

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: P1050051

Luminaire Tested: **GALN-SA4C-950-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1050051
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-950-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 4xLight Square PACKAGE
90CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16216.5 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

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

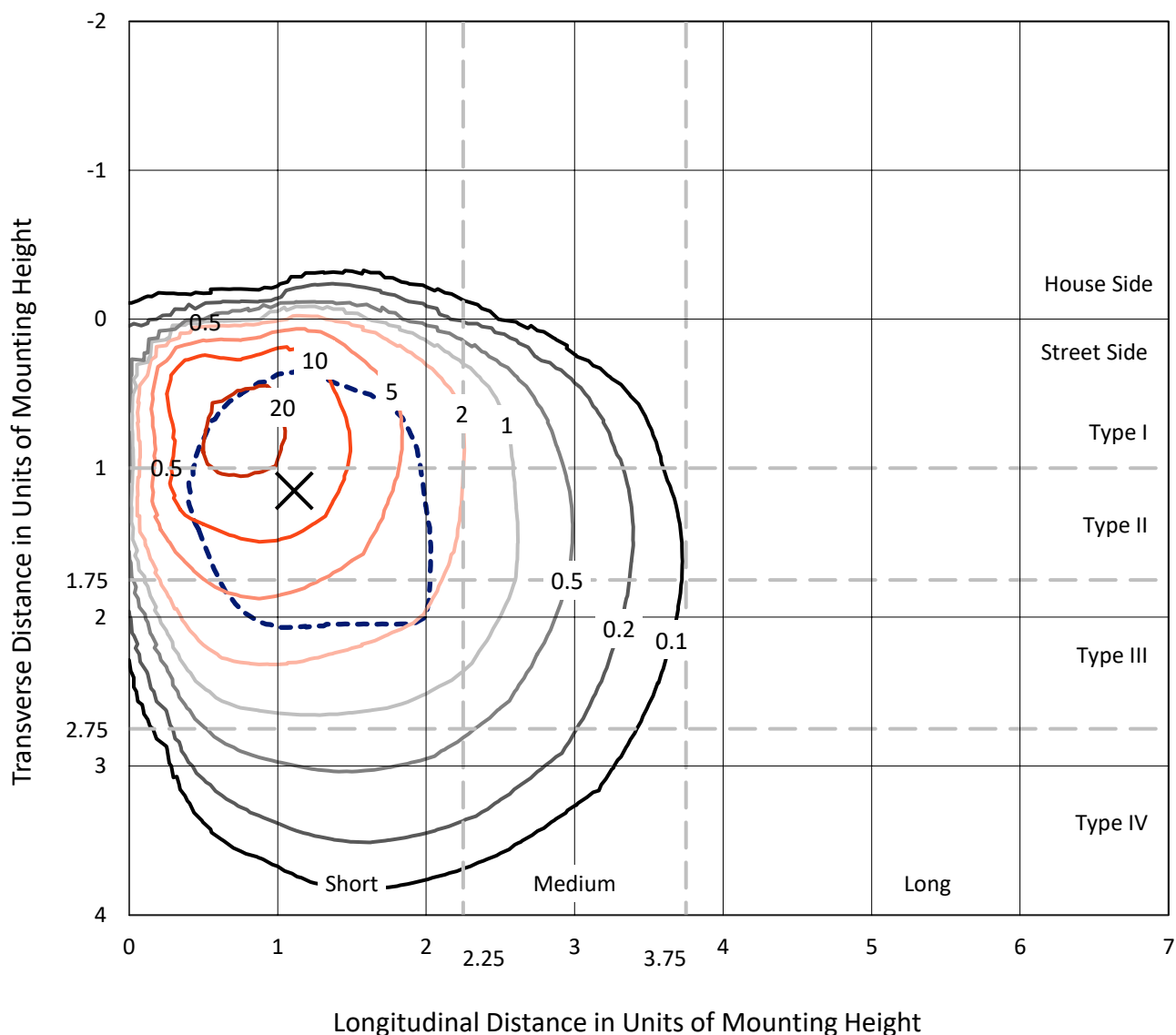
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

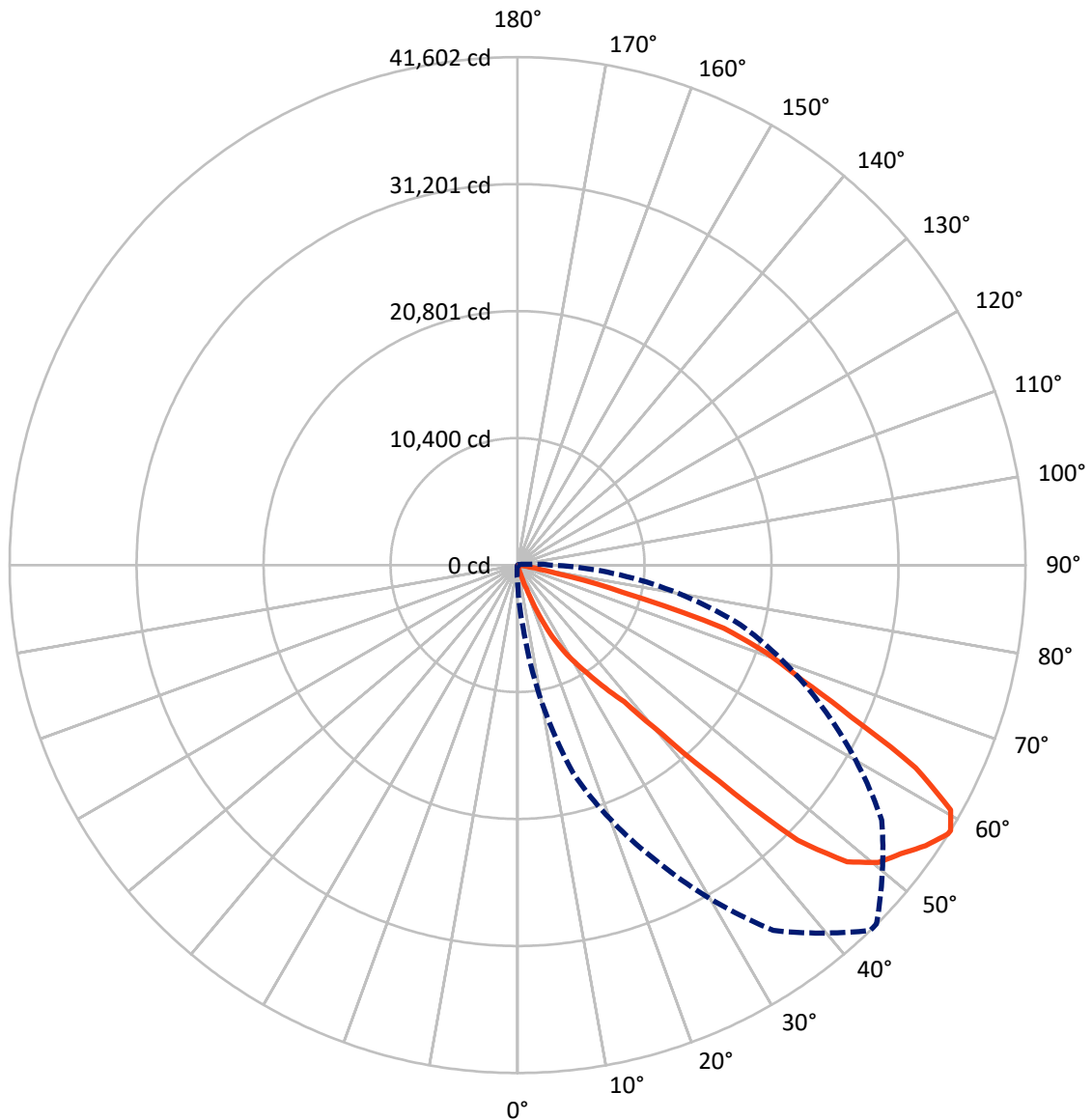


Based on 20 foot mounting height. Maximum calculated value = 28.2 fc

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	110.7	0.0	110.7
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	16105.7	0.0	16105.7
	% Fixture	99.3	0.0	99.3
Total	Lumens	16216.5	0.0	16216.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.3	0.0
10°-20°	35.6	0.2
20°-30°	384.2	2.4
30°-40°	1136.1	7.0
40°-50°	3386.3	20.9
50°-60°	5373.2	33.1
60°-70°	4481.9	27.6
70°-80°	1382.3	8.5
80°-90°	30.7	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°	16216.5	100.0
0°-180°	16216.5	100.0

Coefficient of Utilization



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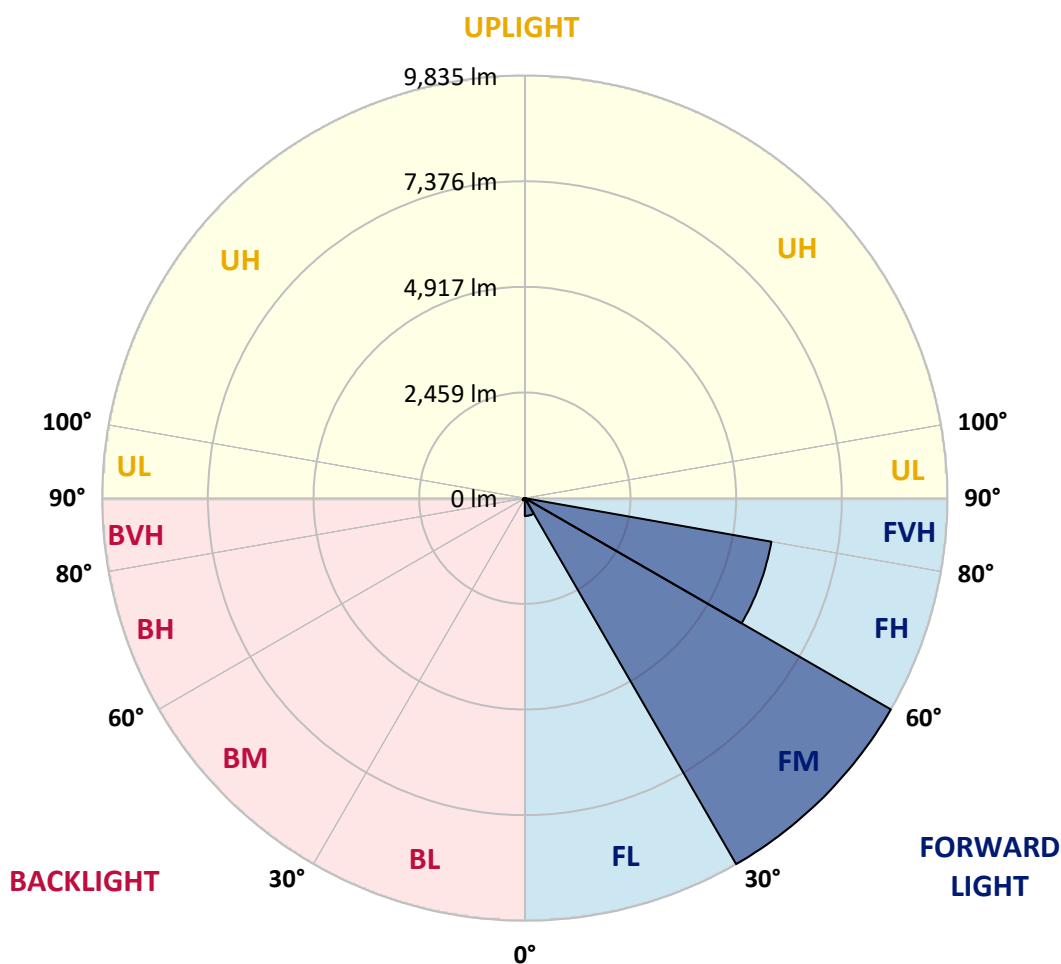
CATALOG NUMBER: GALN-SA4C-950-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	415.2	2.6			
FM	(30°-60°)	9834.9	60.6			
FH	(60°-80°)	5826.3	35.9			G3/7500
FVH	(80°-90°)	29.2	0.2			G1/100
BL	(0°-30°)	10.8	0.1	B0/110		
BM	(30°-60°)	60.6	0.4	B0/220		
BH	(60°-80°)	37.8	0.2	B0/110		G0/110
BVH	(80°-90°)	1.5	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°	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
2.5°	91.9	91.9	88.2	83.3	78.4	73.5	72.3	69.8	68.6	67.4
5°	95.6	95.6	94.3	90.7	85.8	82.1	82.1	78.4	76.0	73.5
7.5°	98.0	99.2	101.7	100.5	98.0	94.3	94.3	91.9	88.2	82.1
10°	101.7	105.4	110.3	112.7	113.9	113.9	112.7	111.5	105.4	96.8
12.5°	105.4	112.7	125.0	137.2	144.6	154.4	153.1	150.7	134.8	116.4
15°	112.7	123.7	149.5	185.0	240.1	274.4	287.9	275.6	223.0	156.8
17.5°	121.3	139.7	216.8	387.1	634.6	752.2	823.2	765.6	507.2	297.7
20°	129.9	170.3	403.0	1003.3	1646.4	2031.1	2137.7	1971.0	1265.4	567.2
22.5°	144.6	238.9	817.1	2073.9	3547.6	4124.6	4233.6	3700.8	2390.0	1119.7
25°	175.2	346.7	1408.8	3379.8	5294.5	6268.4	6223.1	5524.8	3877.2	1788.5
27.5°	219.3	504.7	2130.3	4802.1	6967.9	7826.6	7929.5	7065.9	5168.3	2630.1
30°	283.0	699.5	2904.5	5941.3	8309.3	9237.8	9255.0	8361.9	6323.5	3368.8
32.5°	344.2	883.2	3581.9	7042.6	9631.1	10649.0	10725.0	9626.2	7185.9	4138.1
35°	390.8	1003.3	4268.0	8010.4	10963.9	12366.5	12361.6	11057.0	8207.6	4825.3
37.5°	394.5	1123.3	4889.0	9000.2	12651.9	14222.4	14378.0	12939.8	9442.4	5675.5
40°	385.9	1258.1	5675.5	10543.7	15693.7	18103.3	18240.5	16427.4	11919.4	7130.8
42.5°	395.7	1492.1	6952.0	13394.3	20744.4	24205.1	24469.7	22563.5	16472.8	10100.2
45°	447.1	1931.8	9626.2	18163.3	27943.8	32162.8	32074.6	29329.3	21771.0	14620.5
47.5°	617.4	3008.6	13590.3	22804.9	32545.0	36302.1	36378.0	33022.7	24862.9	18095.9
50°	949.4	4603.6	16921.1	25258.6	34523.4	38292.7	38221.7	34344.5	26037.7	19807.3
52.5°	1234.8	5757.6	18592.0	26119.8	34776.9	39276.4	39271.5	34692.4	26220.2	19954.3
55°	1305.9	5844.5	18605.5	26166.3	35345.3	40563.9	40725.6	35548.7	26456.6	19312.4
57.5°	1277.7	5174.5	17828.9	26435.8	36357.2	41559.8	41568.4	36378.0	27056.9	18919.1
58°	1253.2	5069.1	17672.1	26588.9	36531.2	41601.5	41580.7	36416.0	27545.7	18904.4
60°	1116.0	4401.5	17060.8	26979.7	36272.7	40746.4	40551.7	35586.7	27473.4	18753.7
62.5°	877.1	3433.7	16459.3	26527.7	33501.7	36607.1	36688.0	31506.1	25045.4	17875.4
65°	698.3	2559.1	15204.9	23269.1	27587.3	30061.9	30363.2	25620.0	20904.9	15136.3
67.5°	556.2	1849.8	12754.8	18525.9	21829.8	25089.5	25308.8	21510.0	16195.9	11597.2
70°	452.0	1250.7	8804.2	13548.7	18005.3	21670.5	21684.0	17869.3	12088.4	7598.8
72.5°	400.6	866.1	5110.8	9881.0	14599.7	17658.6	17302.1	14500.5	9290.5	4500.7
75°	346.7	574.5	2506.4	6040.5	8852.0	8912.0	9048.0	6726.6	4644.0	2140.1
77.5°	285.4	407.9	987.4	1650.1	2654.6	3398.2	3524.4	2670.5	1544.7	526.8
80°	196.0	193.6	265.8	505.9	759.5	951.8	888.1	687.2	404.3	202.1
82.5°	84.5	91.9	120.1	144.6	117.6	113.9	109.0	69.8	53.9	41.7
85°	27.0	24.5	25.7	25.7	20.8	15.9	15.9	7.4	0.0	0.0
87.5°	13.5	11.0	11.0	9.8	6.1	2.5	1.2	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°
71.1	0°	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
66.2	2.5°	64.9	64.9	62.5	60.0	58.8	56.4	55.1	53.9	52.7	51.5
71.1	5°	68.6	67.4	63.7	60.0	56.4	52.7	50.2	47.8	45.3	44.1
78.4	7.5°	74.7	72.3	64.9	58.8	53.9	49.0	46.6	42.9	40.4	36.8
87.0	10°	82.1	77.2	67.4	60.0	52.7	46.6	42.9	39.2	35.5	30.6
99.2	12.5°	91.9	83.3	71.1	58.8	50.2	42.9	39.2	34.3	30.6	27.0
115.2	15°	100.5	89.4	72.3	58.8	47.8	39.2	34.3	29.4	25.7	20.8
144.6	17.5°	112.7	94.3	71.1	55.1	44.1	34.3	29.4	25.7	19.6	12.3
214.4	20°	133.5	98.0	68.6	51.5	38.0	28.2	22.1	17.2	8.6	2.5
322.2	22.5°	166.6	107.8	66.2	46.6	33.1	22.1	14.7	6.1	0.0	0.0
490.0	25°	230.3	125.0	66.2	44.1	29.4	15.9	4.9	0.0	0.0	0.0
695.8	27.5°	306.3	148.2	66.2	38.0	23.3	8.6	0.0	0.0	0.0	0.0
948.2	30°	383.4	174.0	66.2	33.1	18.4	1.2	0.0	0.0	0.0	0.0
1167.4	32.5°	456.9	196.0	67.4	28.2	12.3	0.0	0.0	0.0	0.0	0.0
1471.2	35°	531.7	199.7	66.2	24.5	7.4	0.0	0.0	0.0	0.0	0.0
1843.6	37.5°	627.2	192.3	62.5	22.1	3.7	0.0	0.0	0.0	0.0	0.0
2425.5	40°	771.8	196.0	58.8	20.8	1.2	0.0	0.0	0.0	0.0	0.0
3463.1	42.5°	1038.8	211.9	53.9	20.8	0.0	0.0	0.0	0.0	0.0	0.0
5516.2	45°	1795.9	284.2	49.0	22.1	0.0	0.0	0.0	0.0	0.0	0.0
8281.1	47.5°	2970.7	510.8	47.8	22.1	0.0	0.0	0.0	0.0	0.0	0.0
9975.3	50°	3791.4	643.1	50.2	23.3	0.0	0.0	0.0	0.0	0.0	0.0
10187.2	52.5°	3785.3	716.6	52.7	24.5	4.9	0.0	0.0	0.0	0.0	0.0
9389.7	55°	3365.1	730.1	56.4	27.0	15.9	0.0	0.0	0.0	0.0	0.0
8069.2	57.5°	2812.6	666.4	64.9	33.1	29.4	0.0	0.0	0.0	0.0	0.0
7862.1	58°	2714.6	637.0	67.4	34.3	31.9	0.0	0.0	0.0	0.0	0.0
6819.7	60°	2224.6	519.4	85.8	42.9	42.9	0.0	0.0	0.0	0.0	0.0
5591.0	62.5°	1536.2	453.3	98.0	55.1	44.1	0.0	0.0	0.0	0.0	0.0
4122.2	65°	1086.6	409.2	106.6	58.8	35.5	0.0	0.0	0.0	0.0	0.0
2929.0	67.5°	812.2	377.3	117.6	60.0	18.4	0.0	0.0	0.0	0.0	0.0
1837.5	70°	622.3	354.0	144.6	63.7	4.9	0.0	0.0	0.0	0.0	0.0
1095.2	72.5°	507.2	327.1	175.2	66.2	0.0	0.0	0.0	0.0	0.0	0.0
656.6	75°	420.2	295.2	169.1	72.3	0.0	0.0	0.0	0.0	0.0	0.0
350.4	77.5°	279.3	229.1	154.4	72.3	0.0	0.0	0.0	0.0	0.0	0.0
125.0	80°	98.0	90.7	120.1	63.7	0.0	0.0	0.0	0.0	0.0	0.0
25.7	82.5°	14.7	12.3	17.2	22.1	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°
71.1	0°	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
50.2	2.5°	50.2	50.2	49.0	50.2	50.2	52.7	58.8	67.4	77.2	80.9
42.9	5°	41.7	40.4	39.2	39.2	39.2	42.9	47.8	57.6	68.6	73.5
35.5	7.5°	34.3	33.1	31.9	30.6	30.6	33.1	39.2	50.2	61.3	66.2
29.4	10°	28.2	25.7	24.5	23.3	23.3	25.7	31.9	42.9	55.1	60.0
24.5	12.5°	23.3	19.6	17.2	15.9	14.7	18.4	24.5	34.3	47.8	53.9
18.4	15°	15.9	12.3	8.6	7.4	6.1	9.8	15.9	27.0	40.4	47.8
9.8	17.5°	8.6	3.7	1.2	0.0	0.0	2.5	7.4	19.6	33.1	39.2
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.8	24.5	30.6
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	14.7	20.8
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	11.0
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
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	3.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	9.8
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°
71.1	0°	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
84.5	2.5°	87.0	85.8	83.3	80.9	80.9	80.9	84.5	88.2	91.9	91.9
76.0	5°	80.9	80.9	79.6	77.2	77.2	78.4	83.3	89.4	94.3	95.6
69.8	7.5°	74.7	77.2	74.7	73.5	74.7	76.0	80.9	88.2	95.6	98.0
64.9	10°	71.1	72.3	72.3	71.1	71.1	73.5	78.4	88.2	98.0	101.7
58.8	12.5°	66.2	68.6	67.4	67.4	67.4	69.8	76.0	87.0	100.5	105.4
52.7	15°	61.3	64.9	64.9	63.7	63.7	64.9	73.5	85.8	104.1	112.7
45.3	17.5°	56.4	60.0	61.3	58.8	58.8	61.3	69.8	85.8	106.6	121.3
36.8	20°	46.6	52.7	56.4	52.7	52.7	55.1	63.7	80.9	107.8	129.9
27.0	22.5°	36.8	42.9	47.8	46.6	46.6	47.8	58.8	77.2	109.0	144.6
15.9	25°	27.0	33.1	36.8	39.2	39.2	42.9	53.9	74.7	113.9	175.2
7.4	27.5°	15.9	23.3	28.2	30.6	31.9	36.8	50.2	72.3	122.5	219.3
0.0	30°	7.4	13.5	19.6	24.5	24.5	33.1	46.6	69.8	133.5	283.0
0.0	32.5°	0.0	6.1	9.8	17.2	18.4	27.0	42.9	67.4	149.5	344.2
0.0	35°	0.0	0.0	4.9	13.5	13.5	22.1	39.2	64.9	174.0	390.8
0.0	37.5°	0.0	0.0	0.0	9.8	11.0	19.6	38.0	63.7	178.9	394.5
0.0	40°	0.0	0.0	0.0	7.4	8.6	18.4	38.0	64.9	161.7	385.9
0.0	42.5°	0.0	0.0	0.0	4.9	6.1	18.4	38.0	67.4	145.8	395.7
0.0	45°	0.0	0.0	0.0	3.7	4.9	19.6	36.8	66.2	137.2	447.1
0.0	47.5°	0.0	0.0	0.0	4.9	7.4	19.6	35.5	64.9	138.4	617.4
0.0	50°	0.0	0.0	0.0	6.1	8.6	19.6	36.8	62.5	151.9	949.4
0.0	52.5°	0.0	0.0	0.0	4.9	7.4	22.1	40.4	61.3	165.4	1234.8
0.0	55°	0.0	0.0	0.0	1.2	3.7	28.2	44.1	61.3	186.2	1305.9
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	31.9	50.2	64.9	220.5	1277.7
0.0	58°	0.0	0.0	0.0	0.0	0.0	31.9	51.5	64.9	223.0	1253.2
0.0	60°	0.0	0.0	0.0	0.0	0.0	31.9	56.4	72.3	240.1	1116.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	27.0	67.4	90.7	249.9	877.1
0.0	65°	0.0	0.0	0.0	0.0	0.0	22.1	79.6	99.2	257.3	698.3
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	20.8	82.1	100.5	260.9	556.2
0.0	70°	0.0	0.0	0.0	0.0	0.0	22.1	80.9	107.8	273.2	452.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	24.5	73.5	118.8	273.2	400.6
0.0	75°	0.0	0.0	0.0	0.0	0.0	25.7	68.6	133.5	248.7	346.7
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	24.5	67.4	155.6	221.7	285.4
0.0	80°	2.5	3.7	3.7	2.5	2.5	20.8	66.2	158.0	188.7	196.0
1.2	82.5°	7.4	9.8	8.6	6.1	6.1	18.4	58.8	132.3	98.0	84.5
7.4	85°	13.5	15.9	15.9	13.5	13.5	17.2	36.8	47.8	33.1	27.0
13.5	87.5°	18.4	20.8	20.8	18.4	18.4	17.2	15.9	14.7	13.5	13.5
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: SP1-2407-184-17

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-950-U-5WQ

Data in this report applies to families of products including GSS-SB1A-950-U-5WQ

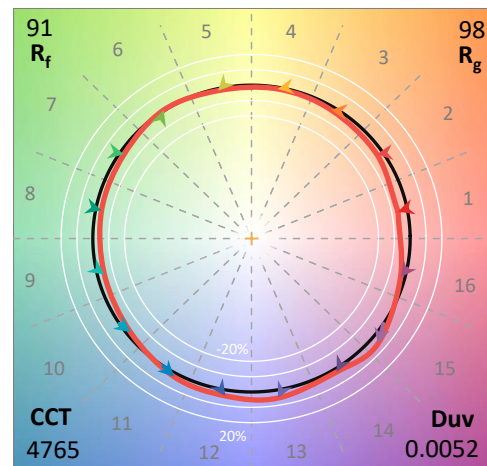
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-17
 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-950-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K): 4765
 CIE u' : 0.2105
 CIE v' : 0.4941
 Duv: 0.0052
 CIE x: 0.3536
 CIE y: 0.3689
 CIE z: 0.2775
 Peak Wavelength (nm): 449
 Dominant Wavelength (nm): 571
 Purity: 16.80041
 R_f: 90.7
 R_g: 98

CRI (Ra): 90.8
 R1: 89.8
 R2: 93.1
 R3: 95.3
 R4: 90.3
 R5: 89.0
 R6: 89.7
 R7: 94.9
 R8: 84.0
 R9: 54.9
 R10: 83.0
 R11: 89.6
 R12: 68.0
 R13: 90.6
 R14: 97.3
 R15: 86.2



Test Conditions

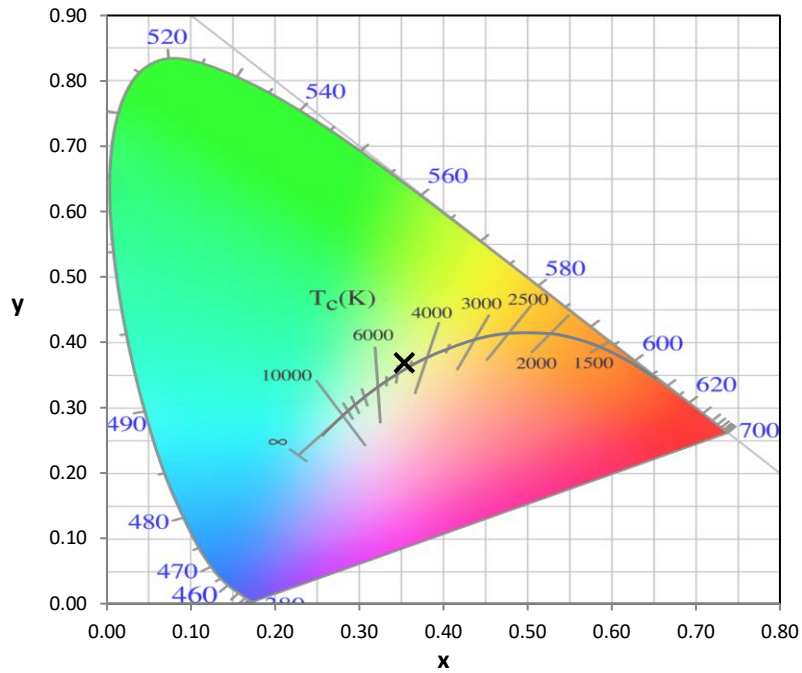
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-17

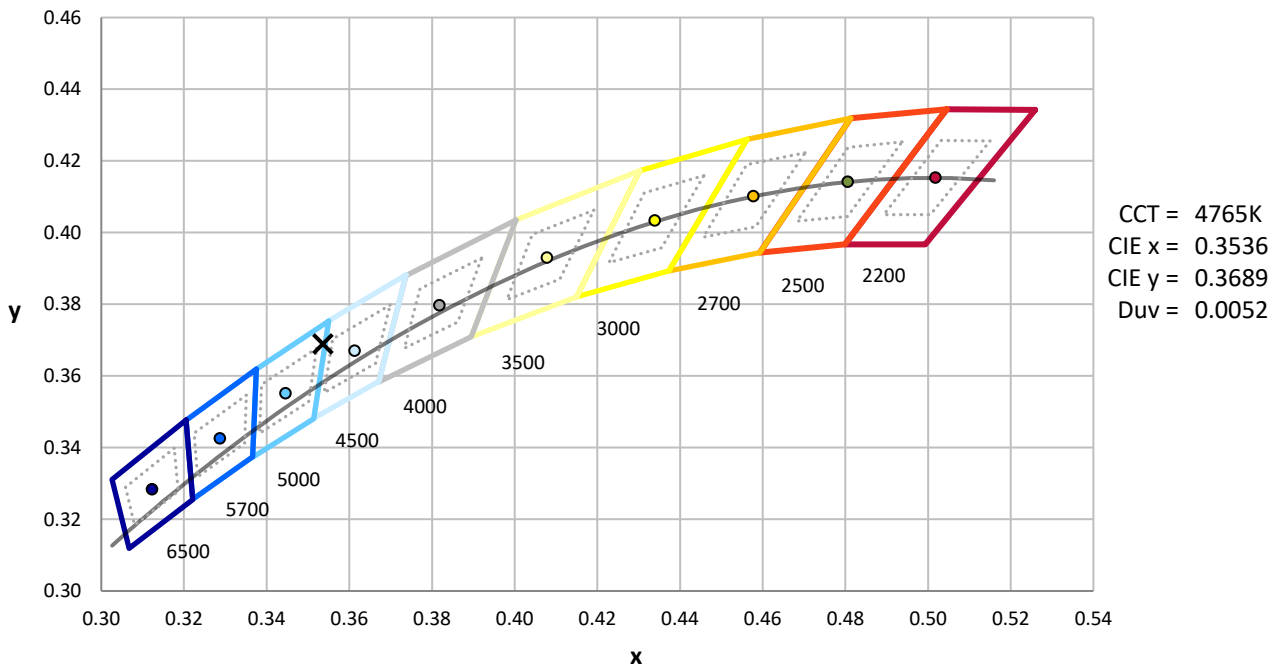
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-17

CIE 1931 Chromaticity Diagram



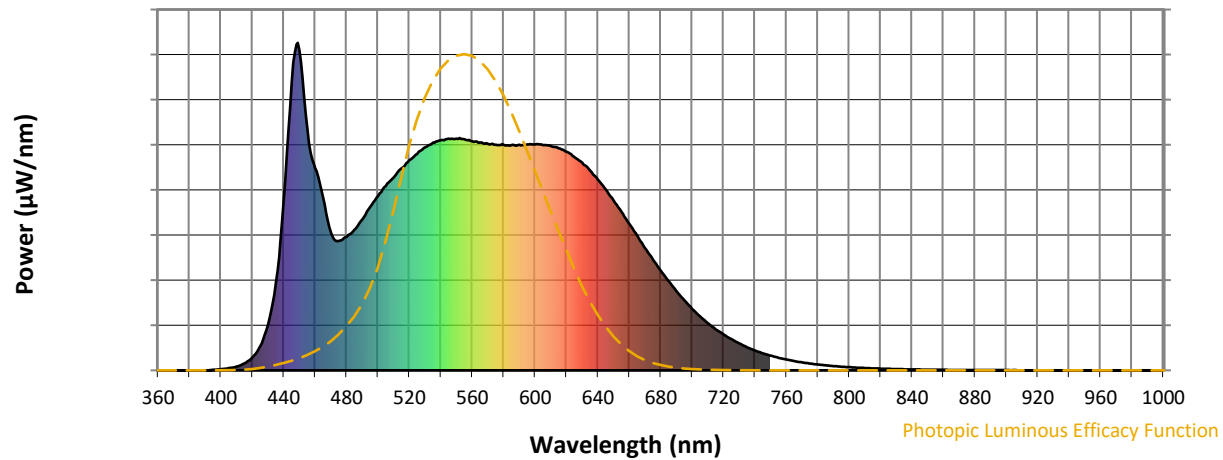
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-17

Photopic Flux vs. Wavelength

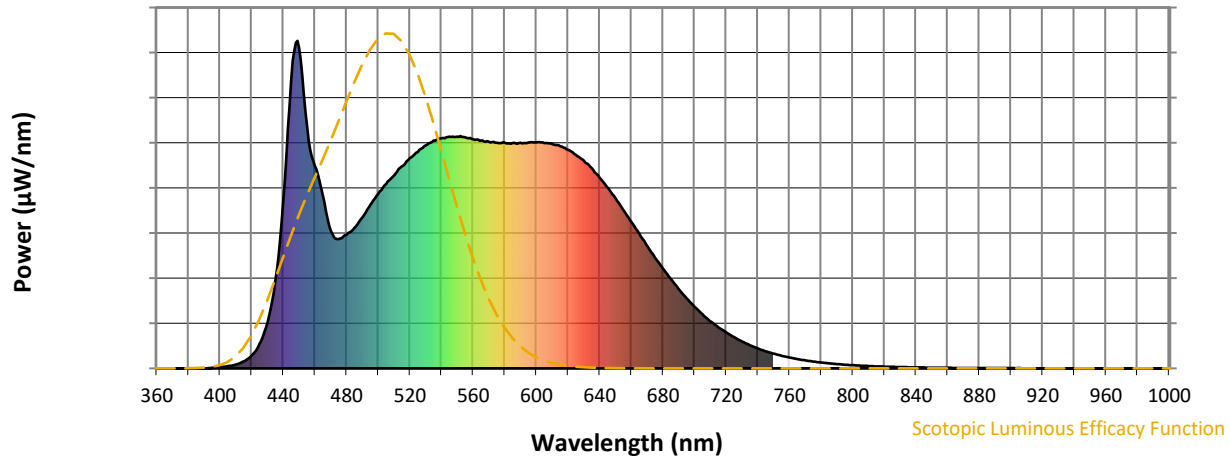


Photopic Lumens: NR

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	462	NR	620	668	NR	750	45	NR	880	1	NR
365	0	NR	495	498	NR	625	652	NR	755	39	NR	885	1	NR
370	0	NR	500	533	NR	630	634	NR	760	33	NR	890	1	NR
375	0	NR	505	562	NR	635	610	NR	765	28	NR	895	1	NR
380	0	NR	510	590	NR	640	583	NR	770	24	NR	900	1	NR
385	0	NR	515	617	NR	645	552	NR	775	21	NR	905	1	NR
390	0	NR	520	642	NR	650	519	NR	780	18	NR	910	0	NR
395	2	NR	525	661	NR	655	484	NR	785	15	NR	915	0	NR
400	4	NR	530	681	NR	660	448	NR	790	13	NR	920	0	NR
405	7	NR	535	695	NR	665	411	NR	795	11	NR	925	0	NR
410	12	NR	540	702	NR	670	373	NR	800	10	NR	930	0	NR
415	21	NR	545	708	NR	675	338	NR	805	8	NR	935	0	NR
420	39	NR	550	707	NR	680	305	NR	810	7	NR	940	0	NR
425	74	NR	555	706	NR	685	272	NR	815	6	NR	945	0	NR
430	139	NR	560	700	NR	690	243	NR	820	5	NR	950	0	NR
435	270	NR	565	696	NR	695	214	NR	825	5	NR	955	0	NR
440	517	NR	570	692	NR	700	188	NR	830	4	NR	960	0	NR
445	877	NR	575	689	NR	705	165	NR	835	3	NR	965	0	NR
450	978	NR	580	688	NR	710	144	NR	840	3	NR	970	0	NR
455	738	NR	585	688	NR	715	125	NR	845	3	NR	975	0	NR
460	618	NR	590	689	NR	720	110	NR	850	2	NR	980	0	NR
465	529	NR	595	690	NR	725	95	NR	855	2	NR	985	0	NR
470	420	NR	600	690	NR	730	82	NR	860	2	NR	990	0	NR
475	395	NR	605	688	NR	735	71	NR	865	1	NR	995	0	NR
480	408	NR	610	685	NR	740	61	NR	870	1	NR	1000	0	NR
485	429	NR	615	678	NR	745	52	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-17

Scotopic Flux vs. Wavelength



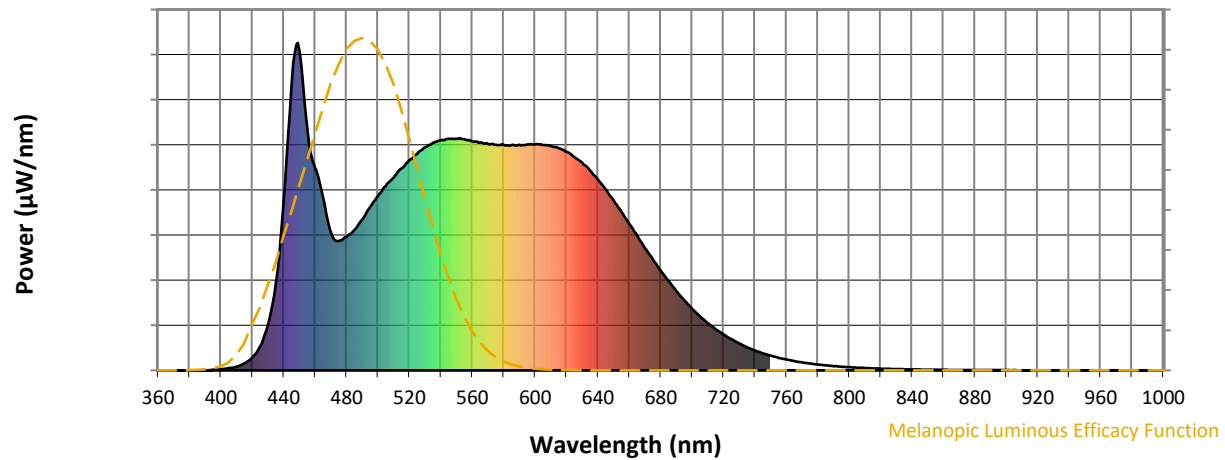
Scotopic Lumens: NR

S/P: 1.99

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	462	NR	620	668	NR	750	45	NR	880	1	NR
365	0	NR	495	498	NR	625	652	NR	755	39	NR	885	1	NR
370	0	NR	500	533	NR	630	634	NR	760	33	NR	890	1	NR
375	0	NR	505	562	NR	635	610	NR	765	28	NR	895	1	NR
380	0	NR	510	590	NR	640	583	NR	770	24	NR	900	1	NR
385	0	NR	515	617	NR	645	552	NR	775	21	NR	905	1	NR
390	0	NR	520	642	NR	650	519	NR	780	18	NR	910	0	NR
395	2	NR	525	661	NR	655	484	NR	785	15	NR	915	0	NR
400	4	NR	530	681	NR	660	448	NR	790	13	NR	920	0	NR
405	7	NR	535	695	NR	665	411	NR	795	11	NR	925	0	NR
410	12	NR	540	702	NR	670	373	NR	800	10	NR	930	0	NR
415	21	NR	545	708	NR	675	338	NR	805	8	NR	935	0	NR
420	39	NR	550	707	NR	680	305	NR	810	7	NR	940	0	NR
425	74	NR	555	706	NR	685	272	NR	815	6	NR	945	0	NR
430	139	NR	560	700	NR	690	243	NR	820	5	NR	950	0	NR
435	270	NR	565	696	NR	695	214	NR	825	5	NR	955	0	NR
440	517	NR	570	692	NR	700	188	NR	830	4	NR	960	0	NR
445	877	NR	575	689	NR	705	165	NR	835	3	NR	965	0	NR
450	978	NR	580	688	NR	710	144	NR	840	3	NR	970	0	NR
455	738	NR	585	688	NR	715	125	NR	845	3	NR	975	0	NR
460	618	NR	590	689	NR	720	110	NR	850	2	NR	980	0	NR
465	529	NR	595	690	NR	725	95	NR	855	2	NR	985	0	NR
470	420	NR	600	690	NR	730	82	NR	860	2	NR	990	0	NR
475	395	NR	605	688	NR	735	71	NR	865	1	NR	995	0	NR
480	408	NR	610	685	NR	740	61	NR	870	1	NR	1000	0	NR
485	429	NR	615	678	NR	745	52	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 4.22

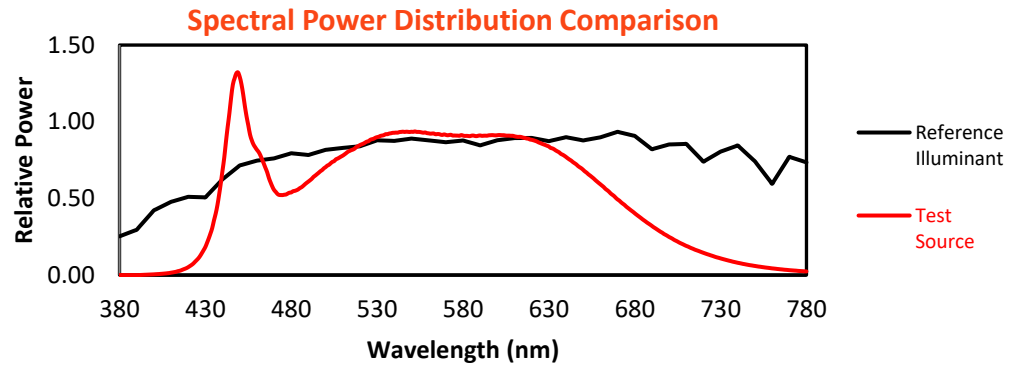
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	462	NR	620	668	NR	750	45	NR	880	1	NR
365	0	NR	495	498	NR	625	652	NR	755	39	NR	885	1	NR
370	0	NR	500	533	NR	630	634	NR	760	33	NR	890	1	NR
375	0	NR	505	562	NR	635	610	NR	765	28	NR	895	1	NR
380	0	NR	510	590	NR	640	583	NR	770	24	NR	900	1	NR
385	0	NR	515	617	NR	645	552	NR	775	21	NR	905	1	NR
390	0	NR	520	642	NR	650	519	NR	780	18	NR	910	0	NR
395	2	NR	525	661	NR	655	484	NR	785	15	NR	915	0	NR
400	4	NR	530	681	NR	660	448	NR	790	13	NR	920	0	NR
405	7	NR	535	695	NR	665	411	NR	795	11	NR	925	0	NR
410	12	NR	540	702	NR	670	373	NR	800	10	NR	930	0	NR
415	21	NR	545	708	NR	675	338	NR	805	8	NR	935	0	NR
420	39	NR	550	707	NR	680	305	NR	810	7	NR	940	0	NR
425	74	NR	555	706	NR	685	272	NR	815	6	NR	945	0	NR
430	139	NR	560	700	NR	690	243	NR	820	5	NR	950	0	NR
435	270	NR	565	696	NR	695	214	NR	825	5	NR	955	0	NR
440	517	NR	570	692	NR	700	188	NR	830	4	NR	960	0	NR
445	877	NR	575	689	NR	705	165	NR	835	3	NR	965	0	NR
450	978	NR	580	688	NR	710	144	NR	840	3	NR	970	0	NR
455	738	NR	585	688	NR	715	125	NR	845	3	NR	975	0	NR
460	618	NR	590	689	NR	720	110	NR	850	2	NR	980	0	NR
465	529	NR	595	690	NR	725	95	NR	855	2	NR	985	0	NR
470	420	NR	600	690	NR	730	82	NR	860	2	NR	990	0	NR
475	395	NR	605	688	NR	735	71	NR	865	1	NR	995	0	NR
480	408	NR	610	685	NR	740	61	NR	870	1	NR	1000	0	NR
485	429	NR	615	678	NR	745	52	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-17

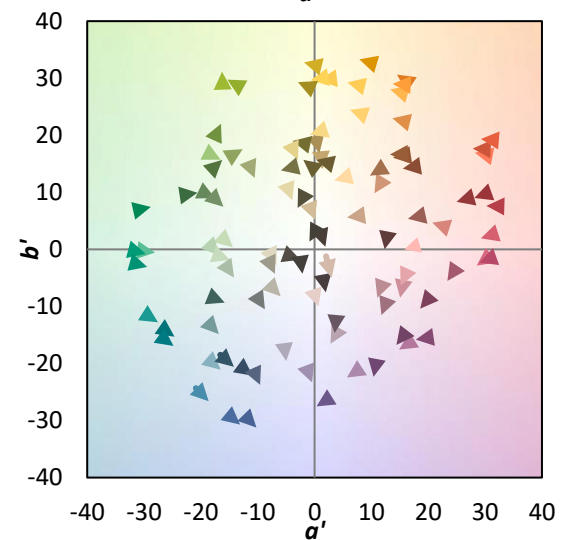
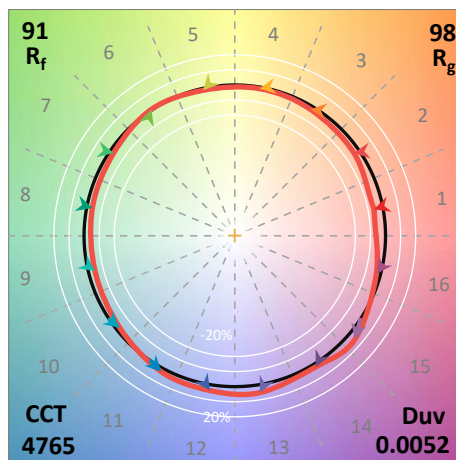
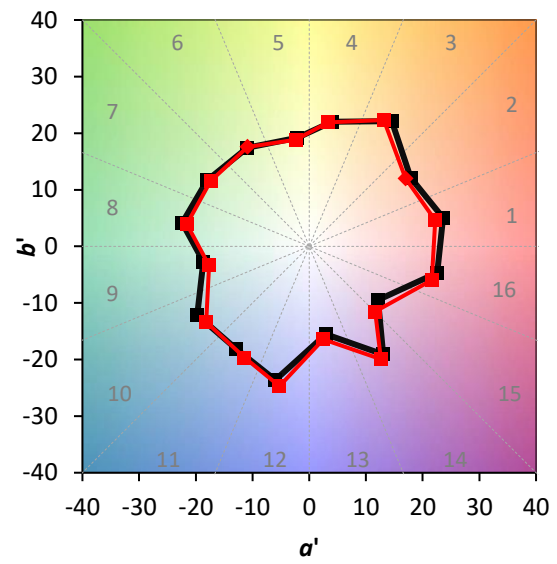
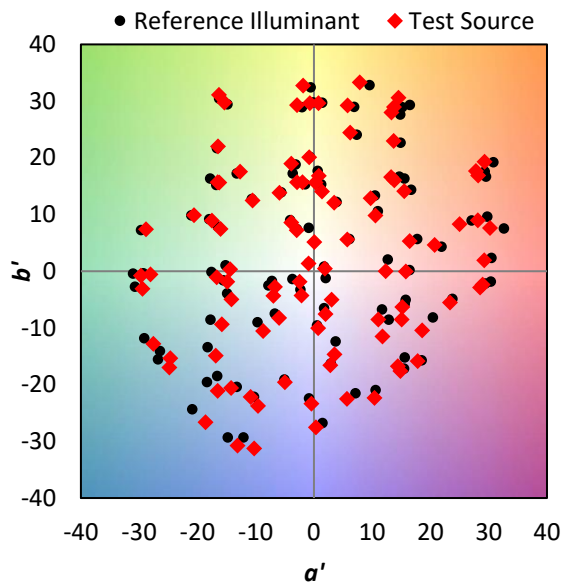
TM-30-18

Summary

$R_f = 90.7$
 $R_g = 98$
 CIE $R_a = 90.8$
 $R_9 = 54.9$

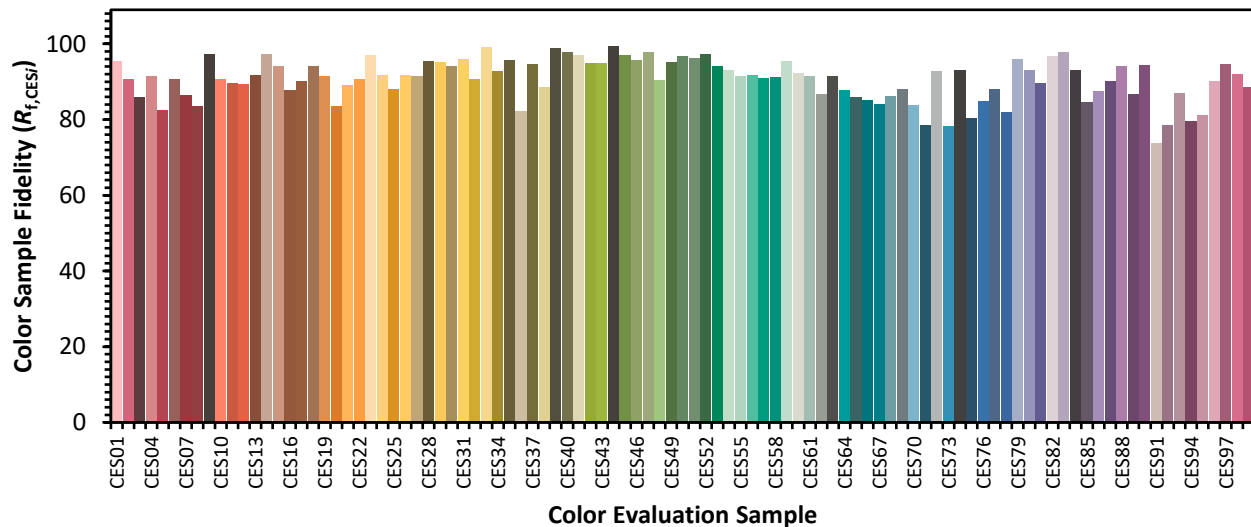


Color Vector Graphics

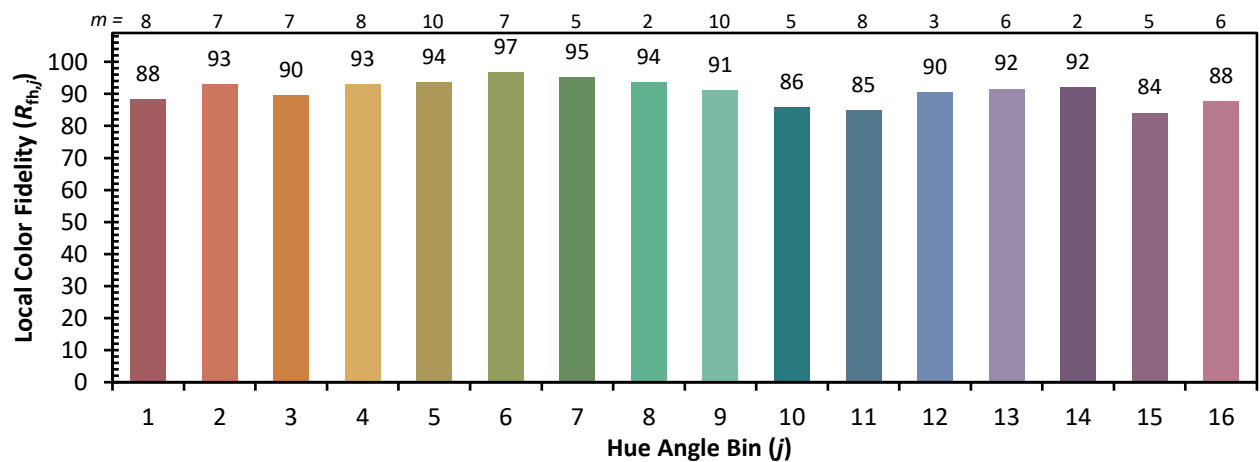
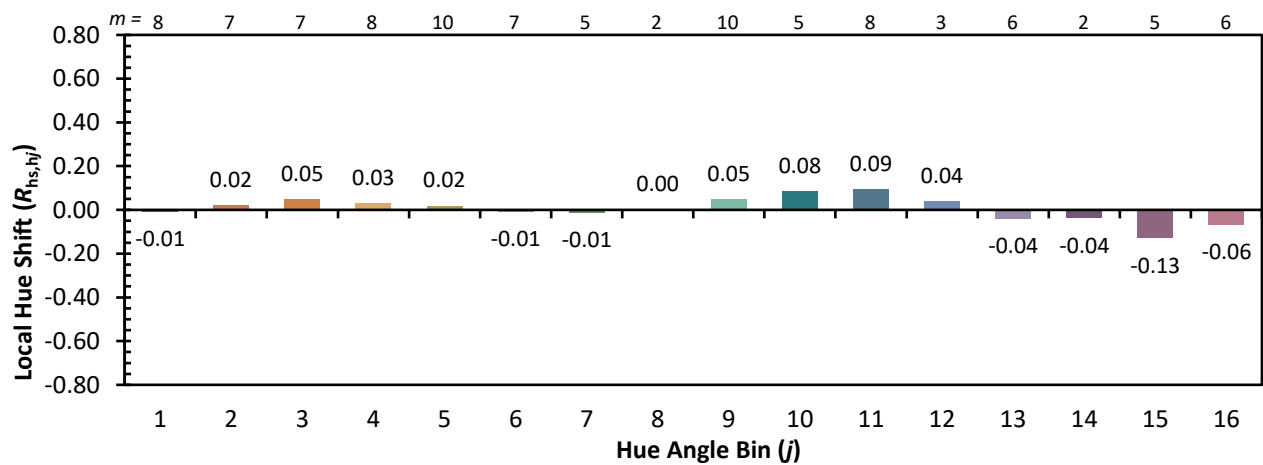
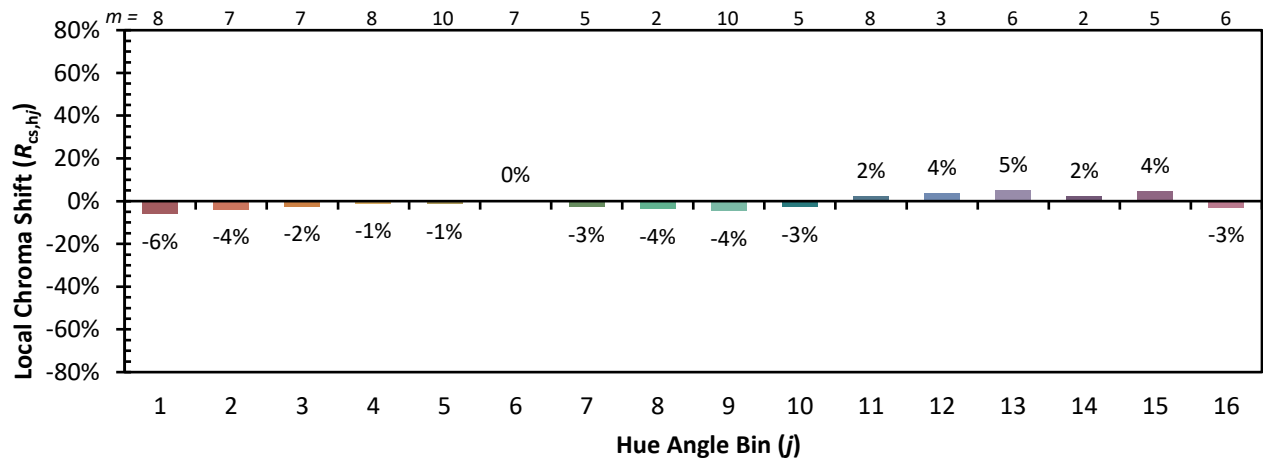


Individual Sample Fidelity Index ($R_{f,i}$)

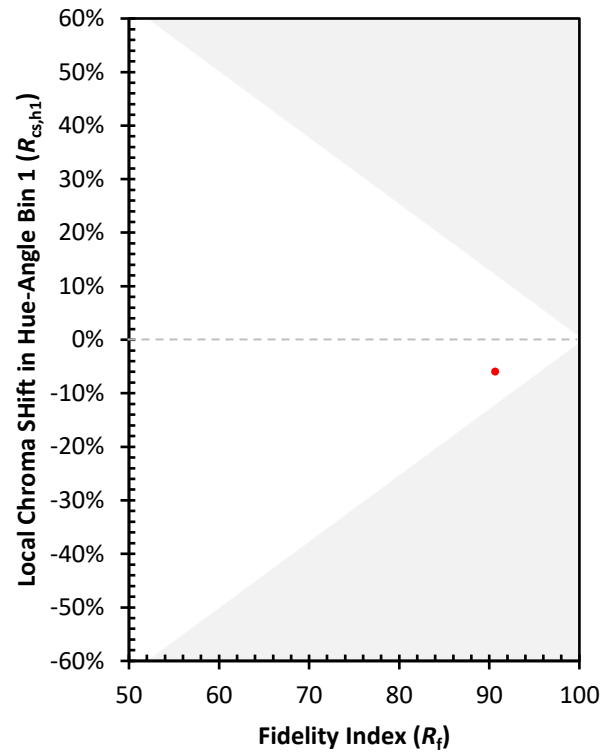
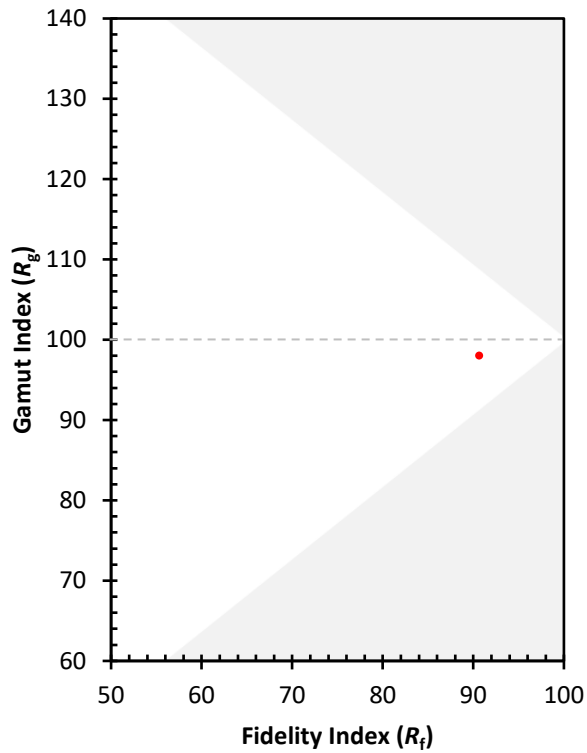
CES01 = 85	CES26 = 92	CES51 = 96	CES76 = 85
CES02 = 60	CES27 = 92	CES52 = 97	CES77 = 88
CES03 = 31	CES28 = 95	CES53 = 94	CES78 = 82
CES04 = 69	CES29 = 95	CES54 = 93	CES79 = 96
CES05 = 48	CES30 = 94	CES55 = 92	CES80 = 93
CES06 = 50	CES31 = 96	CES56 = 92	CES81 = 89
CES07 = 41	CES32 = 91	CES57 = 91	CES82 = 97
CES08 = 40	CES33 = 99	CES58 = 91	CES83 = 98
CES09 = 29	CES34 = 93	CES59 = 95	CES84 = 93
CES10 = 73	CES35 = 96	CES60 = 92	CES85 = 85
CES11 = 56	CES36 = 82	CES61 = 92	CES86 = 88
CES12 = 62	CES37 = 95	CES62 = 87	CES87 = 90
CES13 = 42	CES38 = 89	CES63 = 91	CES88 = 94
CES14 = 74	CES39 = 99	CES64 = 88	CES89 = 87
CES15 = 71	CES40 = 98	CES65 = 86	CES90 = 94
CES16 = 46	CES41 = 97	CES66 = 85	CES91 = 74
CES17 = 48	CES42 = 95	CES67 = 84	CES92 = 78
CES18 = 56	CES43 = 95	CES68 = 86	CES93 = 87
CES19 = 70	CES44 = 100	CES69 = 88	CES94 = 80
CES20 = 65	CES45 = 97	CES70 = 84	CES95 = 81
CES21 = 85	CES46 = 96	CES71 = 79	CES96 = 90
CES22 = 77	CES47 = 98	CES72 = 93	CES97 = 95
CES23 = 91	CES48 = 90	CES73 = 78	CES98 = 92
CES24 = 90	CES49 = 95	CES74 = 93	CES99 = 88
CES25 = 70	CES50 = 97	CES75 = 80	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)