

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: STREETWORKS

Report Number: P1065111

Luminaire Tested: **GLAN-SA4C-740-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1065111
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4C-740-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 4xLight Square PACKAGE
70CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20503.8 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

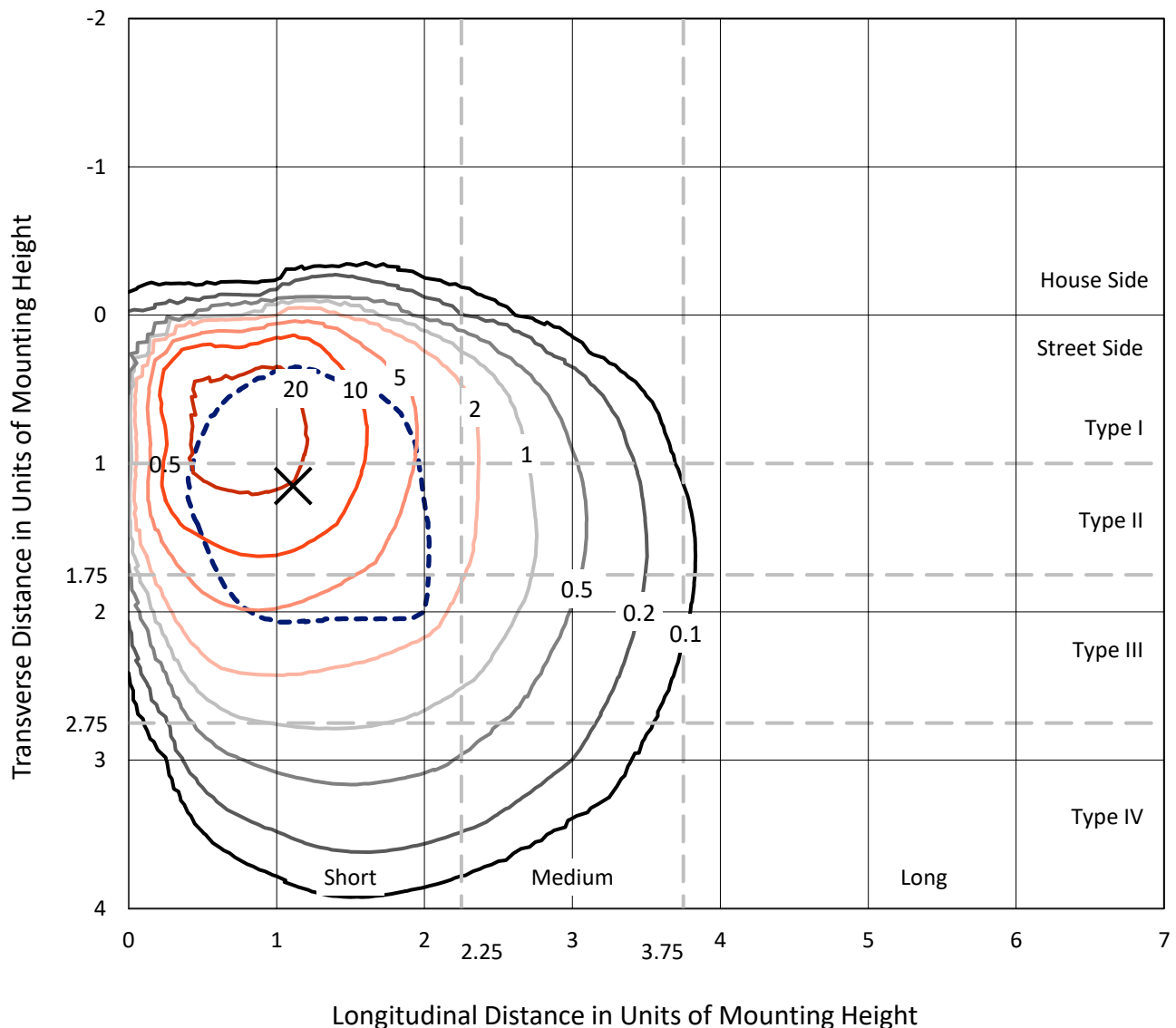
Input Watts (W): 190.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

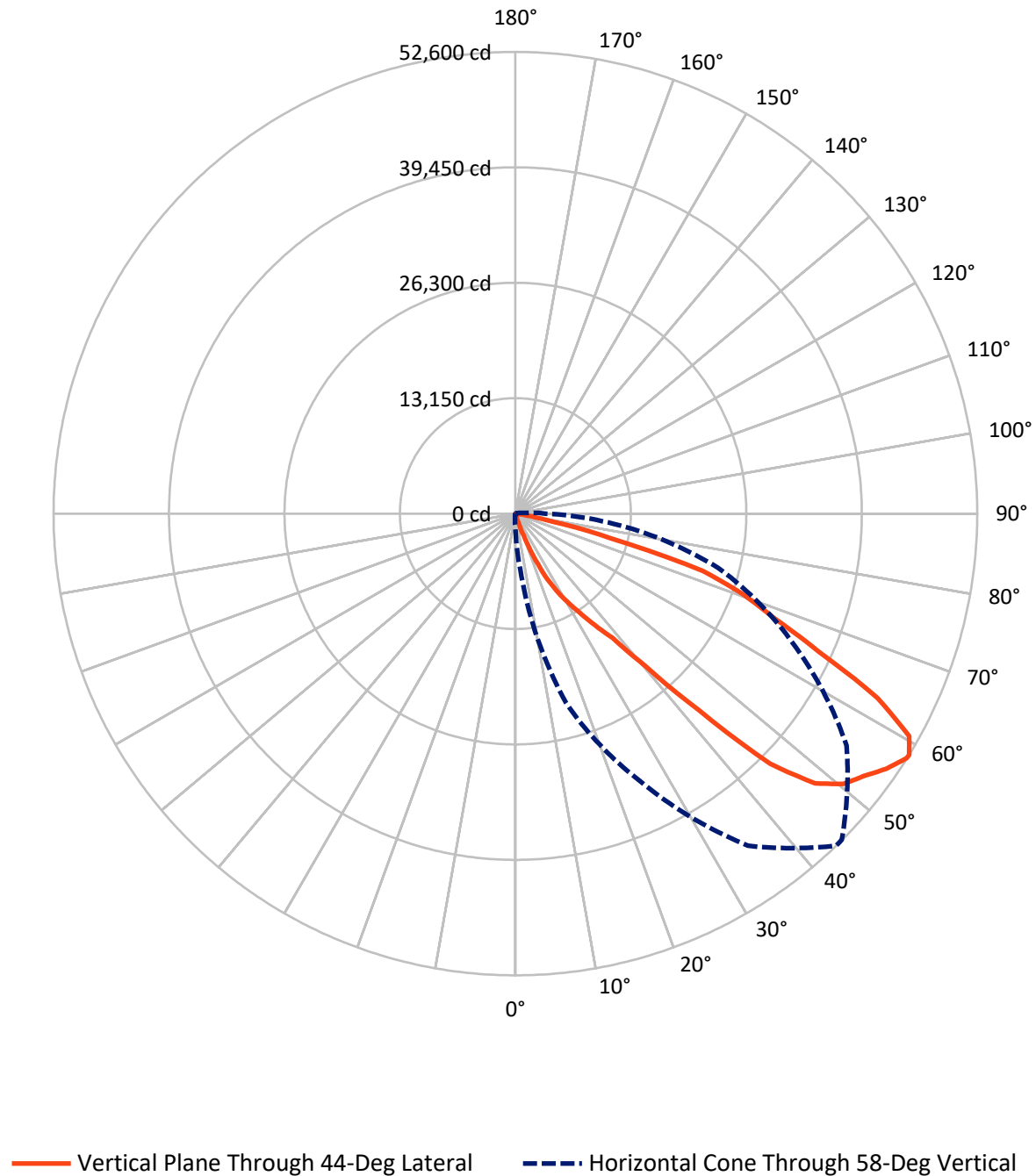
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 35.7 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	140.0	0.0	140.0
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	20363.8	0.0	20363.8
	% Fixture	99.3	0.0	99.3
Total	Lumens	20503.8	0.0	20503.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.0	0.0
10°-20°	45.0	0.2
20°-30°	485.7	2.4
30°-40°	1436.5	7.0
40°-50°	4281.5	20.9
50°-60°	6793.7	33.1
60°-70°	5666.8	27.6
70°-80°	1747.7	8.5
80°-90°	38.8	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°	20503.8	100.0
0°-180°	20503.8	100.0



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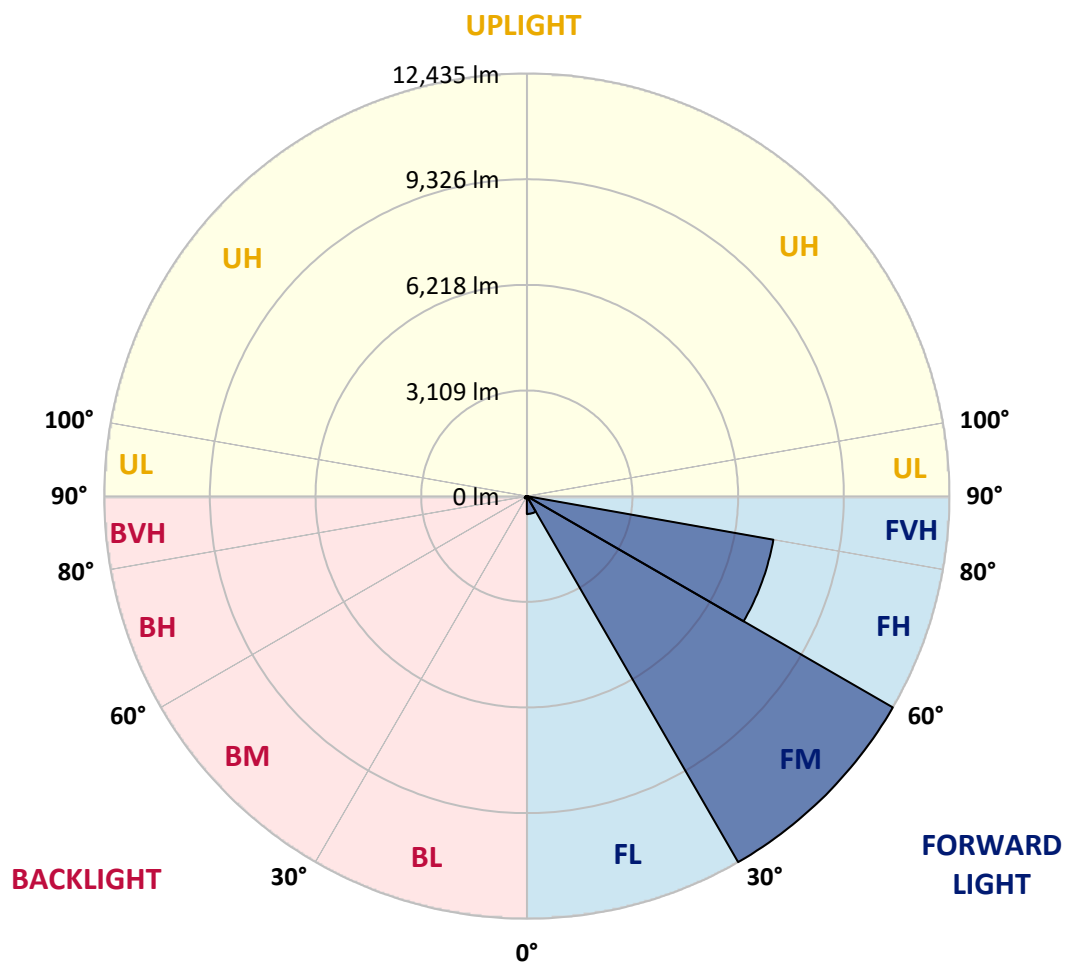
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	525.0	2.6			
FM	(30°-60°)	12435.1	60.6			
FH	(60°-80°)	7366.7	35.9			G3/7500
FVH	(80°-90°)	36.9	0.2			G1/100
BL	(0°-30°)	13.7	0.1	B0/110		
BM	(30°-60°)	76.6	0.4	B0/220		
BH	(60°-80°)	47.8	0.2	B0/110		G0/110
BVH	(80°-90°)	1.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
2.5°	116.2	116.2	111.5	105.3	99.1	92.9	91.4	88.3	86.7	85.2
5°	120.8	120.8	119.3	114.6	108.4	103.8	103.8	99.1	96.0	92.9
7.5°	123.9	125.5	128.6	127.0	123.9	119.3	119.3	116.2	111.5	103.8
10°	128.6	133.2	139.4	142.5	144.0	144.0	142.5	140.9	133.2	122.4
12.5°	133.2	142.5	158.0	173.5	182.8	195.2	193.6	190.5	170.4	147.1
15°	142.5	156.4	189.0	233.9	303.6	347.0	364.0	348.5	281.9	198.3
17.5°	153.3	176.6	274.2	489.4	802.3	951.0	1040.9	968.1	641.2	376.4
20°	164.2	215.3	509.6	1268.5	2081.7	2568.1	2702.8	2492.2	1600.0	717.1
22.5°	182.8	302.0	1033.1	2622.3	4485.6	5215.1	5353.0	4679.2	3021.9	1415.7
25°	221.5	438.3	1781.2	4273.4	6694.3	7925.7	7868.3	6985.5	4902.2	2261.4
27.5°	277.3	638.1	2693.5	6071.6	8810.1	9895.8	10025.9	8934.0	6534.8	3325.5
30°	357.8	884.4	3672.4	7512.1	10506.1	11680.2	11701.8	10572.7	7995.4	4259.4
32.5°	435.2	1116.7	4528.9	8904.5	12177.3	13464.5	13560.5	12171.2	9085.8	5232.1
35°	494.1	1268.5	5396.3	10128.2	13862.5	15636.0	15629.8	13980.2	10377.5	6101.1
37.5°	498.7	1420.3	6181.6	11379.7	15996.9	17982.6	18179.3	16360.9	11938.8	7176.0
40°	487.9	1590.7	7176.0	13331.3	19842.8	22889.4	23062.9	20770.6	15070.7	9016.1
42.5°	500.3	1886.5	8789.9	16935.5	26228.8	30604.4	30939.0	28528.9	20827.9	12770.6
45°	565.3	2442.6	12171.2	22965.3	35331.7	40666.0	40554.5	37083.4	27526.8	18486.0
47.5°	780.6	3804.1	17183.3	28834.1	41149.3	45899.7	45995.7	41753.3	31436.2	22880.2
50°	1200.4	5820.7	21394.8	31936.5	43650.7	48416.6	48326.8	43424.6	32921.6	25043.9
52.5°	1561.3	7279.8	23507.5	33025.4	43971.3	49660.4	49654.2	43864.5	33152.4	25229.8
55°	1651.1	7389.7	23524.5	33084.2	44690.0	51288.3	51492.7	44947.1	33451.3	24418.2
57.5°	1615.5	6542.5	22542.5	33425.0	45969.4	52547.5	52558.4	45995.7	34210.3	23921.0
58°	1584.5	6409.3	22344.2	33618.6	46189.3	52600.2	52573.9	46043.8	34828.3	23902.4
60°	1411.0	5565.1	21571.3	34112.7	45862.5	51519.1	51272.8	44995.2	34736.9	23711.9
62.5°	1109.0	4341.5	20810.8	33541.1	42358.9	46285.4	46387.6	39835.8	31667.0	22601.4
65°	882.9	3235.6	19224.8	29421.1	34880.9	38009.7	38390.7	32393.4	26431.7	19138.0
67.5°	703.2	2338.8	16127.0	23423.8	27601.2	31722.7	32000.0	27196.9	20477.8	14663.3
70°	571.5	1581.4	11131.8	17130.7	22765.5	27399.8	27416.8	22593.6	15284.4	9607.7
72.5°	506.5	1095.1	6462.0	12493.3	18459.6	22327.2	21876.5	18334.2	11746.8	5690.6
75°	438.3	726.4	3169.0	7637.6	11192.3	11268.1	11440.1	8504.9	5871.8	2705.9
77.5°	360.9	515.8	1248.4	2086.4	3356.4	4296.6	4456.1	3376.6	1953.1	666.0
80°	247.8	244.7	336.1	639.7	960.3	1203.5	1122.9	868.9	511.1	255.6
82.5°	106.9	116.2	151.8	182.8	148.7	144.0	137.9	88.3	68.2	52.7
85°	34.1	31.0	32.5	32.5	26.3	20.1	20.1	9.3	0.0	0.0
87.5°	17.0	13.9	13.9	12.4	7.7	3.1	1.5	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°
89.8	0°	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
83.6	2.5°	82.1	82.1	79.0	75.9	74.3	71.2	69.7	68.2	66.6	65.1
89.8	5°	86.7	85.2	80.5	75.9	71.2	66.6	63.5	60.4	57.3	55.8
99.1	7.5°	94.5	91.4	82.1	74.3	68.2	62.0	58.9	54.2	51.1	46.5
110.0	10°	103.8	97.6	85.2	75.9	66.6	58.9	54.2	49.6	44.9	38.7
125.5	12.5°	116.2	105.3	89.8	74.3	63.5	54.2	49.6	43.4	38.7	34.1
145.6	15°	127.0	113.1	91.4	74.3	60.4	49.6	43.4	37.2	32.5	26.3
182.8	17.5°	142.5	119.3	89.8	69.7	55.8	43.4	37.2	32.5	24.8	15.5
271.1	20°	168.8	123.9	86.7	65.1	48.0	35.6	27.9	21.7	10.8	3.1
407.4	22.5°	210.6	136.3	83.6	58.9	41.8	27.9	18.6	7.7	0.0	0.0
619.6	25°	291.2	158.0	83.6	55.8	37.2	20.1	6.2	0.0	0.0	0.0
879.8	27.5°	387.2	187.4	83.6	48.0	29.4	10.8	0.0	0.0	0.0	0.0
1198.8	30°	484.8	219.9	83.6	41.8	23.2	1.5	0.0	0.0	0.0	0.0
1476.1	32.5°	577.7	247.8	85.2	35.6	15.5	0.0	0.0	0.0	0.0	0.0
1860.2	35°	672.2	252.5	83.6	31.0	9.3	0.0	0.0	0.0	0.0	0.0
2331.1	37.5°	793.0	243.2	79.0	27.9	4.6	0.0	0.0	0.0	0.0	0.0
3066.8	40°	975.8	247.8	74.3	26.3	1.5	0.0	0.0	0.0	0.0	0.0
4378.7	42.5°	1313.5	268.0	68.2	26.3	0.0	0.0	0.0	0.0	0.0	0.0
6974.6	45°	2270.7	359.3	62.0	27.9	0.0	0.0	0.0	0.0	0.0	0.0
10470.5	47.5°	3756.0	645.9	60.4	27.9	0.0	0.0	0.0	0.0	0.0	0.0
12612.6	50°	4793.8	813.2	63.5	29.4	0.0	0.0	0.0	0.0	0.0	0.0
12880.5	52.5°	4786.1	906.1	66.6	31.0	6.2	0.0	0.0	0.0	0.0	0.0
11872.2	55°	4254.8	923.1	71.2	34.1	20.1	0.0	0.0	0.0	0.0	0.0
10202.5	57.5°	3556.2	842.6	82.1	41.8	37.2	0.0	0.0	0.0	0.0	0.0
9940.8	58°	3432.3	805.4	85.2	43.4	40.3	0.0	0.0	0.0	0.0	0.0
8622.7	60°	2812.8	656.7	108.4	54.2	54.2	0.0	0.0	0.0	0.0	0.0
7069.1	62.5°	1942.3	573.1	123.9	69.7	55.8	0.0	0.0	0.0	0.0	0.0
5212.0	65°	1373.9	517.3	134.8	74.3	44.9	0.0	0.0	0.0	0.0	0.0
3703.4	67.5°	1026.9	477.1	148.7	75.9	23.2	0.0	0.0	0.0	0.0	0.0
2323.3	70°	786.8	447.6	182.8	80.5	6.2	0.0	0.0	0.0	0.0	0.0
1384.7	72.5°	641.2	413.6	221.5	83.6	0.0	0.0	0.0	0.0	0.0	0.0
830.2	75°	531.3	373.3	213.7	91.4	0.0	0.0	0.0	0.0	0.0	0.0
443.0	77.5°	353.1	289.6	195.2	91.4	0.0	0.0	0.0	0.0	0.0	0.0
158.0	80°	123.9	114.6	151.8	80.5	0.0	0.0	0.0	0.0	0.0	0.0
32.5	82.5°	18.6	15.5	21.7	27.9	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°
89.8	0°	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
63.5	2.5°	63.5	63.5	62.0	63.5	63.5	66.6	74.3	85.2	97.6	102.2
54.2	5°	52.7	51.1	49.6	49.6	49.6	54.2	60.4	72.8	86.7	92.9
44.9	7.5°	43.4	41.8	40.3	38.7	38.7	41.8	49.6	63.5	77.4	83.6
37.2	10°	35.6	32.5	31.0	29.4	29.4	32.5	40.3	54.2	69.7	75.9
31.0	12.5°	29.4	24.8	21.7	20.1	18.6	23.2	31.0	43.4	60.4	68.2
23.2	15°	20.1	15.5	10.8	9.3	7.7	12.4	20.1	34.1	51.1	60.4
12.4	17.5°	10.8	4.6	1.5	0.0	0.0	3.1	9.3	24.8	41.8	49.6
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.4	31.0	38.7
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	18.6	26.3
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	13.9
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
0.0	30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	12.4
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°
89.8	0°	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
106.9	2.5°	110.0	108.4	105.3	102.2	102.2	102.2	106.9	111.5	116.2	116.2
96.0	5°	102.2	102.2	100.7	97.6	97.6	99.1	105.3	113.1	119.3	120.8
88.3	7.5°	94.5	97.6	94.5	92.9	94.5	96.0	102.2	111.5	120.8	123.9
82.1	10°	89.8	91.4	91.4	89.8	89.8	92.9	99.1	111.5	123.9	128.6
74.3	12.5°	83.6	86.7	85.2	85.2	85.2	88.3	96.0	110.0	127.0	133.2
66.6	15°	77.4	82.1	82.1	80.5	80.5	82.1	92.9	108.4	131.7	142.5
57.3	17.5°	71.2	75.9	77.4	74.3	74.3	77.4	88.3	108.4	134.8	153.3
46.5	20°	58.9	66.6	71.2	66.6	66.6	69.7	80.5	102.2	136.3	164.2
34.1	22.5°	46.5	54.2	60.4	58.9	58.9	60.4	74.3	97.6	137.9	182.8
20.1	25°	34.1	41.8	46.5	49.6	49.6	54.2	68.2	94.5	144.0	221.5
9.3	27.5°	20.1	29.4	35.6	38.7	40.3	46.5	63.5	91.4	154.9	277.3
0.0	30°	9.3	17.0	24.8	31.0	31.0	41.8	58.9	88.3	168.8	357.8
0.0	32.5°	0.0	7.7	12.4	21.7	23.2	34.1	54.2	85.2	189.0	435.2
0.0	35°	0.0	0.0	6.2	17.0	17.0	27.9	49.6	82.1	219.9	494.1
0.0	37.5°	0.0	0.0	0.0	12.4	13.9	24.8	48.0	80.5	226.1	498.7
0.0	40°	0.0	0.0	0.0	9.3	10.8	23.2	48.0	82.1	204.5	487.9
0.0	42.5°	0.0	0.0	0.0	6.2	7.7	23.2	48.0	85.2	184.3	500.3
0.0	45°	0.0	0.0	0.0	4.6	6.2	24.8	46.5	83.6	173.5	565.3
0.0	47.5°	0.0	0.0	0.0	6.2	9.3	24.8	44.9	82.1	175.0	780.6
0.0	50°	0.0	0.0	0.0	7.7	10.8	24.8	46.5	79.0	192.1	1200.4
0.0	52.5°	0.0	0.0	0.0	6.2	9.3	27.9	51.1	77.4	209.1	1561.3
0.0	55°	0.0	0.0	0.0	1.5	4.6	35.6	55.8	77.4	235.4	1651.1
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	40.3	63.5	82.1	278.8	1615.5
0.0	58°	0.0	0.0	0.0	0.0	0.0	40.3	65.1	82.1	281.9	1584.5
0.0	60°	0.0	0.0	0.0	0.0	0.0	40.3	71.2	91.4	303.6	1411.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	34.1	85.2	114.6	316.0	1109.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	27.9	100.7	125.5	325.3	882.9
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	26.3	103.8	127.0	329.9	703.2
0.0	70°	0.0	0.0	0.0	0.0	0.0	27.9	102.2	136.3	345.4	571.5
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	31.0	92.9	150.2	345.4	506.5
0.0	75°	0.0	0.0	0.0	0.0	0.0	32.5	86.7	168.8	314.4	438.3
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	31.0	85.2	196.7	280.3	360.9
0.0	80°	3.1	4.6	4.6	3.1	3.1	26.3	83.6	199.8	238.5	247.8
1.5	82.5°	9.3	12.4	10.8	7.7	7.7	23.2	74.3	167.3	123.9	106.9
9.3	85°	17.0	20.1	20.1	17.0	17.0	21.7	46.5	60.4	41.8	34.1
17.0	87.5°	23.2	26.3	26.3	23.2	23.2	21.7	20.1	18.6	17.0	17.0
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: SP1-2407-184-1

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-740-U-5WQ

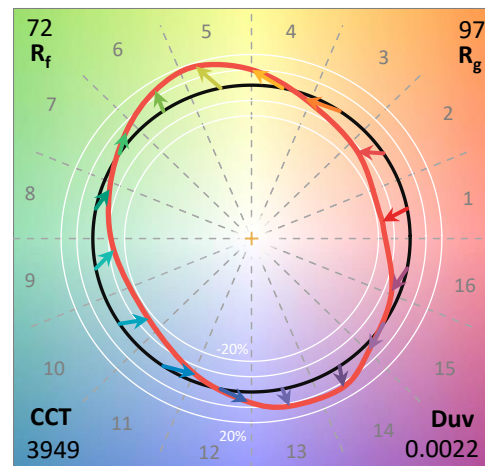
Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-1
 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-740-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 4000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3949	CRI (Ra):	70.7		
CIE u':	0.2248	R1:	68.0	R9:	-36.7
CIE v':	0.5053	R2:	76.0	R10:	45.1
Duv:	0.0022	R3:	84.3	R11:	70.7
CIE x:	0.3844	R4:	72.0	R12:	47.1
CIE y:	0.3840	R5:	68.6	R13:	68.5
CIE z:	0.2316	R6:	68.3	R14:	91.1
Peak Wavelength (nm):	440	R7:	77.9	R15:	58.7
Dominant Wavelength (nm):	578	R8:	50.3		
Purity:	30.60026				
Rf:	71.8				
Rg:	96.5				



Test Conditions

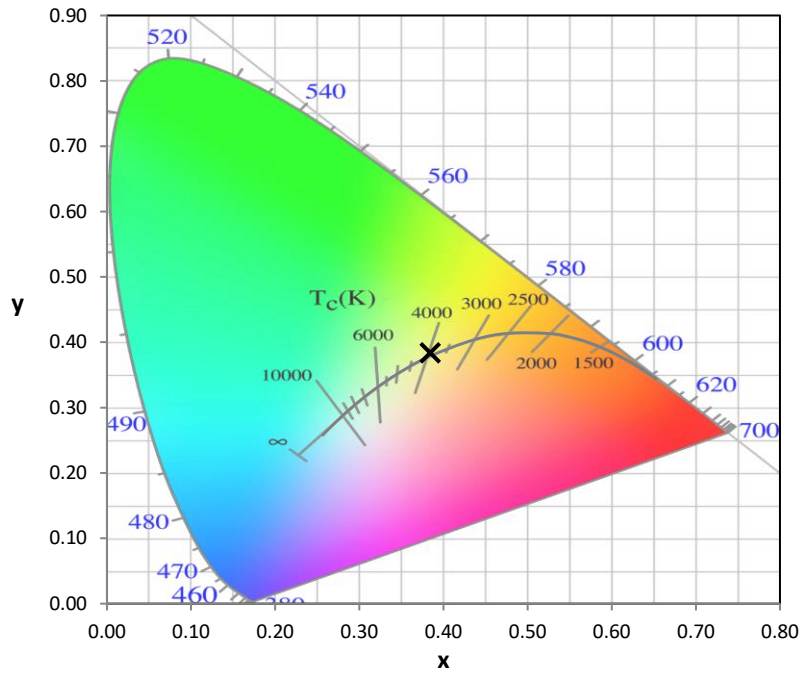
Stabilization Time: 34M
 Operation Time: 1H 34M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-1

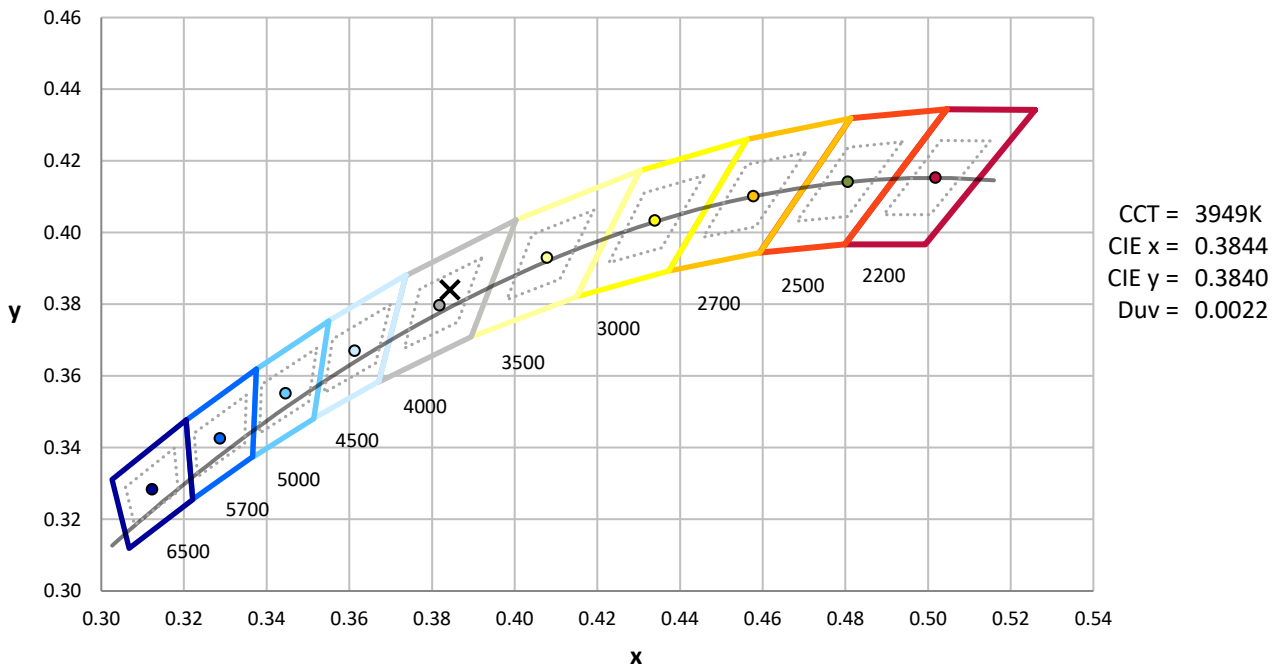
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-1

CIE 1931 Chromaticity Diagram



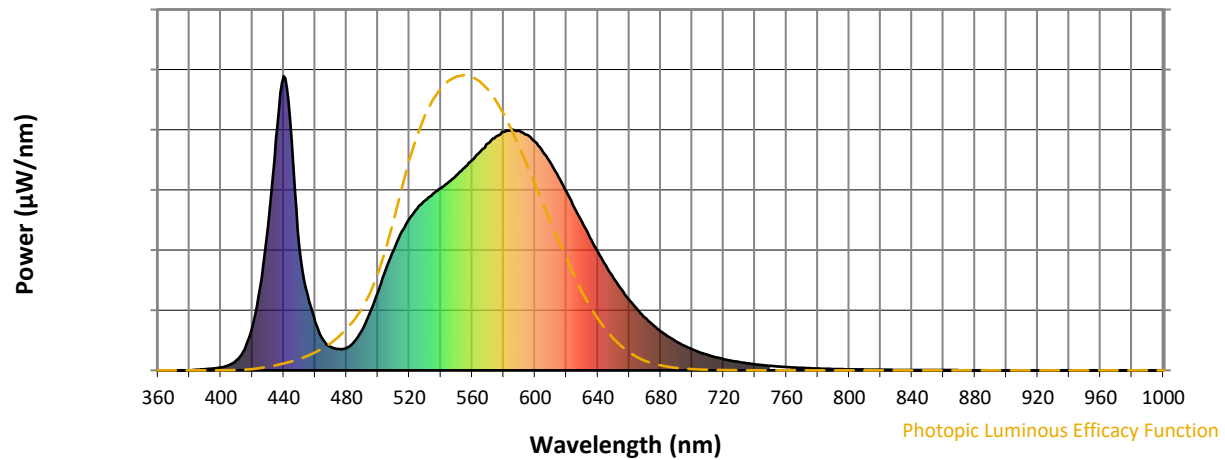
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-1

Photopic Flux vs. Wavelength

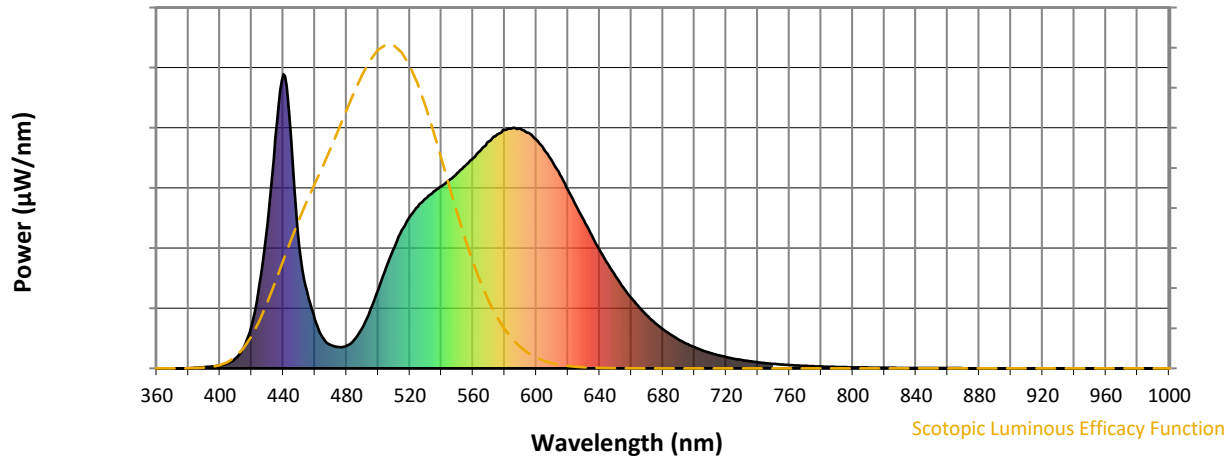


Photopic Lumens: NR

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Scotopic Flux vs. Wavelength



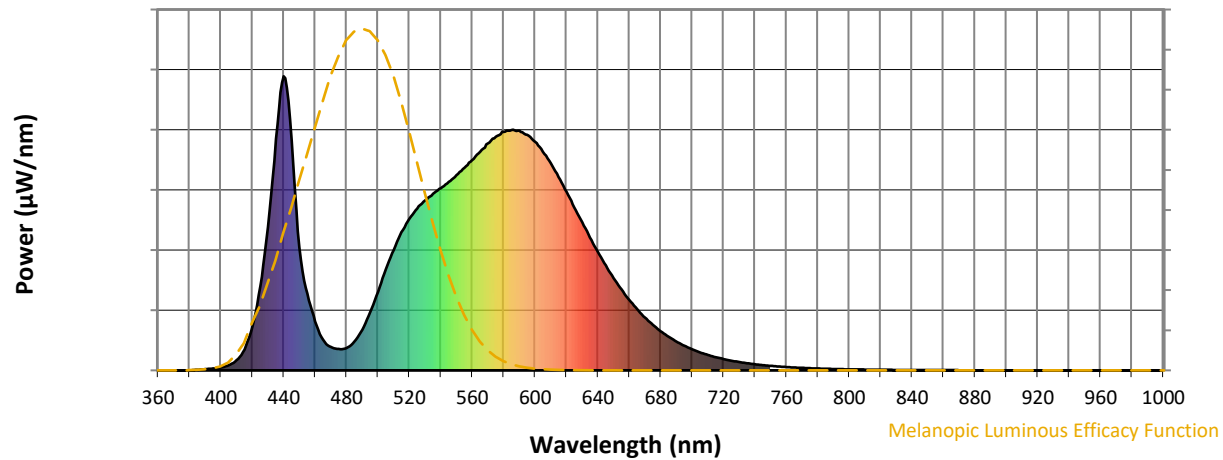
Scotopic Lumens: NR

S/P: 1.47

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.78

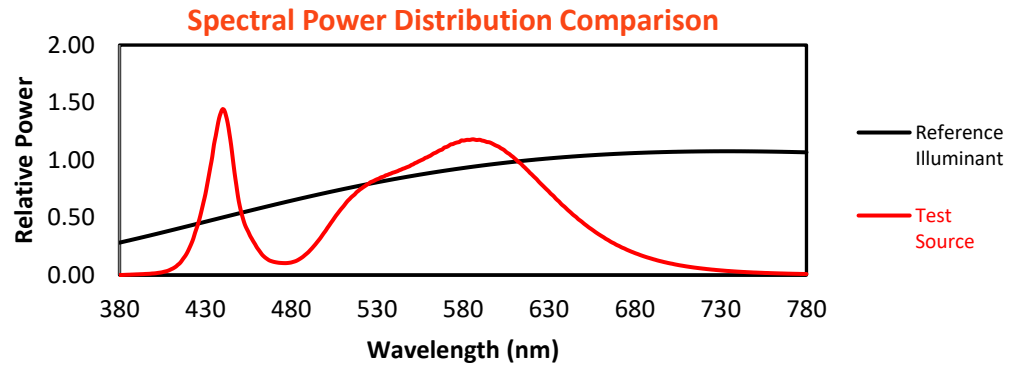
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

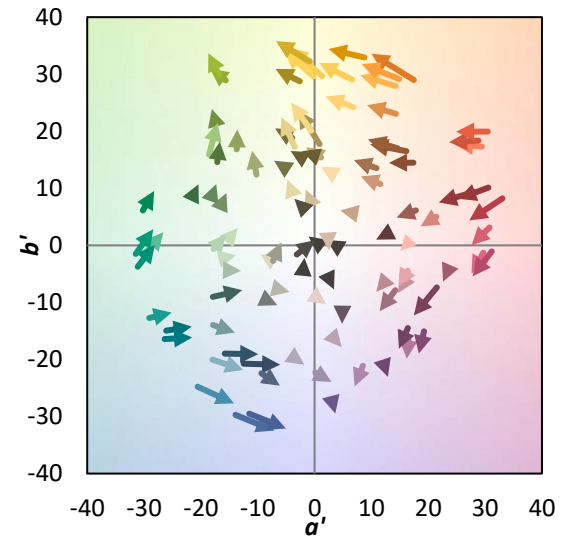
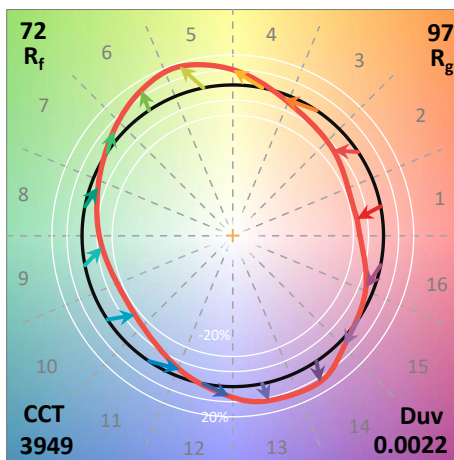
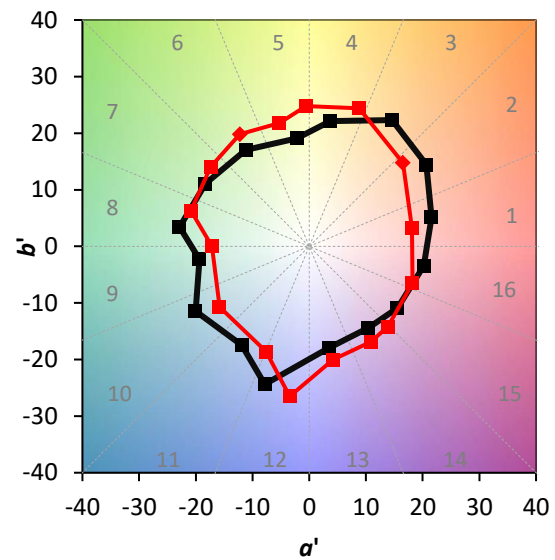
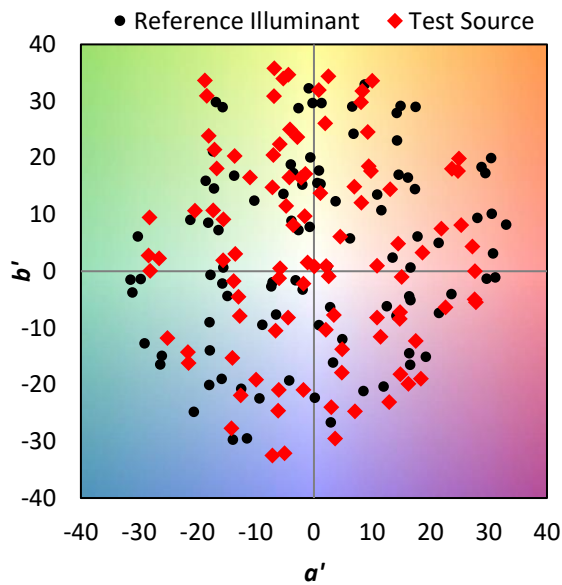
TM-30-18

Summary

$R_f = 71.8$
 $R_g = 96.5$
 $CIE R_a = 70.7$
 $R_g = -36.7$

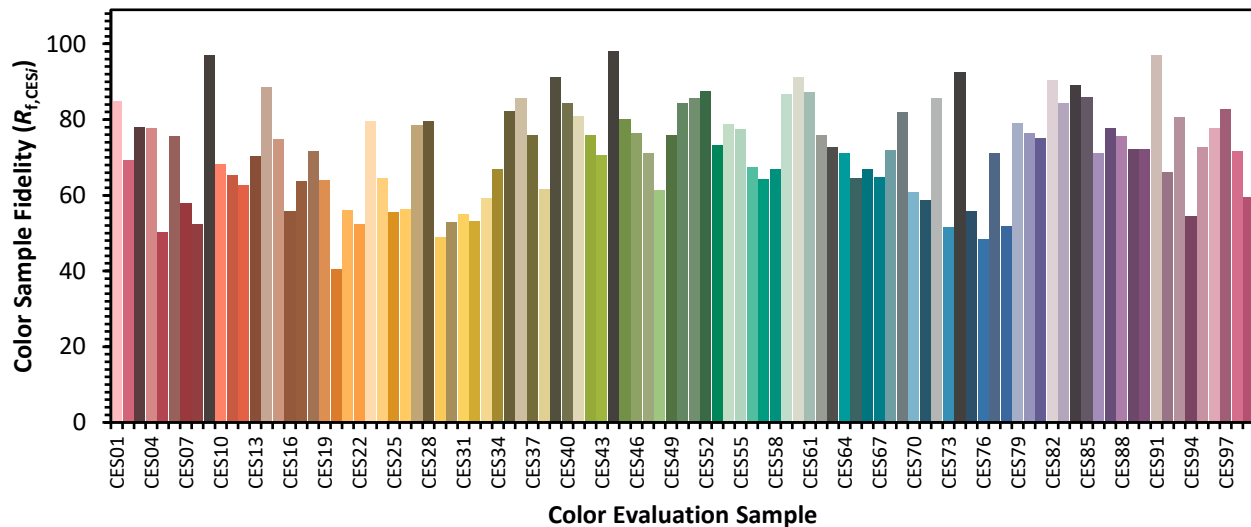


Color Vector Graphics

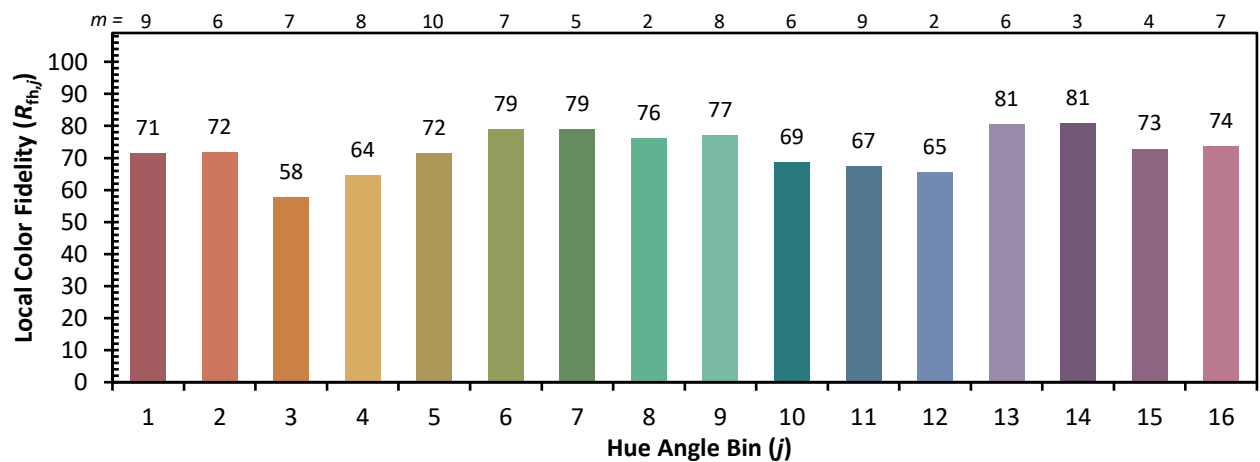
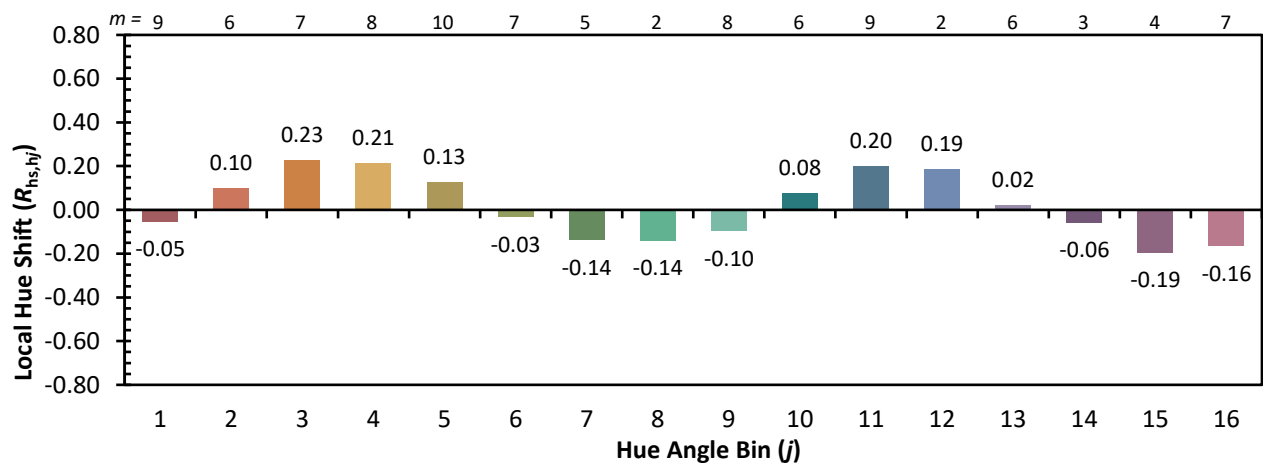
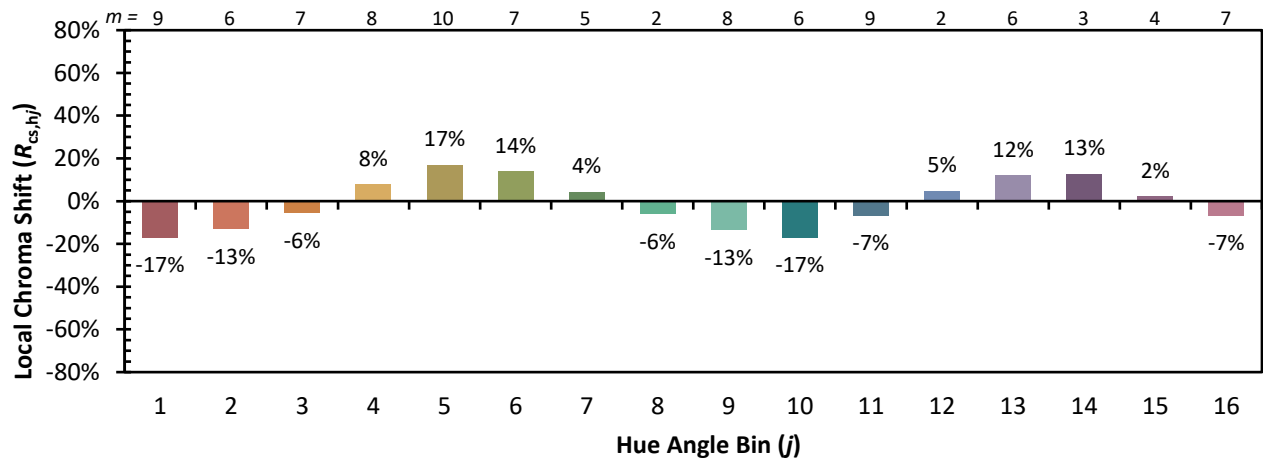


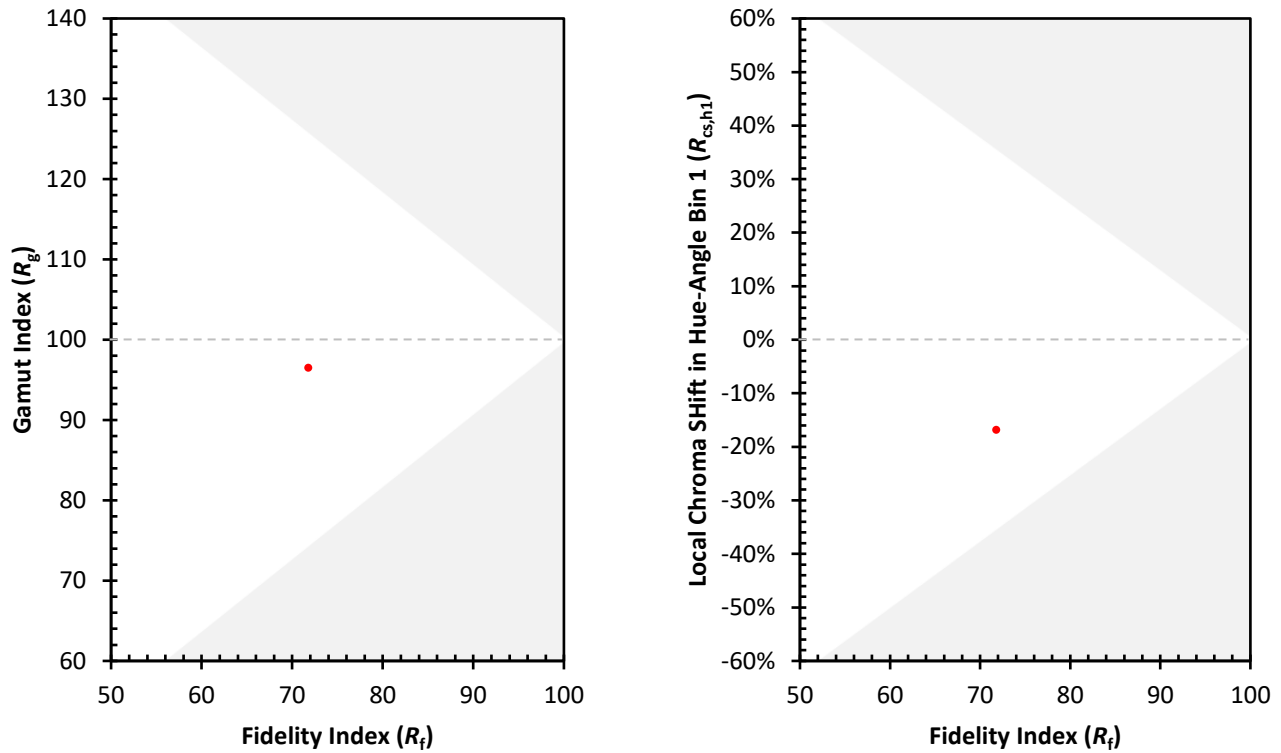
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 56	CES51 = 86	CES76 = 48
CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 64	CES82 = 90
CES08 = 39	CES33 = 59	CES58 = 67	CES83 = 84
CES09 = 29	CES34 = 67	CES59 = 87	CES84 = 89
CES10 = 74	CES35 = 82	CES60 = 91	CES85 = 86
CES11 = 57	CES36 = 86	CES61 = 87	CES86 = 71
CES12 = 63	CES37 = 76	CES62 = 76	CES87 = 78
CES13 = 42	CES38 = 62	CES63 = 73	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 71	CES89 = 72
CES15 = 71	CES40 = 84	CES65 = 64	CES90 = 72
CES16 = 46	CES41 = 81	CES66 = 67	CES91 = 97
CES17 = 49	CES42 = 76	CES67 = 65	CES92 = 66
CES18 = 56	CES43 = 71	CES68 = 72	CES93 = 81
CES19 = 72	CES44 = 98	CES69 = 82	CES94 = 55
CES20 = 65	CES45 = 80	CES70 = 61	CES95 = 73
CES21 = 86	CES46 = 76	CES71 = 59	CES96 = 78
CES22 = 78	CES47 = 71	CES72 = 86	CES97 = 83
CES23 = 92	CES48 = 61	CES73 = 52	CES98 = 72
CES24 = 91	CES49 = 76	CES74 = 93	CES99 = 60
CES25 = 72	CES50 = 84	CES75 = 56	



Color Rendition by Hue-Angle Bin



Measure Comparisons


(END OF REPORT)