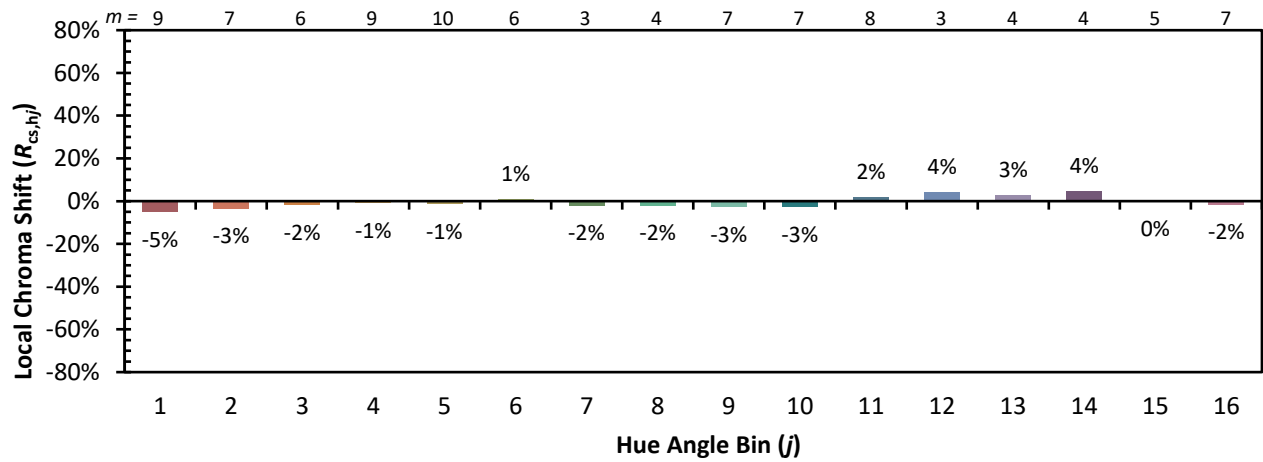


Individual Sample Fidelity Index ($R_{f,i}$)

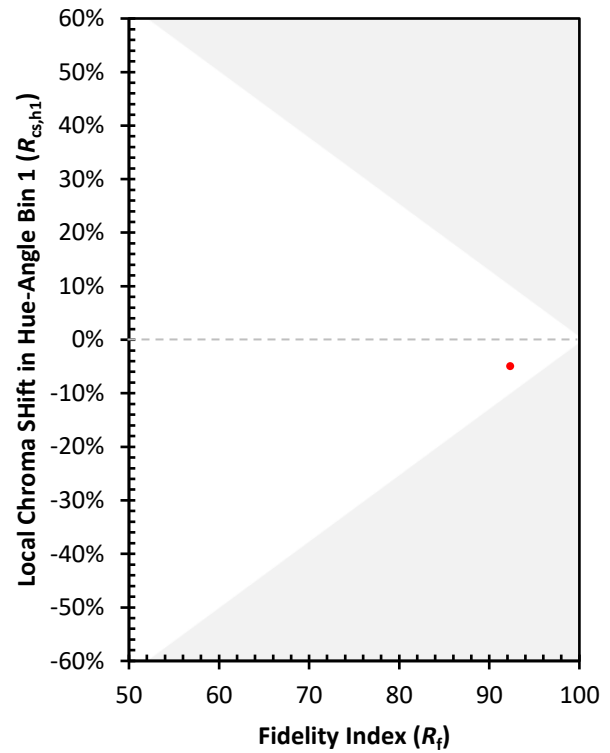
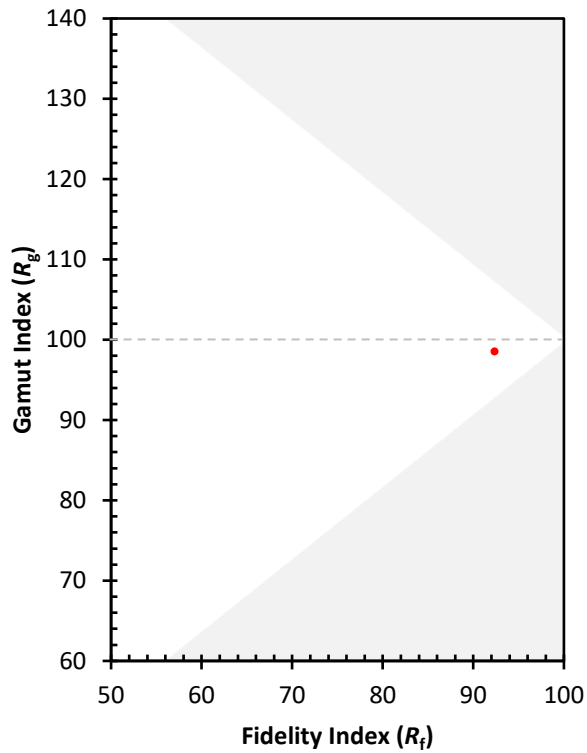
CES01 = 86	CES26 = 93	CES51 = 97	CES76 = 88
CES02 = 62	CES27 = 93	CES52 = 98	CES77 = 91
CES03 = 31	CES28 = 96	CES53 = 96	CES78 = 85
CES04 = 70	CES29 = 95	CES54 = 95	CES79 = 96
CES05 = 50	CES30 = 97	CES55 = 94	CES80 = 94
CES06 = 51	CES31 = 96	CES56 = 94	CES81 = 87
CES07 = 42	CES32 = 91	CES57 = 93	CES82 = 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)