

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: P1065162

Luminaire Tested: **GLAN-SA8B-722-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1065162
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8B-722-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 8xLight Square PACKAGE
70CRI 2200K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

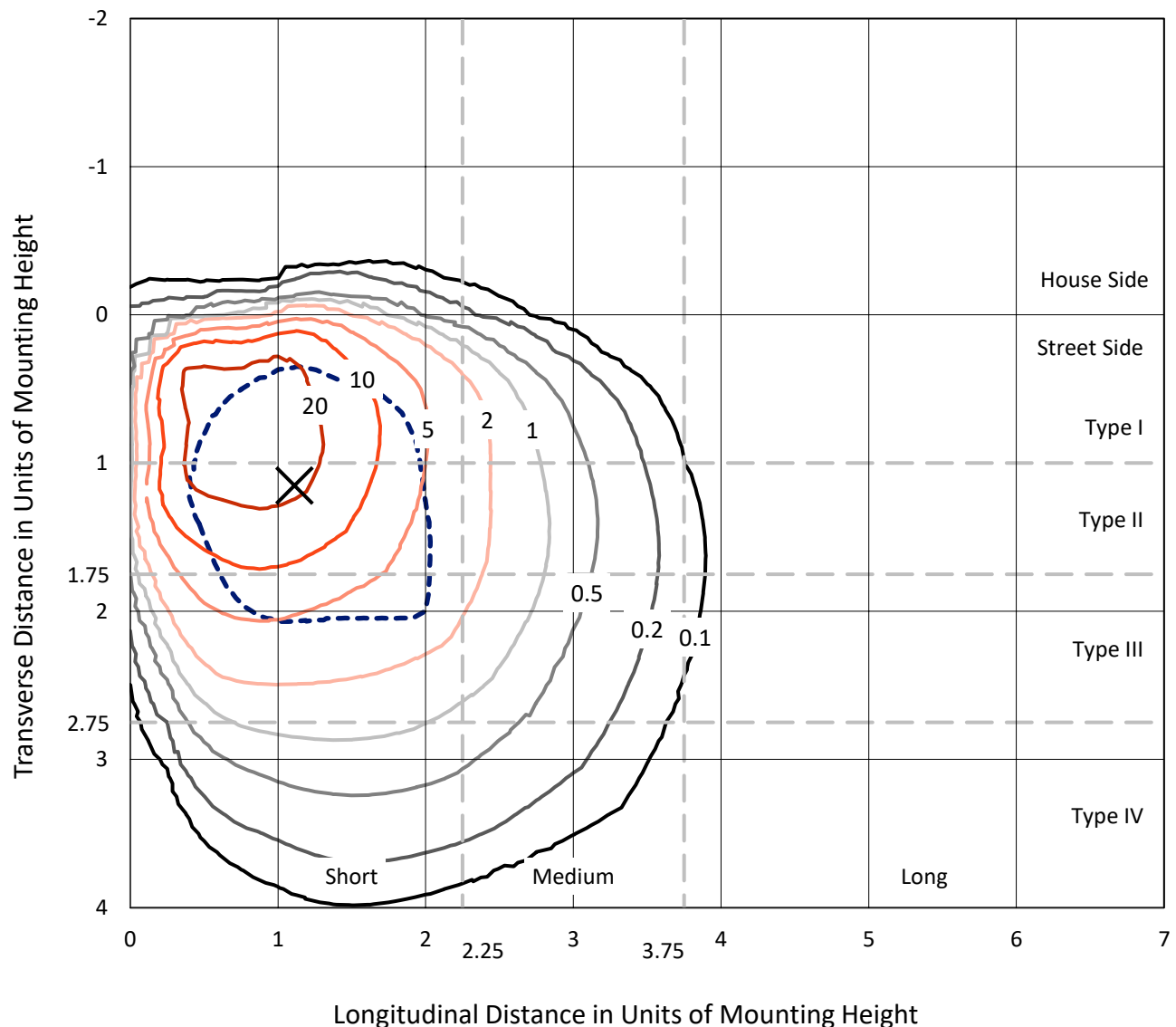
Lumens per Lamp: N/A
Luminaire Lumens: 23842.5 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 282.8
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

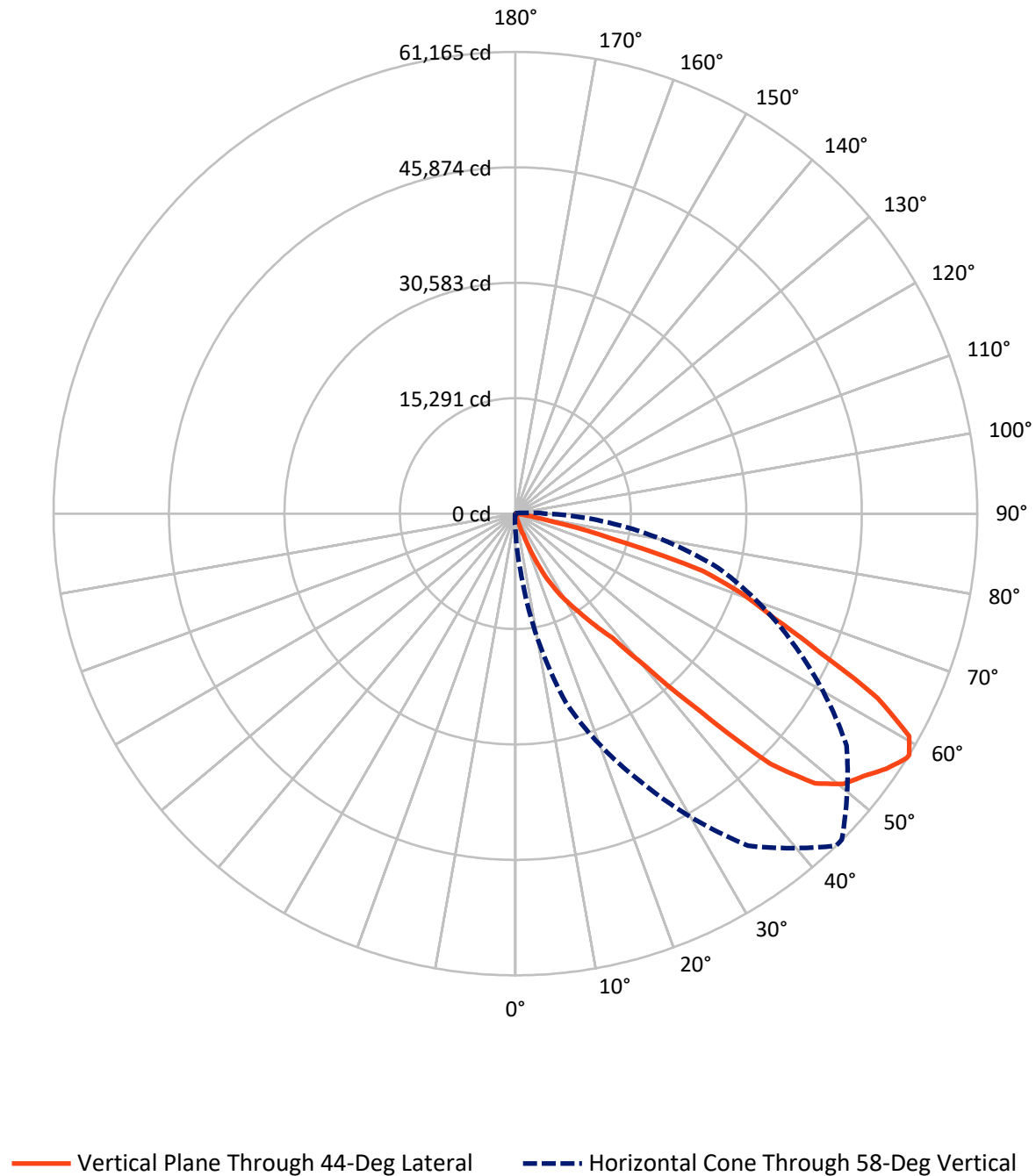
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 41.5 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	162.8	0.0	162.8
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	23679.7	0.0	23679.7
	% Fixture	99.3	0.0	99.3
Total	Lumens	23842.5	0.0	23842.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.3	0.0
10°-20°	52.3	0.2
20°-30°	564.8	2.4
30°-40°	1670.4	7.0
40°-50°	4978.7	20.9
50°-60°	7900.0	33.1
60°-70°	6589.5	27.6
70°-80°	2032.3	8.5
80°-90°	45.1	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°	23842.5	100.0
0°-180°	23842.5	100.0

Coefficient of Utilization



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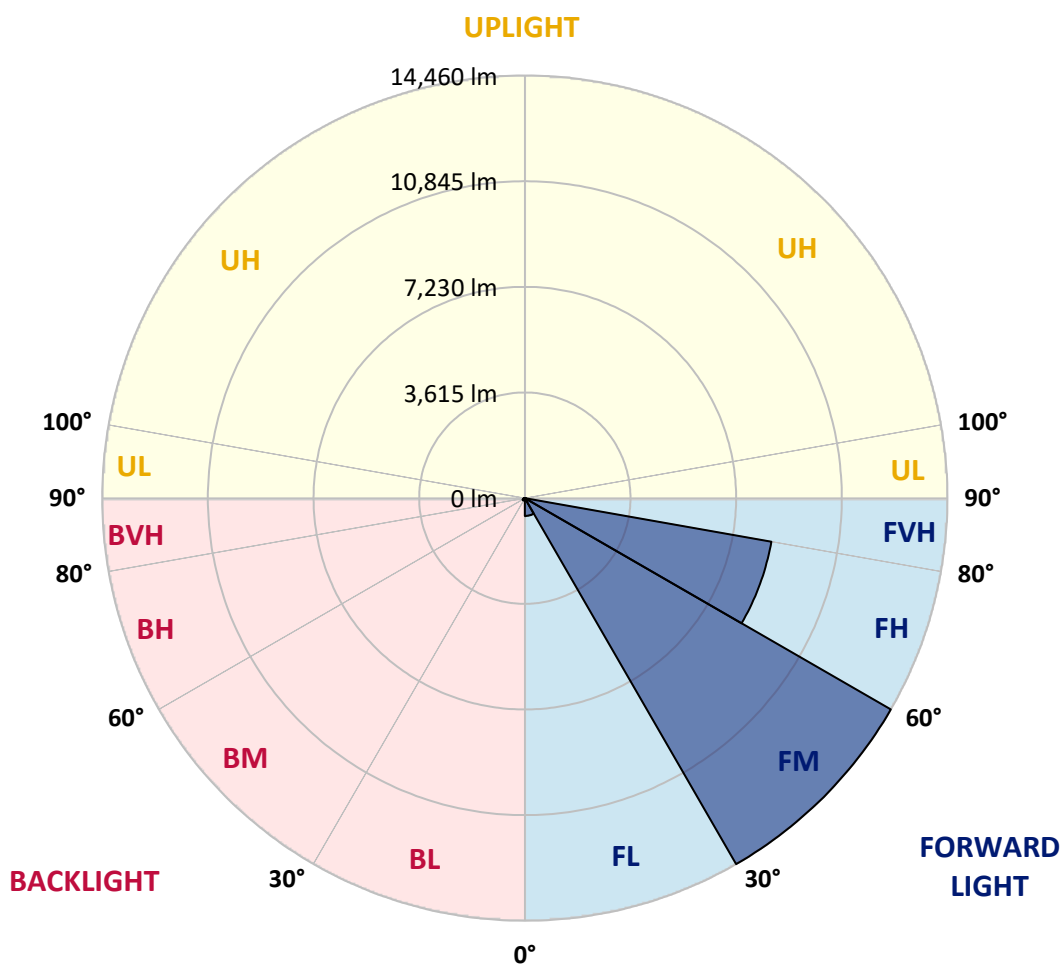
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	610.5	2.6			
FM	(30°-60°)	14460.0	60.6			
FH	(60°-80°)	8566.3	35.9			G4/12000
FVH	(80°-90°)	43.0	0.2			G1/100
BL	(0°-30°)	15.9	0.1	B0/110		
BM	(30°-60°)	89.1	0.4	B0/220		
BH	(60°-80°)	55.6	0.2	B0/110		G0/110
BVH	(80°-90°)	2.2	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°	85°
0°	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5
2.5°	135.1	135.1	129.7	122.5	115.3	108.1	106.3	102.7	100.9	99.1	97.3
5°	140.5	140.5	138.7	133.3	126.1	120.7	120.7	115.3	111.7	108.1	104.5
7.5°	144.1	145.9	149.5	147.7	144.1	138.7	138.7	135.1	129.7	120.7	115.3
10°	149.5	154.9	162.1	165.7	167.5	167.5	165.7	163.9	154.9	142.3	127.9
12.5°	154.9	165.7	183.7	201.7	212.5	226.9	225.1	221.5	198.1	171.1	145.9
15°	165.7	181.9	219.7	272.0	353.0	403.4	423.3	405.2	327.8	230.5	169.3
17.5°	178.3	205.3	318.8	569.1	933.0	1105.9	1210.3	1125.7	745.7	437.7	212.5
20°	190.9	250.4	592.6	1475.1	2420.7	2986.2	3142.9	2898.0	1860.5	833.9	315.2
22.5°	212.5	351.2	1201.3	3049.3	5216.0	6064.3	6224.6	5441.1	3514.0	1646.2	473.7
25°	257.6	509.7	2071.3	4969.2	7784.4	9216.2	9149.6	8123.0	5700.5	2629.6	720.4
27.5°	322.4	742.1	3132.1	7060.3	10244.7	11507.2	11658.5	10388.8	7598.8	3867.0	1023.0
30°	416.1	1028.4	4270.4	8735.3	12216.9	13582.1	13607.3	12294.3	9297.3	4953.0	1394.1
32.5°	506.1	1298.6	5266.4	10354.5	14160.3	15657.0	15768.6	14153.1	10565.3	6084.1	1716.5
35°	574.6	1475.1	6275.0	11777.4	16119.9	18182.1	18174.9	16256.7	12067.4	7094.5	2163.1
37.5°	580.0	1651.6	7188.2	13232.7	18601.8	20910.8	21139.5	19025.0	13882.9	8344.5	2710.7
40°	567.3	1849.7	8344.5	15502.1	23073.9	26616.7	26818.4	24152.8	17524.7	10484.2	3566.2
42.5°	581.8	2193.7	10221.3	19693.3	30499.9	35588.0	35977.0	33174.5	24219.4	14850.1	5091.7
45°	657.4	2840.3	14153.1	26704.9	41084.9	47287.9	47158.3	43122.0	32009.2	21496.2	8110.4
47.5°	907.8	4423.5	19981.4	33529.3	47849.9	53373.9	53485.5	48552.3	36555.2	26605.9	12175.5
50°	1395.9	6768.5	24878.6	37136.9	50758.7	56300.7	56196.2	50495.7	38282.4	29122.0	14666.4
52.5°	1815.5	8465.2	27335.3	38403.1	51131.5	57746.9	57739.7	51007.2	38550.8	29338.2	14978.0
55°	1920.0	8593.1	27355.1	38471.5	51967.2	59639.9	59877.6	52266.2	38898.4	28394.4	13805.4
57.5°	1878.5	7607.9	26213.2	38867.8	53454.9	61104.2	61116.8	53485.5	39780.9	27816.2	11863.9
58°	1842.5	7453.0	25982.7	39092.9	53710.7	61165.4	61134.8	53541.4	40499.6	27794.6	11559.5
60°	1640.8	6471.4	25083.9	39667.5	53330.6	59908.3	59621.9	52322.0	40393.3	27573.1	10026.7
62.5°	1289.6	5048.5	24199.6	39002.9	49256.5	53822.3	53941.2	46322.5	36823.5	26281.7	8220.2
65°	1026.6	3762.5	22355.3	34211.9	40560.8	44199.0	44642.1	37668.3	30735.8	22254.4	6060.7
67.5°	817.7	2719.7	18753.1	27238.1	32095.6	36888.4	37210.8	31625.6	23812.4	17051.0	4306.4
70°	664.6	1838.9	12944.5	19920.2	26472.6	31861.5	31881.3	26272.7	17773.3	11172.2	2701.7
72.5°	589.0	1273.4	7514.2	14527.7	21465.5	25962.9	25438.8	21319.6	13659.6	6617.2	1610.2
75°	509.7	844.7	3685.1	8881.2	13014.8	13103.0	13302.9	9889.9	6828.0	3146.5	965.4
77.5°	419.7	599.8	1451.7	2426.1	3903.0	4996.3	5181.8	3926.4	2271.2	774.5	515.1
80°	288.2	284.6	390.8	743.9	1116.7	1399.5	1305.8	1010.4	594.4	297.2	183.7
82.5°	124.3	135.1	176.5	212.5	172.9	167.5	160.3	102.7	79.2	61.2	37.8
85°	39.6	36.0	37.8	37.8	30.6	23.4	23.4	10.8	0.0	0.0	0.0
87.5°	19.8	16.2	16.2	14.4	9.0	3.6	1.8	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5
2.5°	95.5	95.5	91.9	88.3	86.5	82.9	81.0	79.2	77.4	75.6	73.8
5°	100.9	99.1	93.7	88.3	82.9	77.4	73.8	70.2	66.6	64.8	63.0
7.5°	109.9	106.3	95.5	86.5	79.2	72.0	68.4	63.0	59.4	54.0	52.2
10°	120.7	113.5	99.1	88.3	77.4	68.4	63.0	57.6	52.2	45.0	43.2
12.5°	135.1	122.5	104.5	86.5	73.8	63.0	57.6	50.4	45.0	39.6	36.0
15°	147.7	131.5	106.3	86.5	70.2	57.6	50.4	43.2	37.8	30.6	27.0
17.5°	165.7	138.7	104.5	81.0	64.8	50.4	43.2	37.8	28.8	18.0	14.4
20°	196.3	144.1	100.9	75.6	55.8	41.4	32.4	25.2	12.6	3.6	0.0
22.5°	244.9	158.5	97.3	68.4	48.6	32.4	21.6	9.0	0.0	0.0	0.0
25°	338.6	183.7	97.3	64.8	43.2	23.4	7.2	0.0	0.0	0.0	0.0
27.5°	450.3	217.9	97.3	55.8	34.2	12.6	0.0	0.0	0.0	0.0	0.0
30°	563.7	255.8	97.3	48.6	27.0	1.8	0.0	0.0	0.0	0.0	0.0
32.5°	671.8	288.2	99.1	41.4	18.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	781.7	293.6	97.3	36.0	10.8	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	922.2	282.8	91.9	32.4	5.4	0.0	0.0	0.0	0.0	0.0	0.0
40°	1134.7	288.2	86.5	30.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1527.3	311.6	79.2	30.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2640.4	417.9	72.0	32.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4367.7	751.1	70.2	32.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5574.4	945.6	73.8	34.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5565.4	1053.6	77.4	36.0	7.2	0.0	0.0	0.0	0.0	0.0	0.0
55°	4947.6	1073.5	82.9	39.6	23.4	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4135.3	979.8	95.5	48.6	43.2	0.0	0.0	0.0	0.0	0.0	0.0
58°	3991.2	936.6	99.1	50.4	46.8	0.0	0.0	0.0	0.0	0.0	0.0
60°	3270.8	763.7	126.1	63.0	63.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	2258.6	666.4	144.1	81.0	64.8	0.0	0.0	0.0	0.0	0.0	0.0
65°	1597.6	601.6	156.7	86.5	52.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1194.1	554.7	172.9	88.3	27.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	915.0	520.5	212.5	93.7	7.2	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	745.7	480.9	257.6	97.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	617.8	434.1	248.6	106.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	410.7	336.8	226.9	106.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	144.1	133.3	176.5	93.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	21.6	18.0	25.2	32.4	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	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5
2.5°	73.8	73.8	72.0	73.8	73.8	77.4	86.5	99.1	113.5	118.9	124.3
5°	61.2	59.4	57.6	57.6	57.6	63.0	70.2	84.7	100.9	108.1	111.7
7.5°	50.4	48.6	46.8	45.0	45.0	48.6	57.6	73.8	90.1	97.3	102.7
10°	41.4	37.8	36.0	34.2	34.2	37.8	46.8	63.0	81.0	88.3	95.5
12.5°	34.2	28.8	25.2	23.4	21.6	27.0	36.0	50.4	70.2	79.2	86.5
15°	23.4	18.0	12.6	10.8	9.0	14.4	23.4	39.6	59.4	70.2	77.4
17.5°	12.6	5.4	1.8	0.0	0.0	3.6	10.8	28.8	48.6	57.6	66.6
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.4	36.0	45.0	54.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	21.6	30.6	39.6
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	16.2	23.4
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	10.8
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	10.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	14.4	19.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
0°	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5
2.5°	127.9	126.1	122.5	118.9	118.9	118.9	124.3	129.7	135.1	135.1
5°	118.9	118.9	117.1	113.5	113.5	115.3	122.5	131.5	138.7	140.5
7.5°	109.9	113.5	109.9	108.1	109.9	111.7	118.9	129.7	140.5	144.1
10°	104.5	106.3	106.3	104.5	104.5	108.1	115.3	129.7	144.1	149.5
12.5°	97.3	100.9	99.1	99.1	99.1	102.7	111.7	127.9	147.7	154.9
15°	90.1	95.5	95.5	93.7	93.7	95.5	108.1	126.1	153.1	165.7
17.5°	82.9	88.3	90.1	86.5	86.5	90.1	102.7	126.1	156.7	178.3
20°	68.4	77.4	82.9	77.4	77.4	81.0	93.7	118.9	158.5	190.9
22.5°	54.0	63.0	70.2	68.4	68.4	70.2	86.5	113.5	160.3	212.5
25°	39.6	48.6	54.0	57.6	57.6	63.0	79.2	109.9	167.5	257.6
27.5°	23.4	34.2	41.4	45.0	46.8	54.0	73.8	106.3	180.1	322.4
30°	10.8	19.8	28.8	36.0	36.0	48.6	68.4	102.7	196.3	416.1
32.5°	0.0	9.0	14.4	25.2	27.0	39.6	63.0	99.1	219.7	506.1
35°	0.0	0.0	7.2	19.8	19.8	32.4	57.6	95.5	255.8	574.6
37.5°	0.0	0.0	0.0	14.4	16.2	28.8	55.8	93.7	263.0	580.0
40°	0.0	0.0	0.0	10.8	12.6	27.0	55.8	95.5	237.7	567.3
42.5°	0.0	0.0	0.0	7.2	9.0	27.0	55.8	99.1	214.3	581.8
45°	0.0	0.0	0.0	5.4	7.2	28.8	54.0	97.3	201.7	657.4
47.5°	0.0	0.0	0.0	7.2	10.8	28.8	52.2	95.5	203.5	907.8
50°	0.0	0.0	0.0	9.0	12.6	28.8	54.0	91.9	223.3	1395.9
52.5°	0.0	0.0	0.0	7.2	10.8	32.4	59.4	90.1	243.1	1815.5
55°	0.0	0.0	0.0	1.8	5.4	41.4	64.8	90.1	273.8	1920.0
57.5°	0.0	0.0	0.0	0.0	0.0	46.8	73.8	95.5	324.2	1878.5
58°	0.0	0.0	0.0	0.0	0.0	46.8	75.6	95.5	327.8	1842.5
60°	0.0	0.0	0.0	0.0	0.0	46.8	82.9	106.3	353.0	1640.8
62.5°	0.0	0.0	0.0	0.0	0.0	39.6	99.1	133.3	367.4	1289.6
65°	0.0	0.0	0.0	0.0	0.0	32.4	117.1	145.9	378.2	1026.6
67.5°	0.0	0.0	0.0	0.0	0.0	30.6	120.7	147.7	383.6	817.7
70°	0.0	0.0	0.0	0.0	0.0	32.4	118.9	158.5	401.6	664.6
72.5°	0.0	0.0	0.0	0.0	0.0	36.0	108.1	174.7	401.6	589.0
75°	0.0	0.0	0.0	0.0	0.0	37.8	100.9	196.3	365.6	509.7
77.5°	0.0	0.0	0.0	0.0	0.0	36.0	99.1	228.7	326.0	419.7
80°	3.6	5.4	5.4	3.6	3.6	30.6	97.3	232.3	277.4	288.2
82.5°	10.8	14.4	12.6	9.0	9.0	27.0	86.5	194.5	144.1	124.3
85°	19.8	23.4	23.4	19.8	19.8	25.2	54.0	70.2	48.6	39.6
87.5°	27.0	30.6	30.6	27.0	27.0	25.2	23.4	21.6	19.8	19.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-2

Test Date: 10/09/2024

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

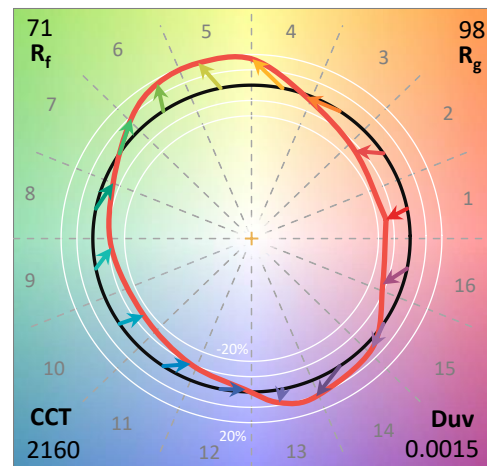
Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-2
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/15/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGraw-Edison
 Catalog Number: **GSS-SB1A-722-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2200K CCT 26 LEDS

Spectral Parameters

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



Test Conditions

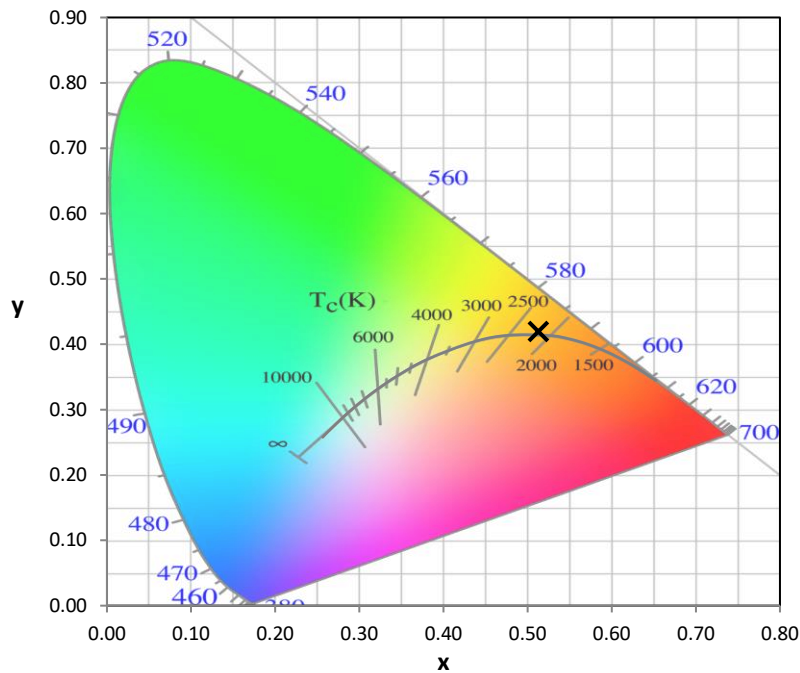
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-2

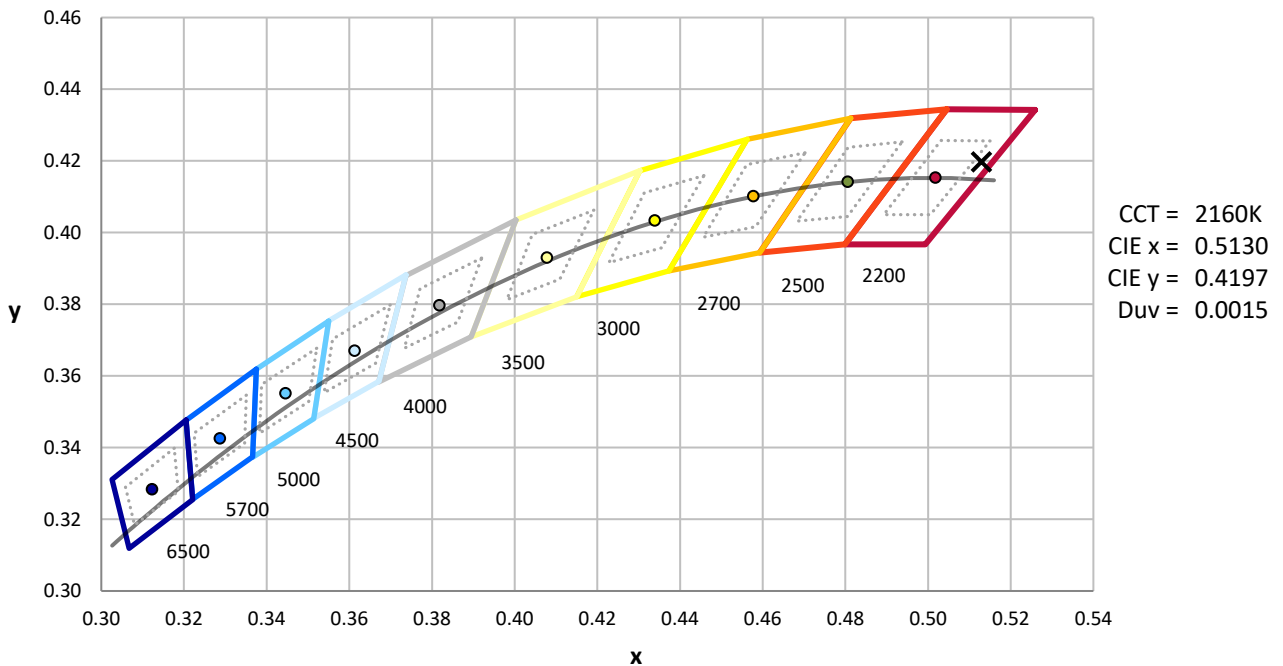
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



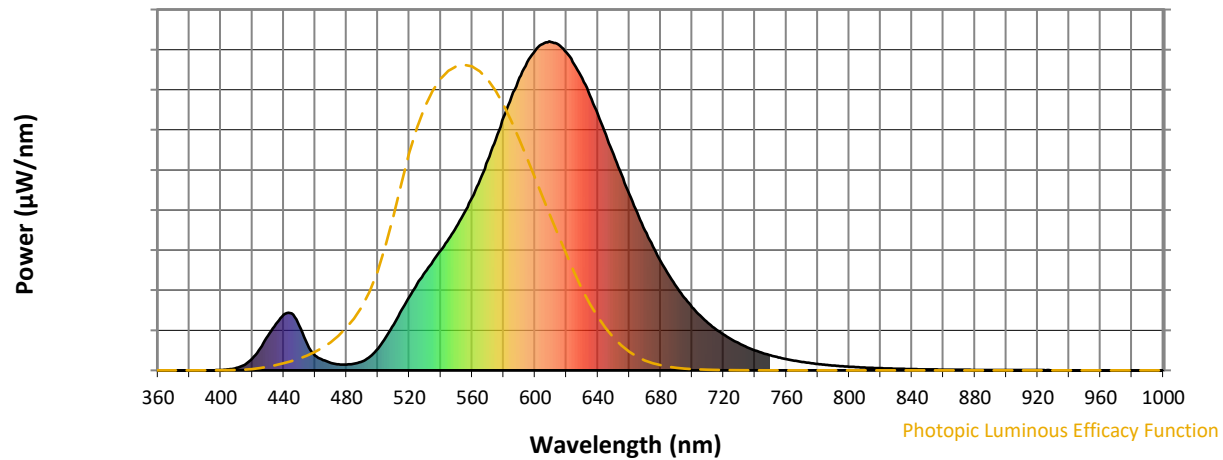
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-2

Photopic Flux vs. Wavelength

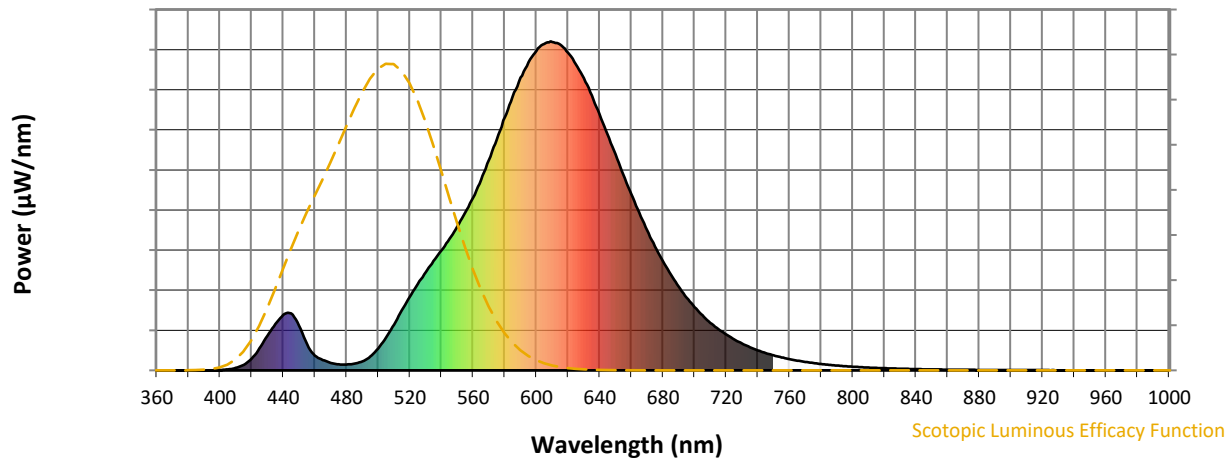


Photopic Lumens: NR

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

REPORT NUMBER: SP1-2407-184-2

Scotopic Flux vs. Wavelength



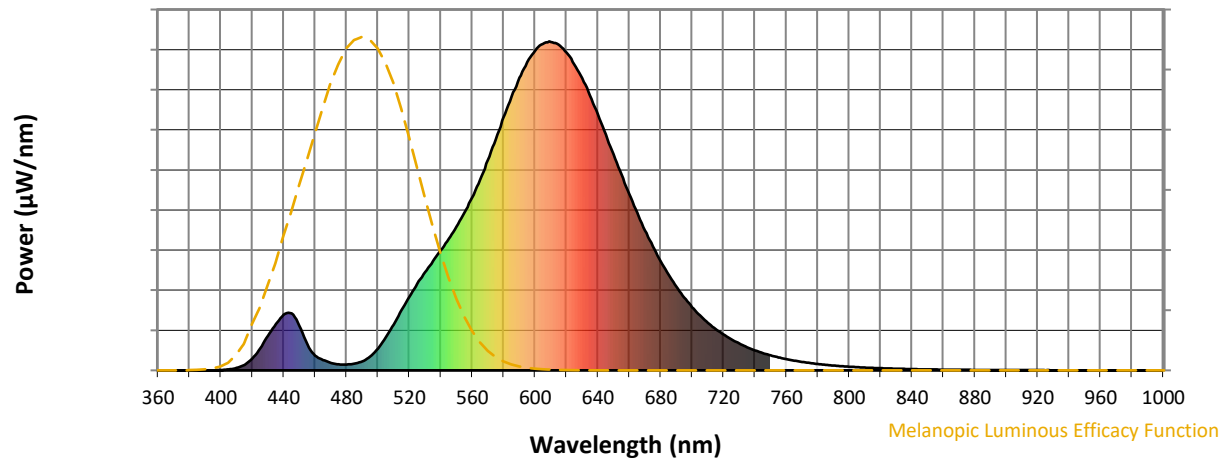
Scotopic Lumens: NR

S/P: 0.8

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

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.21

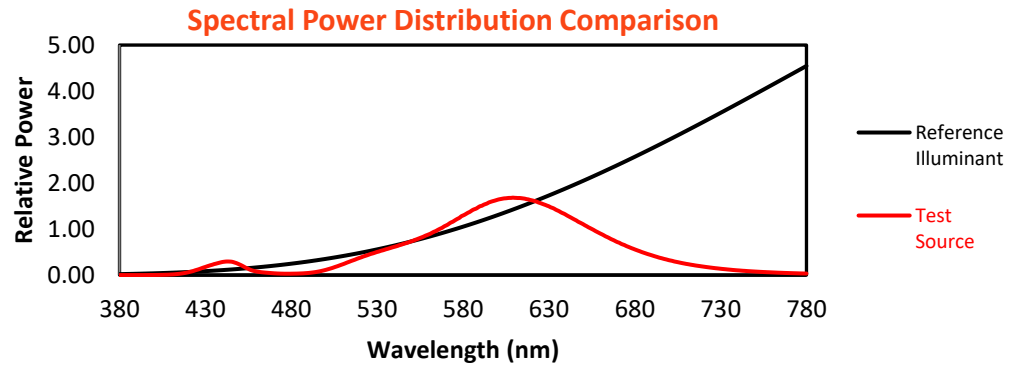
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	27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

REPORT NUMBER: SP1-2407-184-2

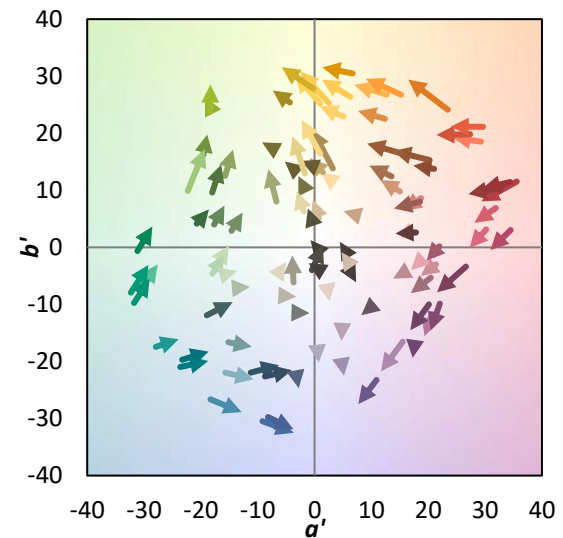
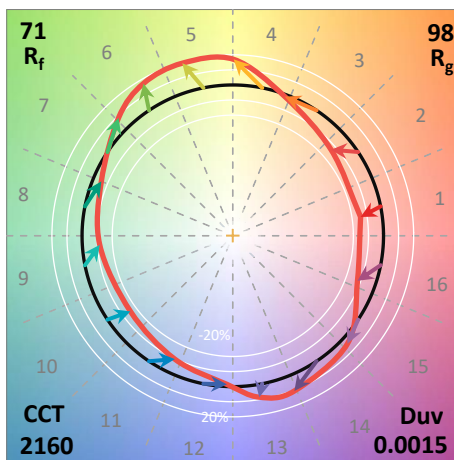
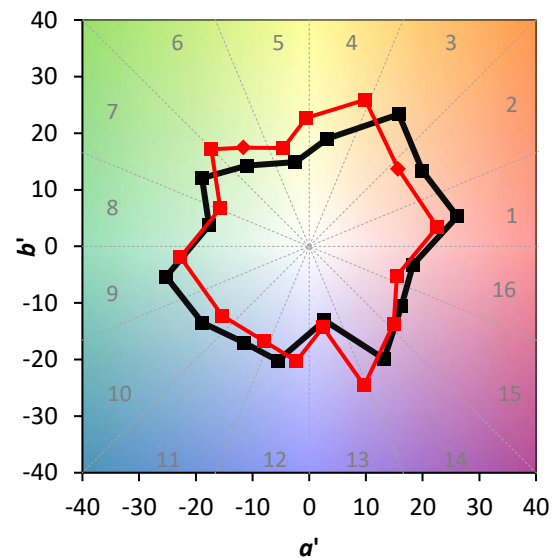
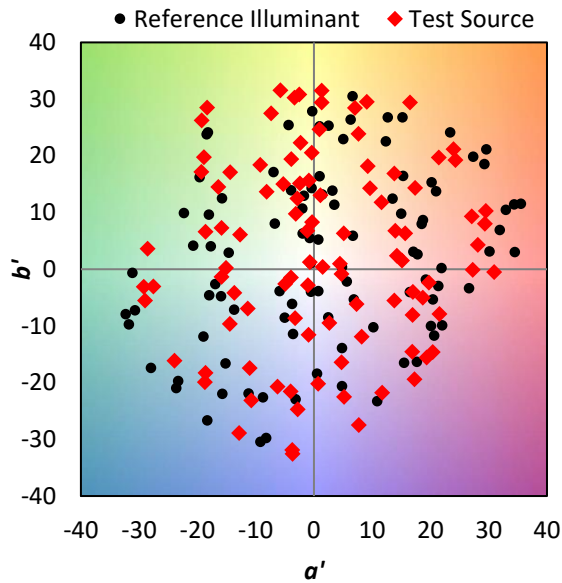
TM-30-18

Summary

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

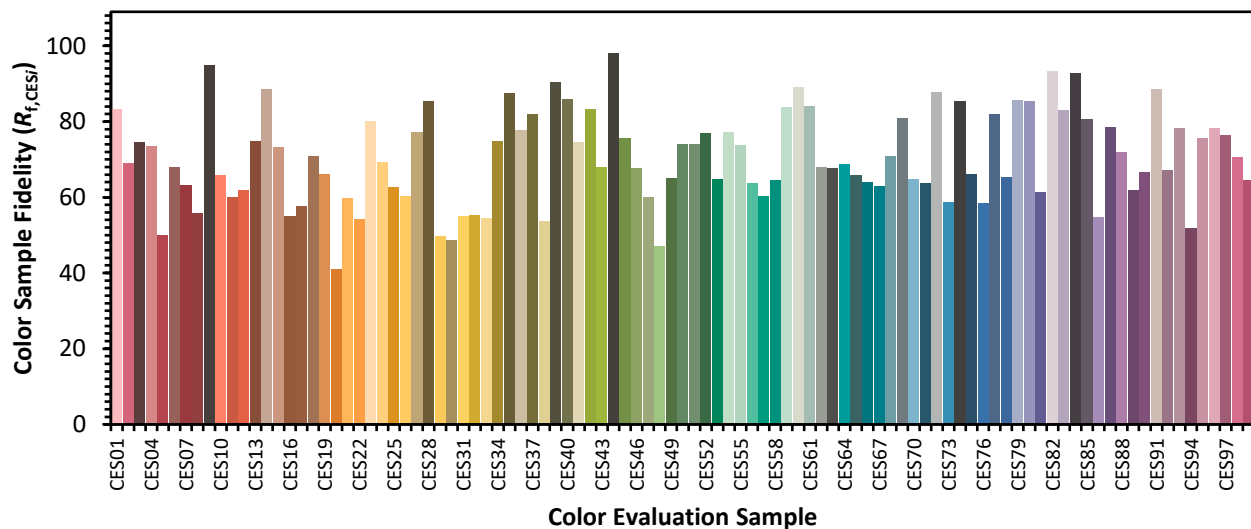


Color Vector Graphics

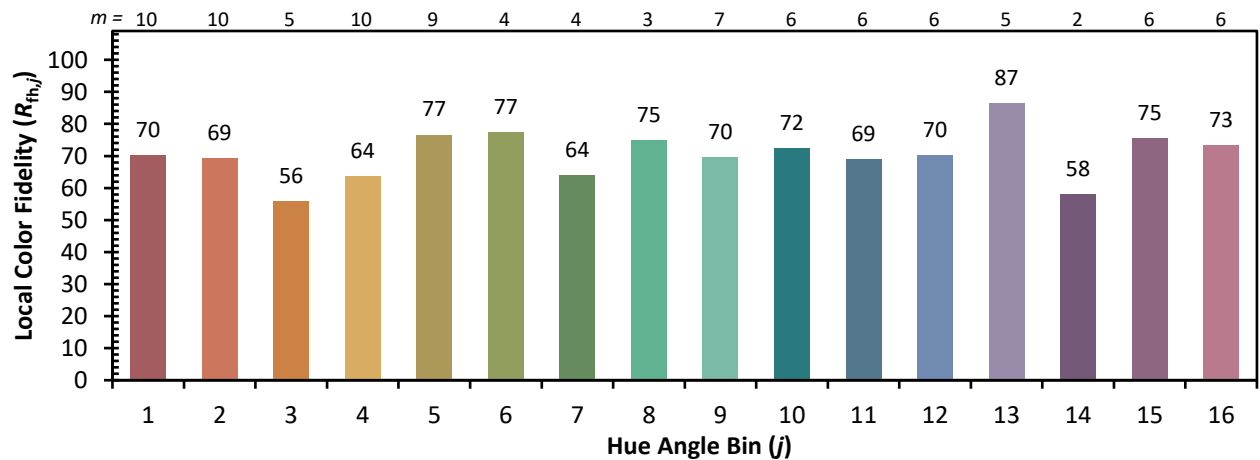
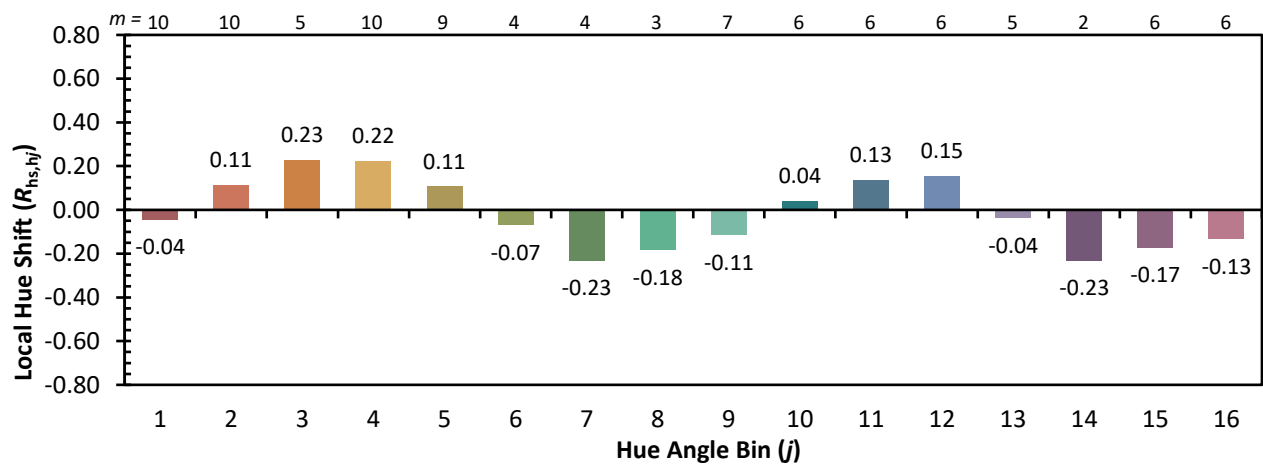
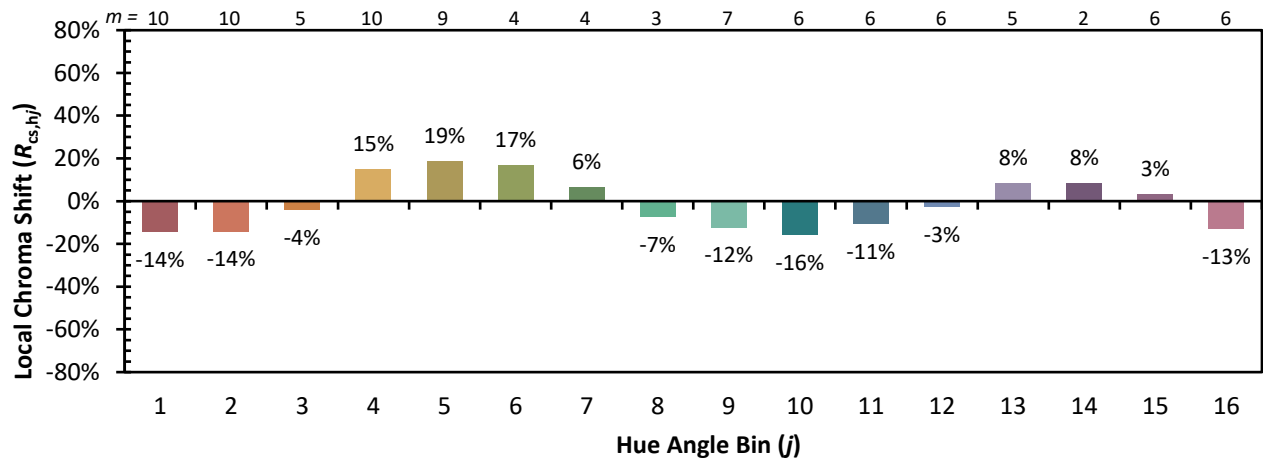


Individual Sample Fidelity Index ($R_{f,i}$)

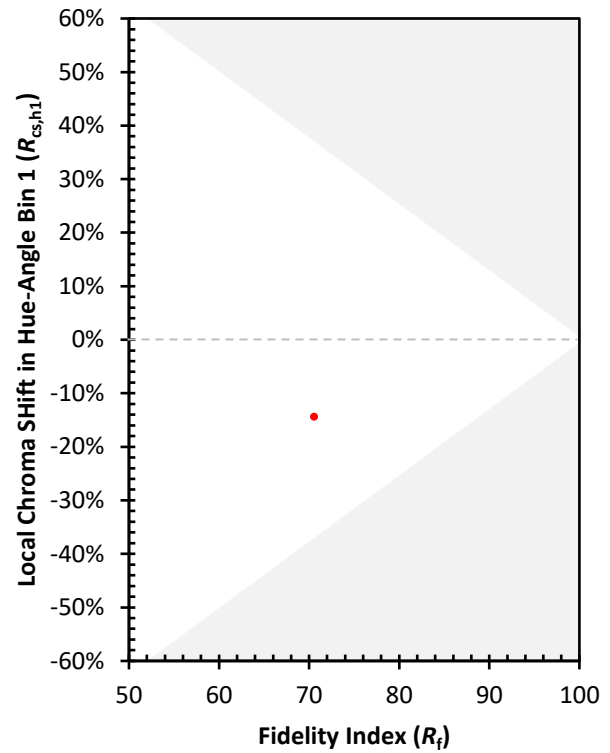
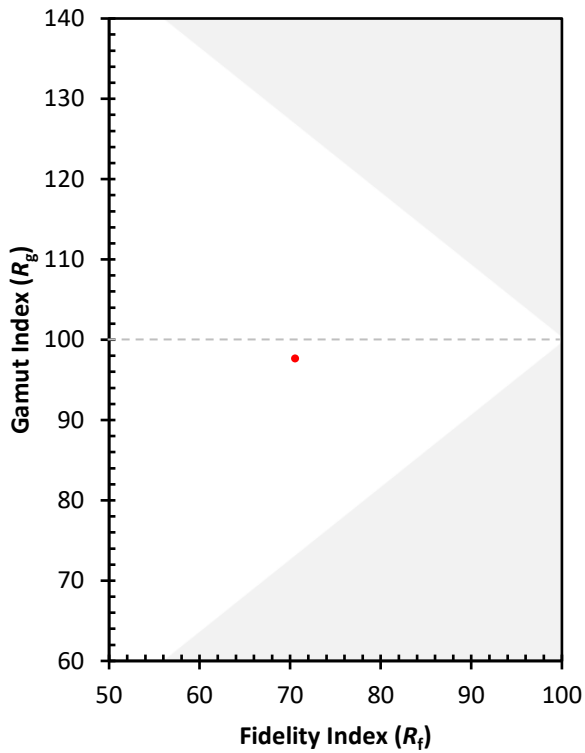
CES01 = 87	CES26 = 60	CES51 = 74	CES76 = 58
CES02 = 65	CES27 = 77	CES52 = 77	CES77 = 82
CES03 = 32	CES28 = 85	CES53 = 65	CES78 = 65
CES04 = 72	CES29 = 50	CES54 = 77	CES79 = 86
CES05 = 52	CES30 = 49	CES55 = 74	CES80 = 85
CES06 = 53	CES31 = 55	CES56 = 64	CES81 = 61
CES07 = 44	CES32 = 55	CES57 = 60	CES82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



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)