

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: P1049962

Luminaire Tested: **GALN-SA9B-930-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049962
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-930-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 9xLight Square PACKAGE
90CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (126) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24976.9 lumens
Efficiency: N/A
Efficacy: 79.9 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

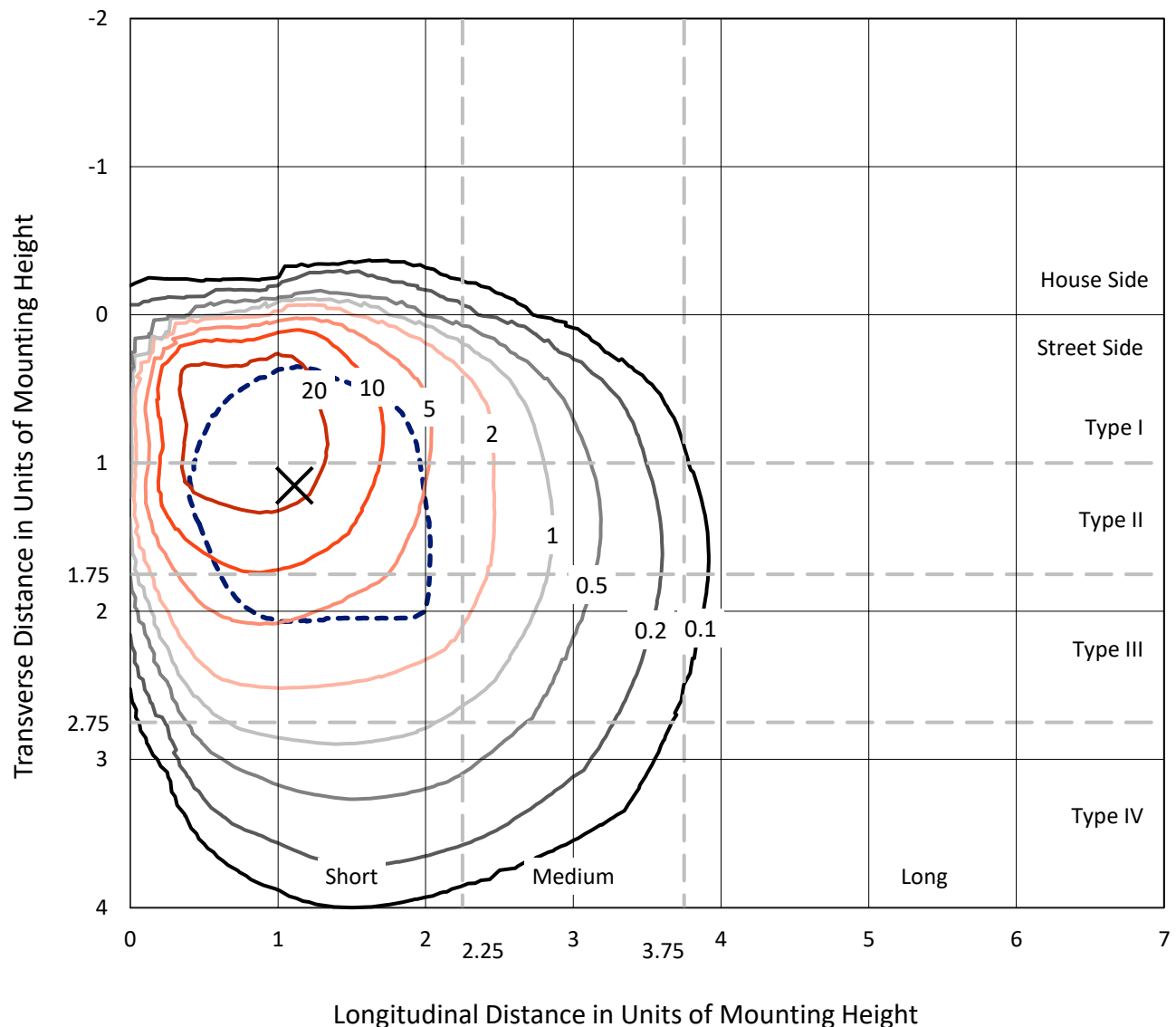
Input Watts (W): 312.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

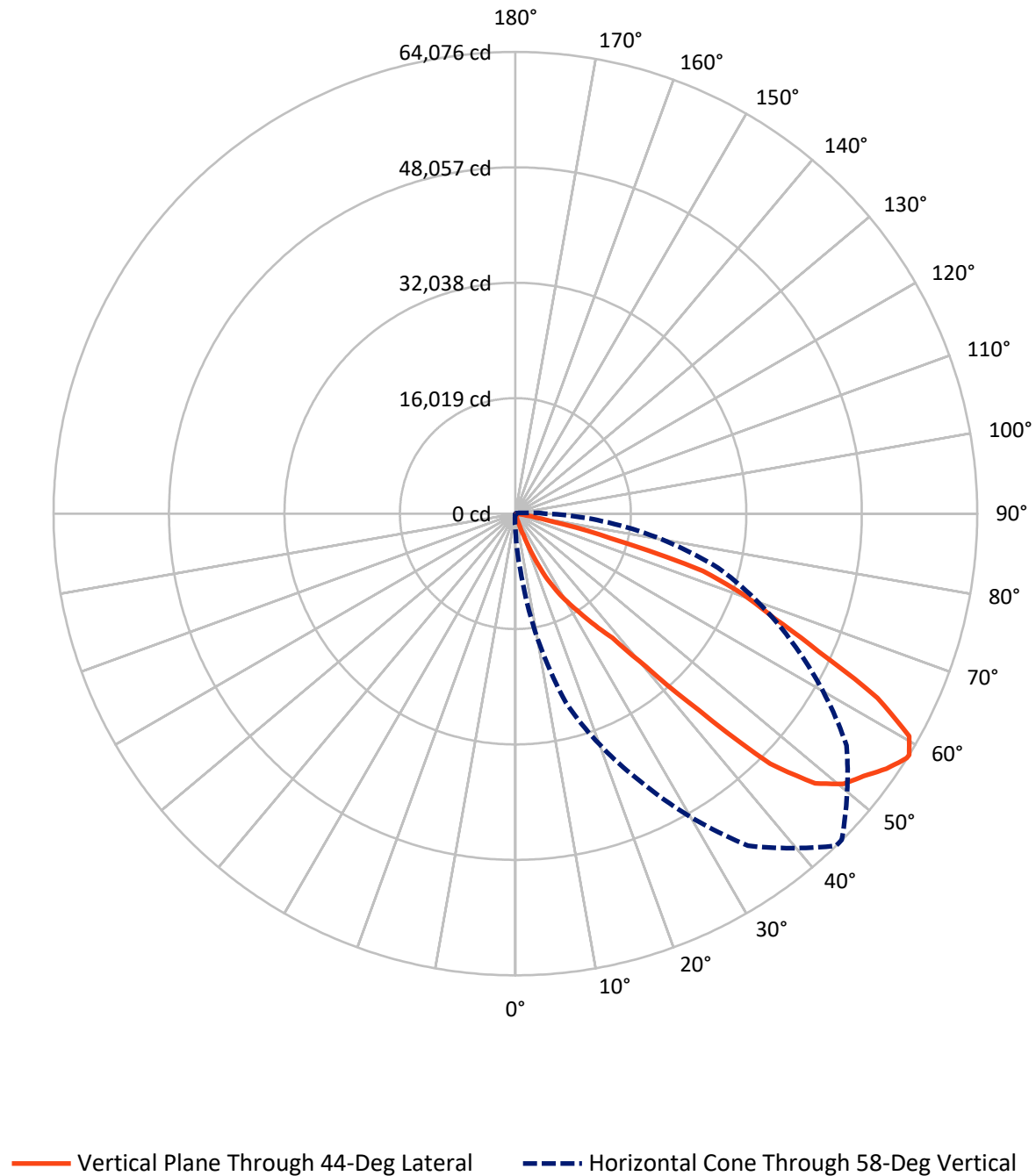
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 43.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	170.5	0.0	170.5
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	24806.4	0.0	24806.4
	% Fixture	99.3	0.0	99.3
Total	Lumens	24976.9	0.0	24976.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.8	0.0
10°-20°	54.8	0.2
20°-30°	591.7	2.4
30°-40°	1749.9	7.0
40°-50°	5215.6	20.9
50°-60°	8275.9	33.1
60°-70°	6903.1	27.6
70°-80°	2129.0	8.5
80°-90°	47.3	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	24976.9	100.0
0°-180°	24976.9	100.0

Coefficient of Utilization



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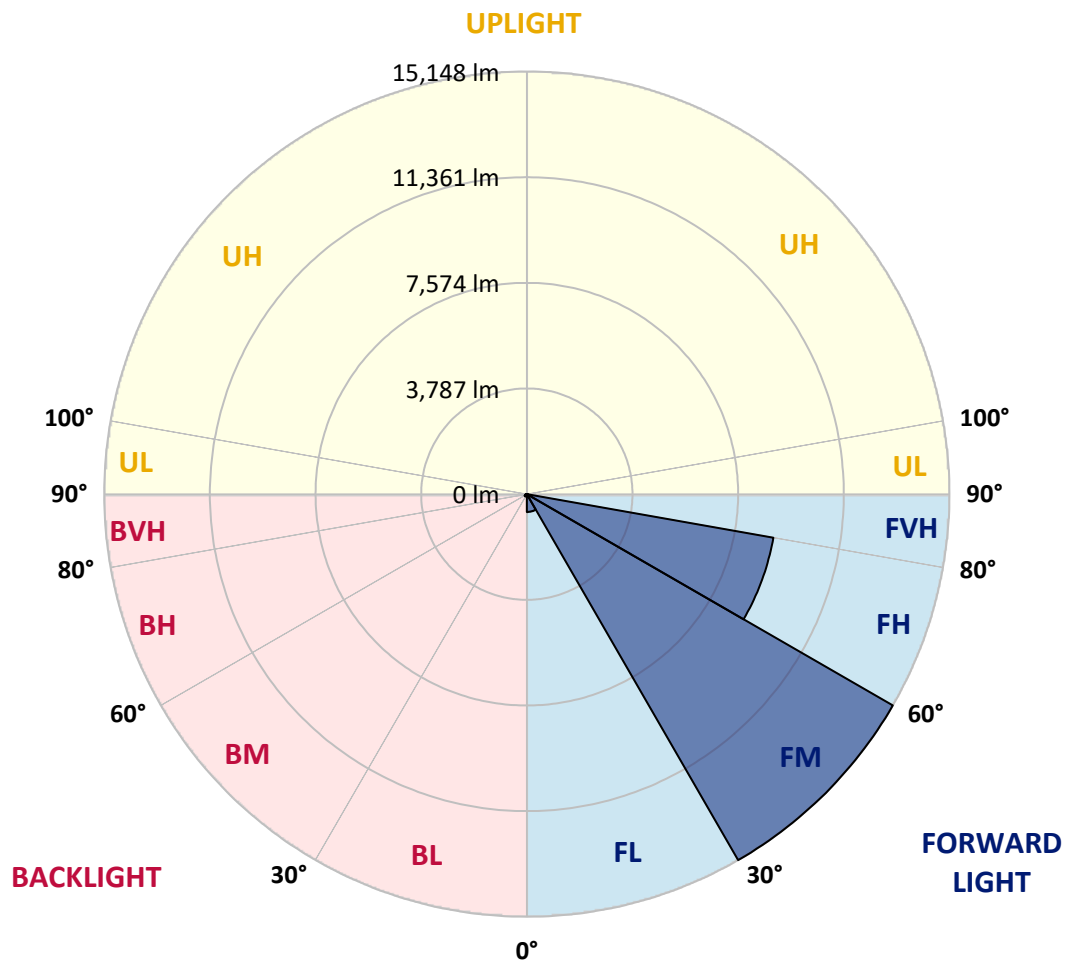
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	639.6	2.6			
FM	(30°-60°)	15148.0	60.6			
FH	(60°-80°)	8973.9	35.9			G4/12000
FVH	(80°-90°)	45.0	0.2			G1/100
BL	(0°-30°)	16.7	0.1	B0/110		
BM	(30°-60°)	93.3	0.4	B0/220		
BH	(60°-80°)	58.2	0.2	B0/110		G0/110
BVH	(80°-90°)	2.3	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°	109.4	109.4	109.4	109.4	109.4	109.4	109.4	109.4	109.4	109.4
2.5°	141.5	141.5	135.8	128.3	120.8	113.2	111.3	107.5	105.7	103.8
5°	147.2	147.2	145.3	139.6	132.1	126.4	126.4	120.8	117.0	113.2
7.5°	150.9	152.8	156.6	154.7	150.9	145.3	145.3	141.5	135.8	126.4
10°	156.6	162.3	169.8	173.6	175.5	175.5	173.6	171.7	162.3	149.1
12.5°	162.3	173.6	192.5	211.3	222.6	237.7	235.8	232.1	207.5	179.2
15°	173.6	190.6	230.2	284.9	369.8	422.6	443.4	424.5	343.4	241.5
17.5°	186.8	215.1	334.0	596.2	977.4	1158.5	1267.9	1179.2	781.1	458.5
20°	200.0	262.3	620.8	1545.3	2535.9	3128.3	3292.5	3035.9	1949.1	873.6
22.5°	222.6	367.9	1258.5	3194.3	5464.2	6352.8	6520.8	5700.0	3681.1	1724.5
25°	269.8	534.0	2169.8	5205.7	8154.7	9654.7	9584.9	8509.5	5971.7	2754.7
27.5°	337.7	777.4	3281.1	7396.2	10732.1	12054.7	12213.2	10883.0	7960.4	4051.0
30°	435.9	1077.4	4473.6	9151.0	12798.1	14228.3	14254.8	12879.3	9739.6	5188.7
32.5°	530.2	1360.4	5517.0	10847.2	14834.0	16401.9	16518.9	14826.5	11068.0	6373.6
35°	601.9	1545.3	6573.6	12337.8	16886.8	19047.2	19039.7	17030.2	12641.5	7432.1
37.5°	607.5	1730.2	7530.2	13862.3	19486.8	21905.7	22145.3	19930.2	14543.4	8741.5
40°	594.3	1937.7	8741.5	16239.7	24171.8	27883.1	28094.4	25301.9	18358.5	10983.0
42.5°	609.4	2298.1	10707.6	20630.2	31951.0	37281.2	37688.8	34752.9	25371.8	15556.6
45°	688.7	2975.5	14826.5	27975.5	43039.7	49537.9	49402.0	45173.7	33532.2	22518.9
47.5°	950.9	4634.0	20932.1	35124.6	50126.5	55913.3	56030.3	50862.4	38294.4	27871.8
50°	1462.3	7090.6	26062.3	38903.9	53173.7	58979.4	58870.0	52898.2	40103.9	30507.6
52.5°	1901.9	8867.9	28635.9	40230.3	53564.3	60494.5	60486.9	53434.1	40385.0	30734.0
55°	2011.3	9001.9	28656.7	40302.0	54439.8	62477.5	62726.6	54753.0	40749.2	29745.4
57.5°	1967.9	7969.8	27460.4	40717.1	55998.2	64011.5	64024.7	56030.3	41673.7	29139.7
58°	1930.2	7807.6	27218.9	40952.9	56266.2	64075.6	64043.5	56088.8	42426.5	29117.1
60°	1718.9	6779.3	26277.4	41554.8	55868.1	62758.6	62458.6	54811.5	42315.2	28885.0
62.5°	1350.9	5288.7	25351.0	40858.6	51600.1	56383.2	56507.7	48526.5	38575.6	27532.1
65°	1075.5	3941.5	23418.9	35839.7	42490.7	46302.0	46766.1	39460.5	32198.2	23313.3
67.5°	856.6	2849.1	19645.3	28534.0	33622.7	38643.5	38981.2	33130.3	24945.3	17862.3
70°	696.2	1926.4	13560.4	20868.0	27732.1	33377.4	33398.2	27522.7	18618.9	11703.8
72.5°	617.0	1334.0	7871.7	15218.9	22486.8	27198.2	26649.1	22334.0	14309.5	6932.1
75°	534.0	884.9	3860.4	9303.8	13634.0	13726.4	13935.9	10360.4	7152.8	3296.2
77.5°	439.6	628.3	1520.8	2541.5	4088.7	5234.0	5428.3	4113.2	2379.3	811.3
80°	301.9	298.1	409.4	779.2	1169.8	1466.0	1367.9	1058.5	622.6	311.3
82.5°	130.2	141.5	184.9	222.6	181.1	175.5	167.9	107.5	83.0	64.2
85°	41.5	37.7	39.6	39.6	32.1	24.5	24.5	11.3	0.0	0.0
87.5°	20.8	17.0	17.0	15.1	9.4	3.8	1.9	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°
109.4	0°	109.4	109.4	109.4	109.4	109.4	109.4	109.4	109.4	109.4	109.4
101.9	2.5°	100.0	100.0	96.2	92.5	90.6	86.8	84.9	83.0	81.1	79.2
109.4	5°	105.7	103.8	98.1	92.5	86.8	81.1	77.4	73.6	69.8	67.9
120.8	7.5°	115.1	111.3	100.0	90.6	83.0	75.5	71.7	66.0	62.3	56.6
134.0	10°	126.4	118.9	103.8	92.5	81.1	71.7	66.0	60.4	54.7	47.2
152.8	12.5°	141.5	128.3	109.4	90.6	77.4	66.0	60.4	52.8	47.2	41.5
177.4	15°	154.7	137.7	111.3	90.6	73.6	60.4	52.8	45.3	39.6	32.1
222.6	17.5°	173.6	145.3	109.4	84.9	67.9	52.8	45.3	39.6	30.2	18.9
330.2	20°	205.7	150.9	105.7	79.2	58.5	43.4	34.0	26.4	13.2	3.8
496.2	22.5°	256.6	166.0	101.9	71.7	50.9	34.0	22.6	9.4	0.0	0.0
754.7	25°	354.7	192.5	101.9	67.9	45.3	24.5	7.5	0.0	0.0	0.0
1071.7	27.5°	471.7	228.3	101.9	58.5	35.8	13.2	0.0	0.0	0.0	0.0
1460.4	30°	590.6	267.9	101.9	50.9	28.3	1.9	0.0	0.0	0.0	0.0
1798.1	32.5°	703.8	301.9	103.8	43.4	18.9	0.0	0.0	0.0	0.0	0.0
2266.0	35°	818.9	307.5	101.9	37.7	11.3	0.0	0.0	0.0	0.0	0.0
2839.6	37.5°	966.0	296.2	96.2	34.0	5.7	0.0	0.0	0.0	0.0	0.0
3735.9	40°	1188.7	301.9	90.6	32.1	1.9	0.0	0.0	0.0	0.0	0.0
5334.0	42.5°	1600.0	326.4	83.0	32.1	0.0	0.0	0.0	0.0	0.0	0.0
8496.2	45°	2766.0	437.7	75.5	34.0	0.0	0.0	0.0	0.0	0.0	0.0
12754.7	47.5°	4575.5	786.8	73.6	34.0	0.0	0.0	0.0	0.0	0.0	0.0
15364.2	50°	5839.6	990.6	77.4	35.8	0.0	0.0	0.0	0.0	0.0	0.0
15690.6	52.5°	5830.2	1103.8	81.1	37.7	7.5	0.0	0.0	0.0	0.0	0.0
14462.3	55°	5183.0	1124.5	86.8	41.5	24.5	0.0	0.0	0.0	0.0	0.0
12428.3	57.5°	4332.1	1026.4	100.0	50.9	45.3	0.0	0.0	0.0	0.0	0.0
12109.5	58°	4181.1	981.1	103.8	52.8	49.1	0.0	0.0	0.0	0.0	0.0
10503.8	60°	3426.4	800.0	132.1	66.0	66.0	0.0	0.0	0.0	0.0	0.0
8611.3	62.5°	2366.0	698.1	150.9	84.9	67.9	0.0	0.0	0.0	0.0	0.0
6349.1	65°	1673.6	630.2	164.2	90.6	54.7	0.0	0.0	0.0	0.0	0.0
4511.3	67.5°	1250.9	581.1	181.1	92.5	28.3	0.0	0.0	0.0	0.0	0.0
2830.2	70°	958.5	545.3	222.6	98.1	7.5	0.0	0.0	0.0	0.0	0.0
1686.8	72.5°	781.1	503.8	269.8	101.9	0.0	0.0	0.0	0.0	0.0	0.0
1011.3	75°	647.2	454.7	260.4	111.3	0.0	0.0	0.0	0.0	0.0	0.0
539.6	77.5°	430.2	352.8	237.7	111.3	0.0	0.0	0.0	0.0	0.0	0.0
192.5	80°	150.9	139.6	184.9	98.1	0.0	0.0	0.0	0.0	0.0	0.0
39.6	82.5°	22.6	18.9	26.4	34.0	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	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°
109.4	0°	109.4	109.4	109.4	109.4	109.4	109.4	109.4	109.4	109.4	109.4
77.4	2.5°	77.4	77.4	75.5	77.4	77.4	81.1	90.6	103.8	118.9	124.5
66.0	5°	64.2	62.3	60.4	60.4	60.4	66.0	73.6	88.7	105.7	113.2
54.7	7.5°	52.8	50.9	49.1	47.2	47.2	50.9	60.4	77.4	94.3	101.9
45.3	10°	43.4	39.6	37.7	35.8	35.8	39.6	49.1	66.0	84.9	92.5
37.7	12.5°	35.8	30.2	26.4	24.5	22.6	28.3	37.7	52.8	73.6	83.0
28.3	15°	24.5	18.9	13.2	11.3	9.4	15.1	24.5	41.5	62.3	73.6
15.1	17.5°	13.2	5.7	1.9	0.0	0.0	3.8	11.3	30.2	50.9	60.4
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.1	37.7	47.2
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	22.6	32.1
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	17.0
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
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	5.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	15.1
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°
109.4	0°	109.4	109.4	109.4	109.4	109.4	109.4	109.4	109.4	109.4	109.4
130.2	2.5°	134.0	132.1	128.3	124.5	124.5	124.5	130.2	135.8	141.5	141.5
117.0	5°	124.5	124.5	122.6	118.9	118.9	120.8	128.3	137.7	145.3	147.2
107.5	7.5°	115.1	118.9	115.1	113.2	115.1	117.0	124.5	135.8	147.2	150.9
100.0	10°	109.4	111.3	111.3	109.4	109.4	113.2	120.8	135.8	150.9	156.6
90.6	12.5°	101.9	105.7	103.8	103.8	103.8	107.5	117.0	134.0	154.7	162.3
81.1	15°	94.3	100.0	100.0	98.1	98.1	100.0	113.2	132.1	160.4	173.6
69.8	17.5°	86.8	92.5	94.3	90.6	90.6	94.3	107.5	132.1	164.2	186.8
56.6	20°	71.7	81.1	86.8	81.1	81.1	84.9	98.1	124.5	166.0	200.0
41.5	22.5°	56.6	66.0	73.6	71.7	71.7	73.6	90.6	118.9	167.9	222.6
24.5	25°	41.5	50.9	56.6	60.4	60.4	66.0	83.0	115.1	175.5	269.8
11.3	27.5°	24.5	35.8	43.4	47.2	49.1	56.6	77.4	111.3	188.7	337.7
0.0	30°	11.3	20.8	30.2	37.7	37.7	50.9	71.7	107.5	205.7	435.9
0.0	32.5°	0.0	9.4	15.1	26.4	28.3	41.5	66.0	103.8	230.2	530.2
0.0	35°	0.0	0.0	7.5	20.8	20.8	34.0	60.4	100.0	267.9	601.9
0.0	37.5°	0.0	0.0	0.0	15.1	17.0	30.2	58.5	98.1	275.5	607.5
0.0	40°	0.0	0.0	0.0	11.3	13.2	28.3	58.5	100.0	249.1	594.3
0.0	42.5°	0.0	0.0	0.0	7.5	9.4	28.3	58.5	103.8	224.5	609.4
0.0	45°	0.0	0.0	0.0	5.7	7.5	30.2	56.6	101.9	211.3	688.7
0.0	47.5°	0.0	0.0	0.0	7.5	11.3	30.2	54.7	100.0	213.2	950.9
0.0	50°	0.0	0.0	0.0	9.4	13.2	30.2	56.6	96.2	234.0	1462.3
0.0	52.5°	0.0	0.0	0.0	7.5	11.3	34.0	62.3	94.3	254.7	1901.9
0.0	55°	0.0	0.0	0.0	1.9	5.7	43.4	67.9	94.3	286.8	2011.3
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	49.1	77.4	100.0	339.6	1967.9
0.0	58°	0.0	0.0	0.0	0.0	0.0	49.1	79.2	100.0	343.4	1930.2
0.0	60°	0.0	0.0	0.0	0.0	0.0	49.1	86.8	111.3	369.8	1718.9
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	41.5	103.8	139.6	384.9	1350.9
0.0	65°	0.0	0.0	0.0	0.0	0.0	34.0	122.6	152.8	396.2	1075.5
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	32.1	126.4	154.7	401.9	856.6
0.0	70°	0.0	0.0	0.0	0.0	0.0	34.0	124.5	166.0	420.8	696.2
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	37.7	113.2	183.0	420.8	617.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	39.6	105.7	205.7	383.0	534.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	37.7	103.8	239.6	341.5	439.6
0.0	80°	3.8	5.7	5.7	3.8	3.8	32.1	101.9	243.4	290.6	301.9
1.9	82.5°	11.3	15.1	13.2	9.4	9.4	28.3	90.6	203.8	150.9	130.2
11.3	85°	20.8	24.5	24.5	20.8	20.8	26.4	56.6	73.6	50.9	41.5
20.8	87.5°	28.3	32.1	32.1	28.3	28.3	26.4	24.5	22.6	20.8	20.8
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: SP1-2407-184-14

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-930-U-5WQ

Data in this report applies to families of products including GSS-SB1A-930-U-5WQ

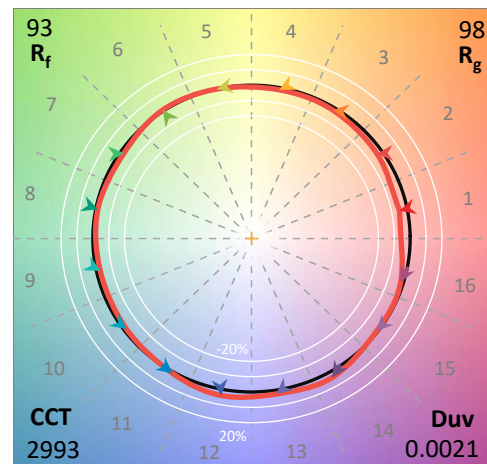
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-14
 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-930-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 2993
 CIE u' : 0.2501
 CIE v' : 0.5245
 Duv: 0.0021
 CIE x: 0.4406
 CIE y: 0.4107
 CIE z: 0.1487
 Peak Wavelength (nm): 621
 Dominant Wavelength (nm): 582
 Purity: 55.53327
 R_f: 92.6
 R_g: 98.5

CRI (Ra): 92.4
 R1: 92.2
 R2: 95.2
 R3: 97.0
 R4: 93.1
 R5: 91.7
 R6: 94.2
 R7: 93.3
 R8: 82.3
 R9: 58.2
 R10: 87.7
 R11: 93.5
 R12: 81.7
 R13: 92.9
 R14: 97.6
 R15: 88.1



Test Conditions

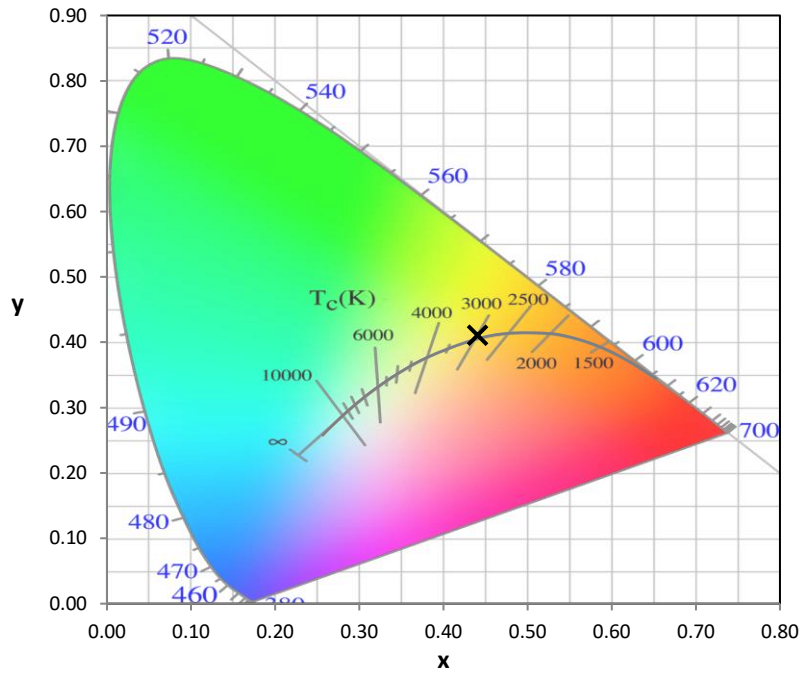
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-14

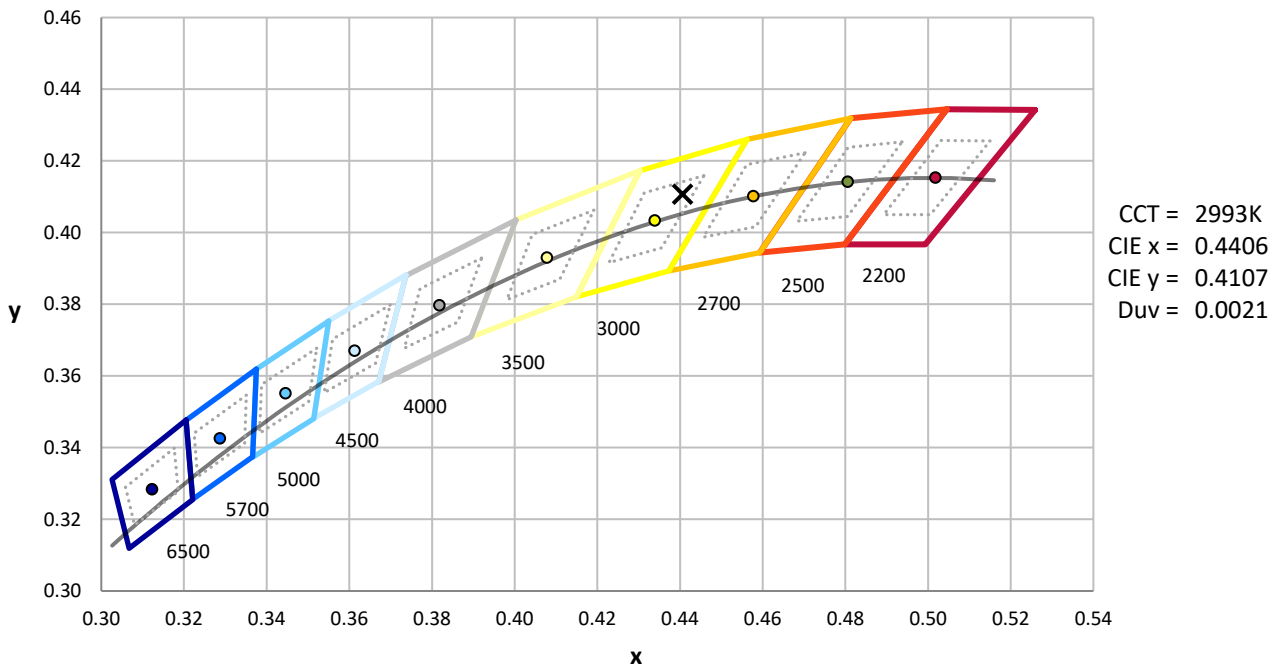
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



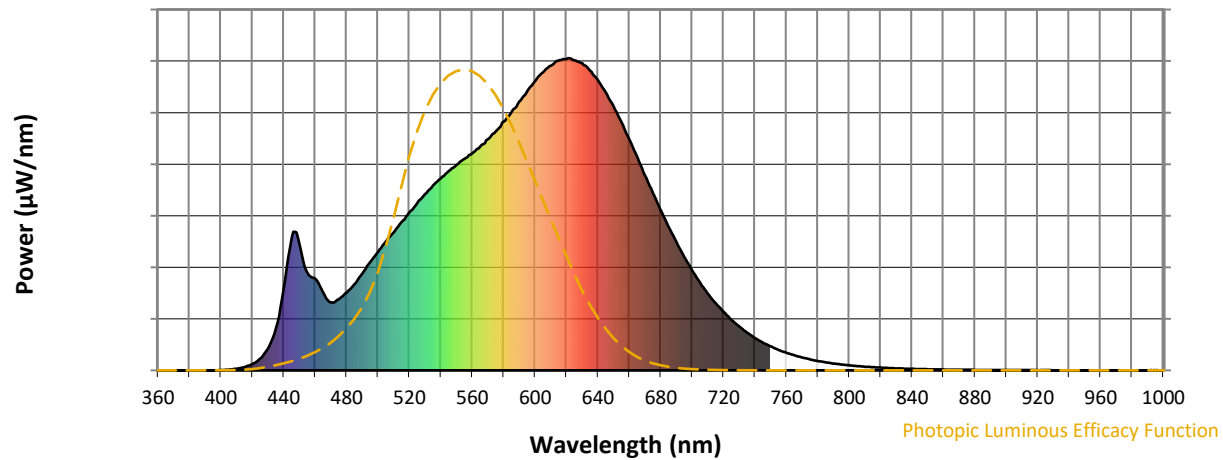
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-14

Photopic Flux vs. Wavelength

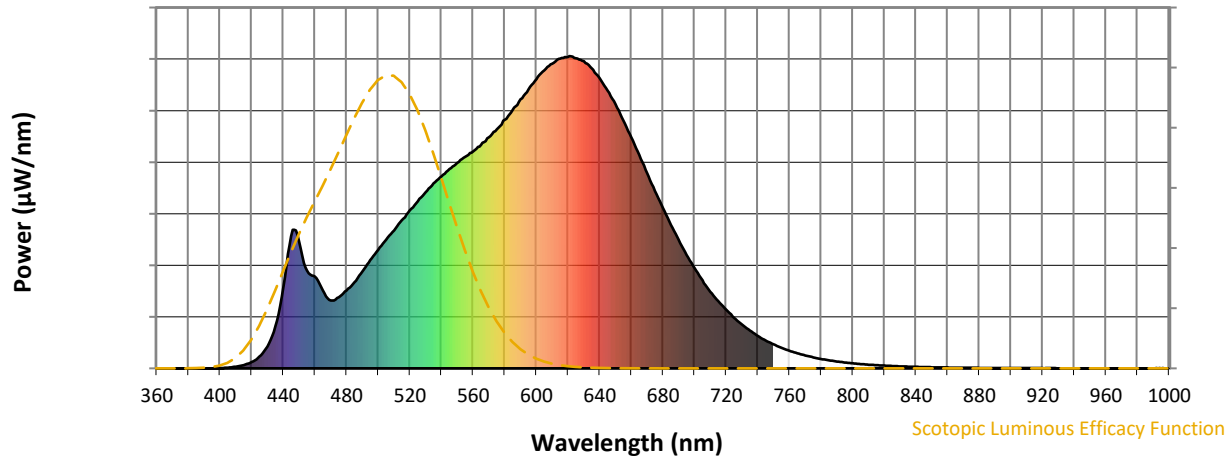


Photopic Lumens: NR

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	310	NR	620	998	NR	750	77	NR	880	2	NR
365	0	NR	495	347	NR	625	993	NR	755	66	NR	885	1	NR
370	0	NR	500	379	NR	630	983	NR	760	56	NR	890	1	NR
375	0	NR	505	412	NR	635	960	NR	765	48	NR	895	1	NR
380	0	NR	510	442	NR	640	930	NR	770	41	NR	900	1	NR
385	0	NR	515	475	NR	645	889	NR	775	35	NR	905	1	NR
390	0	NR	520	506	NR	650	846	NR	780	30	NR	910	1	NR
395	0	NR	525	535	NR	655	794	NR	785	26	NR	915	1	NR
400	1	NR	530	565	NR	660	740	NR	790	22	NR	920	1	NR
405	2	NR	535	592	NR	665	684	NR	795	19	NR	925	1	NR
410	6	NR	540	615	NR	670	624	NR	800	16	NR	930	0	NR
415	10	NR	545	638	NR	675	567	NR	805	14	NR	935	0	NR
420	20	NR	550	658	NR	680	513	NR	810	12	NR	940	0	NR
425	38	NR	555	678	NR	685	459	NR	815	10	NR	945	0	NR
430	70	NR	560	695	NR	690	412	NR	820	9	NR	950	0	NR
435	136	NR	565	716	NR	695	363	NR	825	8	NR	955	0	NR
440	262	NR	570	740	NR	700	320	NR	830	7	NR	960	0	NR
445	424	NR	575	765	NR	705	281	NR	835	6	NR	965	0	NR
450	406	NR	580	796	NR	710	245	NR	840	5	NR	970	0	NR
455	313	NR	585	827	NR	715	215	NR	845	4	NR	975	0	NR
460	294	NR	590	861	NR	720	188	NR	850	4	NR	980	0	NR
465	250	NR	595	894	NR	725	162	NR	855	3	NR	985	0	NR
470	217	NR	600	927	NR	730	140	NR	860	3	NR	990	0	NR
475	228	NR	605	954	NR	735	121	NR	865	2	NR	995	0	NR
480	249	NR	610	976	NR	740	104	NR	870	2	NR	1000	0	NR
485	276	NR	615	992	NR	745	89	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-14

Scotopic Flux vs. Wavelength



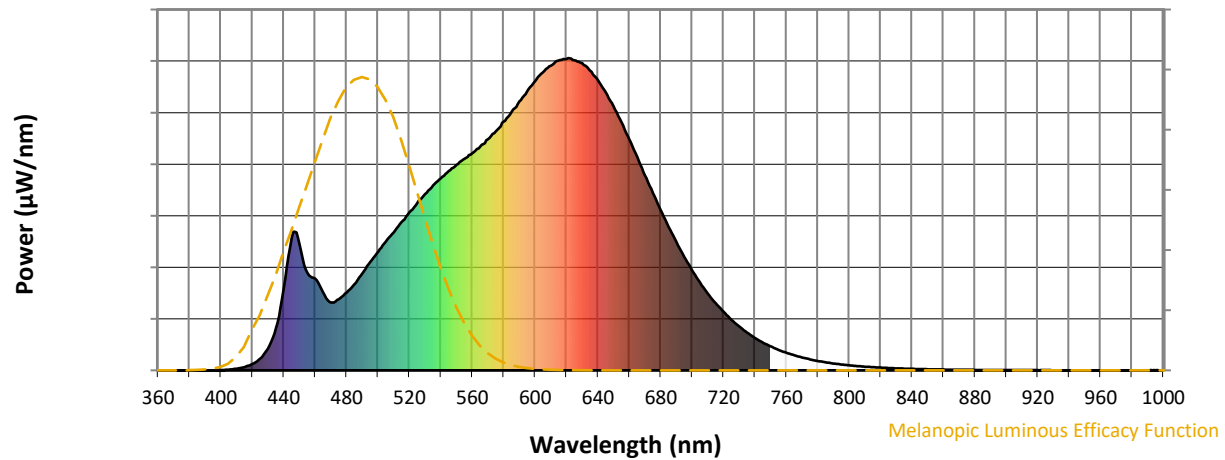
Scotopic Lumens: NR

S/P: 1.39

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	310	NR	620	998	NR	750	77	NR	880	2	NR
365	0	NR	495	347	NR	625	993	NR	755	66	NR	885	1	NR
370	0	NR	500	379	NR	630	983	NR	760	56	NR	890	1	NR
375	0	NR	505	412	NR	635	960	NR	765	48	NR	895	1	NR
380	0	NR	510	442	NR	640	930	NR	770	41	NR	900	1	NR
385	0	NR	515	475	NR	645	889	NR	775	35	NR	905	1	NR
390	0	NR	520	506	NR	650	846	NR	780	30	NR	910	1	NR
395	0	NR	525	535	NR	655	794	NR	785	26	NR	915	1	NR
400	1	NR	530	565	NR	660	740	NR	790	22	NR	920	1	NR
405	2	NR	535	592	NR	665	684	NR	795	19	NR	925	1	NR
410	6	NR	540	615	NR	670	624	NR	800	16	NR	930	0	NR
415	10	NR	545	638	NR	675	567	NR	805	14	NR	935	0	NR
420	20	NR	550	658	NR	680	513	NR	810	12	NR	940	0	NR
425	38	NR	555	678	NR	685	459	NR	815	10	NR	945	0	NR
430	70	NR	560	695	NR	690	412	NR	820	9	NR	950	0	NR
435	136	NR	565	716	NR	695	363	NR	825	8	NR	955	0	NR
440	262	NR	570	740	NR	700	320	NR	830	7	NR	960	0	NR
445	424	NR	575	765	NR	705	281	NR	835	6	NR	965	0	NR
450	406	NR	580	796	NR	710	245	NR	840	5	NR	970	0	NR
455	313	NR	585	827	NR	715	215	NR	845	4	NR	975	0	NR
460	294	NR	590	861	NR	720	188	NR	850	4	NR	980	0	NR
465	250	NR	595	894	NR	725	162	NR	855	3	NR	985	0	NR
470	217	NR	600	927	NR	730	140	NR	860	3	NR	990	0	NR
475	228	NR	605	954	NR	735	121	NR	865	2	NR	995	0	NR
480	249	NR	610	976	NR	740	104	NR	870	2	NR	1000	0	NR
485	276	NR	615	992	NR	745	89	NR	875	2	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.69

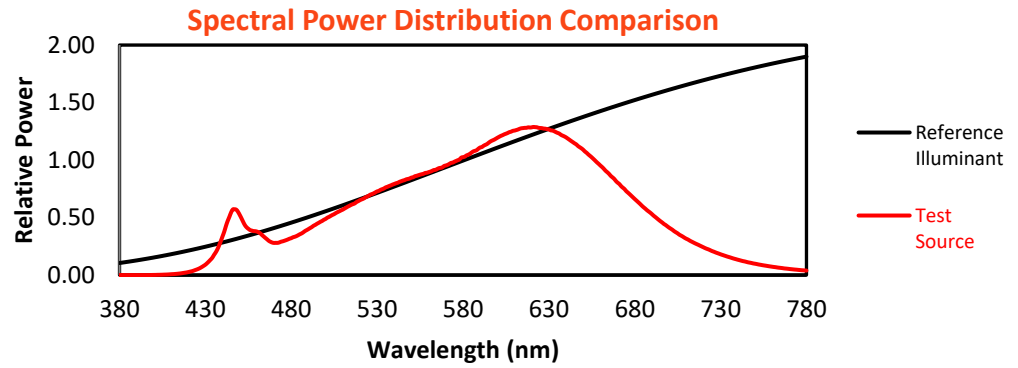
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	310	NR	620	998	NR	750	77	NR	880	2	NR
365	0	NR	495	347	NR	625	993	NR	755	66	NR	885	1	NR
370	0	NR	500	379	NR	630	983	NR	760	56	NR	890	1	NR
375	0	NR	505	412	NR	635	960	NR	765	48	NR	895	1	NR
380	0	NR	510	442	NR	640	930	NR	770	41	NR	900	1	NR
385	0	NR	515	475	NR	645	889	NR	775	35	NR	905	1	NR
390	0	NR	520	506	NR	650	846	NR	780	30	NR	910	1	NR
395	0	NR	525	535	NR	655	794	NR	785	26	NR	915	1	NR
400	1	NR	530	565	NR	660	740	NR	790	22	NR	920	1	NR
405	2	NR	535	592	NR	665	684	NR	795	19	NR	925	1	NR
410	6	NR	540	615	NR	670	624	NR	800	16	NR	930	0	NR
415	10	NR	545	638	NR	675	567	NR	805	14	NR	935	0	NR
420	20	NR	550	658	NR	680	513	NR	810	12	NR	940	0	NR
425	38	NR	555	678	NR	685	459	NR	815	10	NR	945	0	NR
430	70	NR	560	695	NR	690	412	NR	820	9	NR	950	0	NR
435	136	NR	565	716	NR	695	363	NR	825	8	NR	955	0	NR
440	262	NR	570	740	NR	700	320	NR	830	7	NR	960	0	NR
445	424	NR	575	765	NR	705	281	NR	835	6	NR	965	0	NR
450	406	NR	580	796	NR	710	245	NR	840	5	NR	970	0	NR
455	313	NR	585	827	NR	715	215	NR	845	4	NR	975	0	NR
460	294	NR	590	861	NR	720	188	NR	850	4	NR	980	0	NR
465	250	NR	595	894	NR	725	162	NR	855	3	NR	985	0	NR
470	217	NR	600	927	NR	730	140	NR	860	3	NR	990	0	NR
475	228	NR	605	954	NR	735	121	NR	865	2	NR	995	0	NR
480	249	NR	610	976	NR	740	104	NR	870	2	NR	1000	0	NR
485	276	NR	615	992	NR	745	89	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-14

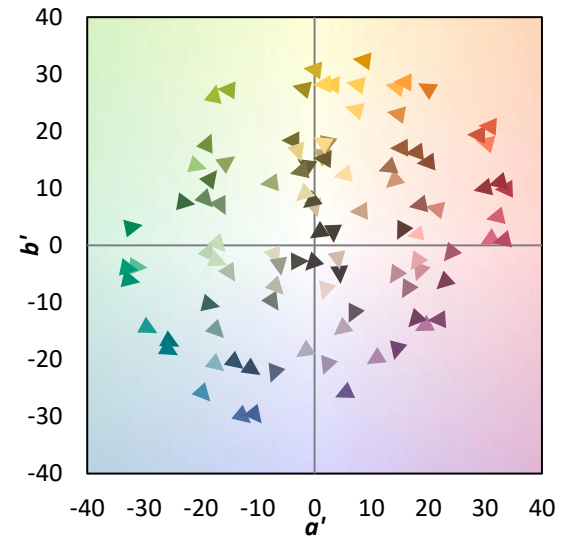
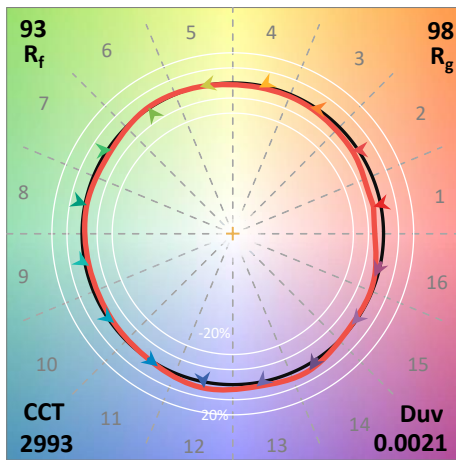
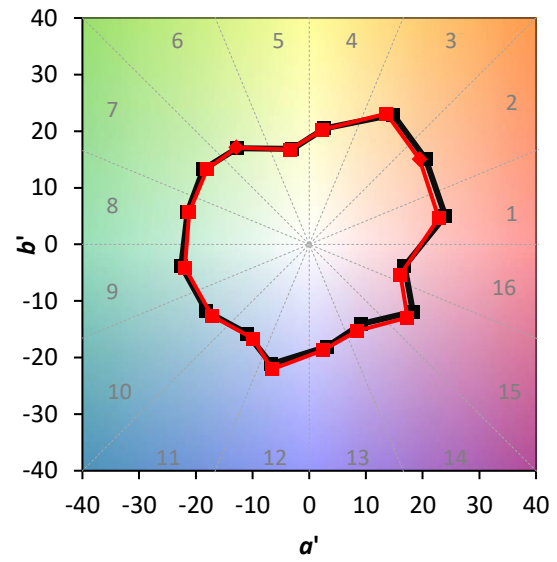
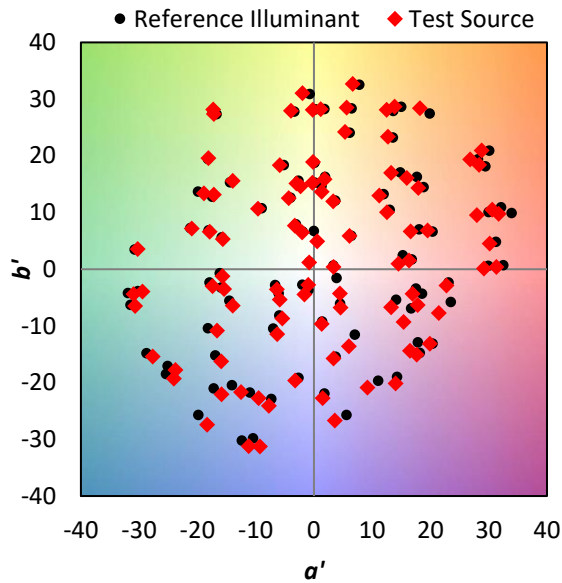
TM-30-18

Summary

$R_f = 92.6$
 $R_g = 98.5$
 $CIE R_a = 92.4$
 $R_9 = 58.2$

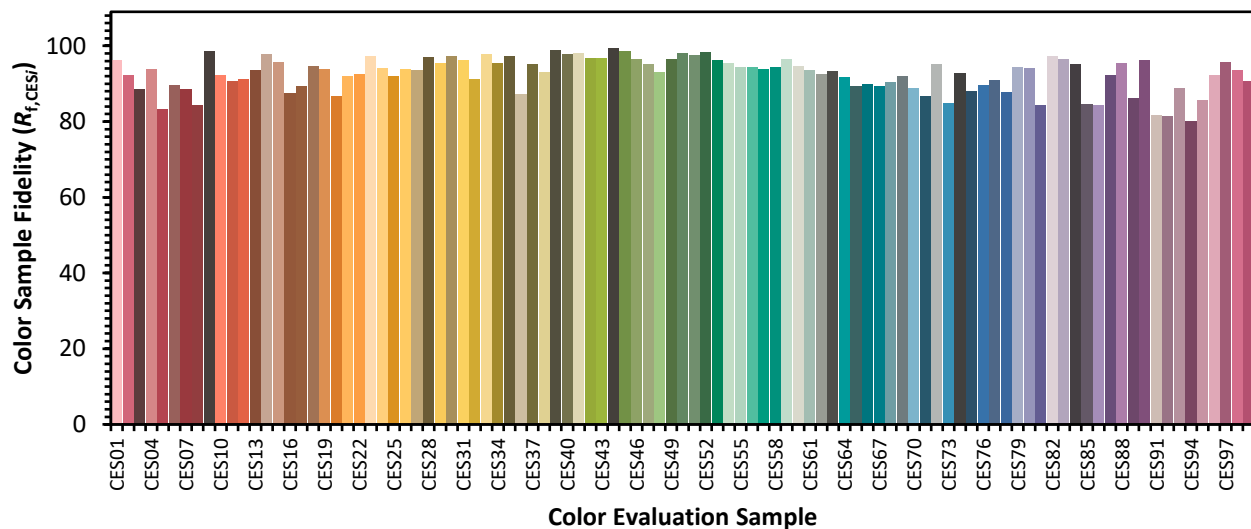


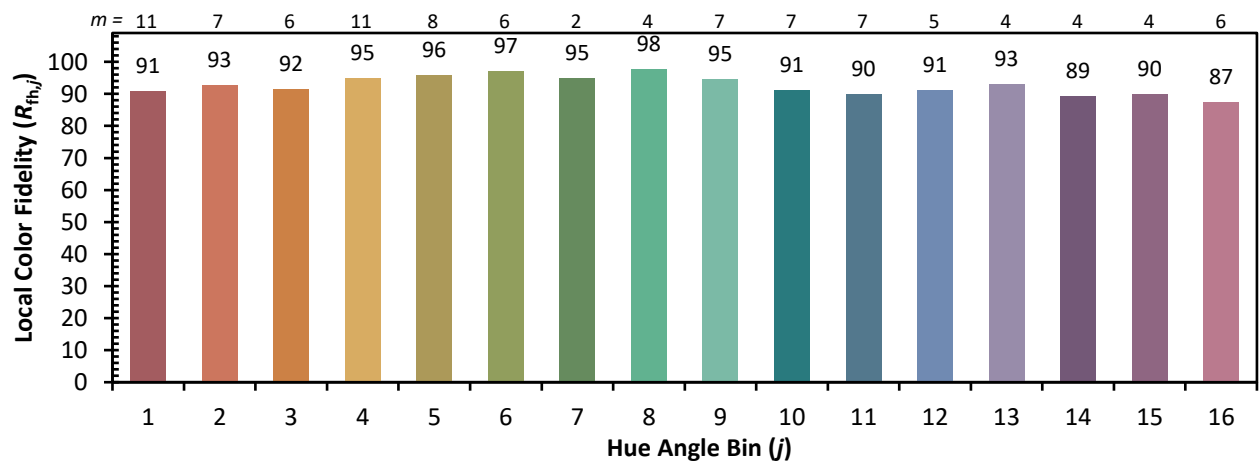
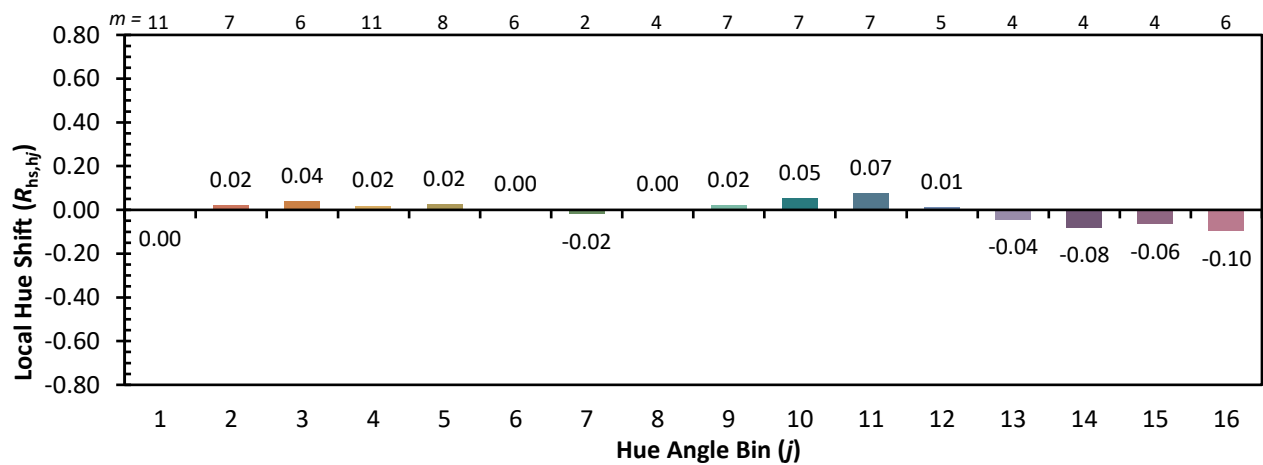
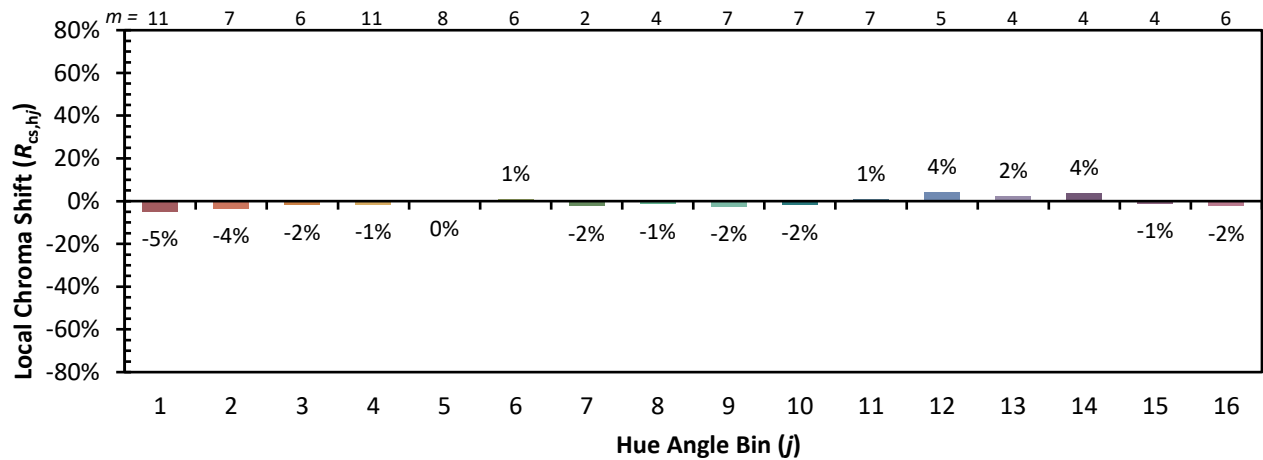
Color Vector Graphics



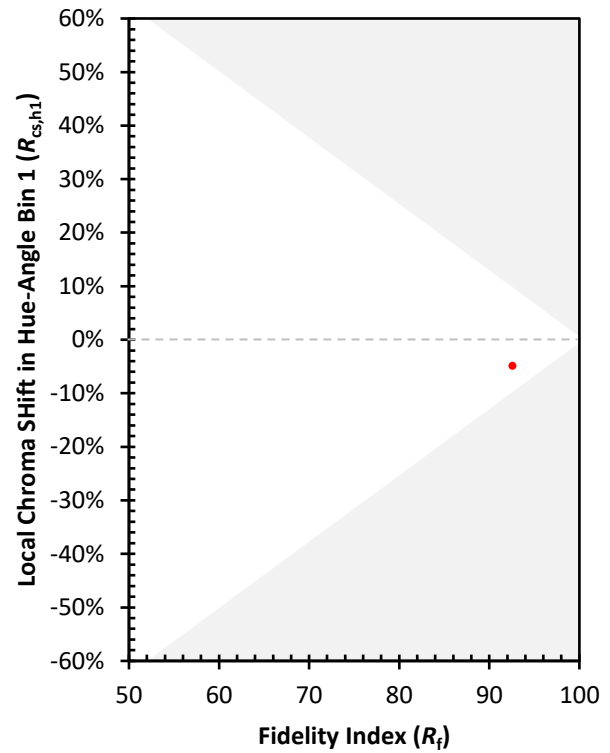
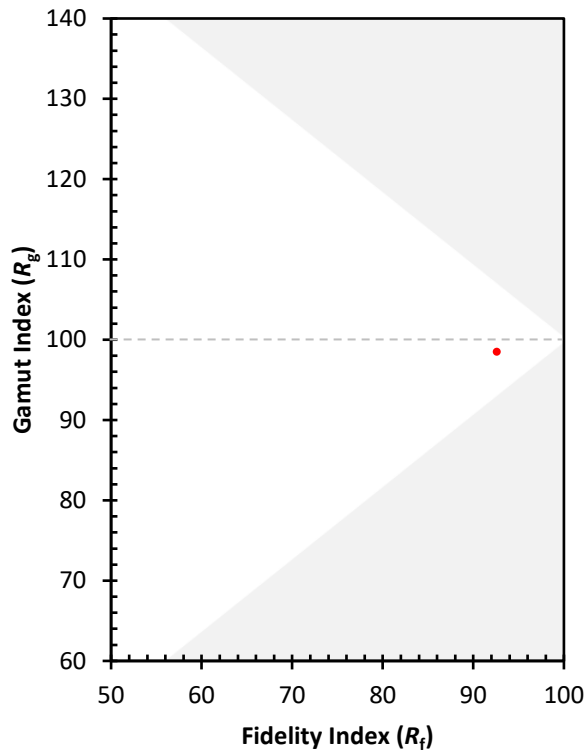
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 94	CES51 = 98	CES76 = 90
CES02 = 63	CES27 = 94	CES52 = 98	CES77 = 91
CES03 = 32	CES28 = 97	CES53 = 96	CES78 = 88
CES04 = 70	CES29 = 95	CES54 = 95	CES79 = 94
CES05 = 51	CES30 = 97	CES55 = 94	CES80 = 94
CES06 = 51	CES31 = 96	CES56 = 94	CES81 = 84
CES07 = 43	CES32 = 91	CES57 = 94	CES82 = 97
CES08 = 42	CES33 = 98	CES58 = 94	CES83 = 97
CES09 = 29	CES34 = 96	CES59 = 97	CES84 = 95
CES10 = 76	CES35 = 97	CES60 = 95	CES85 = 85
CES11 = 59	CES36 = 87	CES61 = 94	CES86 = 84
CES12 = 65	CES37 = 95	CES62 = 92	CES87 = 92
CES13 = 44	CES38 = 93	CES63 = 93	CES88 = 95
CES14 = 74	CES39 = 99	CES64 = 92	CES89 = 86
CES15 = 72	CES40 = 98	CES65 = 89	CES90 = 96
CES16 = 48	CES41 = 98	CES66 = 90	CES91 = 82
CES17 = 50	CES42 = 97	CES67 = 89	CES92 = 81
CES18 = 57	CES43 = 97	CES68 = 90	CES93 = 89
CES19 = 72	CES44 = 99	CES69 = 92	CES94 = 80
CES20 = 67	CES45 = 99	CES70 = 89	CES95 = 86
CES21 = 86	CES46 = 96	CES71 = 87	CES96 = 92
CES22 = 79	CES47 = 95	CES72 = 95	CES97 = 96
CES23 = 92	CES48 = 93	CES73 = 85	CES98 = 94
CES24 = 91	CES49 = 97	CES74 = 93	CES99 = 91
CES25 = 72	CES50 = 98	CES75 = 88	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)