

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: P1049766

Luminaire Tested: **GALN-SA5B-830-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049766
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-830-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 5xLight Square PACKAGE
80CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18253.6 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

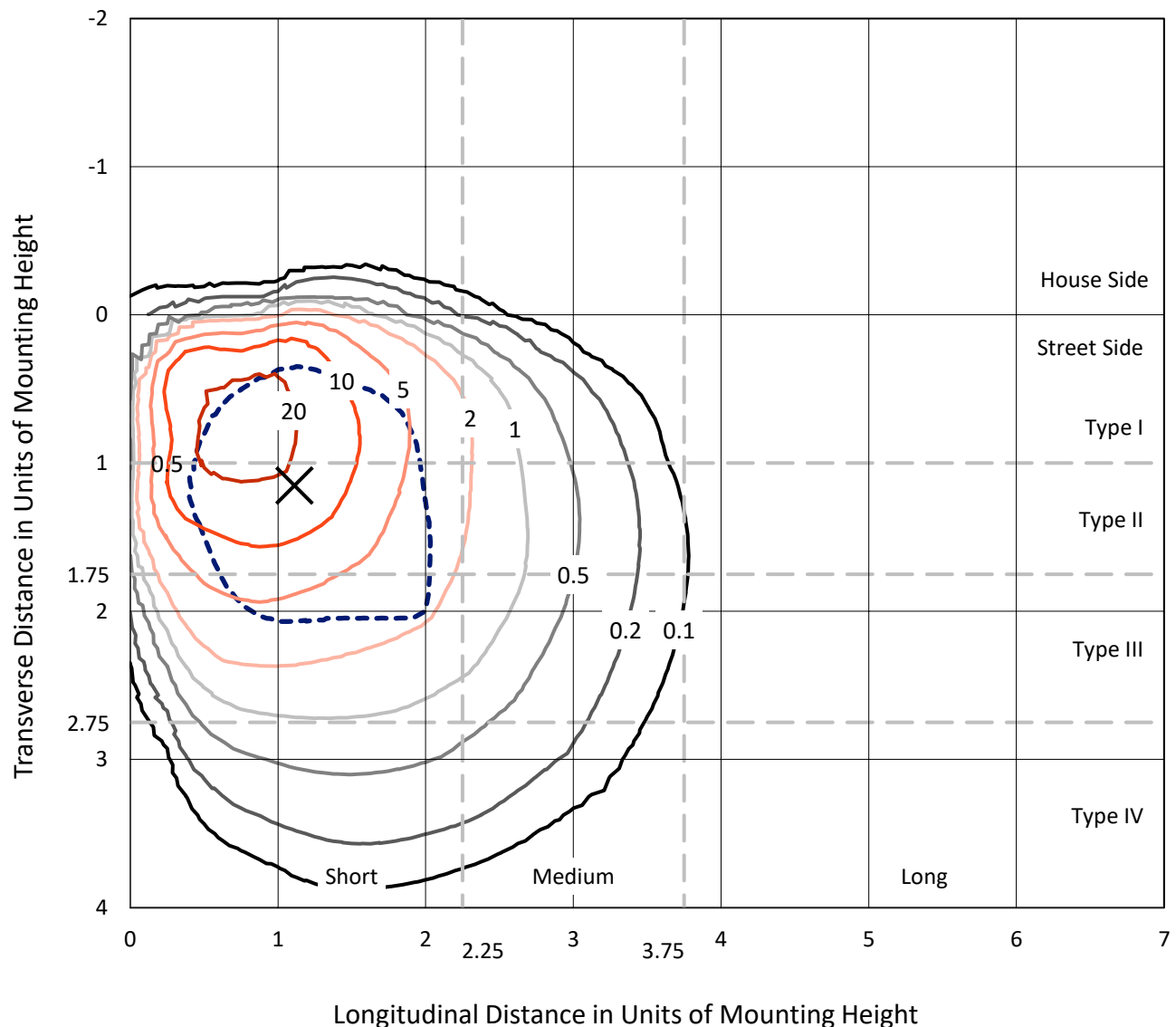
Input Watts (W): 178.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

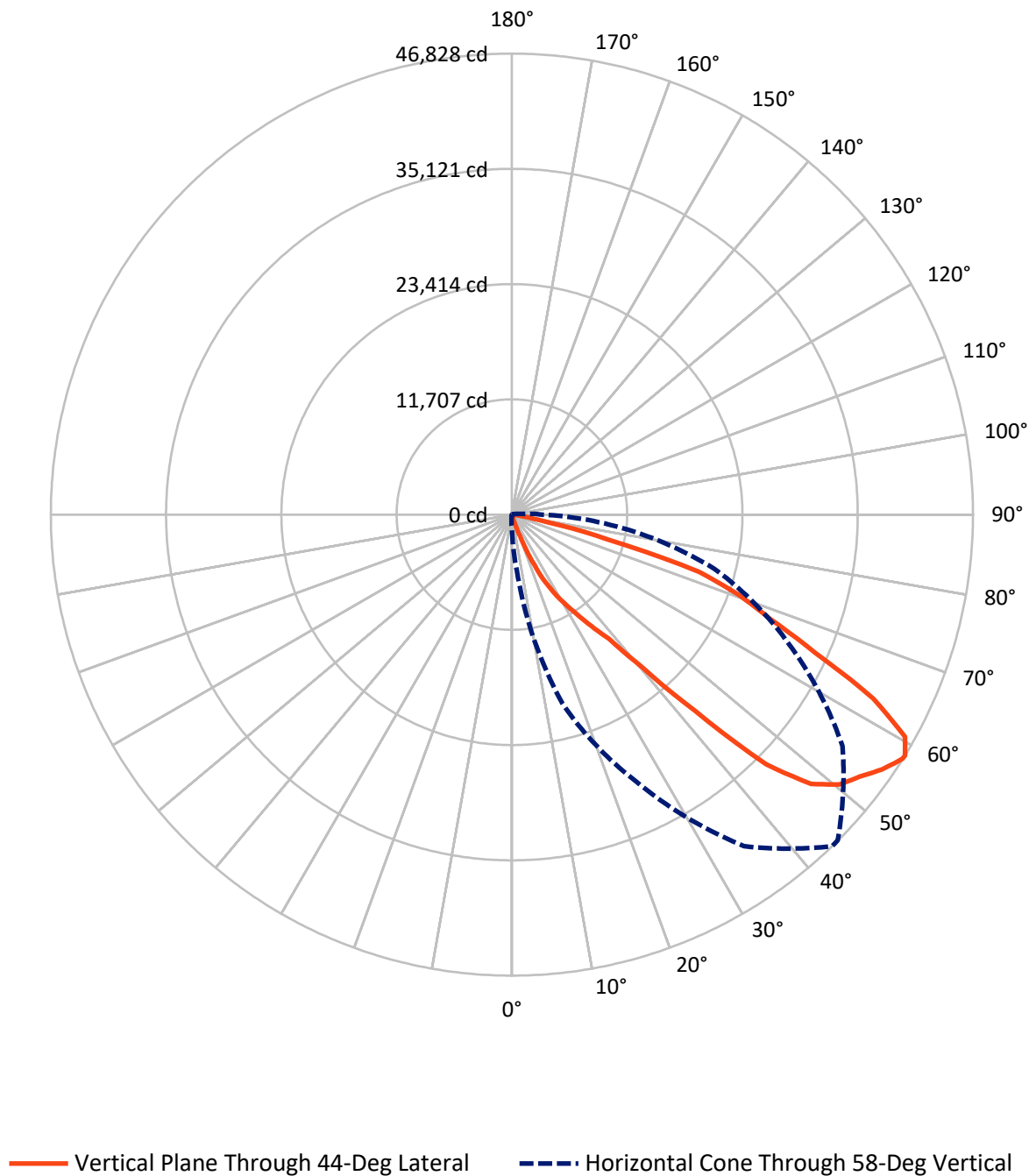


Based on 20 foot mounting height. Maximum calculated value = 31.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	124.6	0.0	124.6
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	18129.0	0.0	18129.0
	% Fixture	99.3	0.0	99.3
Total	Lumens	18253.6	0.0	18253.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.1	0.0
10°-20°	40.0	0.2
20°-30°	432.4	2.4
30°-40°	1278.8	7.0
40°-50°	3811.7	20.9
50°-60°	6048.2	33.1
60°-70°	5044.9	27.6
70°-80°	1555.9	8.5
80°-90°	34.6	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°	18253.6	100.0
0°-180°	18253.6	100.0

Coefficient of Utilization



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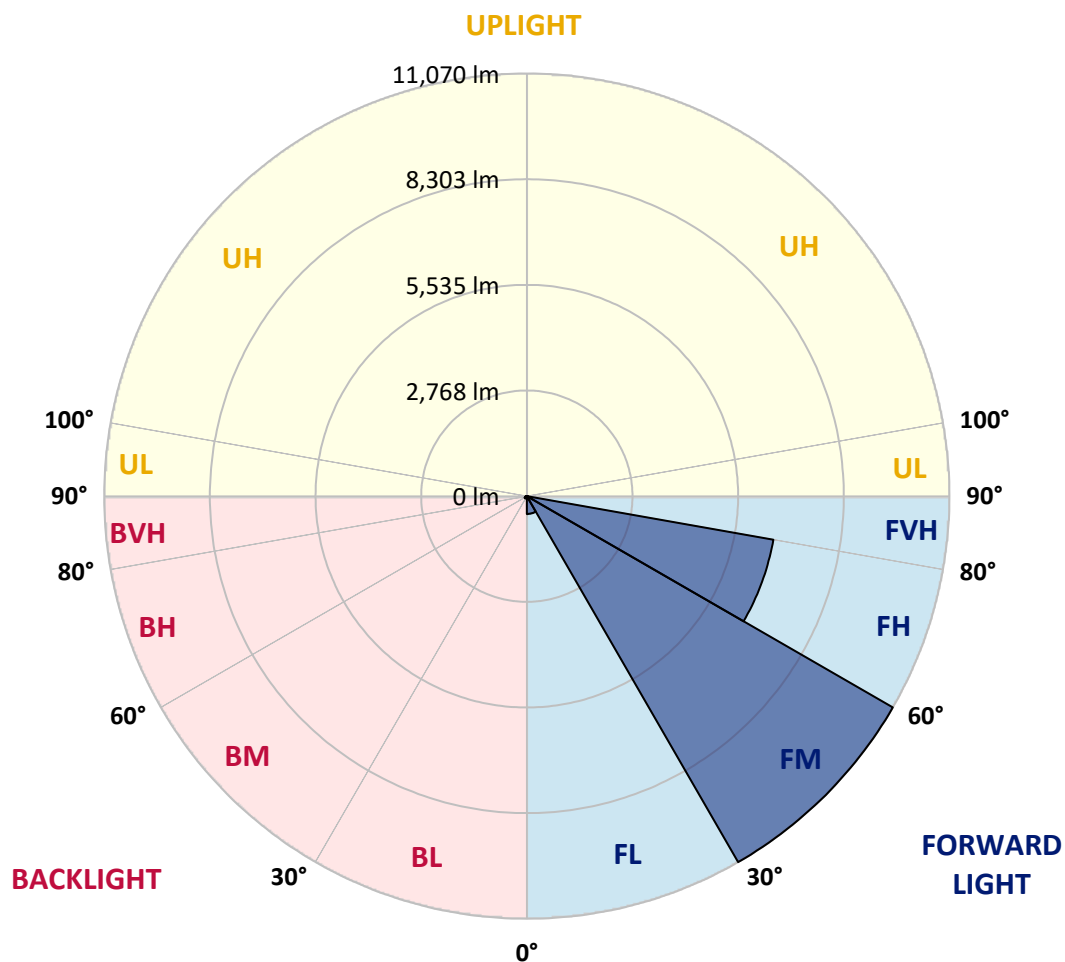
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	467.4	2.6			
FM	(30°-60°)	11070.5	60.6			
FH	(60°-80°)	6558.3	35.9			G3/7500
FVH	(80°-90°)	32.9	0.2			G1/100
BL	(0°-30°)	12.2	0.1	B0/110		
BM	(30°-60°)	68.2	0.4	B0/220		
BH	(60°-80°)	42.6	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°	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
2.5°	103.4	103.4	99.3	93.8	88.3	82.7	81.4	78.6	77.2	75.8
5°	107.6	107.6	106.2	102.0	96.5	92.4	92.4	88.3	85.5	82.7
7.5°	110.3	111.7	114.4	113.1	110.3	106.2	106.2	103.4	99.3	92.4
10°	114.4	118.6	124.1	126.9	128.2	128.2	126.9	125.5	118.6	108.9
12.5°	118.6	126.9	140.6	154.4	162.7	173.7	172.4	169.6	151.7	131.0
15°	126.9	139.3	168.2	208.2	270.3	308.9	324.0	310.3	251.0	176.5
17.5°	136.5	157.2	244.1	435.7	714.3	846.6	926.6	861.8	570.9	335.1
20°	146.2	191.7	453.7	1129.3	1853.3	2286.2	2406.2	2218.7	1424.4	638.4
22.5°	162.7	268.9	919.7	2334.5	3993.3	4642.8	4765.5	4165.7	2690.2	1260.3
25°	197.2	390.2	1585.7	3804.4	5959.6	7055.9	7004.9	6218.9	4364.2	2013.2
27.5°	246.8	568.1	2397.9	5405.3	7843.2	8809.8	8925.7	7953.5	5817.6	2960.5
30°	318.5	787.4	3269.4	6687.7	9353.1	10398.3	10417.6	9412.4	7117.9	3792.0
32.5°	387.5	994.2	4031.9	7927.3	10841.0	11986.8	12072.3	10835.5	8088.7	4658.0
35°	439.9	1129.3	4804.1	9016.7	12341.2	13920.1	13914.6	12446.0	9238.7	5431.5
37.5°	444.0	1264.5	5503.2	10130.8	14241.4	16009.1	16184.2	14565.4	10628.6	6388.5
40°	434.4	1416.1	6388.5	11868.3	17665.2	20377.5	20531.9	18491.2	13416.8	8026.6
42.5°	445.4	1679.5	7825.3	15077.0	23350.4	27245.8	27543.7	25398.1	18542.2	11369.1
45°	503.3	2174.5	10835.5	20445.1	31454.3	36203.2	36103.9	33013.8	24505.9	16457.3
47.5°	695.0	3386.6	15297.6	25669.7	36633.4	40862.6	40948.0	37171.2	27986.3	20369.2
50°	1068.7	5181.9	19046.9	28431.7	38860.4	43103.3	43023.3	38659.1	29308.7	22295.6
52.5°	1389.9	6480.9	20927.7	29401.1	39145.8	44210.5	44205.0	39050.7	29514.1	22461.0
55°	1469.9	6578.8	20942.9	29453.5	39785.6	45659.8	45841.8	40014.5	29780.3	21738.5
57.5°	1438.2	5824.5	20068.6	29756.8	40924.6	46780.8	46790.5	40948.0	30455.9	21295.9
58°	1410.6	5705.9	19892.1	29929.2	41120.4	46827.7	46804.3	40990.8	31006.1	21279.3
60°	1256.2	4954.4	19204.0	30369.1	40829.5	45865.2	45646.0	40057.3	30924.8	21109.7
62.5°	987.3	3865.1	18527.0	29860.2	37710.4	41205.9	41296.9	35464.1	28191.8	20121.0
65°	786.0	2880.5	17115.0	26192.4	31053.0	33838.4	34177.6	28838.5	23531.1	17037.8
67.5°	626.0	2082.2	14357.2	20853.2	24572.1	28241.4	28488.2	24212.2	18230.5	13054.1
70°	508.8	1407.9	9910.2	15250.7	20267.2	24392.9	24408.0	20114.1	13607.1	8553.4
72.5°	450.9	974.9	5752.8	11122.3	16433.8	19877.0	19475.7	16322.1	10457.6	5066.1
75°	390.2	646.7	2821.2	6799.4	9964.0	10031.6	10184.6	7571.6	5227.4	2409.0
77.5°	321.3	459.2	1111.4	1857.4	2988.1	3825.1	3967.1	3006.0	1738.8	592.9
80°	220.6	217.9	299.2	569.5	854.9	1071.4	999.7	773.6	455.0	227.5
82.5°	95.1	103.4	135.1	162.7	132.4	128.2	122.7	78.6	60.7	46.9
85°	30.3	27.6	29.0	29.0	23.4	17.9	17.9	8.3	0.0	0.0
87.5°	15.2	12.4	12.4	11.0	6.9	2.8	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°
80.0	0°	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
74.5	2.5°	73.1	73.1	70.3	67.6	66.2	63.4	62.1	60.7	59.3	57.9
80.0	5°	77.2	75.8	71.7	67.6	63.4	59.3	56.5	53.8	51.0	49.6
88.3	7.5°	84.1	81.4	73.1	66.2	60.7	55.2	52.4	48.3	45.5	41.4
97.9	10°	92.4	86.9	75.8	67.6	59.3	52.4	48.3	44.1	40.0	34.5
111.7	12.5°	103.4	93.8	80.0	66.2	56.5	48.3	44.1	38.6	34.5	30.3
129.6	15°	113.1	100.7	81.4	66.2	53.8	44.1	38.6	33.1	29.0	23.4
162.7	17.5°	126.9	106.2	80.0	62.1	49.6	38.6	33.1	29.0	22.1	13.8
241.3	20°	150.3	110.3	77.2	57.9	42.7	31.7	24.8	19.3	9.7	2.8
362.7	22.5°	187.5	121.3	74.5	52.4	37.2	24.8	16.5	6.9	0.0	0.0
551.6	25°	259.2	140.6	74.5	49.6	33.1	17.9	5.5	0.0	0.0	0.0
783.2	27.5°	344.7	166.8	74.5	42.7	26.2	9.7	0.0	0.0	0.0	0.0
1067.3	30°	431.6	195.8	74.5	37.2	20.7	1.4	0.0	0.0	0.0	0.0
1314.1	32.5°	514.3	220.6	75.8	31.7	13.8	0.0	0.0	0.0	0.0	0.0
1656.1	35°	598.4	224.8	74.5	27.6	8.3	0.0	0.0	0.0	0.0	0.0
2075.3	37.5°	706.0	216.5	70.3	24.8	4.1	0.0	0.0	0.0	0.0	0.0
2730.2	40°	868.7	220.6	66.2	23.4	1.4	0.0	0.0	0.0	0.0	0.0
3898.2	42.5°	1169.3	238.6	60.7	23.4	0.0	0.0	0.0	0.0	0.0	0.0
6209.2	45°	2021.5	319.9	55.2	24.8	0.0	0.0	0.0	0.0	0.0	0.0
9321.4	47.5°	3343.9	575.0	53.8	24.8	0.0	0.0	0.0	0.0	0.0	0.0
11228.4	50°	4267.7	723.9	56.5	26.2	0.0	0.0	0.0	0.0	0.0	0.0
11467.0	52.5°	4260.8	806.7	59.3	27.6	5.5	0.0	0.0	0.0	0.0	0.0
10569.3	55°	3787.9	821.8	63.4	30.3	17.9	0.0	0.0	0.0	0.0	0.0
9082.9	57.5°	3166.0	750.1	73.1	37.2	33.1	0.0	0.0	0.0	0.0	0.0
8849.8	58°	3055.7	717.0	75.8	38.6	35.9	0.0	0.0	0.0	0.0	0.0
7676.4	60°	2504.1	584.7	96.5	48.3	48.3	0.0	0.0	0.0	0.0	0.0
6293.3	62.5°	1729.2	510.2	110.3	62.1	49.6	0.0	0.0	0.0	0.0	0.0
4640.0	65°	1223.1	460.6	120.0	66.2	40.0	0.0	0.0	0.0	0.0	0.0
3297.0	67.5°	914.2	424.7	132.4	67.6	20.7	0.0	0.0	0.0	0.0	0.0
2068.4	70°	700.5	398.5	162.7	71.7	5.5	0.0	0.0	0.0	0.0	0.0
1232.7	72.5°	570.9	368.2	197.2	74.5	0.0	0.0	0.0	0.0	0.0	0.0
739.1	75°	473.0	332.3	190.3	81.4	0.0	0.0	0.0	0.0	0.0	0.0
394.4	77.5°	314.4	257.9	173.7	81.4	0.0	0.0	0.0	0.0	0.0	0.0
140.6	80°	110.3	102.0	135.1	71.7	0.0	0.0	0.0	0.0	0.0	0.0
29.0	82.5°	16.5	13.8	19.3	24.8	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°
80.0	0°	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
56.5	2.5°	56.5	56.5	55.2	56.5	56.5	59.3	66.2	75.8	86.9	91.0
48.3	5°	46.9	45.5	44.1	44.1	44.1	48.3	53.8	64.8	77.2	82.7
40.0	7.5°	38.6	37.2	35.9	34.5	34.5	37.2	44.1	56.5	68.9	74.5
33.1	10°	31.7	29.0	27.6	26.2	26.2	29.0	35.9	48.3	62.1	67.6
27.6	12.5°	26.2	22.1	19.3	17.9	16.5	20.7	27.6	38.6	53.8	60.7
20.7	15°	17.9	13.8	9.7	8.3	6.9	11.0	17.9	30.3	45.5	53.8
11.0	17.5°	9.7	4.1	1.4	0.0	0.0	2.8	8.3	22.1	37.2	44.1
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	27.6	34.5
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	16.5	23.4
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	12.4
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
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	4.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	11.0
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):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
80.0	0°	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
95.1	2.5°	97.9	96.5	93.8	91.0	91.0	91.0	95.1	99.3	103.4	103.4
85.5	5°	91.0	91.0	89.6	86.9	86.9	88.3	93.8	100.7	106.2	107.6
78.6	7.5°	84.1	86.9	84.1	82.7	84.1	85.5	91.0	99.3	107.6	110.3
73.1	10°	80.0	81.4	81.4	80.0	80.0	82.7	88.3	99.3	110.3	114.4
66.2	12.5°	74.5	77.2	75.8	75.8	75.8	78.6	85.5	97.9	113.1	118.6
59.3	15°	68.9	73.1	73.1	71.7	71.7	73.1	82.7	96.5	117.2	126.9
51.0	17.5°	63.4	67.6	68.9	66.2	66.2	68.9	78.6	96.5	120.0	136.5
41.4	20°	52.4	59.3	63.4	59.3	59.3	62.1	71.7	91.0	121.3	146.2
30.3	22.5°	41.4	48.3	53.8	52.4	52.4	53.8	66.2	86.9	122.7	162.7
17.9	25°	30.3	37.2	41.4	44.1	44.1	48.3	60.7	84.1	128.2	197.2
8.3	27.5°	17.9	26.2	31.7	34.5	35.9	41.4	56.5	81.4	137.9	246.8
0.0	30°	8.3	15.2	22.1	27.6	27.6	37.2	52.4	78.6	150.3	318.5
0.0	32.5°	0.0	6.9	11.0	19.3	20.7	30.3	48.3	75.8	168.2	387.5
0.0	35°	0.0	0.0	5.5	15.2	15.2	24.8	44.1	73.1	195.8	439.9
0.0	37.5°	0.0	0.0	0.0	11.0	12.4	22.1	42.7	71.7	201.3	444.0
0.0	40°	0.0	0.0	0.0	8.3	9.7	20.7	42.7	73.1	182.0	434.4
0.0	42.5°	0.0	0.0	0.0	5.5	6.9	20.7	42.7	75.8	164.1	445.4
0.0	45°	0.0	0.0	0.0	4.1	5.5	22.1	41.4	74.5	154.4	503.3
0.0	47.5°	0.0	0.0	0.0	5.5	8.3	22.1	40.0	73.1	155.8	695.0
0.0	50°	0.0	0.0	0.0	6.9	9.7	22.1	41.4	70.3	171.0	1068.7
0.0	52.5°	0.0	0.0	0.0	5.5	8.3	24.8	45.5	68.9	186.2	1389.9
0.0	55°	0.0	0.0	0.0	1.4	4.1	31.7	49.6	68.9	209.6	1469.9
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	35.9	56.5	73.1	248.2	1438.2
0.0	58°	0.0	0.0	0.0	0.0	0.0	35.9	57.9	73.1	251.0	1410.6
0.0	60°	0.0	0.0	0.0	0.0	0.0	35.9	63.4	81.4	270.3	1256.2
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	30.3	75.8	102.0	281.3	987.3
0.0	65°	0.0	0.0	0.0	0.0	0.0	24.8	89.6	111.7	289.6	786.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	23.4	92.4	113.1	293.7	626.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	24.8	91.0	121.3	307.5	508.8
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	27.6	82.7	133.8	307.5	450.9
0.0	75°	0.0	0.0	0.0	0.0	0.0	29.0	77.2	150.3	279.9	390.2
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	27.6	75.8	175.1	249.6	321.3
0.0	80°	2.8	4.1	4.1	2.8	2.8	23.4	74.5	177.9	212.4	220.6
1.4	82.5°	8.3	11.0	9.7	6.9	6.9	20.7	66.2	148.9	110.3	95.1
8.3	85°	15.2	17.9	17.9	15.2	15.2	19.3	41.4	53.8	37.2	30.3
15.2	87.5°	20.7	23.4	23.4	20.7	20.7	19.3	17.9	16.5	15.2	15.2
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: SP1-2407-184-9

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-830-U-5WQ

Data in this report applies to families of products including GSS-SB1A-830-U-5WQ

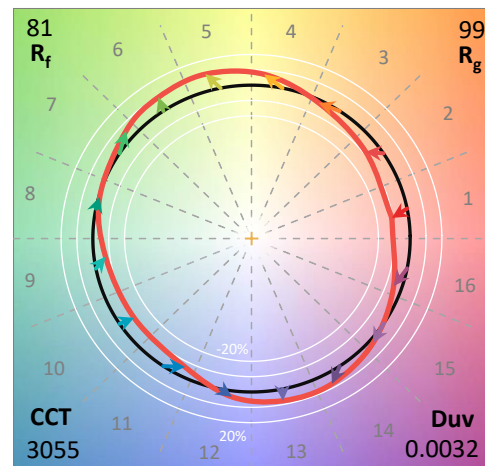
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-9
 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-830-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3055
 CIE u' : 0.2475
 CIE v' : 0.5247
 Duv: 0.0032
 CIE x: 0.4377
 CIE y: 0.4124
 CIE z: 0.1499
 Peak Wavelength (nm): 604
 Dominant Wavelength (nm): 581
 Purity: 55.16339
 R_f: 81.5
 R_g: 99.2

CRI (Ra): 80.9
 R1: 79.5
 R2: 85.6
 R3: 92.1
 R4: 82.4
 R5: 78.9
 R6: 81.7
 R7: 85.1
 R8: 61.9
 R9: 6.8
 R10: 67.1
 R11: 82.5
 R12: 63.4
 R13: 80.2
 R14: 95.1
 R15: 71.7



Test Conditions

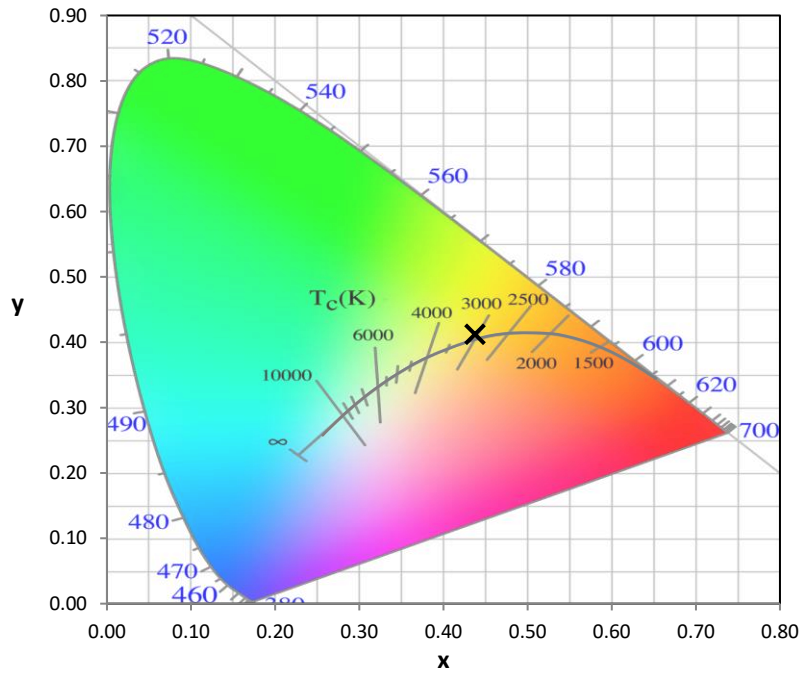
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-9

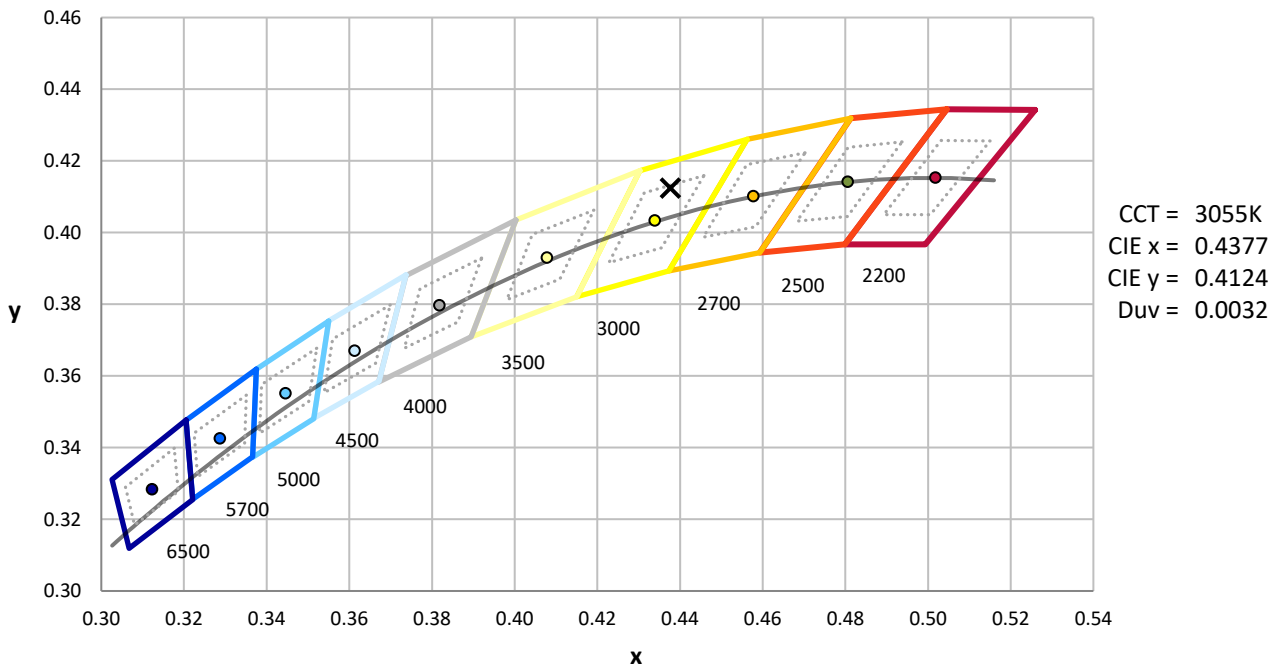
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-9

CIE 1931 Chromaticity Diagram



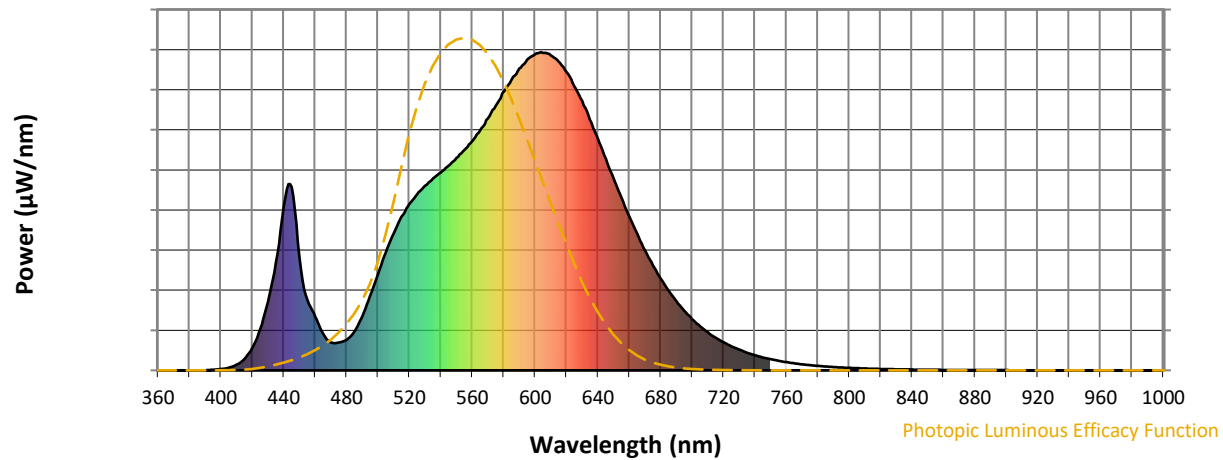
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-9

Photopic Flux vs. Wavelength

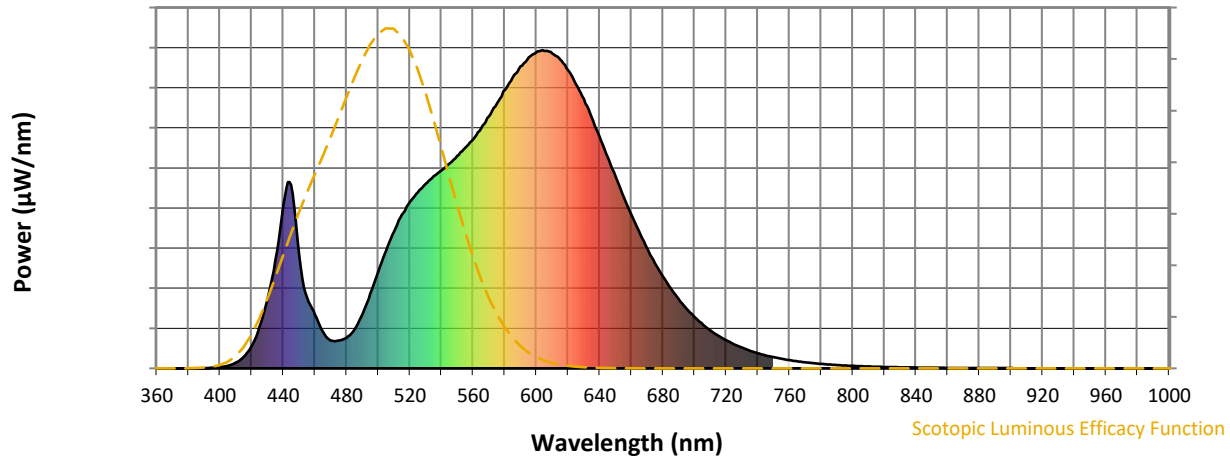


Photopic Lumens: NR

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

Scotopic Flux vs. Wavelength



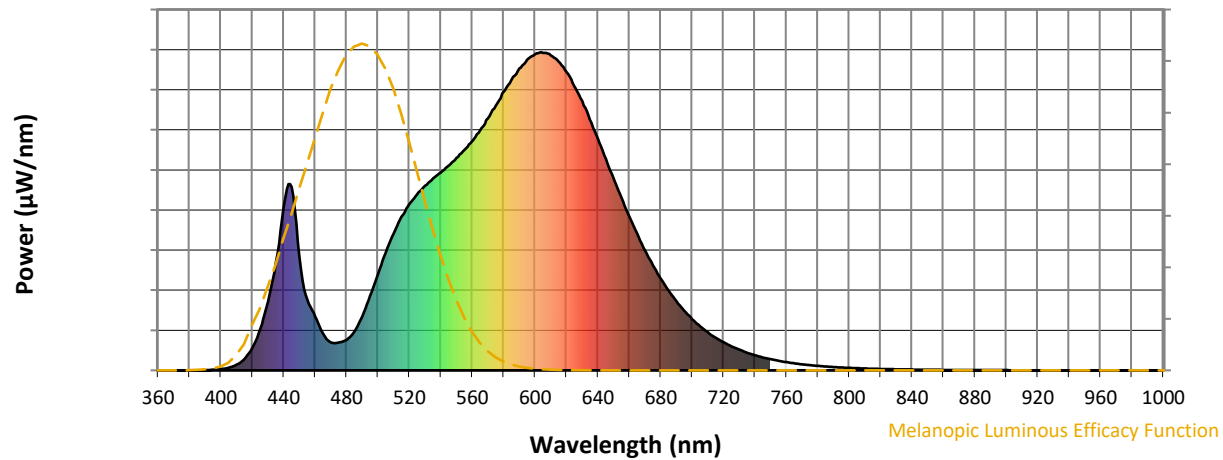
Scotopic Lumens: NR

S/P: 1.28

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.33

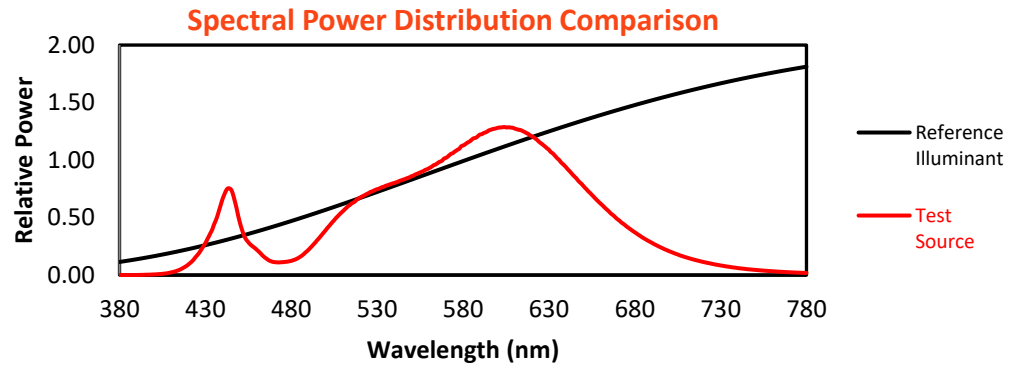
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

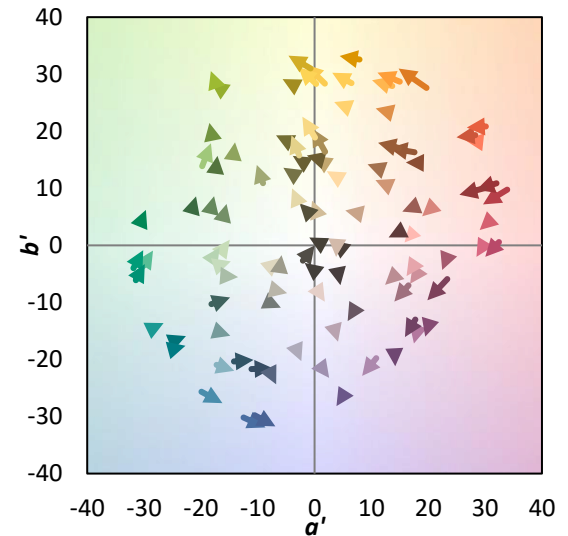
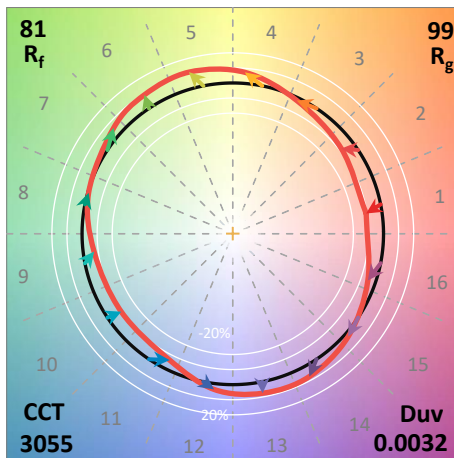
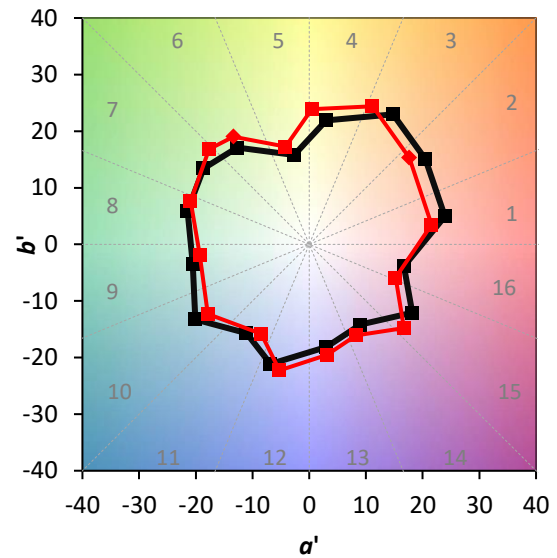
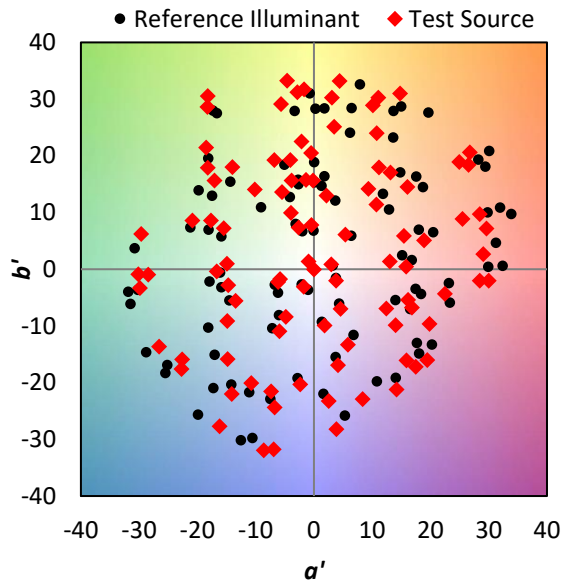
TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 80.9$
 $R_9 = 6.8$

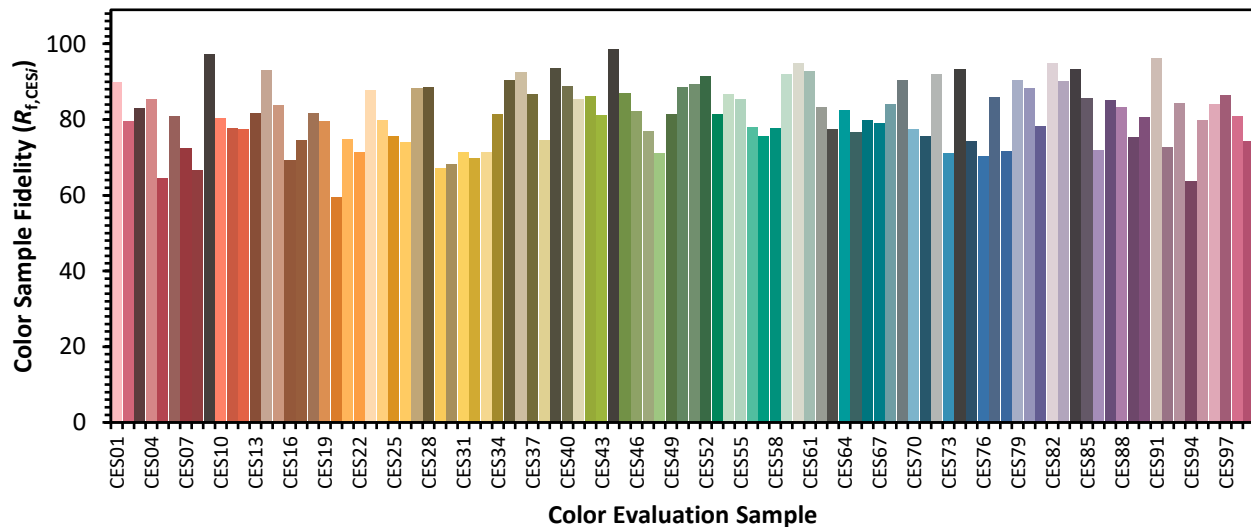


Color Vector Graphics

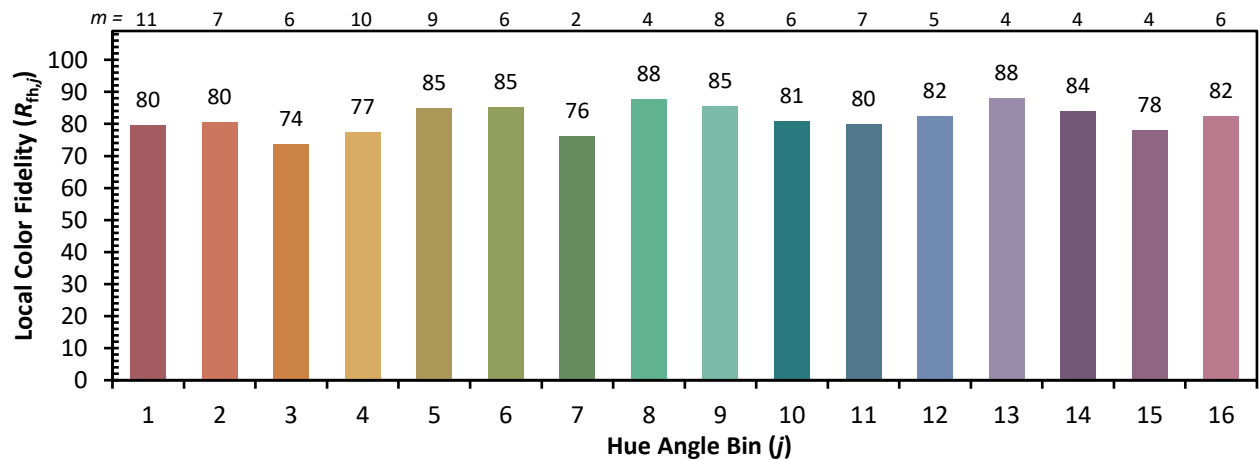
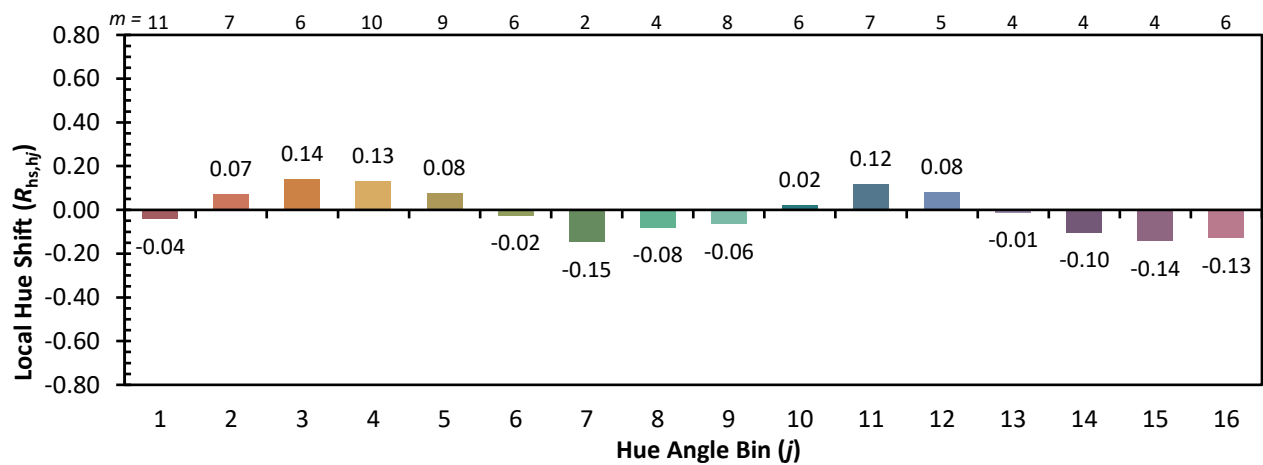
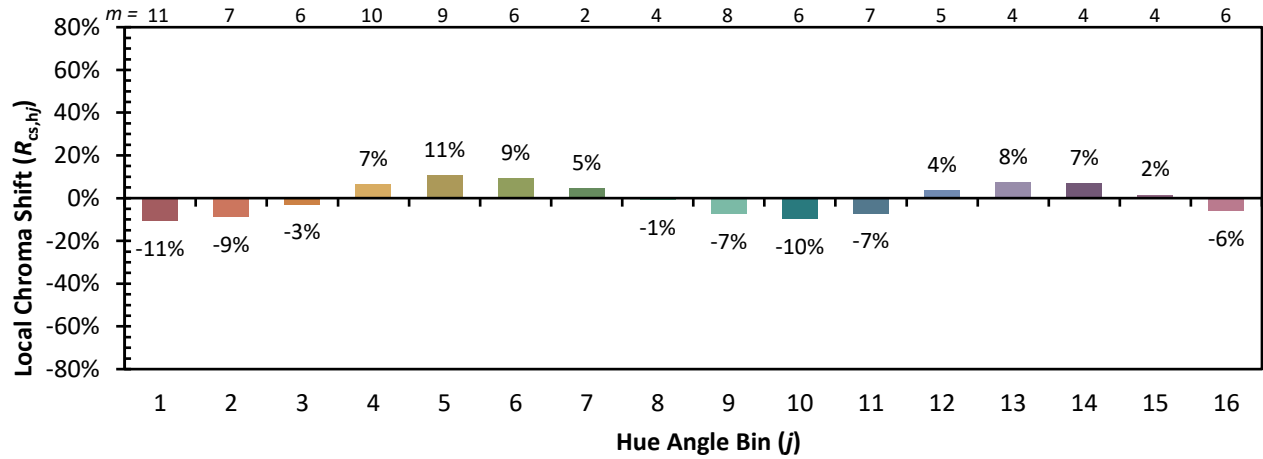


Individual Sample Fidelity Index ($R_{f,i}$)

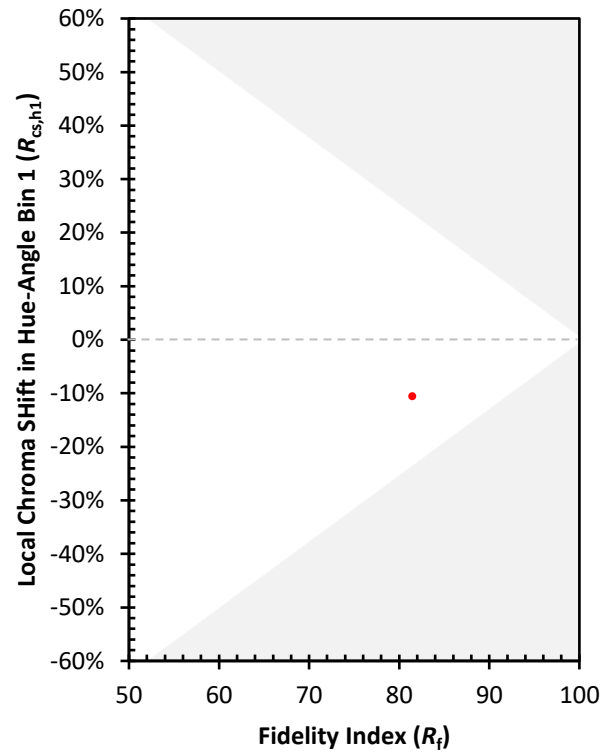
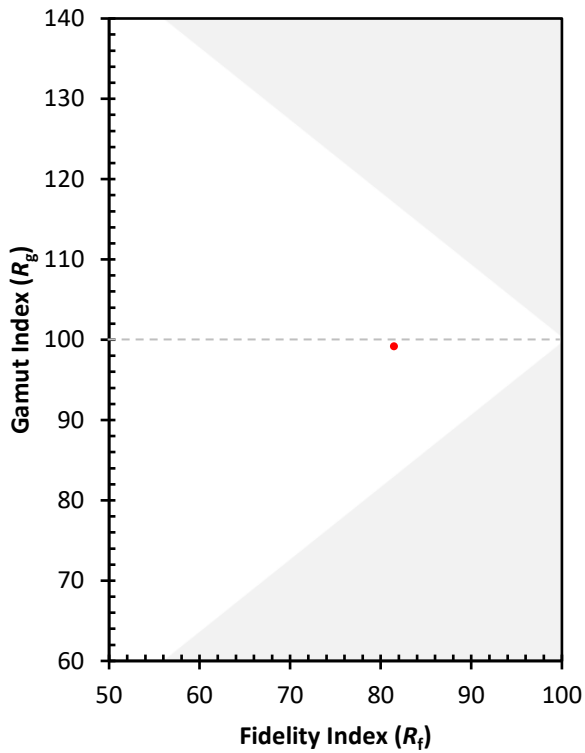
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 93
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 90	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 77	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)