

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: P1049589

Luminaire Tested: **GALN-SA6A-730-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049589
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-730-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 6xLight Square PACKAGE
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18883 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

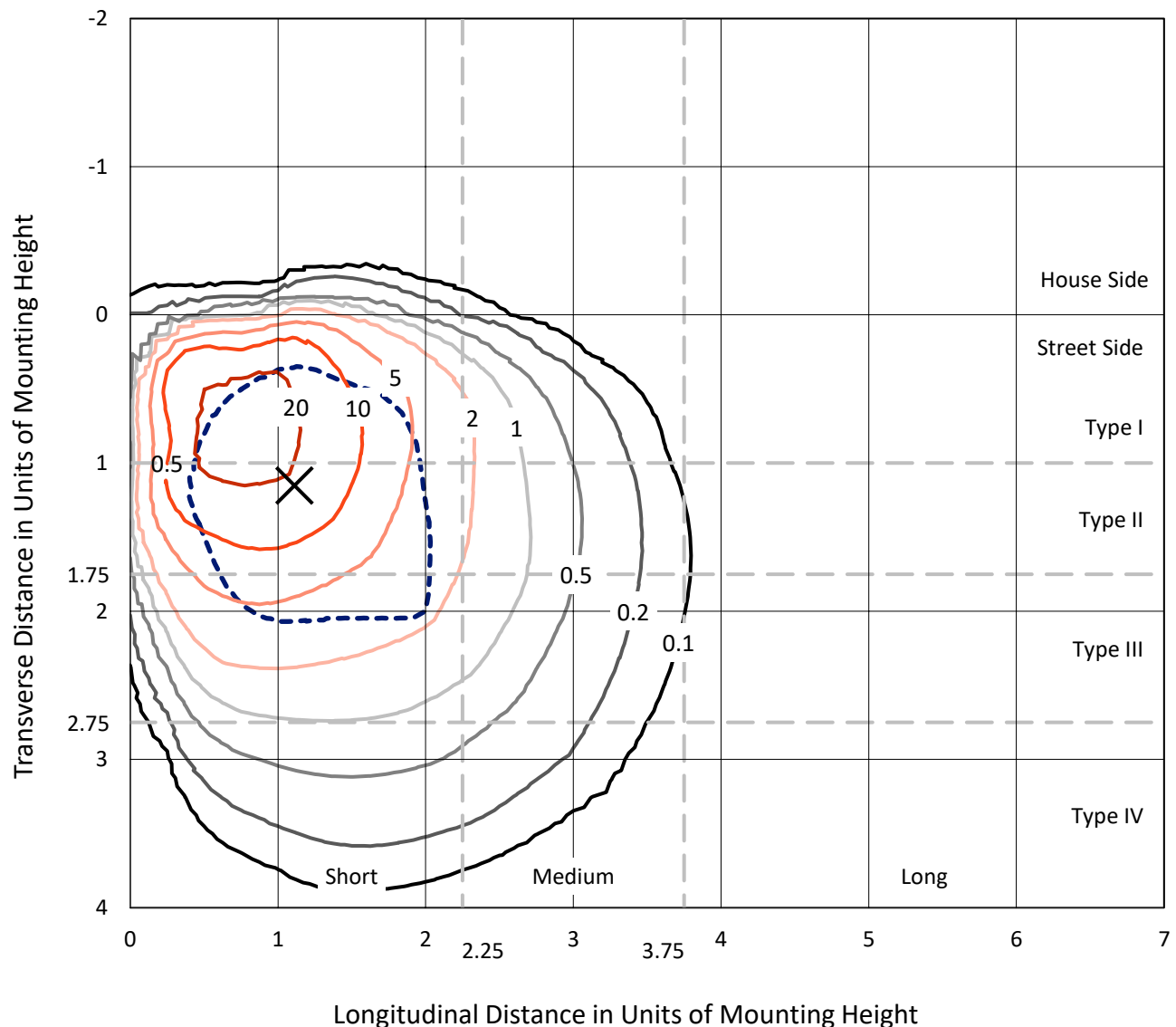
Input Watts (W): 162.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

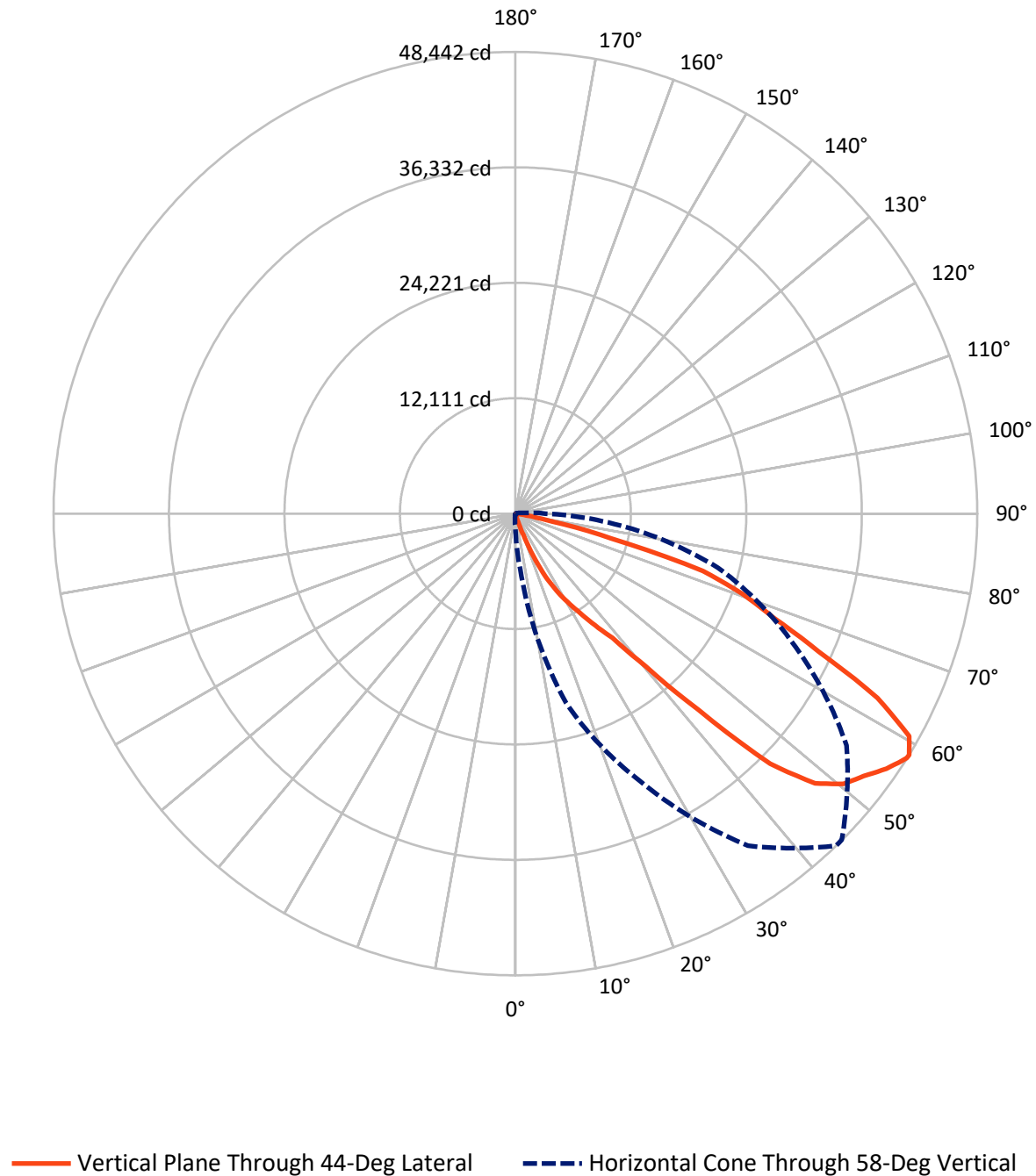
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 32.9 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	128.9	0.0	128.9
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	18754.0	0.0	18754.0
	% Fixture	99.3	0.0	99.3
Total	Lumens	18883.0	0.0	18883.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.4	0.0
10°-20°	41.4	0.2
20°-30°	447.3	2.4
30°-40°	1322.9	7.0
40°-50°	3943.1	20.9
50°-60°	6256.7	33.1
60°-70°	5218.8	27.6
70°-80°	1609.6	8.5
80°-90°	35.8	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°	18883.0	100.0
0°-180°	18883.0	100.0

Coefficient of Utilization



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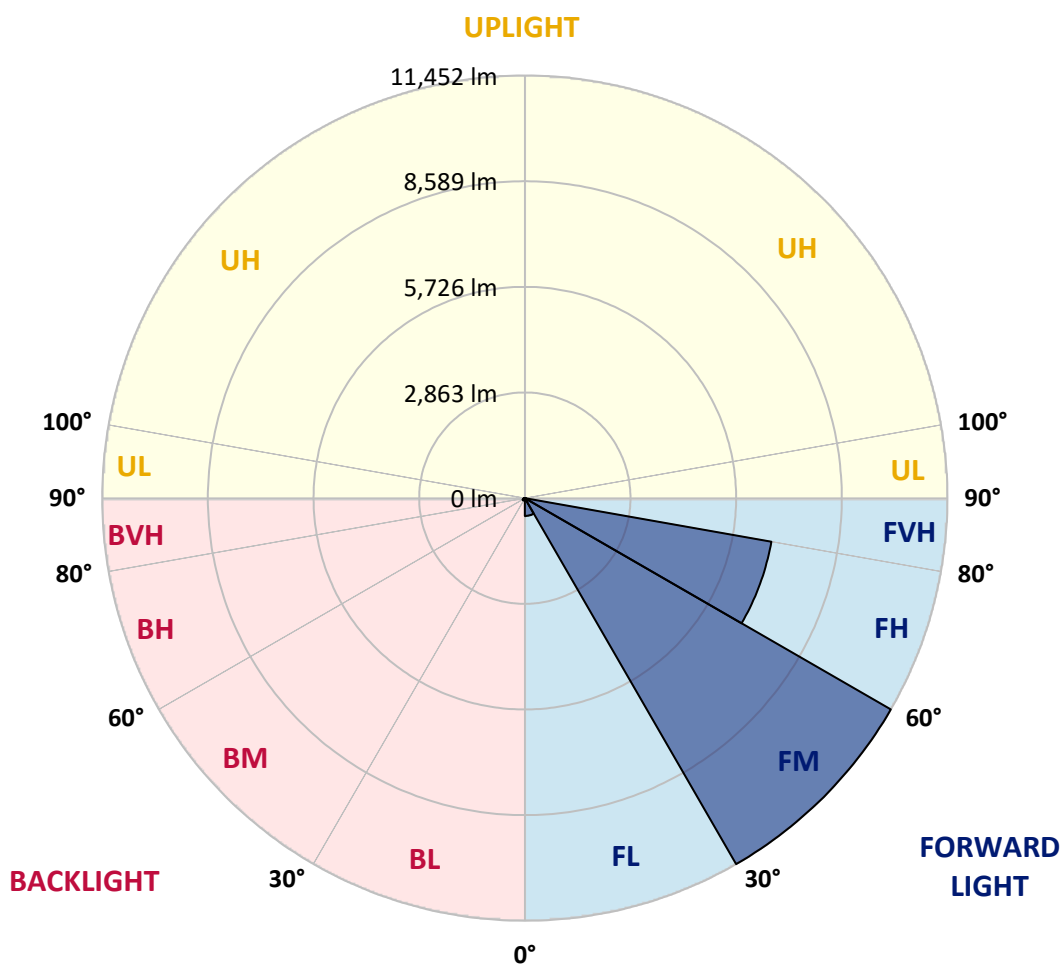
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	483.5	2.6			
FM	(30°-60°)	11452.1	60.6			
FH	(60°-80°)	6784.4	35.9			G3/7500
FVH	(80°-90°)	34.0	0.2			G1/100
BL	(0°-30°)	12.6	0.1	B0/110		
BM	(30°-60°)	70.6	0.4	B0/220		
BH	(60°-80°)	44.0	0.2	B0/110		G0/110
BVH	(80°-90°)	1.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
2.5°	107.0	107.0	102.7	97.0	91.3	85.6	84.2	81.3	79.9	78.5
5°	111.3	111.3	109.8	105.6	99.9	95.6	95.6	91.3	88.4	85.6
7.5°	114.1	115.5	118.4	117.0	114.1	109.8	109.8	107.0	102.7	95.6
10°	118.4	122.7	128.4	131.2	132.7	132.7	131.2	129.8	122.7	112.7
12.5°	122.7	131.2	145.5	159.8	168.3	179.7	178.3	175.5	156.9	135.5
15°	131.2	144.1	174.0	215.4	279.6	319.5	335.2	321.0	259.6	182.6
17.5°	141.2	162.6	252.5	450.8	738.9	875.8	958.6	891.5	590.5	346.6
20°	151.2	198.3	469.3	1168.3	1917.1	2365.1	2489.2	2295.2	1473.5	660.4
22.5°	168.3	278.2	951.4	2415.0	4131.0	4802.8	4929.8	4309.3	2783.0	1303.8
25°	204.0	403.7	1640.4	3935.6	6165.1	7299.1	7246.4	6433.3	4514.7	2082.6
27.5°	255.3	587.7	2480.6	5591.7	8113.6	9113.6	9233.4	8227.8	6018.2	3062.6
30°	329.5	814.5	3382.1	6918.3	9675.6	10756.8	10776.8	9736.9	7363.3	3922.7
32.5°	400.8	1028.5	4170.9	8200.6	11214.7	12400.1	12488.6	11209.0	8367.5	4818.5
35°	455.0	1168.3	4969.7	9327.5	12766.7	14400.0	14394.3	12875.1	9557.2	5618.8
37.5°	459.3	1308.1	5693.0	10480.1	14732.4	16561.1	16742.2	15067.6	10995.1	6608.7
40°	449.3	1465.0	6608.7	12277.4	18274.2	21080.0	21239.8	19128.7	13879.3	8303.4
42.5°	460.7	1737.4	8095.1	15596.8	24155.5	28185.2	28493.3	26273.7	19181.4	11761.1
45°	520.7	2249.5	11209.0	21149.9	32538.7	37451.4	37348.7	34152.0	25350.8	17024.7
47.5°	718.9	3503.4	15825.0	26554.8	37896.4	42271.4	42359.8	38452.8	28951.2	21071.5
50°	1105.5	5360.6	19703.5	29411.9	40200.2	44589.3	44506.6	39991.9	30319.1	23064.2
52.5°	1437.9	6704.3	21649.2	30414.7	40495.4	45734.8	45729.1	40397.0	30531.7	23235.4
55°	1520.6	6805.6	21664.9	30468.9	41157.3	47234.0	47422.3	41394.1	30807.0	22488.0
57.5°	1487.8	6025.3	20760.5	30782.7	42335.5	48393.7	48403.7	42359.8	31506.0	22030.1
58°	1459.3	5902.6	20577.9	30961.1	42538.1	48442.2	48417.9	42404.0	32075.1	22012.9
60°	1299.5	5125.2	19866.1	31416.1	42237.1	47446.5	47219.7	41438.3	31990.9	21837.5
62.5°	1021.3	3998.3	19165.8	30889.7	39010.5	42626.5	42720.7	36686.8	29163.7	20814.7
65°	813.1	2979.8	17705.1	27095.4	32123.6	35005.0	35355.9	29832.7	24342.3	17625.2
67.5°	647.6	2153.9	14852.2	21572.2	25419.3	29215.1	29470.4	25047.0	18859.1	13504.2
70°	526.4	1456.4	10251.9	15776.5	20965.9	25233.9	25249.6	20807.6	14076.2	8848.3
72.5°	466.4	1008.5	5951.1	11505.7	17000.4	20562.2	20147.1	16884.9	10818.2	5240.8
75°	403.7	669.0	2918.5	7033.8	10307.5	10377.4	10535.7	7832.6	5407.7	2492.0
77.5°	332.4	475.0	1149.7	1921.4	3091.1	3957.0	4103.9	3109.7	1798.8	613.4
80°	228.2	225.4	309.5	589.1	884.4	1108.3	1034.2	800.2	470.7	235.4
82.5°	98.4	107.0	139.8	168.3	136.9	132.7	127.0	81.3	62.8	48.5
85°	31.4	28.5	30.0	30.0	24.2	18.5	18.5	8.6	0.0	0.0
87.5°	15.7	12.8	12.8	11.4	7.1	2.9	1.4	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
82.7	0°	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
77.0	2.5°	75.6	75.6	72.7	69.9	68.5	65.6	64.2	62.8	61.3	59.9
82.7	5°	79.9	78.5	74.2	69.9	65.6	61.3	58.5	55.6	52.8	51.4
91.3	7.5°	87.0	84.2	75.6	68.5	62.8	57.1	54.2	49.9	47.1	42.8
101.3	10°	95.6	89.9	78.5	69.9	61.3	54.2	49.9	45.6	41.4	35.7
115.5	12.5°	107.0	97.0	82.7	68.5	58.5	49.9	45.6	39.9	35.7	31.4
134.1	15°	117.0	104.1	84.2	68.5	55.6	45.6	39.9	34.2	30.0	24.2
168.3	17.5°	131.2	109.8	82.7	64.2	51.4	39.9	34.2	30.0	22.8	14.3
249.6	20°	155.5	114.1	79.9	59.9	44.2	32.8	25.7	20.0	10.0	2.9
375.2	22.5°	194.0	125.5	77.0	54.2	38.5	25.7	17.1	7.1	0.0	0.0
570.6	25°	268.2	145.5	77.0	51.4	34.2	18.5	5.7	0.0	0.0	0.0
810.2	27.5°	356.6	172.6	77.0	44.2	27.1	10.0	0.0	0.0	0.0	0.0
1104.1	30°	446.5	202.6	77.0	38.5	21.4	1.4	0.0	0.0	0.0	0.0
1359.4	32.5°	532.1	228.2	78.5	32.8	14.3	0.0	0.0	0.0	0.0	0.0
1713.2	35°	619.1	232.5	77.0	28.5	8.6	0.0	0.0	0.0	0.0	0.0
2146.8	37.5°	730.3	224.0	72.7	25.7	4.3	0.0	0.0	0.0	0.0	0.0
2824.4	40°	898.7	228.2	68.5	24.2	1.4	0.0	0.0	0.0	0.0	0.0
4032.6	42.5°	1209.6	246.8	62.8	24.2	0.0	0.0	0.0	0.0	0.0	0.0
6423.3	45°	2091.2	330.9	57.1	25.7	0.0	0.0	0.0	0.0	0.0	0.0
9642.8	47.5°	3459.1	594.8	55.6	25.7	0.0	0.0	0.0	0.0	0.0	0.0
11615.6	50°	4414.9	748.9	58.5	27.1	0.0	0.0	0.0	0.0	0.0	0.0
11862.3	52.5°	4407.7	834.5	61.3	28.5	5.7	0.0	0.0	0.0	0.0	0.0
10933.7	55°	3918.5	850.2	65.6	31.4	18.5	0.0	0.0	0.0	0.0	0.0
9396.0	57.5°	3275.1	776.0	75.6	38.5	34.2	0.0	0.0	0.0	0.0	0.0
9154.9	58°	3161.0	741.8	78.5	39.9	37.1	0.0	0.0	0.0	0.0	0.0
7941.0	60°	2590.4	604.8	99.9	49.9	49.9	0.0	0.0	0.0	0.0	0.0
6510.3	62.5°	1788.8	527.8	114.1	64.2	51.4	0.0	0.0	0.0	0.0	0.0
4800.0	65°	1265.3	476.4	124.1	68.5	41.4	0.0	0.0	0.0	0.0	0.0
3410.6	67.5°	945.7	439.3	136.9	69.9	21.4	0.0	0.0	0.0	0.0	0.0
2139.7	70°	724.6	412.2	168.3	74.2	5.7	0.0	0.0	0.0	0.0	0.0
1275.2	72.5°	590.5	380.9	204.0	77.0	0.0	0.0	0.0	0.0	0.0	0.0
764.6	75°	489.3	343.8	196.8	84.2	0.0	0.0	0.0	0.0	0.0	0.0
408.0	77.5°	325.2	266.7	179.7	84.2	0.0	0.0	0.0	0.0	0.0	0.0
145.5	80°	114.1	105.6	139.8	74.2	0.0	0.0	0.0	0.0	0.0	0.0
30.0	82.5°	17.1	14.3	20.0	25.7	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°
82.7	0°	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
58.5	2.5°	58.5	58.5	57.1	58.5	58.5	61.3	68.5	78.5	89.9	94.1
49.9	5°	48.5	47.1	45.6	45.6	45.6	49.9	55.6	67.0	79.9	85.6
41.4	7.5°	39.9	38.5	37.1	35.7	35.7	38.5	45.6	58.5	71.3	77.0
34.2	10°	32.8	30.0	28.5	27.1	27.1	30.0	37.1	49.9	64.2	69.9
28.5	12.5°	27.1	22.8	20.0	18.5	17.1	21.4	28.5	39.9	55.6	62.8
21.4	15°	18.5	14.3	10.0	8.6	7.1	11.4	18.5	31.4	47.1	55.6
11.4	17.5°	10.0	4.3	1.4	0.0	0.0	2.9	8.6	22.8	38.5	45.6
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.4	28.5	35.7
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	17.1	24.2
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	12.8
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9
0.0	30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	11.4
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°
82.7	0°	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
98.4	2.5°	101.3	99.9	97.0	94.1	94.1	94.1	98.4	102.7	107.0	107.0
88.4	5°	94.1	94.1	92.7	89.9	89.9	91.3	97.0	104.1	109.8	111.3
81.3	7.5°	87.0	89.9	87.0	85.6	87.0	88.4	94.1	102.7	111.3	114.1
75.6	10°	82.7	84.2	84.2	82.7	82.7	85.6	91.3	102.7	114.1	118.4
68.5	12.5°	77.0	79.9	78.5	78.5	78.5	81.3	88.4	101.3	117.0	122.7
61.3	15°	71.3	75.6	75.6	74.2	74.2	75.6	85.6	99.9	121.2	131.2
52.8	17.5°	65.6	69.9	71.3	68.5	68.5	71.3	81.3	99.9	124.1	141.2
42.8	20°	54.2	61.3	65.6	61.3	61.3	64.2	74.2	94.1	125.5	151.2
31.4	22.5°	42.8	49.9	55.6	54.2	54.2	55.6	68.5	89.9	127.0	168.3
18.5	25°	31.4	38.5	42.8	45.6	45.6	49.9	62.8	87.0	132.7	204.0
8.6	27.5°	18.5	27.1	32.8	35.7	37.1	42.8	58.5	84.2	142.6	255.3
0.0	30°	8.6	15.7	22.8	28.5	28.5	38.5	54.2	81.3	155.5	329.5
0.0	32.5°	0.0	7.1	11.4	20.0	21.4	31.4	49.9	78.5	174.0	400.8
0.0	35°	0.0	0.0	5.7	15.7	15.7	25.7	45.6	75.6	202.6	455.0
0.0	37.5°	0.0	0.0	0.0	11.4	12.8	22.8	44.2	74.2	208.3	459.3
0.0	40°	0.0	0.0	0.0	8.6	10.0	21.4	44.2	75.6	188.3	449.3
0.0	42.5°	0.0	0.0	0.0	5.7	7.1	21.4	44.2	78.5	169.7	460.7
0.0	45°	0.0	0.0	0.0	4.3	5.7	22.8	42.8	77.0	159.8	520.7
0.0	47.5°	0.0	0.0	0.0	5.7	8.6	22.8	41.4	75.6	161.2	718.9
0.0	50°	0.0	0.0	0.0	7.1	10.0	22.8	42.8	72.7	176.9	1105.5
0.0	52.5°	0.0	0.0	0.0	5.7	8.6	25.7	47.1	71.3	192.6	1437.9
0.0	55°	0.0	0.0	0.0	1.4	4.3	32.8	51.4	71.3	216.8	1520.6
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	37.1	58.5	75.6	256.8	1487.8
0.0	58°	0.0	0.0	0.0	0.0	0.0	37.1	59.9	75.6	259.6	1459.3
0.0	60°	0.0	0.0	0.0	0.0	0.0	37.1	65.6	84.2	279.6	1299.5
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	31.4	78.5	105.6	291.0	1021.3
0.0	65°	0.0	0.0	0.0	0.0	0.0	25.7	92.7	115.5	299.6	813.1
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	24.2	95.6	117.0	303.8	647.6
0.0	70°	0.0	0.0	0.0	0.0	0.0	25.7	94.1	125.5	318.1	526.4
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	28.5	85.6	138.4	318.1	466.4
0.0	75°	0.0	0.0	0.0	0.0	0.0	30.0	79.9	155.5	289.6	403.7
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	28.5	78.5	181.2	258.2	332.4
0.0	80°	2.9	4.3	4.3	2.9	2.9	24.2	77.0	184.0	219.7	228.2
1.4	82.5°	8.6	11.4	10.0	7.1	7.1	21.4	68.5	154.1	114.1	98.4
8.6	85°	15.7	18.5	18.5	15.7	15.7	20.0	42.8	55.6	38.5	31.4
15.7	87.5°	21.4	24.2	24.2	21.4	21.4	20.0	18.5	17.1	15.7	15.7
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

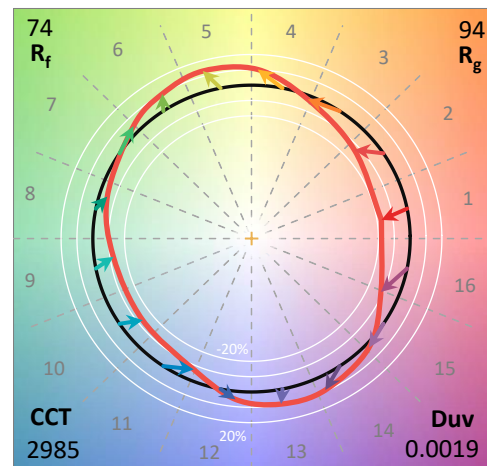
Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

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

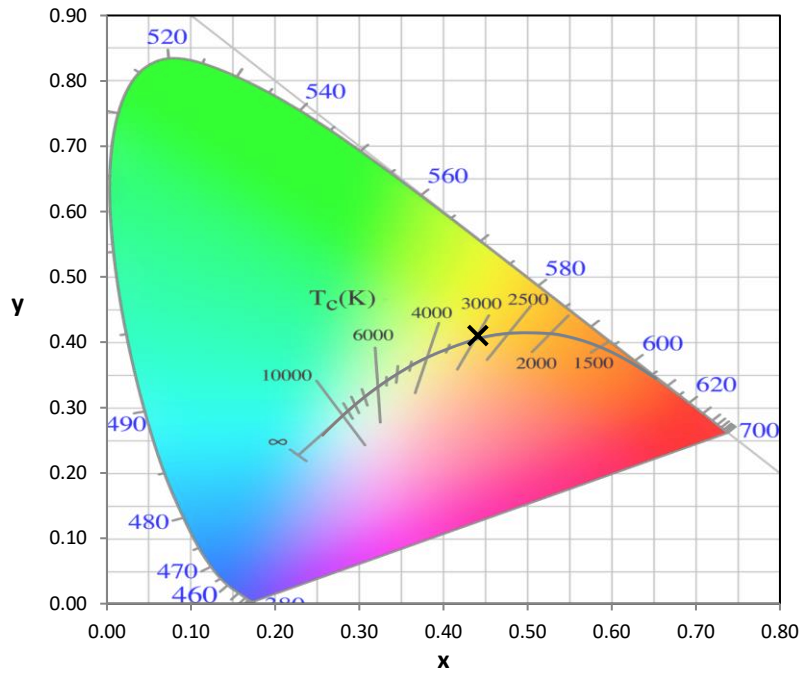
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

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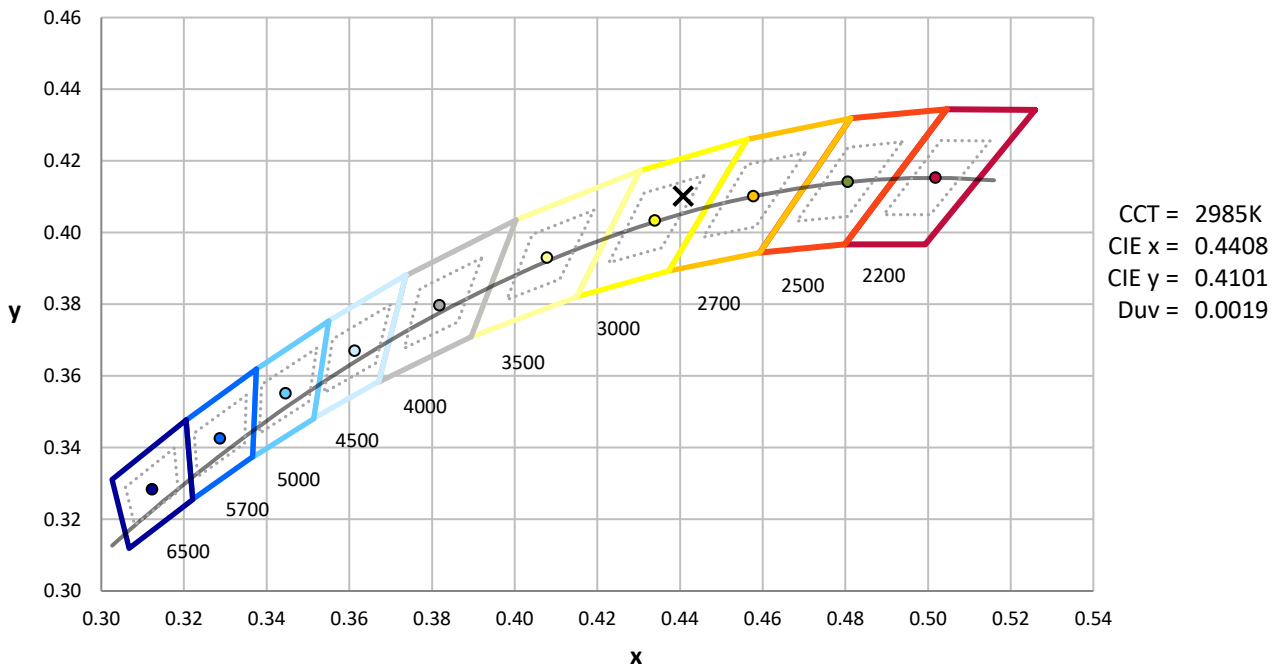
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



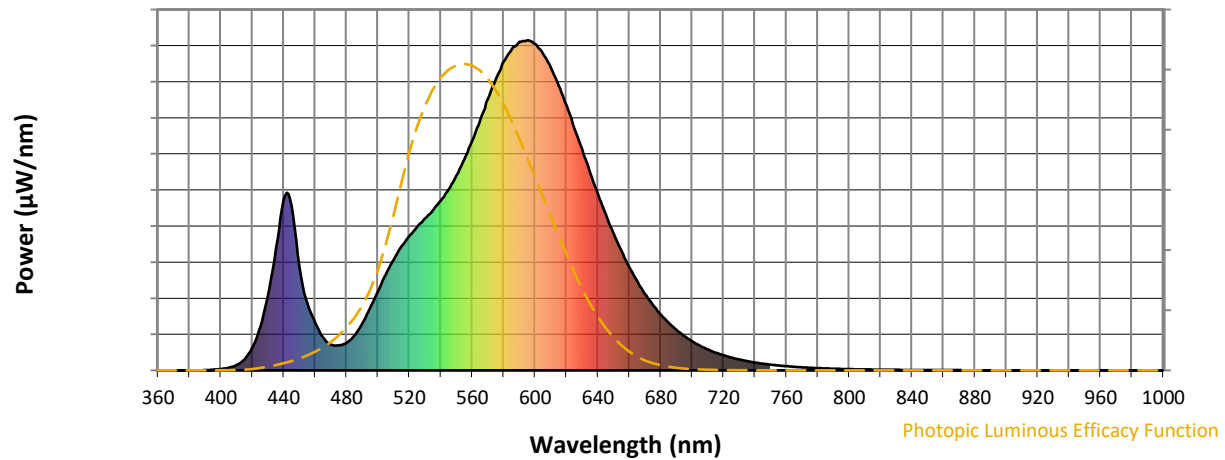
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

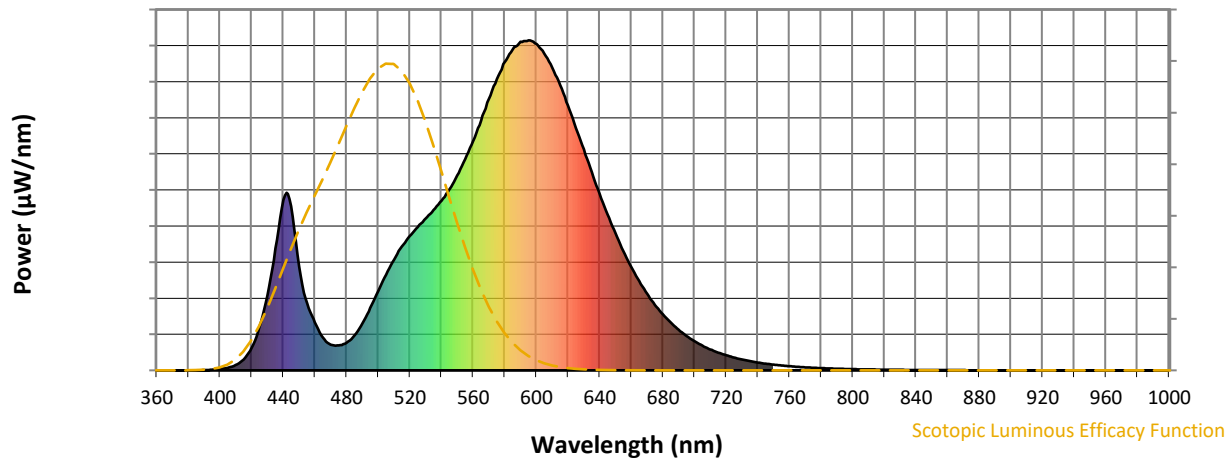


Photopic Lumens: NR

λ (nm)	Power W [^] /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	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



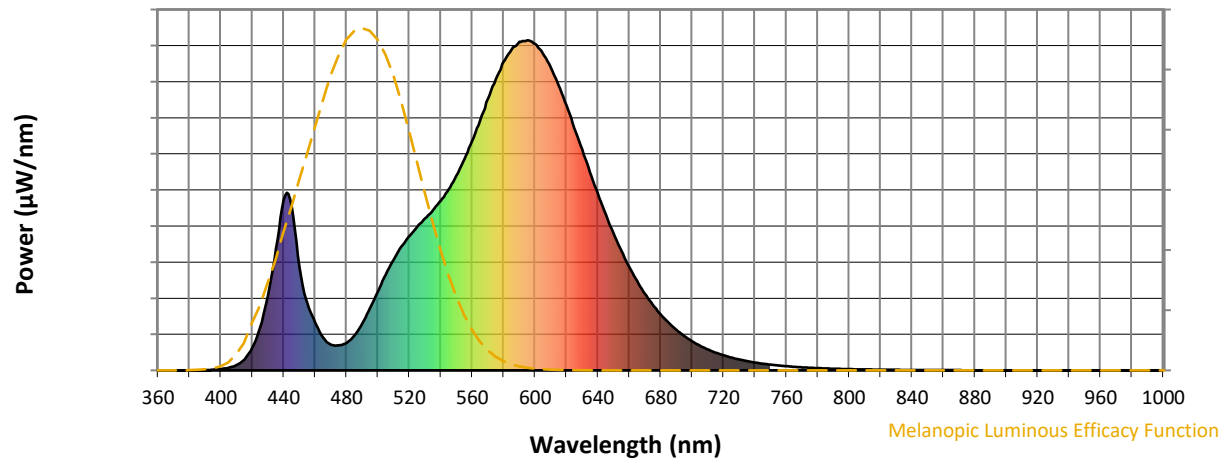
Scotopic Lumens: NR

S/P: 1.19

λ (nm)	Power 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	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

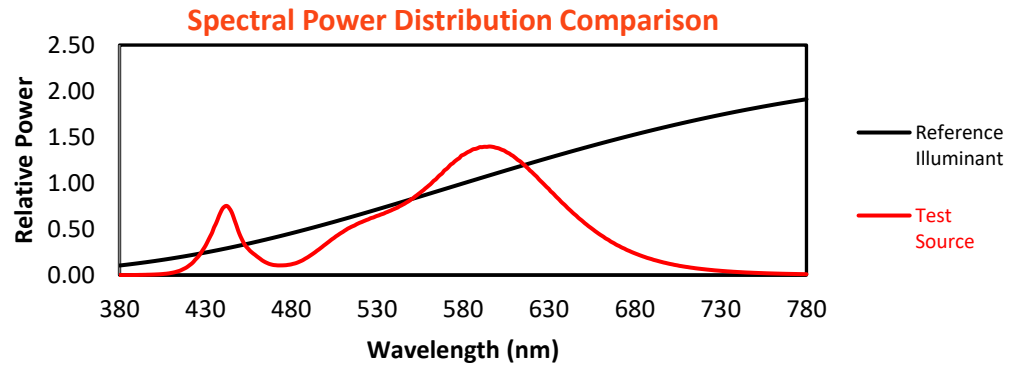
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803	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

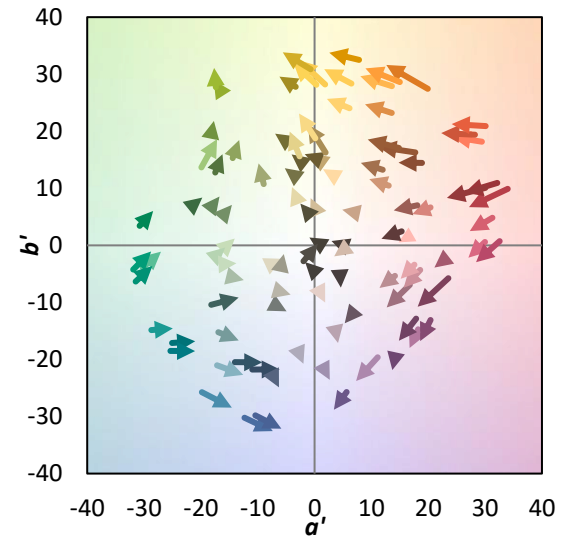
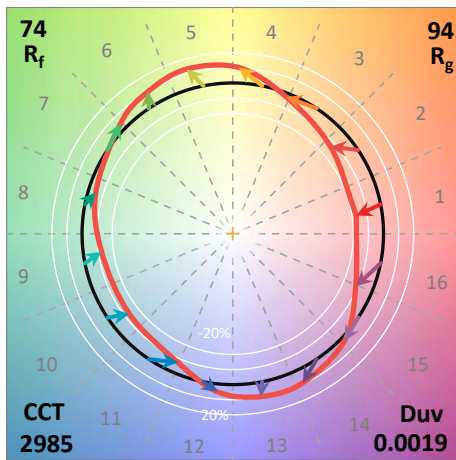
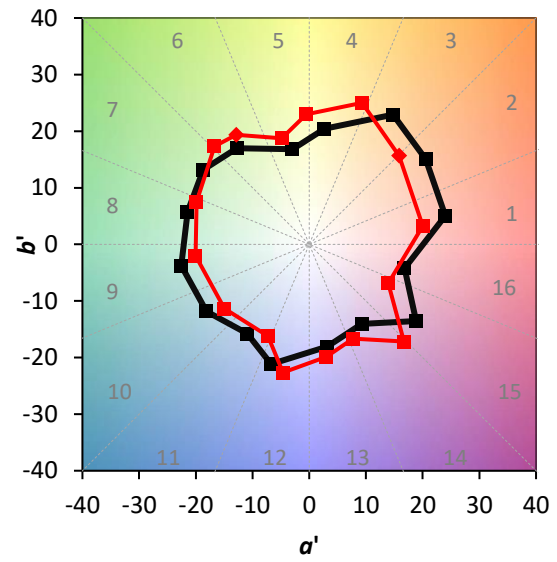
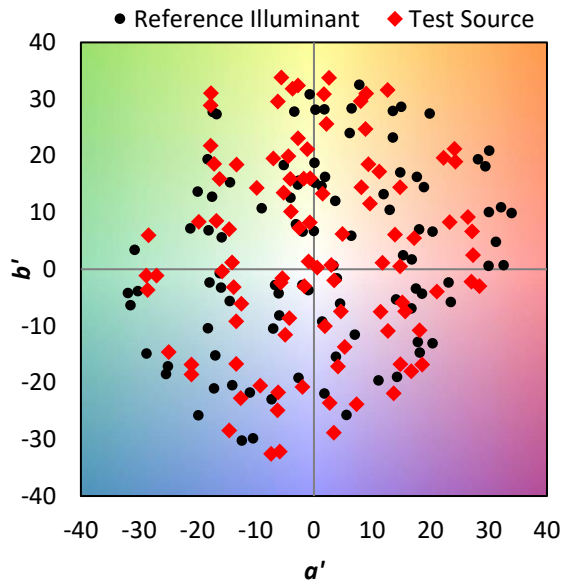
TM-30-18

Summary

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

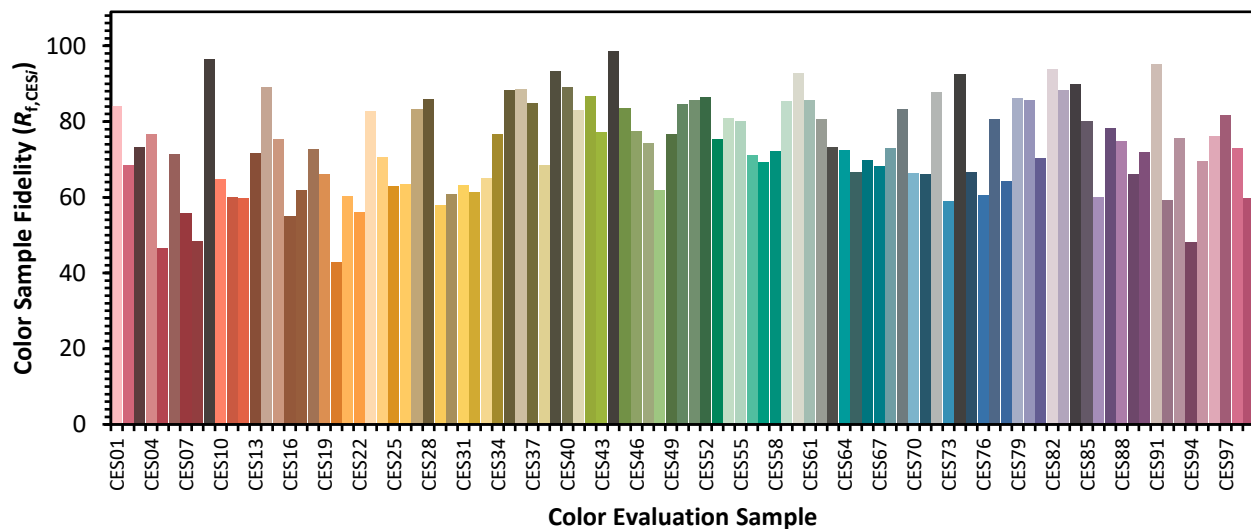


Color Vector Graphics

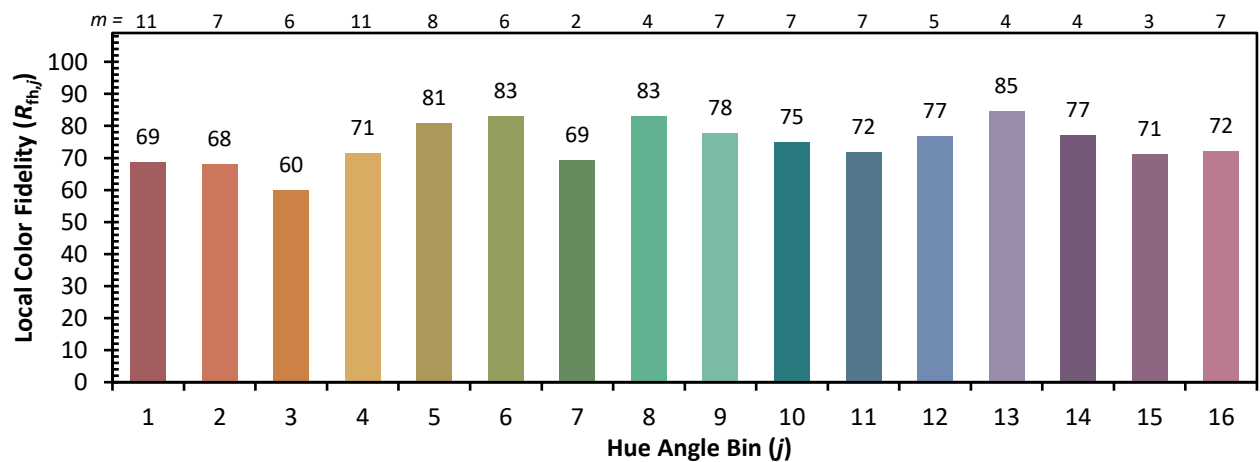
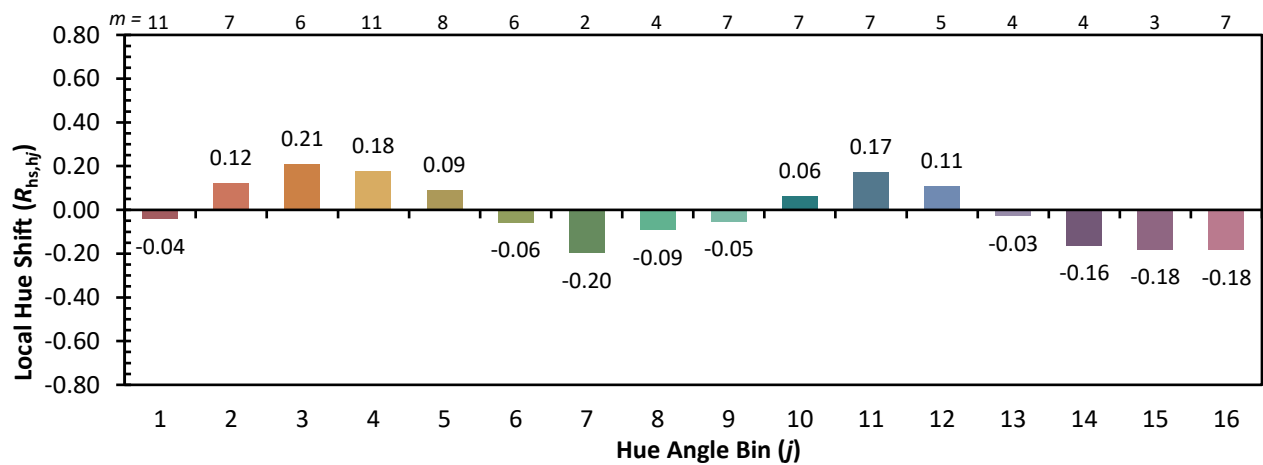
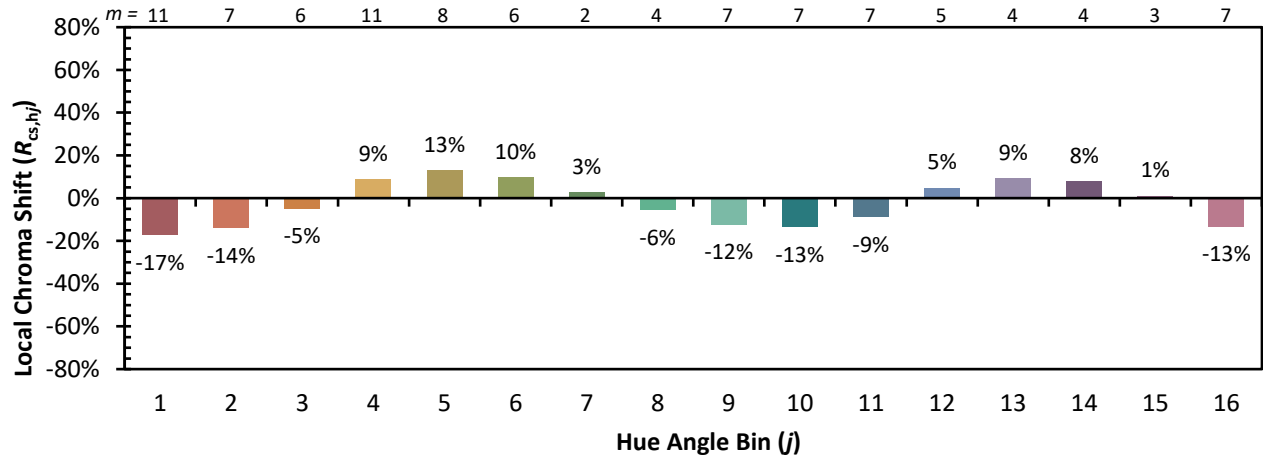


Individual Sample Fidelity Index ($R_{f,i}$)

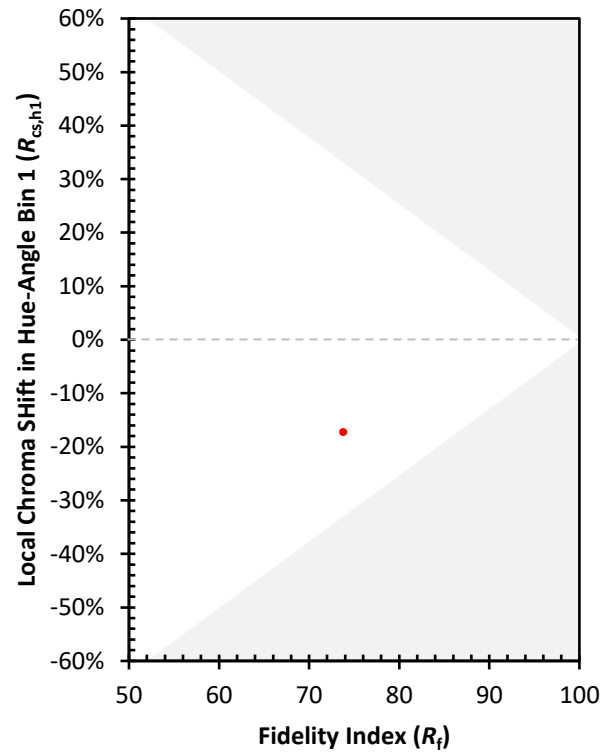
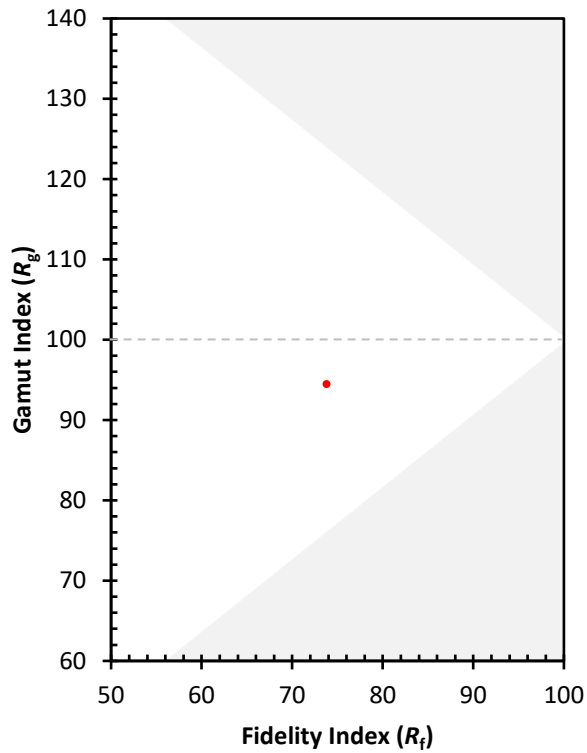
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 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)