

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: P1049601

Luminaire Tested: **GALN-SA9A-730-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049601
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-730-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 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: 28512.9 lumens
Efficiency: N/A
Efficacy: 116.6 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): 244.6
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

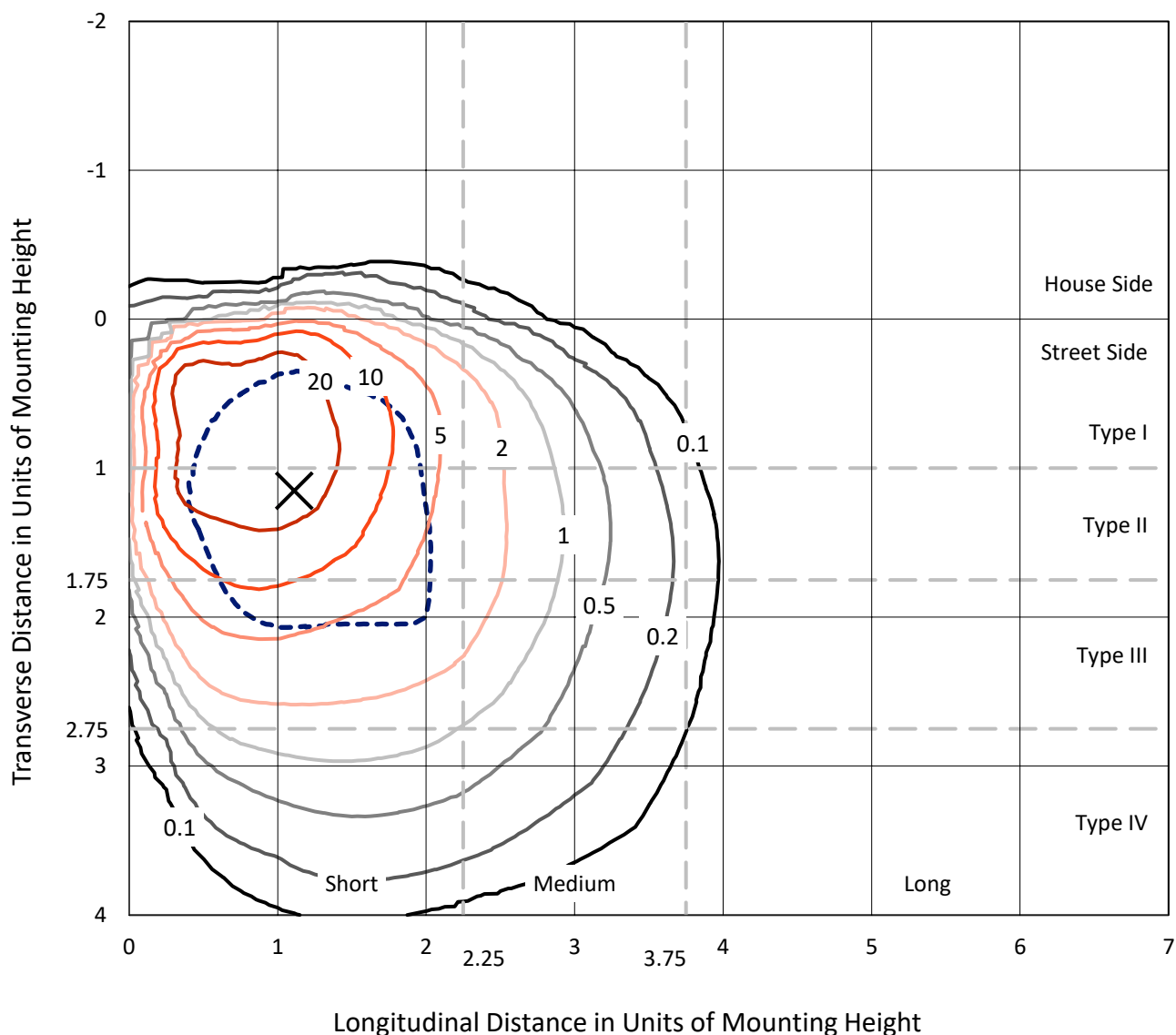
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

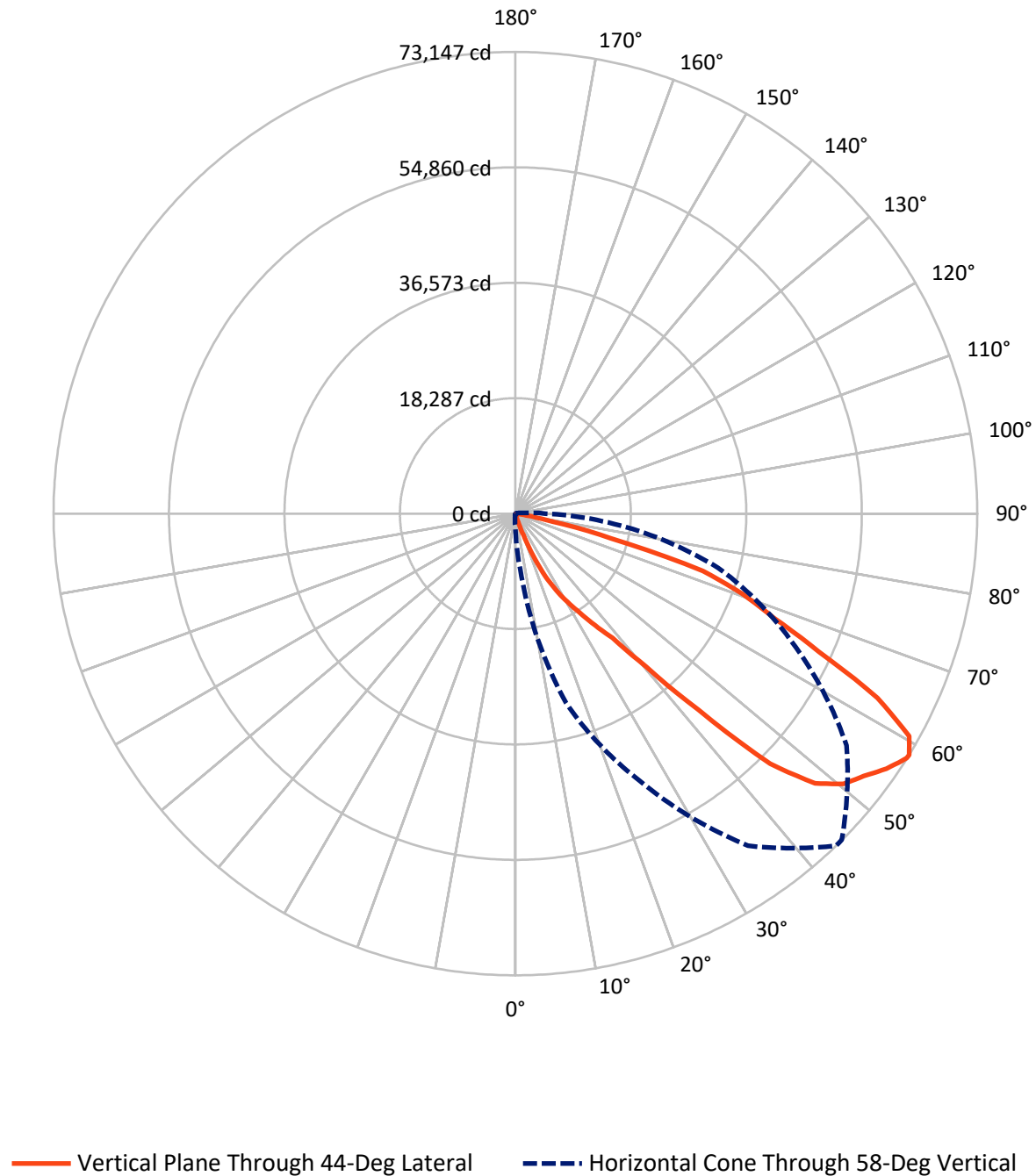


Based on 20 foot mounting height. Maximum calculated value = 49.6 fc

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	194.7	0.0	194.7
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	28318.2	0.0	28318.2
	% Fixture	99.3	0.0	99.3
Total	Lumens	28512.9	0.0	28512.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.1	0.0
10°-20°	62.5	0.2
20°-30°	675.5	2.4
30°-40°	1997.6	7.0
40°-50°	5954.0	20.9
50°-60°	9447.5	33.1
60°-70°	7880.3	27.6
70°-80°	2430.4	8.5
80°-90°	54.0	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°	28512.9	100.0
0°-180°	28512.9	100.0



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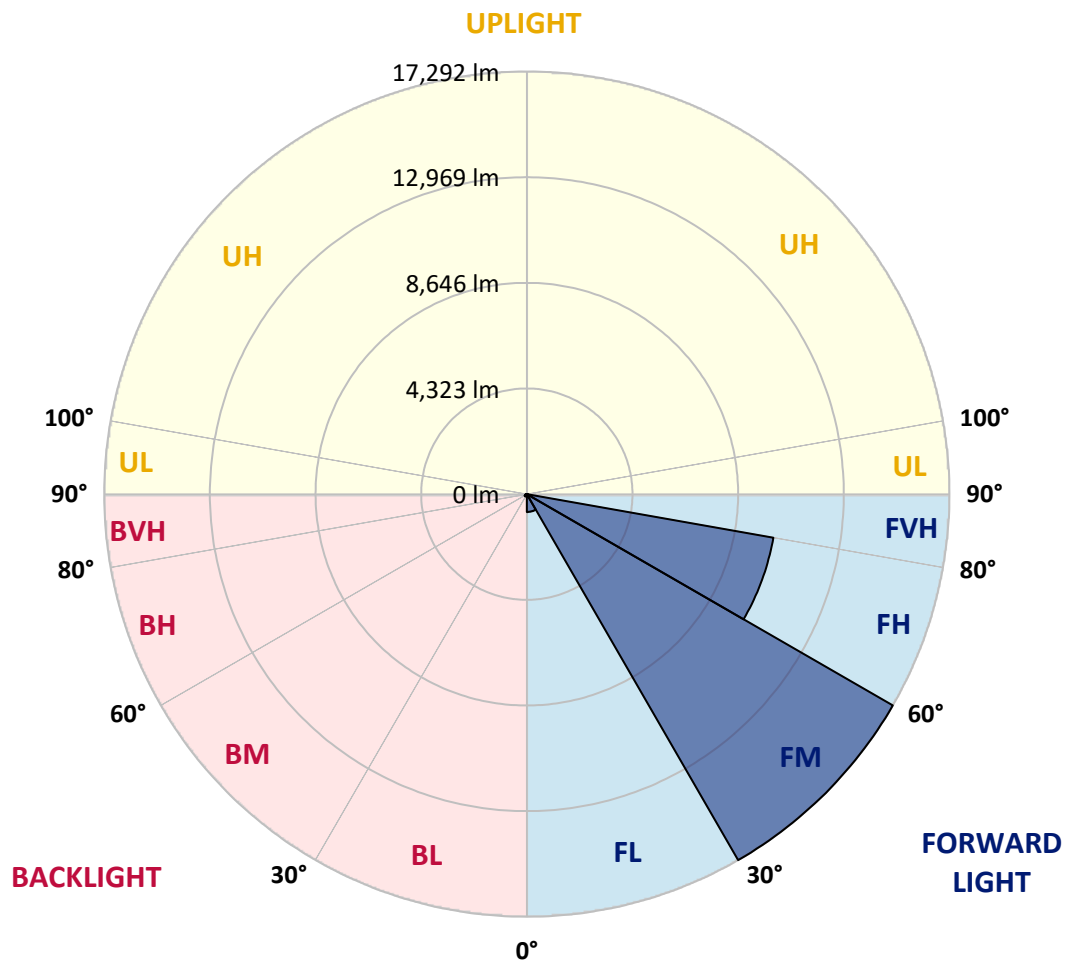
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	730.1	2.6			
FM	(30°-60°)	17292.5	60.6			
FH	(60°-80°)	10244.3	35.9			G4/12000
FVH	(80°-90°)	51.4	0.2			G1/100
BL	(0°-30°)	19.0	0.1	B0/110		
BM	(30°-60°)	106.6	0.4	B0/220		
BH	(60°-80°)	66.5	0.2	B0/110		G0/110
BVH	(80°-90°)	2.6	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°
0°	124.9	124.9	124.9	124.9	124.9	124.9	124.9	124.9	124.9	124.9
2.5°	161.5	161.5	155.1	146.5	137.9	129.2	127.1	122.8	120.6	118.5
5°	168.0	168.0	165.9	159.4	150.8	144.3	144.3	137.9	133.5	129.2
7.5°	172.3	174.5	178.8	176.6	172.3	165.9	165.9	161.5	155.1	144.3
10°	178.8	185.2	193.9	198.2	200.3	200.3	198.2	196.0	185.2	170.2
12.5°	185.2	198.2	219.7	241.2	254.2	271.4	269.2	264.9	236.9	204.6
15°	198.2	217.5	262.8	325.2	422.2	482.5	506.2	484.6	392.0	275.7
17.5°	213.2	245.5	381.2	680.6	1115.7	1322.5	1447.4	1346.2	891.7	523.4
20°	228.3	299.4	708.6	1764.1	2894.9	3571.2	3758.6	3465.6	2225.0	997.3
22.5°	254.2	420.0	1436.7	3646.6	6237.7	7252.2	7443.9	6507.0	4202.3	1968.7
25°	308.0	609.6	2477.0	5942.6	9309.2	11021.5	10941.9	9714.1	6817.1	3144.7
27.5°	385.5	887.4	3745.6	8443.3	12251.4	13761.3	13942.2	12423.7	9087.3	4624.4
30°	497.6	1229.9	5106.9	10446.5	14610.0	16242.6	16272.8	14702.6	11118.5	5923.2
32.5°	605.2	1553.0	6298.0	12382.8	16934.0	18723.9	18857.5	16925.4	12634.8	7275.9
35°	687.1	1764.1	7504.2	14084.4	19277.5	21743.7	21735.1	19441.2	14431.2	8484.2
37.5°	693.6	1975.1	8596.2	15824.8	22245.6	25006.9	25280.4	22751.7	16602.3	9979.1
40°	678.5	2212.1	9979.1	18538.7	27593.7	31830.5	32071.7	28883.9	20957.5	12537.9
42.5°	695.7	2623.5	12223.4	23550.8	36474.3	42559.1	43024.3	39672.8	28963.6	17759.0
45°	786.2	3396.7	16925.4	31936.0	49132.8	56550.9	56395.8	51568.9	38279.3	25706.9
47.5°	1085.6	5290.0	23895.5	40097.2	57222.9	63828.9	63962.5	58062.9	43715.7	31817.5
50°	1669.3	8094.4	29751.9	44411.4	60701.4	67329.0	67204.1	60387.0	45781.3	34826.5
52.5°	2171.1	10123.4	32689.9	45925.6	61147.3	69058.6	69050.0	60998.7	46102.3	35085.0
55°	2296.1	10276.3	32713.6	46007.5	62146.7	71322.4	71606.7	62504.3	46518.0	33956.4
57.5°	2246.5	9098.1	31348.0	46481.3	63925.8	73073.5	73088.6	63962.5	47573.4	33265.0
58°	2203.4	8912.9	31072.3	46750.6	64231.7	73146.7	73110.1	64029.2	48432.8	33239.1
60°	1962.2	7739.0	29997.5	47437.7	63777.2	71643.3	71300.8	62571.0	48305.7	32974.2
62.5°	1542.2	6037.4	28939.9	46642.9	58905.1	64365.2	64507.4	55396.4	44036.7	31429.8
65°	1227.7	4499.5	26734.3	40913.5	48506.0	52856.9	53386.8	45046.8	36756.4	26613.7
67.5°	977.9	3252.4	22426.5	32573.6	38382.6	44114.2	44499.7	37820.5	28476.8	20391.0
70°	794.8	2199.1	15480.1	23822.2	31658.1	38102.6	38126.3	31419.1	21254.8	13360.7
72.5°	704.3	1522.8	8986.1	17373.4	25670.3	31048.6	30421.8	25495.8	16335.2	7913.5
75°	609.6	1010.2	4406.9	10620.9	15564.1	15669.7	15908.8	11827.1	8165.5	3762.9
77.5°	501.9	717.3	1736.0	2901.3	4667.5	5974.9	6196.8	4695.5	2716.1	926.2
80°	344.6	340.3	467.4	889.6	1335.4	1673.6	1561.6	1208.3	710.8	355.4
82.5°	148.6	161.5	211.1	254.2	206.8	200.3	191.7	122.8	94.8	73.2
85°	47.4	43.1	45.2	45.2	36.6	28.0	28.0	12.9	0.0	0.0
87.5°	23.7	19.4	19.4	17.2	10.8	4.3	2.2	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°
124.9	0°	124.9	124.9	124.9	124.9	124.9	124.9	124.9	124.9	124.9	124.9
116.3	2.5°	114.2	114.2	109.8	105.5	103.4	99.1	96.9	94.8	92.6	90.5
124.9	5°	120.6	118.5	112.0	105.5	99.1	92.6	88.3	84.0	79.7	77.5
137.9	7.5°	131.4	127.1	114.2	103.4	94.8	86.2	81.8	75.4	71.1	64.6
152.9	10°	144.3	135.7	118.5	105.5	92.6	81.8	75.4	68.9	62.5	53.8
174.5	12.5°	161.5	146.5	124.9	103.4	88.3	75.4	68.9	60.3	53.8	47.4
202.5	15°	176.6	157.2	127.1	103.4	84.0	68.9	60.3	51.7	45.2	36.6
254.2	17.5°	198.2	165.9	124.9	96.9	77.5	60.3	51.7	45.2	34.5	21.5
376.9	20°	234.8	172.3	120.6	90.5	66.8	49.5	38.8	30.2	15.1	4.3
566.5	22.5°	292.9	189.5	116.3	81.8	58.2	38.8	25.8	10.8	0.0	0.0
861.6	25°	404.9	219.7	116.3	77.5	51.7	28.0	8.6	0.0	0.0	0.0
1223.4	27.5°	538.5	260.6	116.3	66.8	40.9	15.1	0.0	0.0	0.0	0.0
1667.1	30°	674.2	305.9	116.3	58.2	32.3	2.2	0.0	0.0	0.0	0.0
2052.7	32.5°	803.4	344.6	118.5	49.5	21.5	0.0	0.0	0.0	0.0	0.0
2586.8	35°	934.8	351.1	116.3	43.1	12.9	0.0	0.0	0.0	0.0	0.0
3241.6	37.5°	1102.8	338.2	109.8	38.8	6.5	0.0	0.0	0.0	0.0	0.0
4264.7	40°	1357.0	344.6	103.4	36.6	2.2	0.0	0.0	0.0	0.0	0.0
6089.1	42.5°	1826.5	372.6	94.8	36.6	0.0	0.0	0.0	0.0	0.0	0.0
9699.0	45°	3157.6	499.7	86.2	38.8	0.0	0.0	0.0	0.0	0.0	0.0
14560.4	47.5°	5223.2	898.2	84.0	38.8	0.0	0.0	0.0	0.0	0.0	0.0
17539.3	50°	6666.3	1130.8	88.3	40.9	0.0	0.0	0.0	0.0	0.0	0.0
17911.9	52.5°	6655.6	1260.0	92.6	43.1	8.6	0.0	0.0	0.0	0.0	0.0
16509.7	55°	5916.8	1283.7	99.1	47.4	28.0	0.0	0.0	0.0	0.0	0.0
14187.8	57.5°	4945.4	1171.7	114.2	58.2	51.7	0.0	0.0	0.0	0.0	0.0
13823.8	58°	4773.1	1120.0	118.5	60.3	56.0	0.0	0.0	0.0	0.0	0.0
11990.8	60°	3911.5	913.3	150.8	75.4	75.4	0.0	0.0	0.0	0.0	0.0
9830.4	62.5°	2701.0	796.9	172.3	96.9	77.5	0.0	0.0	0.0	0.0	0.0
7247.9	65°	1910.5	719.4	187.4	103.4	62.5	0.0	0.0	0.0	0.0	0.0
5150.0	67.5°	1428.0	663.4	206.8	105.5	32.3	0.0	0.0	0.0	0.0	0.0
3230.9	70°	1094.2	622.5	254.2	112.0	8.6	0.0	0.0	0.0	0.0	0.0
1925.6	72.5°	891.7	575.1	308.0	116.3	0.0	0.0	0.0	0.0	0.0	0.0
1154.5	75°	738.8	519.1	297.2	127.1	0.0	0.0	0.0	0.0	0.0	0.0
616.0	77.5°	491.1	402.8	271.4	127.1	0.0	0.0	0.0	0.0	0.0	0.0
219.7	80°	172.3	159.4	211.1	112.0	0.0	0.0	0.0	0.0	0.0	0.0
45.2	82.5°	25.8	21.5	30.2	38.8	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°
124.9	0°	124.9	124.9	124.9	124.9	124.9	124.9	124.9	124.9	124.9	124.9
88.3	2.5°	88.3	88.3	86.2	88.3	88.3	92.6	103.4	118.5	135.7	142.2
75.4	5°	73.2	71.1	68.9	68.9	68.9	75.4	84.0	101.2	120.6	129.2
62.5	7.5°	60.3	58.2	56.0	53.8	53.8	58.2	68.9	88.3	107.7	116.3
51.7	10°	49.5	45.2	43.1	40.9	40.9	45.2	56.0	75.4	96.9	105.5
43.1	12.5°	40.9	34.5	30.2	28.0	25.8	32.3	43.1	60.3	84.0	94.8
32.3	15°	28.0	21.5	15.1	12.9	10.8	17.2	28.0	47.4	71.1	84.0
17.2	17.5°	15.1	6.5	2.2	0.0	0.0	4.3	12.9	34.5	58.2	68.9
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2	43.1	53.8
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	25.8	36.6
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	19.4
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3
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	6.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	17.2
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°
124.9	0°	124.9	124.9	124.9	124.9	124.9	124.9	124.9	124.9	124.9	124.9
148.6	2.5°	152.9	150.8	146.5	142.2	142.2	142.2	148.6	155.1	161.5	161.5
133.5	5°	142.2	142.2	140.0	135.7	135.7	137.9	146.5	157.2	165.9	168.0
122.8	7.5°	131.4	135.7	131.4	129.2	131.4	133.5	142.2	155.1	168.0	172.3
114.2	10°	124.9	127.1	127.1	124.9	124.9	129.2	137.9	155.1	172.3	178.8
103.4	12.5°	116.3	120.6	118.5	118.5	118.5	122.8	133.5	152.9	176.6	185.2
92.6	15°	107.7	114.2	114.2	112.0	112.0	114.2	129.2	150.8	183.1	198.2
79.7	17.5°	99.1	105.5	107.7	103.4	103.4	107.7	122.8	150.8	187.4	213.2
64.6	20°	81.8	92.6	99.1	92.6	92.6	96.9	112.0	142.2	189.5	228.3
47.4	22.5°	64.6	75.4	84.0	81.8	81.8	84.0	103.4	135.7	191.7	254.2
28.0	25°	47.4	58.2	64.6	68.9	68.9	75.4	94.8	131.4	200.3	308.0
12.9	27.5°	28.0	40.9	49.5	53.8	56.0	64.6	88.3	127.1	215.4	385.5
0.0	30°	12.9	23.7	34.5	43.1	43.1	58.2	81.8	122.8	234.8	497.6
0.0	32.5°	0.0	10.8	17.2	30.2	32.3	47.4	75.4	118.5	262.8	605.2
0.0	35°	0.0	0.0	8.6	23.7	23.7	38.8	68.9	114.2	305.9	687.1
0.0	37.5°	0.0	0.0	0.0	17.2	19.4	34.5	66.8	112.0	314.5	693.6
0.0	40°	0.0	0.0	0.0	12.9	15.1	32.3	66.8	114.2	284.3	678.5
0.0	42.5°	0.0	0.0	0.0	8.6	10.8	32.3	66.8	118.5	256.3	695.7
0.0	45°	0.0	0.0	0.0	6.5	8.6	34.5	64.6	116.3	241.2	786.2
0.0	47.5°	0.0	0.0	0.0	8.6	12.9	34.5	62.5	114.2	243.4	1085.6
0.0	50°	0.0	0.0	0.0	10.8	15.1	34.5	64.6	109.8	267.1	1669.3
0.0	52.5°	0.0	0.0	0.0	8.6	12.9	38.8	71.1	107.7	290.8	2171.1
0.0	55°	0.0	0.0	0.0	2.2	6.5	49.5	77.5	107.7	327.4	2296.1
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	56.0	88.3	114.2	387.7	2246.5
0.0	58°	0.0	0.0	0.0	0.0	0.0	56.0	90.5	114.2	392.0	2203.4
0.0	60°	0.0	0.0	0.0	0.0	0.0	56.0	99.1	127.1	422.2	1962.2
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	47.4	118.5	159.4	439.4	1542.2
0.0	65°	0.0	0.0	0.0	0.0	0.0	38.8	140.0	174.5	452.3	1227.7
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	36.6	144.3	176.6	458.8	977.9
0.0	70°	0.0	0.0	0.0	0.0	0.0	38.8	142.2	189.5	480.3	794.8
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	43.1	129.2	208.9	480.3	704.3
0.0	75°	0.0	0.0	0.0	0.0	0.0	45.2	120.6	234.8	437.2	609.6
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	43.1	118.5	273.5	389.9	501.9
0.0	80°	4.3	6.5	6.5	4.3	4.3	36.6	116.3	277.9	331.7	344.6
2.2	82.5°	12.9	17.2	15.1	10.8	10.8	32.3	103.4	232.6	172.3	148.6
12.9	85°	23.7	28.0	28.0	23.7	23.7	30.2	64.6	84.0	58.2	47.4
23.7	87.5°	32.3	36.6	36.6	32.3	32.3	30.2	28.0	25.8	23.7	23.7
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

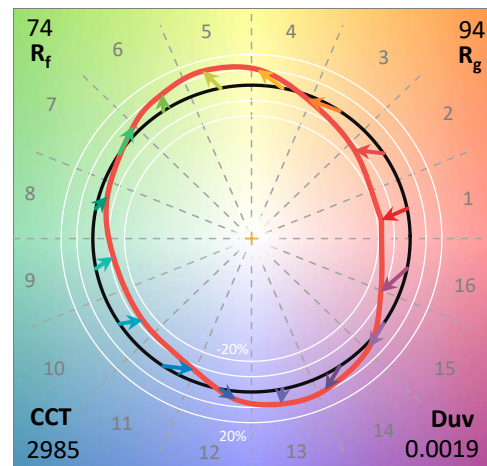
Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

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

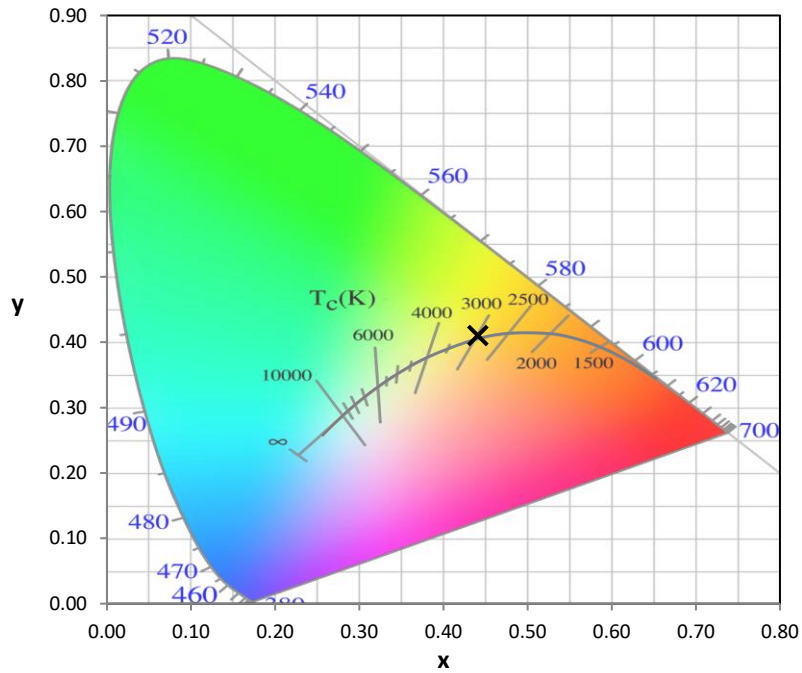
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

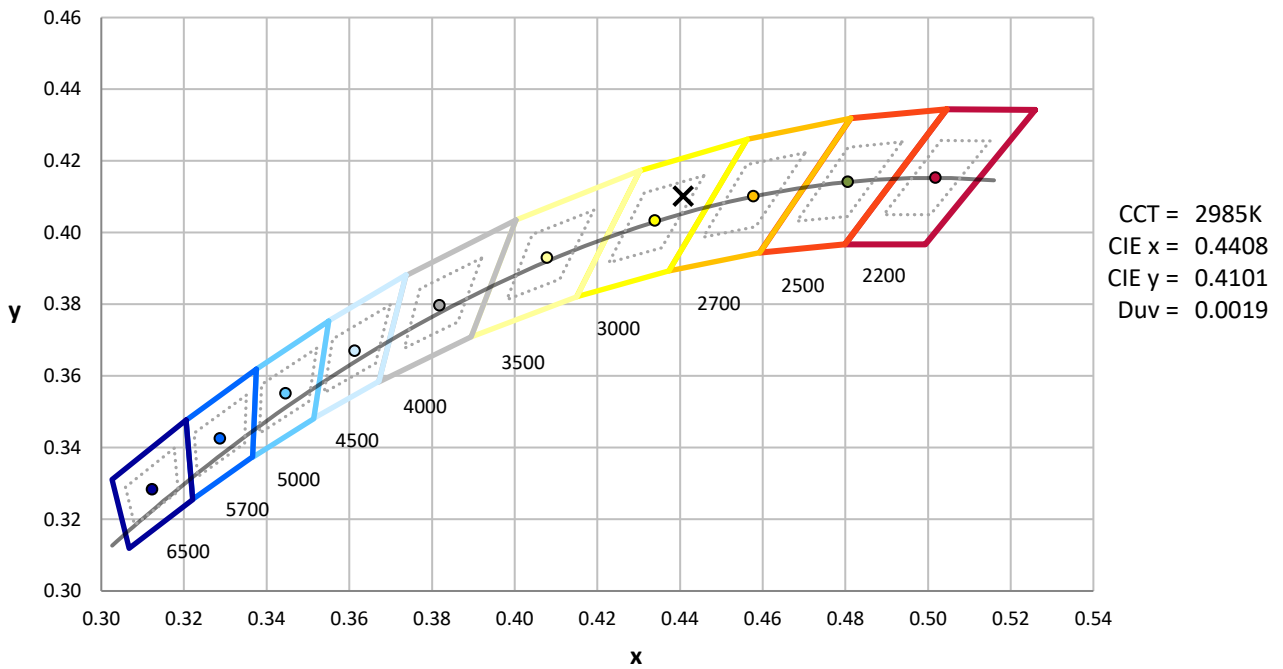
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



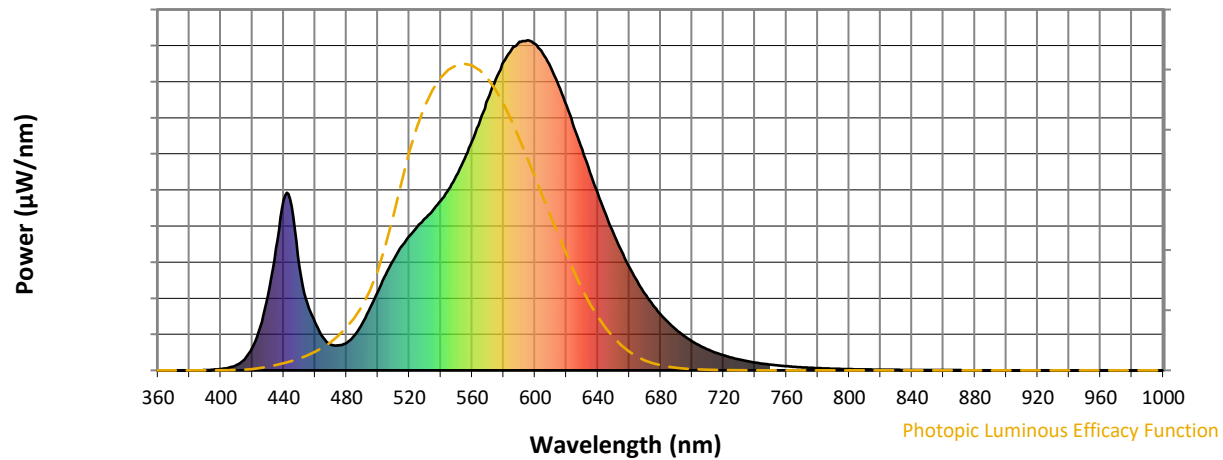
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

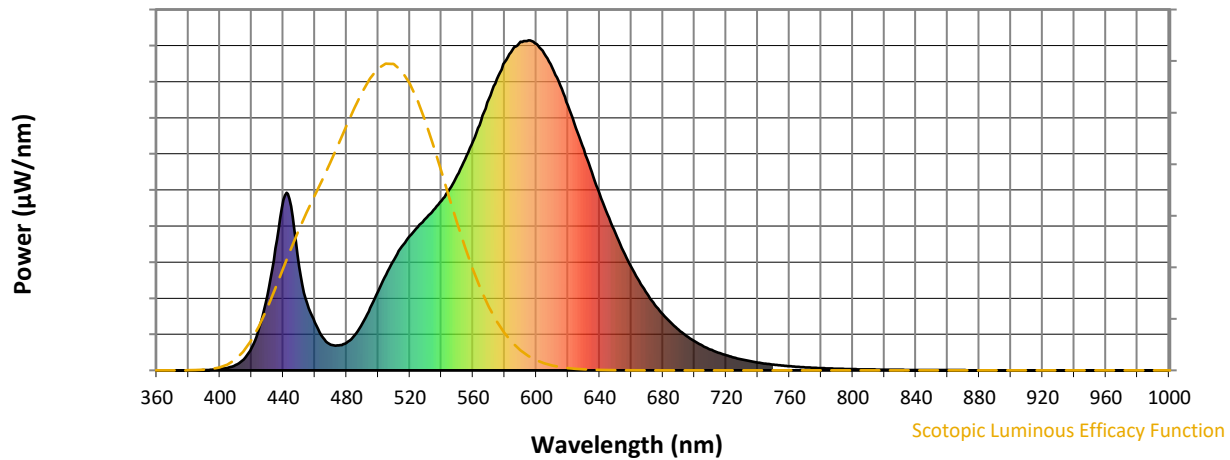


Photopic Lumens: NR

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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

Scotopic Flux vs. Wavelength



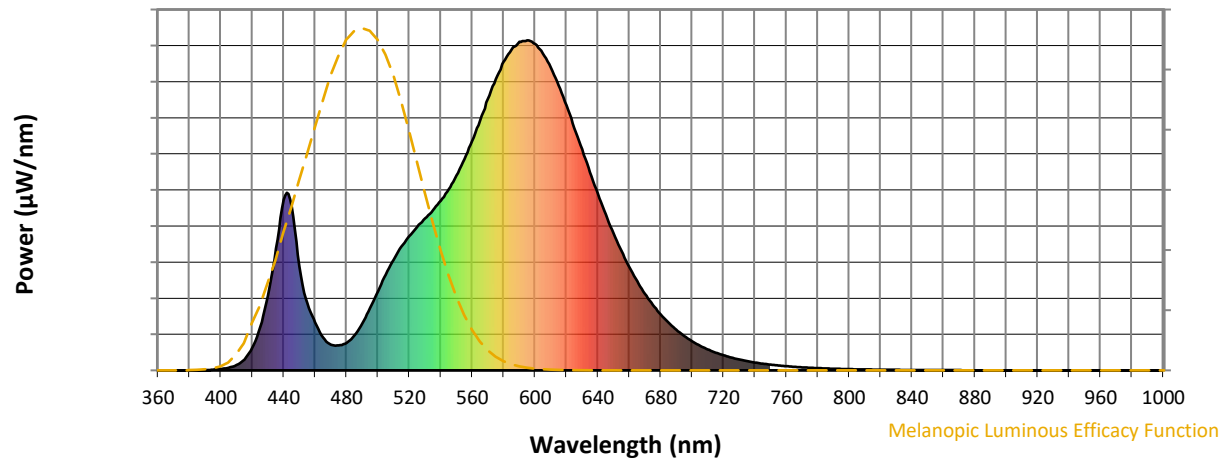
Scotopic Lumens: NR

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

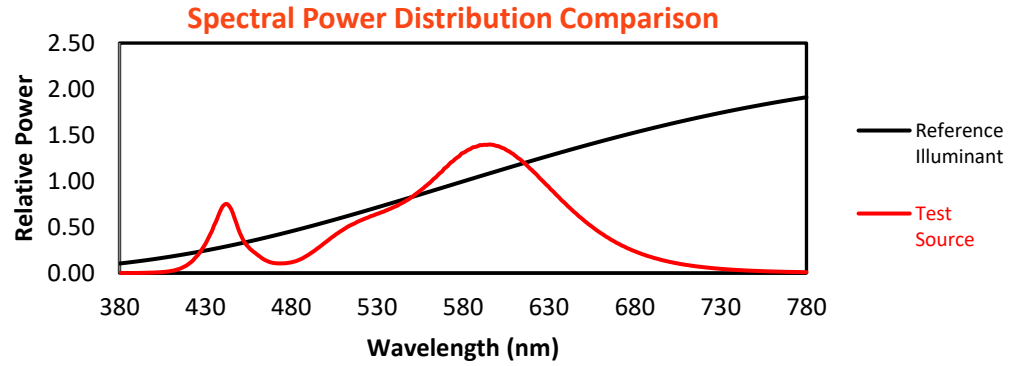
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803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

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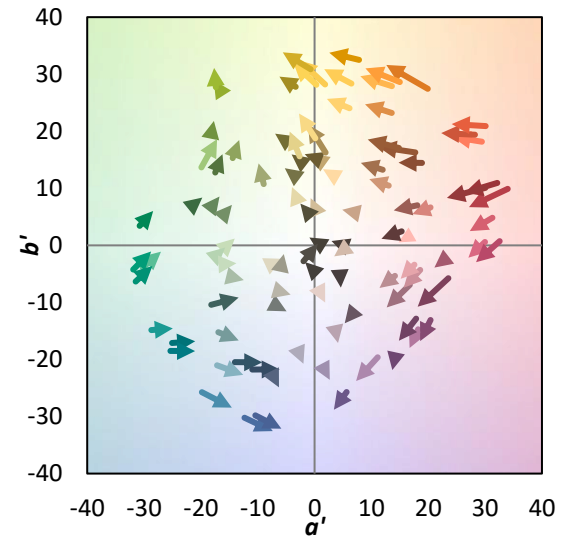
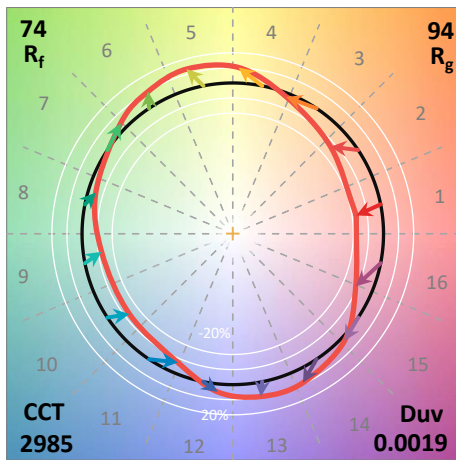
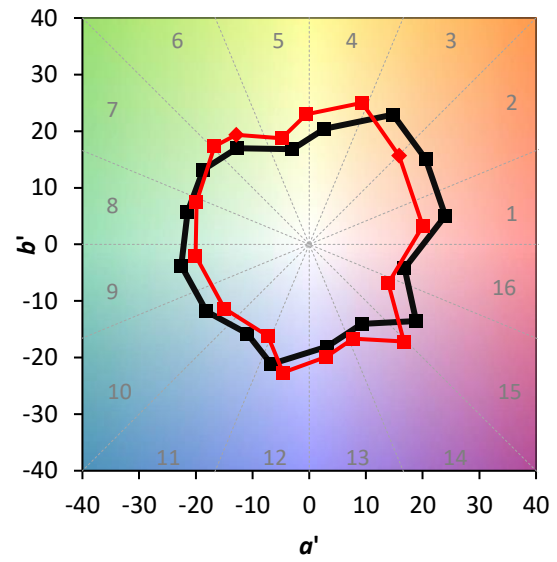
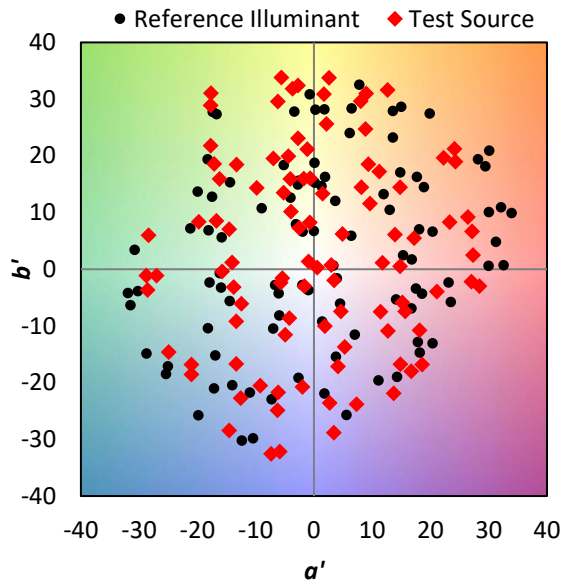
TM-30-18

Summary

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

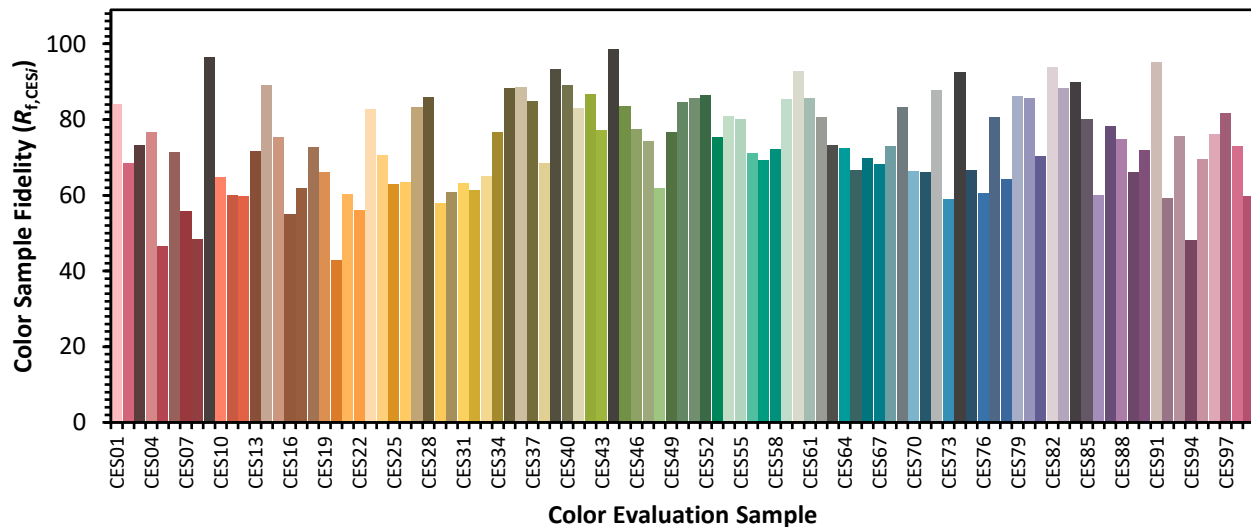


Color Vector Graphics

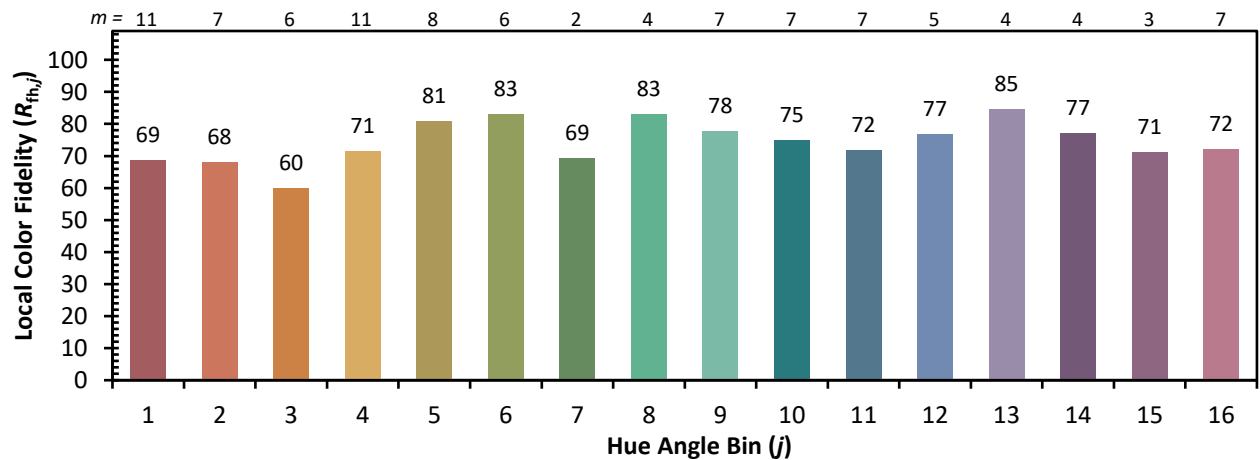
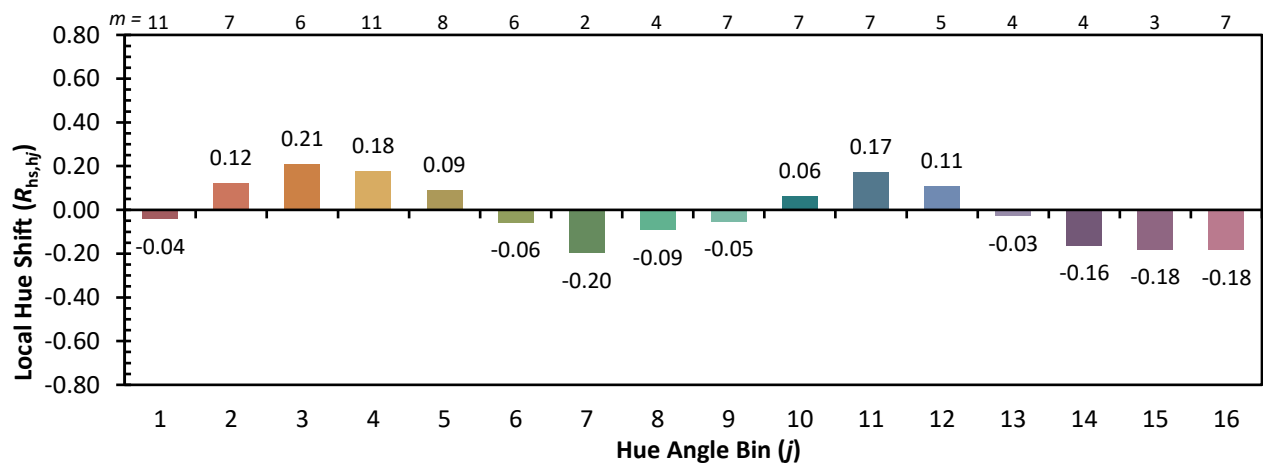
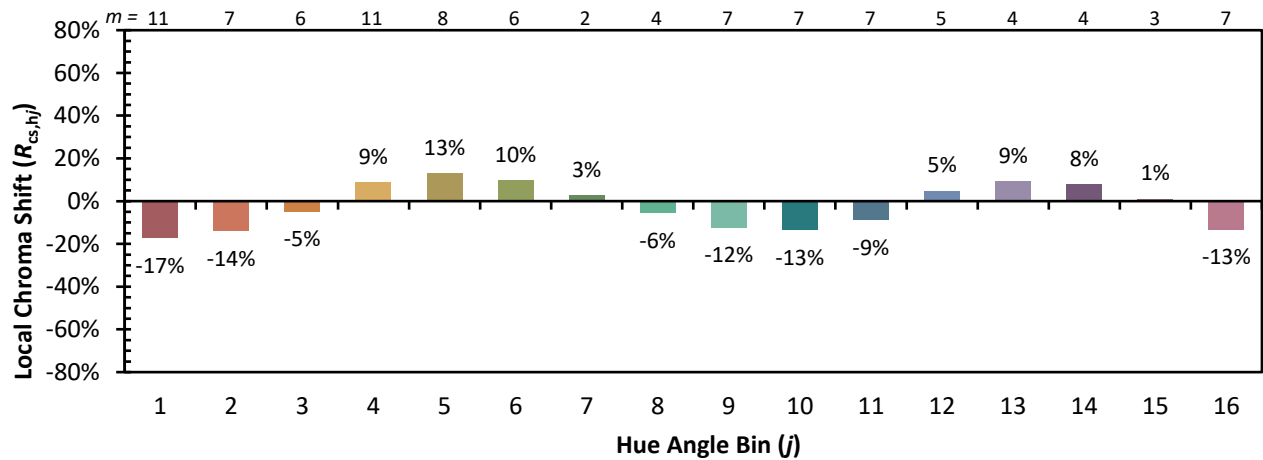


Individual Sample Fidelity Index ($R_{f,i}$)

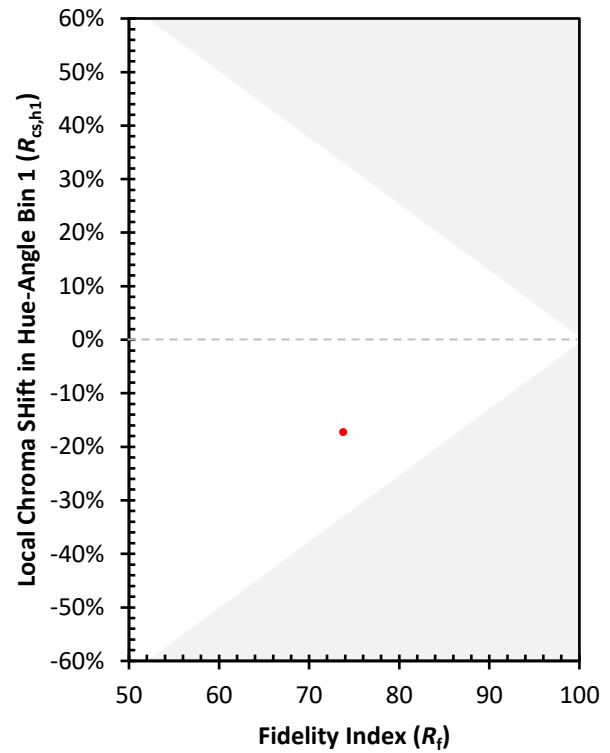
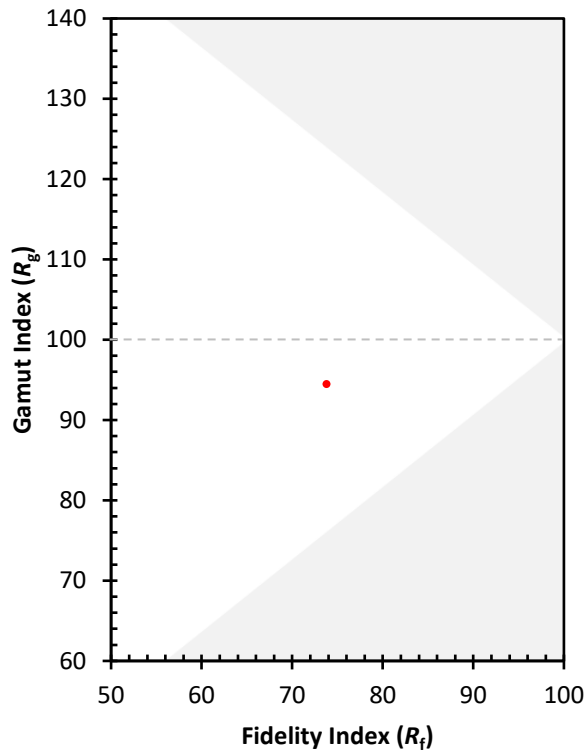
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82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