

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: P1049529

Luminaire Tested: **GALN-SA9A-722-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049529
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-722-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 9xLight Square PACKAGE
70CRI 2200K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (126) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21474.2 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

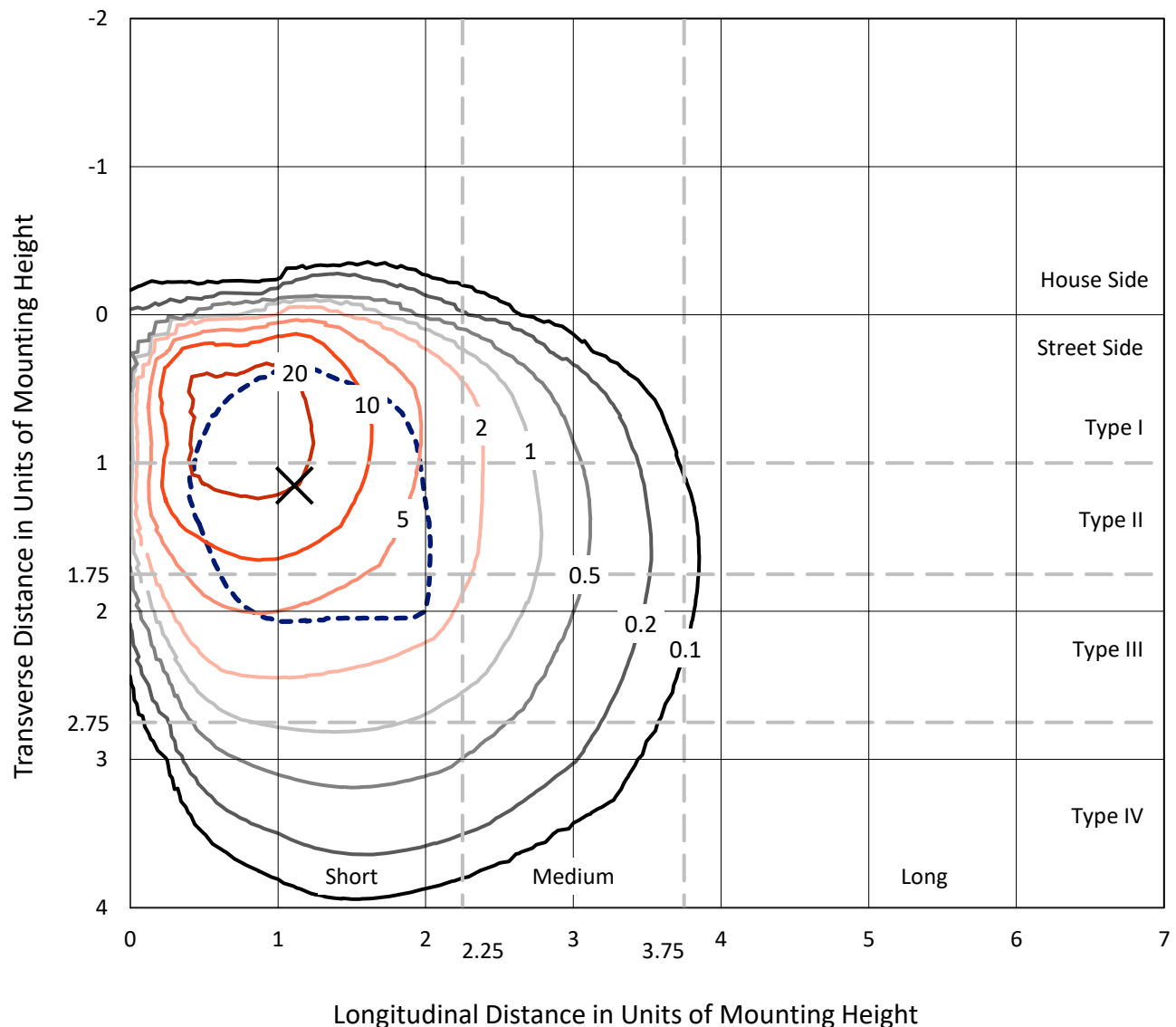
Input Watts (W): 244.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

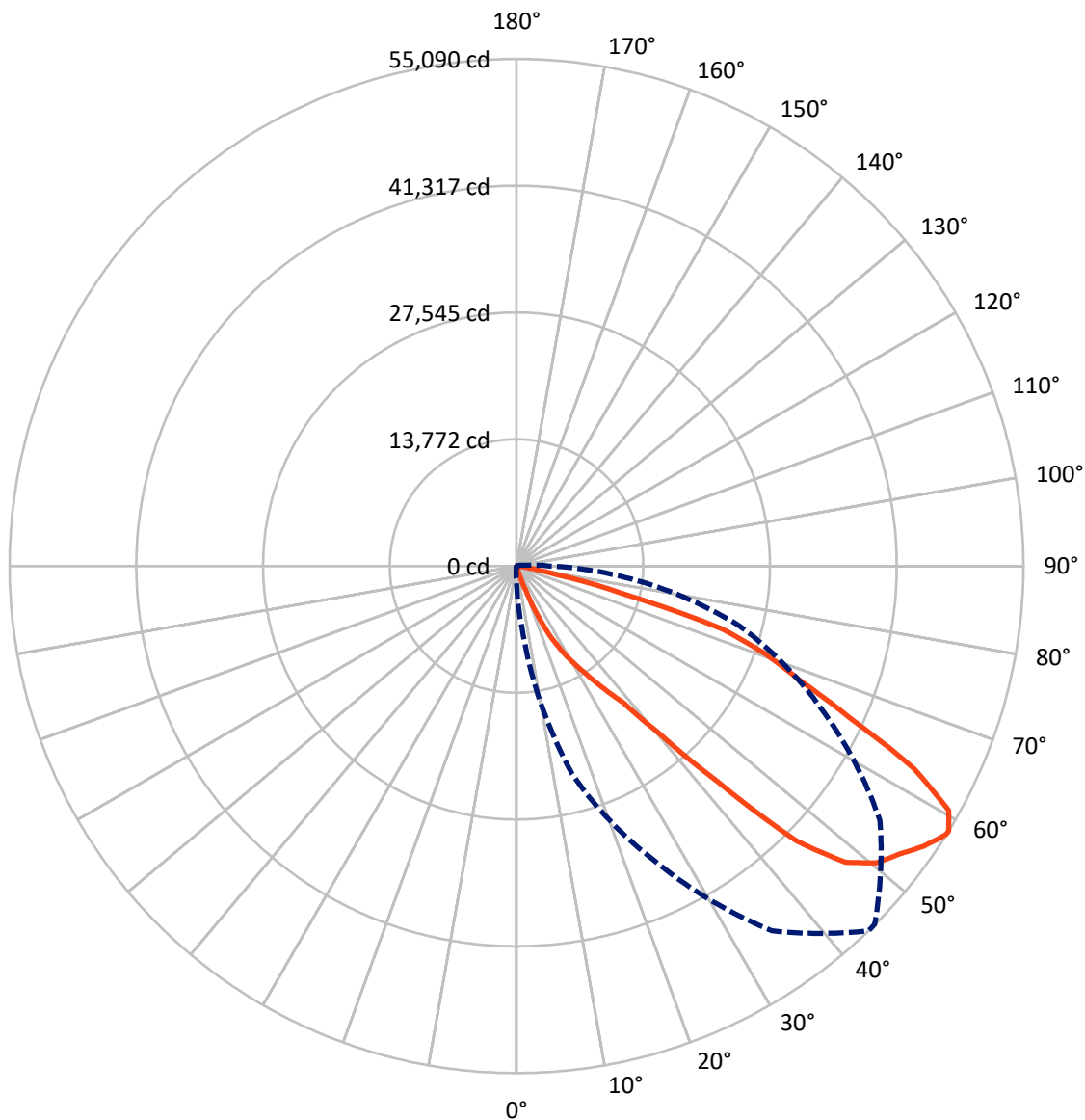


Based on 20 foot mounting height. Maximum calculated value = 37.4 fc
 Type III - Short - N/A

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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	21327.6	0.0	21327.6
	% Fixture	99.3	0.0	99.3
Total	Lumens	21474.2	0.0	21474.2
	% 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°	1504.5	7.0
40°-50°	4484.2	20.9
50°-60°	7115.3	33.1
60°-70°	5935.0	27.6
70°-80°	1830.4	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°	21474.2	100.0
0°-180°	21474.2	100.0



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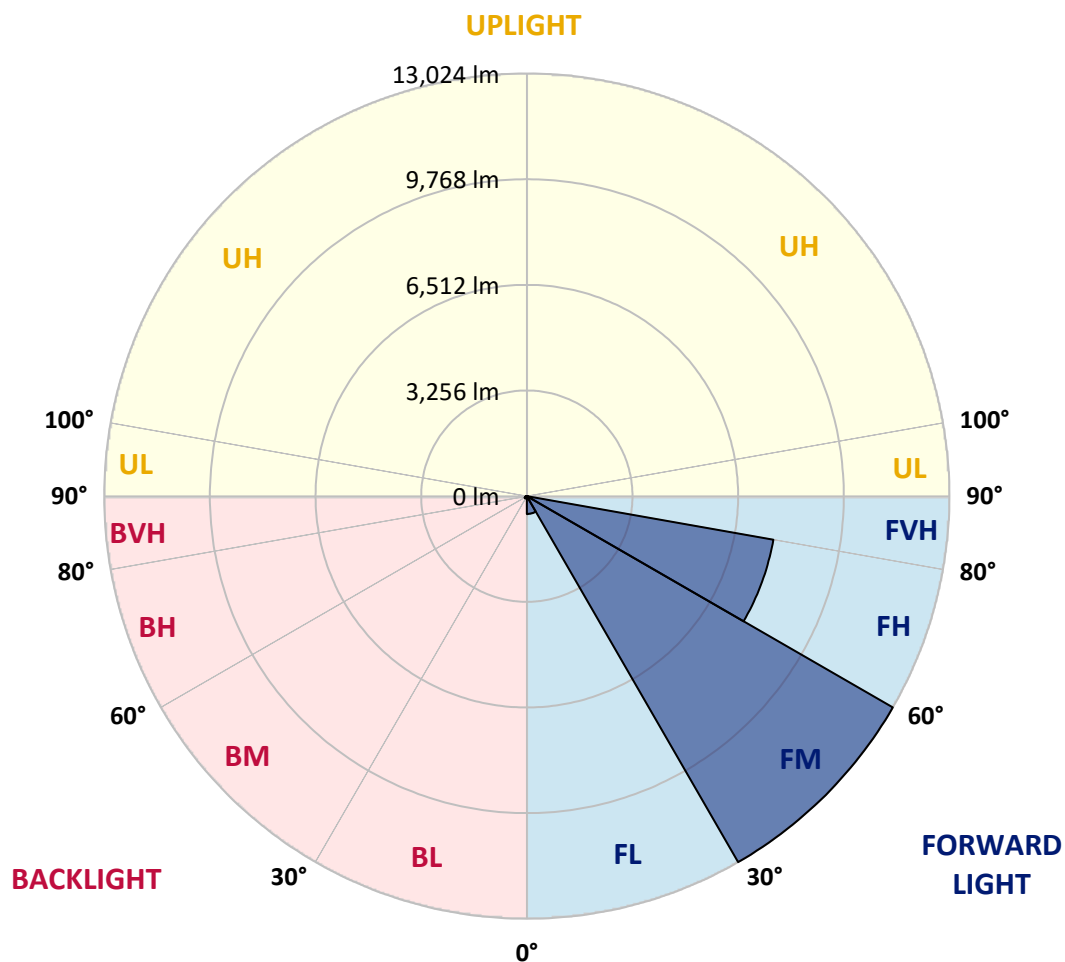
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	549.9	2.6			
FM	(30°-60°)	13023.7	60.6			
FH	(60°-80°)	7715.4	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°)	80.3	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°	85°
0°	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
2.5°	121.7	121.7	116.8	110.3	103.8	97.3	95.7	92.5	90.8	89.2	87.6
5°	126.5	126.5	124.9	120.0	113.6	108.7	108.7	103.8	100.6	97.3	94.1
7.5°	129.8	131.4	134.6	133.0	129.8	124.9	124.9	121.7	116.8	108.7	103.8
10°	134.6	139.5	146.0	149.2	150.9	150.9	149.2	147.6	139.5	128.2	115.2
12.5°	139.5	149.2	165.5	181.7	191.4	204.4	202.8	199.5	178.4	154.1	131.4
15°	149.2	163.8	197.9	245.0	318.0	363.4	381.2	365.0	295.2	207.6	152.5
17.5°	160.6	184.9	287.1	512.6	840.3	996.0	1090.1	1013.9	671.6	394.2	191.4
20°	172.0	225.5	533.7	1328.6	2180.2	2689.6	2830.7	2610.1	1675.7	751.1	283.9
22.5°	191.4	316.3	1082.0	2746.4	4697.9	5461.9	5606.3	4900.6	3164.9	1482.7	426.6
25°	232.0	459.1	1865.5	4475.6	7011.1	8300.8	8240.7	7316.1	5134.2	2368.4	648.9
27.5°	290.4	668.3	2821.0	6359.0	9227.0	10364.2	10500.5	9356.8	6844.0	3482.9	921.4
30°	374.7	926.3	3846.2	7867.6	11003.3	12233.0	12255.7	11073.1	8373.8	4461.0	1255.6
32.5°	455.8	1169.6	4743.3	9326.0	12753.7	14101.7	14202.3	12747.2	9515.8	5479.8	1546.0
35°	517.5	1328.6	5651.7	10607.5	14518.6	16376.0	16369.6	14641.9	10868.7	6389.8	1948.3
37.5°	522.3	1487.6	6474.2	11918.3	16754.0	18833.7	19039.7	17135.2	12503.9	7515.6	2441.4
40°	511.0	1666.0	7515.6	13962.2	20781.9	23972.8	24154.5	21753.6	15783.9	9442.8	3211.9
42.5°	524.0	1975.8	9206.0	17737.1	27470.2	32052.9	32403.3	29879.2	21813.6	13375.0	4585.9
45°	592.1	2558.2	12747.2	24052.3	37003.9	42590.7	42473.9	38838.6	28829.6	19360.9	7304.7
47.5°	817.6	3984.1	17996.6	30198.8	43096.8	48072.1	48172.7	43729.5	32924.0	23963.0	10966.0
50°	1257.2	6096.2	22407.4	33448.0	45716.7	50708.2	50614.1	45479.8	34479.7	26229.3	13209.5
52.5°	1635.2	7624.3	24620.0	34588.4	46052.5	52010.8	52004.3	45940.5	34721.4	26423.9	13490.2
55°	1729.3	7739.5	24637.9	34650.1	46805.2	53715.7	53929.8	47074.4	35034.5	25573.9	12434.1
57.5°	1691.9	6852.1	23609.4	35006.9	48145.1	55034.6	55045.9	48172.7	35829.4	25053.2	10685.4
58°	1659.5	6712.6	23401.8	35209.7	48375.4	55089.7	55062.1	48223.0	36476.7	25033.7	10411.2
60°	1477.8	5828.5	22592.3	35727.2	48033.2	53957.4	53699.5	47124.7	36380.9	24834.2	9030.8
62.5°	1161.5	4547.0	21795.8	35128.6	44363.8	48476.0	48583.1	41721.2	33165.8	23671.1	7403.7
65°	924.7	3388.8	20134.7	30813.6	36531.8	39808.6	40207.7	33926.6	27682.7	20043.8	5458.7
67.5°	736.5	2449.5	16890.3	24532.4	28907.5	33224.2	33514.5	28484.1	21447.0	15357.3	3878.7
70°	598.6	1656.3	11658.7	17941.5	23843.0	28696.6	28714.5	23662.9	16007.8	10062.5	2433.3
72.5°	530.5	1146.9	6767.8	13084.6	19333.3	23383.9	22911.9	19201.9	12302.7	5959.9	1450.2
75°	459.1	760.8	3319.0	7999.0	11722.0	11801.5	11981.5	8907.5	6149.7	2834.0	869.5
77.5°	378.0	540.2	1307.5	2185.1	3515.3	4500.0	4667.1	3536.4	2045.6	697.5	463.9
80°	259.6	256.3	352.0	670.0	1005.8	1260.4	1176.1	910.1	535.3	267.7	165.5
82.5°	111.9	121.7	159.0	191.4	155.7	150.9	144.4	92.5	71.4	55.2	34.1
85°	35.7	32.4	34.1	34.1	27.6	21.1	21.1	9.7	0.0	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	0.0
90°	0.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
2.5°	86.0	86.0	82.7	79.5	77.9	74.6	73.0	71.4	69.8	68.1	66.5
5°	90.8	89.2	84.4	79.5	74.6	69.8	66.5	63.3	60.0	58.4	56.8
7.5°	99.0	95.7	86.0	77.9	71.4	64.9	61.6	56.8	53.5	48.7	47.0
10°	108.7	102.2	89.2	79.5	69.8	61.6	56.8	51.9	47.0	40.6	38.9
12.5°	121.7	110.3	94.1	77.9	66.5	56.8	51.9	45.4	40.6	35.7	32.4
15°	133.0	118.4	95.7	77.9	63.3	51.9	45.4	38.9	34.1	27.6	24.3
17.5°	149.2	124.9	94.1	73.0	58.4	45.4	38.9	34.1	26.0	16.2	13.0
20°	176.8	129.8	90.8	68.1	50.3	37.3	29.2	22.7	11.4	3.2	0.0
22.5°	220.6	142.8	87.6	61.6	43.8	29.2	19.5	8.1	0.0	0.0	0.0
25°	305.0	165.5	87.6	58.4	38.9	21.1	6.5	0.0	0.0	0.0	0.0
27.5°	405.5	196.3	87.6	50.3	30.8	11.4	0.0	0.0	0.0	0.0	0.0
30°	507.7	230.4	87.6	43.8	24.3	1.6	0.0	0.0	0.0	0.0	0.0
32.5°	605.1	259.6	89.2	37.3	16.2	0.0	0.0	0.0	0.0	0.0	0.0
35°	704.0	264.4	87.6	32.4	9.7	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	830.6	254.7	82.7	29.2	4.9	0.0	0.0	0.0	0.0	0.0	0.0
40°	1022.0	259.6	77.9	27.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1375.6	280.6	71.4	27.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2378.1	376.3	64.9	29.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3933.8	676.5	63.3	29.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5020.7	851.7	66.5	30.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5012.6	949.0	69.8	32.4	6.5	0.0	0.0	0.0	0.0	0.0	0.0
55°	4456.2	966.8	74.6	35.7	21.1	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3724.6	882.5	86.0	43.8	38.9	0.0	0.0	0.0	0.0	0.0	0.0
58°	3594.8	843.5	89.2	45.4	42.2	0.0	0.0	0.0	0.0	0.0	0.0
60°	2945.9	687.8	113.6	56.8	56.8	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	2034.2	600.2	129.8	73.0	58.4	0.0	0.0	0.0	0.0	0.0	0.0
65°	1438.9	541.8	141.1	77.9	47.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1075.5	499.6	155.7	79.5	24.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	824.1	468.8	191.4	84.4	6.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	671.6	433.1	232.0	87.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	556.4	390.9	223.9	95.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	369.9	303.4	204.4	95.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	129.8	120.0	159.0	84.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.0

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
2.5°	66.5	66.5	64.9	66.5	66.5	69.8	77.9	89.2	102.2	107.1	111.9
5°	55.2	53.5	51.9	51.9	51.9	56.8	63.3	76.2	90.8	97.3	100.6
7.5°	45.4	43.8	42.2	40.6	40.6	43.8	51.9	66.5	81.1	87.6	92.5
10°	37.3	34.1	32.4	30.8	30.8	34.1	42.2	56.8	73.0	79.5	86.0
12.5°	30.8	26.0	22.7	21.1	19.5	24.3	32.4	45.4	63.3	71.4	77.9
15°	21.1	16.2	11.4	9.7	8.1	13.0	21.1	35.7	53.5	63.3	69.8
17.5°	11.4	4.9	1.6	0.0	0.0	3.2	9.7	26.0	43.8	51.9	60.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.0	32.4	40.6	48.7
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	19.5	27.6	35.7
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	14.6	21.1
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	9.7
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	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	9.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	13.0	17.8
90°	0.0	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):

	285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
0°	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
2.5°	115.2	113.6	110.3	107.1	107.1	107.1	111.9	116.8	121.7	121.7
5°	107.1	107.1	105.4	102.2	102.2	103.8	110.3	118.4	124.9	126.5
7.5°	99.0	102.2	99.0	97.3	99.0	100.6	107.1	116.8	126.5	129.8
10°	94.1	95.7	95.7	94.1	94.1	97.3	103.8	116.8	129.8	134.6
12.5°	87.6	90.8	89.2	89.2	89.2	92.5	100.6	115.2	133.0	139.5
15°	81.1	86.0	86.0	84.4	84.4	86.0	97.3	113.6	137.9	149.2
17.5°	74.6	79.5	81.1	77.9	77.9	81.1	92.5	113.6	141.1	160.6
20°	61.6	69.8	74.6	69.8	69.8	73.0	84.4	107.1	142.8	172.0
22.5°	48.7	56.8	63.3	61.6	61.6	63.3	77.9	102.2	144.4	191.4
25°	35.7	43.8	48.7	51.9	51.9	56.8	71.4	99.0	150.9	232.0
27.5°	21.1	30.8	37.3	40.6	42.2	48.7	66.5	95.7	162.2	290.4
30°	9.7	17.8	26.0	32.4	32.4	43.8	61.6	92.5	176.8	374.7
32.5°	0.0	8.1	13.0	22.7	24.3	35.7	56.8	89.2	197.9	455.8
35°	0.0	0.0	6.5	17.8	17.8	29.2	51.9	86.0	230.4	517.5
37.5°	0.0	0.0	0.0	13.0	14.6	26.0	50.3	84.4	236.8	522.3
40°	0.0	0.0	0.0	9.7	11.4	24.3	50.3	86.0	214.1	511.0
42.5°	0.0	0.0	0.0	6.5	8.1	24.3	50.3	89.2	193.0	524.0
45°	0.0	0.0	0.0	4.9	6.5	26.0	48.7	87.6	181.7	592.1
47.5°	0.0	0.0	0.0	6.5	9.7	26.0	47.0	86.0	183.3	817.6
50°	0.0	0.0	0.0	8.1	11.4	26.0	48.7	82.7	201.2	1257.2
52.5°	0.0	0.0	0.0	6.5	9.7	29.2	53.5	81.1	219.0	1635.2
55°	0.0	0.0	0.0	1.6	4.9	37.3	58.4	81.1	246.6	1729.3
57.5°	0.0	0.0	0.0	0.0	0.0	42.2	66.5	86.0	292.0	1691.9
58°	0.0	0.0	0.0	0.0	0.0	42.2	68.1	86.0	295.2	1659.5
60°	0.0	0.0	0.0	0.0	0.0	42.2	74.6	95.7	318.0	1477.8
62.5°	0.0	0.0	0.0	0.0	0.0	35.7	89.2	120.0	330.9	1161.5
65°	0.0	0.0	0.0	0.0	0.0	29.2	105.4	131.4	340.7	924.7
67.5°	0.0	0.0	0.0	0.0	0.0	27.6	108.7	133.0	345.5	736.5
70°	0.0	0.0	0.0	0.0	0.0	29.2	107.1	142.8	361.7	598.6
72.5°	0.0	0.0	0.0	0.0	0.0	32.4	97.3	157.4	361.7	530.5
75°	0.0	0.0	0.0	0.0	0.0	34.1	90.8	176.8	329.3	459.1
77.5°	0.0	0.0	0.0	0.0	0.0	32.4	89.2	206.0	293.6	378.0
80°	3.2	4.9	4.9	3.2	3.2	27.6	87.6	209.3	249.8	259.6
82.5°	9.7	13.0	11.4	8.1	8.1	24.3	77.9	175.2	129.8	111.9
85°	17.8	21.1	21.1	17.8	17.8	22.7	48.7	63.3	43.8	35.7
87.5°	24.3	27.6	27.6	24.3	24.3	22.7	21.1	19.5	17.8	17.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-2

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-722-U-5WQ

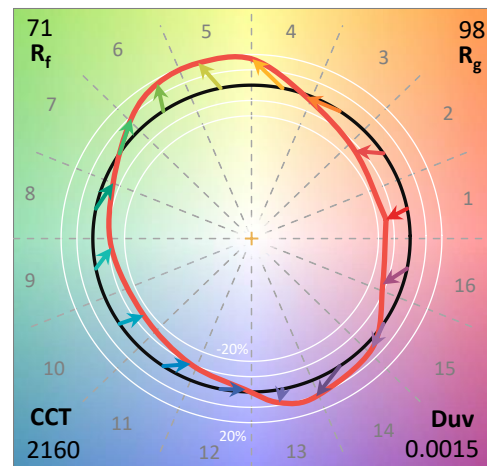
Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-2
 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-722-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2200K CCT 26 LEDS

Spectral Parameters

CCT (K):	2160	CRI (Ra):	71.9		
CIE u':	0.2927	R1:	68.7	R9:	-17.8
CIE v':	0.5388	R2:	82.6	R10:	60.5
Duv:	0.0015	R3:	95.5	R11:	60.2
CIE x:	0.5130	R4:	66.4	R12:	48.2
CIE y:	0.4197	R5:	65.4	R13:	70.7
CIE z:	0.0674	R6:	75.9	R14:	96.8
Peak Wavelength (nm):	609	R7:	77.2	R15:	61.8
Dominant Wavelength (nm):	587	R8:	43.5		
Purity:	79.96089				
Rf:	70.6				
Rg:	97.6				



Test Conditions

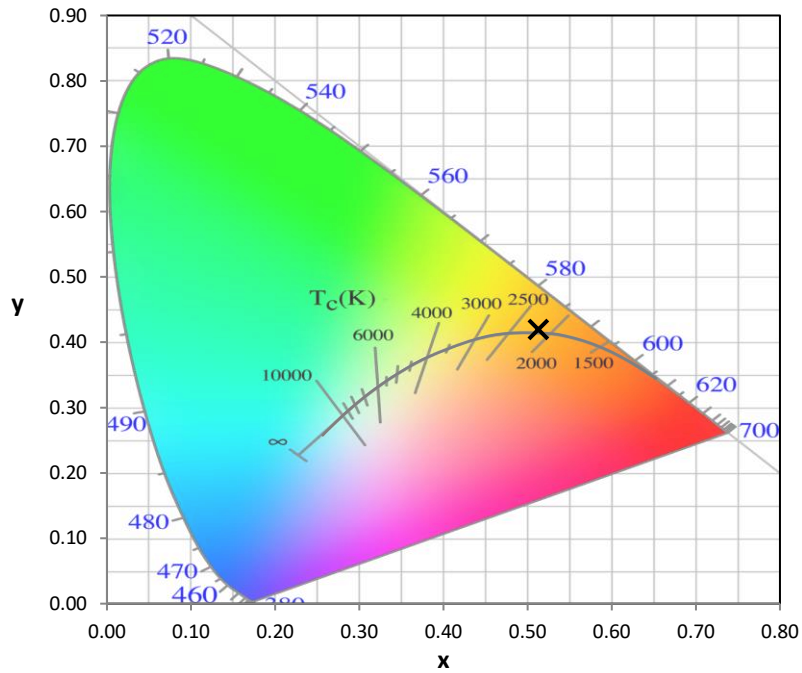
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-2

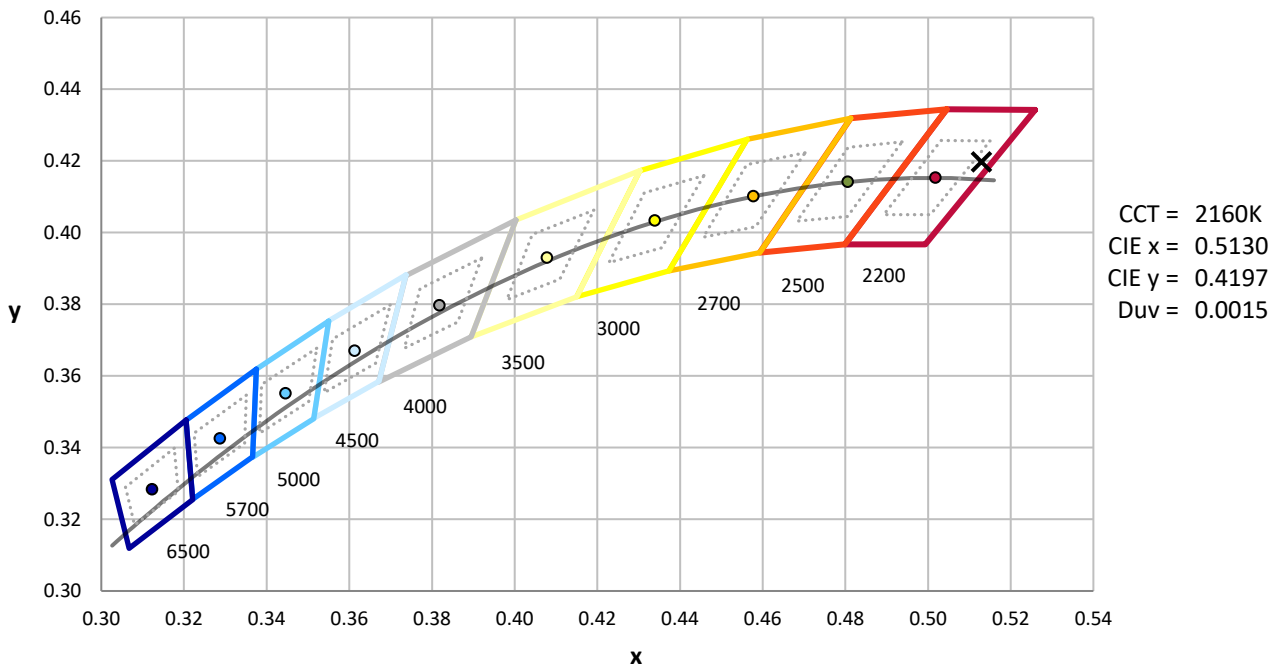
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



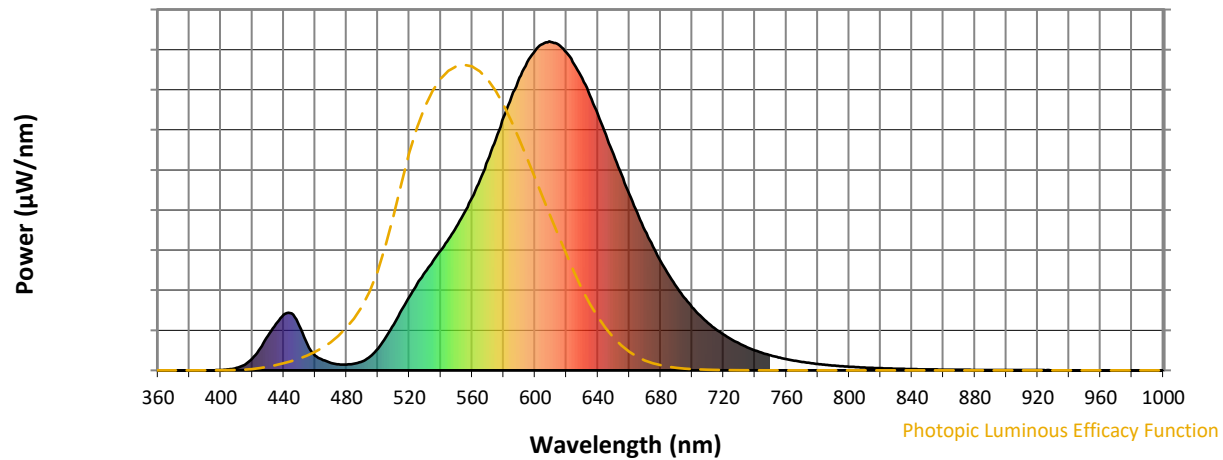
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-2

Photopic Flux vs. Wavelength

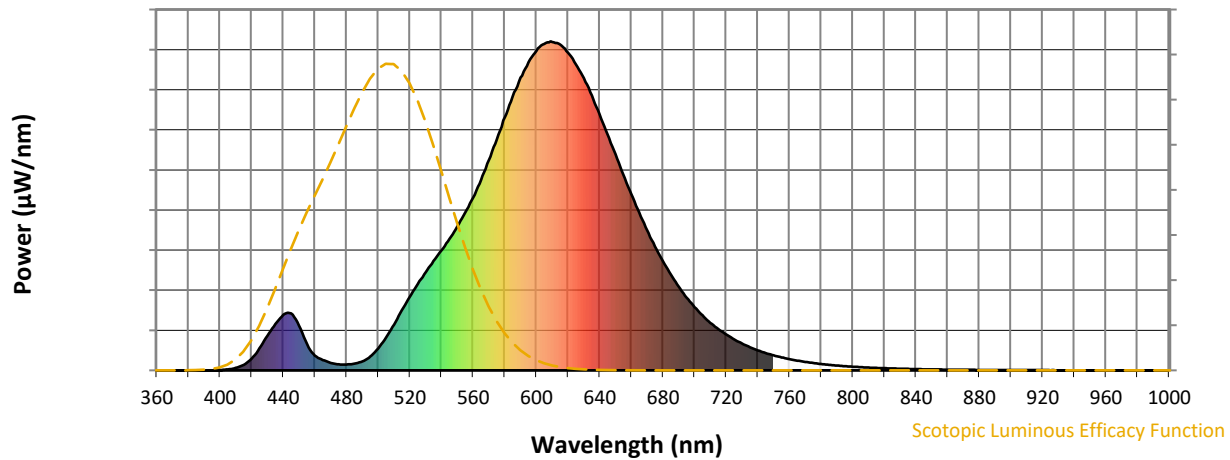


Photopic Lumens: NR

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

Scotopic Flux vs. Wavelength



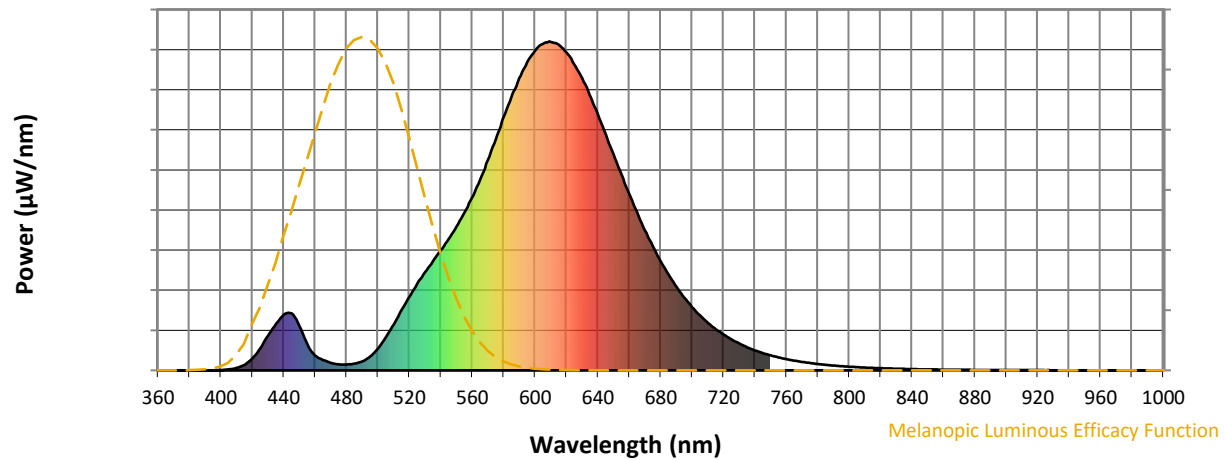
Scotopic Lumens: NR

S/P: 0.8

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.21

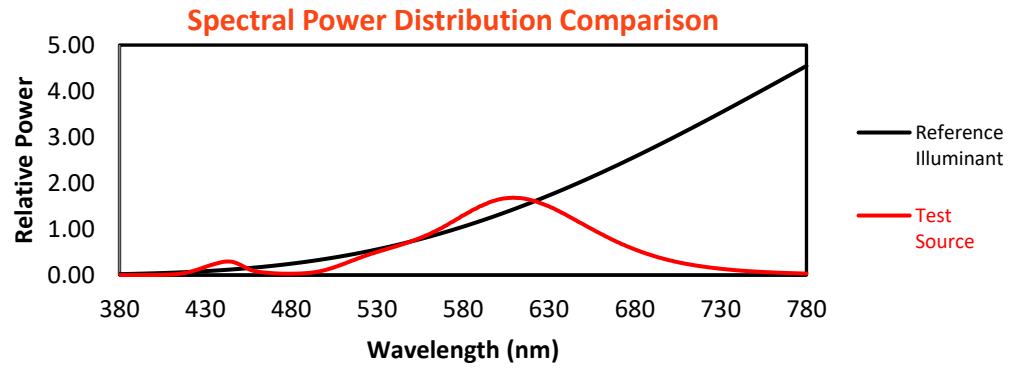
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

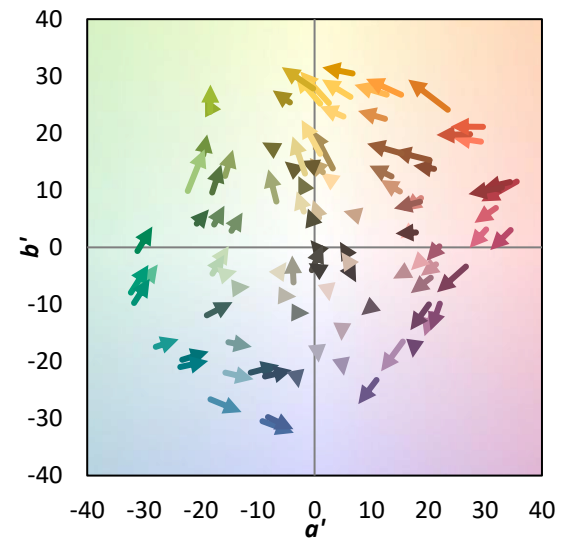
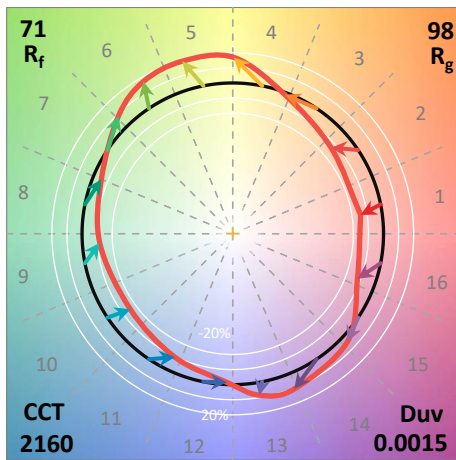
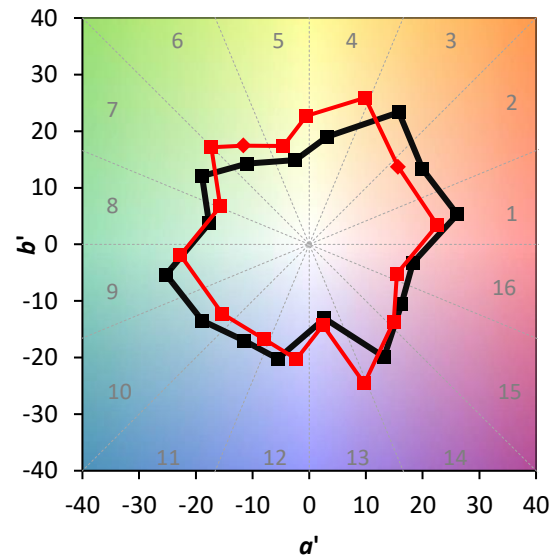
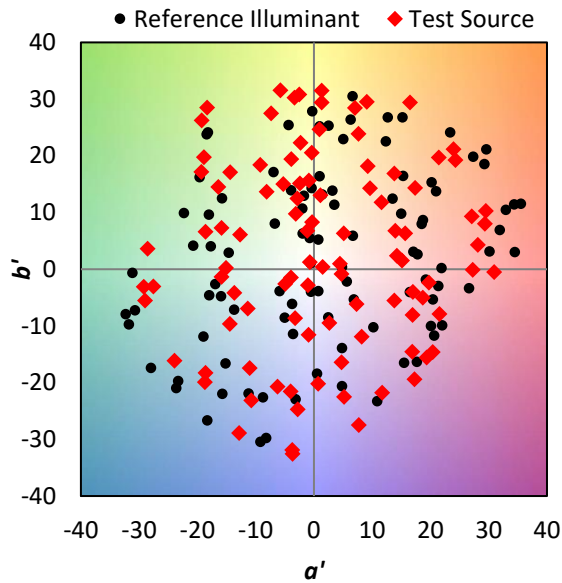
TM-30-18

Summary

$R_f = 70.6$
 $R_g = 97.6$
 $CIE R_a = 71.9$
 $R_g = -17.8$

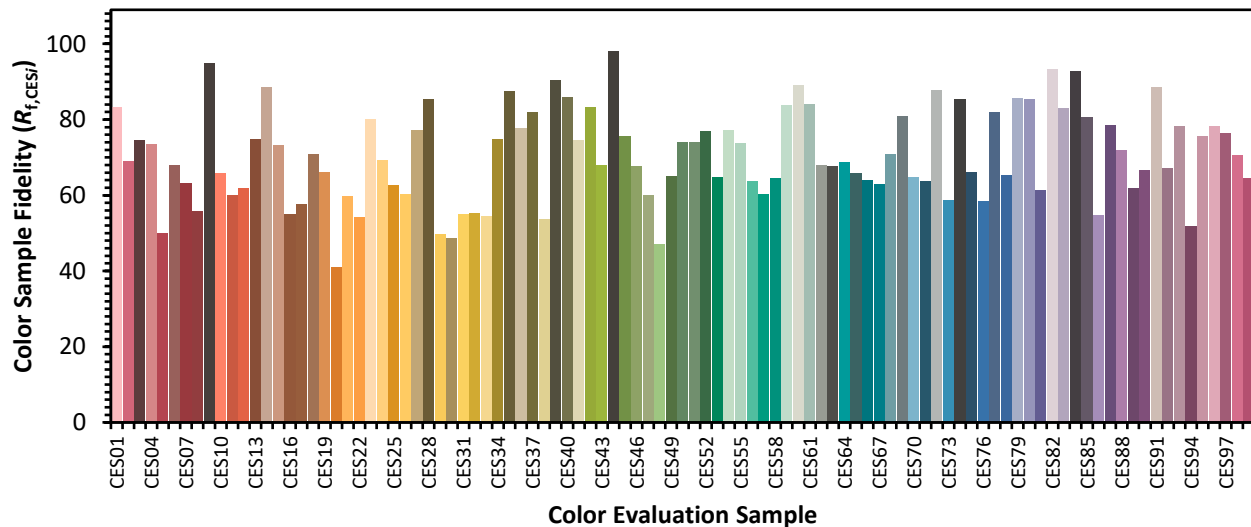


Color Vector Graphics

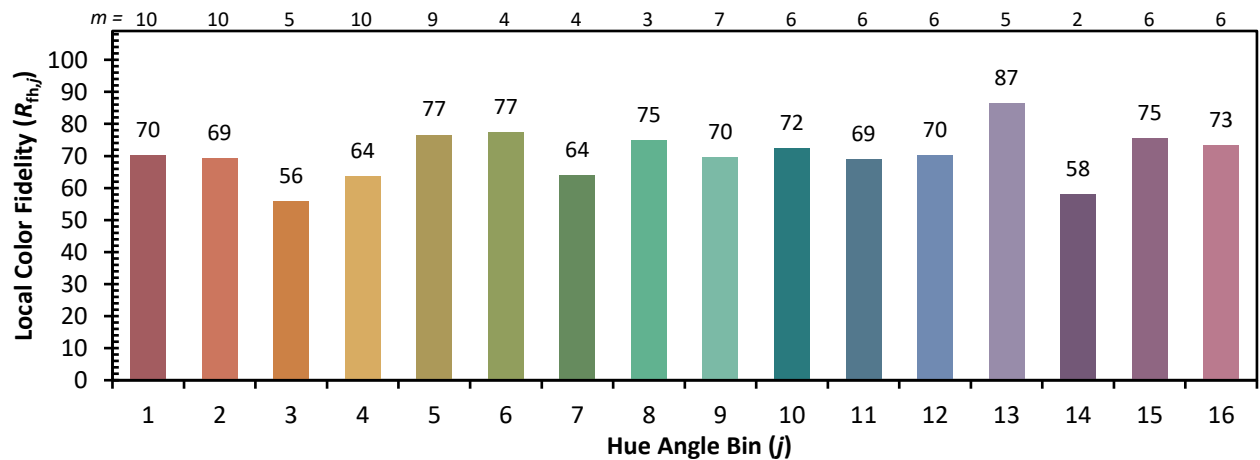
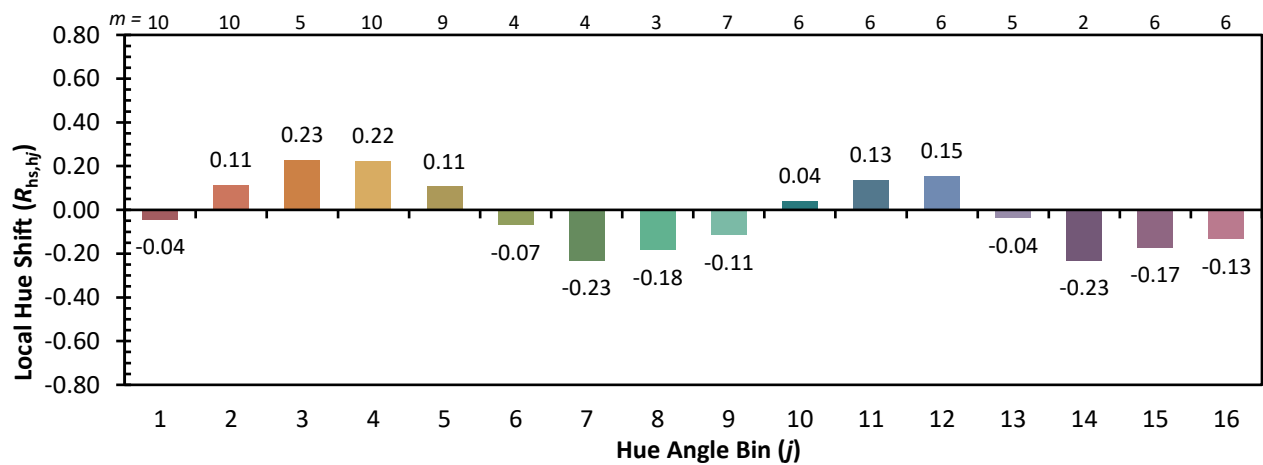
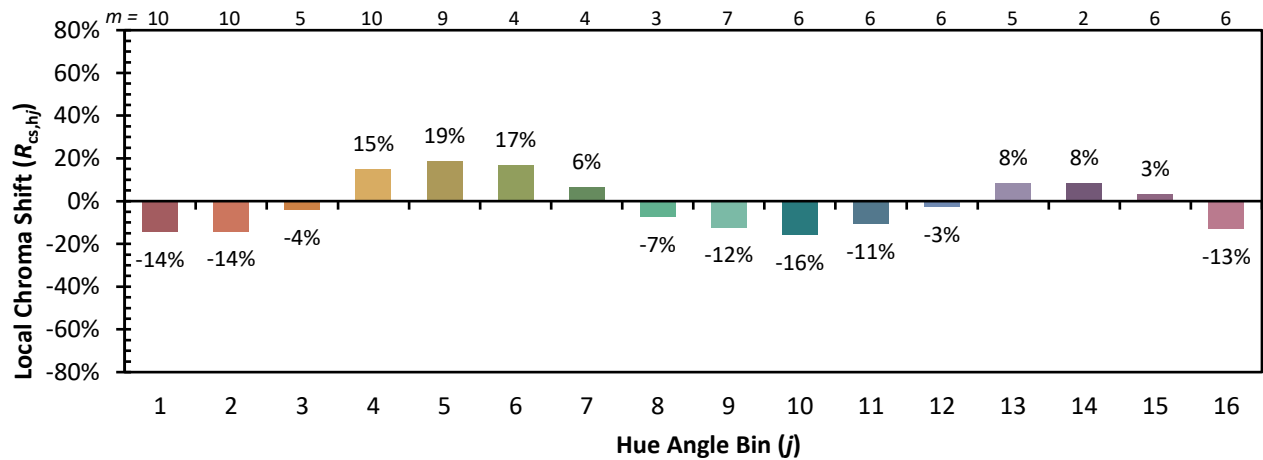


Individual Sample Fidelity Index ($R_{f,i}$)

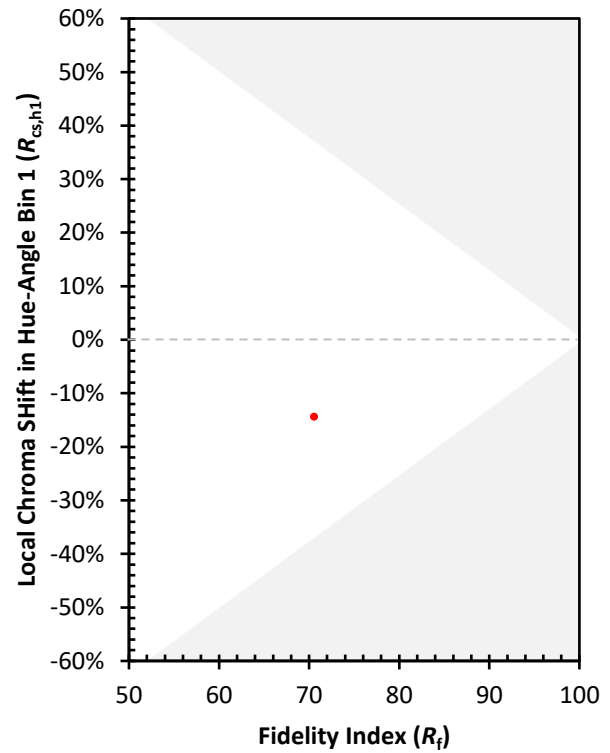
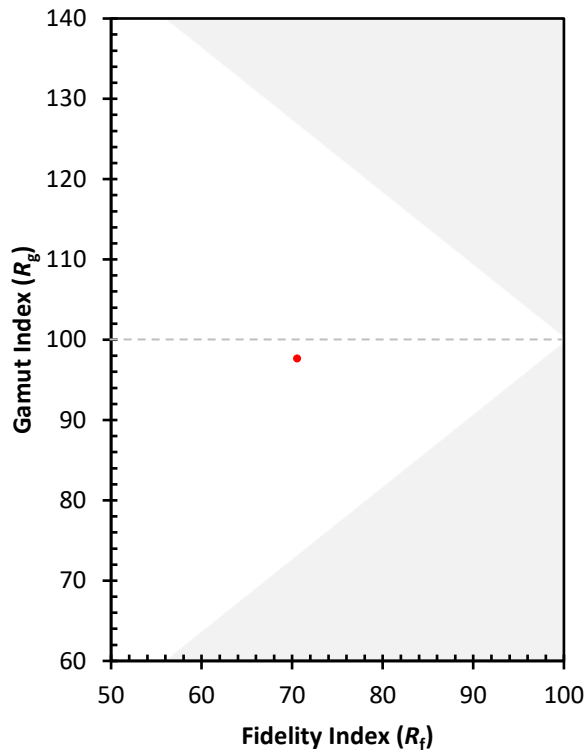
CES01 = 87	CES26 = 60	CES51 = 74	CES76 = 58
CES02 = 65	CES27 = 77	CES52 = 77	CES77 = 82
CES03 = 32	CES28 = 85	CES53 = 65	CES78 = 65
CES04 = 72	CES29 = 50	CES54 = 77	CES79 = 86
CES05 = 52	CES30 = 49	CES55 = 74	CES80 = 85
CES06 = 53	CES31 = 55	CES56 = 64	CES81 = 61
CES07 = 44	CES32 = 55	CES57 = 60	CES82 = 93
CES08 = 43	CES33 = 55	CES58 = 64	CES83 = 83
CES09 = 29	CES34 = 75	CES59 = 84	CES84 = 93
CES10 = 79	CES35 = 88	CES60 = 89	CES85 = 81
CES11 = 62	CES36 = 78	CES61 = 84	CES86 = 55
CES12 = 68	CES37 = 82	CES62 = 68	CES87 = 79
CES13 = 45	CES38 = 54	CES63 = 68	CES88 = 72
CES14 = 75	CES39 = 90	CES64 = 69	CES89 = 62
CES15 = 72	CES40 = 86	CES65 = 66	CES90 = 67
CES16 = 49	CES41 = 75	CES66 = 64	CES91 = 89
CES17 = 51	CES42 = 83	CES67 = 63	CES92 = 67
CES18 = 57	CES43 = 68	CES68 = 71	CES93 = 78
CES19 = 74	CES44 = 98	CES69 = 81	CES94 = 52
CES20 = 68	CES45 = 76	CES70 = 65	CES95 = 76
CES21 = 89	CES46 = 68	CES71 = 64	CES96 = 78
CES22 = 81	CES47 = 60	CES72 = 88	CES97 = 76
CES23 = 92	CES48 = 47	CES73 = 59	CES98 = 71
CES24 = 92	CES49 = 65	CES74 = 85	CES99 = 65
CES25 = 74	CES50 = 74	CES75 = 66	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)