

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P1049602

Luminaire Tested: **GALN-SA9B-730-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049602
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-730-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 9xLight Square PACKAGE
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (126) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35107.2 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G5

Input Watts (W): 312.7
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

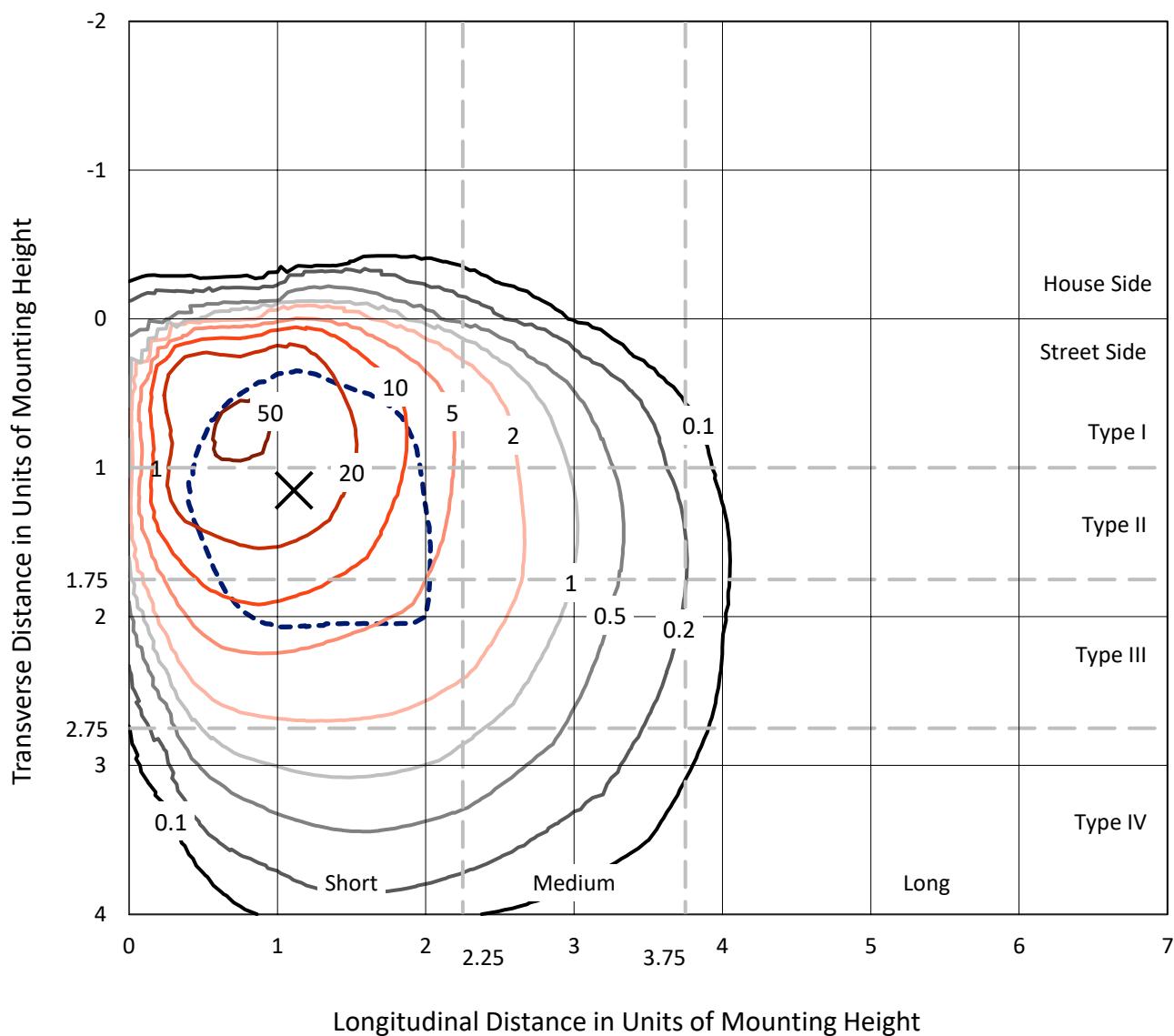
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

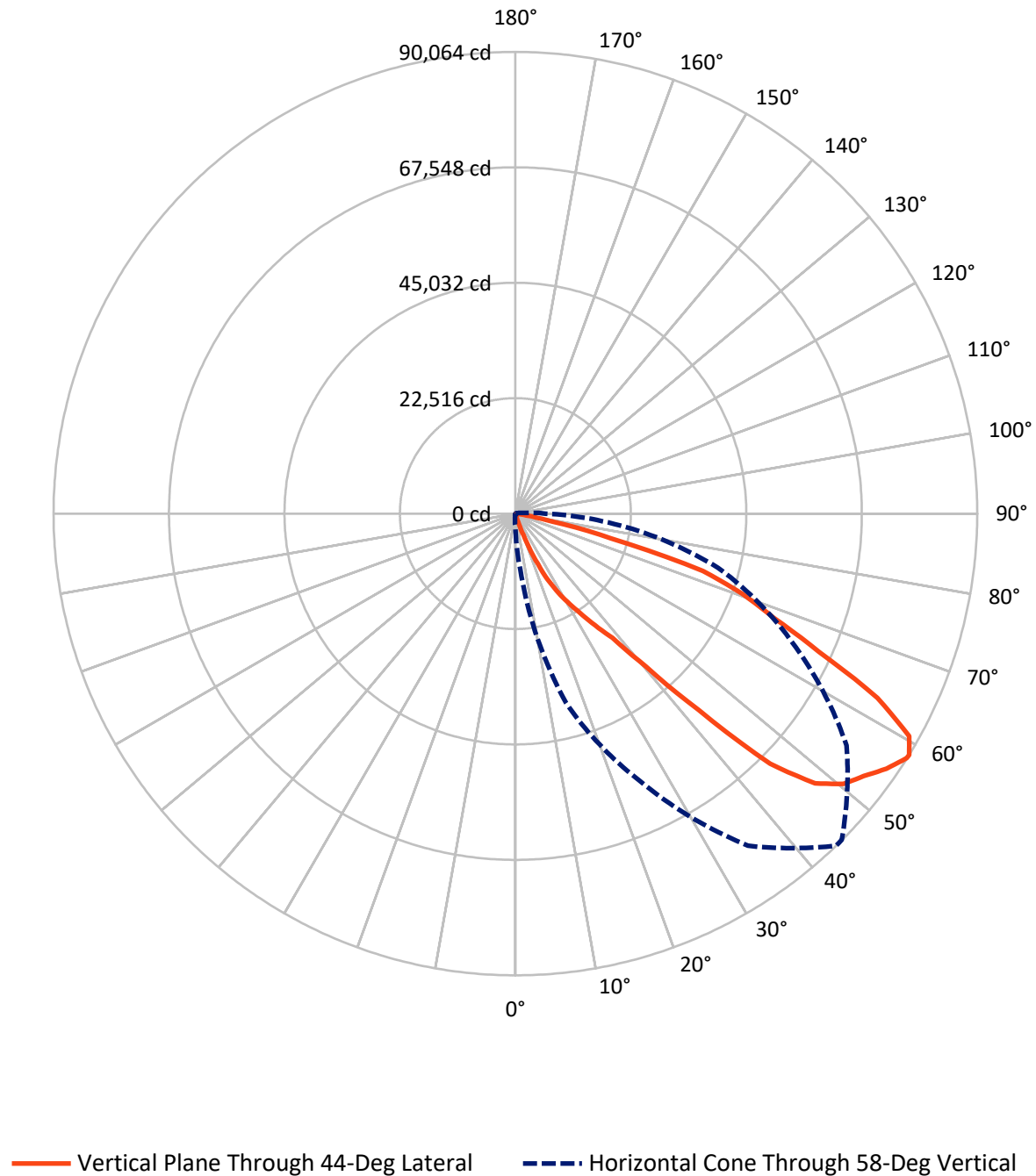


Based on 20 foot mounting height. Maximum calculated value = 61.1 fc

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	239.7	0.0	239.7
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	34867.5	0.0	34867.5
	% Fixture	99.3	0.0	99.3
Total	Lumens	35107.2	0.0	35107.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.7	0.0
10°-20°	77.0	0.2
20°-30°	831.7	2.4
30°-40°	2459.6	7.0
40°-50°	7331.0	20.9
50°-60°	11632.4	33.1
60°-70°	9702.8	27.6
70°-80°	2992.5	8.5
80°-90°	66.5	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°	35107.2	100.0
0°-180°	35107.2	100.0



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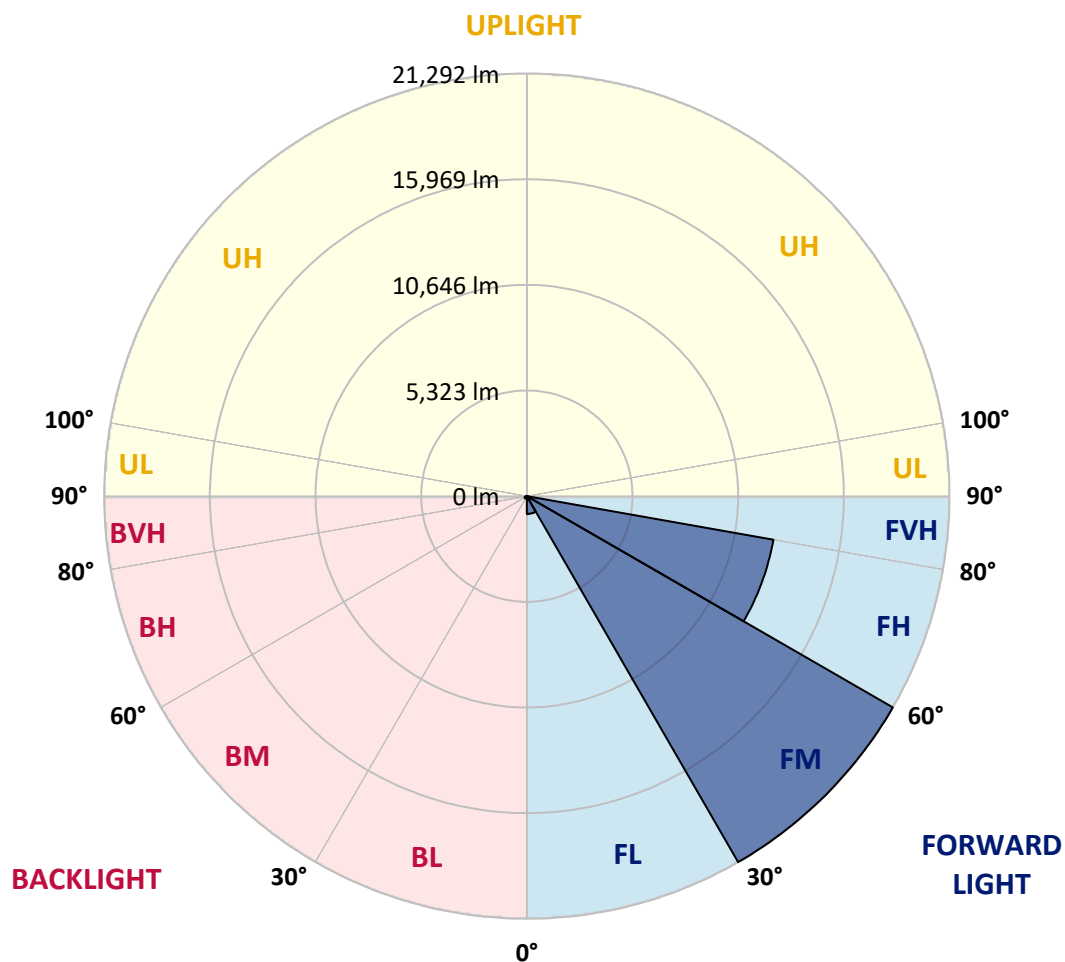
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	899.0	2.6			
FM	(30°-60°)	21291.8	60.6			
FH	(60°-80°)	12613.5	35.9			G5
FVH	(80°-90°)	63.3	0.2			G1/100
BL	(0°-30°)	23.5	0.1	B0/110		
BM	(30°-60°)	131.2	0.4	B0/220		
BH	(60°-80°)	81.8	0.2	B0/110		G0/110
BVH	(80°-90°)	3.2	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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	153.8	153.8	153.8	153.8	153.8	153.8	153.8	153.8	153.8	153.8
2.5°	198.9	198.9	190.9	180.3	169.7	159.1	156.5	151.2	148.5	145.9
5°	206.9	206.9	204.2	196.3	185.6	177.7	177.7	169.7	164.4	159.1
7.5°	212.2	214.8	220.1	217.5	212.2	204.2	204.2	198.9	190.9	177.7
10°	220.1	228.1	238.7	244.0	246.6	246.6	244.0	241.3	228.1	209.5
12.5°	228.1	244.0	270.5	297.0	312.9	334.2	331.5	326.2	291.7	251.9
15°	244.0	267.9	323.6	400.5	519.8	594.1	623.2	596.7	482.7	339.5
17.5°	262.6	302.3	469.4	838.0	1373.8	1628.4	1782.2	1657.5	1098.0	644.4
20°	281.1	368.6	872.5	2172.0	3564.4	4397.1	4627.8	4267.2	2739.6	1227.9
22.5°	312.9	517.2	1768.9	4489.9	7680.3	8929.5	9165.5	8011.9	5174.2	2424.0
25°	379.2	750.5	3049.9	7317.0	11462.2	13570.6	13472.4	11960.8	8393.8	3872.0
27.5°	474.7	1092.6	4611.9	10396.1	15084.9	16944.0	17166.7	15297.0	11189.0	5694.0
30°	612.6	1514.3	6288.0	12862.5	17988.9	19999.1	20036.3	18102.9	13689.9	7293.1
32.5°	745.2	1912.1	7754.6	15246.7	20850.4	23054.3	23218.7	20839.8	15556.9	8958.6
35°	846.0	2172.0	9239.8	17341.8	23735.9	26772.5	26761.9	23937.4	17768.8	10446.4
37.5°	854.0	2431.9	10584.3	19484.6	27390.4	30790.3	31127.2	28013.6	20442.0	12287.0
40°	835.4	2723.7	12287.0	22826.2	33975.5	39192.1	39489.1	35564.0	25804.5	15437.6
42.5°	856.6	3230.2	15050.4	28997.6	44909.9	52401.9	52974.8	48848.2	35662.2	21866.2
45°	968.0	4182.3	20839.8	39322.0	60496.0	69629.7	69438.7	63495.5	47132.3	31652.3
47.5°	1336.6	6513.4	29421.9	49370.6	70457.1	78591.0	78755.4	71491.4	53826.1	39176.1
50°	2055.3	9966.4	36632.8	54682.7	74740.2	82900.6	82746.7	74353.0	56369.4	42881.1
52.5°	2673.3	12464.7	40250.2	56547.1	75289.2	85030.2	85019.5	75106.2	56764.6	43199.3
55°	2827.1	12653.0	40279.4	56647.9	76519.7	87817.5	88167.5	76960.0	57276.4	41809.6
57.5°	2766.1	11202.3	38598.0	57231.3	78710.3	89973.6	89992.2	78755.4	58575.9	40958.3
58°	2713.1	10974.2	38258.5	57562.8	79086.9	90063.8	90018.7	78837.6	59634.1	40926.5
60°	2416.0	9528.8	36935.2	58408.8	78527.3	88212.6	87790.9	77042.2	59477.6	40600.3
62.5°	1898.9	7433.7	35633.0	57430.2	72528.4	79251.3	79426.4	68208.2	54221.2	38698.8
65°	1511.7	5540.1	32917.3	50375.8	59724.3	65081.4	65733.8	55465.1	45257.3	32768.8
67.5°	1204.0	4004.6	27613.2	40107.0	47259.6	54316.7	54791.4	46567.4	35062.8	25107.0
70°	978.6	2707.7	19060.3	29331.7	38979.9	46914.8	46944.0	38685.5	26170.5	16450.7
72.5°	867.2	1875.0	11064.4	21391.5	31607.2	38229.4	37457.6	31392.4	20113.2	9743.6
75°	750.5	1243.8	5426.1	13077.3	19163.7	19293.7	19588.1	14562.4	10053.9	4633.1
77.5°	617.9	883.1	2137.6	3572.3	5747.0	7356.8	7630.0	5781.5	3344.2	1140.4
80°	424.3	419.0	575.5	1095.3	1644.3	2060.6	1922.7	1487.8	875.2	437.6
82.5°	183.0	198.9	259.9	312.9	254.6	246.6	236.0	151.2	116.7	90.2
85°	58.3	53.0	55.7	55.7	45.1	34.5	34.5	15.9	0.0	0.0
87.5°	29.2	23.9	23.9	21.2	13.3	5.3	2.7	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
153.8	0°	153.8	153.8	153.8	153.8	153.8	153.8	153.8	153.8	153.8	153.8
143.2	2.5°	140.6	140.6	135.3	130.0	127.3	122.0	119.3	116.7	114.0	111.4
153.8	5°	148.5	145.9	137.9	130.0	122.0	114.0	108.7	103.4	98.1	95.5
169.7	7.5°	161.8	156.5	140.6	127.3	116.7	106.1	100.8	92.8	87.5	79.6
188.3	10°	177.7	167.1	145.9	130.0	114.0	100.8	92.8	84.9	76.9	66.3
214.8	12.5°	198.9	180.3	153.8	127.3	108.7	92.8	84.9	74.3	66.3	58.3
249.3	15°	217.5	193.6	156.5	127.3	103.4	84.9	74.3	63.6	55.7	45.1
312.9	17.5°	244.0	204.2	153.8	119.3	95.5	74.3	63.6	55.7	42.4	26.5
464.1	20°	289.1	212.2	148.5	111.4	82.2	61.0	47.7	37.1	18.6	5.3
697.5	22.5°	360.7	233.4	143.2	100.8	71.6	47.7	31.8	13.3	0.0	0.0
1060.8	25°	498.6	270.5	143.2	95.5	63.6	34.5	10.6	0.0	0.0	0.0
1506.4	27.5°	663.0	320.9	143.2	82.2	50.4	18.6	0.0	0.0	0.0	0.0
2052.7	30°	830.1	376.6	143.2	71.6	39.8	2.7	0.0	0.0	0.0	0.0
2527.4	32.5°	989.2	424.3	145.9	61.0	26.5	0.0	0.0	0.0	0.0	0.0
3185.1	35°	1151.0	432.3	143.2	53.0	15.9	0.0	0.0	0.0	0.0	0.0
3991.3	37.5°	1357.9	416.4	135.3	47.7	8.0	0.0	0.0	0.0	0.0	0.0
5251.1	40°	1670.8	424.3	127.3	45.1	2.7	0.0	0.0	0.0	0.0	0.0
7497.4	42.5°	2248.9	458.8	116.7	45.1	0.0	0.0	0.0	0.0	0.0	0.0
11942.2	45°	3887.9	615.3	106.1	47.7	0.0	0.0	0.0	0.0	0.0	0.0
17927.9	47.5°	6431.2	1105.9	103.4	47.7	0.0	0.0	0.0	0.0	0.0	0.0
21595.7	50°	8208.1	1392.3	108.7	50.4	0.0	0.0	0.0	0.0	0.0	0.0
22054.5	52.5°	8194.8	1551.5	114.0	53.0	10.6	0.0	0.0	0.0	0.0	0.0
20328.0	55°	7285.2	1580.6	122.0	58.3	34.5	0.0	0.0	0.0	0.0	0.0
17469.1	57.5°	6089.1	1442.7	140.6	71.6	63.6	0.0	0.0	0.0	0.0	0.0
17020.9	58°	5877.0	1379.1	145.9	74.3	69.0	0.0	0.0	0.0	0.0	0.0
14764.0	60°	4816.1	1124.5	185.6	92.8	92.8	0.0	0.0	0.0	0.0	0.0
12104.0	62.5°	3325.7	981.3	212.2	119.3	95.5	0.0	0.0	0.0	0.0	0.0
8924.2	65°	2352.4	885.8	230.7	127.3	76.9	0.0	0.0	0.0	0.0	0.0
6341.1	67.5°	1758.3	816.8	254.6	130.0	39.8	0.0	0.0	0.0	0.0	0.0
3978.1	70°	1347.2	766.4	312.9	137.9	10.6	0.0	0.0	0.0	0.0	0.0
2370.9	72.5°	1098.0	708.1	379.2	143.2	0.0	0.0	0.0	0.0	0.0	0.0
1421.5	75°	909.7	639.1	366.0	156.5	0.0	0.0	0.0	0.0	0.0	0.0
758.5	77.5°	604.7	495.9	334.2	156.5	0.0	0.0	0.0	0.0	0.0	0.0
270.5	80°	212.2	196.3	259.9	137.9	0.0	0.0	0.0	0.0	0.0	0.0
55.7	82.5°	31.8	26.5	37.1	47.7	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°
153.8	0°	153.8	153.8	153.8	153.8	153.8	153.8	153.8	153.8	153.8	153.8
108.7	2.5°	108.7	108.7	106.1	108.7	108.7	114.0	127.3	145.9	167.1	175.0
92.8	5°	90.2	87.5	84.9	84.9	84.9	92.8	103.4	124.6	148.5	159.1
76.9	7.5°	74.3	71.6	69.0	66.3	66.3	71.6	84.9	108.7	132.6	143.2
63.6	10°	61.0	55.7	53.0	50.4	50.4	55.7	69.0	92.8	119.3	130.0
53.0	12.5°	50.4	42.4	37.1	34.5	31.8	39.8	53.0	74.3	103.4	116.7
39.8	15°	34.5	26.5	18.6	15.9	13.3	21.2	34.5	58.3	87.5	103.4
21.2	17.5°	18.6	8.0	2.7	0.0	0.0	5.3	15.9	42.4	71.6	84.9
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.2	53.0	66.3
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	31.8	45.1
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.3	23.9
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3
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	8.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6	21.2
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°
153.8	0°	153.8	153.8	153.8	153.8	153.8	153.8	153.8	153.8	153.8	153.8
183.0	2.5°	188.3	185.6	180.3	175.0	175.0	175.0	183.0	190.9	198.9	198.9
164.4	5°	175.0	175.0	172.4	167.1	167.1	169.7	180.3	193.6	204.2	206.9
151.2	7.5°	161.8	167.1	161.8	159.1	161.8	164.4	175.0	190.9	206.9	212.2
140.6	10°	153.8	156.5	156.5	153.8	153.8	159.1	169.7	190.9	212.2	220.1
127.3	12.5°	143.2	148.5	145.9	145.9	145.9	151.2	164.4	188.3	217.5	228.1
114.0	15°	132.6	140.6	140.6	137.9	137.9	140.6	159.1	185.6	225.4	244.0
98.1	17.5°	122.0	130.0	132.6	127.3	127.3	132.6	151.2	185.6	230.7	262.6
79.6	20°	100.8	114.0	122.0	114.0	114.0	119.3	137.9	175.0	233.4	281.1
58.3	22.5°	79.6	92.8	103.4	100.8	100.8	103.4	127.3	167.1	236.0	312.9
34.5	25°	58.3	71.6	79.6	84.9	84.9	92.8	116.7	161.8	246.6	379.2
15.9	27.5°	34.5	50.4	61.0	66.3	69.0	79.6	108.7	156.5	265.2	474.7
0.0	30°	15.9	29.2	42.4	53.0	53.0	71.6	100.8	151.2	289.1	612.6
0.0	32.5°	0.0	13.3	21.2	37.1	39.8	58.3	92.8	145.9	323.6	745.2
0.0	35°	0.0	0.0	10.6	29.2	29.2	47.7	84.9	140.6	376.6	846.0
0.0	37.5°	0.0	0.0	0.0	21.2	23.9	42.4	82.2	137.9	387.2	854.0
0.0	40°	0.0	0.0	0.0	15.9	18.6	39.8	82.2	140.6	350.1	835.4
0.0	42.5°	0.0	0.0	0.0	10.6	13.3	39.8	82.2	145.9	315.6	856.6
0.0	45°	0.0	0.0	0.0	8.0	10.6	42.4	79.6	143.2	297.0	968.0
0.0	47.5°	0.0	0.0	0.0	10.6	15.9	42.4	76.9	140.6	299.7	1336.6
0.0	50°	0.0	0.0	0.0	13.3	18.6	42.4	79.6	135.3	328.9	2055.3
0.0	52.5°	0.0	0.0	0.0	10.6	15.9	47.7	87.5	132.6	358.0	2673.3
0.0	55°	0.0	0.0	0.0	2.7	8.0	61.0	95.5	132.6	403.1	2827.1
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	69.0	108.7	140.6	477.4	2766.1
0.0	58°	0.0	0.0	0.0	0.0	0.0	69.0	111.4	140.6	482.7	2713.1
0.0	60°	0.0	0.0	0.0	0.0	0.0	69.0	122.0	156.5	519.8	2416.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	58.3	145.9	196.3	541.0	1898.9
0.0	65°	0.0	0.0	0.0	0.0	0.0	47.7	172.4	214.8	556.9	1511.7
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	45.1	177.7	217.5	564.9	1204.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	47.7	175.0	233.4	591.4	978.6
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	53.0	159.1	257.2	591.4	867.2
0.0	75°	0.0	0.0	0.0	0.0	0.0	55.7	148.5	289.1	538.4	750.5
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	53.0	145.9	336.8	480.0	617.9
0.0	80°	5.3	8.0	8.0	5.3	5.3	45.1	143.2	342.1	408.4	424.3
2.7	82.5°	15.9	21.2	18.6	13.3	13.3	39.8	127.3	286.4	212.2	183.0
15.9	85°	29.2	34.5	34.5	29.2	29.2	37.1	79.6	103.4	71.6	58.3
29.2	87.5°	39.8	45.1	45.1	39.8	39.8	37.1	34.5	31.8	29.2	29.2
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: SP1-2407-184-4

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-730-U-5WQ

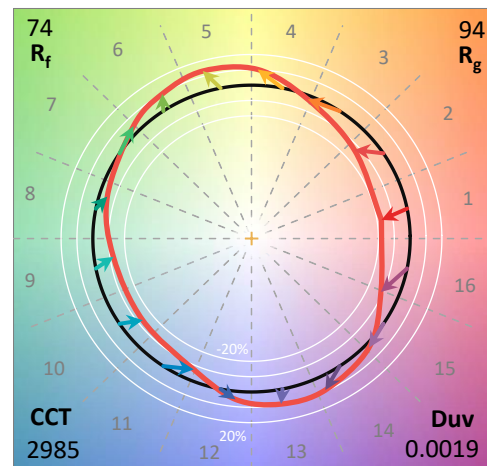
Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-4
 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-730-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K):	2985	CRI (Ra):	70.8		
CIE u':	0.2504	R1:	66.3	R9:	-43.2
CIE v':	0.5243	R2:	80.6	R10:	57.6
Duv:	0.0019	R3:	94.5	R11:	64.8
CIE x:	0.4408	R4:	68.2	R12:	53.5
CIE y:	0.4101	R5:	66.5	R13:	68.7
CIE z:	0.1491	R6:	74.7	R14:	97.0
Peak Wavelength (nm):	595	R7:	76.2	R15:	56.4
Dominant Wavelength (nm):	582	R8:	39.6		
Purity:	55.41818				
Rf:	73.8				
Rg:	94.4				



Test Conditions

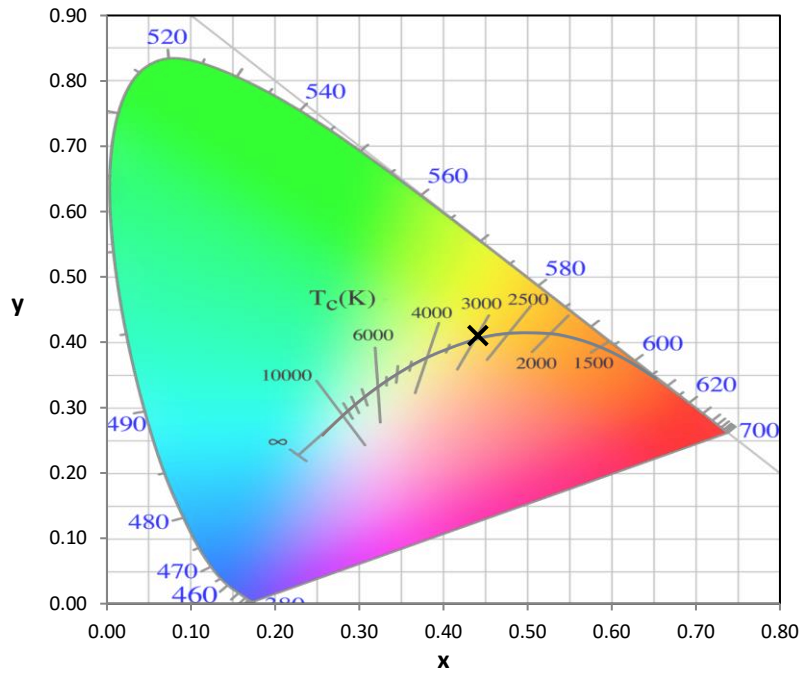
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

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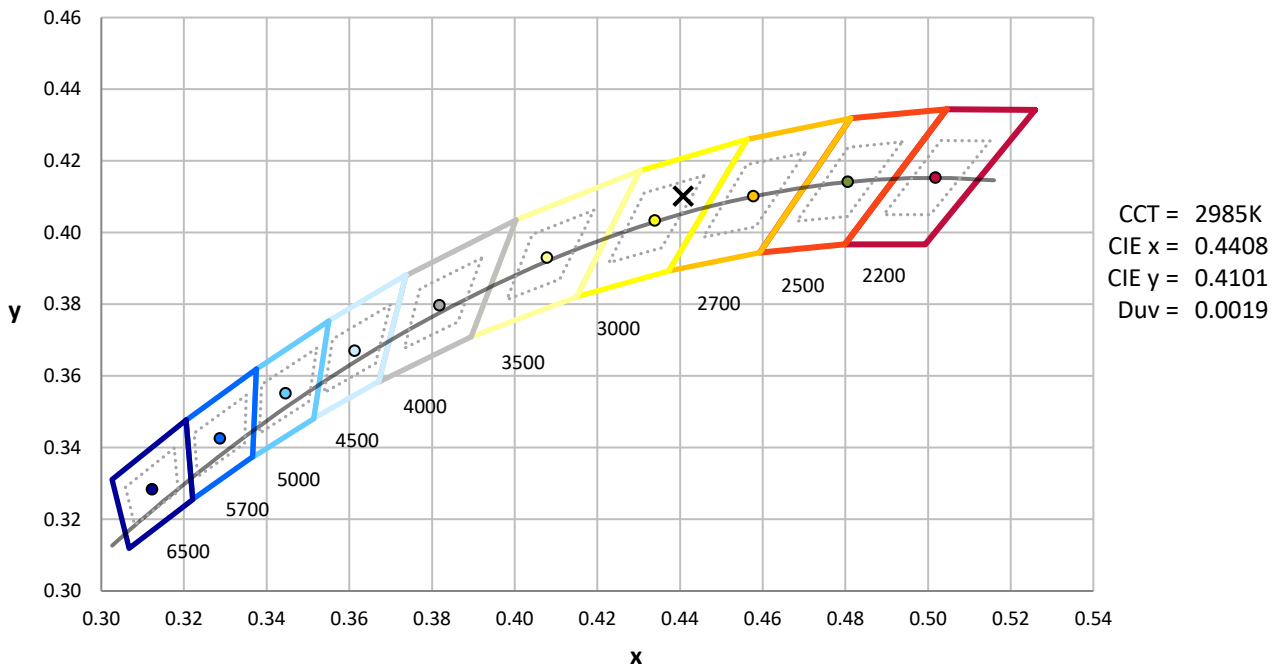
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



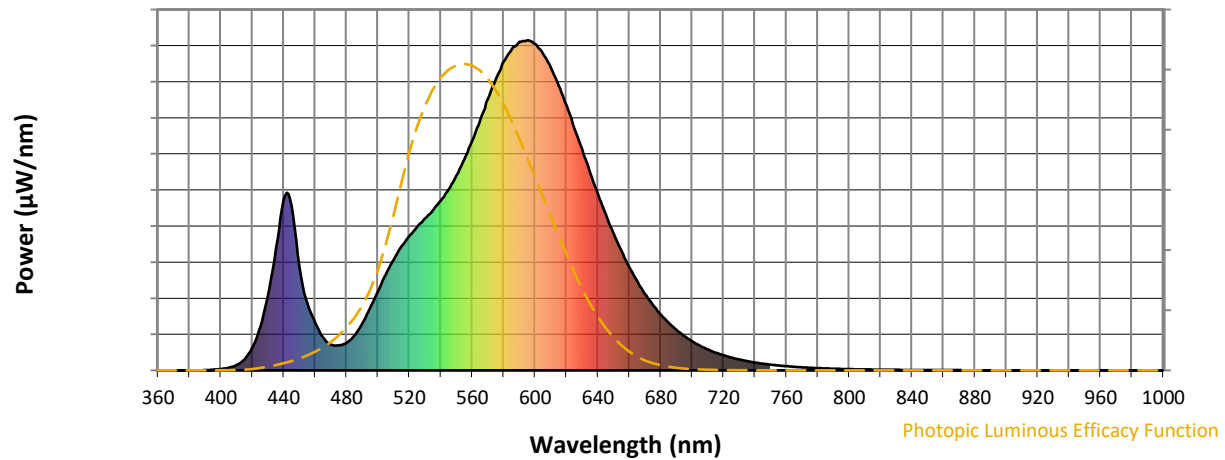
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

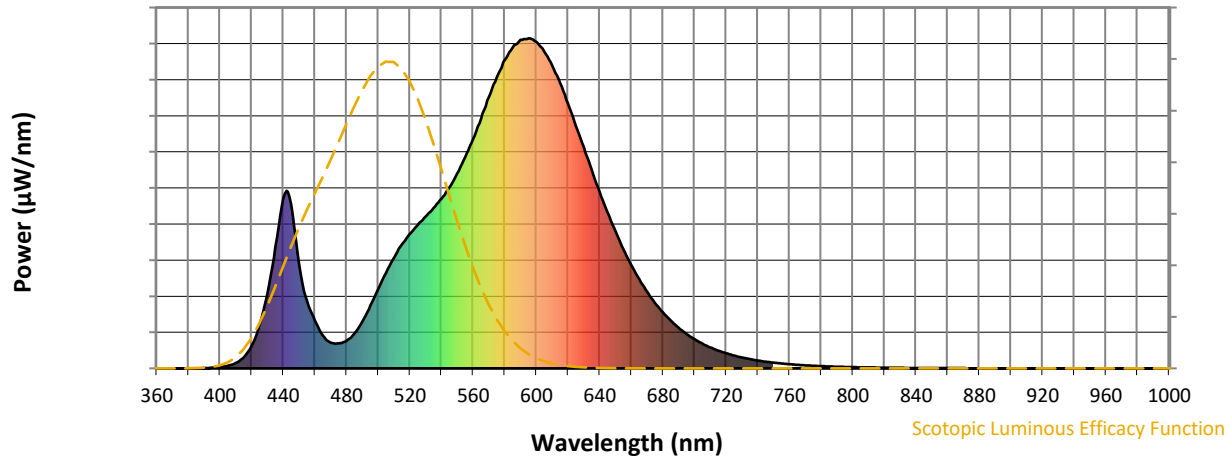


Photopic Lumens: NR

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

Scotopic Flux vs. Wavelength



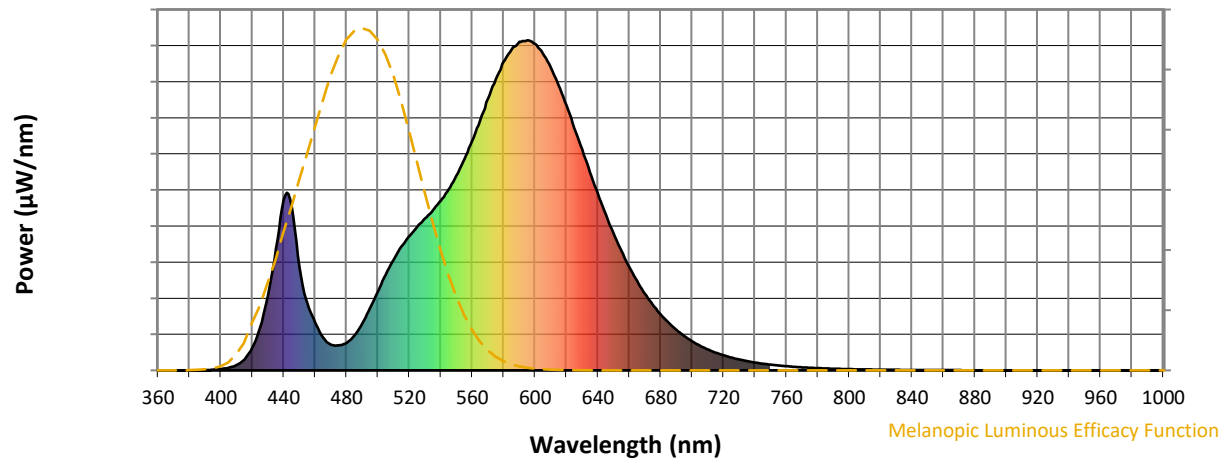
Scotopic Lumens: NR

S/P: 1.19

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.13

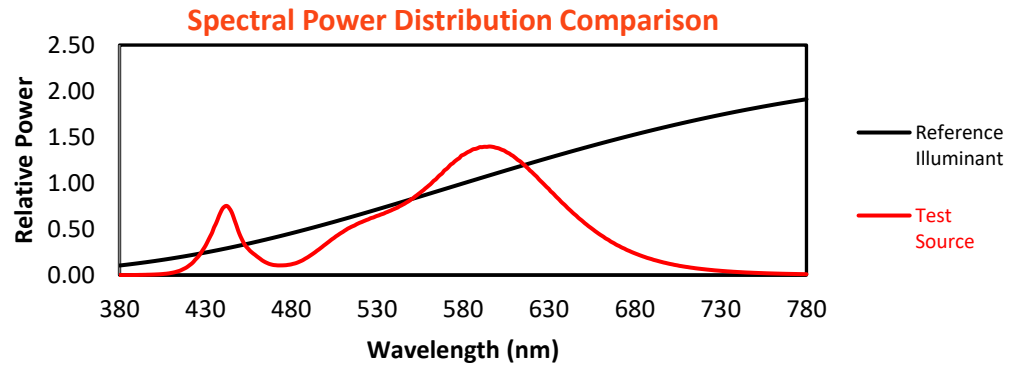
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

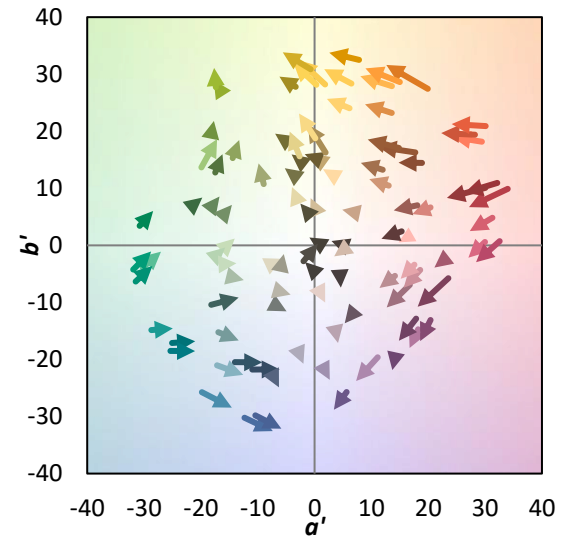
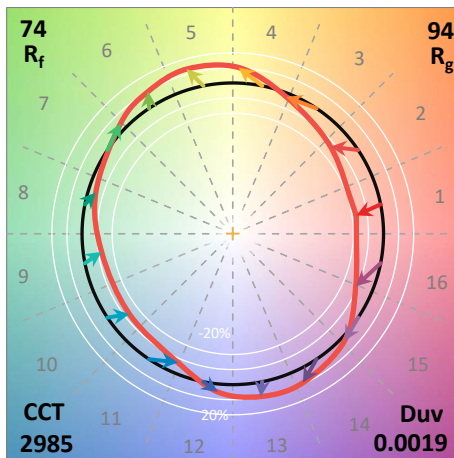
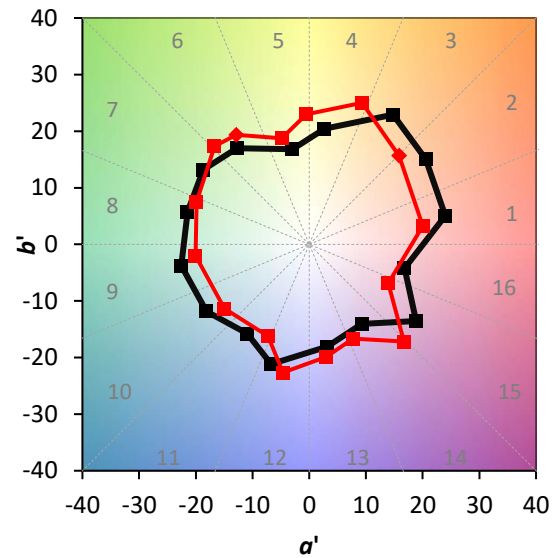
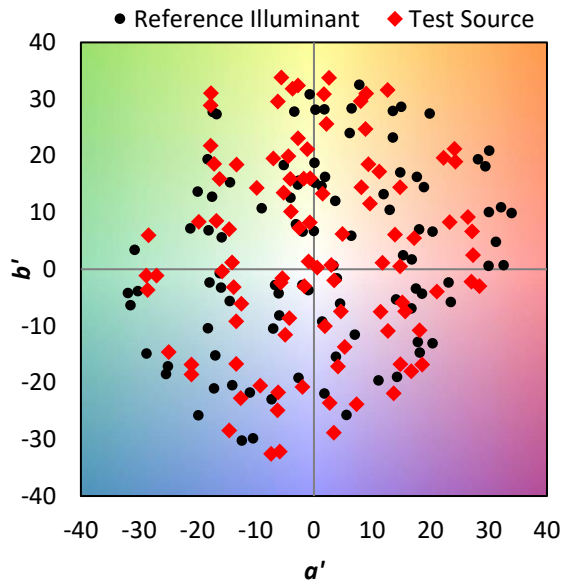
TM-30-18

Summary

$R_f = 73.8$
 $R_g = 94.4$
 $CIE R_a = 70.8$
 $R_g = -43.2$

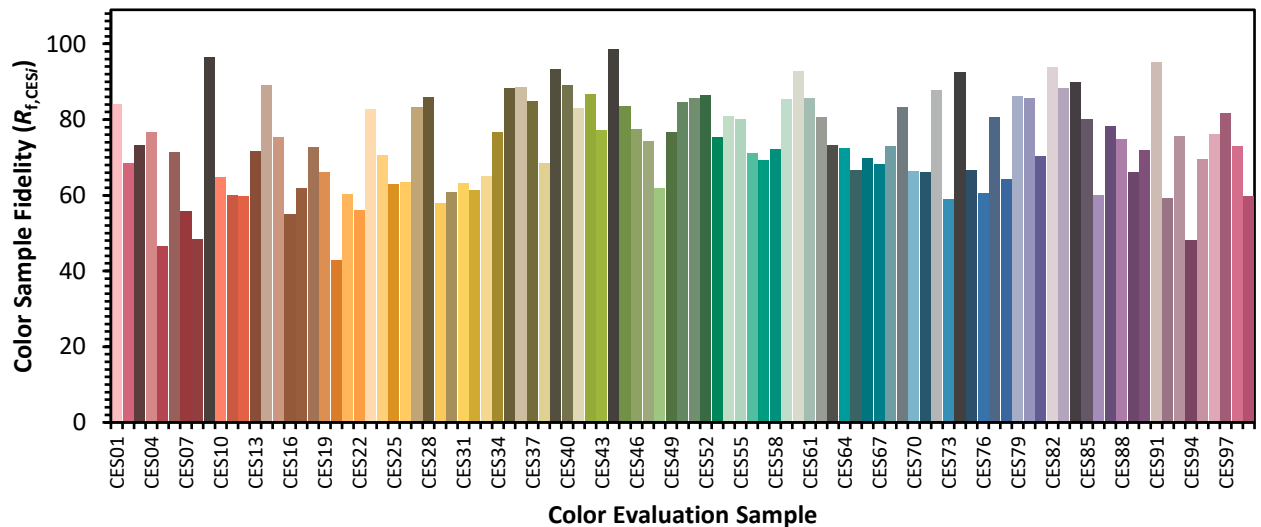


Color Vector Graphics

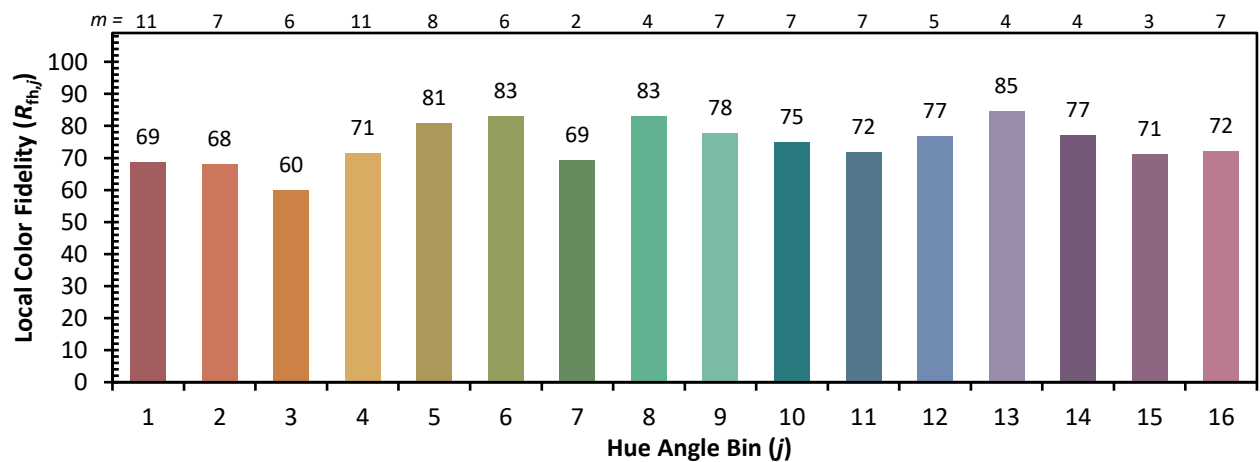
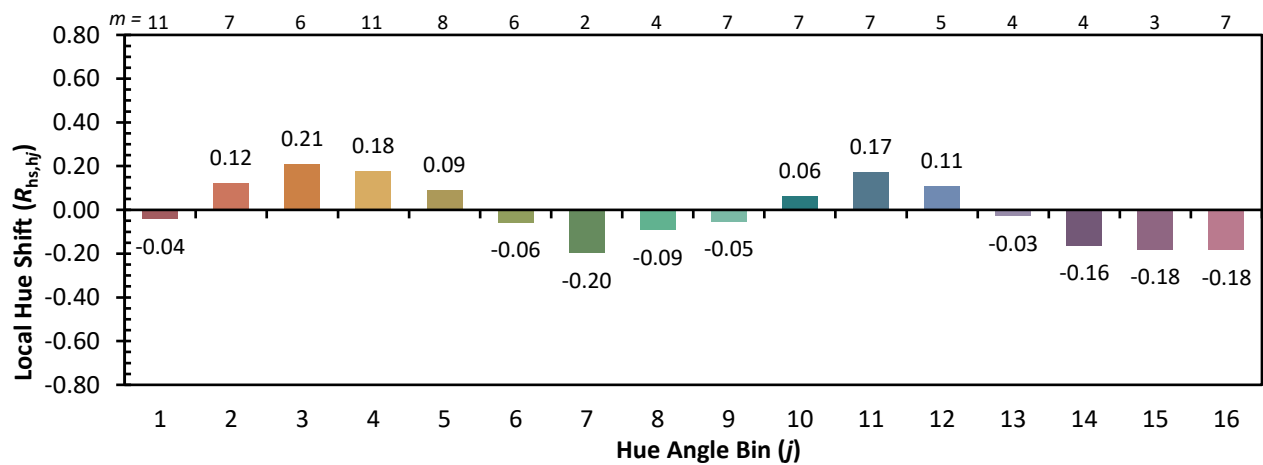
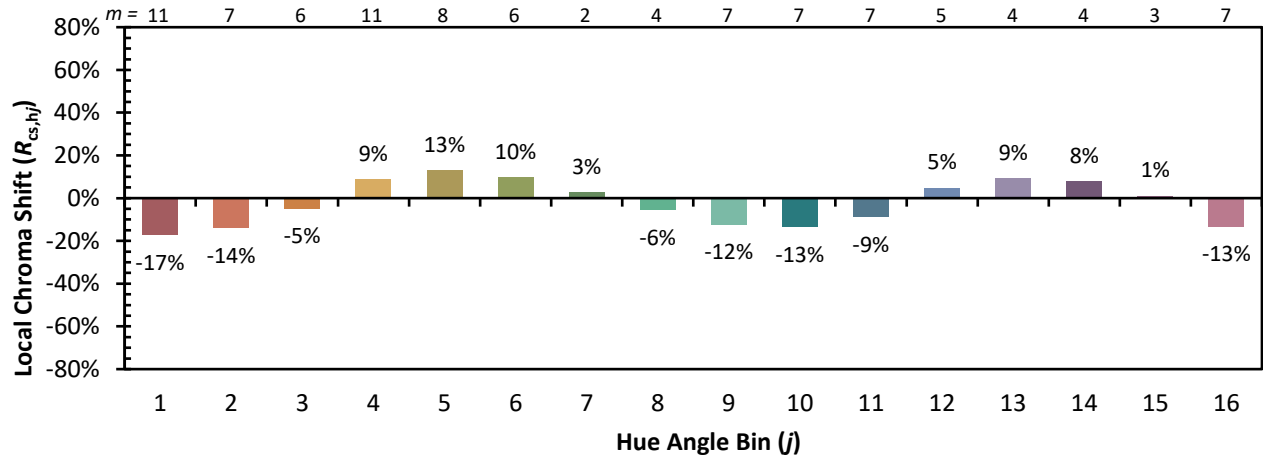


Individual Sample Fidelity Index ($R_{f,i}$)

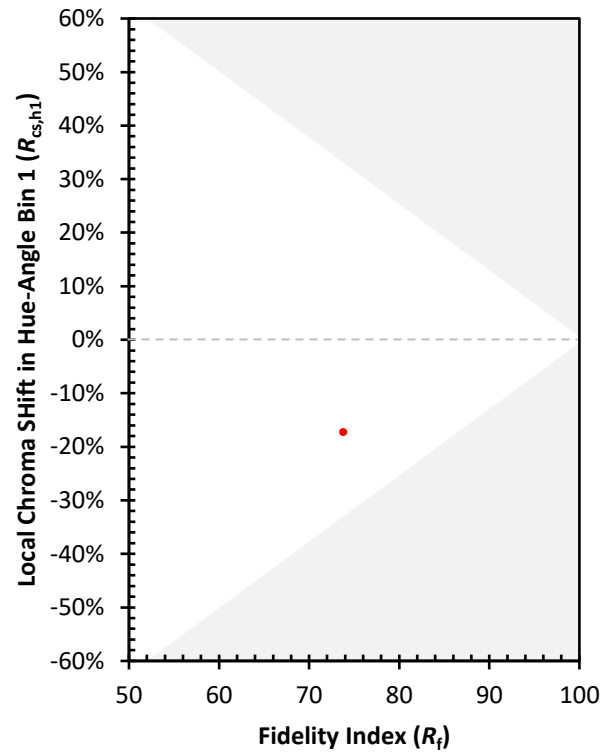
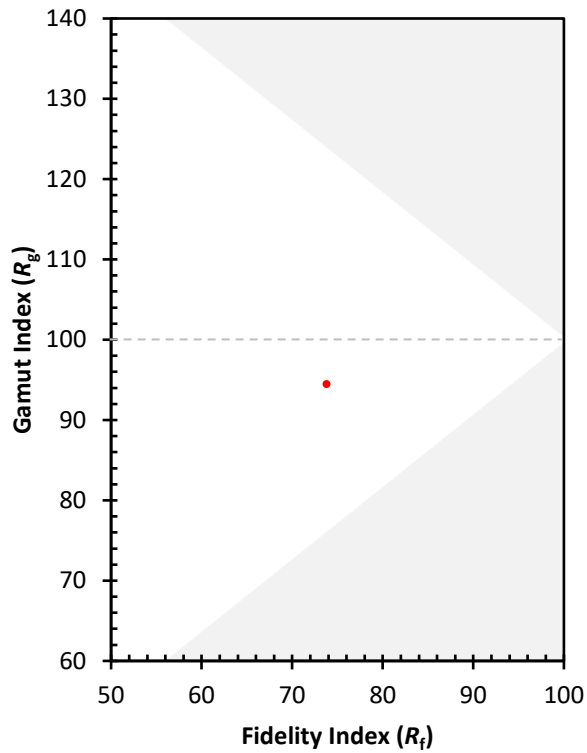
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 94
CES08 = 40	CES33 = 65	CES58 = 72	CES83 = 88
CES09 = 29	CES34 = 77	CES59 = 85	CES84 = 90
CES10 = 76	CES35 = 88	CES60 = 93	CES85 = 80
CES11 = 59	CES36 = 89	CES61 = 86	CES86 = 60
CES12 = 65	CES37 = 85	CES62 = 81	CES87 = 78
CES13 = 43	CES38 = 69	CES63 = 73	CES88 = 75
CES14 = 74	CES39 = 93	CES64 = 72	CES89 = 66
CES15 = 71	CES40 = 89	CES65 = 67	CES90 = 72
CES16 = 47	CES41 = 83	CES66 = 70	CES91 = 95
CES17 = 50	CES42 = 87	CES67 = 68	CES92 = 59
CES18 = 56	CES43 = 77	CES68 = 73	CES93 = 76
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 66	CES45 = 83	CES70 = 66	CES95 = 70
CES21 = 87	CES46 = 77	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 74	CES72 = 88	CES97 = 82
CES23 = 92	CES48 = 62	CES73 = 59	CES98 = 73
CES24 = 91	CES49 = 77	CES74 = 93	CES99 = 60
CES25 = 73	CES50 = 85	CES75 = 67	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)