

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: P1049907

Luminaire Tested: **GALN-SA4C-927-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049907
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-927-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 4xLight Square PACKAGE
90CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12816.9 lumens
Efficiency: N/A
Efficacy: 67.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

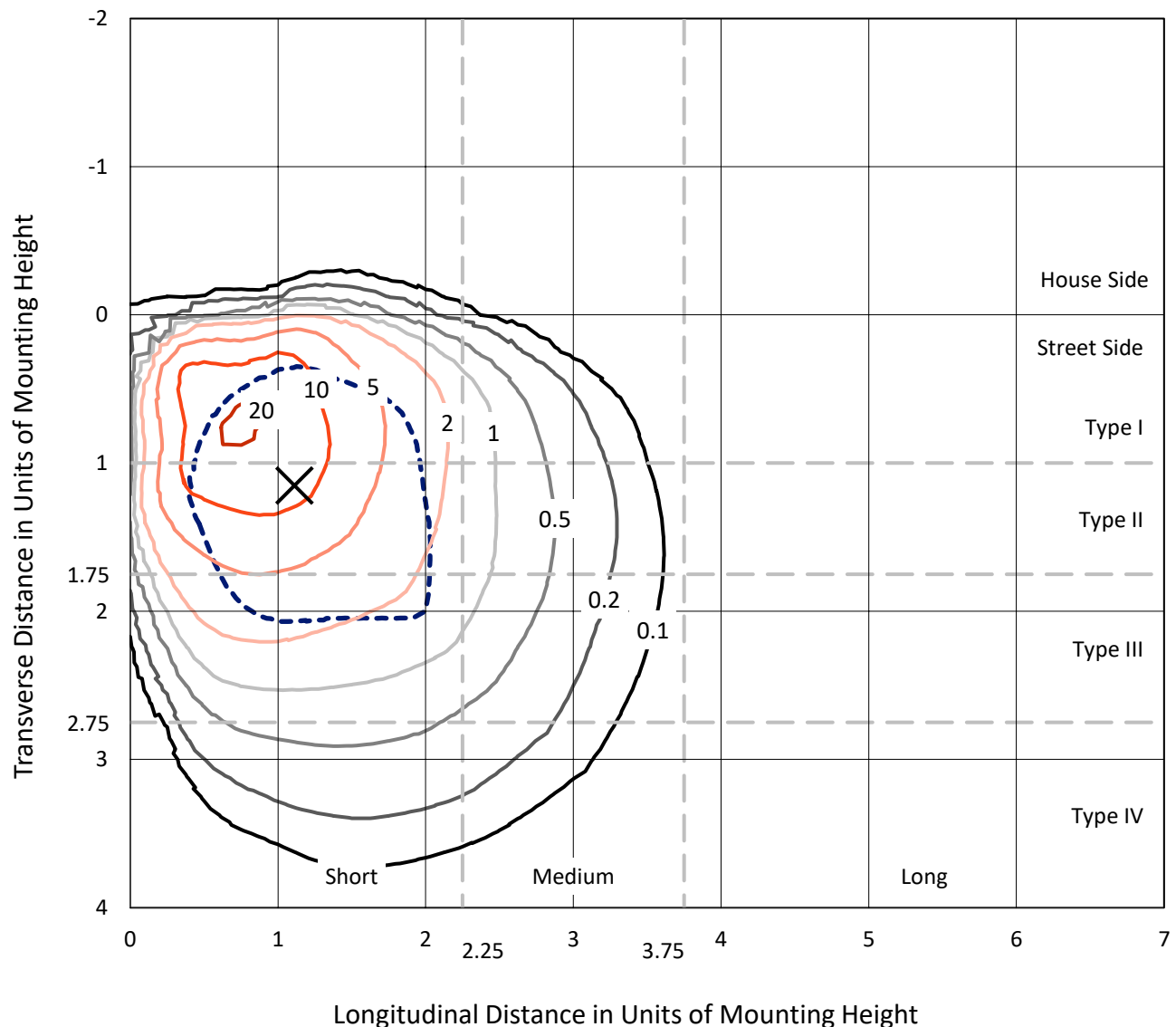
Input Watts (W): 190.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

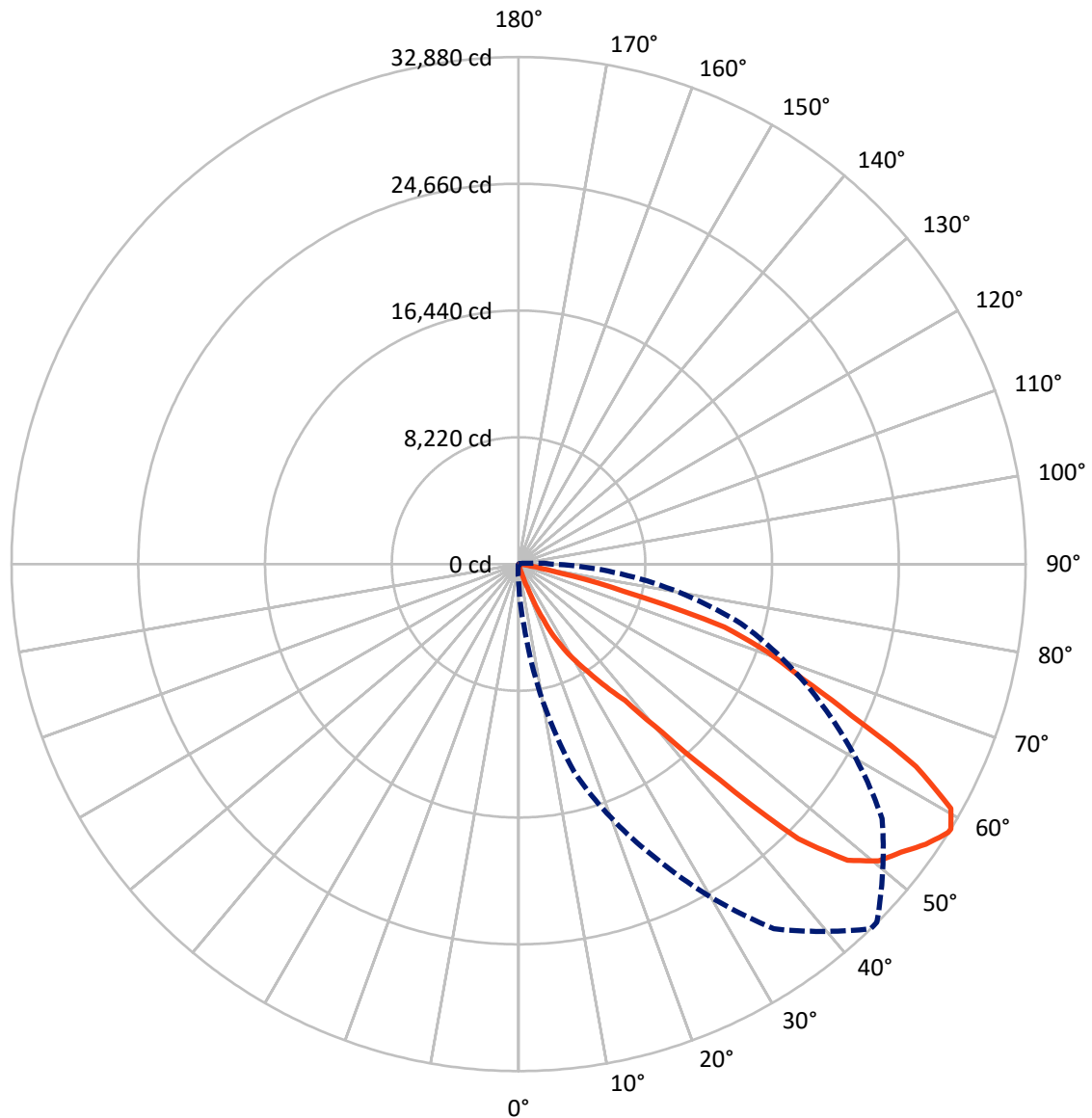
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 22.3 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	87.5	0.0	87.5
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	12729.4	0.0	12729.4
	% Fixture	99.3	0.0	99.3
Total	Lumens	12816.9	0.0	12816.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.0	0.0
10°-20°	28.1	0.2
20°-30°	303.6	2.4
30°-40°	898.0	7.0
40°-50°	2676.4	20.9
50°-60°	4246.8	33.1
60°-70°	3542.3	27.6
70°-80°	1092.5	8.5
80°-90°	24.3	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°	12816.9	100.0
0°-180°	12816.9	100.0



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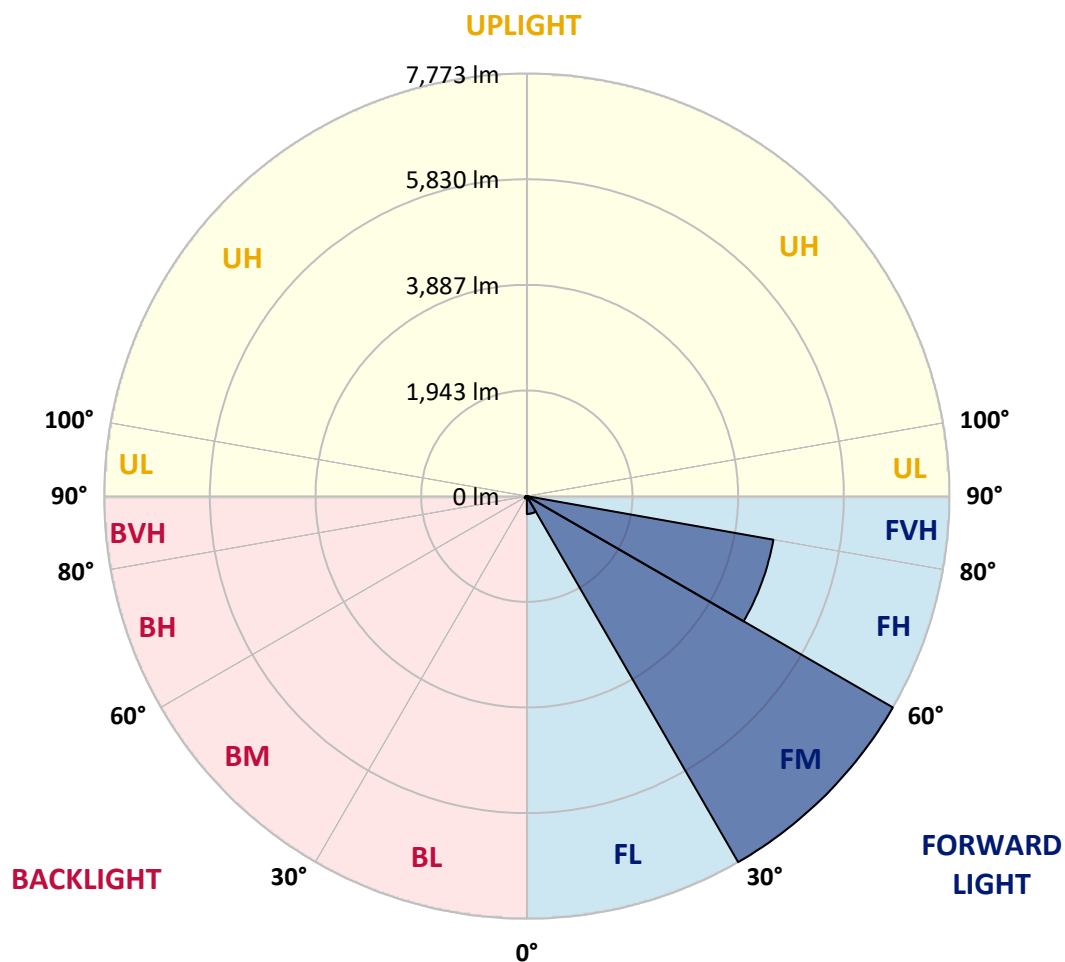
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	328.2	2.6			
FM	(30°-60°)	7773.2	60.6			
FH	(60°-80°)	4604.9	35.9			G2/5000
FVH	(80°-90°)	23.1	0.2			G1/100
BL	(0°-30°)	8.6	0.1	B0/110		
BM	(30°-60°)	47.9	0.4	B0/220		
BH	(60°-80°)	29.9	0.2	B0/110		G0/110
BVH	(80°-90°)	1.2	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
2.5°	72.6	72.6	69.7	65.8	62.0	58.1	57.1	55.2	54.2	53.3
5°	75.5	75.5	74.6	71.6	67.8	64.9	64.9	62.0	60.0	58.1
7.5°	77.5	78.4	80.4	79.4	77.5	74.6	74.6	72.6	69.7	64.9
10°	80.4	83.3	87.1	89.1	90.0	90.0	89.1	88.1	83.3	76.5
12.5°	83.3	89.1	98.8	108.4	114.2	122.0	121.0	119.1	106.5	92.0
15°	89.1	97.8	118.1	146.2	189.8	216.9	227.5	217.8	176.2	123.9
17.5°	95.9	110.4	171.4	306.0	501.5	594.5	650.6	605.1	400.8	235.3
20°	102.6	134.6	318.5	793.0	1301.3	1605.3	1689.5	1557.8	1000.2	448.3
22.5°	114.2	188.8	645.8	1639.2	2803.9	3260.0	3346.1	2925.0	1889.0	884.9
25°	138.5	274.0	1113.4	2671.3	4184.6	4954.3	4918.5	4366.6	3064.4	1413.6
27.5°	173.3	398.9	1683.7	3795.4	5507.2	6185.9	6267.2	5584.6	4084.9	2078.7
30°	223.7	552.8	2295.6	4695.8	6567.4	7301.3	7314.8	6609.0	4997.9	2662.6
32.5°	272.1	698.1	2831.0	5566.2	7612.1	8416.6	8476.7	7608.2	5679.5	3270.6
35°	308.9	793.0	3373.2	6331.1	8665.5	9774.1	9770.2	8739.1	6487.0	3813.8
37.5°	311.8	887.8	3864.1	7113.4	9999.7	11240.9	11363.9	10227.2	7463.0	4485.7
40°	305.0	994.4	4485.7	8333.4	12403.7	14308.2	14416.6	12983.7	9420.7	5635.9
42.5°	312.7	1179.3	5494.6	10586.4	16395.7	19130.8	19340.0	17833.4	13019.5	7982.9
45°	353.4	1526.9	7608.2	14355.6	22085.8	25420.3	25350.6	23180.9	17207.0	11555.6
47.5°	488.0	2377.9	10741.3	18024.2	25722.4	28691.9	28751.9	26100.0	19650.8	14302.4
50°	750.4	3638.5	13373.9	19963.5	27286.1	30265.2	30209.1	27144.7	20579.3	15655.0
52.5°	976.0	4550.6	14694.5	20644.2	27486.5	31042.7	31038.8	27419.7	20723.5	15771.2
55°	1032.1	4619.3	14705.2	20680.9	27935.7	32060.3	32188.1	28096.5	20910.4	15263.8
57.5°	1009.8	4089.7	14091.3	20893.9	28735.5	32847.5	32854.2	28751.9	21384.8	14953.0
58°	990.5	4006.4	13967.4	21015.0	28873.0	32880.4	32863.9	28781.9	21771.1	14941.4
60°	882.0	3478.8	13484.2	21323.8	28668.7	32204.6	32050.6	28126.5	21714.0	14822.3
62.5°	693.2	2713.9	13008.9	20966.6	26478.6	28933.0	28996.9	24901.4	19795.0	14128.1
65°	551.9	2022.6	12017.4	18391.1	21804.1	23759.8	23998.0	20249.1	16522.5	11963.2
67.5°	439.6	1462.0	10081.0	14642.2	17253.5	19829.9	20003.2	17000.8	12800.7	9166.0
70°	357.3	988.5	6958.5	10708.4	14230.7	17127.6	17138.3	14123.3	9554.3	6005.8
72.5°	316.6	684.5	4039.4	7809.6	11539.1	13956.7	13675.0	11460.7	7342.9	3557.2
75°	274.0	454.1	1981.0	4774.2	6996.3	7043.7	7151.2	5316.4	3670.5	1691.5
77.5°	225.6	322.4	780.4	1304.2	2098.1	2685.8	2785.5	2110.7	1220.9	416.3
80°	154.9	153.0	210.1	399.9	600.3	752.3	702.0	543.2	319.5	159.8
82.5°	66.8	72.6	94.9	114.2	92.9	90.0	86.2	55.2	42.6	32.9
85°	21.3	19.4	20.3	20.3	16.5	12.6	12.6	5.8	0.0	0.0
87.5°	10.7	8.7	8.7	7.7	4.8	1.9	1.0	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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
56.2	0°	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
52.3	2.5°	51.3	51.3	49.4	47.4	46.5	44.5	43.6	42.6	41.6	40.7
56.2	5°	54.2	53.3	50.3	47.4	44.5	41.6	39.7	37.8	35.8	34.9
62.0	7.5°	59.1	57.1	51.3	46.5	42.6	38.7	36.8	33.9	32.0	29.0
68.7	10°	64.9	61.0	53.3	47.4	41.6	36.8	33.9	31.0	28.1	24.2
78.4	12.5°	72.6	65.8	56.2	46.5	39.7	33.9	31.0	27.1	24.2	21.3
91.0	15°	79.4	70.7	57.1	46.5	37.8	31.0	27.1	23.2	20.3	16.5
114.2	17.5°	89.1	74.6	56.2	43.6	34.9	27.1	23.2	20.3	15.5	9.7
169.4	20°	105.5	77.5	54.2	40.7	30.0	22.3	17.4	13.6	6.8	1.9
254.6	22.5°	131.7	85.2	52.3	36.8	26.1	17.4	11.6	4.8	0.0	0.0
387.3	25°	182.0	98.8	52.3	34.9	23.2	12.6	3.9	0.0	0.0	0.0
549.9	27.5°	242.1	117.2	52.3	30.0	18.4	6.8	0.0	0.0	0.0	0.0
749.4	30°	303.0	137.5	52.3	26.1	14.5	1.0	0.0	0.0	0.0	0.0
922.7	32.5°	361.1	154.9	53.3	22.3	9.7	0.0	0.0	0.0	0.0	0.0
1162.8	35°	420.2	157.8	52.3	19.4	5.8	0.0	0.0	0.0	0.0	0.0
1457.2	37.5°	495.7	152.0	49.4	17.4	2.9	0.0	0.0	0.0	0.0	0.0
1917.1	40°	610.0	154.9	46.5	16.5	1.0	0.0	0.0	0.0	0.0	0.0
2737.1	42.5°	821.0	167.5	42.6	16.5	0.0	0.0	0.0	0.0	0.0	0.0
4359.8	45°	1419.4	224.6	38.7	17.4	0.0	0.0	0.0	0.0	0.0	0.0
6545.1	47.5°	2347.9	403.7	37.8	17.4	0.0	0.0	0.0	0.0	0.0	0.0
7884.1	50°	2996.6	508.3	39.7	18.4	0.0	0.0	0.0	0.0	0.0	0.0
8051.6	52.5°	2991.8	566.4	41.6	19.4	3.9	0.0	0.0	0.0	0.0	0.0
7421.3	55°	2659.7	577.1	44.5	21.3	12.6	0.0	0.0	0.0	0.0	0.0
6377.6	57.5°	2223.0	526.7	51.3	26.1	23.2	0.0	0.0	0.0	0.0	0.0
6214.0	58°	2145.6	503.5	53.3	27.1	25.2	0.0	0.0	0.0	0.0	0.0
5390.0	60°	1758.3	410.5	67.8	33.9	33.9	0.0	0.0	0.0	0.0	0.0
4418.9	62.5°	1214.1	358.2	77.5	43.6	34.9	0.0	0.0	0.0	0.0	0.0
3258.0	65°	858.8	323.4	84.2	46.5	28.1	0.0	0.0	0.0	0.0	0.0
2315.0	67.5°	641.9	298.2	92.9	47.4	14.5	0.0	0.0	0.0	0.0	0.0
1452.3	70°	491.9	279.8	114.2	50.3	3.9	0.0	0.0	0.0	0.0	0.0
865.6	72.5°	400.8	258.5	138.5	52.3	0.0	0.0	0.0	0.0	0.0	0.0
519.0	75°	332.1	233.3	133.6	57.1	0.0	0.0	0.0	0.0	0.0	0.0
276.9	77.5°	220.8	181.1	122.0	57.1	0.0	0.0	0.0	0.0	0.0	0.0
98.8	80°	77.5	71.6	94.9	50.3	0.0	0.0	0.0	0.0	0.0	0.0
20.3	82.5°	11.6	9.7	13.6	17.4	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°
56.2	0°	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
39.7	2.5°	39.7	39.7	38.7	39.7	39.7	41.6	46.5	53.3	61.0	63.9
33.9	5°	32.9	32.0	31.0	31.0	31.0	33.9	37.8	45.5	54.2	58.1
28.1	7.5°	27.1	26.1	25.2	24.2	24.2	26.1	31.0	39.7	48.4	52.3
23.2	10°	22.3	20.3	19.4	18.4	18.4	20.3	25.2	33.9	43.6	47.4
19.4	12.5°	18.4	15.5	13.6	12.6	11.6	14.5	19.4	27.1	37.8	42.6
14.5	15°	12.6	9.7	6.8	5.8	4.8	7.7	12.6	21.3	32.0	37.8
7.7	17.5°	6.8	2.9	1.0	0.0	0.0	1.9	5.8	15.5	26.1	31.0
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	19.4	24.2
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	11.6	16.5
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	8.7
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
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	2.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	7.7
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°
56.2	0°	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
66.8	2.5°	68.7	67.8	65.8	63.9	63.9	63.9	66.8	69.7	72.6	72.6
60.0	5°	63.9	63.9	62.9	61.0	61.0	62.0	65.8	70.7	74.6	75.5
55.2	7.5°	59.1	61.0	59.1	58.1	59.1	60.0	63.9	69.7	75.5	77.5
51.3	10°	56.2	57.1	57.1	56.2	56.2	58.1	62.0	69.7	77.5	80.4
46.5	12.5°	52.3	54.2	53.3	53.3	53.3	55.2	60.0	68.7	79.4	83.3
41.6	15°	48.4	51.3	51.3	50.3	50.3	51.3	58.1	67.8	82.3	89.1
35.8	17.5°	44.5	47.4	48.4	46.5	46.5	48.4	55.2	67.8	84.2	95.9
29.0	20°	36.8	41.6	44.5	41.6	41.6	43.6	50.3	63.9	85.2	102.6
21.3	22.5°	29.0	33.9	37.8	36.8	36.8	37.8	46.5	61.0	86.2	114.2
12.6	25°	21.3	26.1	29.0	31.0	31.0	33.9	42.6	59.1	90.0	138.5
5.8	27.5°	12.6	18.4	22.3	24.2	25.2	29.0	39.7	57.1	96.8	173.3
0.0	30°	5.8	10.7	15.5	19.4	19.4	26.1	36.8	55.2	105.5	223.7
0.0	32.5°	0.0	4.8	7.7	13.6	14.5	21.3	33.9	53.3	118.1	272.1
0.0	35°	0.0	0.0	3.9	10.7	10.7	17.4	31.0	51.3	137.5	308.9
0.0	37.5°	0.0	0.0	0.0	7.7	8.7	15.5	30.0	50.3	141.4	311.8
0.0	40°	0.0	0.0	0.0	5.8	6.8	14.5	30.0	51.3	127.8	305.0
0.0	42.5°	0.0	0.0	0.0	3.9	4.8	14.5	30.0	53.3	115.2	312.7
0.0	45°	0.0	0.0	0.0	2.9	3.9	15.5	29.0	52.3	108.4	353.4
0.0	47.5°	0.0	0.0	0.0	3.9	5.8	15.5	28.1	51.3	109.4	488.0
0.0	50°	0.0	0.0	0.0	4.8	6.8	15.5	29.0	49.4	120.1	750.4
0.0	52.5°	0.0	0.0	0.0	3.9	5.8	17.4	32.0	48.4	130.7	976.0
0.0	55°	0.0	0.0	0.0	1.0	2.9	22.3	34.9	48.4	147.2	1032.1
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	25.2	39.7	51.3	174.3	1009.8
0.0	58°	0.0	0.0	0.0	0.0	0.0	25.2	40.7	51.3	176.2	990.5
0.0	60°	0.0	0.0	0.0	0.0	0.0	25.2	44.5	57.1	189.8	882.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	21.3	53.3	71.6	197.5	693.2
0.0	65°	0.0	0.0	0.0	0.0	0.0	17.4	62.9	78.4	203.3	551.9
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	16.5	64.9	79.4	206.2	439.6
0.0	70°	0.0	0.0	0.0	0.0	0.0	17.4	63.9	85.2	215.9	357.3
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	19.4	58.1	93.9	215.9	316.6
0.0	75°	0.0	0.0	0.0	0.0	0.0	20.3	54.2	105.5	196.5	274.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	19.4	53.3	123.0	175.2	225.6
0.0	80°	1.9	2.9	2.9	1.9	1.9	16.5	52.3	124.9	149.1	154.9
1.0	82.5°	5.8	7.7	6.8	4.8	4.8	14.5	46.5	104.6	77.5	66.8
5.8	85°	10.7	12.6	12.6	10.7	10.7	13.6	29.0	37.8	26.1	21.3
10.7	87.5°	14.5	16.5	16.5	14.5	14.5	13.6	12.6	11.6	10.7	10.7
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: SP1-2407-184-13

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-927-U-5WQ

Data in this report applies to families of products including GSS-SB1A-927-U-5WQ

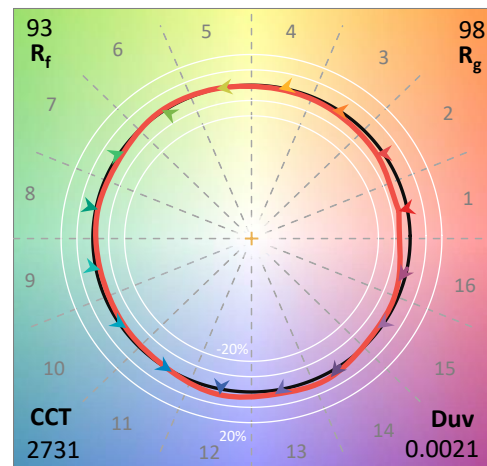
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-13
 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-927-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K): 2731
 CIE u' : 0.2605
 CIE v' : 0.5298
 Duv: 0.0021
 CIE x: 0.4610
 CIE y: 0.4166
 CIE z: 0.1224
 Peak Wavelength (nm): 622
 Dominant Wavelength (nm): 583
 Purity: 63.43685
 R_f: 92.6
 R_g: 98

CRI (Ra): 91.8
 R1: 91.4
 R2: 95.1
 R3: 97.6
 R4: 92.3
 R5: 91.1
 R6: 94.7
 R7: 92.3
 R8: 80.0
 R9: 54.7
 R10: 87.7
 R11: 92.9
 R12: 84.0
 R13: 92.2
 R14: 97.8
 R15: 86.8



Test Conditions

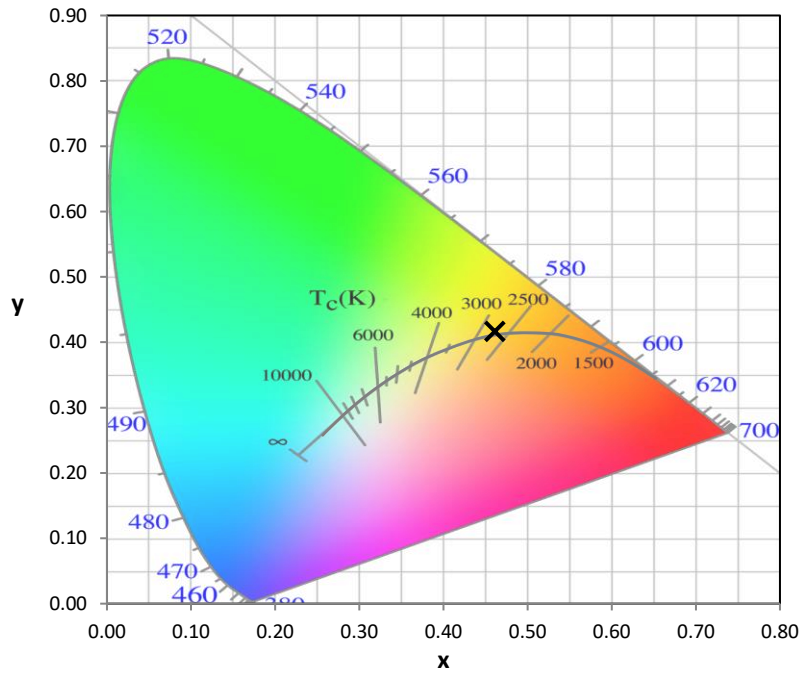
Stabilization Time: M
 Operation Time: 1H 0M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-13

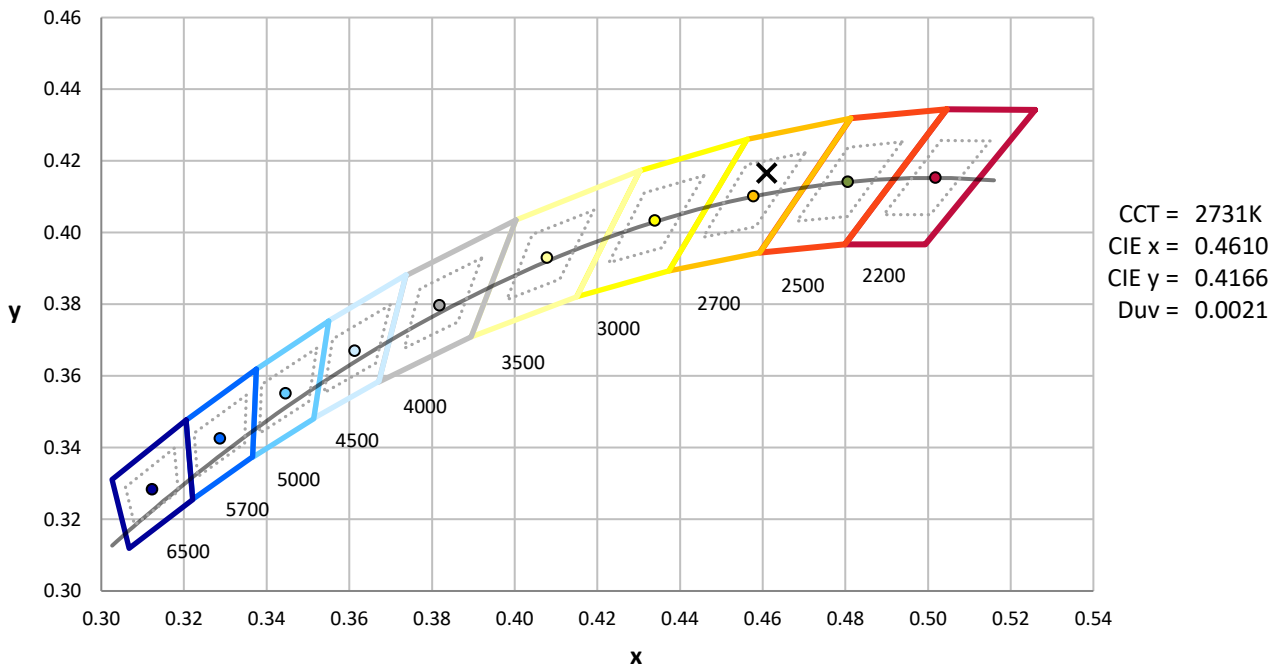
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-13

CIE 1931 Chromaticity Diagram



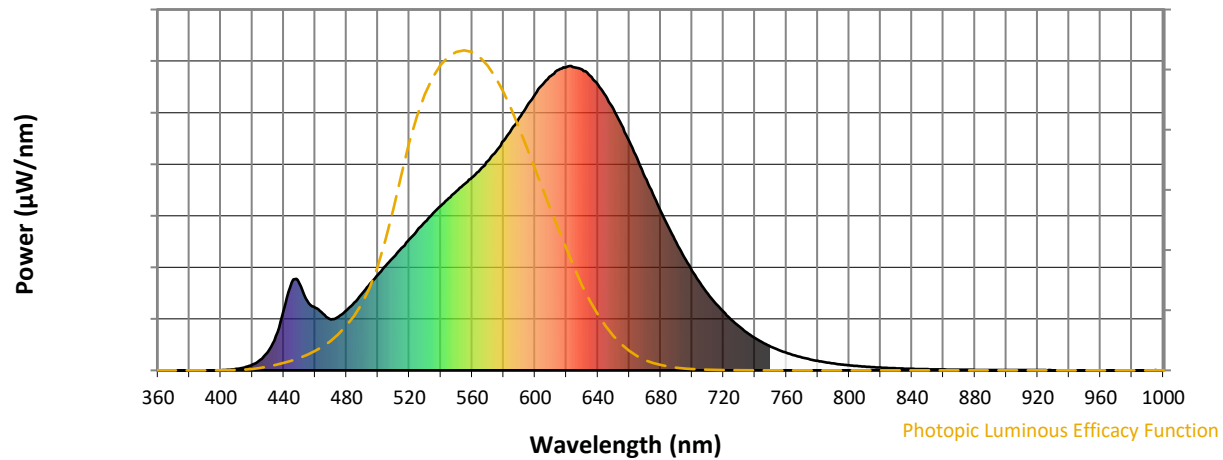
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-13

Photopic Flux vs. Wavelength

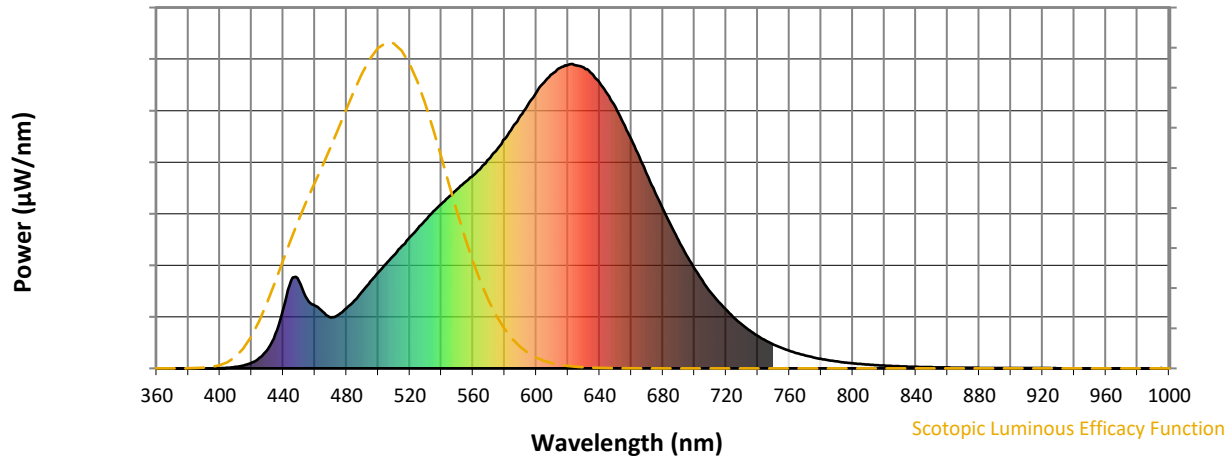


Photopic Lumens: NR

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	253	NR	620	997	NR	750	78	NR	880	2	NR
365	0	NR	495	285	NR	625	996	NR	755	67	NR	885	1	NR
370	0	NR	500	314	NR	630	989	NR	760	58	NR	890	1	NR
375	0	NR	505	343	NR	635	969	NR	765	50	NR	895	1	NR
380	0	NR	510	372	NR	640	939	NR	770	42	NR	900	1	NR
385	0	NR	515	401	NR	645	901	NR	775	36	NR	905	1	NR
390	0	NR	520	431	NR	650	858	NR	780	31	NR	910	1	NR
395	0	NR	525	459	NR	655	806	NR	785	26	NR	915	1	NR
400	0	NR	530	488	NR	660	752	NR	790	23	NR	920	1	NR
405	2	NR	535	516	NR	665	696	NR	795	19	NR	925	1	NR
410	5	NR	540	540	NR	670	636	NR	800	17	NR	930	0	NR
415	10	NR	545	566	NR	675	579	NR	805	14	NR	935	0	NR
420	19	NR	550	589	NR	680	524	NR	810	12	NR	940	0	NR
425	34	NR	555	612	NR	685	470	NR	815	11	NR	945	0	NR
430	61	NR	560	634	NR	690	421	NR	820	9	NR	950	0	NR
435	113	NR	565	660	NR	695	371	NR	825	8	NR	955	0	NR
440	198	NR	570	688	NR	700	327	NR	830	7	NR	960	0	NR
445	288	NR	575	719	NR	705	288	NR	835	6	NR	965	0	NR
450	286	NR	580	754	NR	710	251	NR	840	5	NR	970	0	NR
455	228	NR	585	791	NR	715	220	NR	845	4	NR	975	0	NR
460	207	NR	590	831	NR	720	192	NR	850	4	NR	980	0	NR
465	186	NR	595	870	NR	725	166	NR	855	3	NR	985	0	NR
470	168	NR	600	907	NR	730	144	NR	860	3	NR	990	1	NR
475	177	NR	605	940	NR	735	124	NR	865	2	NR	995	1	NR
480	198	NR	610	967	NR	740	106	NR	870	2	NR	1000	0	NR
485	223	NR	615	988	NR	745	91	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-13

Scotopic Flux vs. Wavelength



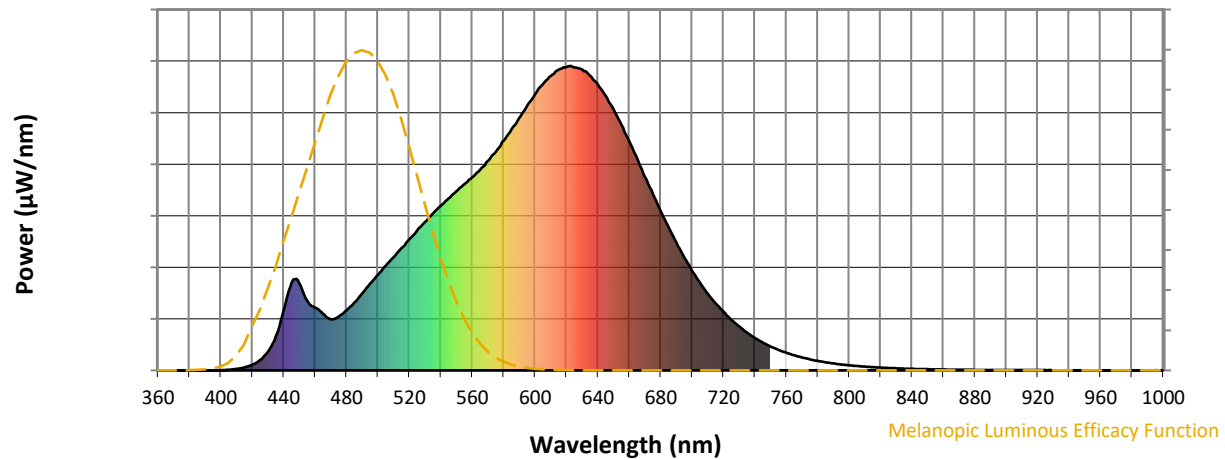
Scotopic Lumens: NR

S/P: 1.27

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	253	NR	620	997	NR	750	78	NR	880	2	NR
365	0	NR	495	285	NR	625	996	NR	755	67	NR	885	1	NR
370	0	NR	500	314	NR	630	989	NR	760	58	NR	890	1	NR
375	0	NR	505	343	NR	635	969	NR	765	50	NR	895	1	NR
380	0	NR	510	372	NR	640	939	NR	770	42	NR	900	1	NR
385	0	NR	515	401	NR	645	901	NR	775	36	NR	905	1	NR
390	0	NR	520	431	NR	650	858	NR	780	31	NR	910	1	NR
395	0	NR	525	459	NR	655	806	NR	785	26	NR	915	1	NR
400	0	NR	530	488	NR	660	752	NR	790	23	NR	920	1	NR
405	2	NR	535	516	NR	665	696	NR	795	19	NR	925	1	NR
410	5	NR	540	540	NR	670	636	NR	800	17	NR	930	0	NR
415	10	NR	545	566	NR	675	579	NR	805	14	NR	935	0	NR
420	19	NR	550	589	NR	680	524	NR	810	12	NR	940	0	NR
425	34	NR	555	612	NR	685	470	NR	815	11	NR	945	0	NR
430	61	NR	560	634	NR	690	421	NR	820	9	NR	950	0	NR
435	113	NR	565	660	NR	695	371	NR	825	8	NR	955	0	NR
440	198	NR	570	688	NR	700	327	NR	830	7	NR	960	0	NR
445	288	NR	575	719	NR	705	288	NR	835	6	NR	965	0	NR
450	286	NR	580	754	NR	710	251	NR	840	5	NR	970	0	NR
455	228	NR	585	791	NR	715	220	NR	845	4	NR	975	0	NR
460	207	NR	590	831	NR	720	192	NR	850	4	NR	980	0	NR
465	186	NR	595	870	NR	725	166	NR	855	3	NR	985	0	NR
470	168	NR	600	907	NR	730	144	NR	860	3	NR	990	1	NR
475	177	NR	605	940	NR	735	124	NR	865	2	NR	995	1	NR
480	198	NR	610	967	NR	740	106	NR	870	2	NR	1000	0	NR
485	223	NR	615	988	NR	745	91	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-13

Melanopic Flux vs. Wavelength

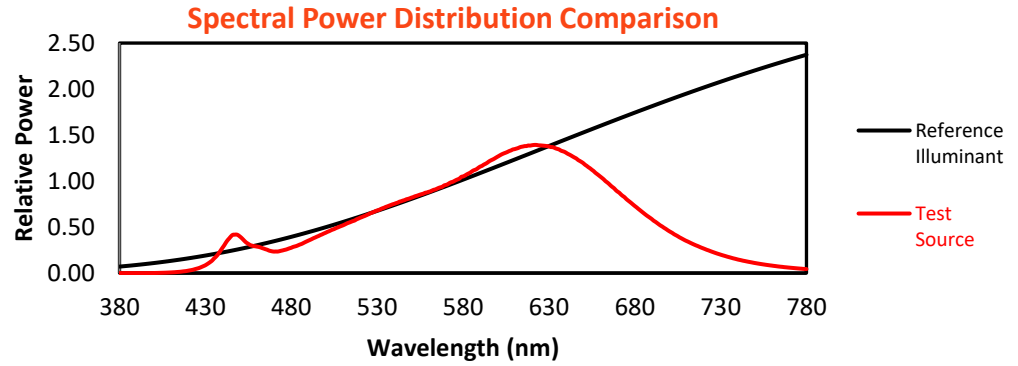
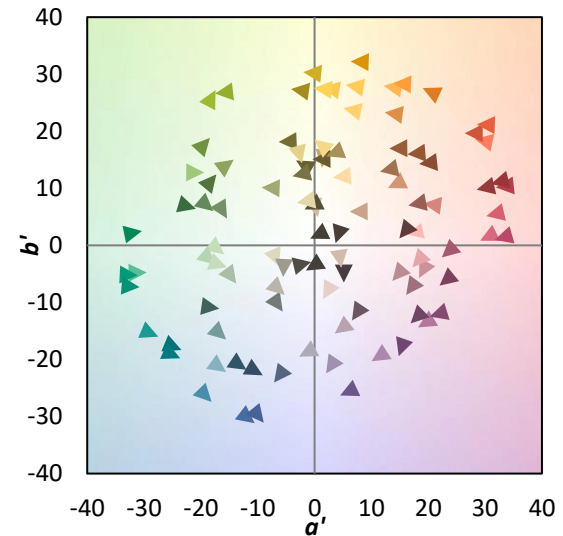
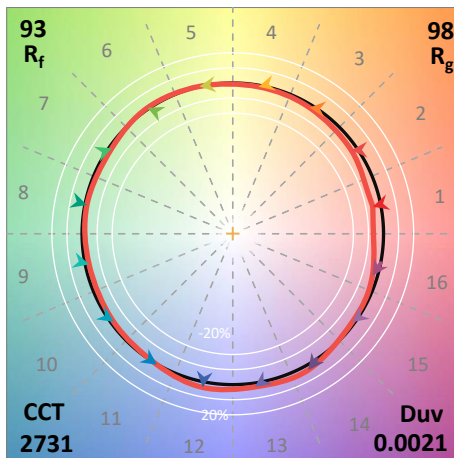
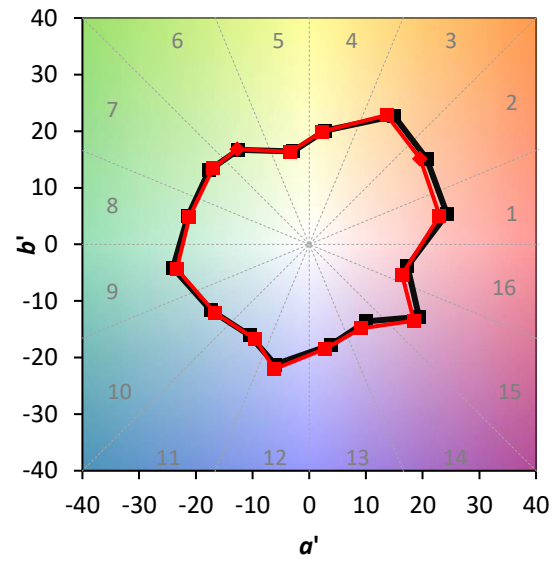
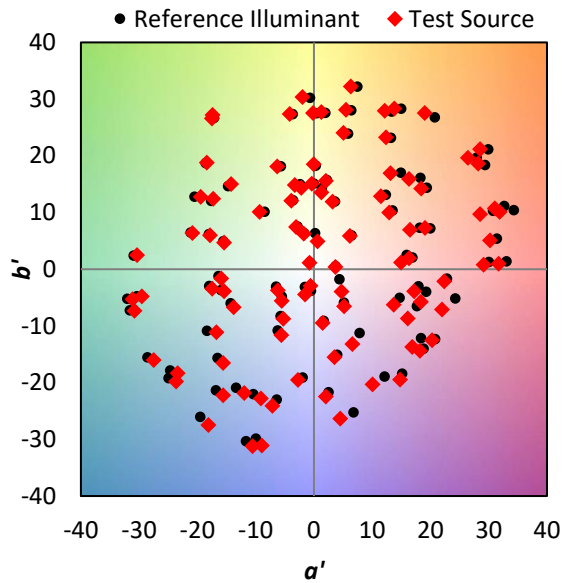


Melanopic Lumens: NR

M/P: 2.38

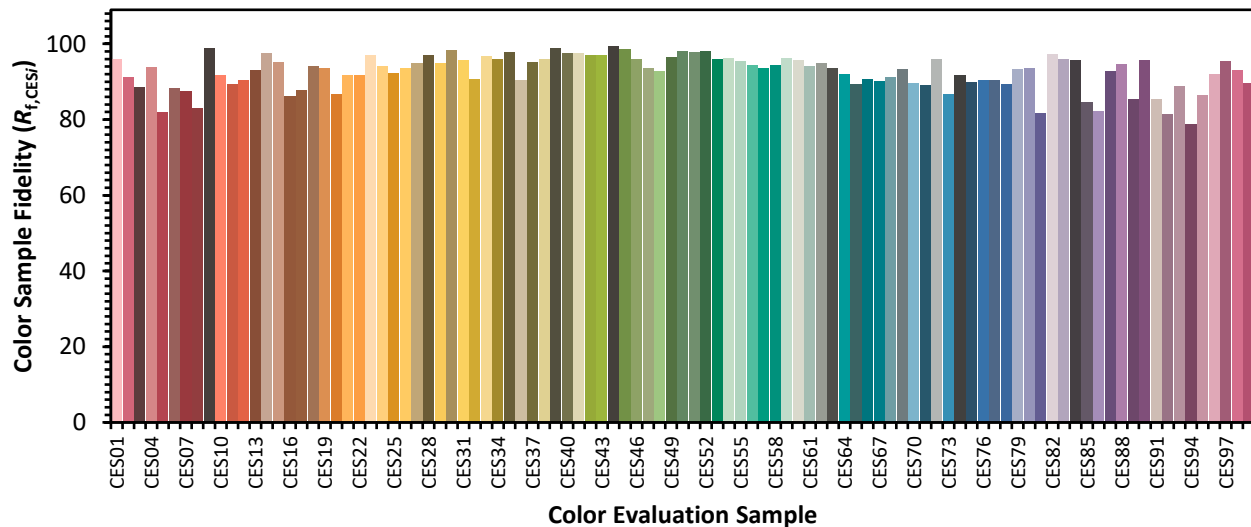
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	253	NR	620	997	NR	750	78	NR	880	2	NR
365	0	NR	495	285	NR	625	996	NR	755	67	NR	885	1	NR
370	0	NR	500	314	NR	630	989	NR	760	58	NR	890	1	NR
375	0	NR	505	343	NR	635	969	NR	765	50	NR	895	1	NR
380	0	NR	510	372	NR	640	939	NR	770	42	NR	900	1	NR
385	0	NR	515	401	NR	645	901	NR	775	36	NR	905	1	NR
390	0	NR	520	431	NR	650	858	NR	780	31	NR	910	1	NR
395	0	NR	525	459	NR	655	806	NR	785	26	NR	915	1	NR
400	0	NR	530	488	NR	660	752	NR	790	23	NR	920	1	NR
405	2	NR	535	516	NR	665	696	NR	795	19	NR	925	1	NR
410	5	NR	540	540	NR	670	636	NR	800	17	NR	930	0	NR
415	10	NR	545	566	NR	675	579	NR	805	14	NR	935	0	NR
420	19	NR	550	589	NR	680	524	NR	810	12	NR	940	0	NR
425	34	NR	555	612	NR	685	470	NR	815	11	NR	945	0	NR
430	61	NR	560	634	NR	690	421	NR	820	9	NR	950	0	NR
435	113	NR	565	660	NR	695	371	NR	825	8	NR	955	0	NR
440	198	NR	570	688	NR	700	327	NR	830	7	NR	960	0	NR
445	288	NR	575	719	NR	705	288	NR	835	6	NR	965	0	NR
450	286	NR	580	754	NR	710	251	NR	840	5	NR	970	0	NR
455	228	NR	585	791	NR	715	220	NR	845	4	NR	975	0	NR
460	207	NR	590	831	NR	720	192	NR	850	4	NR	980	0	NR
465	186	NR	595	870	NR	725	166	NR	855	3	NR	985	0	NR
470	168	NR	600	907	NR	730	144	NR	860	3	NR	990	1	NR
475	177	NR	605	940	NR	735	124	NR	865	2	NR	995	1	NR
480	198	NR	610	967	NR	740	106	NR	870	2	NR	1000	0	NR
485	223	NR	615	988	NR	745	91	NR	875	2	NR			

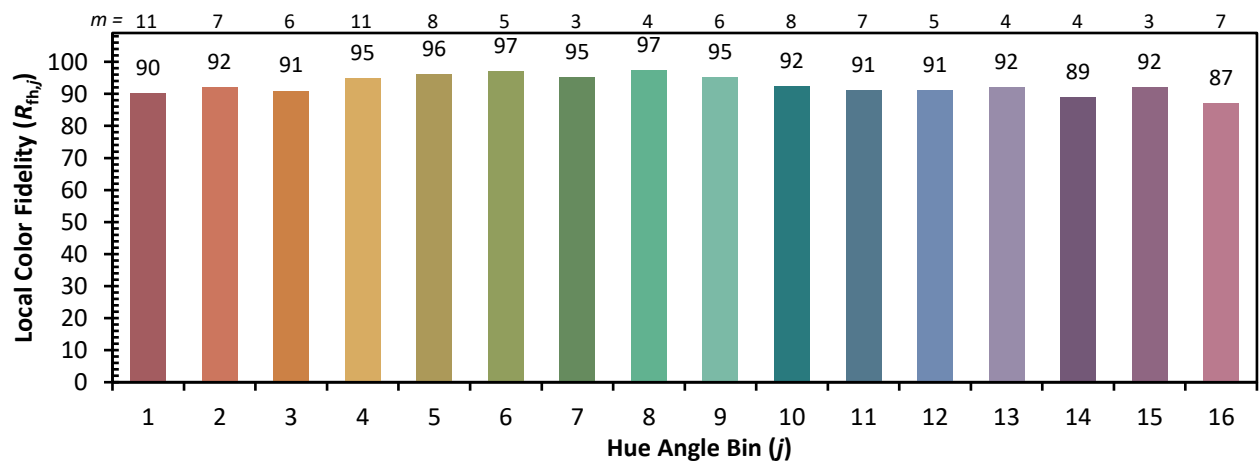
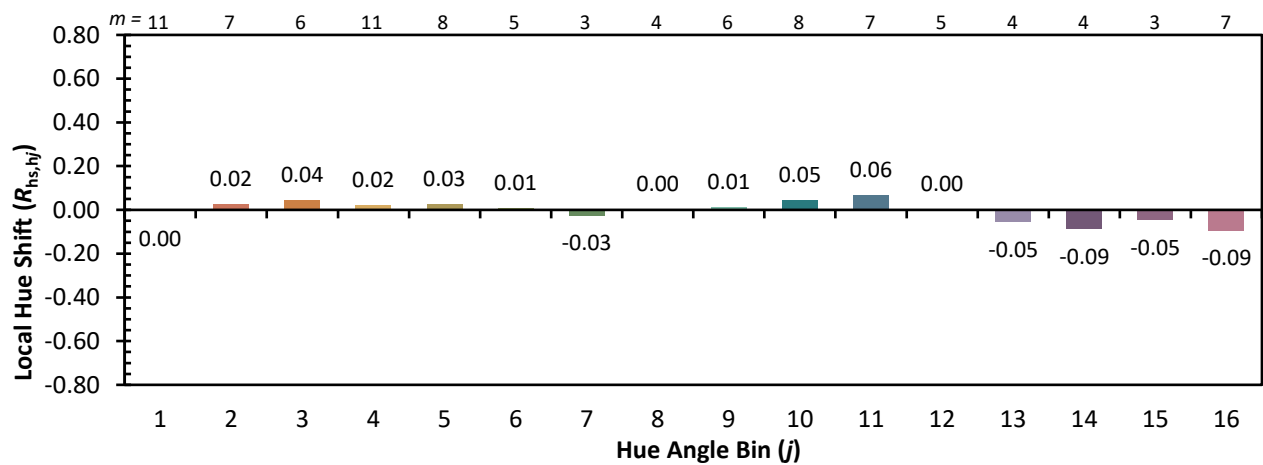
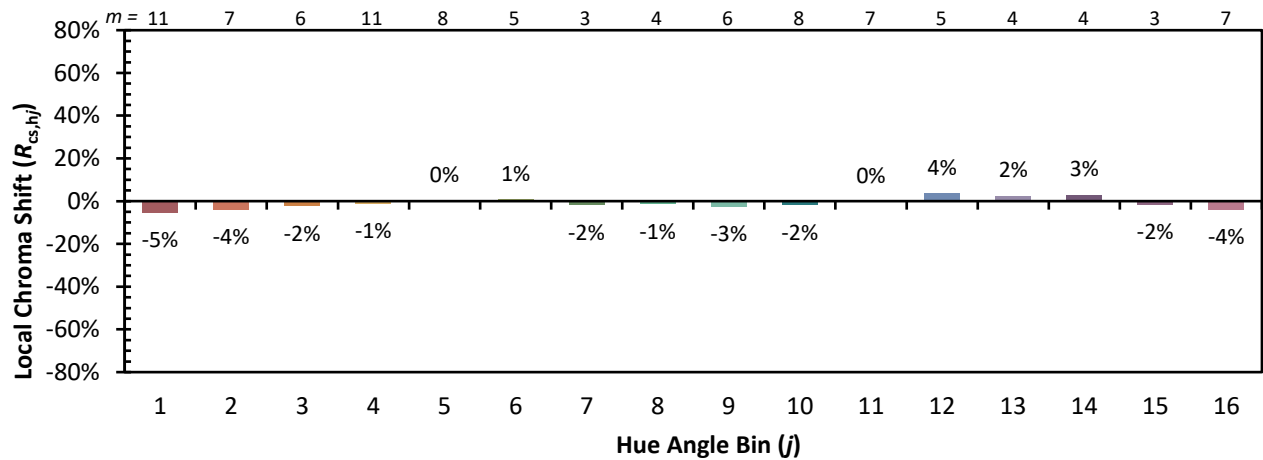
REPORT NUMBER: SP1-2407-184-13

TM-30-18
Summary
 $R_f = 92.6$
 $R_g = 98$
 $CIE\ R_a = 91.8$
 $R_9 = 54.7$

Color Vector Graphics


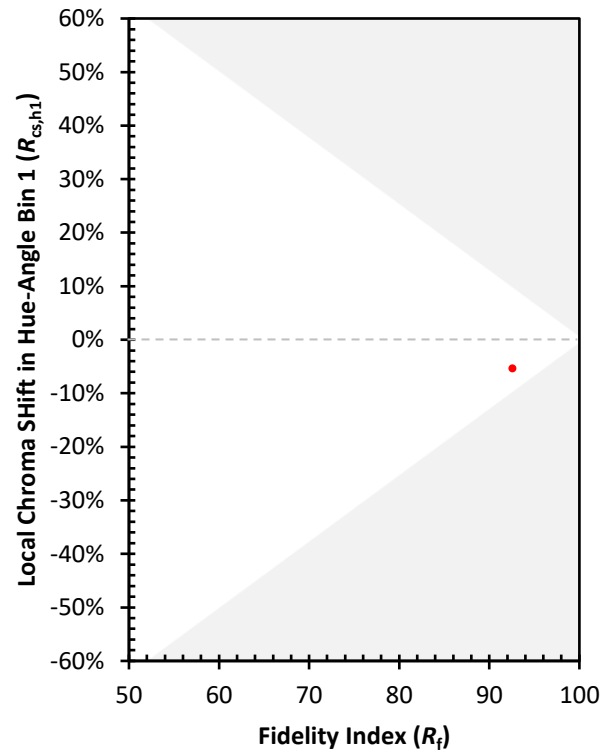
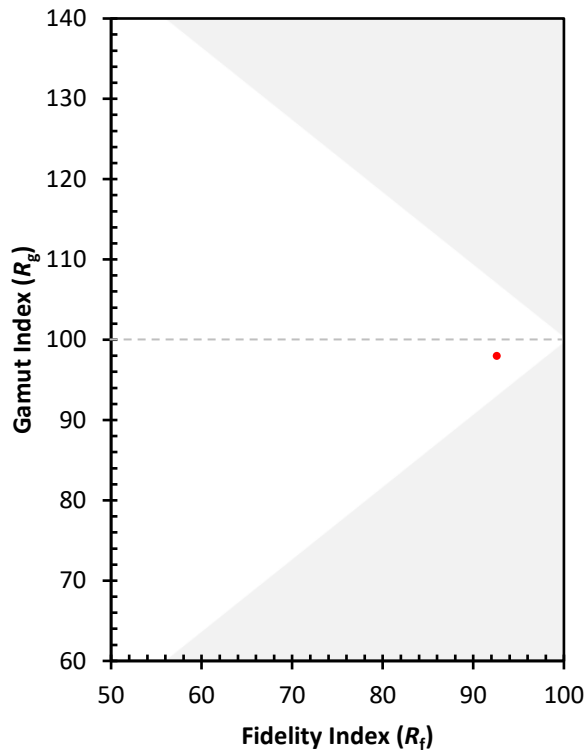
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 94	CES51 = 98	CES76 = 90
CES02 = 64	CES27 = 95	CES52 = 98	CES77 = 90
CES03 = 32	CES28 = 97	CES53 = 96	CES78 = 89
CES04 = 71	CES29 = 95	CES54 = 96	CES79 = 93
CES05 = 51	CES30 = 98	CES55 = 95	CES80 = 94
CES06 = 52	CES31 = 96	CES56 = 94	CES81 = 82
CES07 = 44	CES32 = 91	CES57 = 94	CES82 = 97
CES08 = 43	CES33 = 97	CES58 = 94	CES83 = 96
CES09 = 29	CES34 = 96	CES59 = 96	CES84 = 96
CES10 = 77	CES35 = 98	CES60 = 96	CES85 = 85
CES11 = 59	CES36 = 90	CES61 = 94	CES86 = 82
CES12 = 66	CES37 = 95	CES62 = 95	CES87 = 93
CES13 = 44	CES38 = 96	CES63 = 94	CES88 = 95
CES14 = 74	CES39 = 99	CES64 = 92	CES89 = 85
CES15 = 72	CES40 = 98	CES65 = 89	CES90 = 96
CES16 = 48	CES41 = 98	CES66 = 91	CES91 = 85
CES17 = 50	CES42 = 97	CES67 = 90	CES92 = 82
CES18 = 57	CES43 = 97	CES68 = 91	CES93 = 89
CES19 = 72	CES44 = 99	CES69 = 93	CES94 = 79
CES20 = 68	CES45 = 99	CES70 = 90	CES95 = 87
CES21 = 87	CES46 = 96	CES71 = 89	CES96 = 92
CES22 = 79	CES47 = 94	CES72 = 96	CES97 = 96
CES23 = 92	CES48 = 93	CES73 = 87	CES98 = 93
CES24 = 91	CES49 = 96	CES74 = 92	CES99 = 90
CES25 = 72	CES50 = 98	CES75 = 90	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)