

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: P1049485

Luminaire Tested: **GALN-SA7A-740-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049485
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-740-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 7xLight Square PACKAGE
70CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (98) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22709.2 lumens
Efficiency: N/A
Efficacy: 117.6 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

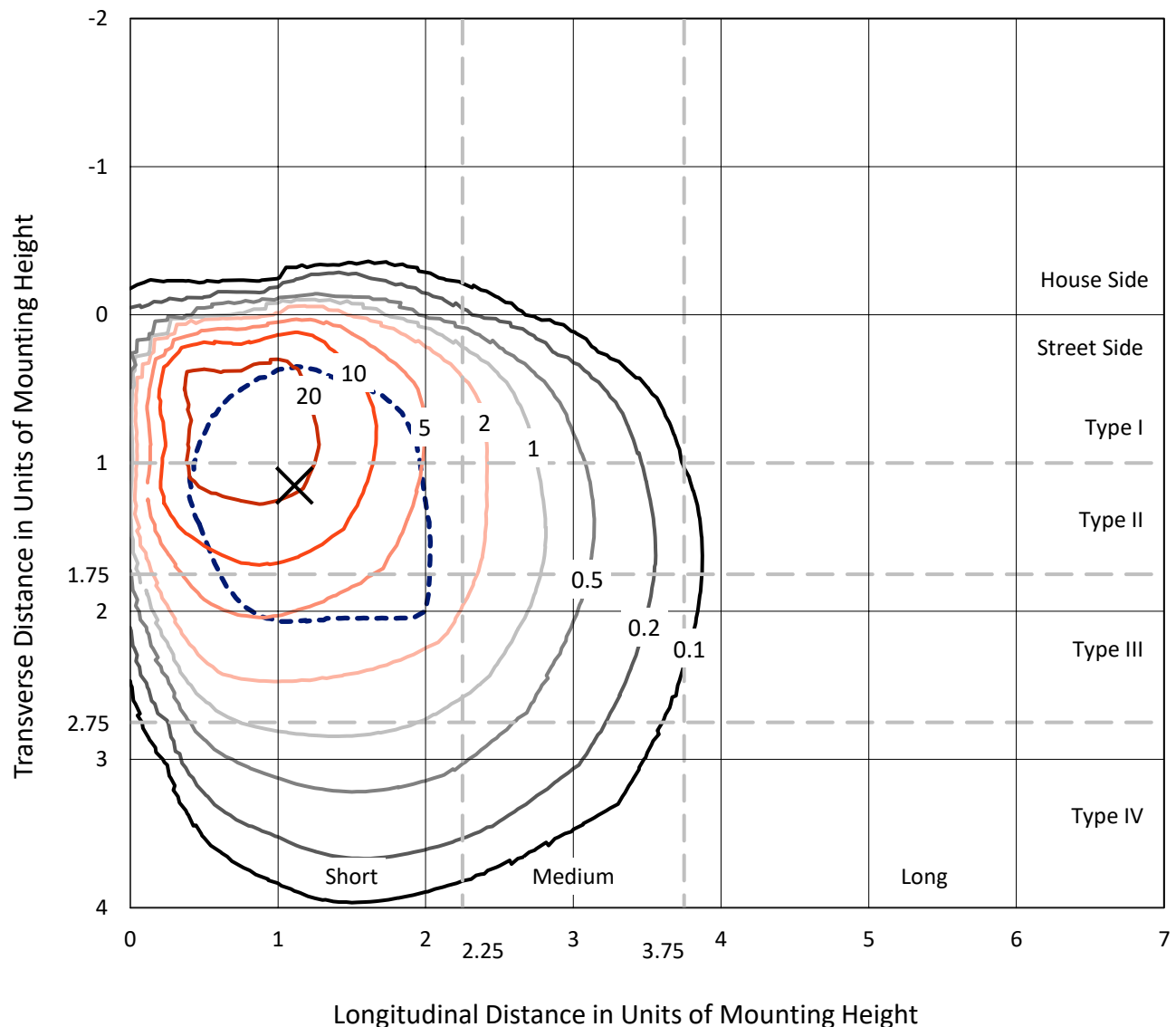
Input Watts (W): 193.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P1049485

CATALOG NUMBER: GALN-SA7A-740-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

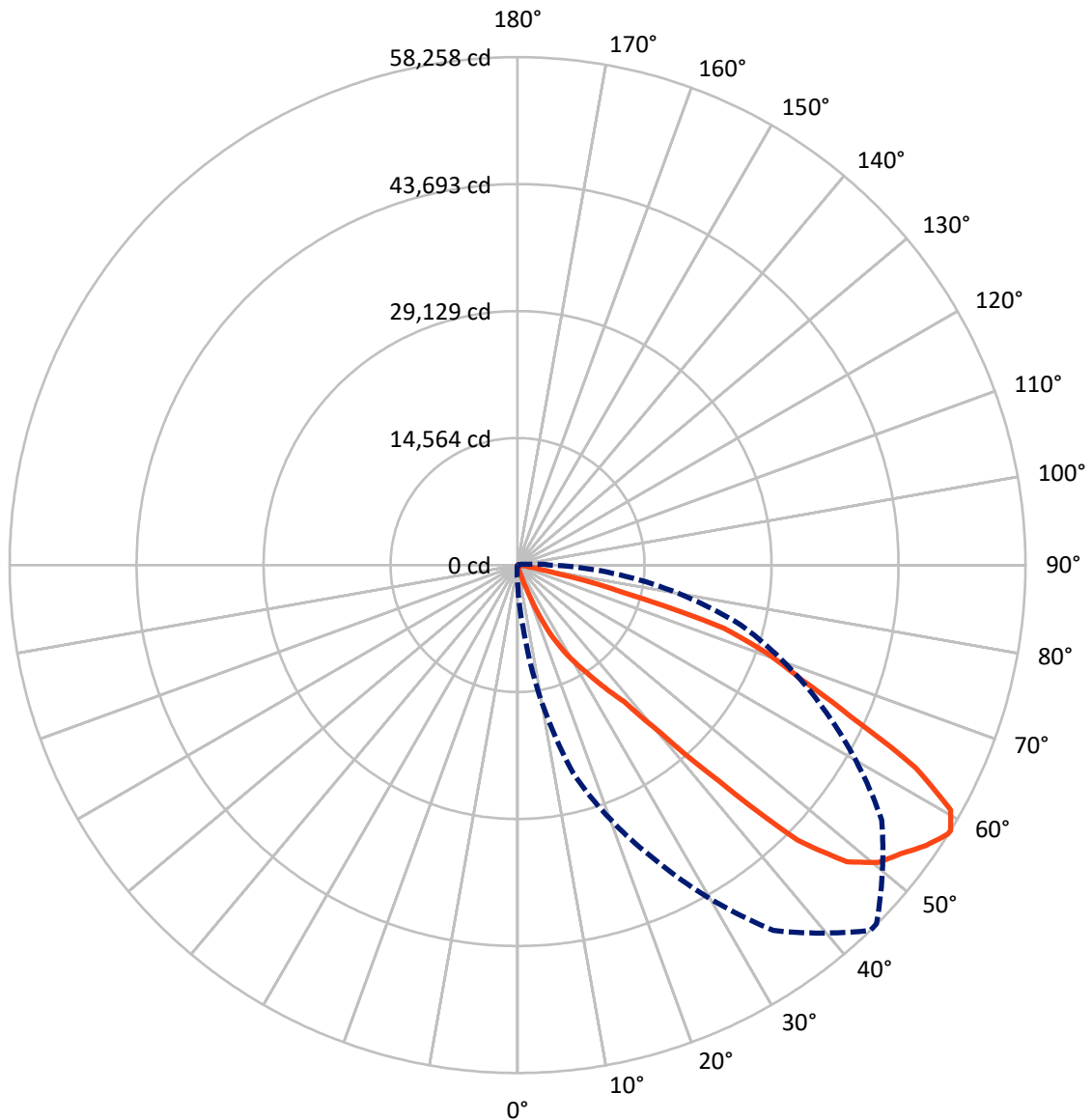
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 39.5 fc
 Type III - Short - N/A

REPORT NUMBER: P1049485
CATALOG NUMBER: GALN-SA7A-740-U-LBC

Luminous Intensity Polar Plot



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

REPORT NUMBER: P1049485

CATALOG NUMBER: GALN-SA7A-740-U-LBC

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	155.1	0.0	155.1
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	22554.1	0.0	22554.1
	% Fixture	99.3	0.0	99.3
Total	Lumens	22709.2	0.0	22709.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.9	0.0
10°-20°	49.8	0.2
20°-30°	538.0	2.4
30°-40°	1591.0	7.0
40°-50°	4742.0	20.9
50°-60°	7524.5	33.1
60°-70°	6276.3	27.6
70°-80°	1935.7	8.5
80°-90°	43.0	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°	22709.2	100.0
0°-180°	22709.2	100.0



REPORT NUMBER: P1049485

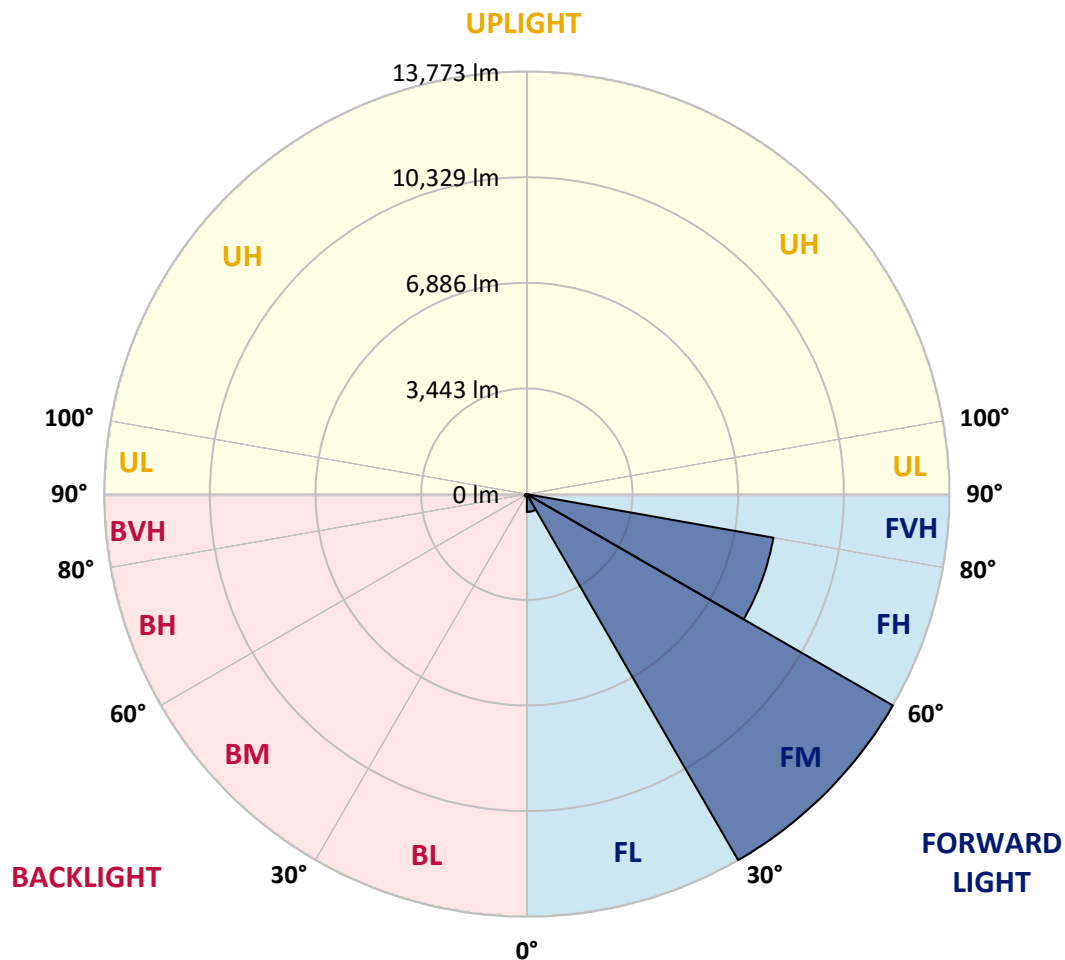
CATALOG NUMBER: GALN-SA7A-740-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	581.5	2.6			
FM	(30°-60°)	13772.6	60.6			
FH	(60°-80°)	8159.1	35.9			G4/12000
FVH	(80°-90°)	40.9	0.2			G1/100
BL	(0°-30°)	15.2	0.1	B0/110		
BM	(30°-60°)	84.9	0.4	B0/220		
BH	(60°-80°)	52.9	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



REPORT NUMBER: P1049485

CATALOG NUMBER: GALN-SA7A-740-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
2.5°	128.7	128.7	123.5	116.7	109.8	102.9	101.2	97.8	96.1	94.4
5°	133.8	133.8	132.1	126.9	120.1	114.9	114.9	109.8	106.4	102.9
7.5°	137.2	139.0	142.4	140.7	137.2	132.1	132.1	128.7	123.5	114.9
10°	142.4	147.5	154.4	157.8	159.5	159.5	157.8	156.1	147.5	135.5
12.5°	147.5	157.8	175.0	192.1	202.4	216.2	214.4	211.0	188.7	163.0
15°	157.8	173.3	209.3	259.0	336.2	384.3	403.1	386.0	312.2	219.6
17.5°	169.8	195.6	303.6	542.1	888.6	1053.3	1152.8	1072.2	710.2	416.9
20°	181.8	238.5	564.4	1405.0	2305.6	2844.3	2993.5	2760.2	1772.1	794.3
22.5°	202.4	334.5	1144.2	2904.3	4968.0	5776.0	5928.7	5182.5	3346.9	1568.0
25°	245.3	485.5	1972.8	4733.0	7414.3	8778.1	8714.7	7736.8	5429.5	2504.6
27.5°	307.1	706.8	2983.2	6724.7	9757.7	10960.2	11104.3	9894.9	7237.6	3683.1
30°	396.3	979.5	4067.4	8320.1	11636.1	12936.5	12960.5	11709.9	8855.3	4717.6
32.5°	482.1	1236.9	5016.1	9862.3	13487.2	14912.7	15019.1	13480.3	10063.0	5794.9
35°	547.2	1405.0	5976.8	11217.6	15353.6	17317.8	17311.0	15484.0	11493.8	6757.3
37.5°	552.4	1573.1	6846.5	12603.7	17717.5	19916.8	20134.7	18120.7	13223.0	7947.8
40°	540.4	1761.8	7947.8	14765.2	21977.1	25351.5	25543.6	23004.7	16691.7	9985.8
42.5°	554.1	2089.5	9735.4	18757.1	29050.0	33896.3	34266.8	31597.5	23068.1	14144.2
45°	626.2	2705.3	13480.3	25435.5	39132.0	45040.1	44916.6	41072.2	30487.6	20474.3
47.5°	864.6	4213.2	19031.6	31935.5	45575.3	50836.7	50943.1	46244.4	34817.5	25341.2
50°	1329.5	6446.8	23696.0	35371.6	48345.8	53624.4	53524.9	48095.4	36462.7	27737.7
52.5°	1729.2	8062.8	26035.9	36577.6	48700.9	55001.9	54995.1	48582.6	36718.3	27943.6
55°	1828.7	8184.6	26054.8	36642.8	49496.9	56804.9	57031.3	49781.7	37049.4	27044.6
57.5°	1789.3	7246.2	24967.2	37020.2	50913.9	58199.6	58211.6	50943.1	37889.9	26494.0
58°	1754.9	7098.7	24747.6	37234.6	51157.5	58257.9	58228.8	50996.3	38574.4	26473.4
60°	1562.8	6163.7	23891.6	37781.9	50795.6	57060.5	56787.7	49834.9	38473.2	26262.4
62.5°	1228.3	4808.5	23049.3	37148.9	46915.1	51263.9	51377.1	44120.6	35073.1	25032.4
65°	977.8	3583.7	21292.6	32585.7	38632.8	42098.0	42520.0	35877.7	29274.8	21196.6
67.5°	778.8	2590.4	17861.6	25943.3	30570.0	35134.9	35442.0	30122.2	22680.4	16240.5
70°	633.0	1751.5	12329.2	18973.3	25214.2	30347.0	30365.8	25023.8	16928.4	10641.2
72.5°	561.0	1212.8	7157.0	13837.1	20445.2	24728.7	24229.5	20306.2	13010.2	6302.7
75°	485.5	804.6	3509.9	8459.1	12396.1	12480.2	12670.6	9419.7	6503.4	2997.0
77.5°	399.7	571.3	1382.7	2310.8	3717.5	4758.8	4935.5	3739.8	2163.2	737.7
80°	274.5	271.0	372.3	708.5	1063.6	1332.9	1243.7	962.4	566.1	283.1
82.5°	118.4	128.7	168.1	202.4	164.7	159.5	152.7	97.8	75.5	58.3
85°	37.7	34.3	36.0	36.0	29.2	22.3	22.3	10.3	0.0	0.0
87.5°	18.9	15.4	15.4	13.7	8.6	3.4	1.7	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: P1049485

CATALOG NUMBER: GALN-SA7A-740-U-LBC

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
99.5	0°	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
92.6	2.5°	90.9	90.9	87.5	84.1	82.3	78.9	77.2	75.5	73.8	72.1
99.5	5°	96.1	94.4	89.2	84.1	78.9	73.8	70.3	66.9	63.5	61.8
109.8	7.5°	104.6	101.2	90.9	82.3	75.5	68.6	65.2	60.0	56.6	51.5
121.8	10°	114.9	108.1	94.4	84.1	73.8	65.2	60.0	54.9	49.7	42.9
139.0	12.5°	128.7	116.7	99.5	82.3	70.3	60.0	54.9	48.0	42.9	37.7
161.3	15°	140.7	125.2	101.2	82.3	66.9	54.9	48.0	41.2	36.0	29.2
202.4	17.5°	157.8	132.1	99.5	77.2	61.8	48.0	41.2	36.0	27.4	17.2
300.2	20°	187.0	137.2	96.1	72.1	53.2	39.5	30.9	24.0	12.0	3.4
451.2	22.5°	233.3	151.0	92.6	65.2	46.3	30.9	20.6	8.6	0.0	0.0
686.2	25°	322.5	175.0	92.6	61.8	41.2	22.3	6.9	0.0	0.0	0.0
974.4	27.5°	428.9	207.6	92.6	53.2	32.6	12.0	0.0	0.0	0.0	0.0
1327.8	30°	536.9	243.6	92.6	46.3	25.7	1.7	0.0	0.0	0.0	0.0
1634.9	32.5°	639.9	274.5	94.4	39.5	17.2	0.0	0.0	0.0	0.0	0.0
2060.3	35°	744.5	279.6	92.6	34.3	10.3	0.0	0.0	0.0	0.0	0.0
2581.8	37.5°	878.3	269.3	87.5	30.9	5.1	0.0	0.0	0.0	0.0	0.0
3396.7	40°	1080.8	274.5	82.3	29.2	1.7	0.0	0.0	0.0	0.0	0.0
4849.7	42.5°	1454.7	296.8	75.5	29.2	0.0	0.0	0.0	0.0	0.0	0.0
7724.8	45°	2514.9	398.0	68.6	30.9	0.0	0.0	0.0	0.0	0.0	0.0
11596.7	47.5°	4160.1	715.4	66.9	30.9	0.0	0.0	0.0	0.0	0.0	0.0
13969.2	50°	5309.4	900.6	70.3	32.6	0.0	0.0	0.0	0.0	0.0	0.0
14266.0	52.5°	5300.9	1003.6	73.8	34.3	6.9	0.0	0.0	0.0	0.0	0.0
13149.2	55°	4712.4	1022.4	78.9	37.7	22.3	0.0	0.0	0.0	0.0	0.0
11299.9	57.5°	3938.8	933.2	90.9	46.3	41.2	0.0	0.0	0.0	0.0	0.0
11010.0	58°	3801.5	892.1	94.4	48.0	44.6	0.0	0.0	0.0	0.0	0.0
9550.1	60°	3115.3	727.4	120.1	60.0	60.0	0.0	0.0	0.0	0.0	0.0
7829.5	62.5°	2151.2	634.7	137.2	77.2	61.8	0.0	0.0	0.0	0.0	0.0
5772.6	65°	1521.6	573.0	149.2	82.3	49.7	0.0	0.0	0.0	0.0	0.0
4101.7	67.5°	1137.4	528.4	164.7	84.1	25.7	0.0	0.0	0.0	0.0	0.0
2573.2	70°	871.5	495.8	202.4	89.2	6.9	0.0	0.0	0.0	0.0	0.0
1533.6	72.5°	710.2	458.0	245.3	92.6	0.0	0.0	0.0	0.0	0.0	0.0
919.5	75°	588.4	413.4	236.7	101.2	0.0	0.0	0.0	0.0	0.0	0.0
490.6	77.5°	391.1	320.8	216.2	101.2	0.0	0.0	0.0	0.0	0.0	0.0
175.0	80°	137.2	126.9	168.1	89.2	0.0	0.0	0.0	0.0	0.0	0.0
36.0	82.5°	20.6	17.2	24.0	30.9	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: P1049485

CATALOG NUMBER: GALN-SA7A-740-U-LBC

CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
99.5	0°	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
70.3	2.5°	70.3	70.3	68.6	70.3	70.3	73.8	82.3	94.4	108.1	113.2
60.0	5°	58.3	56.6	54.9	54.9	54.9	60.0	66.9	80.6	96.1	102.9
49.7	7.5°	48.0	46.3	44.6	42.9	42.9	46.3	54.9	70.3	85.8	92.6
41.2	10°	39.5	36.0	34.3	32.6	32.6	36.0	44.6	60.0	77.2	84.1
34.3	12.5°	32.6	27.4	24.0	22.3	20.6	25.7	34.3	48.0	66.9	75.5
25.7	15°	22.3	17.2	12.0	10.3	8.6	13.7	22.3	37.7	56.6	66.9
13.7	17.5°	12.0	5.1	1.7	0.0	0.0	3.4	10.3	27.4	46.3	54.9
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.7	34.3	42.9
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	20.6	29.2
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	15.4
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
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	5.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	13.7
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: P1049485

CATALOG NUMBER: GALN-SA7A-740-U-LBC

CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
99.5	0°	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
118.4	2.5°	121.8	120.1	116.7	113.2	113.2	113.2	118.4	123.5	128.7	128.7
106.4	5°	113.2	113.2	111.5	108.1	108.1	109.8	116.7	125.2	132.1	133.8
97.8	7.5°	104.6	108.1	104.6	102.9	104.6	106.4	113.2	123.5	133.8	137.2
90.9	10°	99.5	101.2	101.2	99.5	99.5	102.9	109.8	123.5	137.2	142.4
82.3	12.5°	92.6	96.1	94.4	94.4	94.4	97.8	106.4	121.8	140.7	147.5
73.8	15°	85.8	90.9	90.9	89.2	89.2	90.9	102.9	120.1	145.8	157.8
63.5	17.5°	78.9	84.1	85.8	82.3	82.3	85.8	97.8	120.1	149.2	169.8
51.5	20°	65.2	73.8	78.9	73.8	73.8	77.2	89.2	113.2	151.0	181.8
37.7	22.5°	51.5	60.0	66.9	65.2	65.2	66.9	82.3	108.1	152.7	202.4
22.3	25°	37.7	46.3	51.5	54.9	54.9	60.0	75.5	104.6	159.5	245.3
10.3	27.5°	22.3	32.6	39.5	42.9	44.6	51.5	70.3	101.2	171.5	307.1
0.0	30°	10.3	18.9	27.4	34.3	34.3	46.3	65.2	97.8	187.0	396.3
0.0	32.5°	0.0	8.6	13.7	24.0	25.7	37.7	60.0	94.4	209.3	482.1
0.0	35°	0.0	0.0	6.9	18.9	18.9	30.9	54.9	90.9	243.6	547.2
0.0	37.5°	0.0	0.0	0.0	13.7	15.4	27.4	53.2	89.2	250.5	552.4
0.0	40°	0.0	0.0	0.0	10.3	12.0	25.7	53.2	90.9	226.4	540.4
0.0	42.5°	0.0	0.0	0.0	6.9	8.6	25.7	53.2	94.4	204.1	554.1
0.0	45°	0.0	0.0	0.0	5.1	6.9	27.4	51.5	92.6	192.1	626.2
0.0	47.5°	0.0	0.0	0.0	6.9	10.3	27.4	49.7	90.9	193.8	864.6
0.0	50°	0.0	0.0	0.0	8.6	12.0	27.4	51.5	87.5	212.7	1329.5
0.0	52.5°	0.0	0.0	0.0	6.9	10.3	30.9	56.6	85.8	231.6	1729.2
0.0	55°	0.0	0.0	0.0	1.7	5.1	39.5	61.8	85.8	260.8	1828.7
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	44.6	70.3	90.9	308.8	1789.3
0.0	58°	0.0	0.0	0.0	0.0	0.0	44.6	72.1	90.9	312.2	1754.9
0.0	60°	0.0	0.0	0.0	0.0	0.0	44.6	78.9	101.2	336.2	1562.8
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	37.7	94.4	126.9	350.0	1228.3
0.0	65°	0.0	0.0	0.0	0.0	0.0	30.9	111.5	139.0	360.3	977.8
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	29.2	114.9	140.7	365.4	778.8
0.0	70°	0.0	0.0	0.0	0.0	0.0	30.9	113.2	151.0	382.6	633.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	34.3	102.9	166.4	382.6	561.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	36.0	96.1	187.0	348.2	485.5
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	34.3	94.4	217.9	310.5	399.7
0.0	80°	3.4	5.1	5.1	3.4	3.4	29.2	92.6	221.3	264.2	274.5
1.7	82.5°	10.3	13.7	12.0	8.6	8.6	25.7	82.3	185.3	137.2	118.4
10.3	85°	18.9	22.3	22.3	18.9	18.9	24.0	51.5	66.9	46.3	37.7
18.9	87.5°	25.7	29.2	29.2	25.7	25.7	24.0	22.3	20.6	18.9	18.9
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: SP1-2407-184-1

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-740-U-5WQ

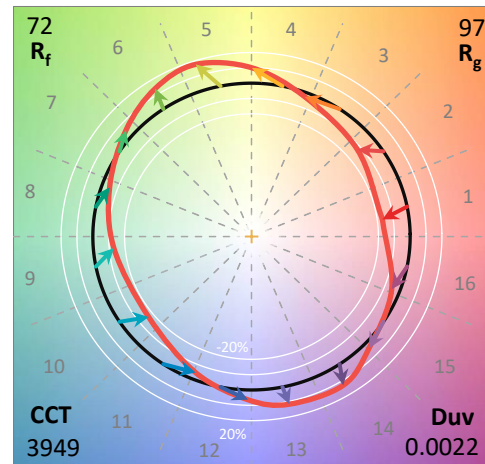
Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-1
 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-740-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 4000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3949	CRI (Ra):	70.7		
CIE u':	0.2248	R1:	68.0	R9:	-36.7
CIE v':	0.5053	R2:	76.0	R10:	45.1
Duv:	0.0022	R3:	84.3	R11:	70.7
CIE x:	0.3844	R4:	72.0	R12:	47.1
CIE y:	0.3840	R5:	68.6	R13:	68.5
CIE z:	0.2316	R6:	68.3	R14:	91.1
Peak Wavelength (nm):	440	R7:	77.9	R15:	58.7
Dominant Wavelength (nm):	578	R8:	50.3		
Purity:	30.60026				
Rf:	71.8				
Rg:	96.5				



Test Conditions

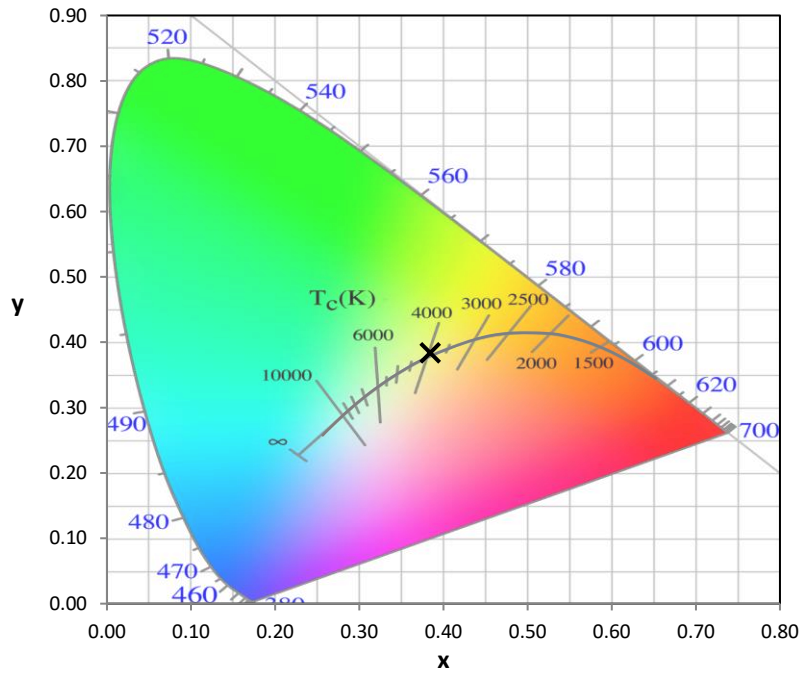
Stabilization Time: 34M
 Operation Time: 1H 34M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-1

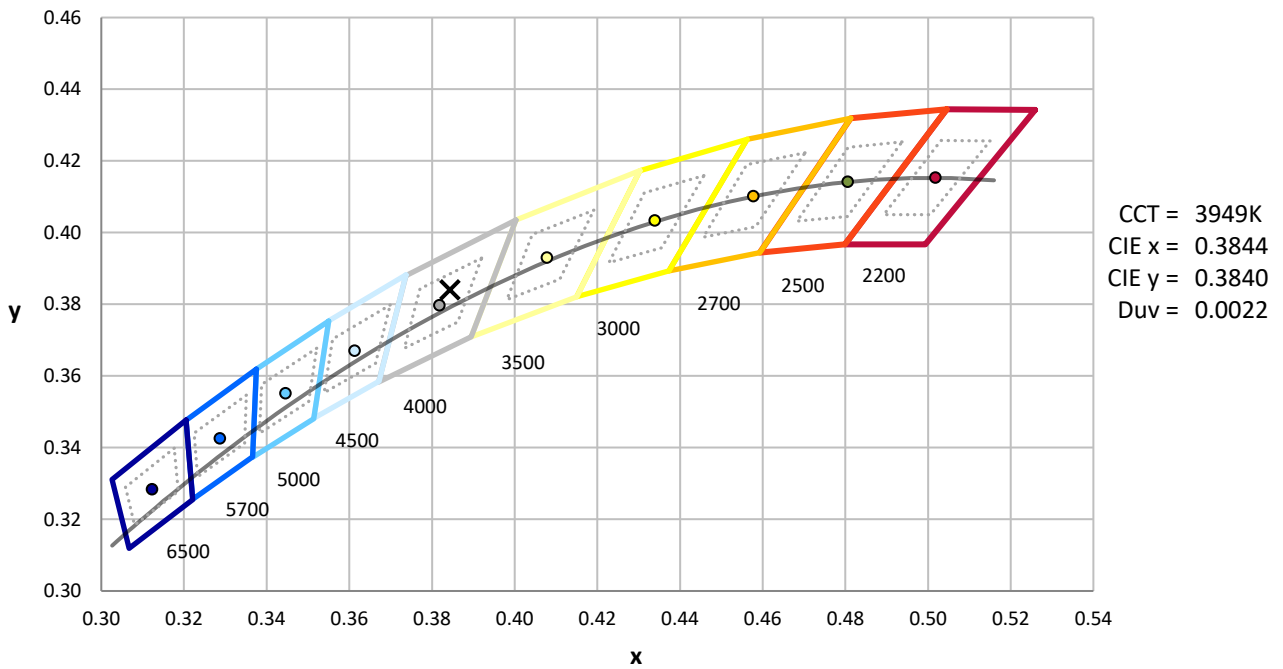
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-1

CIE 1931 Chromaticity Diagram



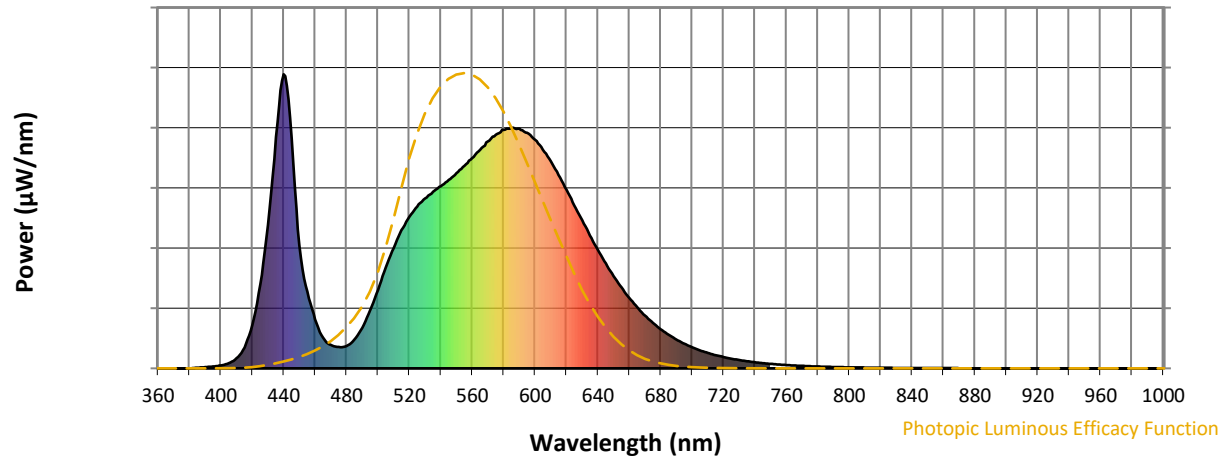
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-1

Photopic Flux vs. Wavelength

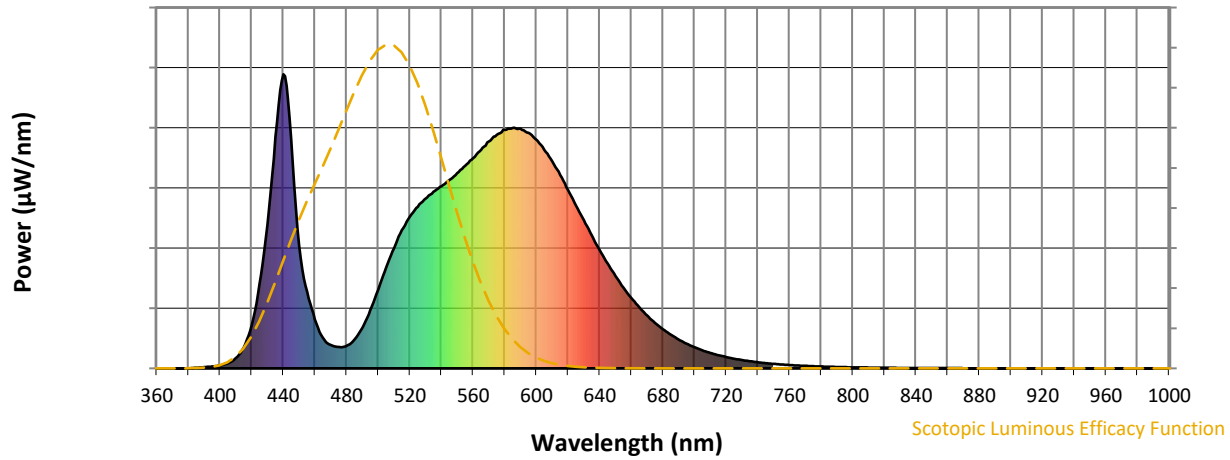


Photopic Lumens: NR

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Scotopic Flux vs. Wavelength



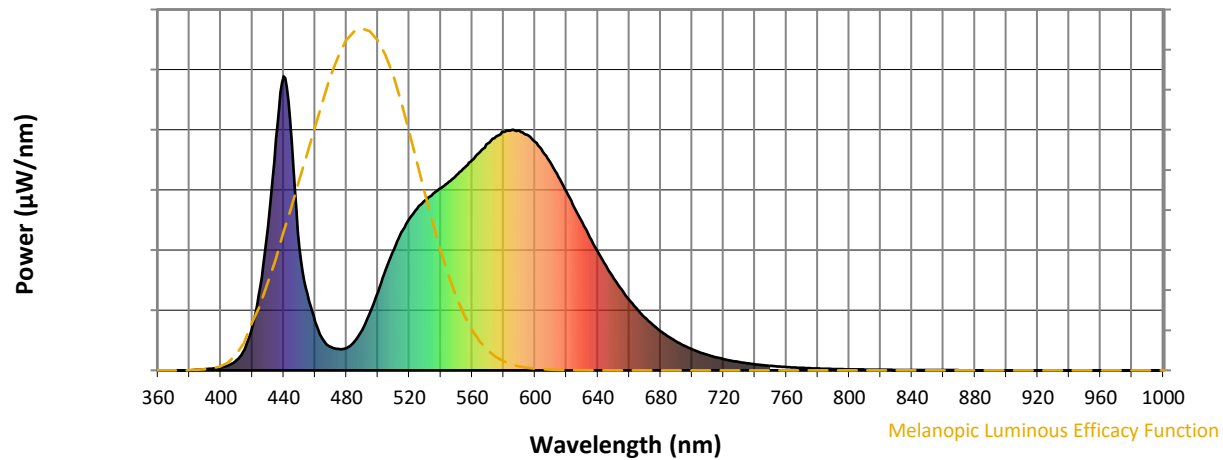
Scotopic Lumens: NR

S/P: 1.47

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.78

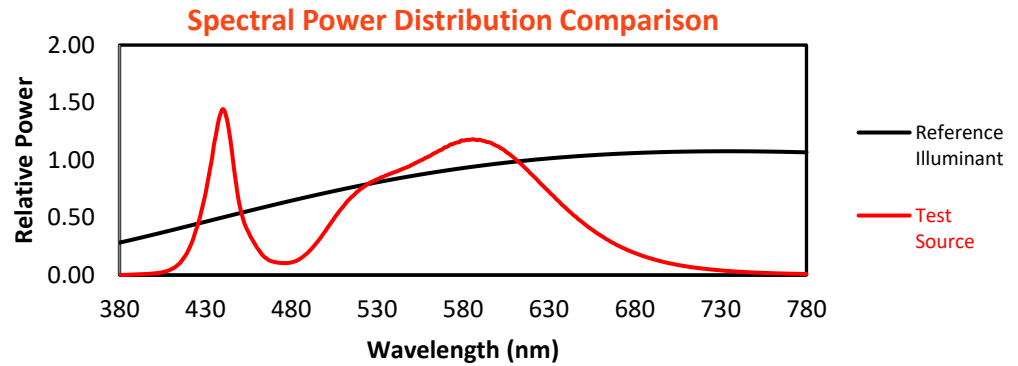
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

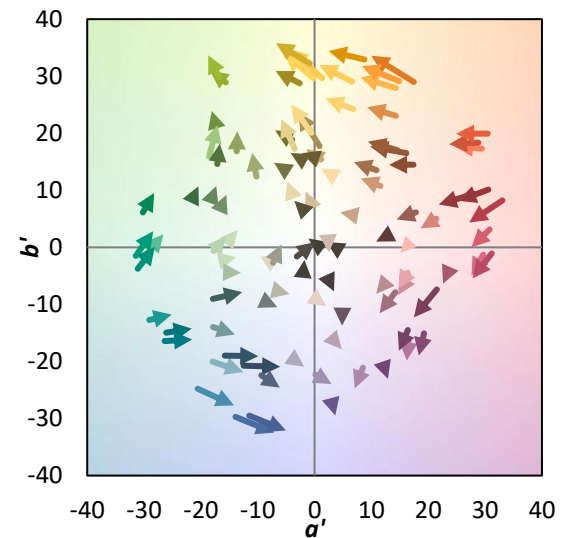
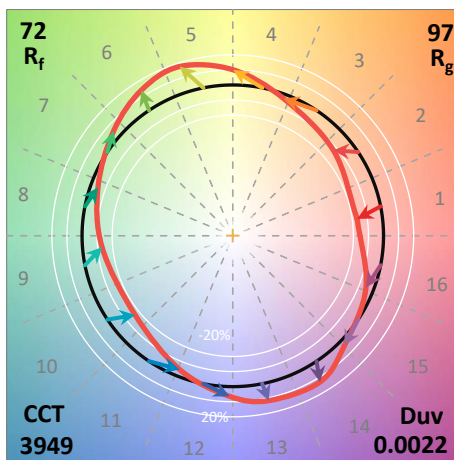
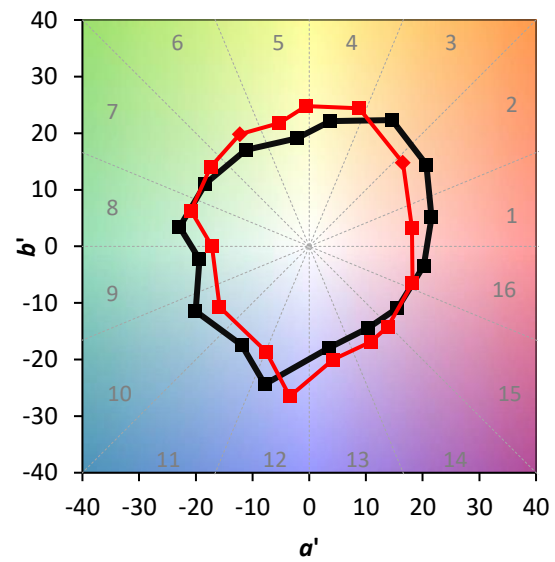
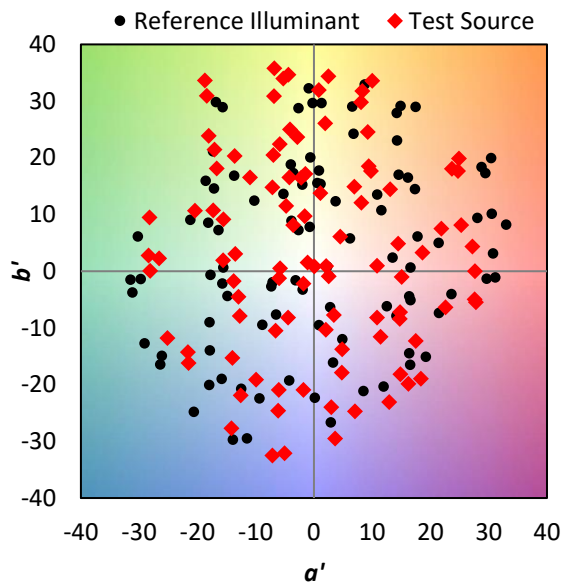
TM-30-18

Summary

$R_f = 71.8$
 $R_g = 96.5$
 $CIE R_a = 70.7$
 $R_g = -36.7$

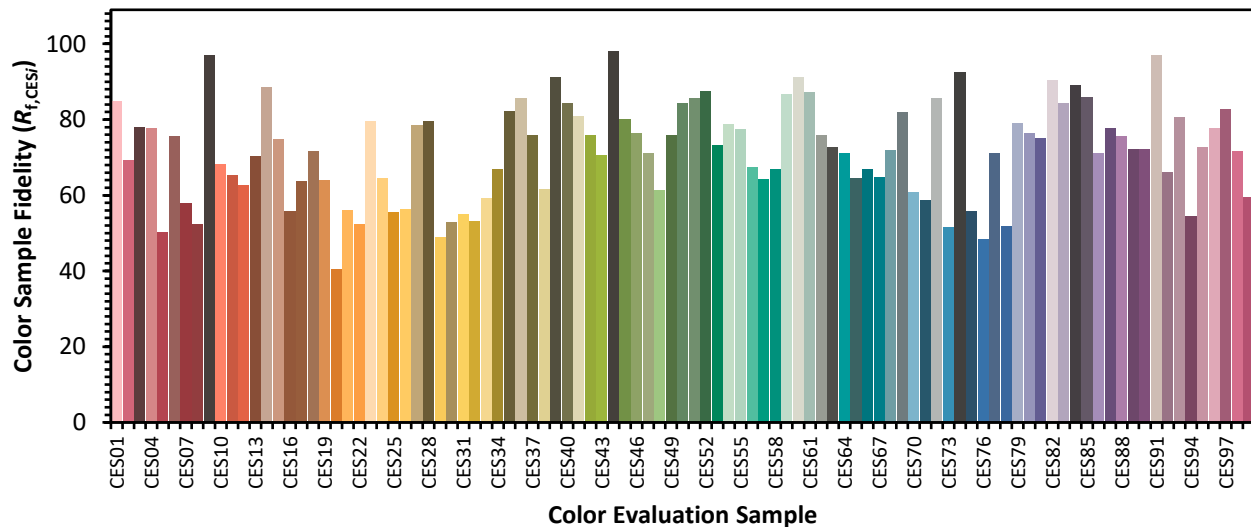


Color Vector Graphics

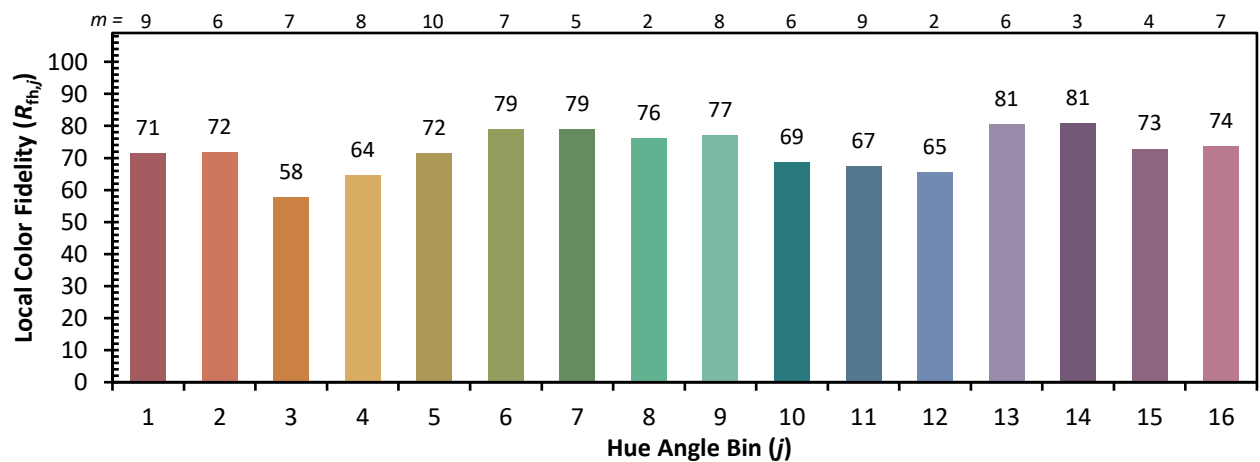
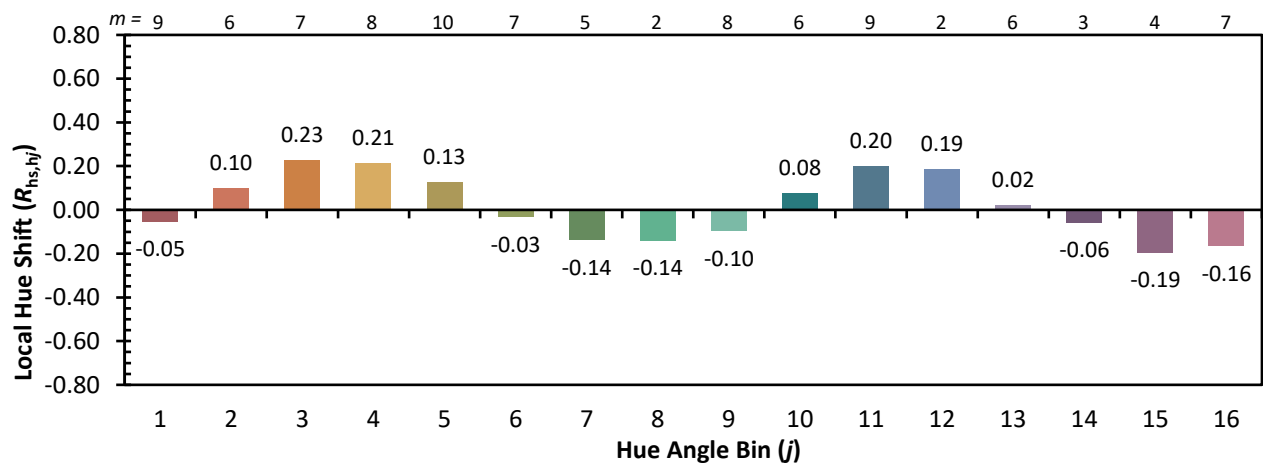
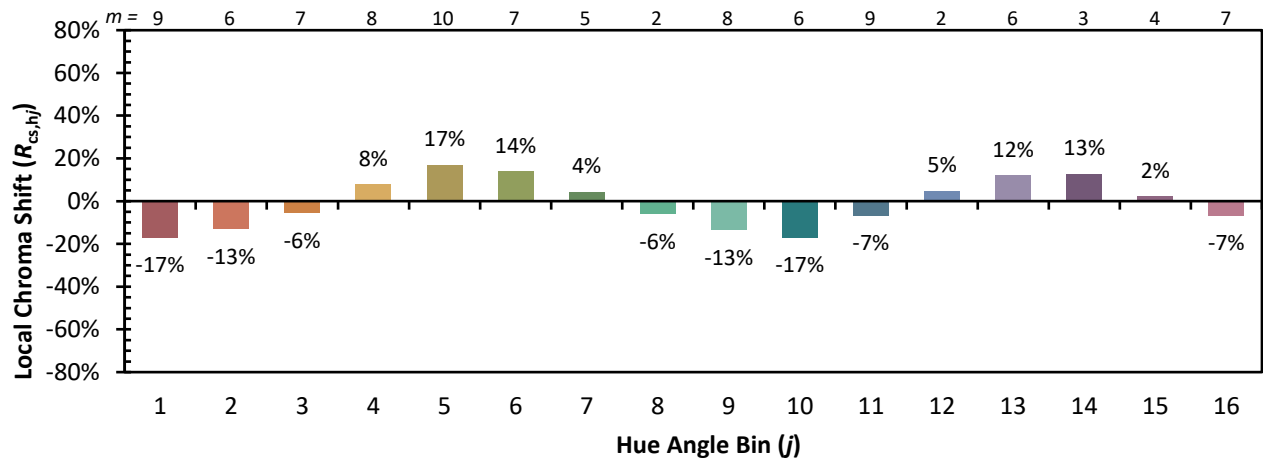


Individual Sample Fidelity Index ($R_{f,i}$)

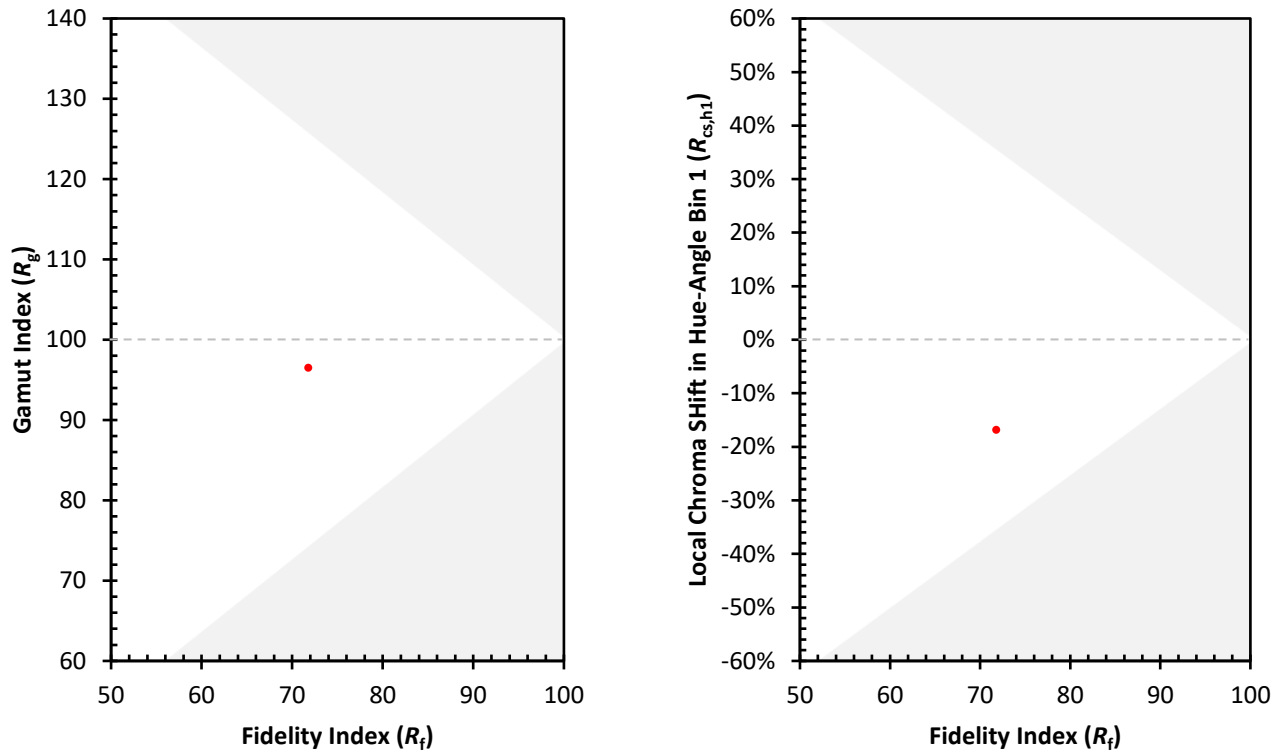
CES01 = 85	CES26 = 56	CES51 = 86	CES76 = 48
CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 64	CES82 = 90
CES08 = 39	CES33 = 59	CES58 = 67	CES83 = 84
CES09 = 29	CES34 = 67	CES59 = 87	CES84 = 89
CES10 = 74	CES35 = 82	CES60 = 91	CES85 = 86
CES11 = 57	CES36 = 86	CES61 = 87	CES86 = 71
CES12 = 63	CES37 = 76	CES62 = 76	CES87 = 78
CES13 = 42	CES38 = 62	CES63 = 73	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 71	CES89 = 72
CES15 = 71	CES40 = 84	CES65 = 64	CES90 = 72
CES16 = 46	CES41 = 81	CES66 = 67	CES91 = 97
CES17 = 49	CES42 = 76	CES67 = 65	CES92 = 66
CES18 = 56	CES43 = 71	CES68 = 72	CES93 = 81
CES19 = 72	CES44 = 98	CES69 = 82	CES94 = 55
CES20 = 65	CES45 = 80	CES70 = 61	CES95 = 73
CES21 = 86	CES46 = 76	CES71 = 59	CES96 = 78
CES22 = 78	CES47 = 71	CES72 = 86	CES97 = 83
CES23 = 92	CES48 = 61	CES73 = 52	CES98 = 72
CES24 = 91	CES49 = 76	CES74 = 93	CES99 = 60
CES25 = 72	CES50 = 84	CES75 = 56	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)