

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: P1049998

Luminaire Tested: **GALN-SA9B-935-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049998
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-935-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 9xLight Square PACKAGE
90CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (126) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26437 lumens
Efficiency: N/A
Efficacy: 84.5 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

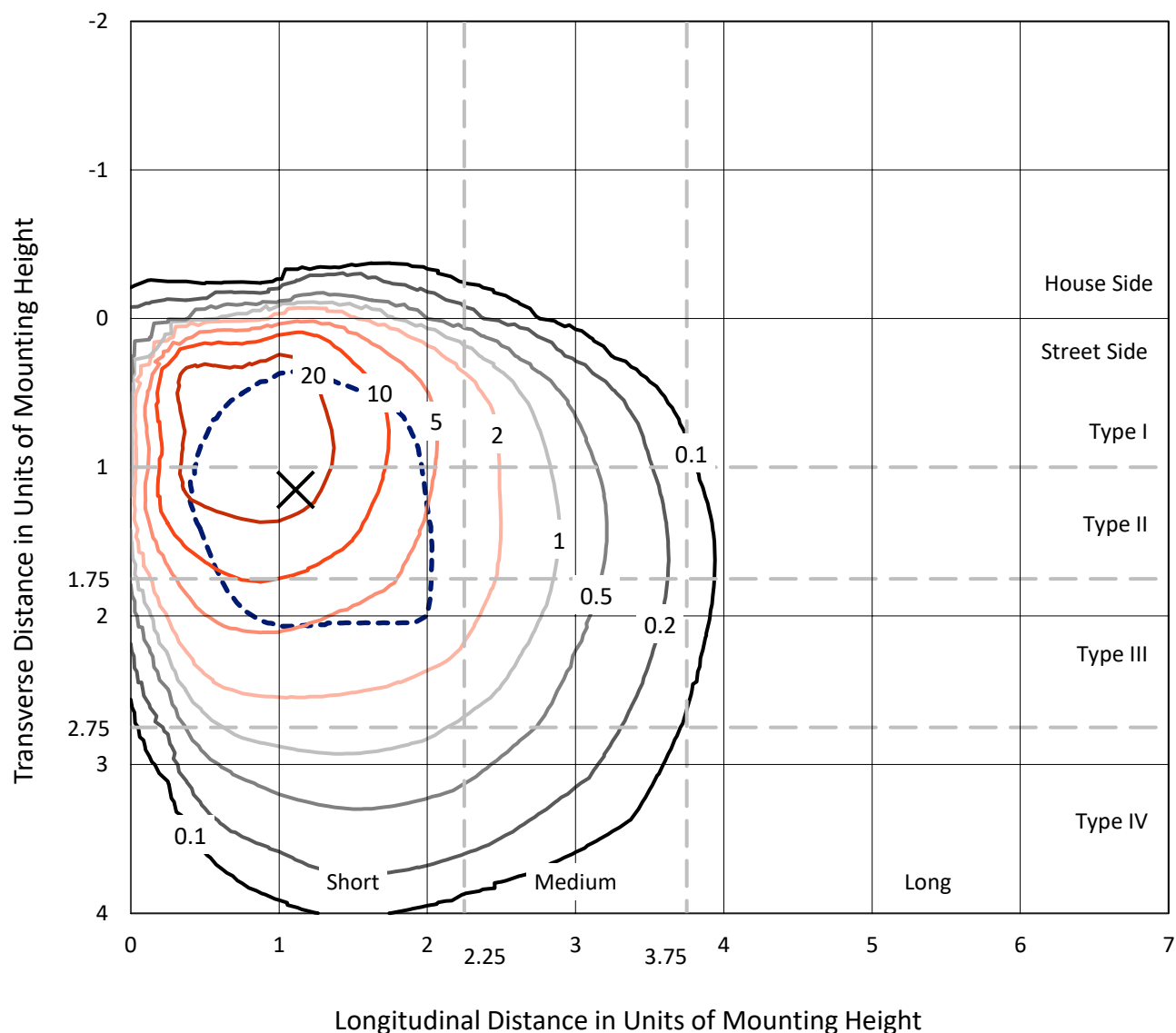
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

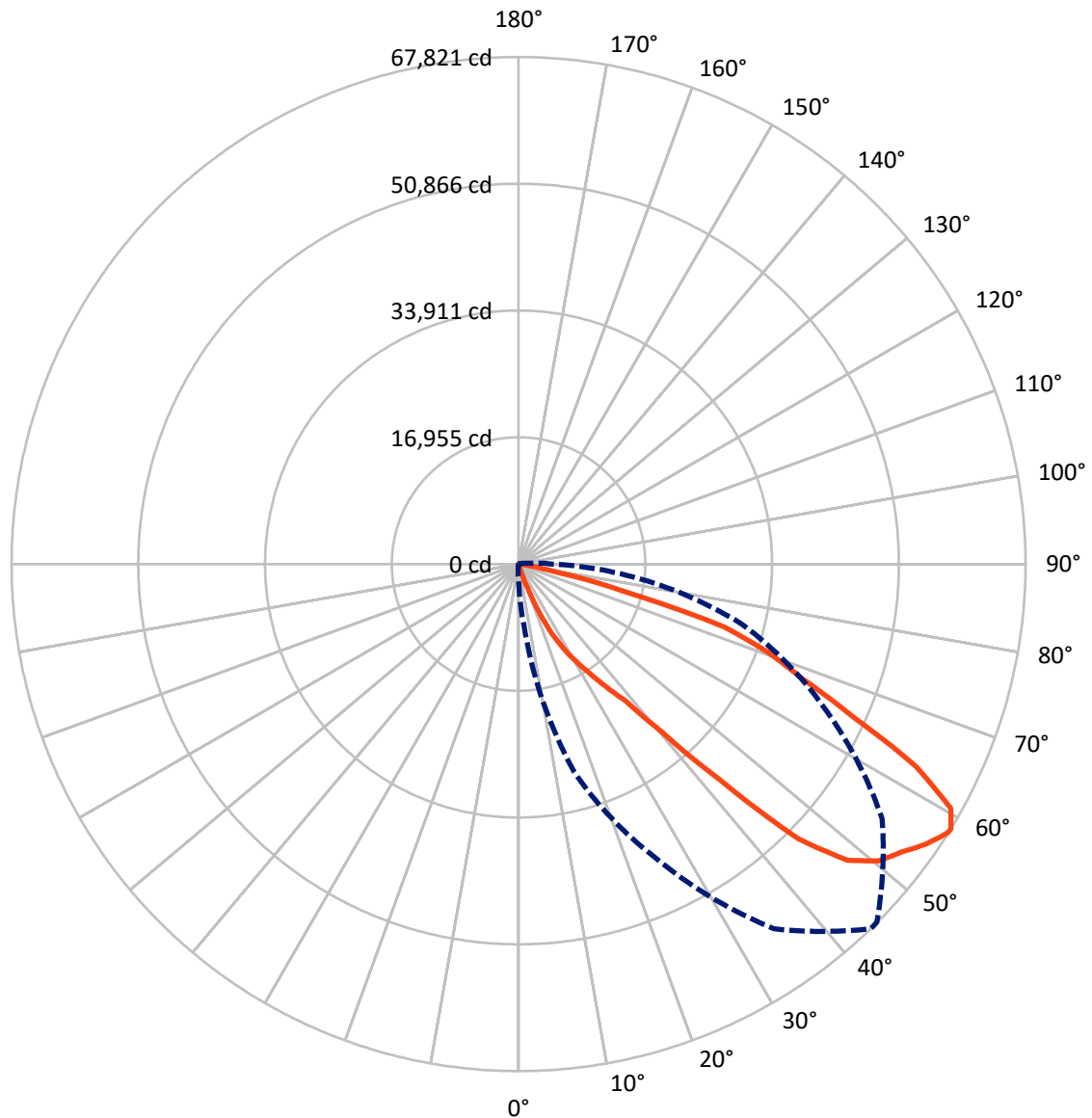


Based on 20 foot mounting height. Maximum calculated value = 46 fc

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	180.5	0.0	180.5
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	26256.5	0.0	26256.5
	% Fixture	99.3	0.0	99.3
Total	Lumens	26437.0	0.0	26437.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.3	0.0
10°-20°	58.0	0.2
20°-30°	626.3	2.4
30°-40°	1852.2	7.0
40°-50°	5520.5	20.9
50°-60°	8759.7	33.1
60°-70°	7306.6	27.6
70°-80°	2253.5	8.5
80°-90°	50.1	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°	26437.0	100.0
0°-180°	26437.0	100.0



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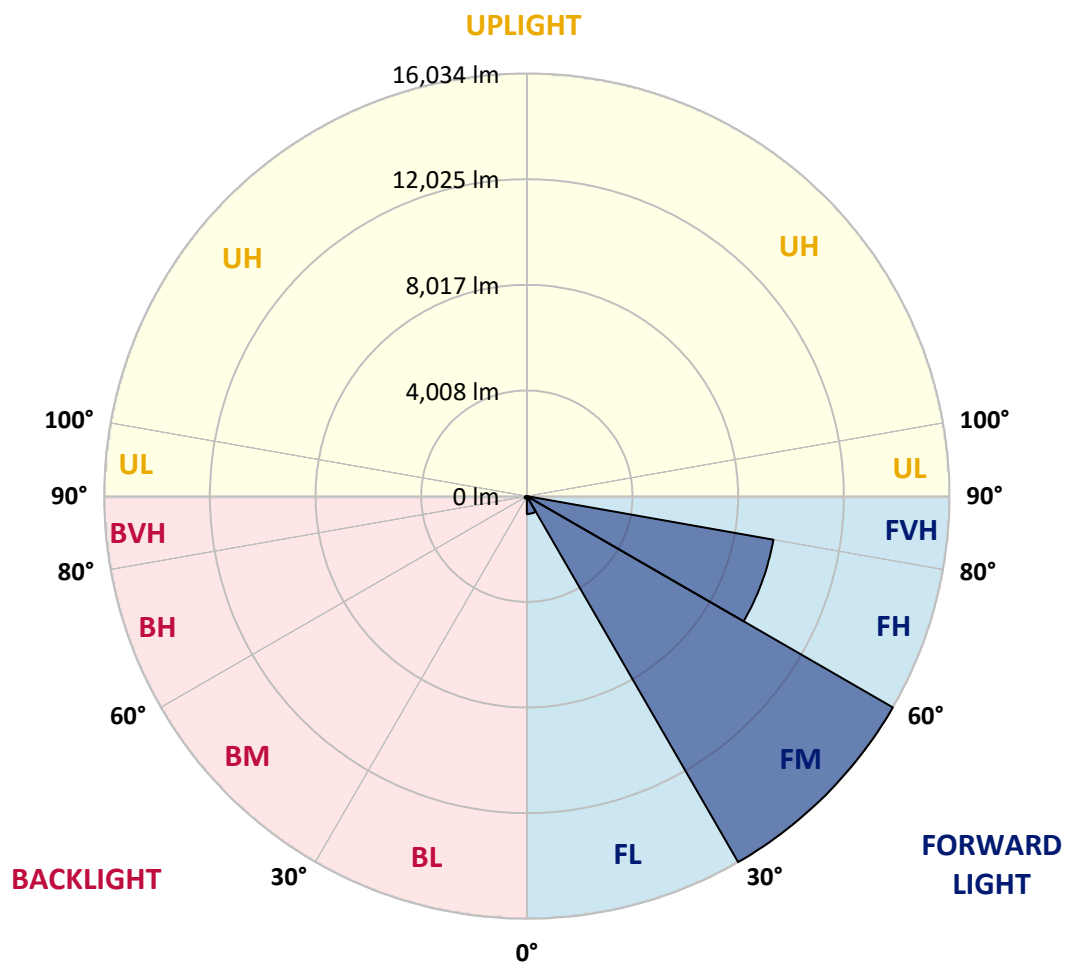
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	676.9	2.6			
FM	(30°-60°)	16033.5	60.6			
FH	(60°-80°)	9498.4	35.9			G4/12000
FVH	(80°-90°)	47.6	0.2			G1/100
BL	(0°-30°)	17.7	0.1	B0/110		
BM	(30°-60°)	98.8	0.4	B0/220		
BH	(60°-80°)	61.6	0.2	B0/110		G0/110
BVH	(80°-90°)	2.4	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°	115.8	115.8	115.8	115.8	115.8	115.8	115.8	115.8	115.8	115.8
2.5°	149.8	149.8	143.8	135.8	127.8	119.8	117.8	113.8	111.8	109.8
5°	155.8	155.8	153.8	147.8	139.8	133.8	133.8	127.8	123.8	119.8
7.5°	159.8	161.8	165.8	163.8	159.8	153.8	153.8	149.8	143.8	133.8
10°	165.8	171.8	179.7	183.7	185.7	185.7	183.7	181.7	171.8	157.8
12.5°	171.8	183.7	203.7	223.7	235.7	251.6	249.6	245.6	219.7	189.7
15°	183.7	201.7	243.6	301.6	391.4	447.3	469.3	449.3	363.5	255.6
17.5°	197.7	227.7	353.5	631.1	1034.5	1226.2	1342.0	1248.2	826.8	485.3
20°	211.7	277.6	657.0	1635.6	2684.1	3311.2	3484.9	3213.3	2063.0	924.7
22.5°	235.7	389.4	1332.1	3381.1	5783.6	6724.2	6902.0	6033.2	3896.3	1825.3
25°	285.6	565.2	2296.7	5510.0	8631.4	10219.1	10145.2	9006.9	6320.8	2915.8
27.5°	357.5	822.8	3472.9	7828.6	11359.5	12759.4	12927.2	11519.2	8425.7	4287.8
30°	461.3	1140.3	4735.1	9685.9	13546.3	15060.1	15088.0	13632.2	10309.0	5492.0
32.5°	561.2	1439.9	5839.5	11481.3	15701.2	17360.7	17484.6	15693.2	11715.0	6746.2
35°	637.1	1635.6	6957.9	13059.0	17874.0	20160.7	20152.7	18025.8	13380.5	7866.6
37.5°	643.1	1831.3	7970.4	14672.7	20626.0	23186.3	23439.9	21095.3	15393.6	9252.5
40°	629.1	2051.0	9252.5	17189.0	25584.8	29513.1	29736.7	26781.0	19431.7	11625.1
42.5°	645.1	2432.5	11333.5	21836.2	33818.8	39460.6	39892.0	36784.5	26854.9	16466.0
45°	728.9	3149.4	15693.2	29610.9	45555.7	52433.7	52289.9	47814.4	35492.4	23835.3
47.5°	1006.5	4904.9	22155.8	37177.9	53056.8	59181.9	59305.7	53835.7	40533.0	29501.1
50°	1547.7	7505.1	27585.9	41178.1	56282.1	62427.2	62311.3	55990.5	42448.2	32291.0
52.5°	2013.1	9386.3	30309.9	42582.0	56695.5	64030.8	64022.9	56557.7	42745.8	32530.7
55°	2128.9	9528.1	30331.9	42657.9	57622.2	66129.8	66393.4	57953.7	43131.2	31484.2
57.5°	2083.0	8435.7	29065.7	43097.3	59271.8	67753.4	67767.4	59305.7	44109.8	30843.1
58°	2043.0	8264.0	28810.1	43346.9	59555.4	67821.3	67787.4	59367.6	44906.7	30819.2
60°	1819.4	7175.6	27813.5	43984.0	59134.0	66427.4	66109.8	58015.6	44788.8	30573.5
62.5°	1429.9	5597.9	26833.0	43247.1	54616.5	59679.2	59811.0	51363.3	40830.6	29141.6
65°	1138.3	4171.9	24787.9	37934.8	44974.6	49008.7	49500.0	41767.2	34080.4	24676.1
67.5°	906.7	3015.6	20793.7	30202.1	35588.2	40902.5	41260.0	35067.0	26403.6	18906.5
70°	736.9	2039.0	14353.1	22087.9	29353.3	35328.6	35350.6	29131.6	19707.3	12388.0
72.5°	653.0	1411.9	8331.9	16108.6	23801.4	28788.1	28207.0	23639.6	15146.0	7337.3
75°	565.2	936.6	4086.1	9847.7	14431.0	14528.9	14750.5	10966.0	7571.0	3488.9
77.5°	465.3	665.0	1609.7	2690.1	4327.7	5539.9	5745.6	4353.7	2518.3	858.8
80°	319.5	315.5	433.4	824.8	1238.2	1551.7	1447.9	1120.4	659.0	329.5
82.5°	137.8	149.8	195.7	235.7	191.7	185.7	177.7	113.8	87.9	67.9
85°	43.9	39.9	41.9	41.9	34.0	26.0	26.0	12.0	0.0	0.0
87.5°	22.0	18.0	18.0	16.0	10.0	4.0	2.0	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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
115.8	0°	115.8	115.8	115.8	115.8	115.8	115.8	115.8	115.8	115.8	115.8
107.8	2.5°	105.8	105.8	101.9	97.9	95.9	91.9	89.9	87.9	85.9	83.9
115.8	5°	111.8	109.8	103.8	97.9	91.9	85.9	81.9	77.9	73.9	71.9
127.8	7.5°	121.8	117.8	105.8	95.9	87.9	79.9	75.9	69.9	65.9	59.9
141.8	10°	133.8	125.8	109.8	97.9	85.9	75.9	69.9	63.9	57.9	49.9
161.8	12.5°	149.8	135.8	115.8	95.9	81.9	69.9	63.9	55.9	49.9	43.9
187.7	15°	163.8	145.8	117.8	95.9	77.9	63.9	55.9	47.9	41.9	34.0
235.7	17.5°	183.7	153.8	115.8	89.9	71.9	55.9	47.9	41.9	32.0	20.0
349.5	20°	217.7	159.8	111.8	83.9	61.9	45.9	35.9	28.0	14.0	4.0
525.2	22.5°	271.6	175.7	107.8	75.9	53.9	35.9	24.0	10.0	0.0	0.0
798.8	25°	375.5	203.7	107.8	71.9	47.9	26.0	8.0	0.0	0.0	0.0
1134.3	27.5°	499.3	241.6	107.8	61.9	37.9	14.0	0.0	0.0	0.0	0.0
1545.8	30°	625.1	283.6	107.8	53.9	30.0	2.0	0.0	0.0	0.0	0.0
1903.2	32.5°	744.9	319.5	109.8	45.9	20.0	0.0	0.0	0.0	0.0	0.0
2398.5	35°	866.7	325.5	107.8	39.9	12.0	0.0	0.0	0.0	0.0	0.0
3005.6	37.5°	1022.5	313.5	101.9	35.9	6.0	0.0	0.0	0.0	0.0	0.0
3954.2	40°	1258.2	319.5	95.9	34.0	2.0	0.0	0.0	0.0	0.0	0.0
5645.8	42.5°	1693.5	345.5	87.9	34.0	0.0	0.0	0.0	0.0	0.0	0.0
8992.9	45°	2927.7	463.3	79.9	35.9	0.0	0.0	0.0	0.0	0.0	0.0
13500.4	47.5°	4843.0	832.8	77.9	35.9	0.0	0.0	0.0	0.0	0.0	0.0
16262.3	50°	6181.0	1048.5	81.9	37.9	0.0	0.0	0.0	0.0	0.0	0.0
16607.8	52.5°	6171.0	1168.3	85.9	39.9	8.0	0.0	0.0	0.0	0.0	0.0
15307.7	55°	5486.0	1190.3	91.9	43.9	26.0	0.0	0.0	0.0	0.0	0.0
13154.9	57.5°	4585.3	1086.4	105.8	53.9	47.9	0.0	0.0	0.0	0.0	0.0
12817.4	58°	4425.6	1038.5	109.8	55.9	51.9	0.0	0.0	0.0	0.0	0.0
11117.8	60°	3626.7	846.8	139.8	69.9	69.9	0.0	0.0	0.0	0.0	0.0
9114.7	62.5°	2504.4	738.9	159.8	89.9	71.9	0.0	0.0	0.0	0.0	0.0
6720.2	65°	1771.4	667.0	173.7	95.9	57.9	0.0	0.0	0.0	0.0	0.0
4775.1	67.5°	1324.1	615.1	191.7	97.9	30.0	0.0	0.0	0.0	0.0	0.0
2995.6	70°	1014.5	577.2	235.7	103.8	8.0	0.0	0.0	0.0	0.0	0.0
1785.4	72.5°	826.8	533.2	285.6	107.8	0.0	0.0	0.0	0.0	0.0	0.0
1070.4	75°	685.0	481.3	275.6	117.8	0.0	0.0	0.0	0.0	0.0	0.0
571.2	77.5°	455.3	373.5	251.6	117.8	0.0	0.0	0.0	0.0	0.0	0.0
203.7	80°	159.8	147.8	195.7	103.8	0.0	0.0	0.0	0.0	0.0	0.0
41.9	82.5°	24.0	20.0	28.0	35.9	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

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CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
115.8	0°	115.8	115.8	115.8	115.8	115.8	115.8	115.8	115.8	115.8	115.8
81.9	2.5°	81.9	81.9	79.9	81.9	81.9	85.9	95.9	109.8	125.8	131.8
69.9	5°	67.9	65.9	63.9	63.9	63.9	69.9	77.9	93.9	111.8	119.8
57.9	7.5°	55.9	53.9	51.9	49.9	49.9	53.9	63.9	81.9	99.9	107.8
47.9	10°	45.9	41.9	39.9	37.9	37.9	41.9	51.9	69.9	89.9	97.9
39.9	12.5°	37.9	32.0	28.0	26.0	24.0	30.0	39.9	55.9	77.9	87.9
30.0	15°	26.0	20.0	14.0	12.0	10.0	16.0	26.0	43.9	65.9	77.9
16.0	17.5°	14.0	6.0	2.0	0.0	0.0	4.0	12.0	32.0	53.9	63.9
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.0	39.9	49.9
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	24.0	34.0
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	18.0
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
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	6.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	16.0
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°
115.8	0°	115.8	115.8	115.8	115.8	115.8	115.8	115.8	115.8	115.8	115.8
137.8	2.5°	141.8	139.8	135.8	131.8	131.8	131.8	137.8	143.8	149.8	149.8
123.8	5°	131.8	131.8	129.8	125.8	125.8	127.8	135.8	145.8	153.8	155.8
113.8	7.5°	121.8	125.8	121.8	119.8	121.8	123.8	131.8	143.8	155.8	159.8
105.8	10°	115.8	117.8	117.8	115.8	115.8	119.8	127.8	143.8	159.8	165.8
95.9	12.5°	107.8	111.8	109.8	109.8	109.8	113.8	123.8	141.8	163.8	171.8
85.9	15°	99.9	105.8	105.8	103.8	103.8	105.8	119.8	139.8	169.8	183.7
73.9	17.5°	91.9	97.9	99.9	95.9	95.9	99.9	113.8	139.8	173.7	197.7
59.9	20°	75.9	85.9	91.9	85.9	85.9	89.9	103.8	131.8	175.7	211.7
43.9	22.5°	59.9	69.9	77.9	75.9	75.9	77.9	95.9	125.8	177.7	235.7
26.0	25°	43.9	53.9	59.9	63.9	63.9	69.9	87.9	121.8	185.7	285.6
12.0	27.5°	26.0	37.9	45.9	49.9	51.9	59.9	81.9	117.8	199.7	357.5
0.0	30°	12.0	22.0	32.0	39.9	39.9	53.9	75.9	113.8	217.7	461.3
0.0	32.5°	0.0	10.0	16.0	28.0	30.0	43.9	69.9	109.8	243.6	561.2
0.0	35°	0.0	0.0	8.0	22.0	22.0	35.9	63.9	105.8	283.6	637.1
0.0	37.5°	0.0	0.0	0.0	16.0	18.0	32.0	61.9	103.8	291.6	643.1
0.0	40°	0.0	0.0	0.0	12.0	14.0	30.0	61.9	105.8	263.6	629.1
0.0	42.5°	0.0	0.0	0.0	8.0	10.0	30.0	61.9	109.8	237.7	645.1
0.0	45°	0.0	0.0	0.0	6.0	8.0	32.0	59.9	107.8	223.7	728.9
0.0	47.5°	0.0	0.0	0.0	8.0	12.0	32.0	57.9	105.8	225.7	1006.5
0.0	50°	0.0	0.0	0.0	10.0	14.0	32.0	59.9	101.9	247.6	1547.7
0.0	52.5°	0.0	0.0	0.0	8.0	12.0	35.9	65.9	99.9	269.6	2013.1
0.0	55°	0.0	0.0	0.0	2.0	6.0	45.9	71.9	99.9	303.6	2128.9
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	51.9	81.9	105.8	359.5	2083.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	51.9	83.9	105.8	363.5	2043.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	51.9	91.9	117.8	391.4	1819.4
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	43.9	109.8	147.8	407.4	1429.9
0.0	65°	0.0	0.0	0.0	0.0	0.0	35.9	129.8	161.8	419.4	1138.3
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	34.0	133.8	163.8	425.4	906.7
0.0	70°	0.0	0.0	0.0	0.0	0.0	35.9	131.8	175.7	445.4	736.9
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	39.9	119.8	193.7	445.4	653.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	41.9	111.8	217.7	405.4	565.2
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	39.9	109.8	253.6	361.5	465.3
0.0	80°	4.0	6.0	6.0	4.0	4.0	34.0	107.8	257.6	307.6	319.5
2.0	82.5°	12.0	16.0	14.0	10.0	10.0	30.0	95.9	215.7	159.8	137.8
12.0	85°	22.0	26.0	26.0	22.0	22.0	28.0	59.9	77.9	53.9	43.9
22.0	87.5°	30.0	34.0	34.0	30.0	30.0	28.0	26.0	24.0	22.0	22.0
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: SP1-2407-184-15

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-935-U-5WQ

Data in this report applies to families of products including GSS-SB1A-935-U-5WQ

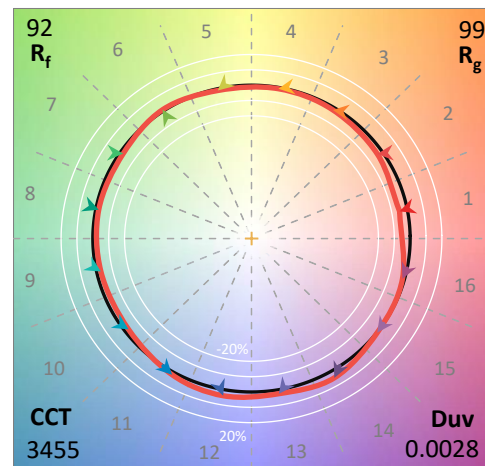
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-15
 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-935-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 3500K CCT 26 LEDS

Spectral Parameters

CCT (K): 3455
 CIE u' : 0.2356
 CIE v' : 0.5159
 Duv: 0.0028
 CIE x: 0.4109
 CIE y: 0.3999
 CIE z: 0.1892
 Peak Wavelength (nm): 616
 Dominant Wavelength (nm): 579
 Purity: 43.35383
 R_f: 92.3
 R_g: 98.5

CRI (Ra): 92.2
 R1: 92.0
 R2: 94.4
 R3: 95.6
 R4: 93.2
 R5: 91.4
 R6: 92.5
 R7: 94.5
 R8: 84.2
 R9: 59.8
 R10: 85.8
 R11: 93.2
 R12: 78.0
 R13: 92.5
 R14: 97.0
 R15: 88.4



Test Conditions

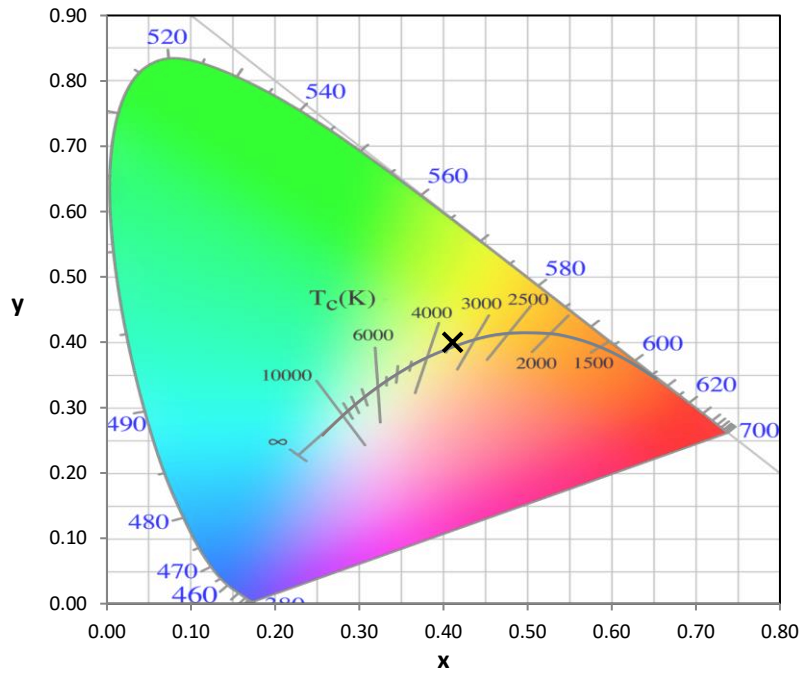
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-15

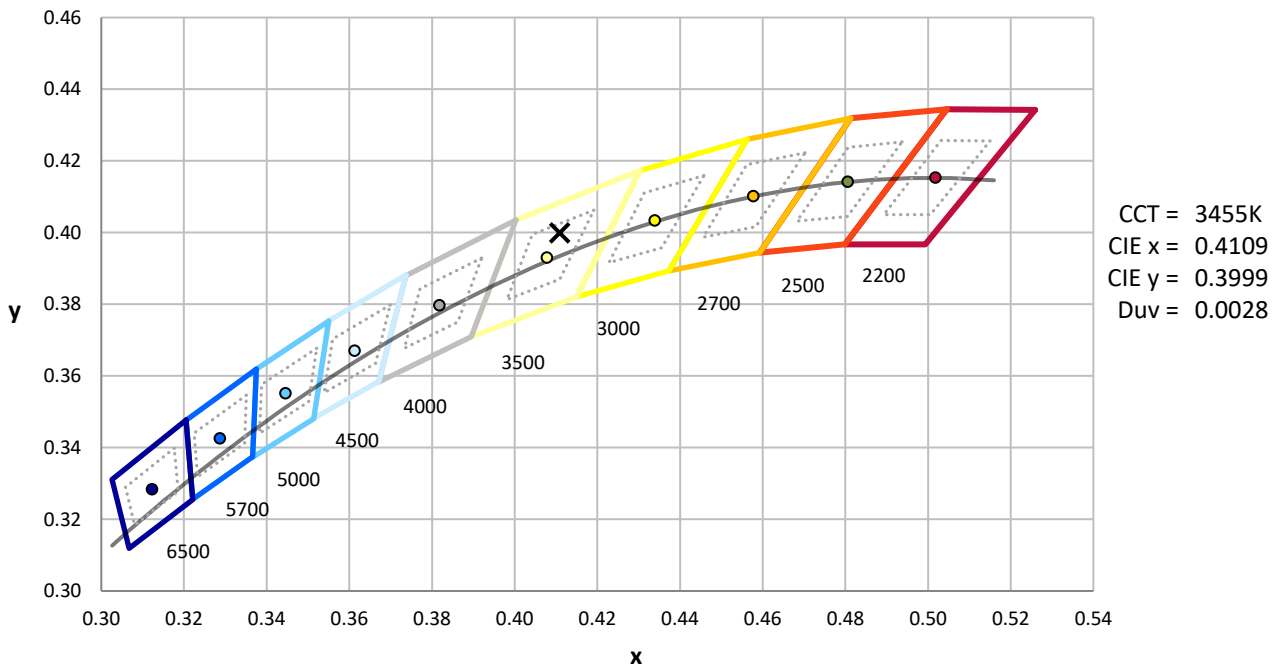
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-15

CIE 1931 Chromaticity Diagram



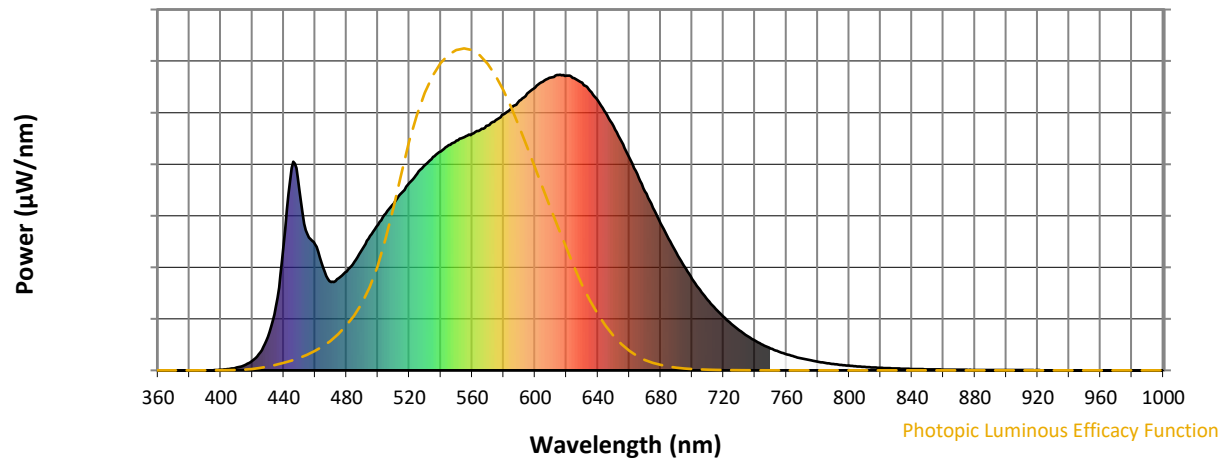
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-15

Photopic Flux vs. Wavelength

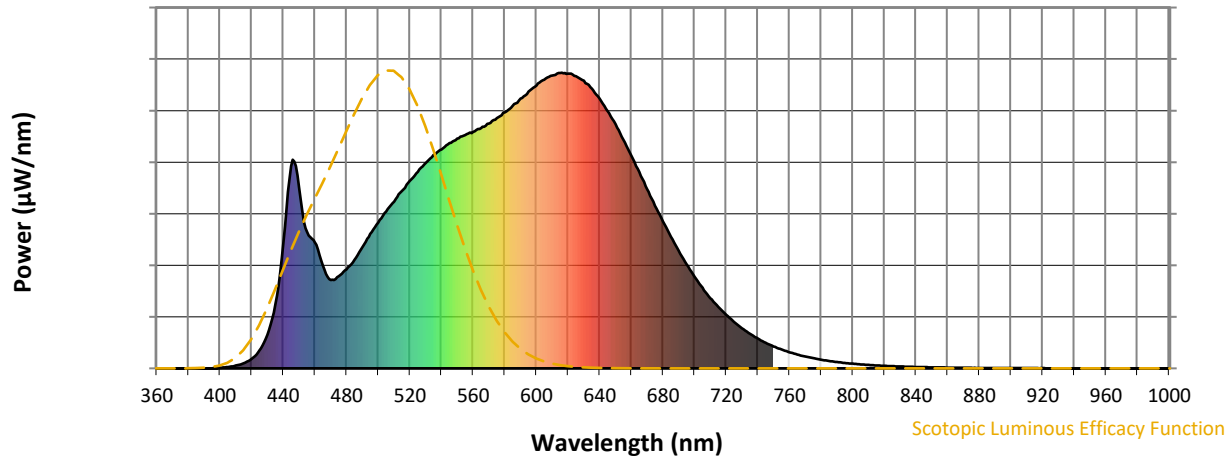


Photopic Lumens: NR

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	410	NR	620	997	NR	750	74	NR	880	1	NR
365	0	NR	495	454	NR	625	988	NR	755	64	NR	885	1	NR
370	0	NR	500	493	NR	630	973	NR	760	54	NR	890	1	NR
375	0	NR	505	530	NR	635	946	NR	765	47	NR	895	1	NR
380	0	NR	510	564	NR	640	913	NR	770	40	NR	900	1	NR
385	0	NR	515	599	NR	645	870	NR	775	34	NR	905	1	NR
390	0	NR	520	634	NR	650	826	NR	780	29	NR	910	1	NR
395	0	NR	525	664	NR	655	774	NR	785	25	NR	915	1	NR
400	2	NR	530	695	NR	660	720	NR	790	21	NR	920	1	NR
405	4	NR	535	722	NR	665	664	NR	795	18	NR	925	1	NR
410	9	NR	540	741	NR	670	605	NR	800	16	NR	930	0	NR
415	17	NR	545	762	NR	675	550	NR	805	13	NR	935	0	NR
420	32	NR	550	777	NR	680	497	NR	810	12	NR	940	0	NR
425	61	NR	555	789	NR	685	445	NR	815	10	NR	945	0	NR
430	114	NR	560	800	NR	690	398	NR	820	9	NR	950	0	NR
435	218	NR	565	813	NR	695	352	NR	825	7	NR	955	0	NR
440	427	NR	570	828	NR	700	309	NR	830	6	NR	960	0	NR
445	684	NR	575	846	NR	705	273	NR	835	5	NR	965	0	NR
450	611	NR	580	866	NR	710	237	NR	840	5	NR	970	0	NR
455	461	NR	585	888	NR	715	208	NR	845	4	NR	975	0	NR
460	427	NR	590	913	NR	720	181	NR	850	4	NR	980	0	NR
465	349	NR	595	936	NR	725	157	NR	855	3	NR	985	0	NR
470	298	NR	600	957	NR	730	136	NR	860	3	NR	990	1	NR
475	312	NR	605	976	NR	735	117	NR	865	2	NR	995	0	NR
480	335	NR	610	990	NR	740	100	NR	870	2	NR	1000	0	NR
485	367	NR	615	999	NR	745	86	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-15

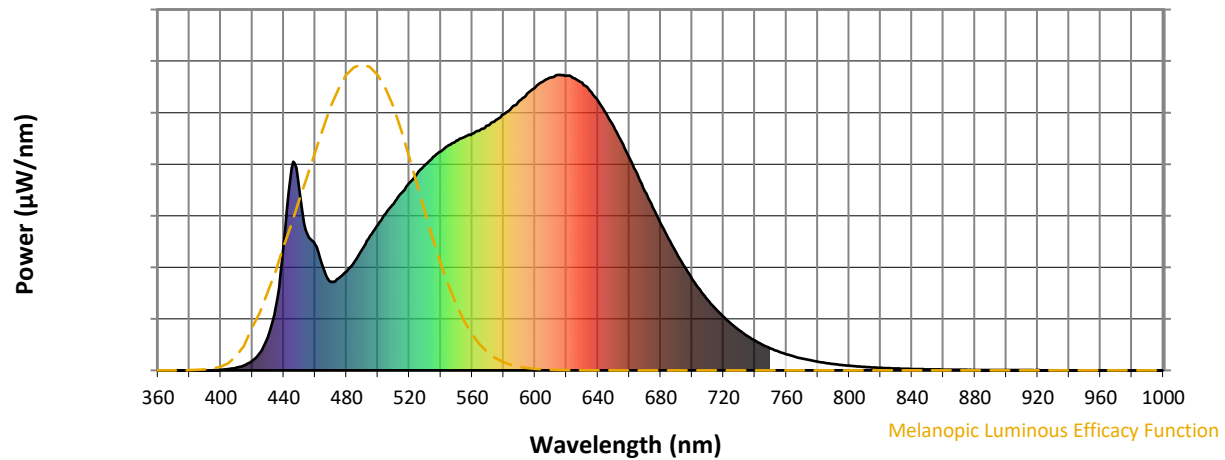
Scotopic Flux vs. Wavelength


Scotopic Lumens: NR
S/P: 1.58

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	410	NR	620	997	NR	750	74	NR	880	1	NR
365	0	NR	495	454	NR	625	988	NR	755	64	NR	885	1	NR
370	0	NR	500	493	NR	630	973	NR	760	54	NR	890	1	NR
375	0	NR	505	530	NR	635	946	NR	765	47	NR	895	1	NR
380	0	NR	510	564	NR	640	913	NR	770	40	NR	900	1	NR
385	0	NR	515	599	NR	645	870	NR	775	34	NR	905	1	NR
390	0	NR	520	634	NR	650	826	NR	780	29	NR	910	1	NR
395	0	NR	525	664	NR	655	774	NR	785	25	NR	915	1	NR
400	2	NR	530	695	NR	660	720	NR	790	21	NR	920	1	NR
405	4	NR	535	722	NR	665	664	NR	795	18	NR	925	1	NR
410	9	NR	540	741	NR	670	605	NR	800	16	NR	930	0	NR
415	17	NR	545	762	NR	675	550	NR	805	13	NR	935	0	NR
420	32	NR	550	777	NR	680	497	NR	810	12	NR	940	0	NR
425	61	NR	555	789	NR	685	445	NR	815	10	NR	945	0	NR
430	114	NR	560	800	NR	690	398	NR	820	9	NR	950	0	NR
435	218	NR	565	813	NR	695	352	NR	825	7	NR	955	0	NR
440	427	NR	570	828	NR	700	309	NR	830	6	NR	960	0	NR
445	684	NR	575	846	NR	705	273	NR	835	5	NR	965	0	NR
450	611	NR	580	866	NR	710	237	NR	840	5	NR	970	0	NR
455	461	NR	585	888	NR	715	208	NR	845	4	NR	975	0	NR
460	427	NR	590	913	NR	720	181	NR	850	4	NR	980	0	NR
465	349	NR	595	936	NR	725	157	NR	855	3	NR	985	0	NR
470	298	NR	600	957	NR	730	136	NR	860	3	NR	990	1	NR
475	312	NR	605	976	NR	735	117	NR	865	2	NR	995	0	NR
480	335	NR	610	990	NR	740	100	NR	870	2	NR	1000	0	NR
485	367	NR	615	999	NR	745	86	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-15

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.14

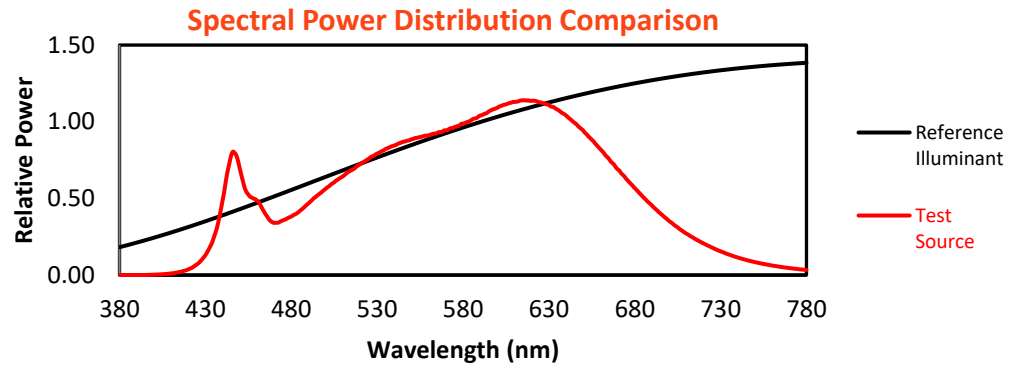
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	410	NR	620	997	NR	750	74	NR	880	1	NR
365	0	NR	495	454	NR	625	988	NR	755	64	NR	885	1	NR
370	0	NR	500	493	NR	630	973	NR	760	54	NR	890	1	NR
375	0	NR	505	530	NR	635	946	NR	765	47	NR	895	1	NR
380	0	NR	510	564	NR	640	913	NR	770	40	NR	900	1	NR
385	0	NR	515	599	NR	645	870	NR	775	34	NR	905	1	NR
390	0	NR	520	634	NR	650	826	NR	780	29	NR	910	1	NR
395	0	NR	525	664	NR	655	774	NR	785	25	NR	915	1	NR
400	2	NR	530	695	NR	660	720	NR	790	21	NR	920	1	NR
405	4	NR	535	722	NR	665	664	NR	795	18	NR	925	1	NR
410	9	NR	540	741	NR	670	605	NR	800	16	NR	930	0	NR
415	17	NR	545	762	NR	675	550	NR	805	13	NR	935	0	NR
420	32	NR	550	777	NR	680	497	NR	810	12	NR	940	0	NR
425	61	NR	555	789	NR	685	445	NR	815	10	NR	945	0	NR
430	114	NR	560	800	NR	690	398	NR	820	9	NR	950	0	NR
435	218	NR	565	813	NR	695	352	NR	825	7	NR	955	0	NR
440	427	NR	570	828	NR	700	309	NR	830	6	NR	960	0	NR
445	684	NR	575	846	NR	705	273	NR	835	5	NR	965	0	NR
450	611	NR	580	866	NR	710	237	NR	840	5	NR	970	0	NR
455	461	NR	585	888	NR	715	208	NR	845	4	NR	975	0	NR
460	427	NR	590	913	NR	720	181	NR	850	4	NR	980	0	NR
465	349	NR	595	936	NR	725	157	NR	855	3	NR	985	0	NR
470	298	NR	600	957	NR	730	136	NR	860	3	NR	990	1	NR
475	312	NR	605	976	NR	735	117	NR	865	2	NR	995	0	NR
480	335	NR	610	990	NR	740	100	NR	870	2	NR	1000	0	NR
485	367	NR	615	999	NR	745	86	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-15

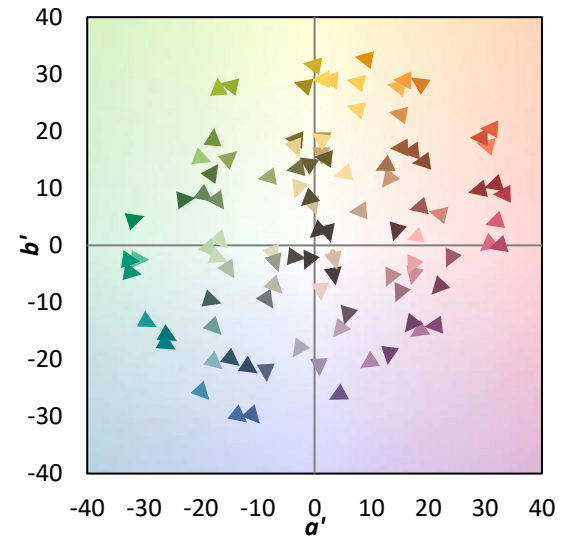
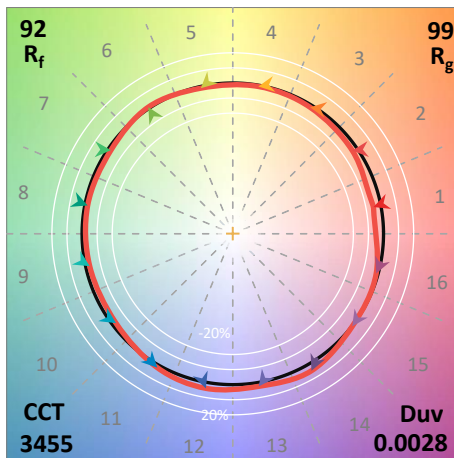
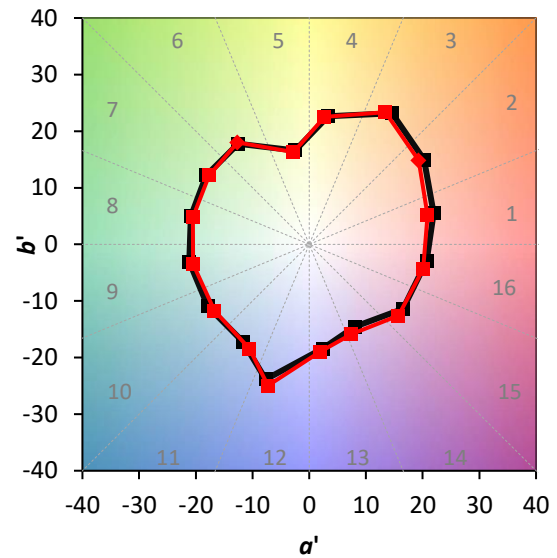
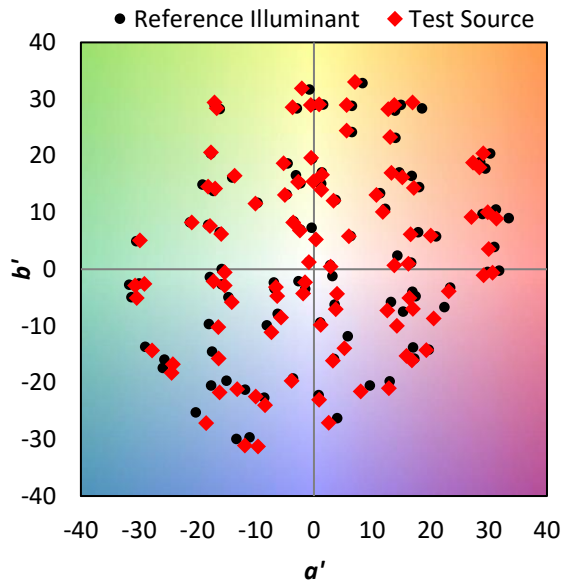
TM-30-18

Summary

$R_f = 92.3$
 $R_g = 98.5$
 $CIE R_a = 92.2$
 $R_9 = 59.8$

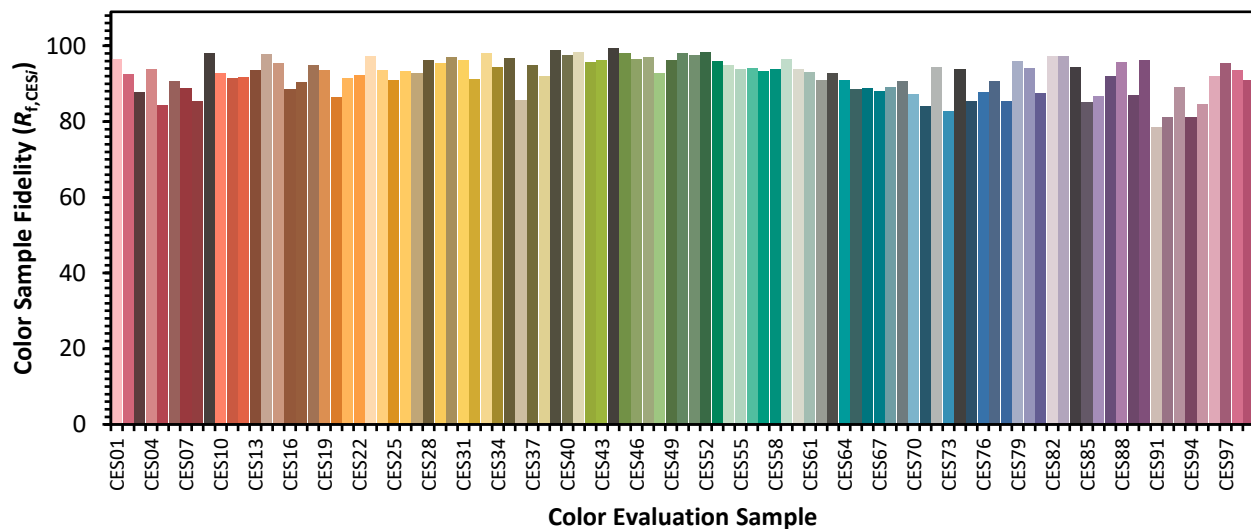


Color Vector Graphics

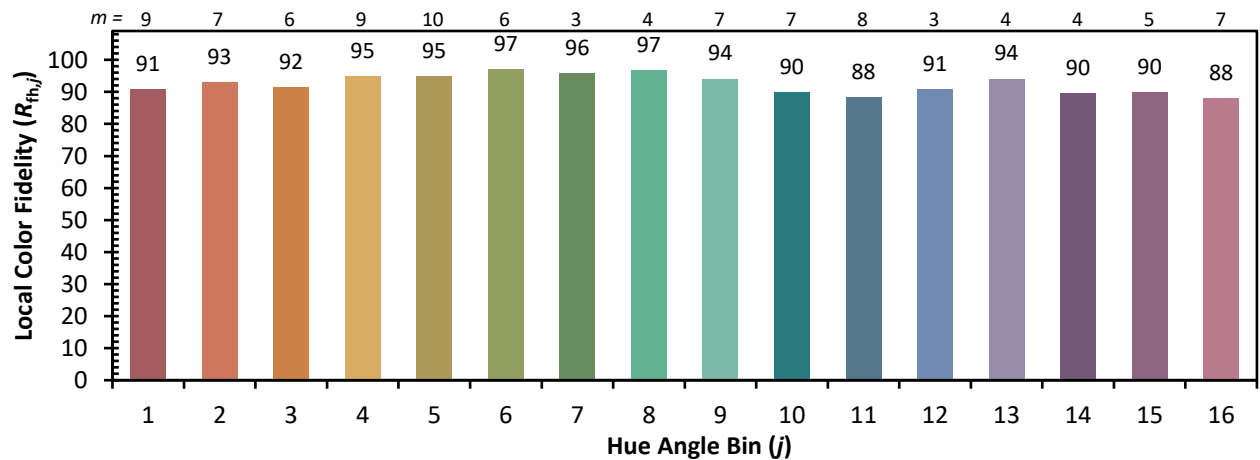
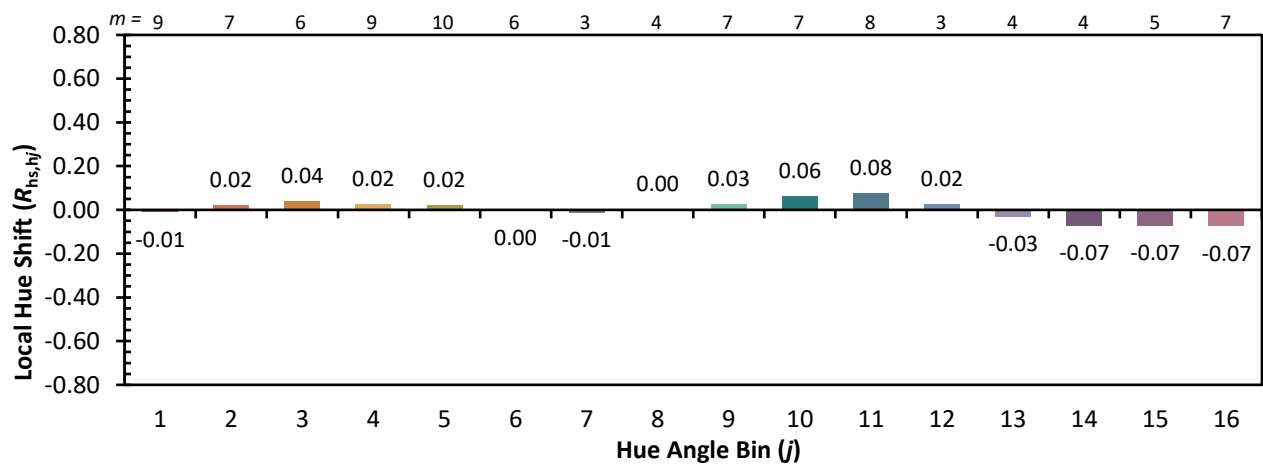
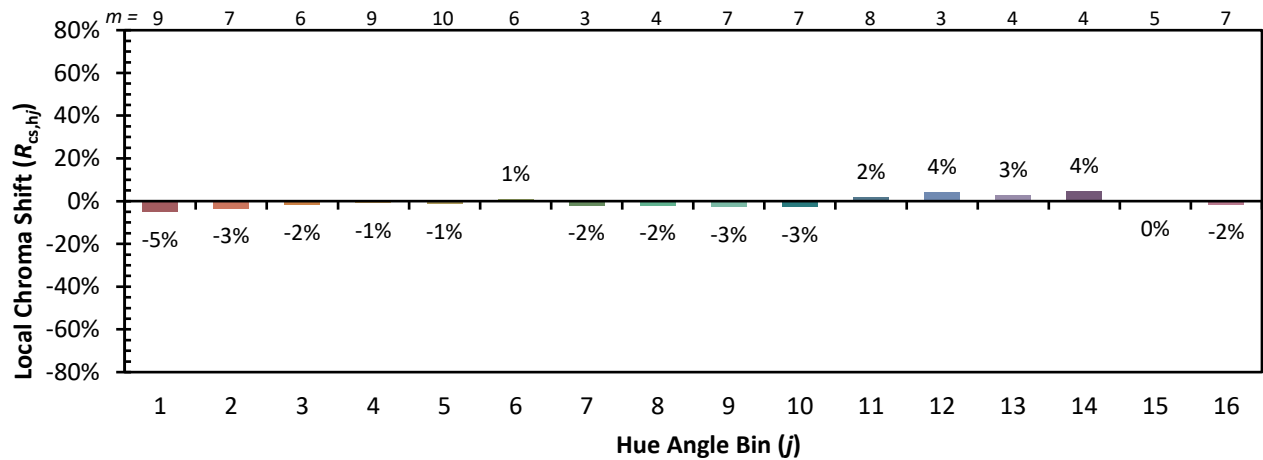


Individual Sample Fidelity Index ($R_{f,i}$)

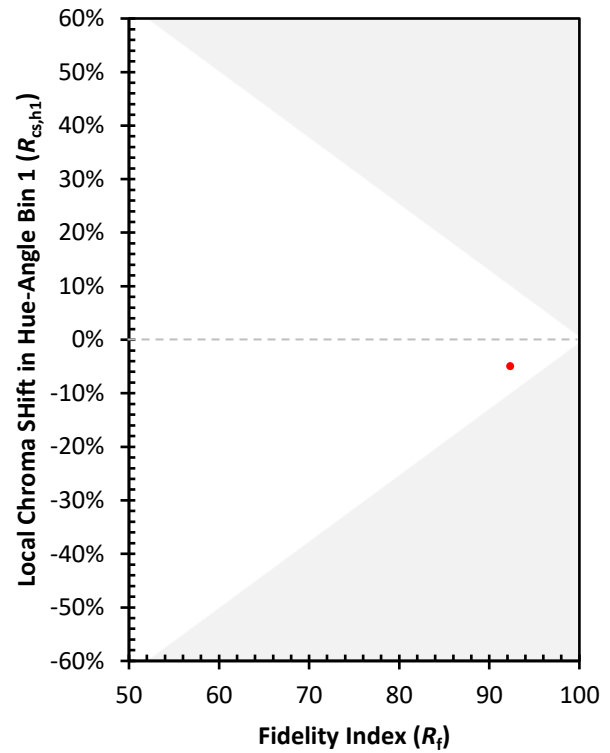
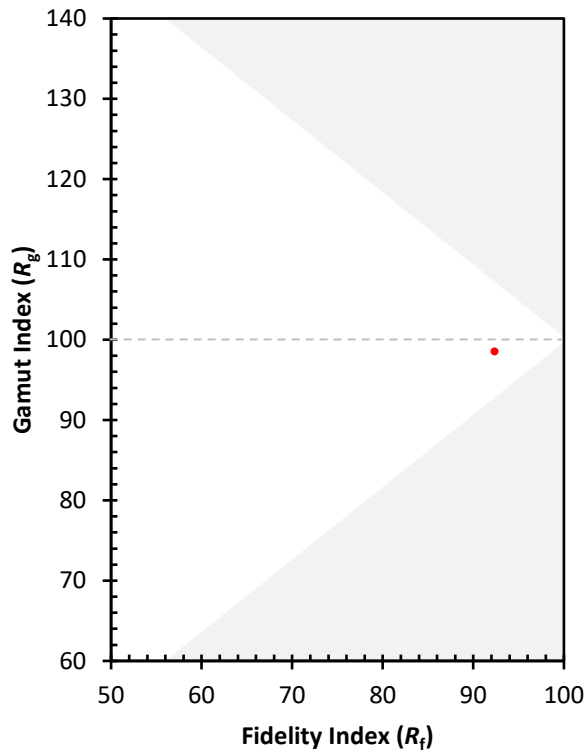
CES01 = 86	CES26 = 93	CES51 = 97	CES76 = 88
CES02 = 62	CES27 = 93	CES52 = 98	CES77 = 91
CES03 = 31	CES28 = 96	CES53 = 96	CES78 = 85
CES04 = 70	CES29 = 95	CES54 = 95	CES79 = 96
CES05 = 50	CES30 = 97	CES55 = 94	CES80 = 94
CES06 = 51	CES31 = 96	CES56 = 94	CES81 = 87
CES07 = 42	CES32 = 91	CES57 = 93	CES82 = 97
CES08 = 41	CES33 = 98	CES58 = 94	CES83 = 97
CES09 = 29	CES34 = 94	CES59 = 96	CES84 = 94
CES10 = 75	CES35 = 97	CES60 = 94	CES85 = 85
CES11 = 58	CES36 = 86	CES61 = 93	CES86 = 87
CES12 = 64	CES37 = 95	CES62 = 91	CES87 = 92
CES13 = 43	CES38 = 92	CES63 = 93	CES88 = 96
CES14 = 74	CES39 = 99	CES64 = 91	CES89 = 87
CES15 = 71	CES40 = 98	CES65 = 89	CES90 = 96
CES16 = 47	CES41 = 98	CES66 = 89	CES91 = 78
CES17 = 49	CES42 = 96	CES67 = 88	CES92 = 81
CES18 = 56	CES43 = 96	CES68 = 89	CES93 = 89
CES19 = 71	CES44 = 99	CES69 = 91	CES94 = 81
CES20 = 66	CES45 = 98	CES70 = 87	CES95 = 85
CES21 = 86	CES46 = 97	CES71 = 84	CES96 = 92
CES22 = 78	CES47 = 97	CES72 = 95	CES97 = 95
CES23 = 91	CES48 = 93	CES73 = 83	CES98 = 94
CES24 = 90	CES49 = 96	CES74 = 94	CES99 = 91
CES25 = 71	CES50 = 98	CES75 = 85	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)