

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: P1049631

Luminaire Tested: **GALN-SA7C-735-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049631
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-735-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 7xLight Square PACKAGE
70CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (98) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34691.1 lumens
Efficiency: N/A
Efficacy: 105.1 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): 330
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

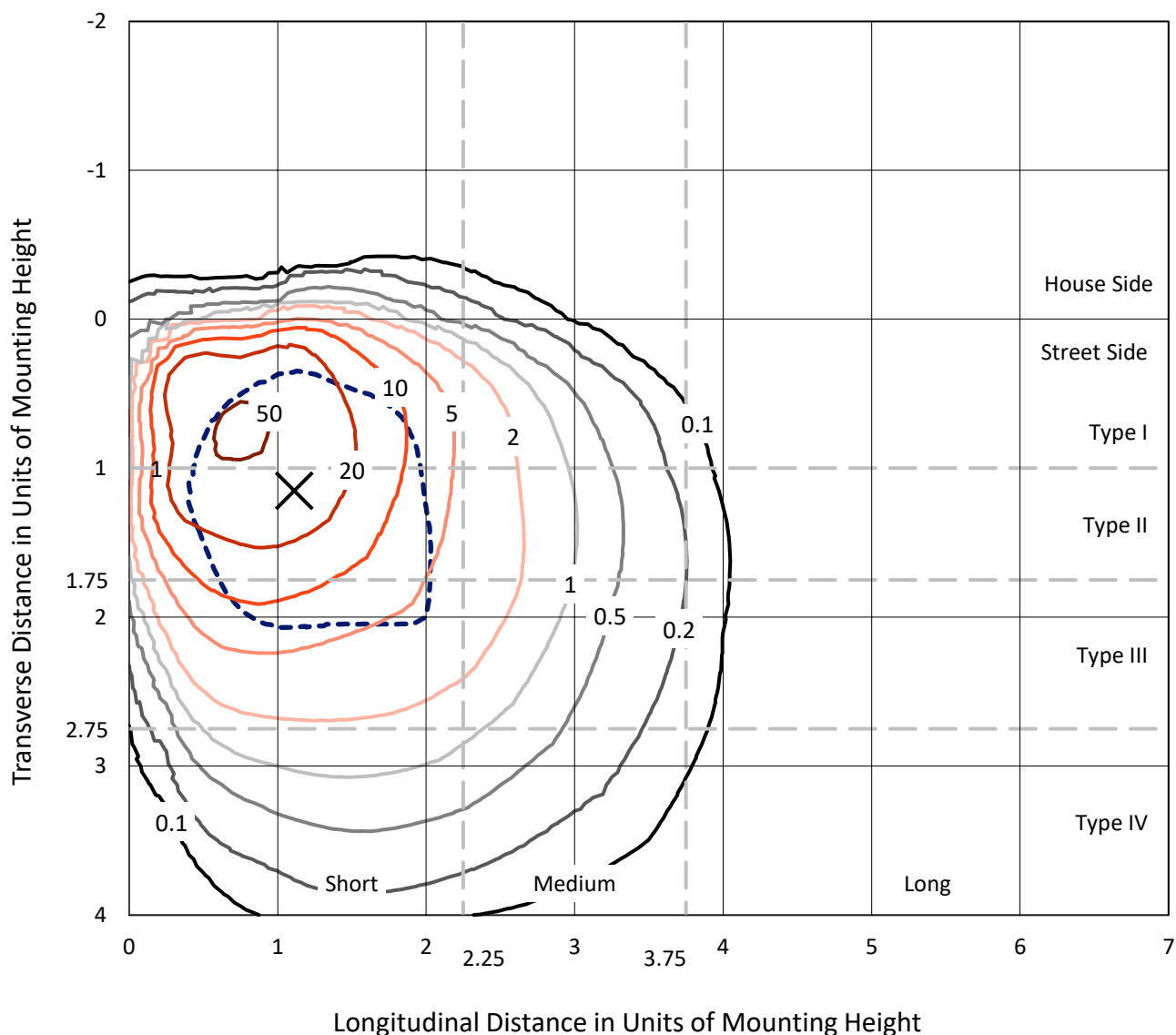
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

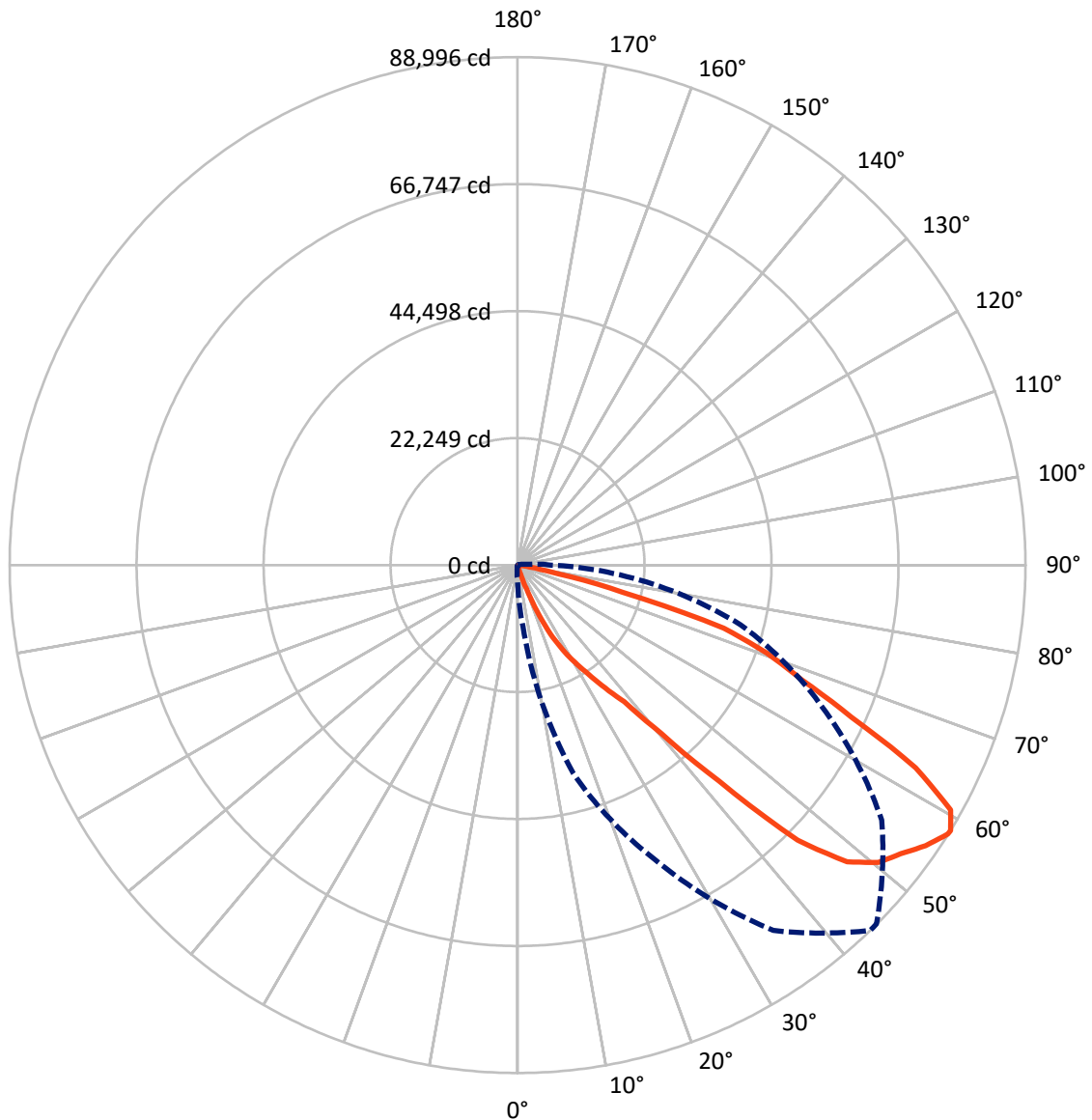
--- 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 60.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	236.9	0.0	236.9
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	34454.3	0.0	34454.3
	% Fixture	99.3	0.0	99.3
Total	Lumens	34691.1	0.0	34691.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.6	0.0
10°-20°	76.1	0.2
20°-30°	821.8	2.4
30°-40°	2430.5	7.0
40°-50°	7244.1	20.9
50°-60°	11494.6	33.1
60°-70°	9587.8	27.6
70°-80°	2957.0	8.5
80°-90°	65.7	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°	34691.1	100.0
0°-180°	34691.1	100.0



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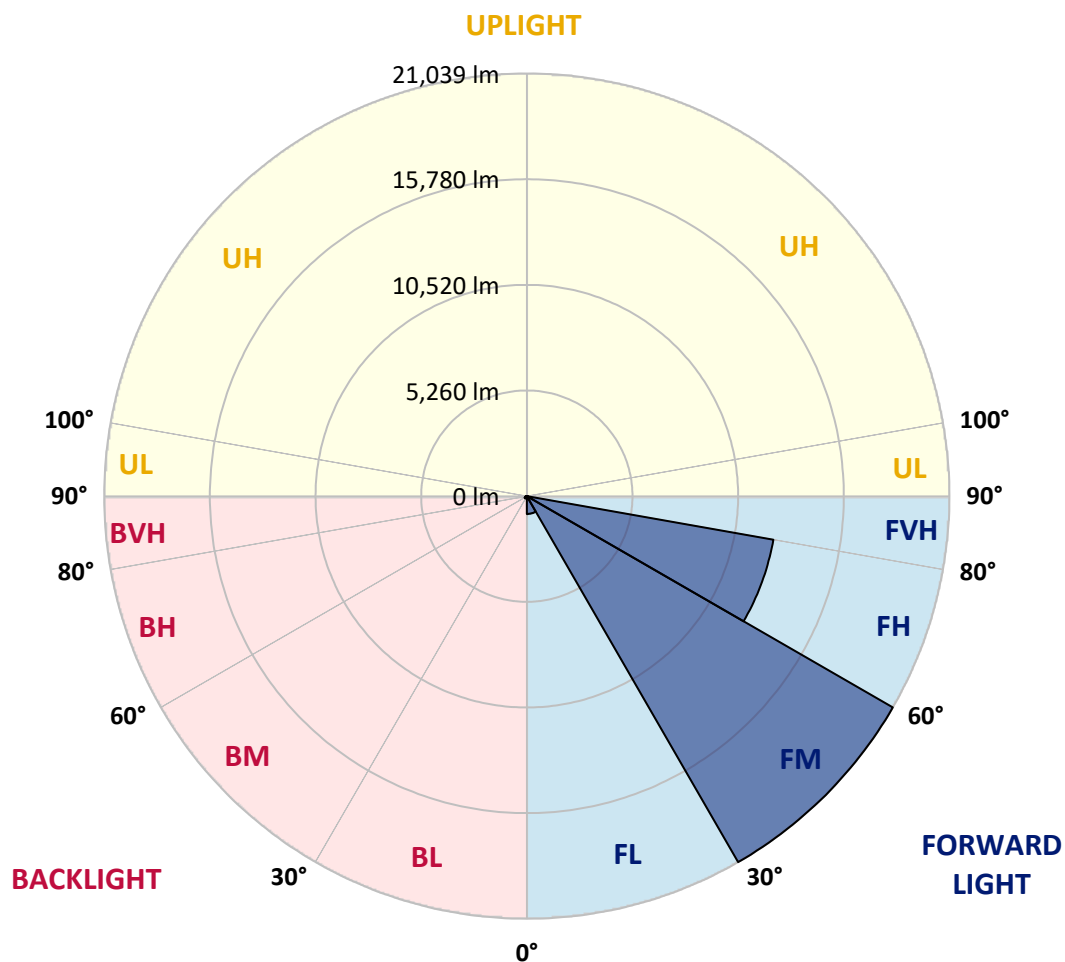
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	888.3	2.6			
FM	(30°-60°)	21039.5	60.6			
FH	(60°-80°)	12464.0	35.9			G5
FVH	(80°-90°)	62.5	0.2			G1/100
BL	(0°-30°)	23.2	0.1	B0/110		
BM	(30°-60°)	129.6	0.4	B0/220		
BH	(60°-80°)	80.9	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°	152.0	152.0	152.0	152.0	152.0	152.0	152.0	152.0	152.0	152.0
2.5°	196.5	196.5	188.7	178.2	167.7	157.2	154.6	149.4	146.8	144.1
5°	204.4	204.4	201.8	193.9	183.4	175.6	175.6	167.7	162.5	157.2
7.5°	209.6	212.3	217.5	214.9	209.6	201.8	201.8	196.5	188.7	175.6
10°	217.5	225.4	235.9	241.1	243.7	243.7	241.1	238.5	225.4	207.0
12.5°	225.4	241.1	267.3	293.5	309.2	330.2	327.6	322.3	288.3	249.0
15°	241.1	264.7	319.7	395.7	513.6	587.0	615.8	589.6	477.0	335.4
17.5°	259.4	298.8	463.8	828.1	1357.5	1609.1	1761.1	1637.9	1084.9	636.8
20°	277.8	364.3	862.2	2146.3	3522.1	4345.0	4573.0	4216.6	2707.1	1213.3
22.5°	309.2	511.0	1748.0	4436.7	7589.3	8823.6	9056.9	7916.9	5112.8	2395.2
25°	374.7	741.6	3013.7	7230.3	11326.3	13409.7	13312.8	11819.0	8294.3	3826.1
27.5°	469.1	1079.7	4557.3	10272.8	14906.1	16743.2	16963.3	15115.7	11056.4	5626.5
30°	605.4	1496.4	6213.5	12710.0	17775.7	19762.1	19798.8	17888.4	13527.6	7206.7
32.5°	736.4	1889.5	7662.7	15066.0	20603.3	22781.1	22943.5	20592.8	15372.6	8852.5
35°	836.0	2146.3	9130.2	17136.2	23454.6	26455.2	26444.7	23653.7	17558.2	10322.6
37.5°	843.8	2403.1	10458.9	19253.7	27065.8	30425.4	30758.2	27681.6	20199.7	12141.3
40°	825.5	2691.4	12141.3	22555.7	33572.8	38727.5	39021.1	35142.5	25498.6	15254.6
42.5°	846.5	3191.9	14872.0	28653.9	44377.6	51780.9	52346.9	48269.2	35239.5	21607.0
45°	956.5	4132.7	20592.8	38856.0	59779.0	68804.4	68615.7	62742.9	46573.7	31277.1
47.5°	1320.8	6436.2	29073.2	48785.5	69622.0	77659.5	77822.0	70644.1	53188.1	38711.8
50°	2031.0	9848.3	36198.6	54034.6	73854.4	81918.0	81766.0	73471.7	55701.3	42372.8
52.5°	2641.6	12316.9	39773.2	55876.9	74396.8	84022.4	84011.9	74216.0	56091.8	42687.3
55°	2793.6	12503.0	39802.0	55976.5	75612.8	86776.6	87122.6	76047.8	56597.6	41314.1
57.5°	2733.3	11069.5	38140.5	56553.0	77777.4	88907.2	88925.5	77822.0	57881.7	40472.9
58°	2680.9	10844.1	37805.1	56880.6	78149.6	88996.3	88951.8	77903.2	58927.3	40441.4
60°	2387.4	9415.9	36497.4	57716.6	77596.6	87167.1	86750.4	76129.1	58772.7	40119.1
62.5°	1876.4	7345.6	35210.7	56749.6	71668.8	78312.0	78485.0	67399.8	53578.6	38240.1
65°	1493.8	5474.5	32527.2	49778.7	59016.4	64310.0	64954.7	54807.7	44720.9	32380.4
67.5°	1189.8	3957.1	27285.9	39631.7	46699.5	53672.9	54142.0	46015.5	34647.2	24809.4
70°	967.0	2675.7	18834.4	28984.1	38517.9	46358.8	46387.6	38227.0	25860.3	16255.7
72.5°	856.9	1852.8	10933.2	21137.9	31232.6	37776.3	37013.7	31020.3	19874.8	9628.2
75°	741.6	1229.1	5361.8	12922.3	18936.6	19065.0	19355.9	14389.8	9934.8	4578.2
77.5°	610.6	872.7	2112.2	3530.0	5678.9	7269.6	7539.5	5713.0	3304.6	1126.9
80°	419.3	414.1	568.7	1082.3	1624.8	2036.2	1900.0	1470.2	864.8	432.4
82.5°	180.8	196.5	256.8	309.2	251.6	243.7	233.2	149.4	115.3	89.1
85°	57.7	52.4	55.0	55.0	44.6	34.1	34.1	15.7	0.0	0.0
87.5°	28.8	23.6	23.6	21.0	13.1	5.2	2.6	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°
152.0	0°	152.0	152.0	152.0	152.0	152.0	152.0	152.0	152.0	152.0	152.0
141.5	2.5°	138.9	138.9	133.7	128.4	125.8	120.5	117.9	115.3	112.7	110.1
152.0	5°	146.8	144.1	136.3	128.4	120.5	112.7	107.4	102.2	97.0	94.3
167.7	7.5°	159.9	154.6	138.9	125.8	115.3	104.8	99.6	91.7	86.5	78.6
186.1	10°	175.6	165.1	144.1	128.4	112.7	99.6	91.7	83.9	76.0	65.5
212.3	12.5°	196.5	178.2	152.0	125.8	107.4	91.7	83.9	73.4	65.5	57.7
246.3	15°	214.9	191.3	154.6	125.8	102.2	83.9	73.4	62.9	55.0	44.6
309.2	17.5°	241.1	201.8	152.0	117.9	94.3	73.4	62.9	55.0	41.9	26.2
458.6	20°	285.6	209.6	146.8	110.1	81.2	60.3	47.2	36.7	18.3	5.2
689.2	22.5°	356.4	230.6	141.5	99.6	70.8	47.2	31.4	13.1	0.0	0.0
1048.2	25°	492.7	267.3	141.5	94.3	62.9	34.1	10.5	0.0	0.0	0.0
1488.5	27.5°	655.2	317.1	141.5	81.2	49.8	18.3	0.0	0.0	0.0	0.0
2028.4	30°	820.3	372.1	141.5	70.8	39.3	2.6	0.0	0.0	0.0	0.0
2497.5	32.5°	977.5	419.3	144.1	60.3	26.2	0.0	0.0	0.0	0.0	0.0
3147.4	35°	1137.3	427.2	141.5	52.4	15.7	0.0	0.0	0.0	0.0	0.0
3944.0	37.5°	1341.8	411.4	133.7	47.2	7.9	0.0	0.0	0.0	0.0	0.0
5188.8	40°	1651.0	419.3	125.8	44.6	2.6	0.0	0.0	0.0	0.0	0.0
7408.5	42.5°	2222.3	453.4	115.3	44.6	0.0	0.0	0.0	0.0	0.0	0.0
11800.7	45°	3841.8	608.0	104.8	47.2	0.0	0.0	0.0	0.0	0.0	0.0
17715.4	47.5°	6355.0	1092.8	102.2	47.2	0.0	0.0	0.0	0.0	0.0	0.0
21339.7	50°	8110.8	1375.8	107.4	49.8	0.0	0.0	0.0	0.0	0.0	0.0
21793.1	52.5°	8097.7	1533.1	112.7	52.4	10.5	0.0	0.0	0.0	0.0	0.0
20087.1	55°	7198.8	1561.9	120.5	57.7	34.1	0.0	0.0	0.0	0.0	0.0
17262.0	57.5°	6016.9	1425.6	138.9	70.8	62.9	0.0	0.0	0.0	0.0	0.0
16819.1	58°	5807.3	1362.7	144.1	73.4	68.1	0.0	0.0	0.0	0.0	0.0
14589.0	60°	4759.0	1111.1	183.4	91.7	91.7	0.0	0.0	0.0	0.0	0.0
11960.5	62.5°	3286.3	969.6	209.6	117.9	94.3	0.0	0.0	0.0	0.0	0.0
8818.4	65°	2324.5	875.3	228.0	125.8	76.0	0.0	0.0	0.0	0.0	0.0
6265.9	67.5°	1737.5	807.2	251.6	128.4	39.3	0.0	0.0	0.0	0.0	0.0
3930.9	70°	1331.3	757.4	309.2	136.3	10.5	0.0	0.0	0.0	0.0	0.0
2342.8	72.5°	1084.9	699.7	374.7	141.5	0.0	0.0	0.0	0.0	0.0	0.0
1404.7	75°	898.9	631.6	361.6	154.6	0.0	0.0	0.0	0.0	0.0	0.0
749.5	77.5°	597.5	490.1	330.2	154.6	0.0	0.0	0.0	0.0	0.0	0.0
267.3	80°	209.6	193.9	256.8	136.3	0.0	0.0	0.0	0.0	0.0	0.0
55.0	82.5°	31.4	26.2	36.7	47.2	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°
152.0	0°	152.0	152.0	152.0	152.0	152.0	152.0	152.0	152.0	152.0	152.0
107.4	2.5°	107.4	107.4	104.8	107.4	107.4	112.7	125.8	144.1	165.1	173.0
91.7	5°	89.1	86.5	83.9	83.9	83.9	91.7	102.2	123.2	146.8	157.2
76.0	7.5°	73.4	70.8	68.1	65.5	65.5	70.8	83.9	107.4	131.0	141.5
62.9	10°	60.3	55.0	52.4	49.8	49.8	55.0	68.1	91.7	117.9	128.4
52.4	12.5°	49.8	41.9	36.7	34.1	31.4	39.3	52.4	73.4	102.2	115.3
39.3	15°	34.1	26.2	18.3	15.7	13.1	21.0	34.1	57.7	86.5	102.2
21.0	17.5°	18.3	7.9	2.6	0.0	0.0	5.2	15.7	41.9	70.8	83.9
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.0	52.4	65.5
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	31.4	44.6
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.1	23.6
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2
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	7.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.5	21.0
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°
152.0	0°	152.0	152.0	152.0	152.0	152.0	152.0	152.0	152.0	152.0	152.0
180.8	2.5°	186.1	183.4	178.2	173.0	173.0	173.0	180.8	188.7	196.5	196.5
162.5	5°	173.0	173.0	170.3	165.1	165.1	167.7	178.2	191.3	201.8	204.4
149.4	7.5°	159.9	165.1	159.9	157.2	159.9	162.5	173.0	188.7	204.4	209.6
138.9	10°	152.0	154.6	154.6	152.0	152.0	157.2	167.7	188.7	209.6	217.5
125.8	12.5°	141.5	146.8	144.1	144.1	144.1	149.4	162.5	186.1	214.9	225.4
112.7	15°	131.0	138.9	138.9	136.3	136.3	138.9	157.2	183.4	222.8	241.1
97.0	17.5°	120.5	128.4	131.0	125.8	125.8	131.0	149.4	183.4	228.0	259.4
78.6	20°	99.6	112.7	120.5	112.7	112.7	117.9	136.3	173.0	230.6	277.8
57.7	22.5°	78.6	91.7	102.2	99.6	99.6	102.2	125.8	165.1	233.2	309.2
34.1	25°	57.7	70.8	78.6	83.9	83.9	91.7	115.3	159.9	243.7	374.7
15.7	27.5°	34.1	49.8	60.3	65.5	68.1	78.6	107.4	154.6	262.1	469.1
0.0	30°	15.7	28.8	41.9	52.4	52.4	70.8	99.6	149.4	285.6	605.4
0.0	32.5°	0.0	13.1	21.0	36.7	39.3	57.7	91.7	144.1	319.7	736.4
0.0	35°	0.0	0.0	10.5	28.8	28.8	47.2	83.9	138.9	372.1	836.0
0.0	37.5°	0.0	0.0	0.0	21.0	23.6	41.9	81.2	136.3	382.6	843.8
0.0	40°	0.0	0.0	0.0	15.7	18.3	39.3	81.2	138.9	345.9	825.5
0.0	42.5°	0.0	0.0	0.0	10.5	13.1	39.3	81.2	144.1	311.9	846.5
0.0	45°	0.0	0.0	0.0	7.9	10.5	41.9	78.6	141.5	293.5	956.5
0.0	47.5°	0.0	0.0	0.0	10.5	15.7	41.9	76.0	138.9	296.1	1320.8
0.0	50°	0.0	0.0	0.0	13.1	18.3	41.9	78.6	133.7	325.0	2031.0
0.0	52.5°	0.0	0.0	0.0	10.5	15.7	47.2	86.5	131.0	353.8	2641.6
0.0	55°	0.0	0.0	0.0	2.6	7.9	60.3	94.3	131.0	398.3	2793.6
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	68.1	107.4	138.9	471.7	2733.3
0.0	58°	0.0	0.0	0.0	0.0	0.0	68.1	110.1	138.9	477.0	2680.9
0.0	60°	0.0	0.0	0.0	0.0	0.0	68.1	120.5	154.6	513.6	2387.4
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	57.7	144.1	193.9	534.6	1876.4
0.0	65°	0.0	0.0	0.0	0.0	0.0	47.2	170.3	212.3	550.3	1493.8
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	44.6	175.6	214.9	558.2	1189.8
0.0	70°	0.0	0.0	0.0	0.0	0.0	47.2	173.0	230.6	584.4	967.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	52.4	157.2	254.2	584.4	856.9
0.0	75°	0.0	0.0	0.0	0.0	0.0	55.0	146.8	285.6	532.0	741.6
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	52.4	144.1	332.8	474.3	610.6
0.0	80°	5.2	7.9	7.9	5.2	5.2	44.6	141.5	338.1	403.6	419.3
2.6	82.5°	15.7	21.0	18.3	13.1	13.1	39.3	125.8	283.0	209.6	180.8
15.7	85°	28.8	34.1	34.1	28.8	28.8	36.7	78.6	102.2	70.8	57.7
28.8	87.5°	39.3	44.6	44.6	39.3	39.3	36.7	34.1	31.4	28.8	28.8
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: SP1-2407-184-5

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-735-U-5WQ

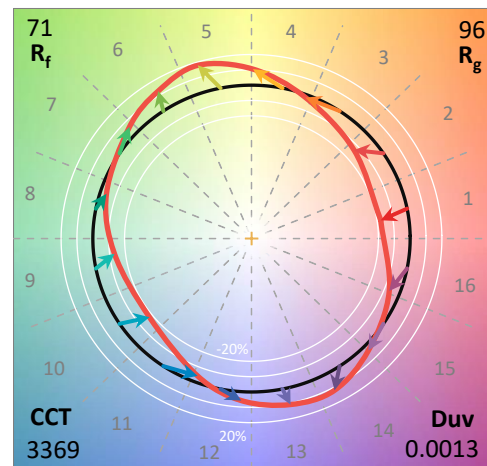
Data in this report applies to families of products including GSS-SB1A-735-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-5
 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-735-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K):	3369	CRI (Ra):	70.1		
CIE u':	0.2386	R1:	66.6	R9:	-40.2
CIE v':	0.5156	R2:	77.6	R10:	49.1
Duv:	0.0013	R3:	88.5	R11:	66.3
CIE x:	0.4143	R4:	69.5	R12:	45.7
CIE y:	0.3980	R5:	66.4	R13:	68.0
CIE z:	0.1877	R6:	69.6	R14:	93.4
Peak Wavelength (nm):	590	R7:	77.5	R15:	57.6
Dominant Wavelength (nm):	580	R8:	44.9		
Purity:	43.80166				
Rf:	71.4				
Rg:	96				



Test Conditions

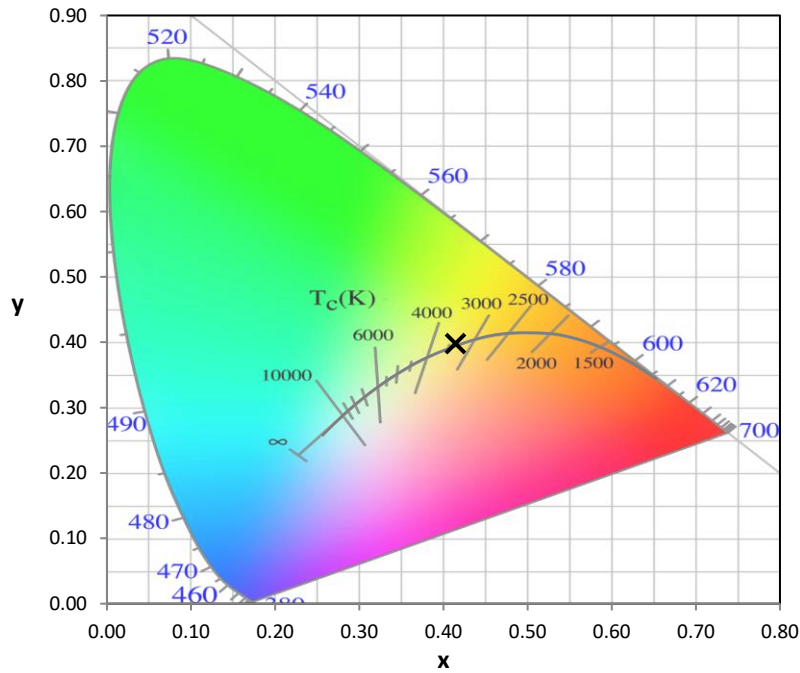
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

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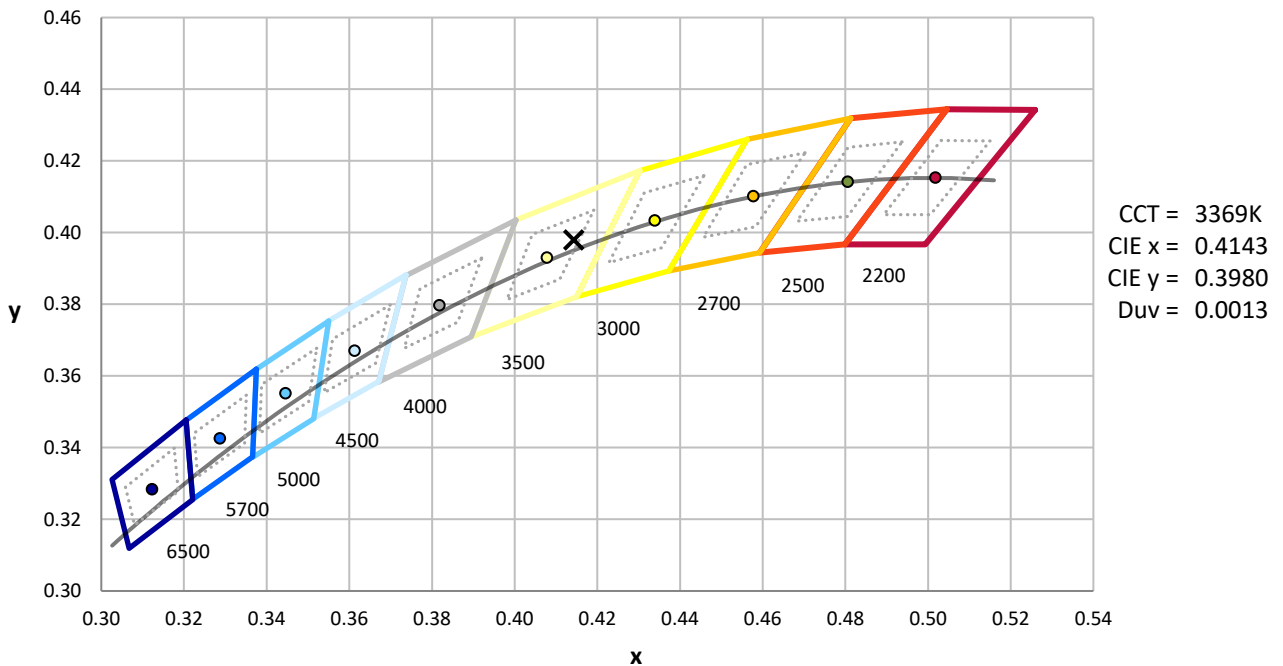
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram

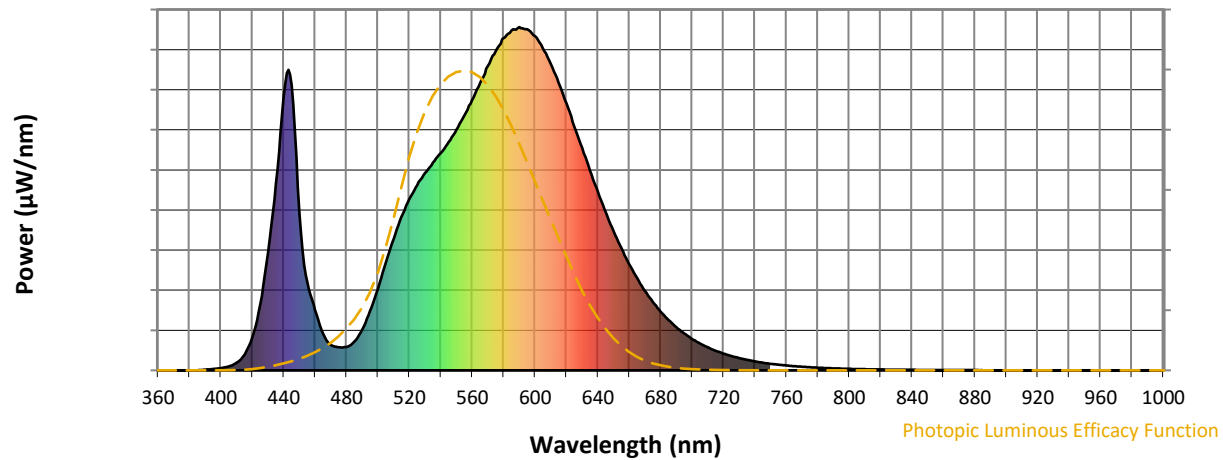


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



REPORT NUMBER: SP1-2407-184-5

Photopic Flux vs. Wavelength

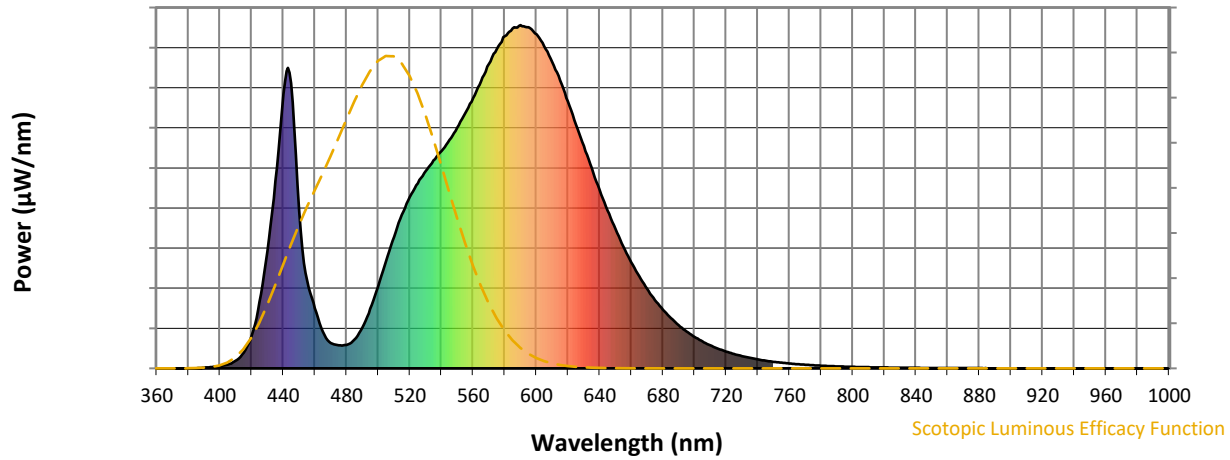


Photopic Lumens: NR

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

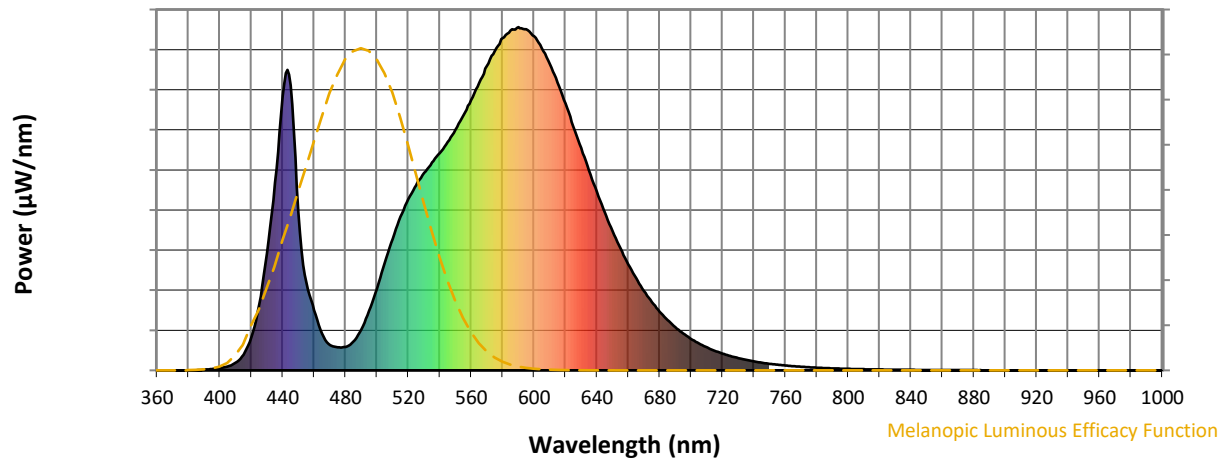
Scotopic Flux vs. Wavelength


Scotopic Lumens: NR
S/P: 1.29

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.36

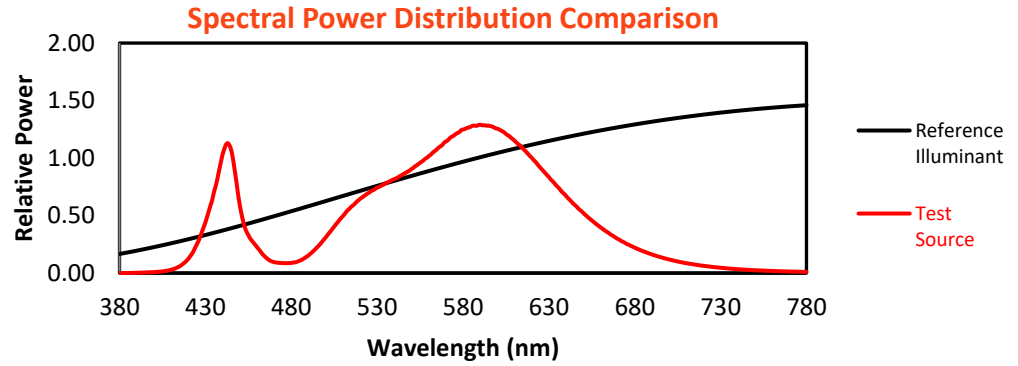
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

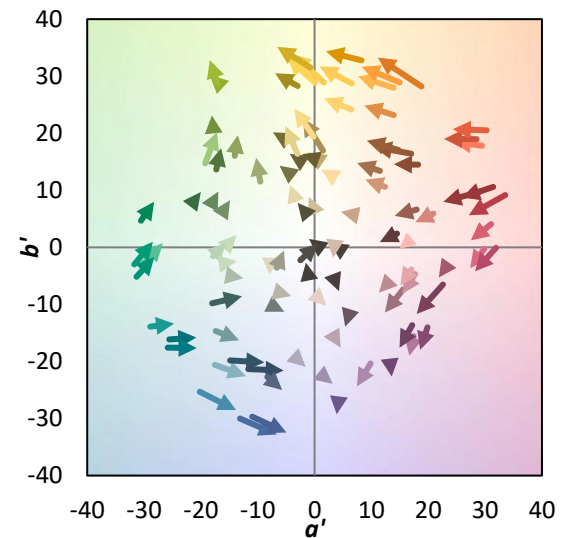
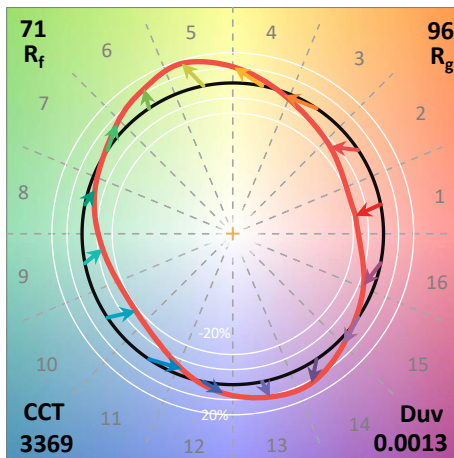
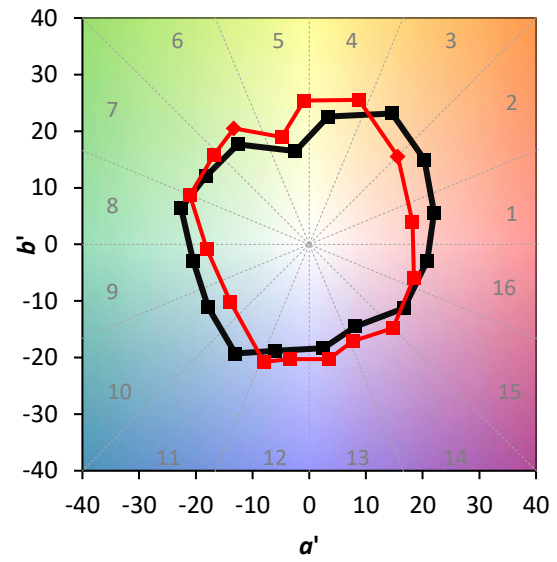
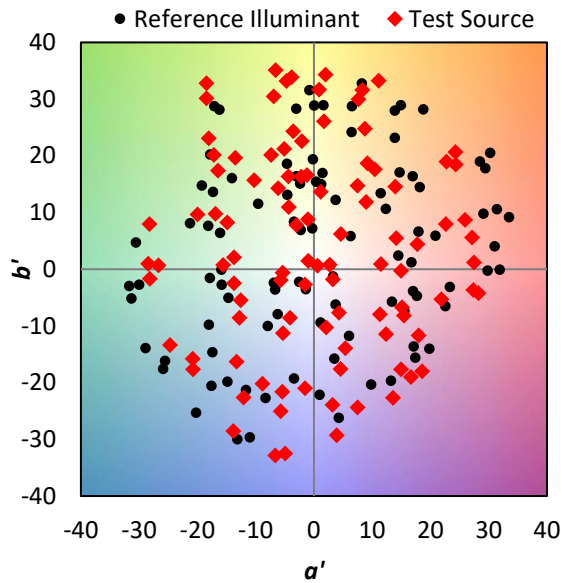
TM-30-18

Summary

$R_f = 71.4$
 $R_g = 96$
 CIE $R_a = 70.1$
 $R_g = -40.2$

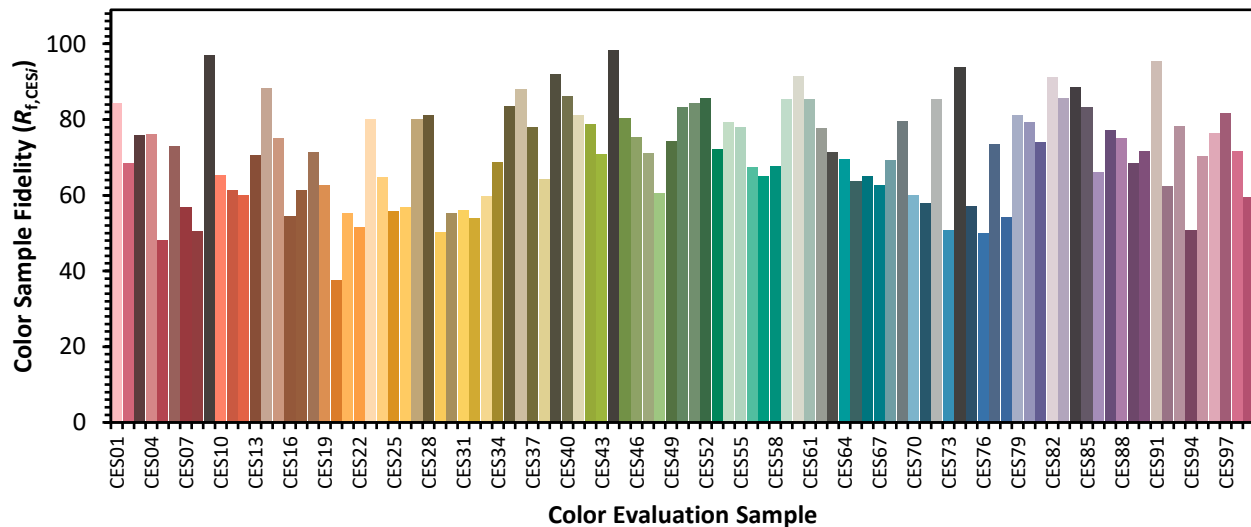


Color Vector Graphics

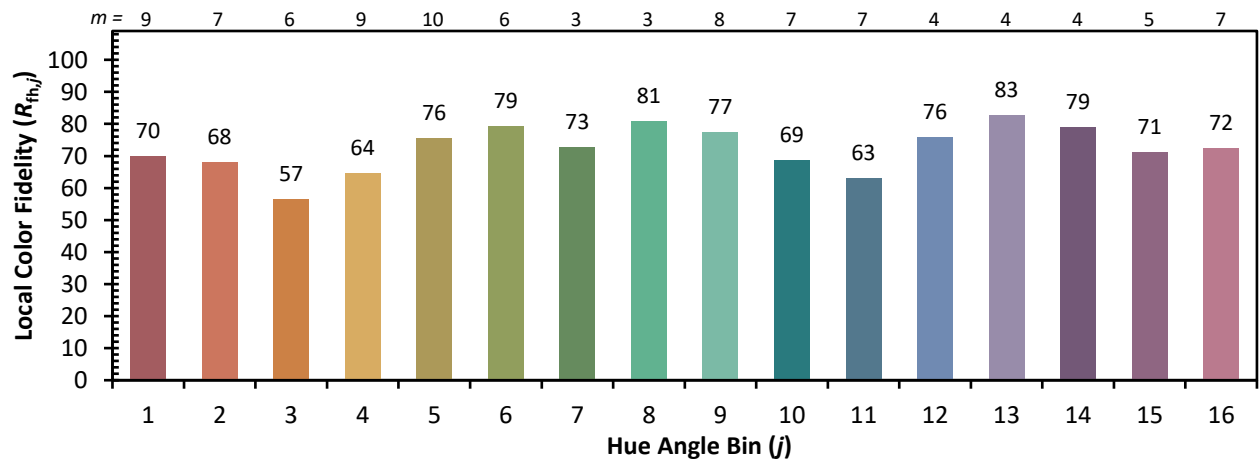
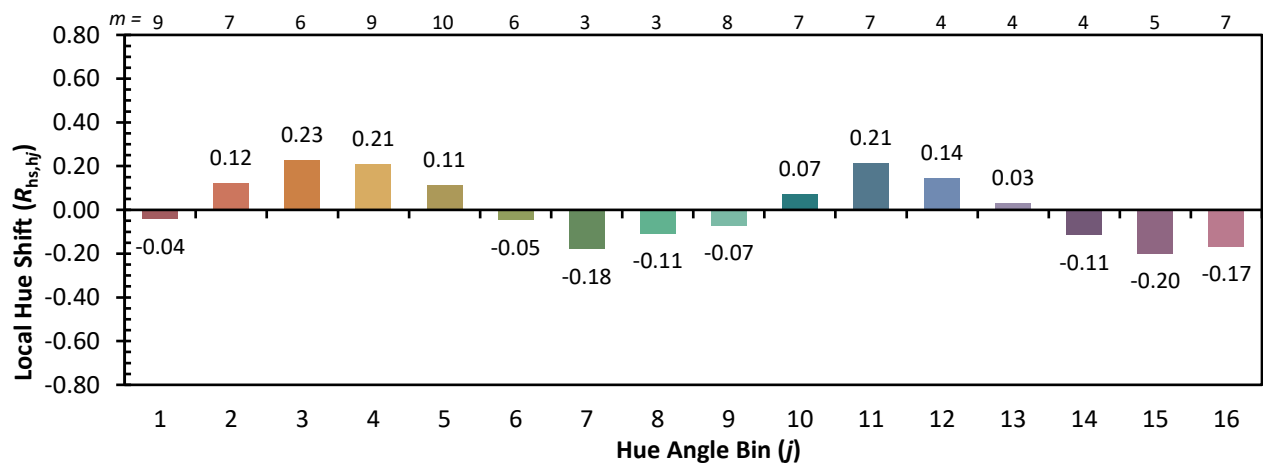
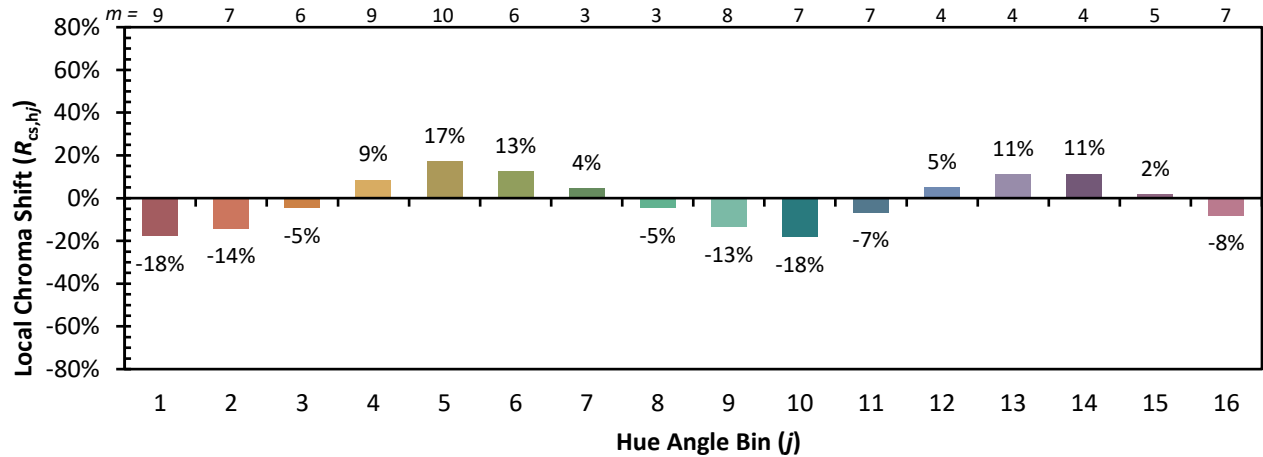


Individual Sample Fidelity Index ($R_{f,i}$)

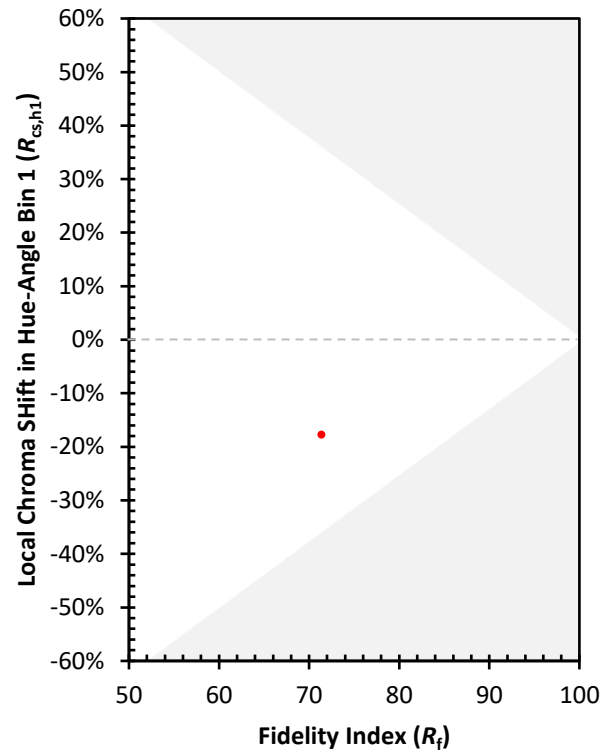
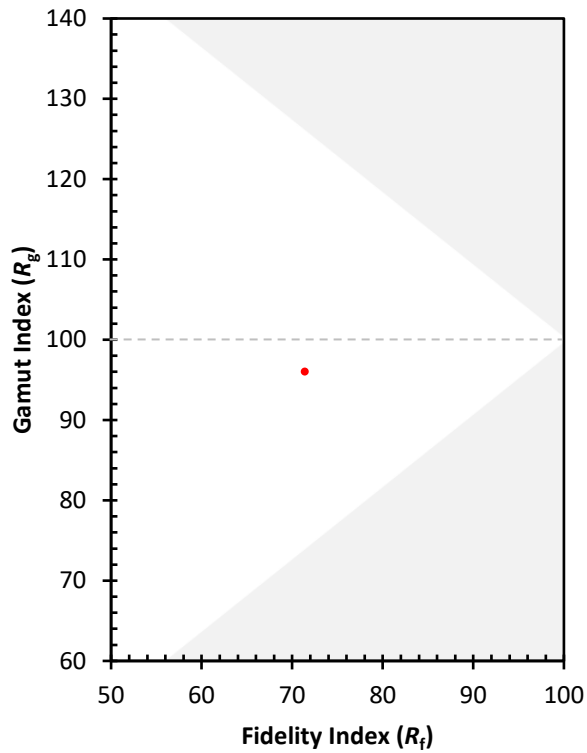
CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82 = 91
CES08 = 39	CES33 = 60	CES58 = 68	CES83 = 86
CES09 = 29	CES34 = 69	CES59 = 85	CES84 = 89
CES10 = 75	CES35 = 83	CES60 = 91	CES85 = 83
CES11 = 58	CES36 = 88	CES61 = 85	CES86 = 66
CES12 = 64	CES37 = 78	CES62 = 78	CES87 = 77
CES13 = 43	CES38 = 64	CES63 = 71	CES88 = 75
CES14 = 74	CES39 = 92	CES64 = 70	CES89 = 68
CES15 = 71	CES40 = 86	CES65 = 64	CES90 = 72
CES16 = 47	CES41 = 81	CES66 = 65	CES91 = 95
CES17 = 50	CES42 = 79	CES67 = 63	CES92 = 62
CES18 = 56	CES43 = 71	CES68 = 69	CES93 = 78
CES19 = 72	CES44 = 98	CES69 = 80	CES94 = 51
CES20 = 65	CES45 = 80	CES70 = 60	CES95 = 70
CES21 = 87	CES46 = 75	CES71 = 58	CES96 = 76
CES22 = 79	CES47 = 71	CES72 = 85	CES97 = 82
CES23 = 92	CES48 = 61	CES73 = 51	CES98 = 72
CES24 = 91	CES49 = 74	CES74 = 94	CES99 = 60
CES25 = 72	CES50 = 83	CES75 = 57	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)