

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: STREETWORKS

Report Number: P1065705

Luminaire Tested: **GLAN-SA9A-950-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1065705
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9A-950-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 9xLight Square PACKAGE
90CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (126) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23214.8 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 244.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

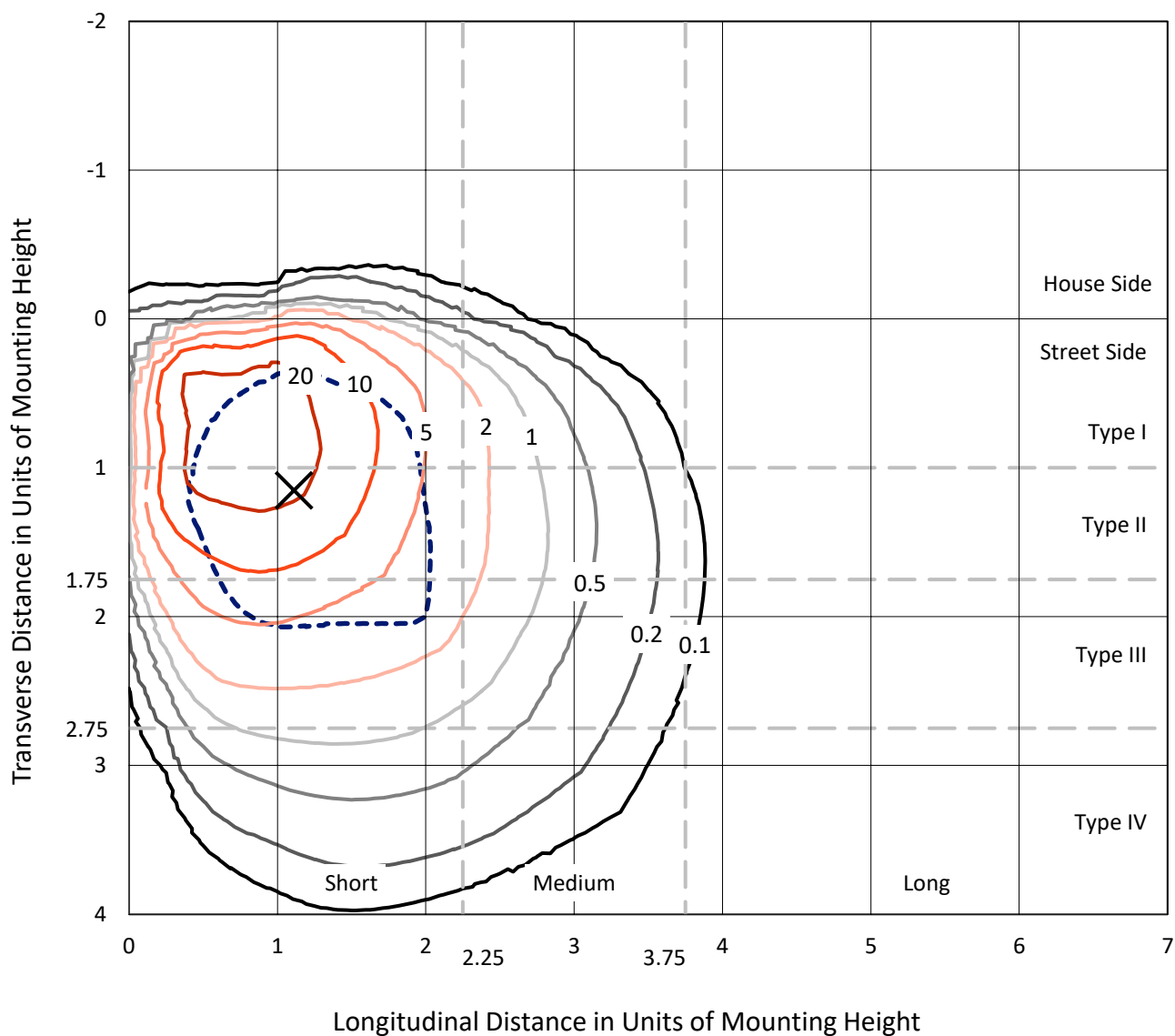
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

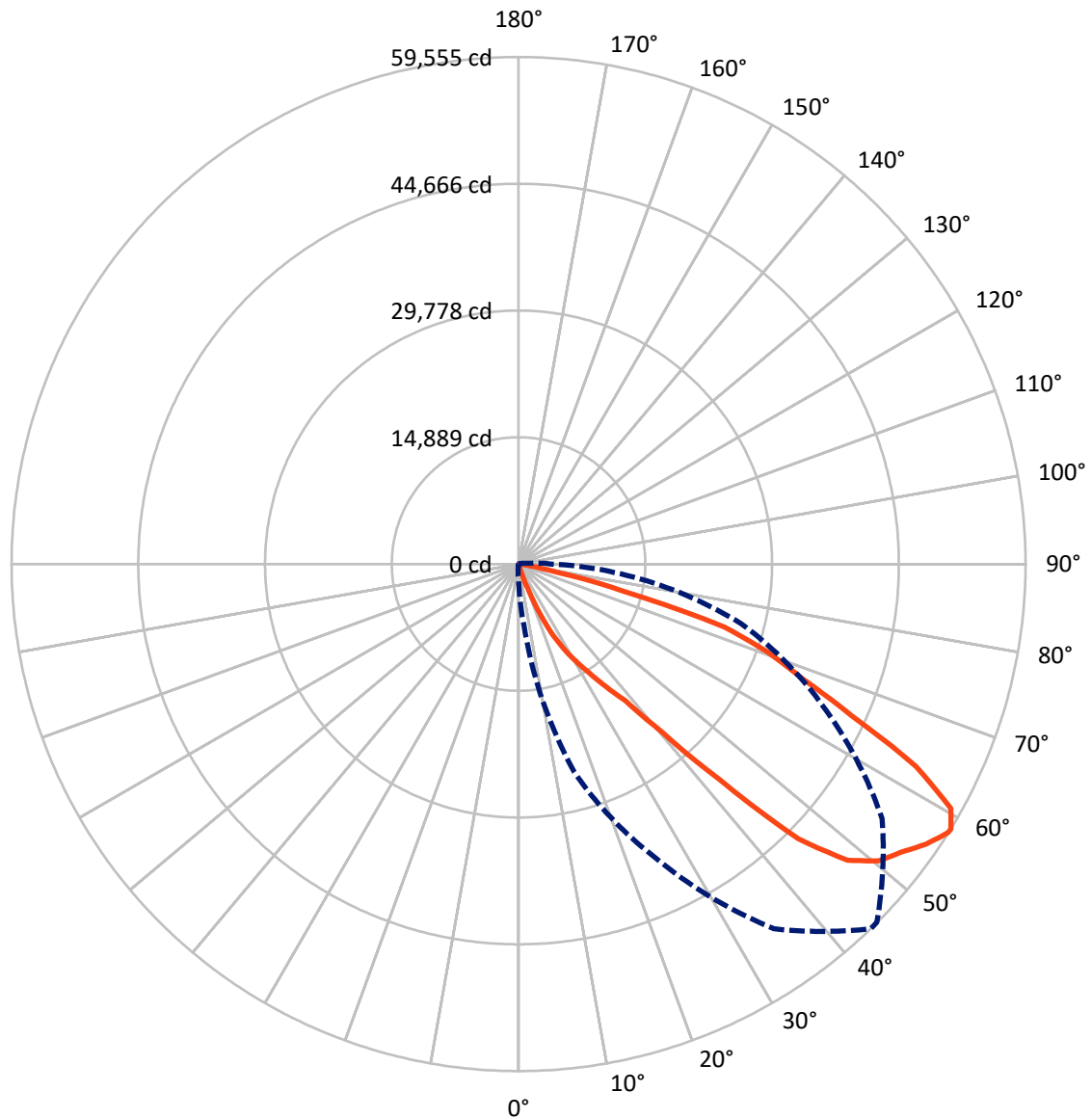


Based on 20 foot mounting height. Maximum calculated value = 40.4 fc

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	158.5	0.0	158.5
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	23056.3	0.0	23056.3
	% Fixture	99.3	0.0	99.3
Total	Lumens	23214.8	0.0	23214.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.1	0.0
10°-20°	50.9	0.2
20°-30°	550.0	2.4
30°-40°	1626.4	7.0
40°-50°	4847.6	20.9
50°-60°	7692.0	33.1
60°-70°	6416.0	27.6
70°-80°	1978.8	8.5
80°-90°	44.0	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	23214.8	100.0
0°-180°	23214.8	100.0



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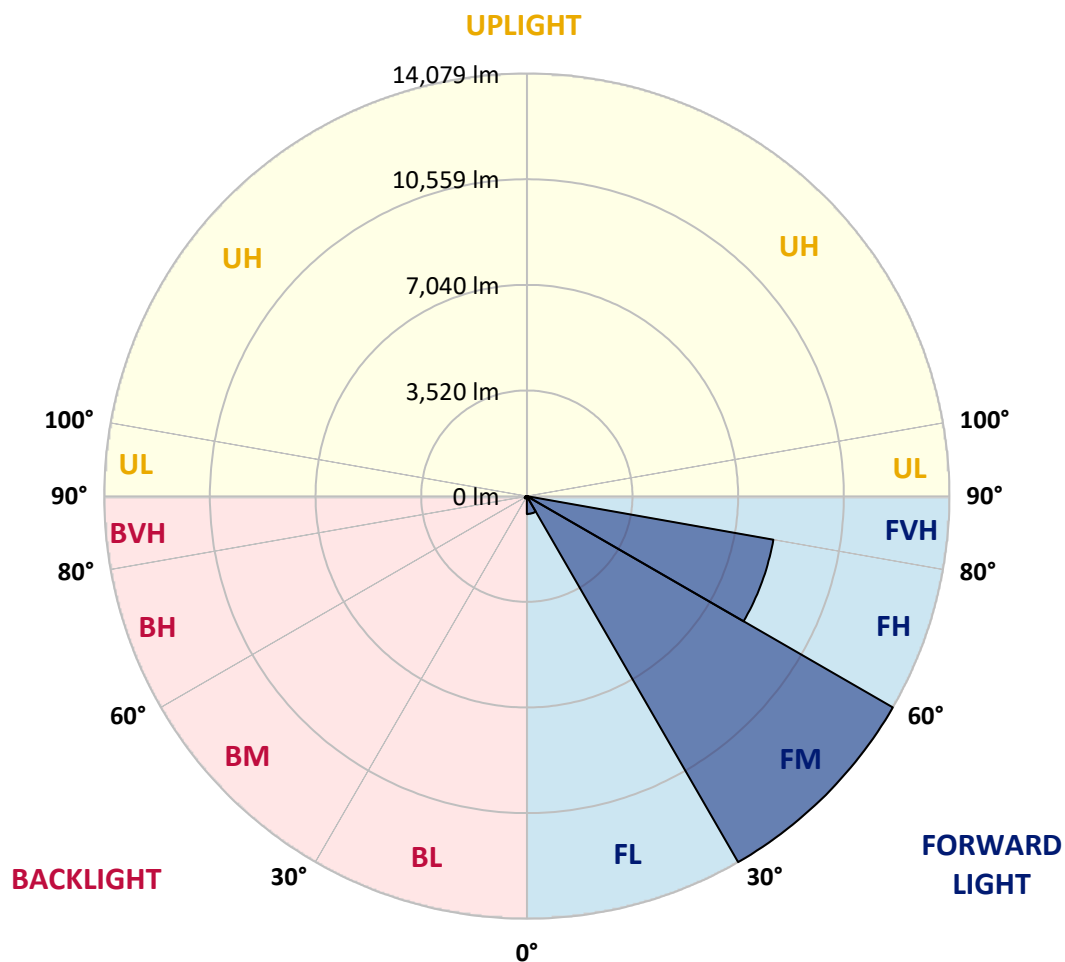
CATALOG NUMBER: GLAN-SA9A-950-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	594.4	2.6			
FM	(30°-60°)	14079.3	60.6			
FH	(60°-80°)	8340.7	35.9			G4/12000
FVH	(80°-90°)	41.8	0.2			G1/100
BL	(0°-30°)	15.5	0.1	B0/110		
BM	(30°-60°)	86.8	0.4	B0/220		
BH	(60°-80°)	54.1	0.2	B0/110		G0/110
BVH	(80°-90°)	2.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7
2.5°	131.5	131.5	126.3	119.3	112.2	105.2	103.5	100.0	98.2	96.5
5°	136.8	136.8	135.0	129.8	122.8	117.5	117.5	112.2	108.7	105.2
7.5°	140.3	142.0	145.6	143.8	140.3	135.0	135.0	131.5	126.3	117.5
10°	145.6	150.8	157.8	161.3	163.1	163.1	161.3	159.6	150.8	138.5
12.5°	150.8	161.3	178.9	196.4	206.9	221.0	219.2	215.7	192.9	166.6
15°	161.3	177.1	213.9	264.8	343.7	392.8	412.1	394.6	319.2	224.5
17.5°	173.6	199.9	310.4	554.2	908.4	1076.8	1178.5	1096.1	726.0	426.1
20°	185.9	243.8	577.0	1436.3	2356.9	2907.6	3060.2	2821.7	1811.6	812.0
22.5°	206.9	342.0	1169.7	2969.0	5078.7	5904.6	6060.7	5297.9	3421.4	1602.9
25°	250.8	496.3	2016.7	4838.4	7579.4	8973.6	8908.7	7909.1	5550.4	2560.4
27.5°	313.9	722.5	3049.7	6874.4	9974.9	11204.3	11351.6	10115.2	7398.8	3765.2
30°	405.1	1001.4	4158.0	8505.4	11895.2	13224.5	13249.1	11970.6	9052.5	4822.6
32.5°	492.8	1264.4	5127.8	10081.9	13787.4	15244.8	15353.5	13780.4	10287.1	5923.9
35°	559.4	1436.3	6109.8	11467.3	15695.4	17703.4	17696.4	15828.7	11749.7	6907.8
37.5°	564.7	1608.1	6998.9	12884.3	18112.0	20360.2	20583.0	18524.1	13517.4	8124.8
40°	552.4	1801.0	8124.8	15093.9	22466.4	25915.9	26112.3	23516.9	17063.3	10208.2
42.5°	566.4	2136.0	9952.1	19174.8	29696.8	34651.0	35029.8	32301.1	23581.8	14459.1
45°	640.1	2765.6	13780.4	26001.8	40003.2	46042.9	45916.6	41986.6	31166.4	20930.2
47.5°	883.9	4307.0	19455.3	32646.5	46590.0	51968.6	52077.3	47274.0	35592.7	25905.4
50°	1359.1	6590.3	24223.6	36159.2	49422.2	54818.3	54716.6	49166.2	37274.5	28355.3
52.5°	1767.7	8242.3	26615.6	37392.0	49785.3	56226.5	56219.5	49664.3	37535.8	28565.7
55°	1869.4	8366.8	26634.9	37458.6	50599.0	58069.6	58301.1	50890.1	37874.3	27646.8
57.5°	1829.1	7407.5	25523.1	37844.4	52047.5	59495.4	59507.7	52077.3	38733.6	27083.9
58°	1794.0	7256.7	25298.6	38063.7	52296.5	59555.0	59525.2	52131.7	39433.3	27062.8
60°	1597.6	6301.0	24423.5	38623.1	51926.5	58330.9	58052.1	50944.4	39329.8	26847.1
62.5°	1255.6	4915.6	23562.5	37976.0	47959.7	52405.3	52521.0	45102.9	35854.0	25589.7
65°	999.6	3663.4	21766.7	33311.2	39492.9	43035.3	43466.7	36676.5	29926.6	21668.5
67.5°	796.2	2648.1	18259.3	26520.9	31250.6	35917.1	36231.1	30792.9	23185.4	16602.1
70°	647.1	1790.5	12603.7	19395.7	25775.6	31022.6	31041.9	25580.9	17305.3	10878.1
72.5°	573.5	1239.9	7316.4	14145.2	20900.4	25279.3	24769.0	20758.3	13299.9	6443.0
75°	496.3	822.5	3588.0	8647.4	12672.1	12758.0	12952.7	9629.5	6648.2	3063.7
77.5°	408.6	584.0	1413.5	2362.2	3800.2	4864.7	5045.3	3823.0	2211.4	754.1
80°	280.6	277.1	380.5	724.3	1087.3	1362.6	1271.4	983.8	578.7	289.4
82.5°	121.0	131.5	171.9	206.9	168.4	163.1	156.1	100.0	77.2	59.6
85°	38.6	35.1	36.8	36.8	29.8	22.8	22.8	10.5	0.0	0.0
87.5°	19.3	15.8	15.8	14.0	8.8	3.5	1.8	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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CATALOG NUMBER: GLAN-SA9A-950-U-LBC

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
101.7	0°	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7
94.7	2.5°	92.9	92.9	89.4	85.9	84.2	80.7	78.9	77.2	75.4	73.7
101.7	5°	98.2	96.5	91.2	85.9	80.7	75.4	71.9	68.4	64.9	63.1
112.2	7.5°	107.0	103.5	92.9	84.2	77.2	70.1	66.6	61.4	57.9	52.6
124.5	10°	117.5	110.5	96.5	85.9	75.4	66.6	61.4	56.1	50.9	43.8
142.0	12.5°	131.5	119.3	101.7	84.2	71.9	61.4	56.1	49.1	43.8	38.6
164.8	15°	143.8	128.0	103.5	84.2	68.4	56.1	49.1	42.1	36.8	29.8
206.9	17.5°	161.3	135.0	101.7	78.9	63.1	49.1	42.1	36.8	28.1	17.5
306.9	20°	191.2	140.3	98.2	73.7	54.4	40.3	31.6	24.6	12.3	3.5
461.2	22.5°	238.5	154.3	94.7	66.6	47.3	31.6	21.0	8.8	0.0	0.0
701.5	25°	329.7	178.9	94.7	63.1	42.1	22.8	7.0	0.0	0.0	0.0
996.1	27.5°	438.4	212.2	94.7	54.4	33.3	12.3	0.0	0.0	0.0	0.0
1357.3	30°	548.9	249.0	94.7	47.3	26.3	1.8	0.0	0.0	0.0	0.0
1671.3	32.5°	654.1	280.6	96.5	40.3	17.5	0.0	0.0	0.0	0.0	0.0
2106.2	35°	761.1	285.9	94.7	35.1	10.5	0.0	0.0	0.0	0.0	0.0
2639.3	37.5°	897.9	275.3	89.4	31.6	5.3	0.0	0.0	0.0	0.0	0.0
3472.3	40°	1104.8	280.6	84.2	29.8	1.8	0.0	0.0	0.0	0.0	0.0
4957.7	42.5°	1487.1	303.4	77.2	29.8	0.0	0.0	0.0	0.0	0.0	0.0
7896.8	45°	2570.9	406.9	70.1	31.6	0.0	0.0	0.0	0.0	0.0	0.0
11854.9	47.5°	4252.7	731.3	68.4	31.6	0.0	0.0	0.0	0.0	0.0	0.0
14280.2	50°	5427.6	920.7	71.9	33.3	0.0	0.0	0.0	0.0	0.0	0.0
14583.6	52.5°	5418.9	1025.9	75.4	35.1	7.0	0.0	0.0	0.0	0.0	0.0
13442.0	55°	4817.4	1045.2	80.7	38.6	22.8	0.0	0.0	0.0	0.0	0.0
11551.5	57.5°	4026.5	954.0	92.9	47.3	42.1	0.0	0.0	0.0	0.0	0.0
11255.1	58°	3886.2	911.9	96.5	49.1	45.6	0.0	0.0	0.0	0.0	0.0
9762.7	60°	3184.7	743.6	122.8	61.4	61.4	0.0	0.0	0.0	0.0	0.0
8003.8	62.5°	2199.1	648.9	140.3	78.9	63.1	0.0	0.0	0.0	0.0	0.0
5901.1	65°	1555.5	585.7	152.6	84.2	50.9	0.0	0.0	0.0	0.0	0.0
4193.1	67.5°	1162.7	540.1	168.4	85.9	26.3	0.0	0.0	0.0	0.0	0.0
2630.5	70°	890.9	506.8	206.9	91.2	7.0	0.0	0.0	0.0	0.0	0.0
1567.8	72.5°	726.0	468.2	250.8	94.7	0.0	0.0	0.0	0.0	0.0	0.0
940.0	75°	601.5	422.6	242.0	103.5	0.0	0.0	0.0	0.0	0.0	0.0
501.6	77.5°	399.8	327.9	221.0	103.5	0.0	0.0	0.0	0.0	0.0	0.0
178.9	80°	140.3	129.8	171.9	91.2	0.0	0.0	0.0	0.0	0.0	0.0
36.8	82.5°	21.0	17.5	24.6	31.6	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°
101.7	0°	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7
71.9	2.5°	71.9	71.9	70.1	71.9	71.9	75.4	84.2	96.5	110.5	115.7
61.4	5°	59.6	57.9	56.1	56.1	56.1	61.4	68.4	82.4	98.2	105.2
50.9	7.5°	49.1	47.3	45.6	43.8	43.8	47.3	56.1	71.9	87.7	94.7
42.1	10°	40.3	36.8	35.1	33.3	33.3	36.8	45.6	61.4	78.9	85.9
35.1	12.5°	33.3	28.1	24.6	22.8	21.0	26.3	35.1	49.1	68.4	77.2
26.3	15°	22.8	17.5	12.3	10.5	8.8	14.0	22.8	38.6	57.9	68.4
14.0	17.5°	12.3	5.3	1.8	0.0	0.0	3.5	10.5	28.1	47.3	56.1
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	35.1	43.8
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	21.0	29.8
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	15.8
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5
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	5.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	14.0
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°
101.7	0°	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7
121.0	2.5°	124.5	122.8	119.3	115.7	115.7	115.7	121.0	126.3	131.5	131.5
108.7	5°	115.7	115.7	114.0	110.5	110.5	112.2	119.3	128.0	135.0	136.8
100.0	7.5°	107.0	110.5	107.0	105.2	107.0	108.7	115.7	126.3	136.8	140.3
92.9	10°	101.7	103.5	103.5	101.7	101.7	105.2	112.2	126.3	140.3	145.6
84.2	12.5°	94.7	98.2	96.5	96.5	96.5	100.0	108.7	124.5	143.8	150.8
75.4	15°	87.7	92.9	92.9	91.2	91.2	92.9	105.2	122.8	149.1	161.3
64.9	17.5°	80.7	85.9	87.7	84.2	84.2	87.7	100.0	122.8	152.6	173.6
52.6	20°	66.6	75.4	80.7	75.4	75.4	78.9	91.2	115.7	154.3	185.9
38.6	22.5°	52.6	61.4	68.4	66.6	66.6	68.4	84.2	110.5	156.1	206.9
22.8	25°	38.6	47.3	52.6	56.1	56.1	61.4	77.2	107.0	163.1	250.8
10.5	27.5°	22.8	33.3	40.3	43.8	45.6	52.6	71.9	103.5	175.4	313.9
0.0	30°	10.5	19.3	28.1	35.1	35.1	47.3	66.6	100.0	191.2	405.1
0.0	32.5°	0.0	8.8	14.0	24.6	26.3	38.6	61.4	96.5	213.9	492.8
0.0	35°	0.0	0.0	7.0	19.3	19.3	31.6	56.1	92.9	249.0	559.4
0.0	37.5°	0.0	0.0	0.0	14.0	15.8	28.1	54.4	91.2	256.0	564.7
0.0	40°	0.0	0.0	0.0	10.5	12.3	26.3	54.4	92.9	231.5	552.4
0.0	42.5°	0.0	0.0	0.0	7.0	8.8	26.3	54.4	96.5	208.7	566.4
0.0	45°	0.0	0.0	0.0	5.3	7.0	28.1	52.6	94.7	196.4	640.1
0.0	47.5°	0.0	0.0	0.0	7.0	10.5	28.1	50.9	92.9	198.2	883.9
0.0	50°	0.0	0.0	0.0	8.8	12.3	28.1	52.6	89.4	217.5	1359.1
0.0	52.5°	0.0	0.0	0.0	7.0	10.5	31.6	57.9	87.7	236.7	1767.7
0.0	55°	0.0	0.0	0.0	1.8	5.3	40.3	63.1	87.7	266.6	1869.4
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	45.6	71.9	92.9	315.7	1829.1
0.0	58°	0.0	0.0	0.0	0.0	0.0	45.6	73.7	92.9	319.2	1794.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	45.6	80.7	103.5	343.7	1597.6
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	38.6	96.5	129.8	357.8	1255.6
0.0	65°	0.0	0.0	0.0	0.0	0.0	31.6	114.0	142.0	368.3	999.6
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	29.8	117.5	143.8	373.5	796.2
0.0	70°	0.0	0.0	0.0	0.0	0.0	31.6	115.7	154.3	391.1	647.1
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	35.1	105.2	170.1	391.1	573.5
0.0	75°	0.0	0.0	0.0	0.0	0.0	36.8	98.2	191.2	356.0	496.3
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	35.1	96.5	222.7	317.4	408.6
0.0	80°	3.5	5.3	5.3	3.5	3.5	29.8	94.7	226.2	270.1	280.6
1.8	82.5°	10.5	14.0	12.3	8.8	8.8	26.3	84.2	189.4	140.3	121.0
10.5	85°	19.3	22.8	22.8	19.3	19.3	24.6	52.6	68.4	47.3	38.6
19.3	87.5°	26.3	29.8	29.8	26.3	26.3	24.6	22.8	21.0	19.3	19.3
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

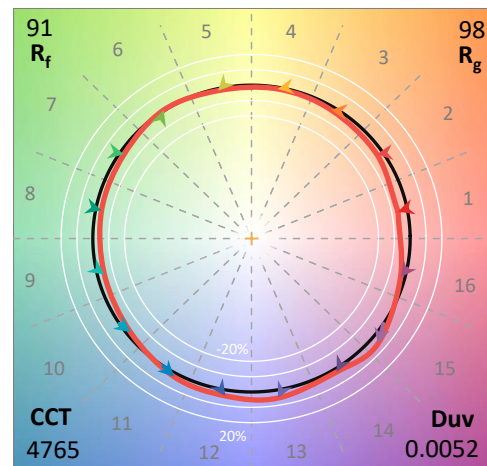
Test Information

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

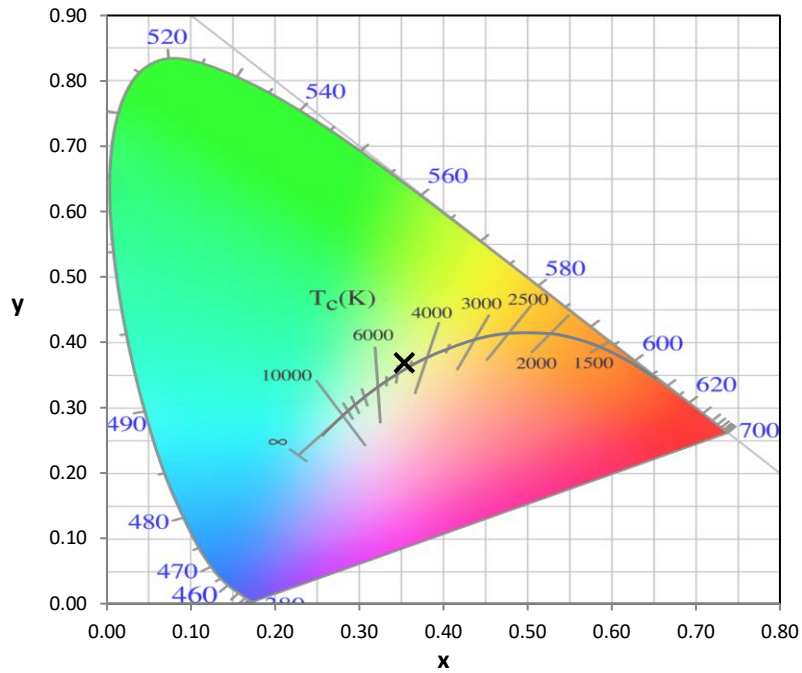
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-17

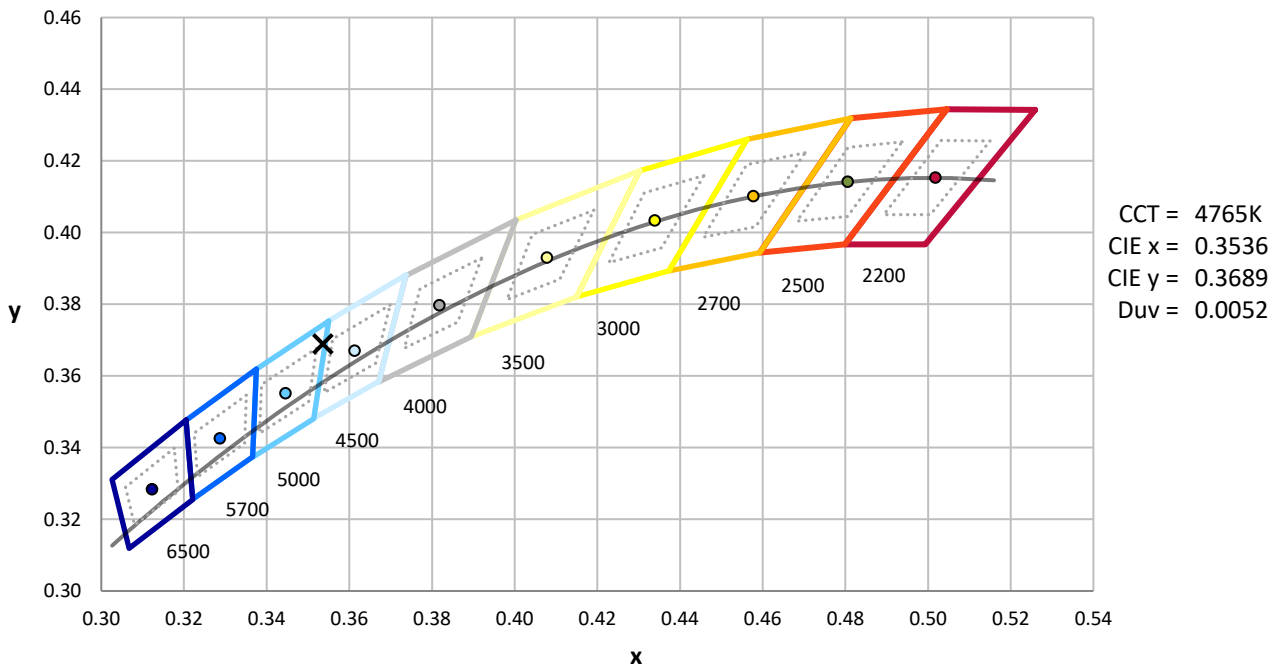
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



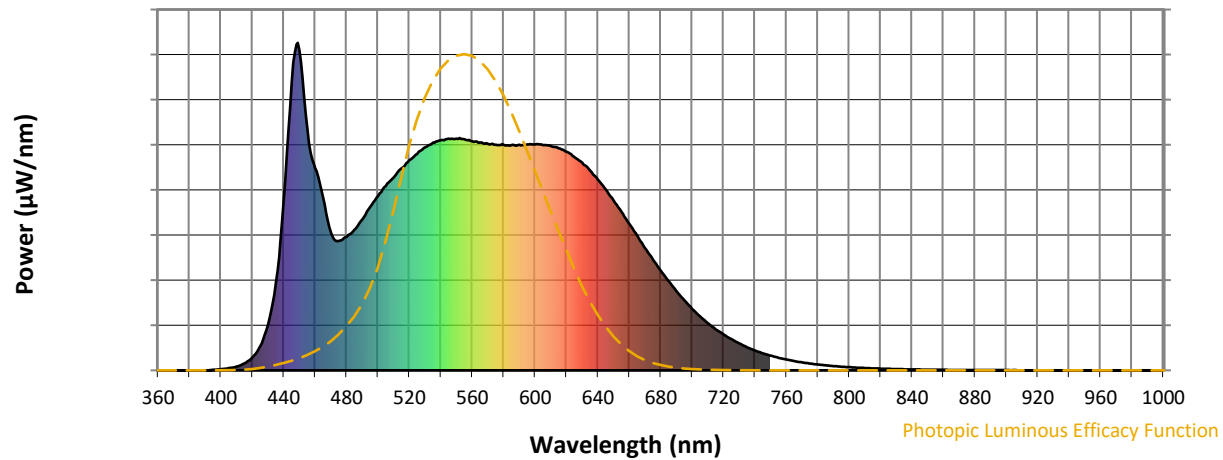
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-17

Photopic Flux vs. Wavelength

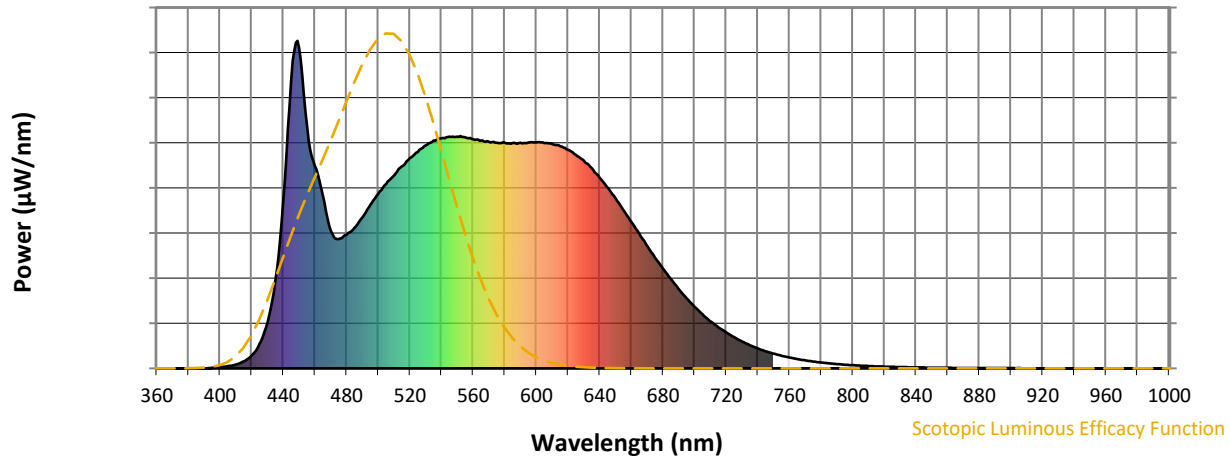


Photopic Lumens: NR

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



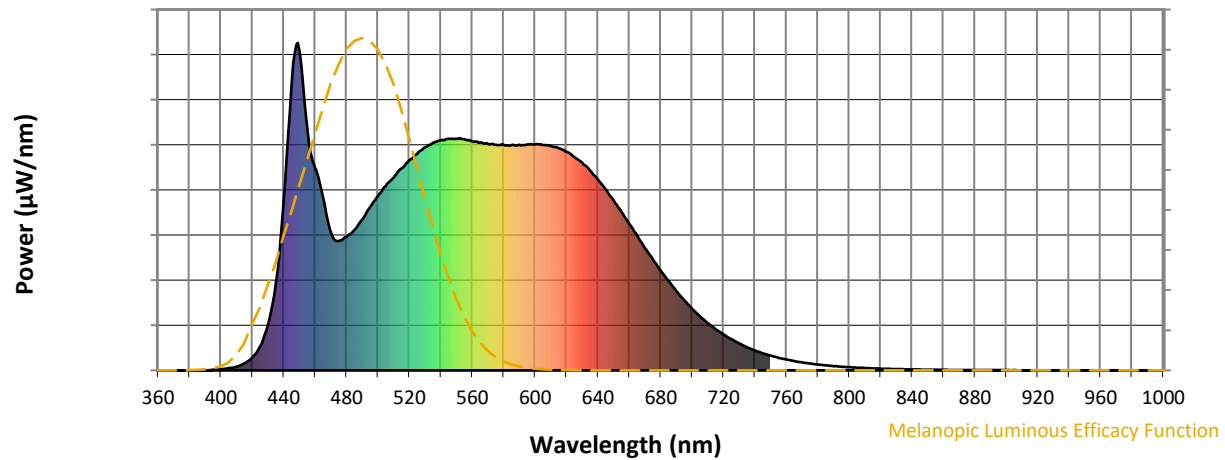
Scotopic Lumens: NR

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

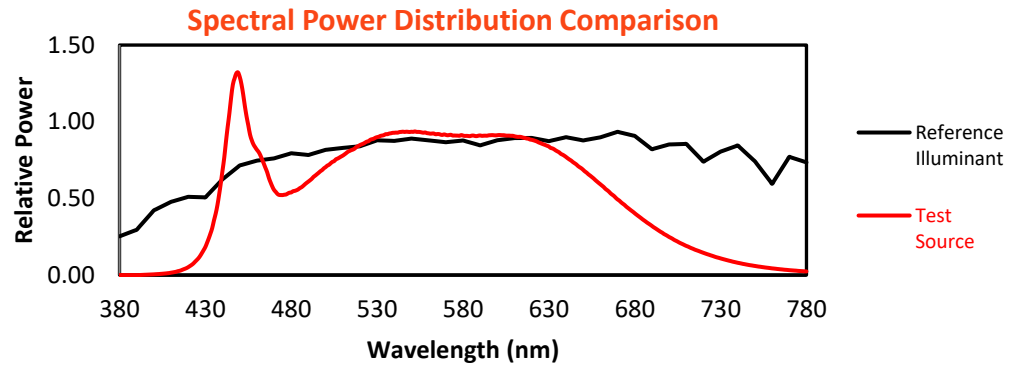
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	462	NR	620	668	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			

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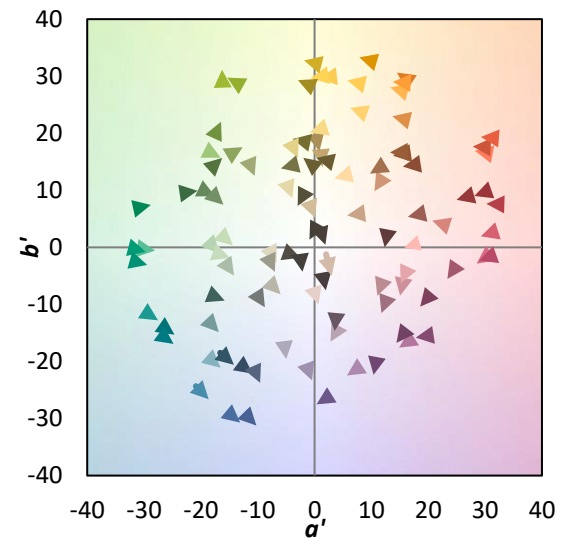
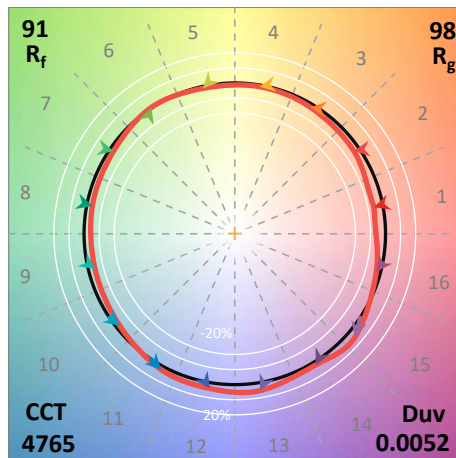
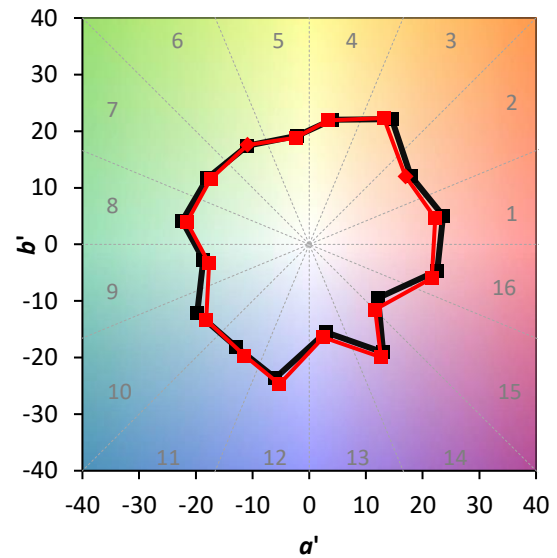
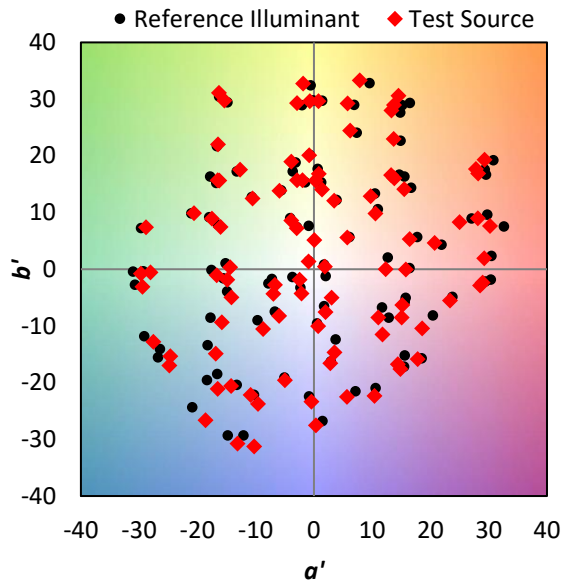
TM-30-18

Summary

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

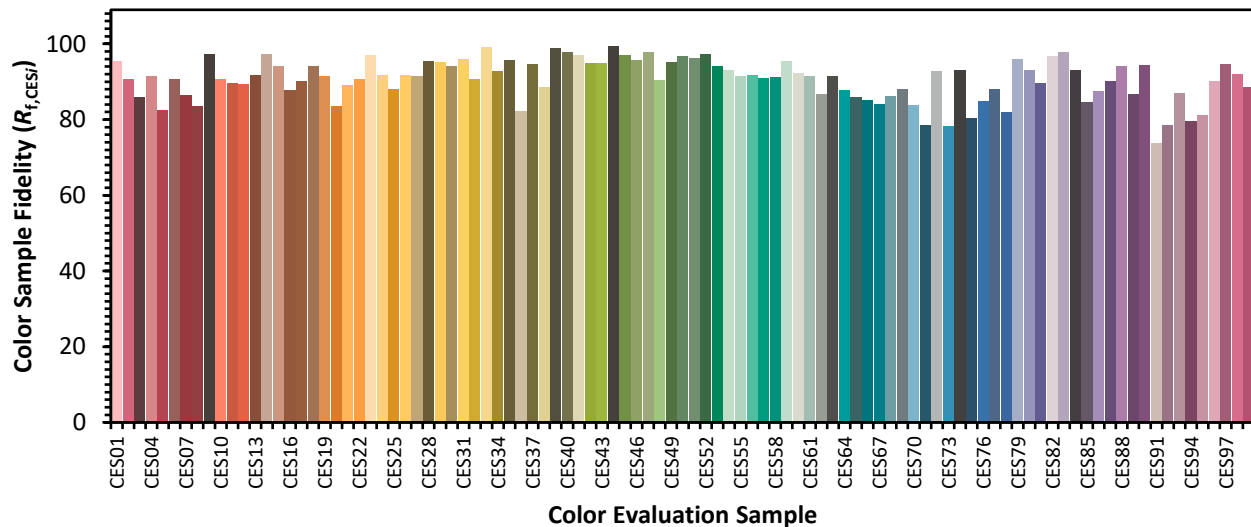


Color Vector Graphics

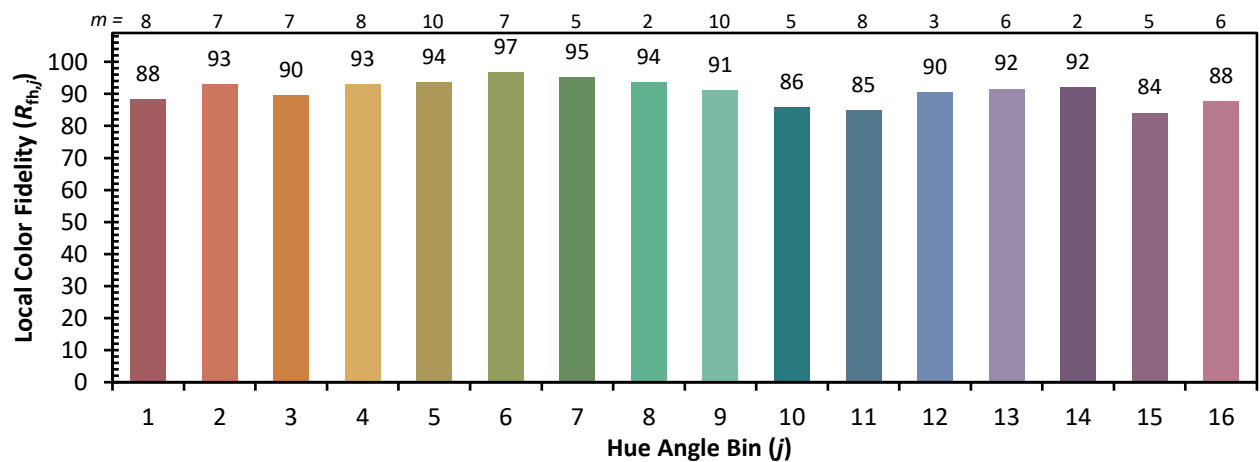
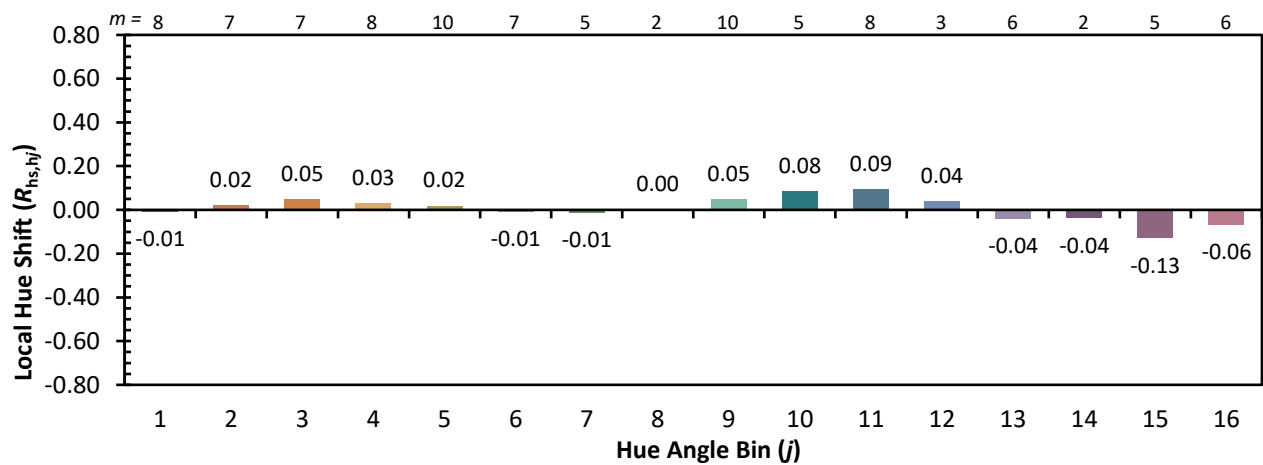
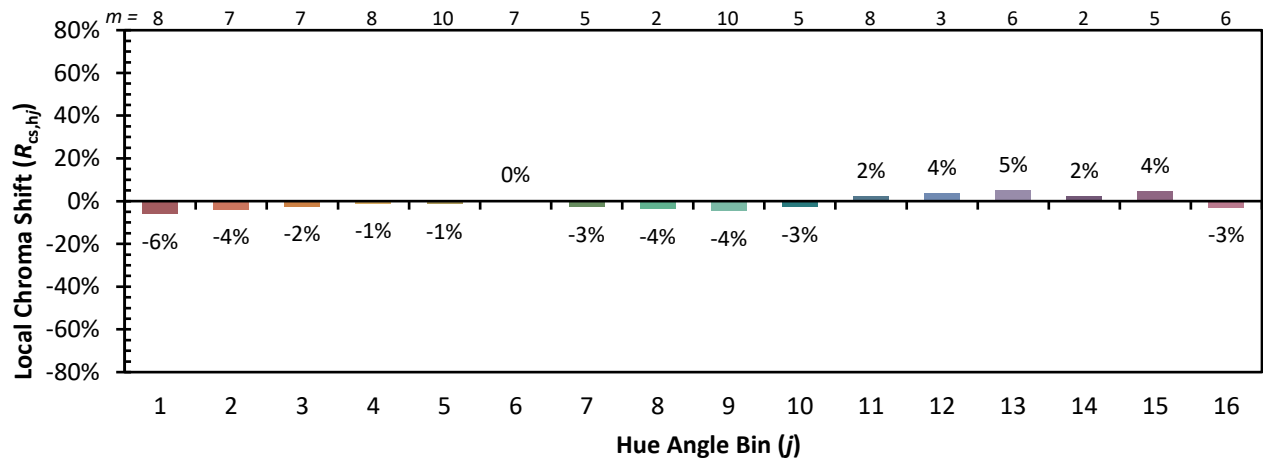


Individual Sample Fidelity Index ($R_{f,i}$)

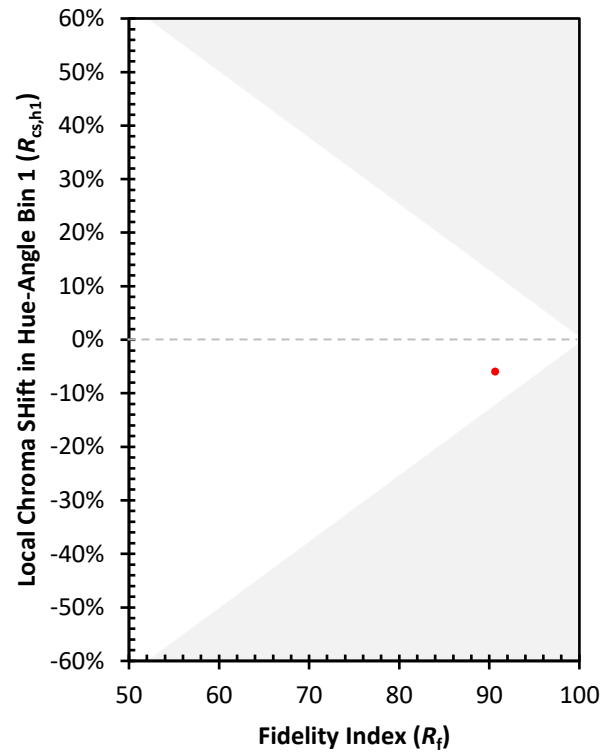
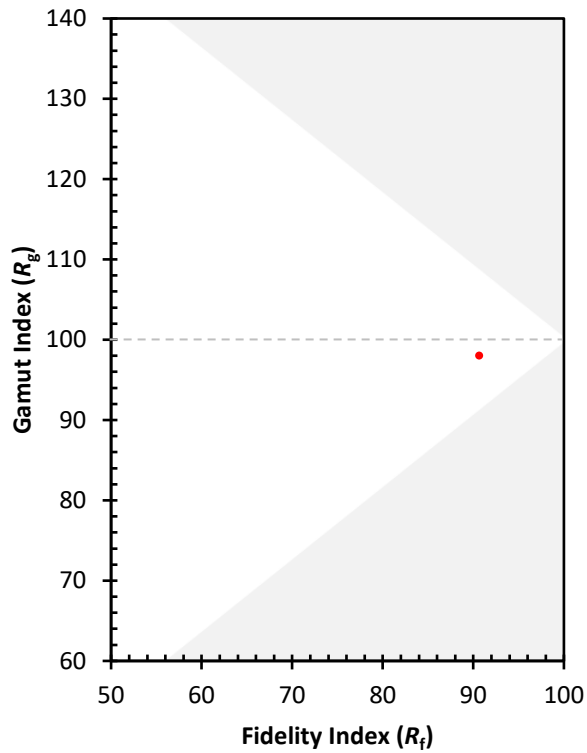
CES01 = 85	CES26 = 92	CES51 = 96	CES76 = 85
CES02 = 60	CES27 = 92	CES52 = 97	CES77 = 88
CES03 = 31	CES28 = 95	CES53 = 94	CES78 = 82
CES04 = 69	CES29 = 95	CES54 = 93	CES79 = 96
CES05 = 48	CES30 = 94	CES55 = 92	CES80 = 93
CES06 = 50	CES31 = 96	CES56 = 92	CES81 = 89
CES07 = 41	CES32 = 91	CES57 = 91	CES82 = 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)