

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: P1049921

Luminaire Tested: **GALN-SA8A-927-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049921
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-927-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 8xLight Square PACKAGE
90CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (112) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16293.1 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 217.6
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

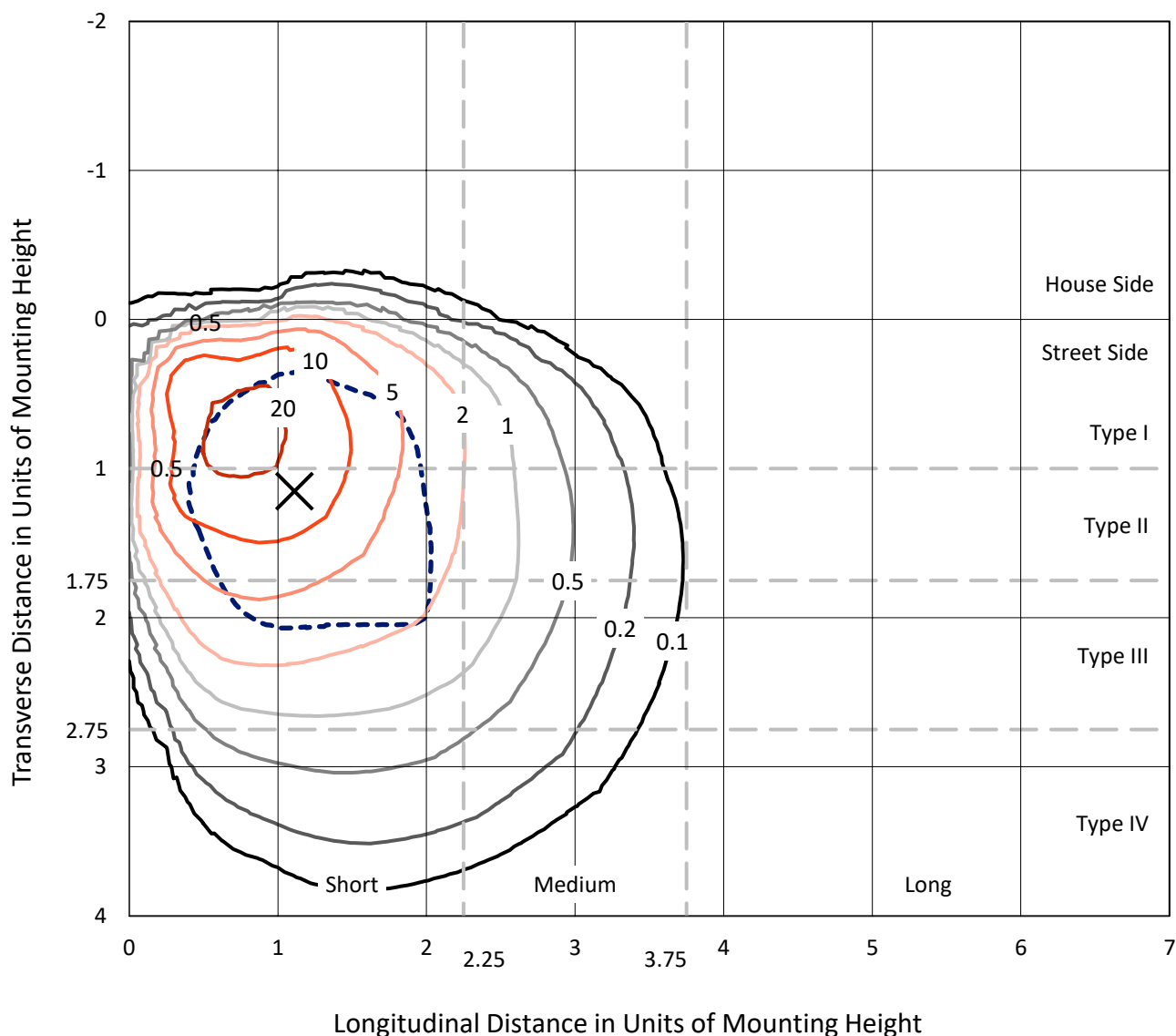
REPORT NUMBER: P1049921

CATALOG NUMBER: GALN-SA8A-927-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

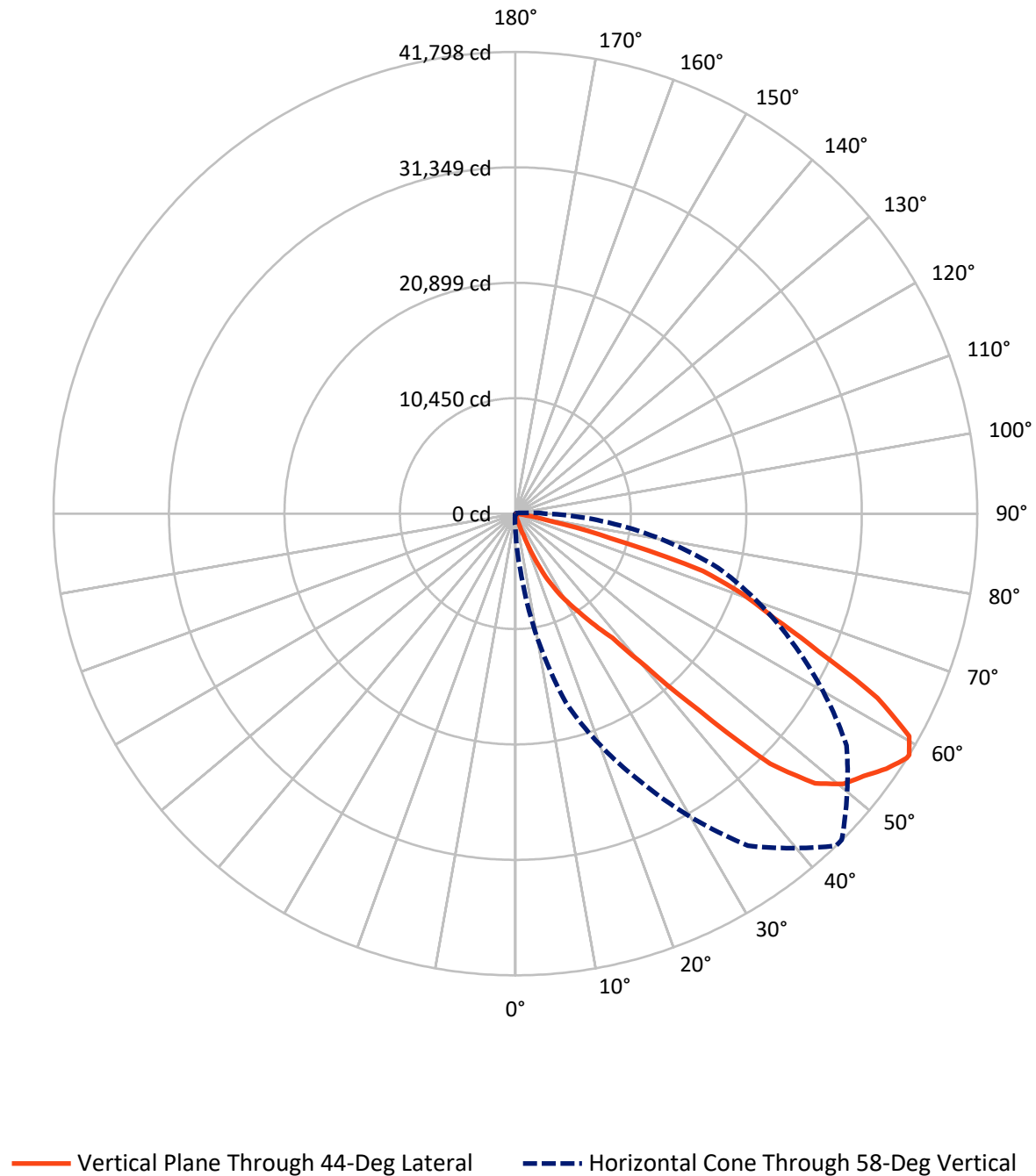


Based on 20 foot mounting height. Maximum calculated value = 28.4 fc

Type III - Short - N/A

REPORT NUMBER: P1049921
CATALOG NUMBER: GALN-SA8A-927-U-LBC

Luminous Intensity Polar Plot



REPORT NUMBER: P1049921

CATALOG NUMBER: GALN-SA8A-927-U-LBC

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	111.3	0.0	111.3
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	16181.8	0.0	16181.8
	% Fixture	99.3	0.0	99.3
Total	Lumens	16293.1	0.0	16293.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.4	0.0
10°-20°	35.7	0.2
20°-30°	386.0	2.4
30°-40°	1141.5	7.0
40°-50°	3402.3	20.9
50°-60°	5398.5	33.1
60°-70°	4503.0	27.6
70°-80°	1388.8	8.5
80°-90°	30.8	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°	16293.1	100.0
0°-180°	16293.1	100.0

Coefficient of Utilization



REPORT NUMBER: P1049921

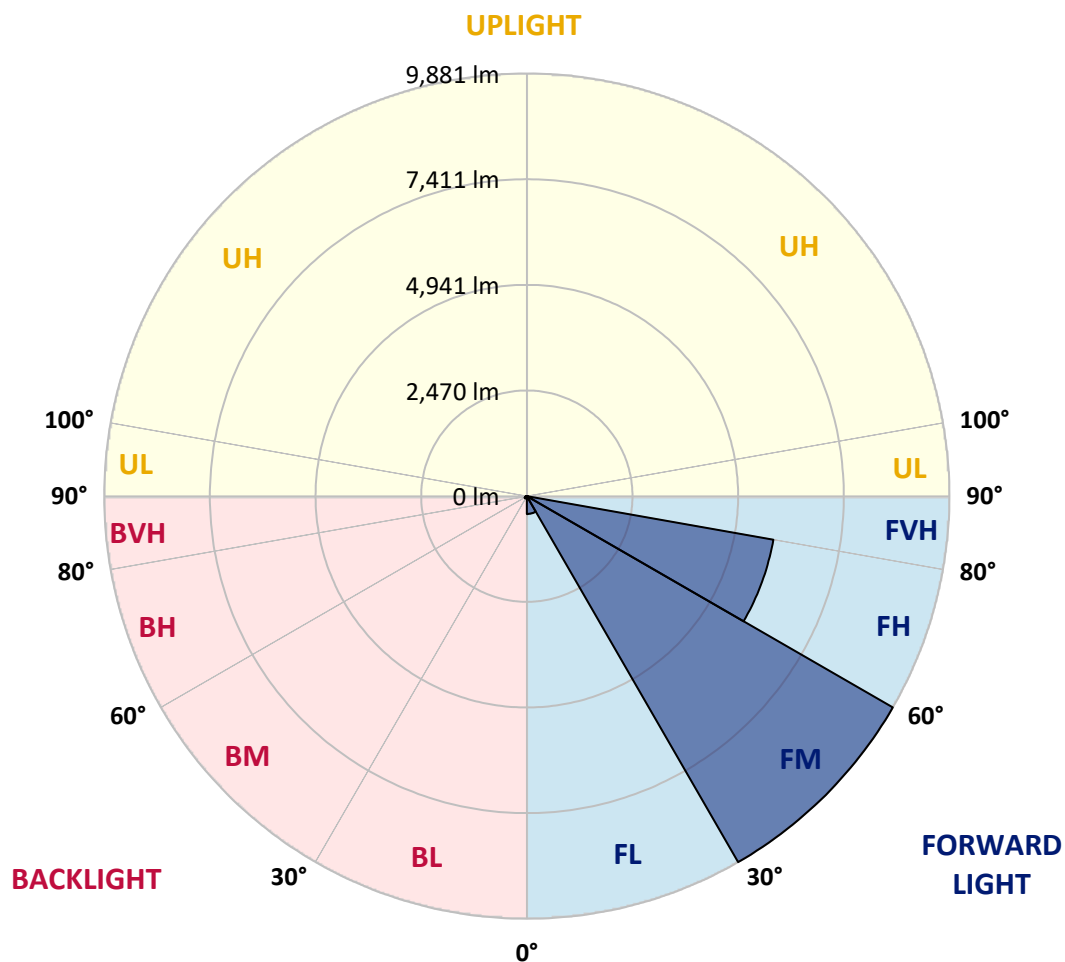
CATALOG NUMBER: GALN-SA8A-927-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	417.2	2.6			
FM	(30°-60°)	9881.4	60.6			
FH	(60°-80°)	5853.9	35.9			G3/7500
FVH	(80°-90°)	29.4	0.2			G1/100
BL	(0°-30°)	10.9	0.1	B0/110		
BM	(30°-60°)	60.9	0.4	B0/220		
BH	(60°-80°)	38.0	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



REPORT NUMBER: P1049921

CATALOG NUMBER: GALN-SA8A-927-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
2.5°	92.3	92.3	88.6	83.7	78.8	73.8	72.6	70.2	68.9	67.7
5°	96.0	96.0	94.8	91.1	86.2	82.5	82.5	78.8	76.3	73.8
7.5°	98.5	99.7	102.2	100.9	98.5	94.8	94.8	92.3	88.6	82.5
10°	102.2	105.8	110.8	113.2	114.5	114.5	113.2	112.0	105.8	97.2
12.5°	105.8	113.2	125.5	137.8	145.2	155.1	153.9	151.4	135.4	116.9
15°	113.2	124.3	150.2	185.9	241.2	275.7	289.2	276.9	224.0	157.5
17.5°	121.8	140.3	217.9	388.9	637.6	755.7	827.1	769.3	509.6	299.1
20°	130.5	171.1	404.9	1008.0	1654.2	2040.7	2147.7	1980.4	1271.4	569.9
22.5°	145.2	240.0	820.9	2083.7	3564.4	4144.1	4253.7	3718.3	2401.3	1125.0
25°	176.0	348.3	1415.4	3395.8	5319.5	6298.0	6252.5	5550.9	3895.5	1797.0
27.5°	220.3	507.1	2140.4	4824.7	7000.8	7863.6	7967.0	7099.3	5192.8	2642.5
30°	284.3	702.8	2918.2	5969.4	8348.5	9281.5	9298.7	8401.5	6353.4	3384.7
32.5°	345.9	887.4	3598.9	7075.9	9676.6	10699.4	10775.7	9671.6	7219.9	4157.6
35°	392.6	1008.0	4288.1	8048.2	11015.7	12424.9	12420.0	11109.2	8246.4	4848.1
37.5°	396.3	1128.6	4912.1	9042.7	12711.7	14289.6	14445.9	13001.0	9487.0	5702.3
40°	387.7	1264.0	5702.3	10593.5	15767.8	18188.8	18326.6	16505.1	11975.7	7164.5
42.5°	397.5	1499.1	6984.8	13457.6	20842.4	24319.4	24585.3	22670.1	16550.6	10148.0
45°	449.2	1941.0	9671.6	18249.1	28075.8	32314.7	32226.1	29467.9	21873.8	14689.6
47.5°	620.3	3022.8	13654.5	22912.6	32698.7	36473.6	36549.9	33178.7	24980.4	18181.4
50°	953.9	4625.4	17001.1	25377.9	34686.5	38473.6	38402.3	34506.8	26160.7	19900.8
52.5°	1240.6	5784.8	18679.9	26243.2	34941.2	39462.0	39457.0	34856.3	26344.1	20048.5
55°	1312.0	5872.2	18693.4	26289.9	35512.3	40755.5	40918.0	35716.6	26581.6	19403.6
57.5°	1283.7	5198.9	17913.1	26560.7	36529.0	41756.2	41764.8	36549.9	27184.7	19008.5
58°	1259.1	5093.1	17755.5	26714.6	36703.7	41798.0	41777.1	36588.1	27675.8	18993.7
60°	1121.3	4422.3	17141.4	27107.2	36444.0	40938.9	40743.2	35754.8	27603.2	18842.3
62.5°	881.3	3449.9	16537.1	26653.0	33660.0	36780.1	36861.3	31655.0	25163.7	17959.9
65°	701.6	2571.1	15276.7	23379.1	27717.7	30203.9	30506.7	25741.0	21003.6	15207.8
67.5°	558.8	1858.5	12815.1	18613.4	21932.9	25208.1	25428.4	21611.7	16272.4	11652.0
70°	454.2	1256.6	8845.8	13612.7	18090.3	21772.9	21786.4	17953.7	12145.6	7634.7
72.5°	402.5	870.2	5134.9	9927.6	14668.7	17742.0	17383.8	14569.0	9334.4	4522.0
75°	348.3	577.2	2518.2	6069.1	8893.8	8954.1	9090.7	6758.3	4666.0	2150.2
77.5°	286.8	409.9	992.0	1657.9	2667.1	3414.2	3541.0	2683.1	1552.0	529.2
80°	196.9	194.5	267.1	508.3	763.1	956.3	892.3	690.5	406.2	203.1
82.5°	84.9	92.3	120.6	145.2	118.2	114.5	109.5	70.2	54.2	41.8
85°	27.1	24.6	25.8	25.8	20.9	16.0	16.0	7.4	0.0	0.0
87.5°	13.5	11.1	11.1	9.8	6.2	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



REPORT NUMBER: P1049921

CATALOG NUMBER: GALN-SA8A-927-U-LBC

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
71.4	0°	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
66.5	2.5°	65.2	65.2	62.8	60.3	59.1	56.6	55.4	54.2	52.9	51.7
71.4	5°	68.9	67.7	64.0	60.3	56.6	52.9	50.5	48.0	45.5	44.3
78.8	7.5°	75.1	72.6	65.2	59.1	54.2	49.2	46.8	43.1	40.6	36.9
87.4	10°	82.5	77.5	67.7	60.3	52.9	46.8	43.1	39.4	35.7	30.8
99.7	12.5°	92.3	83.7	71.4	59.1	50.5	43.1	39.4	34.5	30.8	27.1
115.7	15°	100.9	89.8	72.6	59.1	48.0	39.4	34.5	29.5	25.8	20.9
145.2	17.5°	113.2	94.8	71.4	55.4	44.3	34.5	29.5	25.8	19.7	12.3
215.4	20°	134.2	98.5	68.9	51.7	38.2	28.3	22.2	17.2	8.6	2.5
323.7	22.5°	167.4	108.3	66.5	46.8	33.2	22.2	14.8	6.2	0.0	0.0
492.3	25°	231.4	125.5	66.5	44.3	29.5	16.0	4.9	0.0	0.0	0.0
699.1	27.5°	307.7	148.9	66.5	38.2	23.4	8.6	0.0	0.0	0.0	0.0
952.6	30°	385.2	174.8	66.5	33.2	18.5	1.2	0.0	0.0	0.0	0.0
1173.0	32.5°	459.1	196.9	67.7	28.3	12.3	0.0	0.0	0.0	0.0	0.0
1478.2	35°	534.2	200.6	66.5	24.6	7.4	0.0	0.0	0.0	0.0	0.0
1852.4	37.5°	630.2	193.2	62.8	22.2	3.7	0.0	0.0	0.0	0.0	0.0
2437.0	40°	775.4	196.9	59.1	20.9	1.2	0.0	0.0	0.0	0.0	0.0
3479.5	42.5°	1043.7	212.9	54.2	20.9	0.0	0.0	0.0	0.0	0.0	0.0
5542.3	45°	1804.4	285.5	49.2	22.2	0.0	0.0	0.0	0.0	0.0	0.0
8320.2	47.5°	2984.7	513.2	48.0	22.2	0.0	0.0	0.0	0.0	0.0	0.0
10022.4	50°	3809.3	646.2	50.5	23.4	0.0	0.0	0.0	0.0	0.0	0.0
10235.3	52.5°	3803.2	720.0	52.9	24.6	4.9	0.0	0.0	0.0	0.0	0.0
9434.1	55°	3381.0	733.6	56.6	27.1	16.0	0.0	0.0	0.0	0.0	0.0
8107.3	57.5°	2825.9	669.6	65.2	33.2	29.5	0.0	0.0	0.0	0.0	0.0
7899.3	58°	2727.5	640.0	67.7	34.5	32.0	0.0	0.0	0.0	0.0	0.0
6851.9	60°	2235.1	521.9	86.2	43.1	43.1	0.0	0.0	0.0	0.0	0.0
5617.4	62.5°	1543.4	455.4	98.5	55.4	44.3	0.0	0.0	0.0	0.0	0.0
4141.6	65°	1091.7	411.1	107.1	59.1	35.7	0.0	0.0	0.0	0.0	0.0
2942.8	67.5°	816.0	379.1	118.2	60.3	18.5	0.0	0.0	0.0	0.0	0.0
1846.2	70°	625.2	355.7	145.2	64.0	4.9	0.0	0.0	0.0	0.0	0.0
1100.3	72.5°	509.6	328.6	176.0	66.5	0.0	0.0	0.0	0.0	0.0	0.0
659.7	75°	422.2	296.6	169.9	72.6	0.0	0.0	0.0	0.0	0.0	0.0
352.0	77.5°	280.6	230.2	155.1	72.6	0.0	0.0	0.0	0.0	0.0	0.0
125.5	80°	98.5	91.1	120.6	64.0	0.0	0.0	0.0	0.0	0.0	0.0
25.8	82.5°	14.8	12.3	17.2	22.2	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

REPORT NUMBER: P1049921

CATALOG NUMBER: GALN-SA8A-927-U-LBC

CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
71.4	0°	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
50.5	2.5°	50.5	50.5	49.2	50.5	50.5	52.9	59.1	67.7	77.5	81.2
43.1	5°	41.8	40.6	39.4	39.4	39.4	43.1	48.0	57.8	68.9	73.8
35.7	7.5°	34.5	33.2	32.0	30.8	30.8	33.2	39.4	50.5	61.5	66.5
29.5	10°	28.3	25.8	24.6	23.4	23.4	25.8	32.0	43.1	55.4	60.3
24.6	12.5°	23.4	19.7	17.2	16.0	14.8	18.5	24.6	34.5	48.0	54.2
18.5	15°	16.0	12.3	8.6	7.4	6.2	9.8	16.0	27.1	40.6	48.0
9.8	17.5°	8.6	3.7	1.2	0.0	0.0	2.5	7.4	19.7	33.2	39.4
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.8	24.6	30.8
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	14.8	20.9
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	11.1
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



REPORT NUMBER: P1049921

CATALOG NUMBER: GALN-SA8A-927-U-LBC

CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
71.4	0°	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
84.9	2.5°	87.4	86.2	83.7	81.2	81.2	81.2	84.9	88.6	92.3	92.3
76.3	5°	81.2	81.2	80.0	77.5	77.5	78.8	83.7	89.8	94.8	96.0
70.2	7.5°	75.1	77.5	75.1	73.8	75.1	76.3	81.2	88.6	96.0	98.5
65.2	10°	71.4	72.6	72.6	71.4	71.4	73.8	78.8	88.6	98.5	102.2
59.1	12.5°	66.5	68.9	67.7	67.7	67.7	70.2	76.3	87.4	100.9	105.8
52.9	15°	61.5	65.2	65.2	64.0	64.0	65.2	73.8	86.2	104.6	113.2
45.5	17.5°	56.6	60.3	61.5	59.1	59.1	61.5	70.2	86.2	107.1	121.8
36.9	20°	46.8	52.9	56.6	52.9	52.9	55.4	64.0	81.2	108.3	130.5
27.1	22.5°	36.9	43.1	48.0	46.8	46.8	48.0	59.1	77.5	109.5	145.2
16.0	25°	27.1	33.2	36.9	39.4	39.4	43.1	54.2	75.1	114.5	176.0
7.4	27.5°	16.0	23.4	28.3	30.8	32.0	36.9	50.5	72.6	123.1	220.3
0.0	30°	7.4	13.5	19.7	24.6	24.6	33.2	46.8	70.2	134.2	284.3
0.0	32.5°	0.0	6.2	9.8	17.2	18.5	27.1	43.1	67.7	150.2	345.9
0.0	35°	0.0	0.0	4.9	13.5	13.5	22.2	39.4	65.2	174.8	392.6
0.0	37.5°	0.0	0.0	0.0	9.8	11.1	19.7	38.2	64.0	179.7	396.3
0.0	40°	0.0	0.0	0.0	7.4	8.6	18.5	38.2	65.2	162.5	387.7
0.0	42.5°	0.0	0.0	0.0	4.9	6.2	18.5	38.2	67.7	146.5	397.5
0.0	45°	0.0	0.0	0.0	3.7	4.9	19.7	36.9	66.5	137.8	449.2
0.0	47.5°	0.0	0.0	0.0	4.9	7.4	19.7	35.7	65.2	139.1	620.3
0.0	50°	0.0	0.0	0.0	6.2	8.6	19.7	36.9	62.8	152.6	953.9
0.0	52.5°	0.0	0.0	0.0	4.9	7.4	22.2	40.6	61.5	166.2	1240.6
0.0	55°	0.0	0.0	0.0	1.2	3.7	28.3	44.3	61.5	187.1	1312.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	32.0	50.5	65.2	221.5	1283.7
0.0	58°	0.0	0.0	0.0	0.0	0.0	32.0	51.7	65.2	224.0	1259.1
0.0	60°	0.0	0.0	0.0	0.0	0.0	32.0	56.6	72.6	241.2	1121.3
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	27.1	67.7	91.1	251.1	881.3
0.0	65°	0.0	0.0	0.0	0.0	0.0	22.2	80.0	99.7	258.5	701.6
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	20.9	82.5	100.9	262.2	558.8
0.0	70°	0.0	0.0	0.0	0.0	0.0	22.2	81.2	108.3	274.5	454.2
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	24.6	73.8	119.4	274.5	402.5
0.0	75°	0.0	0.0	0.0	0.0	0.0	25.8	68.9	134.2	249.9	348.3
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	24.6	67.7	156.3	222.8	286.8
0.0	80°	2.5	3.7	3.7	2.5	2.5	20.9	66.5	158.8	189.5	196.9
1.2	82.5°	7.4	9.8	8.6	6.2	6.2	18.5	59.1	132.9	98.5	84.9
7.4	85°	13.5	16.0	16.0	13.5	13.5	17.2	36.9	48.0	33.2	27.1
13.5	87.5°	18.5	20.9	20.9	18.5	18.5	17.2	16.0	14.8	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



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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

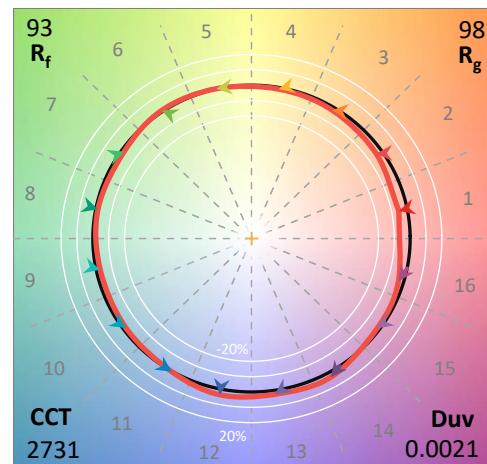
Test Information

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

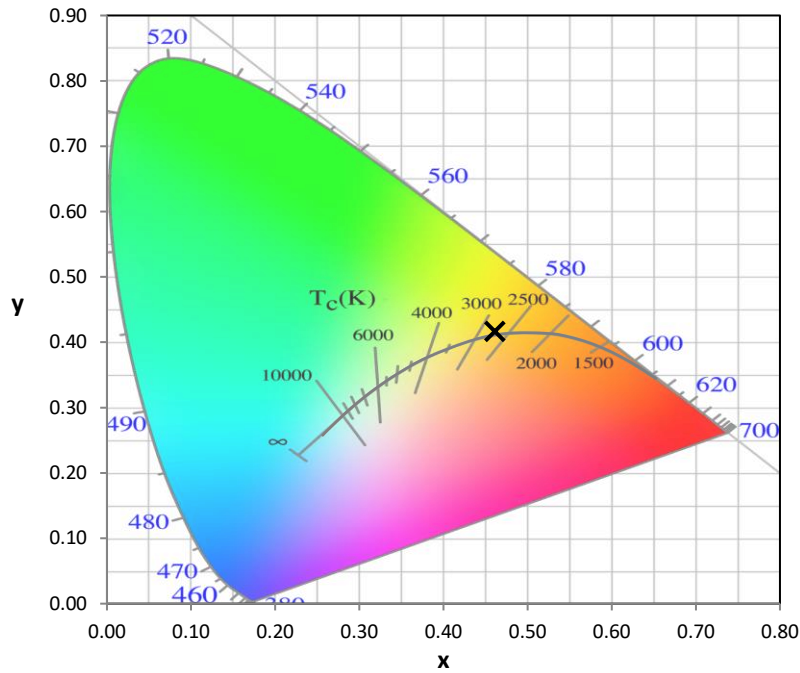
Stabilization Time: M
 Operation Time: 1H 0M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-13

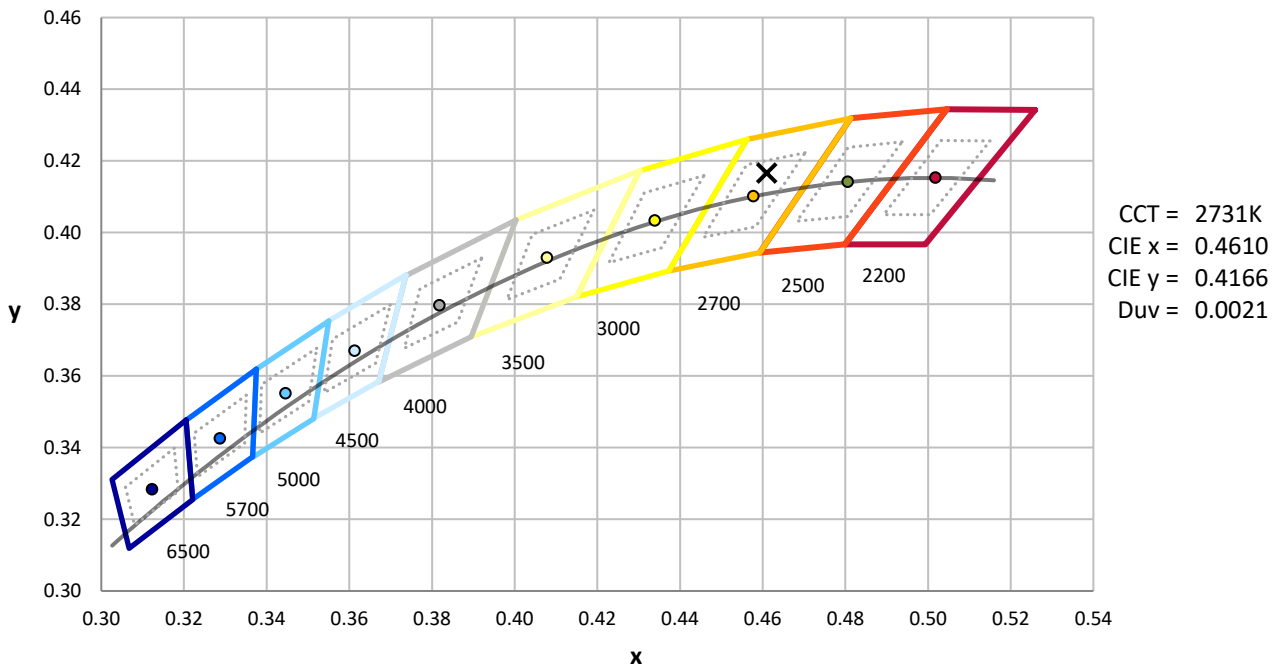
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



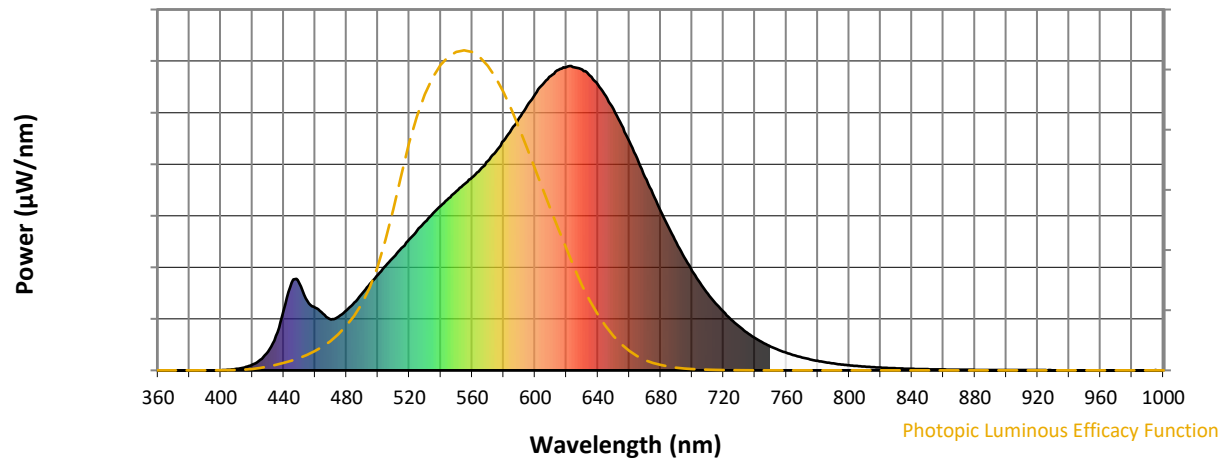
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-13

Photopic Flux vs. Wavelength

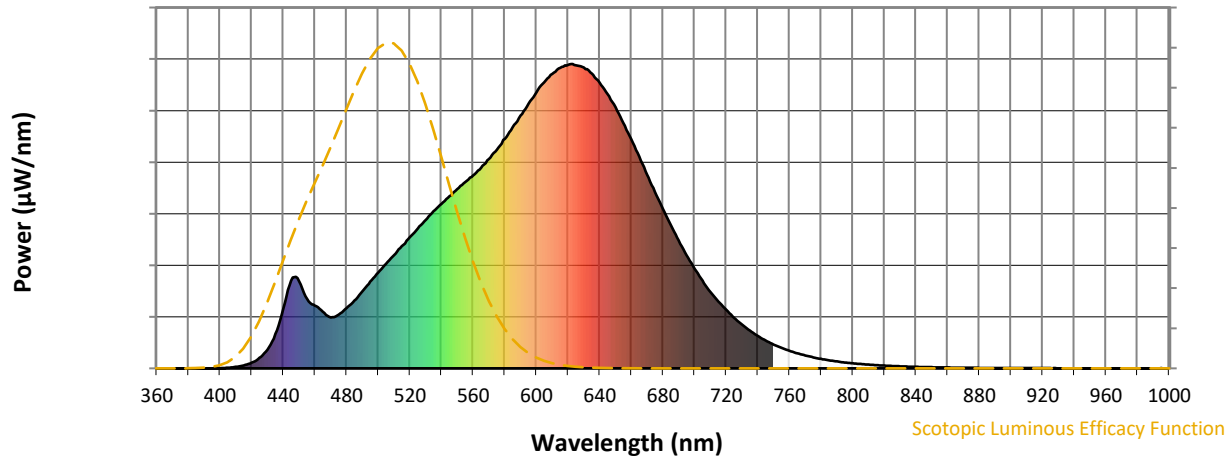


Photopic Lumens: NR

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

Scotopic Flux vs. Wavelength



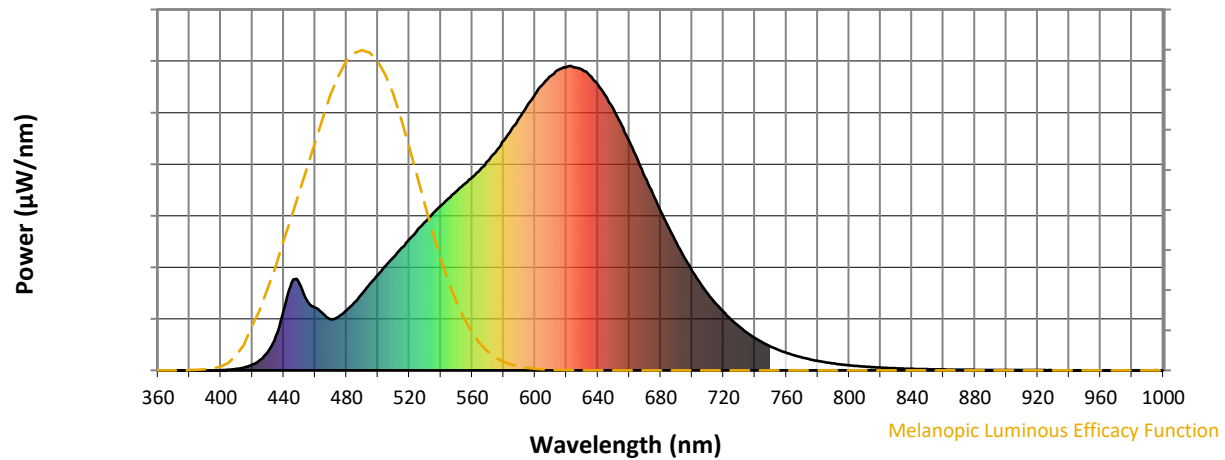
Scotopic Lumens: NR

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			

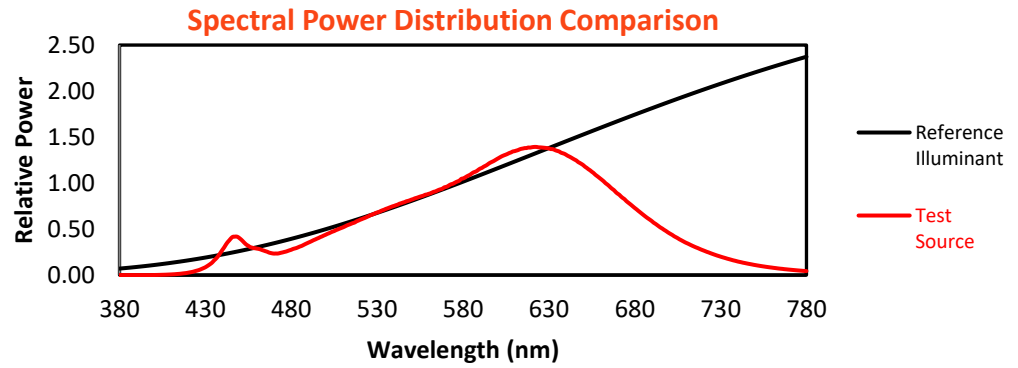
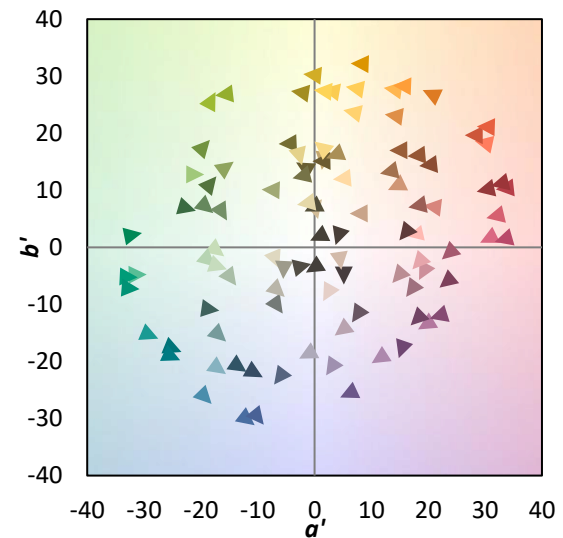
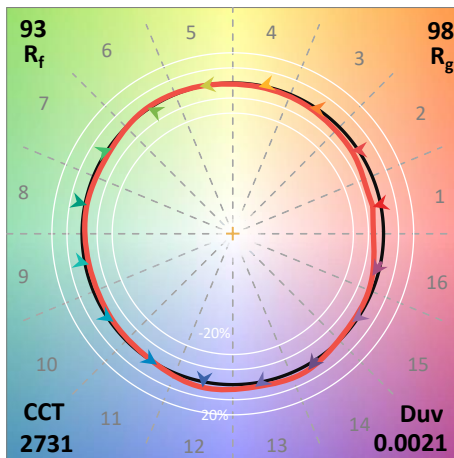
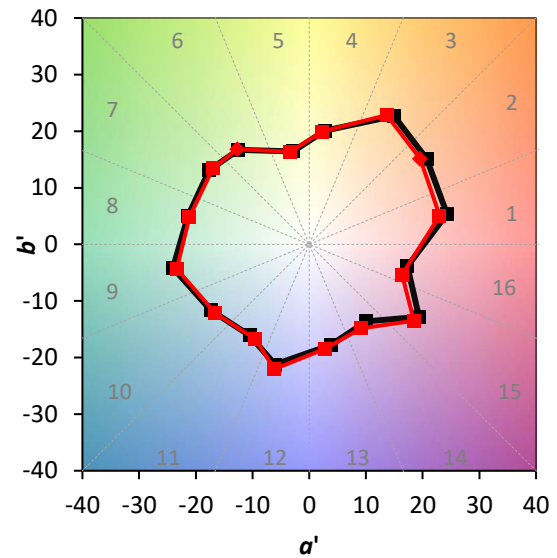
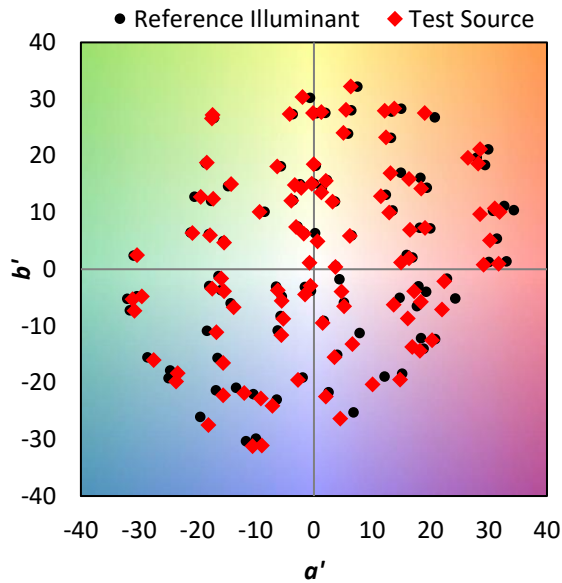
REPORT NUMBER: SP1-2407-184-13

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.38

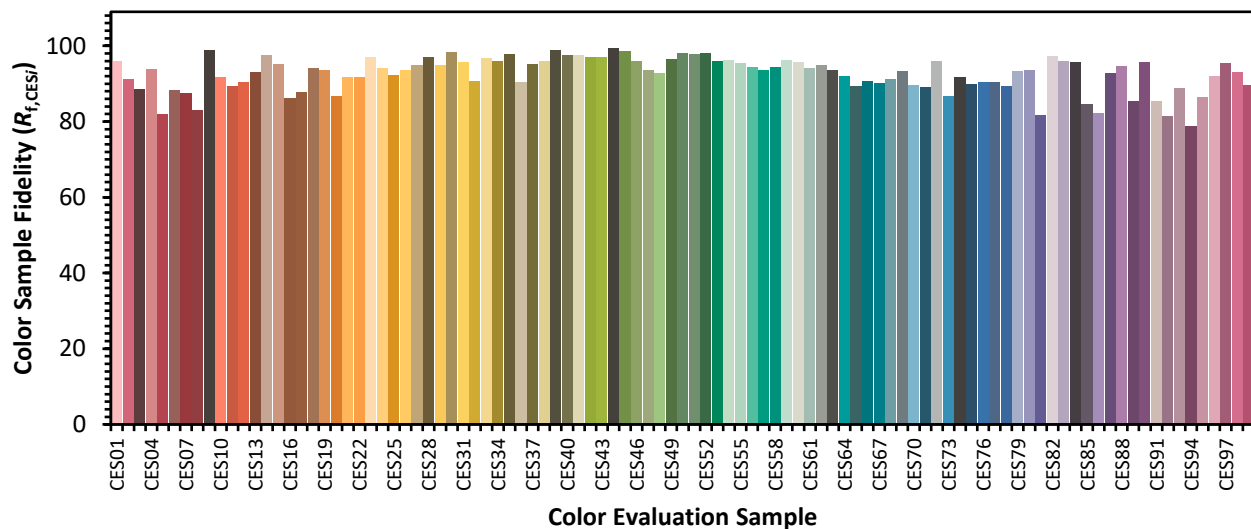
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	253	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

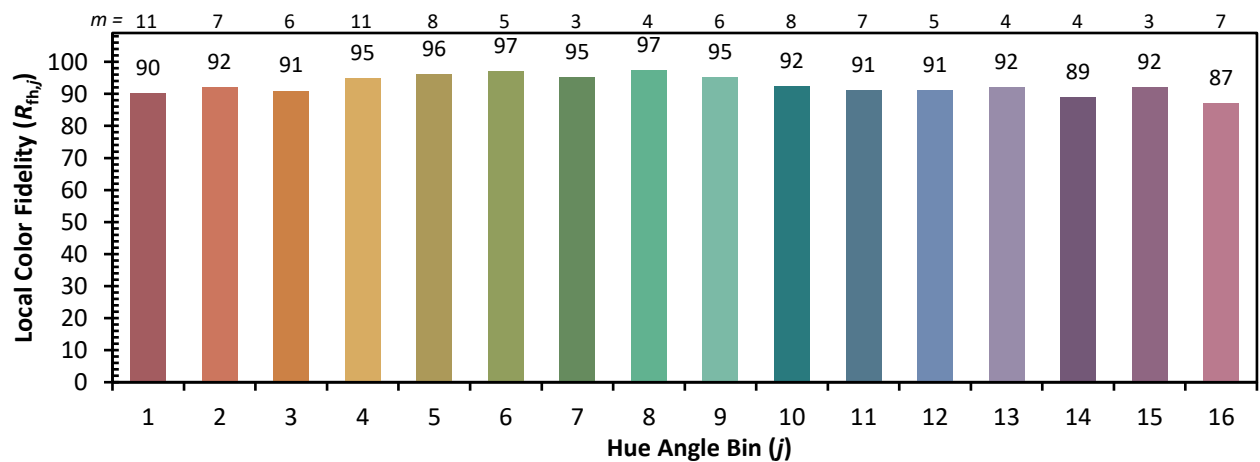
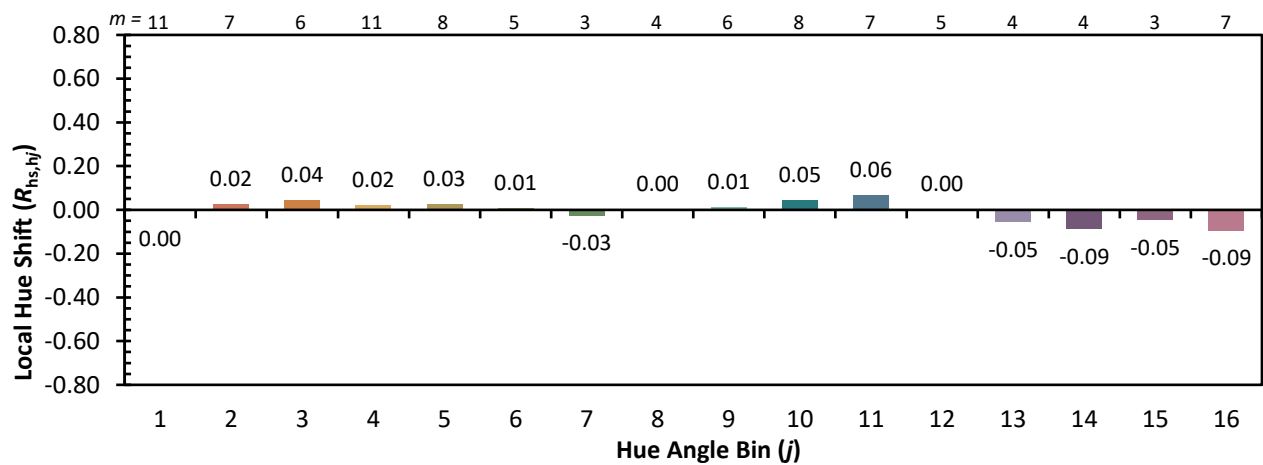
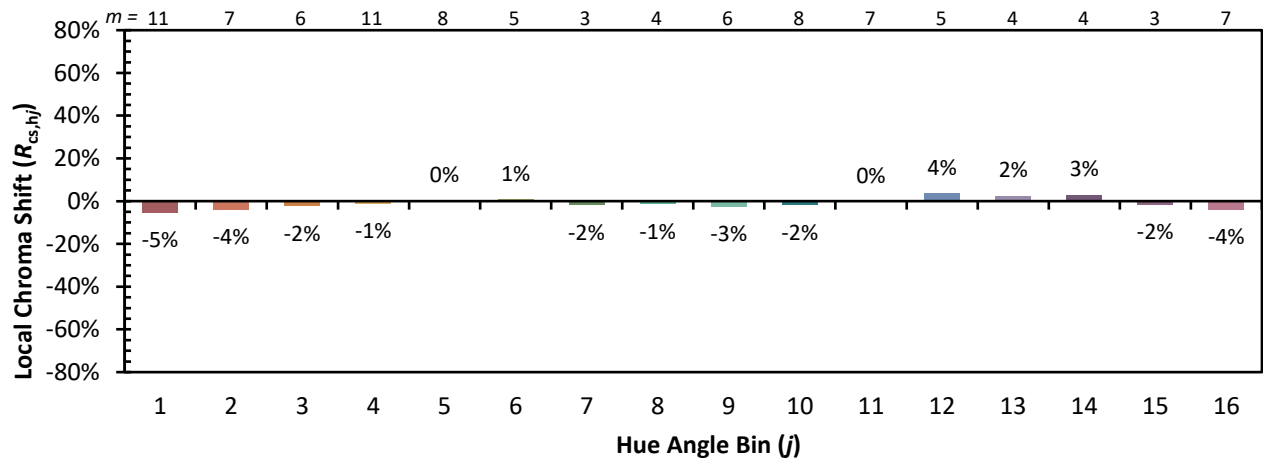
TM-30-18
Summary
 $R_f = 92.6$
 $R_g = 98$
 $CIE\ R_a = 91.8$
 $R_g = 54.7$

Color Vector Graphics


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

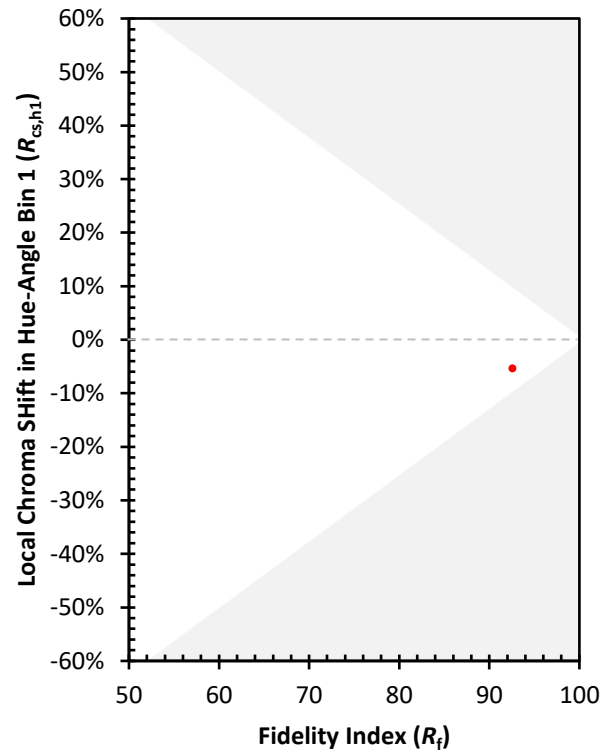
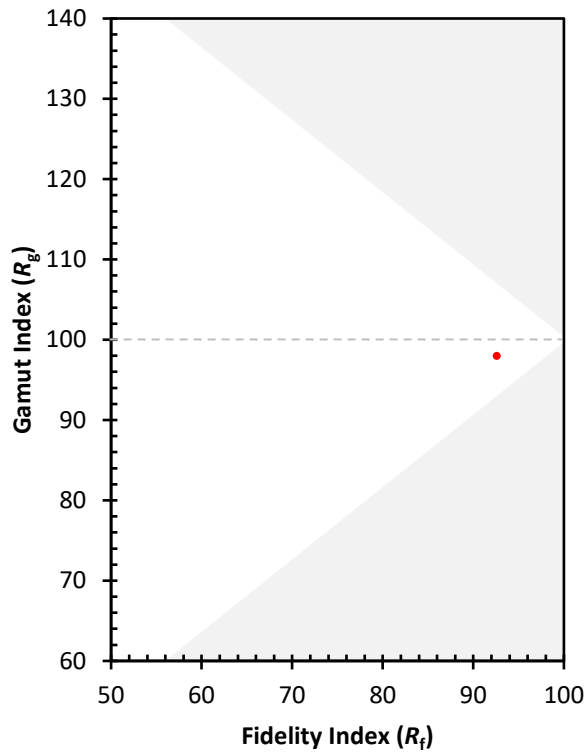
CES01 = 86	CES26 = 94	CES51 = 98	CES76 = 90
CES02 = 64	CES27 = 95	CES52 = 98	CES77 = 90
CES03 = 32	CES28 = 97	CES53 = 96	CES78 = 89
CES04 = 71	CES29 = 95	CES54 = 96	CES79 = 93
CES05 = 51	CES30 = 98	CES55 = 95	CES80 = 94
CES06 = 52	CES31 = 96	CES56 = 94	CES81 = 82
CES07 = 44	CES32 = 91	CES57 = 94	CES82 = 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)