

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: P1050033

Luminaire Tested: **GALN-SA9A-940-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1050033
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-940-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 9xLight Square PACKAGE
90CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (126) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21471.3 lumens
Efficiency: N/A
Efficacy: 87.8 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 (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

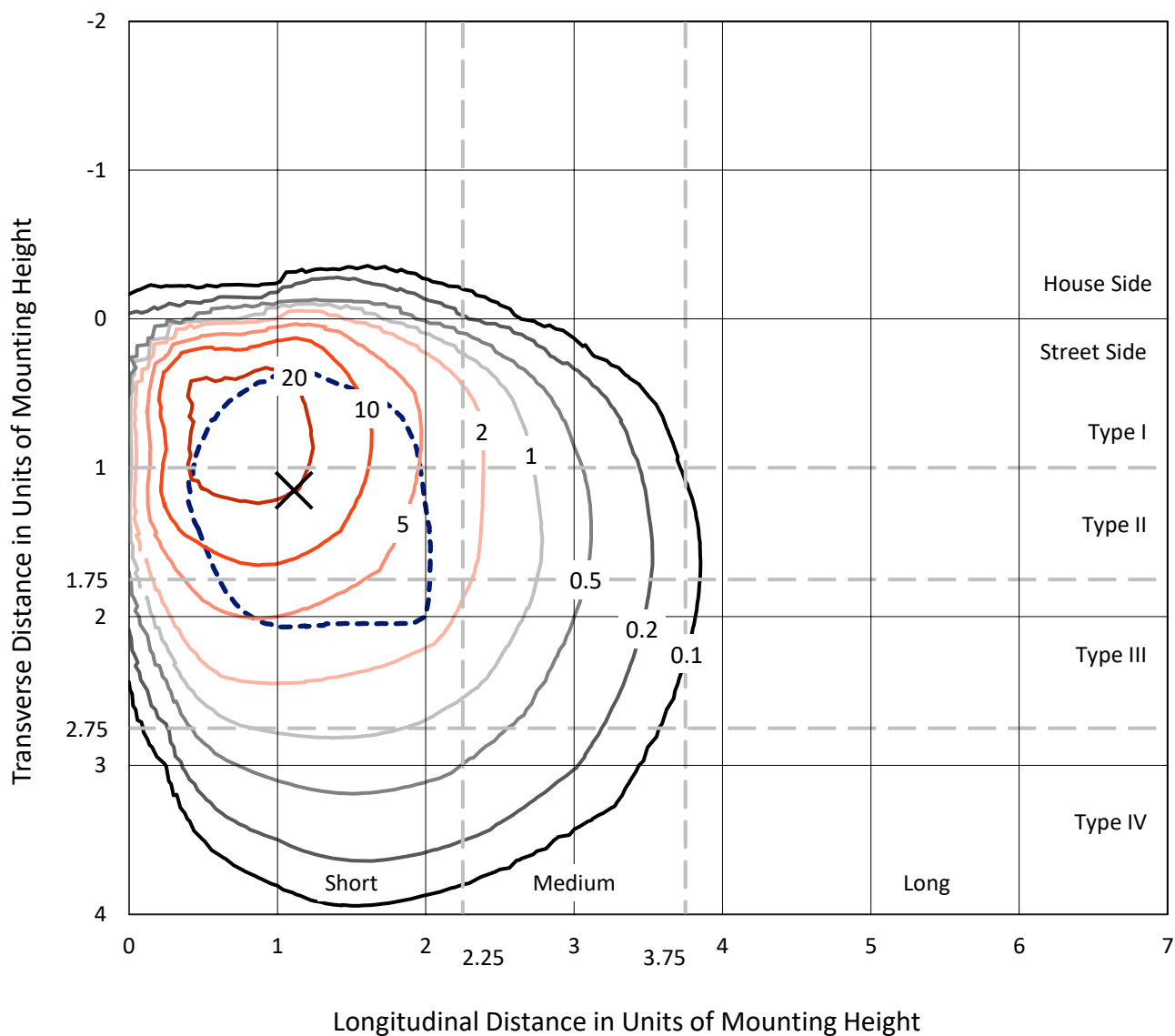
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

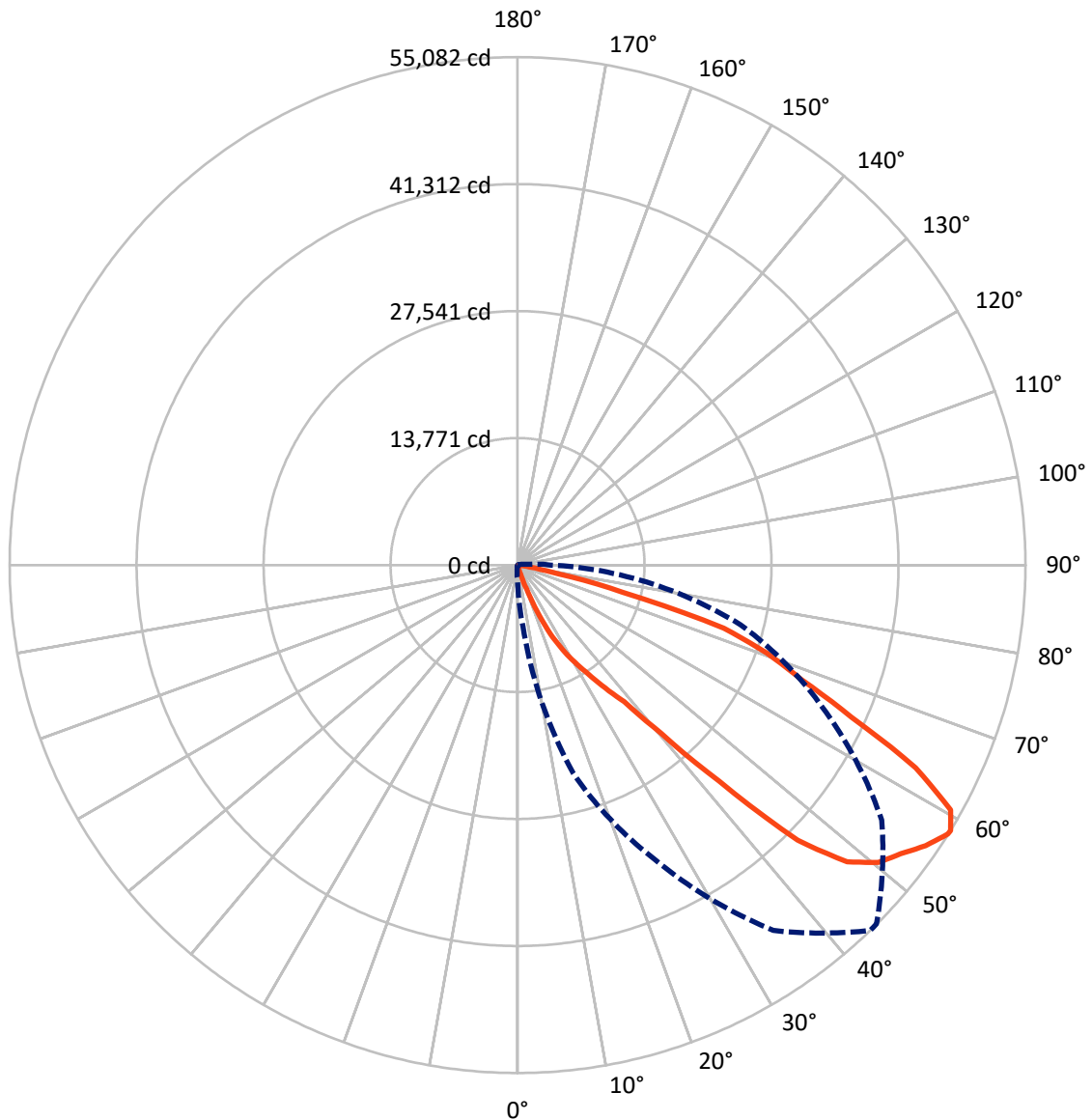


Based on 20 foot mounting height. Maximum calculated value = 37.4 fc

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	146.6	0.0	146.6
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	21324.7	0.0	21324.7
	% Fixture	99.3	0.0	99.3
Total	Lumens	21471.3	0.0	21471.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.4	0.0
10°-20°	47.1	0.2
20°-30°	508.7	2.4
30°-40°	1504.3	7.0
40°-50°	4483.5	20.9
50°-60°	7114.3	33.1
60°-70°	5934.2	27.6
70°-80°	1830.2	8.5
80°-90°	40.7	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	21471.3	100.0
0°-180°	21471.3	100.0



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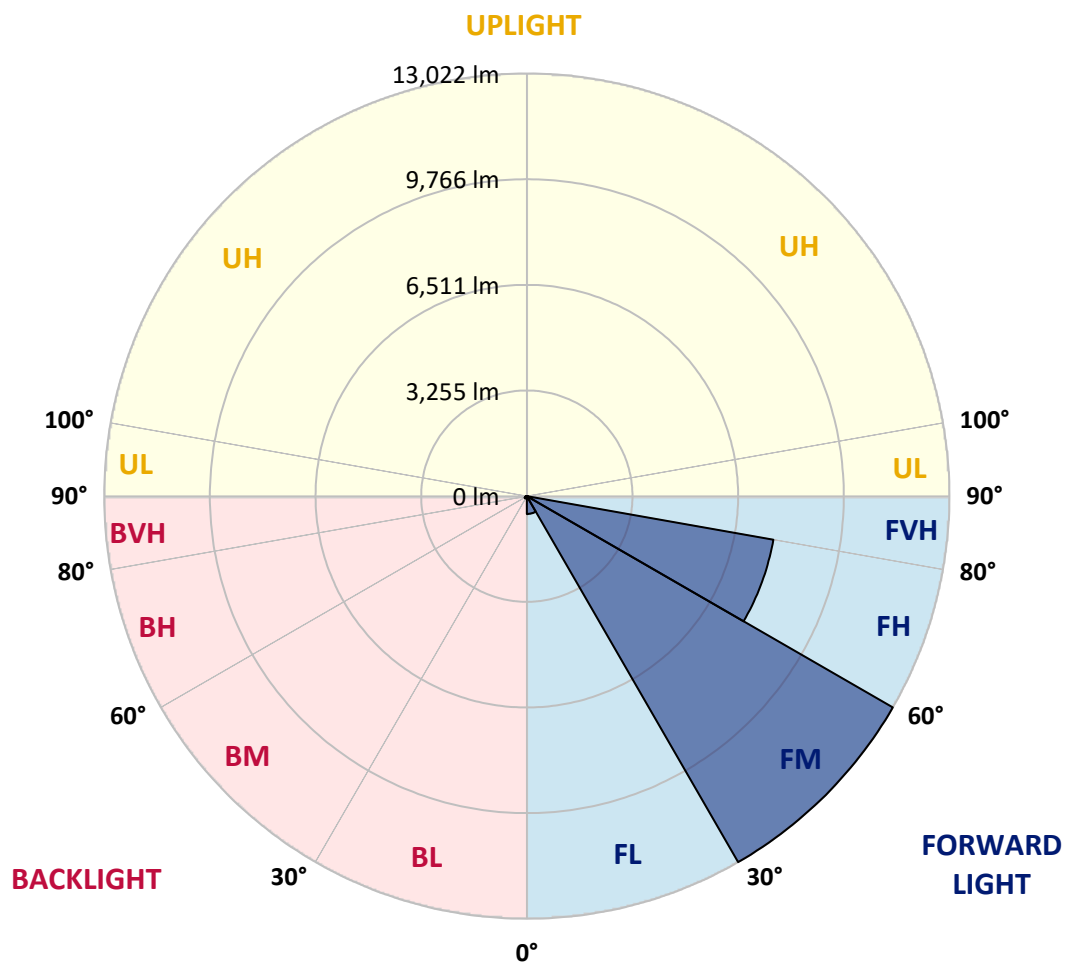
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	549.8	2.6			
FM	(30°-60°)	13021.9	60.6			
FH	(60°-80°)	7714.3	35.9			G4/12000
FVH	(80°-90°)	38.7	0.2			G1/100
BL	(0°-30°)	14.3	0.1	B0/110		
BM	(30°-60°)	80.2	0.4	B0/220		
BH	(60°-80°)	50.1	0.2	B0/110		G0/110
BVH	(80°-90°)	2.0	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°	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
2.5°	121.6	121.6	116.8	110.3	103.8	97.3	95.7	92.5	90.8	89.2
5°	126.5	126.5	124.9	120.0	113.5	108.7	108.7	103.8	100.6	97.3
7.5°	129.8	131.4	134.6	133.0	129.8	124.9	124.9	121.6	116.8	108.7
10°	134.6	139.5	146.0	149.2	150.8	150.8	149.2	147.6	139.5	128.1
12.5°	139.5	149.2	165.4	181.7	191.4	204.4	202.7	199.5	178.4	154.1
15°	149.2	163.8	197.9	244.9	317.9	363.3	381.2	364.9	295.2	207.6
17.5°	160.6	184.9	287.1	512.5	840.2	995.9	1090.0	1013.7	671.5	394.1
20°	171.9	225.5	533.6	1328.4	2179.9	2689.2	2830.3	2609.8	1675.5	751.0
22.5°	191.4	316.3	1081.9	2746.0	4697.2	5461.2	5605.5	4900.0	3164.5	1482.5
25°	231.9	459.0	1865.3	4475.0	7010.2	8299.6	8239.6	7315.1	5133.5	2368.1
27.5°	290.3	668.3	2820.6	6358.1	9225.8	10362.8	10499.0	9355.5	6843.1	3482.4
30°	374.7	926.1	3845.7	7866.6	11001.8	12231.3	12254.0	11071.6	8372.6	4460.4
32.5°	455.8	1169.4	4742.6	9324.7	12751.9	14099.8	14200.4	12745.5	9514.5	5479.0
35°	517.4	1328.4	5651.0	10606.1	14516.7	16373.8	16367.3	14639.9	10867.2	6388.9
37.5°	522.3	1487.3	6473.3	11916.6	16751.7	18831.1	19037.1	17132.9	12502.2	7514.6
40°	510.9	1665.8	7514.6	13960.3	20779.1	23969.5	24151.2	21750.6	15781.8	9441.5
42.5°	523.9	1975.6	9204.7	17734.6	27466.5	32048.5	32398.9	29875.1	21810.7	13373.2
45°	592.0	2557.9	12745.5	24049.0	36998.8	42584.9	42468.1	38833.3	28825.7	19358.2
47.5°	817.5	3983.6	17994.2	30194.6	43090.9	48065.5	48166.1	43723.5	32919.5	23959.8
50°	1257.0	6095.4	22404.3	33443.4	45710.4	50701.2	50607.2	45473.6	34475.0	26225.7
52.5°	1634.9	7623.3	24616.7	34583.7	46046.2	52003.7	51997.2	45934.3	34716.7	26420.3
55°	1729.0	7738.4	24634.5	34645.3	46798.8	53708.4	53922.5	47068.0	35029.7	25570.4
57.5°	1691.7	6851.2	23606.2	35002.2	48138.5	55027.0	55038.4	48166.1	35824.5	25049.7
58°	1659.3	6711.7	23398.6	35204.9	48368.8	55082.2	55054.6	48216.4	36471.7	25030.3
60°	1477.6	5827.7	22589.2	35722.3	48026.6	53950.0	53692.1	47118.3	36376.0	24830.8
62.5°	1161.3	4546.4	21792.8	35123.8	44357.7	48469.4	48576.4	41715.5	33161.2	23667.8
65°	924.5	3388.3	20131.9	30809.4	36526.8	39803.2	40202.2	33921.9	27679.0	20041.1
67.5°	736.4	2449.2	16888.0	24529.1	28903.5	33219.6	33509.9	28480.2	21444.1	15355.2
70°	598.5	1656.0	11657.1	17939.0	23839.7	28692.7	28710.5	23659.7	16005.6	10061.1
72.5°	530.4	1146.7	6766.9	13082.8	19330.7	23380.7	22908.7	19199.3	12301.0	5959.1
75°	459.0	760.7	3318.6	7997.9	11720.4	11799.8	11979.9	8906.2	6148.9	2833.6
77.5°	377.9	540.1	1307.3	2184.8	3514.8	4499.4	4666.4	3535.9	2045.3	697.4
80°	259.5	256.3	352.0	669.9	1005.6	1260.3	1175.9	909.9	535.3	267.6
82.5°	111.9	121.6	159.0	191.4	155.7	150.8	144.4	92.5	71.4	55.1
85°	35.7	32.4	34.1	34.1	27.6	21.1	21.1	9.7	0.0	0.0
87.5°	17.8	14.6	14.6	13.0	8.1	3.2	1.6	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°
94.1	0°	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
87.6	2.5°	86.0	86.0	82.7	79.5	77.9	74.6	73.0	71.4	69.7	68.1
94.1	5°	90.8	89.2	84.3	79.5	74.6	69.7	66.5	63.3	60.0	58.4
103.8	7.5°	98.9	95.7	86.0	77.9	71.4	64.9	61.6	56.8	53.5	48.7
115.2	10°	108.7	102.2	89.2	79.5	69.7	61.6	56.8	51.9	47.0	40.5
131.4	12.5°	121.6	110.3	94.1	77.9	66.5	56.8	51.9	45.4	40.5	35.7
152.5	15°	133.0	118.4	95.7	77.9	63.3	51.9	45.4	38.9	34.1	27.6
191.4	17.5°	149.2	124.9	94.1	73.0	58.4	45.4	38.9	34.1	26.0	16.2
283.8	20°	176.8	129.8	90.8	68.1	50.3	37.3	29.2	22.7	11.4	3.2
426.6	22.5°	220.6	142.7	87.6	61.6	43.8	29.2	19.5	8.1	0.0	0.0
648.8	25°	304.9	165.4	87.6	58.4	38.9	21.1	6.5	0.0	0.0	0.0
921.3	27.5°	405.5	196.3	87.6	50.3	30.8	11.4	0.0	0.0	0.0	0.0
1255.4	30°	507.7	230.3	87.6	43.8	24.3	1.6	0.0	0.0	0.0	0.0
1545.7	32.5°	605.0	259.5	89.2	37.3	16.2	0.0	0.0	0.0	0.0	0.0
1948.0	35°	703.9	264.4	87.6	32.4	9.7	0.0	0.0	0.0	0.0	0.0
2441.1	37.5°	830.4	254.6	82.7	29.2	4.9	0.0	0.0	0.0	0.0	0.0
3211.5	40°	1021.8	259.5	77.9	27.6	1.6	0.0	0.0	0.0	0.0	0.0
4585.3	42.5°	1375.4	280.6	71.4	27.6	0.0	0.0	0.0	0.0	0.0	0.0
7303.7	45°	2377.8	376.3	64.9	29.2	0.0	0.0	0.0	0.0	0.0	0.0
10964.5	47.5°	3933.3	676.4	63.3	29.2	0.0	0.0	0.0	0.0	0.0	0.0
13207.7	50°	5020.0	851.5	66.5	30.8	0.0	0.0	0.0	0.0	0.0	0.0
13488.3	52.5°	5011.9	948.9	69.7	32.4	6.5	0.0	0.0	0.0	0.0	0.0
12432.4	55°	4455.6	966.7	74.6	35.7	21.1	0.0	0.0	0.0	0.0	0.0
10683.9	57.5°	3724.0	882.4	86.0	43.8	38.9	0.0	0.0	0.0	0.0	0.0
10409.8	58°	3594.3	843.4	89.2	45.4	42.2	0.0	0.0	0.0	0.0	0.0
9029.5	60°	2945.5	687.7	113.5	56.8	56.8	0.0	0.0	0.0	0.0	0.0
7402.7	62.5°	2034.0	600.1	129.8	73.0	58.4	0.0	0.0	0.0	0.0	0.0
5457.9	65°	1438.7	541.7	141.1	77.9	47.0	0.0	0.0	0.0	0.0	0.0
3878.1	67.5°	1075.4	499.6	155.7	79.5	24.3	0.0	0.0	0.0	0.0	0.0
2433.0	70°	824.0	468.7	191.4	84.3	6.5	0.0	0.0	0.0	0.0	0.0
1450.0	72.5°	671.5	433.1	231.9	87.6	0.0	0.0	0.0	0.0	0.0	0.0
869.4	75°	556.3	390.9	223.8	95.7	0.0	0.0	0.0	0.0	0.0	0.0
463.9	77.5°	369.8	303.3	204.4	95.7	0.0	0.0	0.0	0.0	0.0	0.0
165.4	80°	129.8	120.0	159.0	84.3	0.0	0.0	0.0	0.0	0.0	0.0
34.1	82.5°	19.5	16.2	22.7	29.2	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

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CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
94.1	0°	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
66.5	2.5°	66.5	66.5	64.9	66.5	66.5	69.7	77.9	89.2	102.2	107.1
56.8	5°	55.1	53.5	51.9	51.9	51.9	56.8	63.3	76.2	90.8	97.3
47.0	7.5°	45.4	43.8	42.2	40.5	40.5	43.8	51.9	66.5	81.1	87.6
38.9	10°	37.3	34.1	32.4	30.8	30.8	34.1	42.2	56.8	73.0	79.5
32.4	12.5°	30.8	26.0	22.7	21.1	19.5	24.3	32.4	45.4	63.3	71.4
24.3	15°	21.1	16.2	11.4	9.7	8.1	13.0	21.1	35.7	53.5	63.3
13.0	17.5°	11.4	4.9	1.6	0.0	0.0	3.2	9.7	26.0	43.8	51.9
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.0	32.4	40.5
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	19.5	27.6
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	14.6
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2
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	4.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	13.0
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°
94.1	0°	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
111.9	2.5°	115.2	113.5	110.3	107.1	107.1	107.1	111.9	116.8	121.6	121.6
100.6	5°	107.1	107.1	105.4	102.2	102.2	103.8	110.3	118.4	124.9	126.5
92.5	7.5°	98.9	102.2	98.9	97.3	98.9	100.6	107.1	116.8	126.5	129.8
86.0	10°	94.1	95.7	95.7	94.1	94.1	97.3	103.8	116.8	129.8	134.6
77.9	12.5°	87.6	90.8	89.2	89.2	89.2	92.5	100.6	115.2	133.0	139.5
69.7	15°	81.1	86.0	86.0	84.3	84.3	86.0	97.3	113.5	137.9	149.2
60.0	17.5°	74.6	79.5	81.1	77.9	77.9	81.1	92.5	113.5	141.1	160.6
48.7	20°	61.6	69.7	74.6	69.7	69.7	73.0	84.3	107.1	142.7	171.9
35.7	22.5°	48.7	56.8	63.3	61.6	61.6	63.3	77.9	102.2	144.4	191.4
21.1	25°	35.7	43.8	48.7	51.9	51.9	56.8	71.4	98.9	150.8	231.9
9.7	27.5°	21.1	30.8	37.3	40.5	42.2	48.7	66.5	95.7	162.2	290.3
0.0	30°	9.7	17.8	26.0	32.4	32.4	43.8	61.6	92.5	176.8	374.7
0.0	32.5°	0.0	8.1	13.0	22.7	24.3	35.7	56.8	89.2	197.9	455.8
0.0	35°	0.0	0.0	6.5	17.8	17.8	29.2	51.9	86.0	230.3	517.4
0.0	37.5°	0.0	0.0	0.0	13.0	14.6	26.0	50.3	84.3	236.8	522.3
0.0	40°	0.0	0.0	0.0	9.7	11.4	24.3	50.3	86.0	214.1	510.9
0.0	42.5°	0.0	0.0	0.0	6.5	8.1	24.3	50.3	89.2	193.0	523.9
0.0	45°	0.0	0.0	0.0	4.9	6.5	26.0	48.7	87.6	181.7	592.0
0.0	47.5°	0.0	0.0	0.0	6.5	9.7	26.0	47.0	86.0	183.3	817.5
0.0	50°	0.0	0.0	0.0	8.1	11.4	26.0	48.7	82.7	201.1	1257.0
0.0	52.5°	0.0	0.0	0.0	6.5	9.7	29.2	53.5	81.1	219.0	1634.9
0.0	55°	0.0	0.0	0.0	1.6	4.9	37.3	58.4	81.1	246.5	1729.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	42.2	66.5	86.0	292.0	1691.7
0.0	58°	0.0	0.0	0.0	0.0	0.0	42.2	68.1	86.0	295.2	1659.3
0.0	60°	0.0	0.0	0.0	0.0	0.0	42.2	74.6	95.7	317.9	1477.6
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	35.7	89.2	120.0	330.9	1161.3
0.0	65°	0.0	0.0	0.0	0.0	0.0	29.2	105.4	131.4	340.6	924.5
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	27.6	108.7	133.0	345.5	736.4
0.0	70°	0.0	0.0	0.0	0.0	0.0	29.2	107.1	142.7	361.7	598.5
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	32.4	97.3	157.3	361.7	530.4
0.0	75°	0.0	0.0	0.0	0.0	0.0	34.1	90.8	176.8	329.3	459.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	32.4	89.2	206.0	293.6	377.9
0.0	80°	3.2	4.9	4.9	3.2	3.2	27.6	87.6	209.2	249.8	259.5
1.6	82.5°	9.7	13.0	11.4	8.1	8.1	24.3	77.9	175.2	129.8	111.9
9.7	85°	17.8	21.1	21.1	17.8	17.8	22.7	48.7	63.3	43.8	35.7
17.8	87.5°	24.3	27.6	27.6	24.3	24.3	22.7	21.1	19.5	17.8	17.8
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



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-16

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-940-U-5WQ

Data in this report applies to families of products including GSS-SB1A-940-U-5WQ

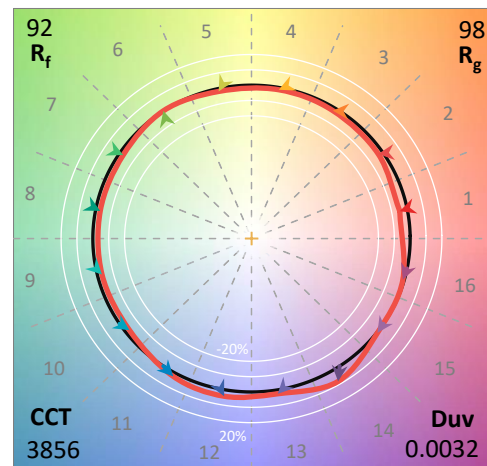
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-16
 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-940-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI 4000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3856
 CIE u' : 0.2261
 CIE v' : 0.5084
 Duv: 0.0032
 CIE x: 0.3896
 CIE y: 0.3894
 CIE z: 0.2211
 Peak Wavelength (nm): 614
 Dominant Wavelength (nm): 578
 Purity: 33.77304
 R_f: 91.8
 R_g: 98.4

CRI (Ra): 92.1
 R1: 91.8
 R2: 94.1
 R3: 95.3
 R4: 92.8
 R5: 91.0
 R6: 91.6
 R7: 95.0
 R8: 85.2
 R9: 60.7
 R10: 85.2
 R11: 92.4
 R12: 74.5
 R13: 92.3
 R14: 97.0
 R15: 88.5



Test Conditions

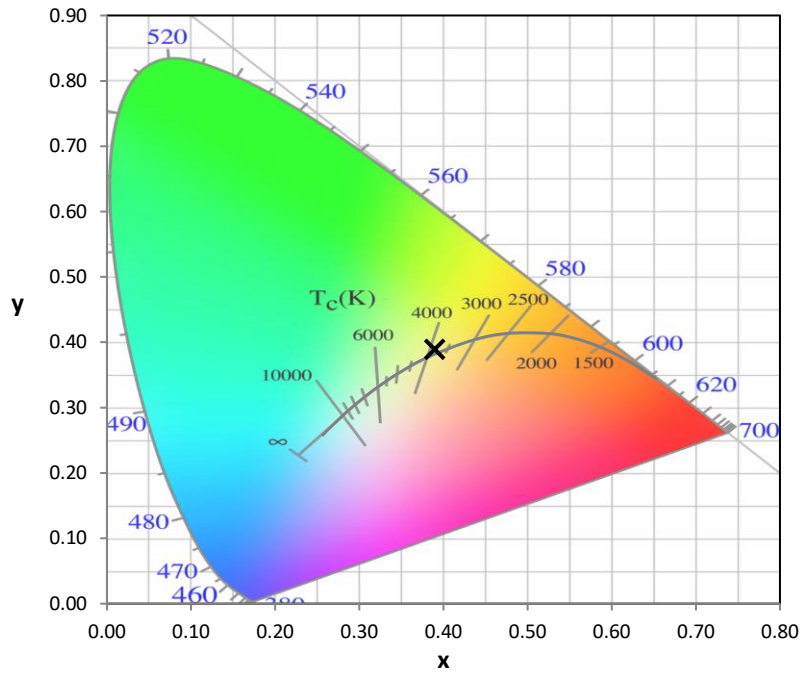
Stabilization Time: 23M
 Operation Time: 1H 23M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-16

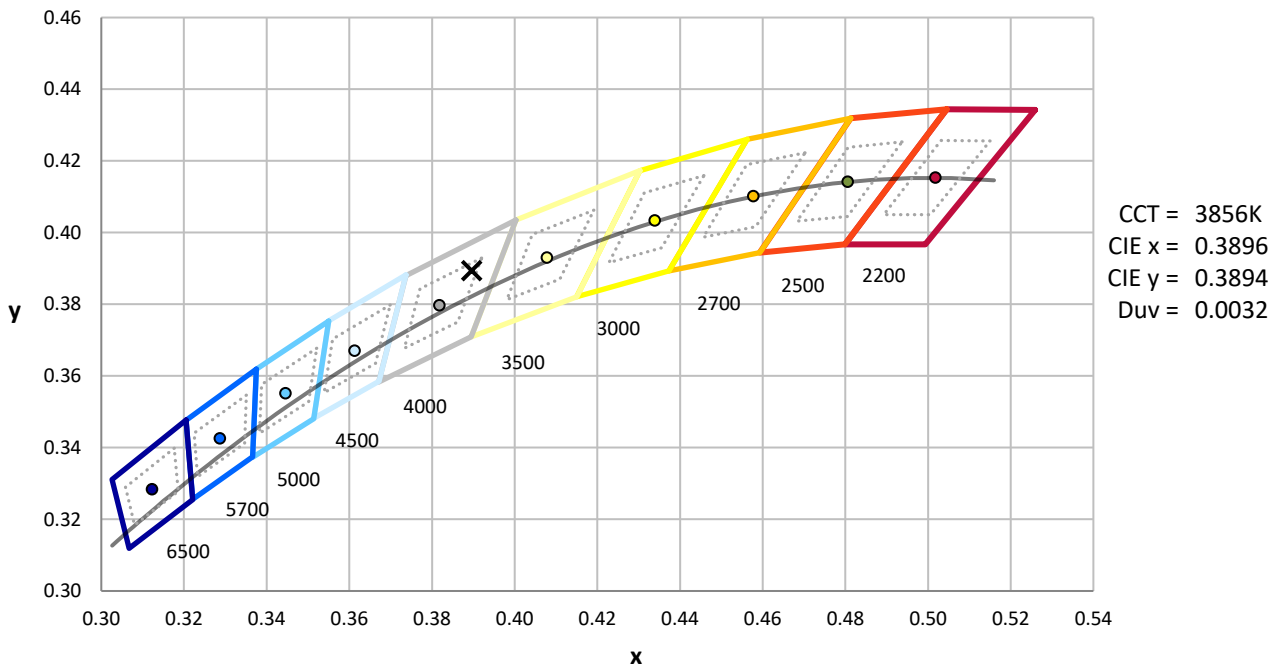
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-16

CIE 1931 Chromaticity Diagram



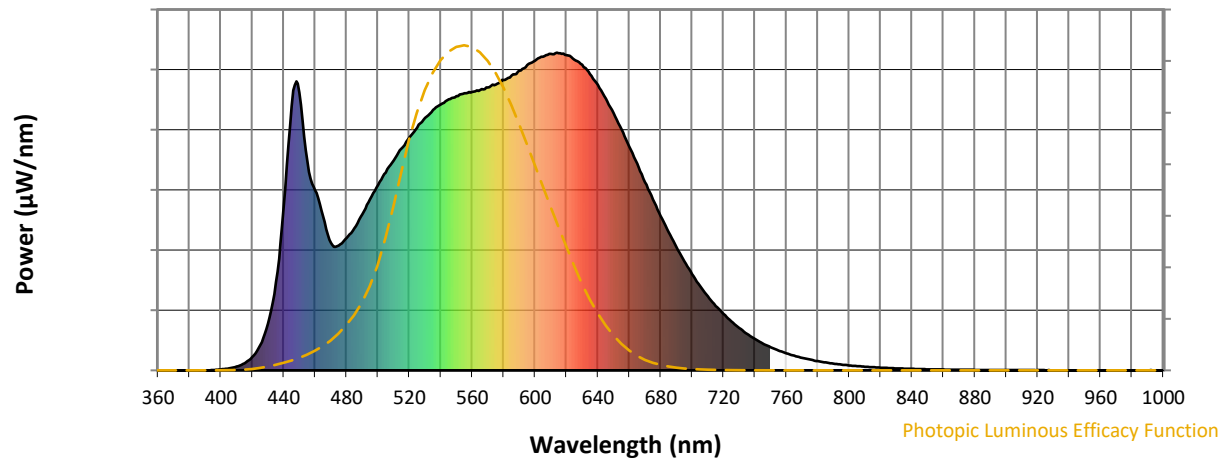
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-16

Photopic Flux vs. Wavelength

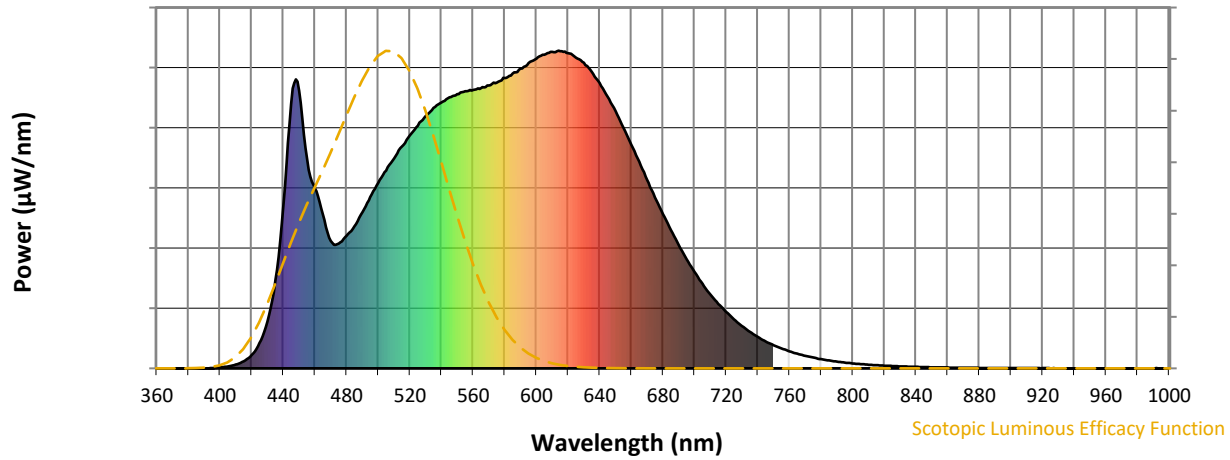


Photopic Lumens: NR

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	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-16

Scotopic Flux vs. Wavelength



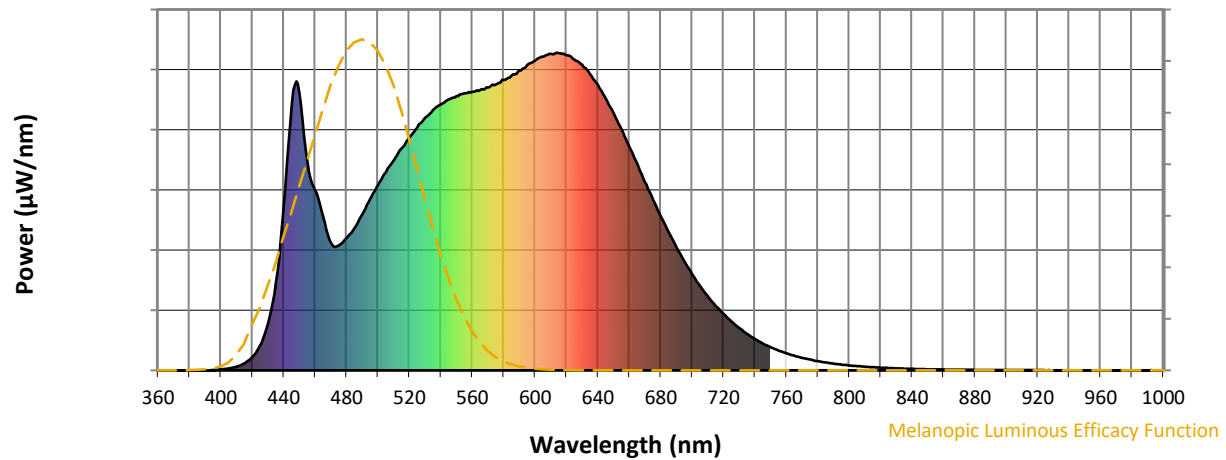
Scotopic Lumens: NR

S/P: 1.72

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	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 3.52

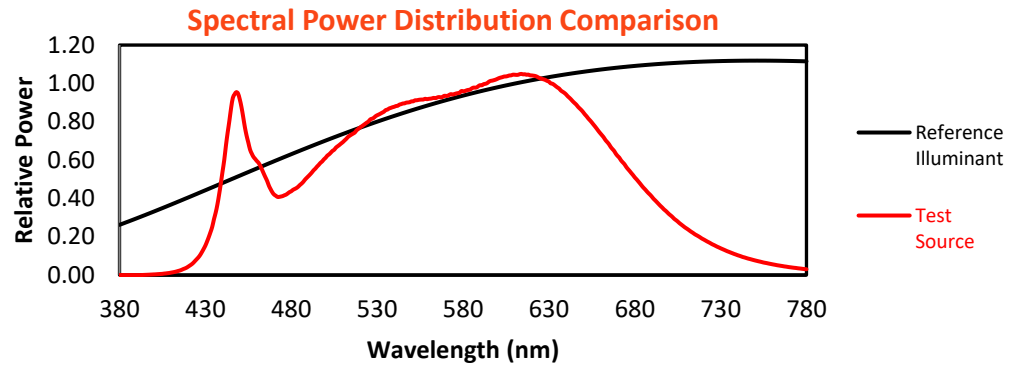
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-16

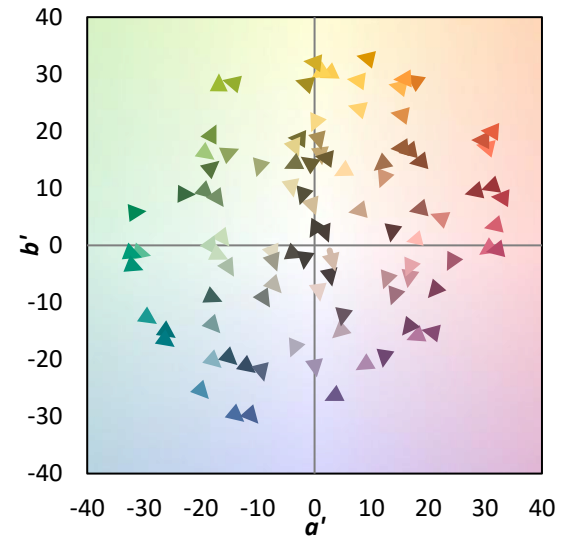
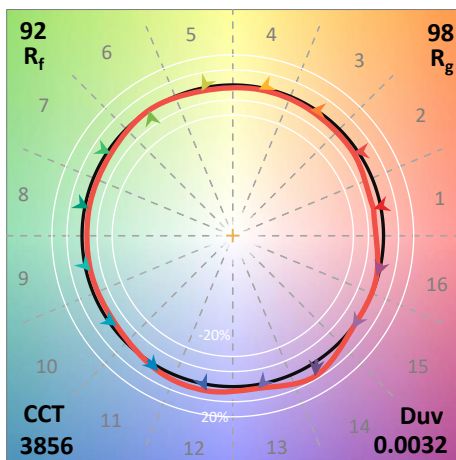
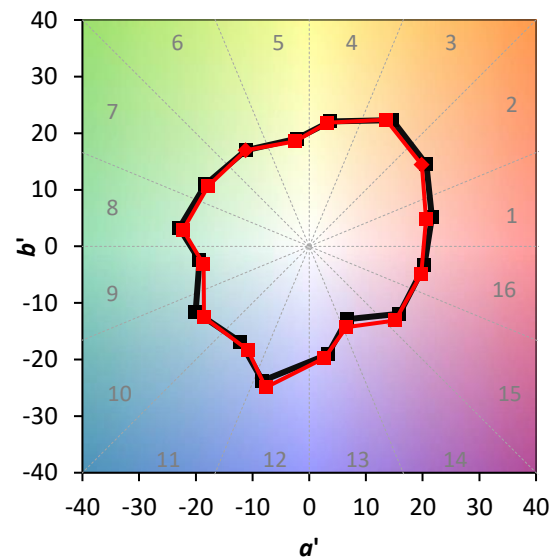
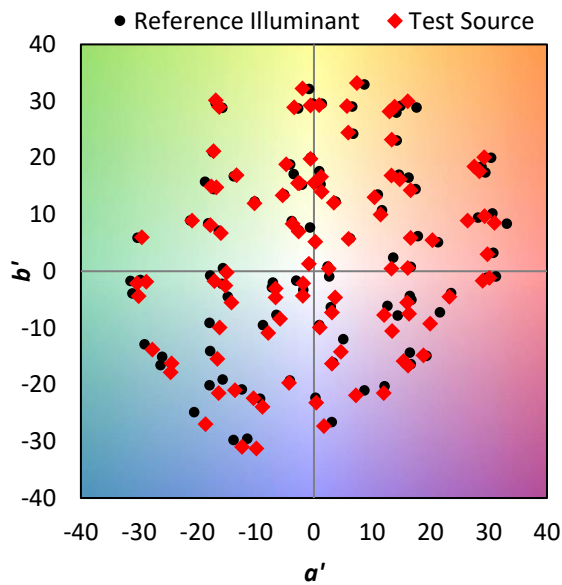
TM-30-18

Summary

$R_f = 91.8$
 $R_g = 98.4$
 $CIE R_a = 92.1$
 $R_9 = 60.7$

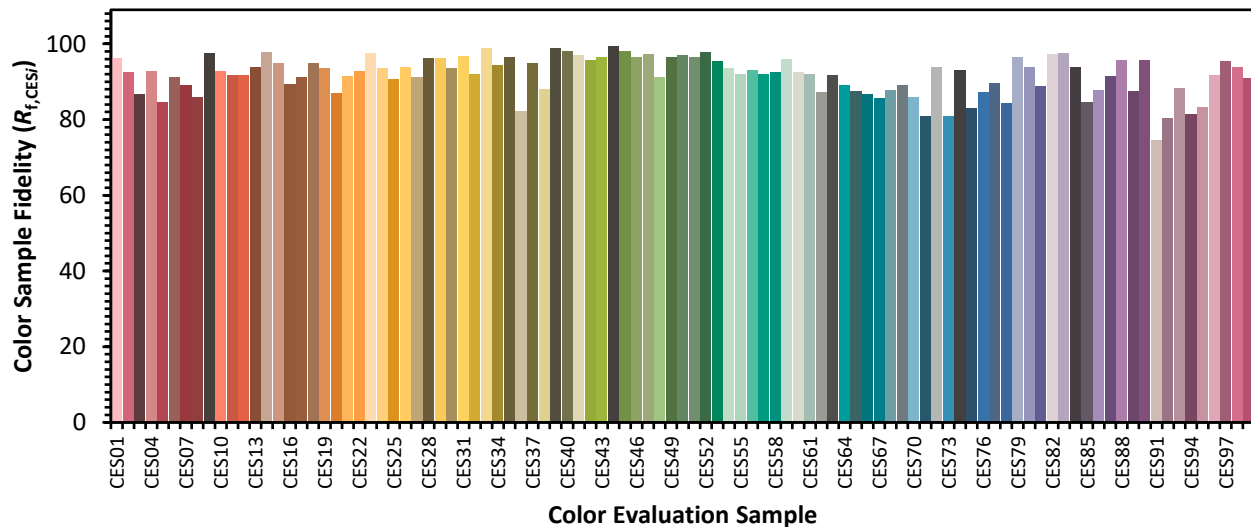


Color Vector Graphics

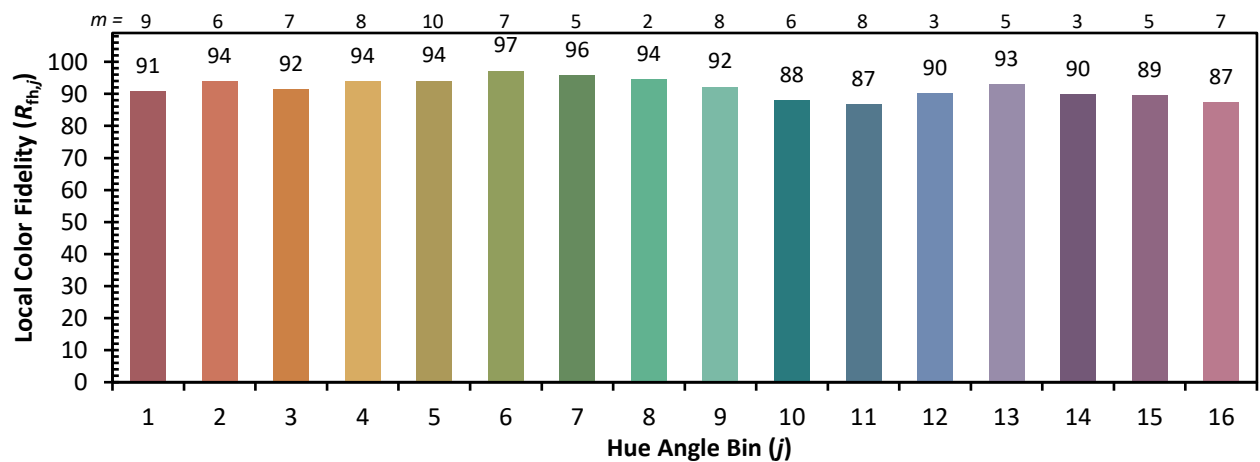
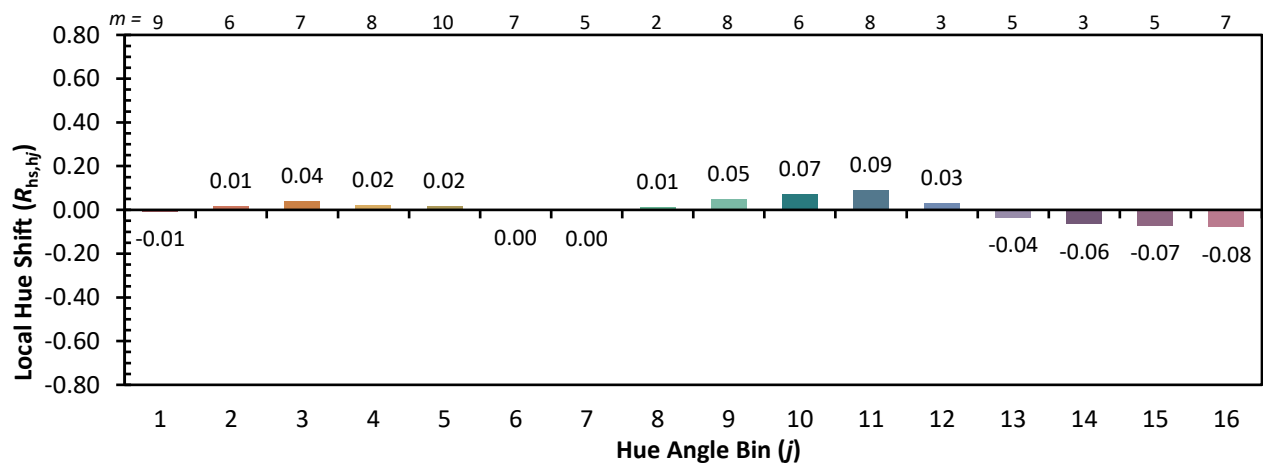
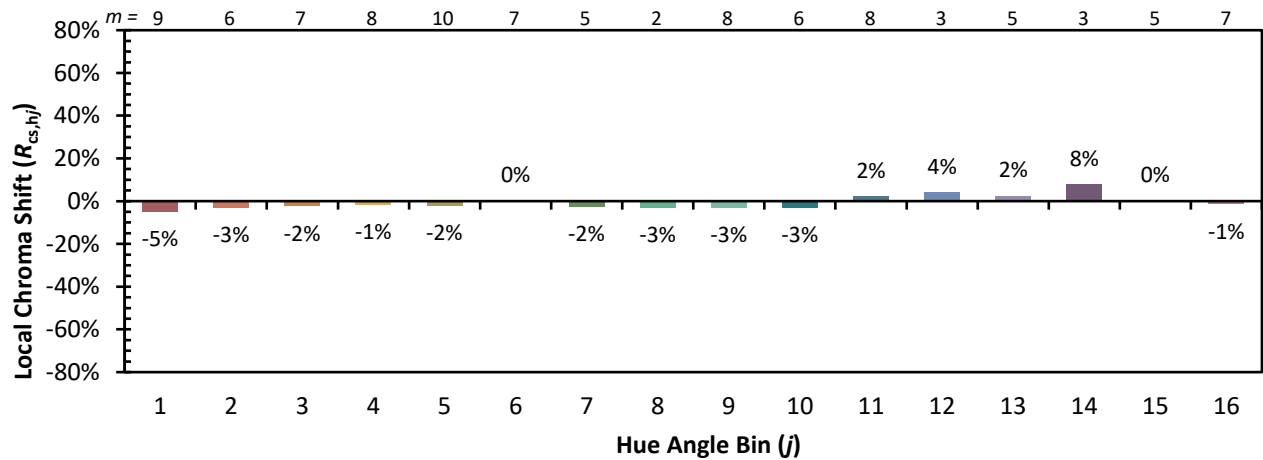


Individual Sample Fidelity Index ($R_{f,i}$)

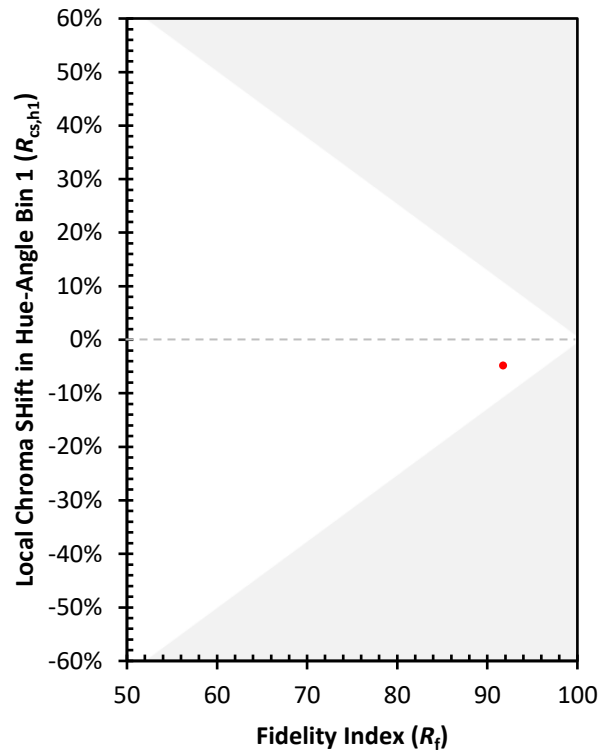
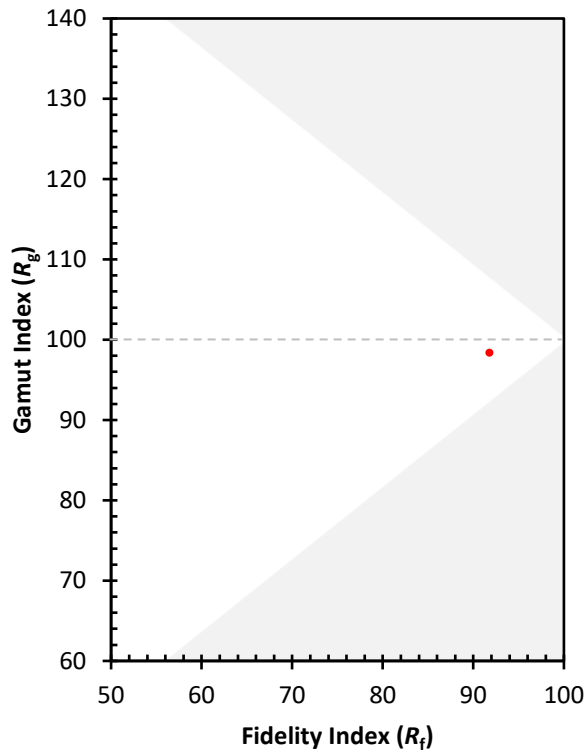
CES01 = 86	CES26 = 94	CES51 = 96	CES76 = 87
CES02 = 62	CES27 = 91	CES52 = 98	CES77 = 90
CES03 = 31	CES28 = 96	CES53 = 95	CES78 = 84
CES04 = 69	CES29 = 96	CES54 = 94	CES79 = 96
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 94
CES06 = 50	CES31 = 97	CES56 = 93	CES81 = 89
CES07 = 42	CES32 = 92	CES57 = 92	CES82 = 97
CES08 = 41	CES33 = 99	CES58 = 92	CES83 = 98
CES09 = 29	CES34 = 94	CES59 = 96	CES84 = 94
CES10 = 74	CES35 = 96	CES60 = 93	CES85 = 85
CES11 = 57	CES36 = 82	CES61 = 92	CES86 = 88
CES12 = 63	CES37 = 95	CES62 = 87	CES87 = 92
CES13 = 43	CES38 = 88	CES63 = 92	CES88 = 96
CES14 = 74	CES39 = 99	CES64 = 89	CES89 = 87
CES15 = 71	CES40 = 98	CES65 = 88	CES90 = 96
CES16 = 47	CES41 = 97	CES66 = 87	CES91 = 74
CES17 = 49	CES42 = 96	CES67 = 86	CES92 = 80
CES18 = 56	CES43 = 96	CES68 = 88	CES93 = 88
CES19 = 71	CES44 = 99	CES69 = 89	CES94 = 82
CES20 = 66	CES45 = 98	CES70 = 86	CES95 = 83
CES21 = 85	CES46 = 97	CES71 = 81	CES96 = 92
CES22 = 78	CES47 = 97	CES72 = 94	CES97 = 95
CES23 = 91	CES48 = 91	CES73 = 81	CES98 = 94
CES24 = 90	CES49 = 96	CES74 = 93	CES99 = 91
CES25 = 71	CES50 = 97	CES75 = 83	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)