

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: P1049518

Luminaire Tested: **GALN-SA6B-722-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049518
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-722-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 6xLight Square PACKAGE
70CRI 2200K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

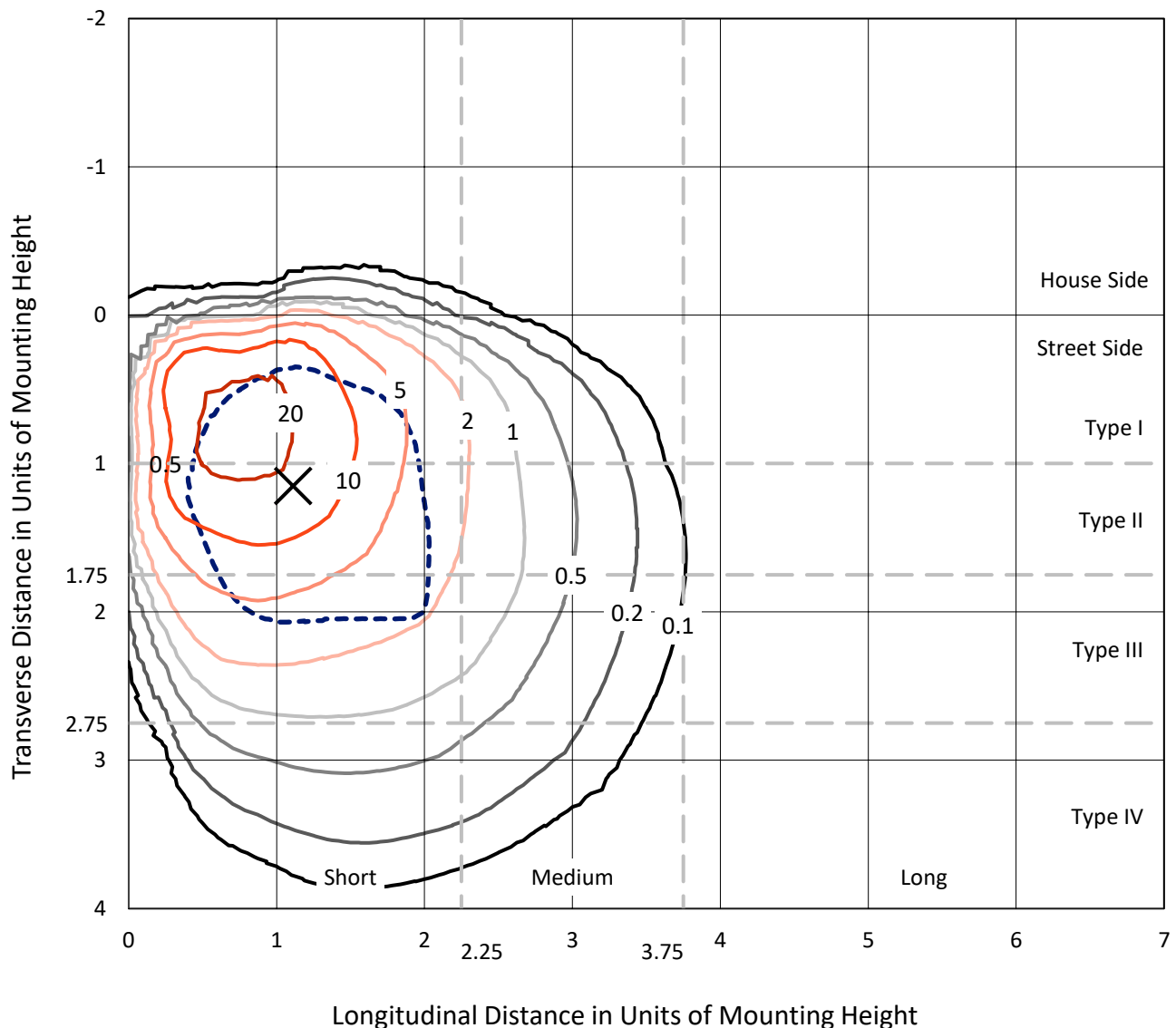
Lumens per Lamp: N/A
Luminaire Lumens: 17805.5 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 213.8
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

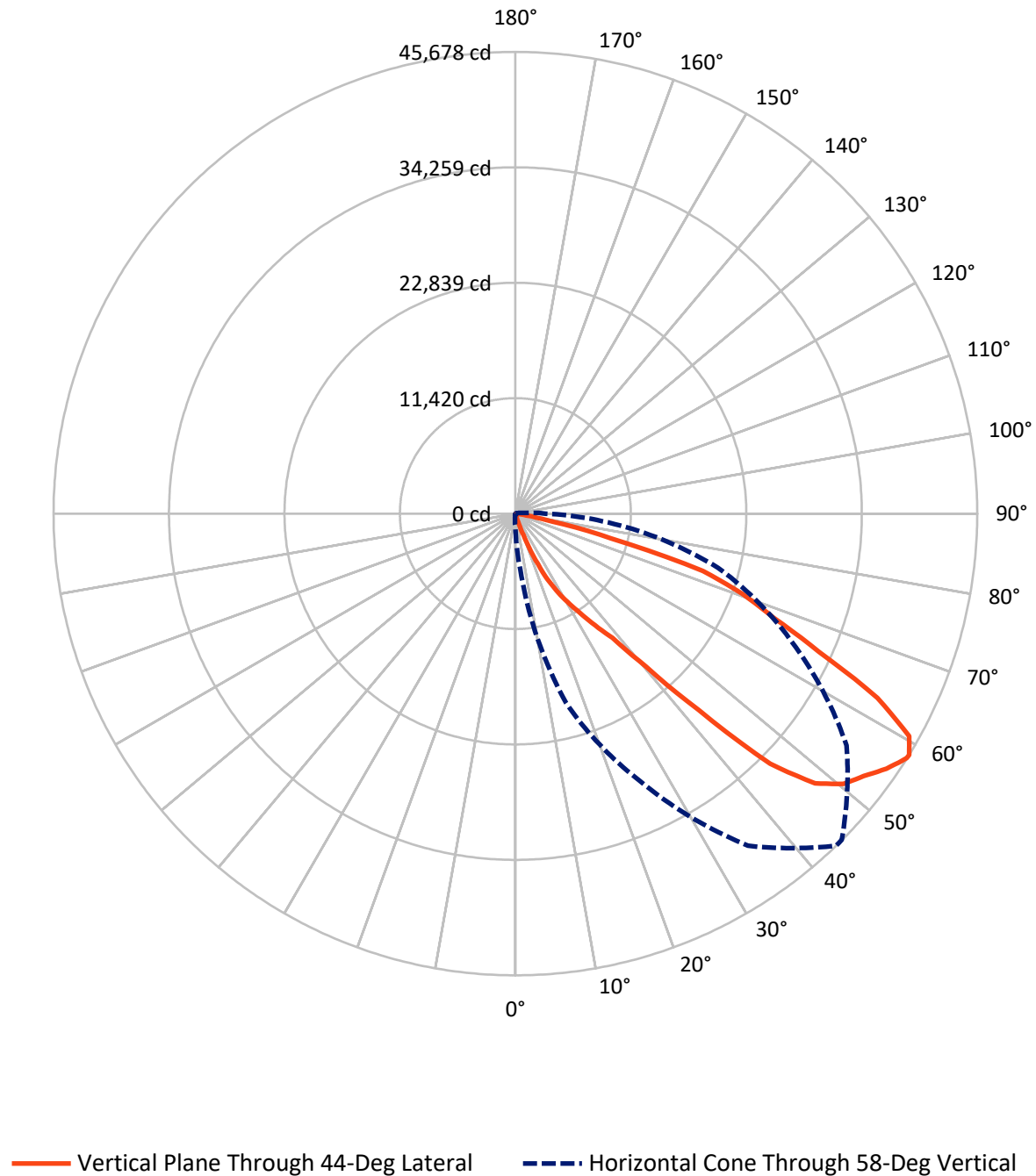
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 31 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	121.6	0.0	121.6
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	17684.0	0.0	17684.0
	% Fixture	99.3	0.0	99.3
Total	Lumens	17805.5	0.0	17805.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.0	0.0
10°-20°	39.0	0.2
20°-30°	421.8	2.4
30°-40°	1247.5	7.0
40°-50°	3718.1	20.9
50°-60°	5899.7	33.1
60°-70°	4921.0	27.6
70°-80°	1517.7	8.5
80°-90°	33.7	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°	17805.5	100.0
0°-180°	17805.5	100.0

Coefficient of Utilization



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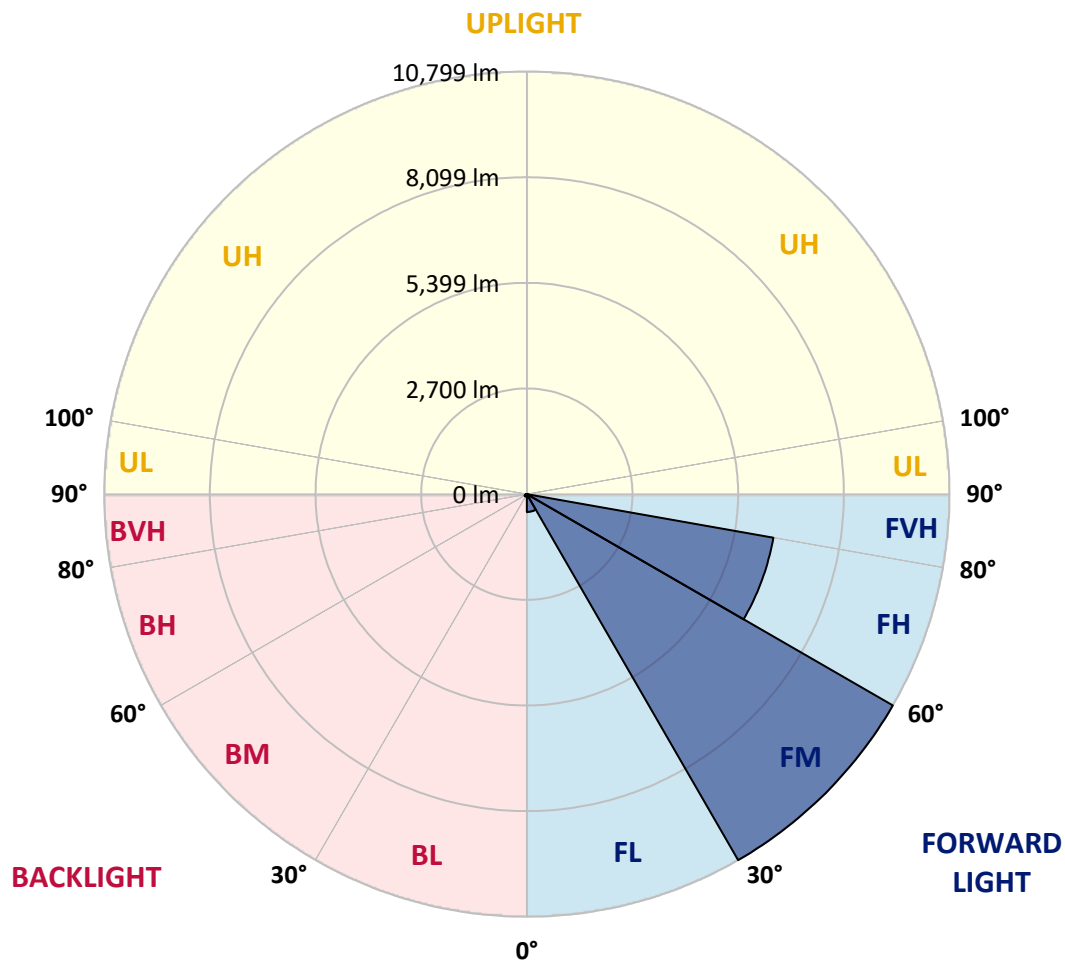
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	455.9	2.6			
FM	(30°-60°)	10798.7	60.6			
FH	(60°-80°)	6397.3	35.9			G3/7500
FVH	(80°-90°)	32.1	0.2			G1/100
BL	(0°-30°)	11.9	0.1	B0/110		
BM	(30°-60°)	66.5	0.4	B0/220		
BH	(60°-80°)	41.5	0.2	B0/110		G0/110
BVH	(80°-90°)	1.6	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
2.5°	100.9	100.9	96.8	91.5	86.1	80.7	79.4	76.7	75.3	74.0	72.6
5°	104.9	104.9	103.6	99.5	94.2	90.1	90.1	86.1	83.4	80.7	78.0
7.5°	107.6	108.9	111.6	110.3	107.6	103.6	103.6	100.9	96.8	90.1	86.1
10°	111.6	115.7	121.1	123.7	125.1	125.1	123.7	122.4	115.7	106.3	95.5
12.5°	115.7	123.7	137.2	150.6	158.7	169.5	168.1	165.4	148.0	127.8	108.9
15°	123.7	135.9	164.1	203.1	263.6	301.3	316.1	302.6	244.8	172.2	126.4
17.5°	133.2	153.3	238.1	425.0	696.7	825.9	903.9	840.7	556.9	326.8	158.7
20°	142.6	187.0	442.5	1101.6	1807.8	2230.1	2347.1	2164.2	1389.4	622.8	235.4
22.5°	158.7	262.3	897.2	2277.2	3895.3	4528.8	4648.5	4063.4	2624.2	1229.4	353.7
25°	192.3	380.7	1546.8	3711.0	5813.3	6882.7	6832.9	6066.2	4257.1	1963.8	538.0
27.5°	240.8	554.2	2339.1	5272.6	7650.7	8593.6	8706.6	7758.3	5674.8	2887.8	764.0
30°	310.7	768.0	3189.1	6523.5	9123.5	10143.1	10161.9	9181.4	6943.2	3698.9	1041.1
32.5°	378.0	969.8	3932.9	7732.7	10574.8	11692.6	11776.0	10569.5	7890.1	4543.6	1281.8
35°	429.1	1101.6	4686.2	8795.3	12038.3	13578.3	13573.0	12140.5	9011.9	5298.2	1615.4
37.5°	433.1	1233.4	5368.1	9882.1	13891.7	15616.1	15786.9	14207.8	10367.7	6231.6	2024.3
40°	423.7	1381.4	6231.6	11576.9	17231.5	19877.3	20027.9	18037.2	13087.4	7829.6	2663.2
42.5°	434.5	1638.3	7633.2	14706.9	22777.2	26577.0	26867.5	24774.6	18087.0	11090.0	3802.5
45°	490.9	2121.2	10569.5	19943.2	30682.1	35314.5	35217.6	32203.4	23904.4	16053.3	6056.8
47.5°	677.9	3303.5	14922.1	25039.6	35734.1	39859.4	39942.8	36258.7	27299.3	19869.2	9092.6
50°	1042.4	5054.7	18579.3	27733.7	37906.4	42045.1	41967.1	37710.0	28589.2	21748.2	10952.8
52.5°	1355.8	6321.8	20413.9	28679.3	38184.8	43125.2	43119.8	38092.0	28789.6	21909.6	11185.5
55°	1433.8	6417.3	20428.7	28730.4	38808.9	44538.9	44716.4	39032.2	29049.2	21204.8	10309.9
57.5°	1402.9	5681.5	19576.0	29026.3	39919.9	45632.4	45641.8	39942.8	29708.3	20773.1	8859.9
58°	1376.0	5565.8	19403.8	29194.5	40110.9	45678.1	45655.3	39984.5	30245.0	20756.9	8632.6
60°	1225.3	4832.8	18732.6	29623.5	39827.1	44739.3	44525.4	39073.9	30165.6	20591.5	7487.9
62.5°	963.1	3770.2	18072.2	29127.2	36784.6	40194.3	40283.1	34593.5	27499.7	19627.1	6138.8
65°	766.7	2809.8	16694.8	25549.4	30290.7	33007.7	33338.6	28130.5	22953.4	16619.5	4526.1
67.5°	610.7	2031.0	14004.7	20341.3	23968.9	27548.1	27788.9	23617.9	17783.0	12733.7	3216.0
70°	496.3	1373.3	9666.9	14876.3	19769.6	23794.1	23808.9	19620.3	13273.0	8343.4	2017.6
72.5°	439.8	951.0	5611.6	10849.2	16030.4	19389.0	18997.6	15921.4	10200.9	4941.7	1202.5
75°	380.7	630.8	2752.0	6632.5	9719.4	9785.3	9934.6	7385.7	5099.1	2349.8	721.0
77.5°	313.4	447.9	1084.1	1811.8	2914.7	3731.2	3869.7	2932.2	1696.1	578.4	384.7
80°	215.2	212.5	291.9	555.5	833.9	1045.1	975.2	754.6	443.9	221.9	137.2
82.5°	92.8	100.9	131.8	158.7	129.1	125.1	119.7	76.7	59.2	45.7	28.2
85°	29.6	26.9	28.2	28.2	22.9	17.5	17.5	8.1	0.0	0.0	0.0
87.5°	14.8	12.1	12.1	10.8	6.7	2.7	1.3	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°	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
2.5°	71.3	71.3	68.6	65.9	64.6	61.9	60.5	59.2	57.8	56.5	55.1
5°	75.3	74.0	69.9	65.9	61.9	57.8	55.1	52.5	49.8	48.4	47.1
7.5°	82.0	79.4	71.3	64.6	59.2	53.8	51.1	47.1	44.4	40.4	39.0
10°	90.1	84.7	74.0	65.9	57.8	51.1	47.1	43.0	39.0	33.6	32.3
12.5°	100.9	91.5	78.0	64.6	55.1	47.1	43.0	37.7	33.6	29.6	26.9
15°	110.3	98.2	79.4	64.6	52.5	43.0	37.7	32.3	28.2	22.9	20.2
17.5°	123.7	103.6	78.0	60.5	48.4	37.7	32.3	28.2	21.5	13.5	10.8
20°	146.6	107.6	75.3	56.5	41.7	30.9	24.2	18.8	9.4	2.7	0.0
22.5°	182.9	118.4	72.6	51.1	36.3	24.2	16.1	6.7	0.0	0.0	0.0
25°	252.9	137.2	72.6	48.4	32.3	17.5	5.4	0.0	0.0	0.0	0.0
27.5°	336.3	162.8	72.6	41.7	25.6	9.4	0.0	0.0	0.0	0.0	0.0
30°	421.0	191.0	72.6	36.3	20.2	1.3	0.0	0.0	0.0	0.0	0.0
32.5°	501.7	215.2	74.0	30.9	13.5	0.0	0.0	0.0	0.0	0.0	0.0
35°	583.8	219.2	72.6	26.9	8.1	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	688.7	211.2	68.6	24.2	4.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	847.4	215.2	64.6	22.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1140.6	232.7	59.2	22.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1971.9	312.1	53.8	24.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3261.8	560.9	52.5	24.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4163.0	706.2	55.1	25.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4156.2	786.9	57.8	26.9	5.4	0.0	0.0	0.0	0.0	0.0	0.0
55°	3694.9	801.7	61.9	29.6	17.5	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3088.3	731.7	71.3	36.3	32.3	0.0	0.0	0.0	0.0	0.0	0.0
58°	2980.6	699.4	74.0	37.7	35.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	2442.6	570.3	94.2	47.1	47.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1686.7	497.7	107.6	60.5	48.4	0.0	0.0	0.0	0.0	0.0	0.0
65°	1193.1	449.2	117.0	64.6	39.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	891.8	414.3	129.1	65.9	20.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	683.3	388.7	158.7	69.9	5.4	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	556.9	359.1	192.3	72.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	461.4	324.2	185.6	79.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	306.7	251.5	169.5	79.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	107.6	99.5	131.8	69.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.1	13.5	18.8	24.2	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°	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
2.5°	55.1	55.1	53.8	55.1	55.1	57.8	64.6	74.0	84.7	88.8	92.8
5°	45.7	44.4	43.0	43.0	43.0	47.1	52.5	63.2	75.3	80.7	83.4
7.5°	37.7	36.3	35.0	33.6	33.6	36.3	43.0	55.1	67.3	72.6	76.7
10°	30.9	28.2	26.9	25.6	25.6	28.2	35.0	47.1	60.5	65.9	71.3
12.5°	25.6	21.5	18.8	17.5	16.1	20.2	26.9	37.7	52.5	59.2	64.6
15°	17.5	13.5	9.4	8.1	6.7	10.8	17.5	29.6	44.4	52.5	57.8
17.5°	9.4	4.0	1.3	0.0	0.0	2.7	8.1	21.5	36.3	43.0	49.8
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	26.9	33.6	40.4
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	16.1	22.9	29.6
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	12.1	17.5
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	8.1
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	1.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	8.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	10.8	14.8
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°	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
2.5°	95.5	94.2	91.5	88.8	88.8	88.8	92.8	96.8	100.9	100.9
5°	88.8	88.8	87.4	84.7	84.7	86.1	91.5	98.2	103.6	104.9
7.5°	82.0	84.7	82.0	80.7	82.0	83.4	88.8	96.8	104.9	107.6
10°	78.0	79.4	79.4	78.0	78.0	80.7	86.1	96.8	107.6	111.6
12.5°	72.6	75.3	74.0	74.0	74.0	76.7	83.4	95.5	110.3	115.7
15°	67.3	71.3	71.3	69.9	69.9	71.3	80.7	94.2	114.3	123.7
17.5°	61.9	65.9	67.3	64.6	64.6	67.3	76.7	94.2	117.0	133.2
20°	51.1	57.8	61.9	57.8	57.8	60.5	69.9	88.8	118.4	142.6
22.5°	40.4	47.1	52.5	51.1	51.1	52.5	64.6	84.7	119.7	158.7
25°	29.6	36.3	40.4	43.0	43.0	47.1	59.2	82.0	125.1	192.3
27.5°	17.5	25.6	30.9	33.6	35.0	40.4	55.1	79.4	134.5	240.8
30°	8.1	14.8	21.5	26.9	26.9	36.3	51.1	76.7	146.6	310.7
32.5°	0.0	6.7	10.8	18.8	20.2	29.6	47.1	74.0	164.1	378.0
35°	0.0	0.0	5.4	14.8	14.8	24.2	43.0	71.3	191.0	429.1
37.5°	0.0	0.0	0.0	10.8	12.1	21.5	41.7	69.9	196.4	433.1
40°	0.0	0.0	0.0	8.1	9.4	20.2	41.7	71.3	177.5	423.7
42.5°	0.0	0.0	0.0	5.4	6.7	20.2	41.7	74.0	160.1	434.5
45°	0.0	0.0	0.0	4.0	5.4	21.5	40.4	72.6	150.6	490.9
47.5°	0.0	0.0	0.0	5.4	8.1	21.5	39.0	71.3	152.0	677.9
50°	0.0	0.0	0.0	6.7	9.4	21.5	40.4	68.6	166.8	1042.4
52.5°	0.0	0.0	0.0	5.4	8.1	24.2	44.4	67.3	181.6	1355.8
55°	0.0	0.0	0.0	1.3	4.0	30.9	48.4	67.3	204.4	1433.8
57.5°	0.0	0.0	0.0	0.0	0.0	35.0	55.1	71.3	242.1	1402.9
58°	0.0	0.0	0.0	0.0	0.0	35.0	56.5	71.3	244.8	1376.0
60°	0.0	0.0	0.0	0.0	0.0	35.0	61.9	79.4	263.6	1225.3
62.5°	0.0	0.0	0.0	0.0	0.0	29.6	74.0	99.5	274.4	963.1
65°	0.0	0.0	0.0	0.0	0.0	24.2	87.4	108.9	282.5	766.7
67.5°	0.0	0.0	0.0	0.0	0.0	22.9	90.1	110.3	286.5	610.7
70°	0.0	0.0	0.0	0.0	0.0	24.2	88.8	118.4	299.9	496.3
72.5°	0.0	0.0	0.0	0.0	0.0	26.9	80.7	130.5	299.9	439.8
75°	0.0	0.0	0.0	0.0	0.0	28.2	75.3	146.6	273.0	380.7
77.5°	0.0	0.0	0.0	0.0	0.0	26.9	74.0	170.8	243.5	313.4
80°	2.7	4.0	4.0	2.7	2.7	22.9	72.6	173.5	207.1	215.2
82.5°	8.1	10.8	9.4	6.7	6.7	20.2	64.6	145.3	107.6	92.8
85°	14.8	17.5	17.5	14.8	14.8	18.8	40.4	52.5	36.3	29.6
87.5°	20.2	22.9	22.9	20.2	20.2	18.8	17.5	16.1	14.8	14.8
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

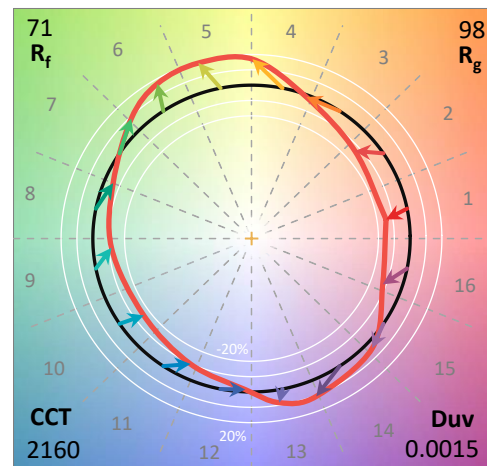
Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

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

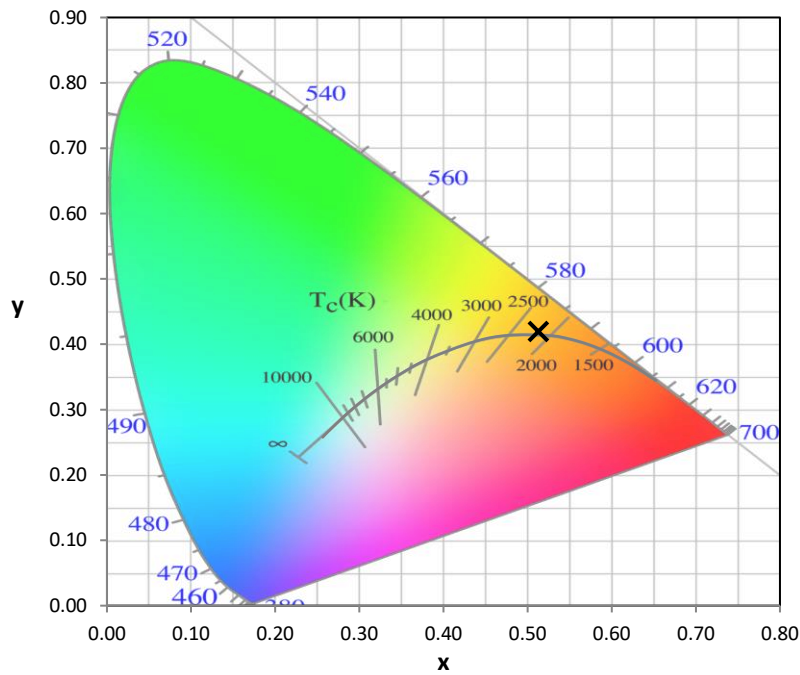
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-2

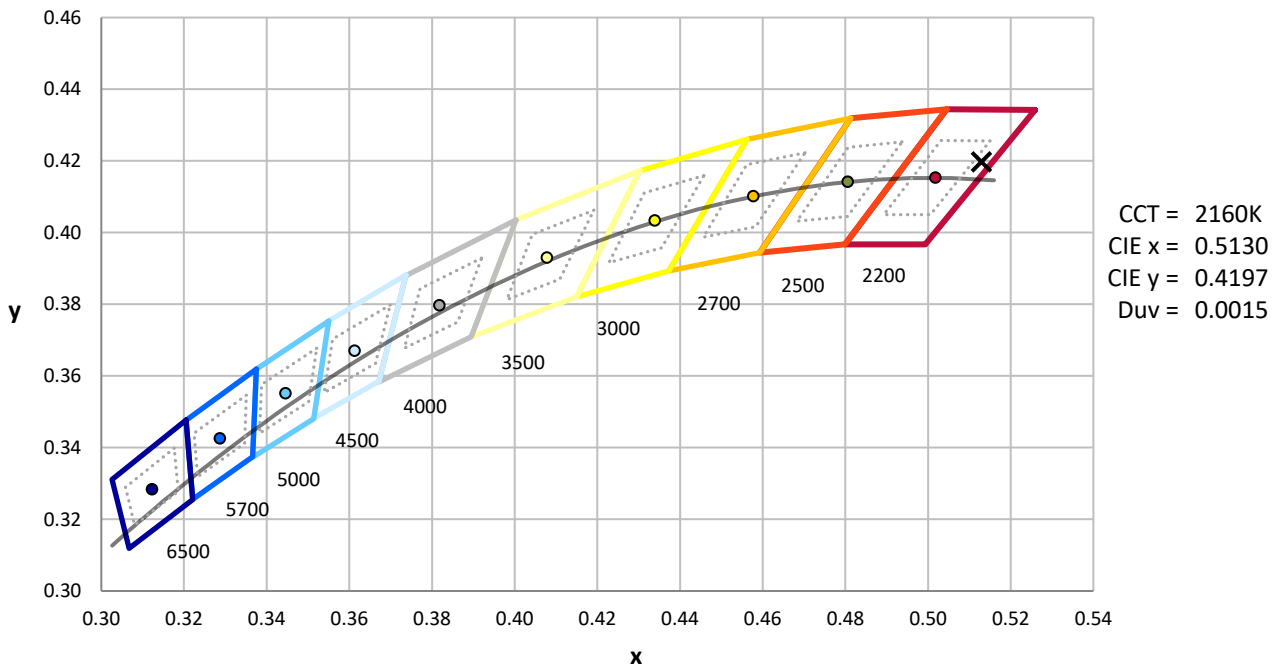
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



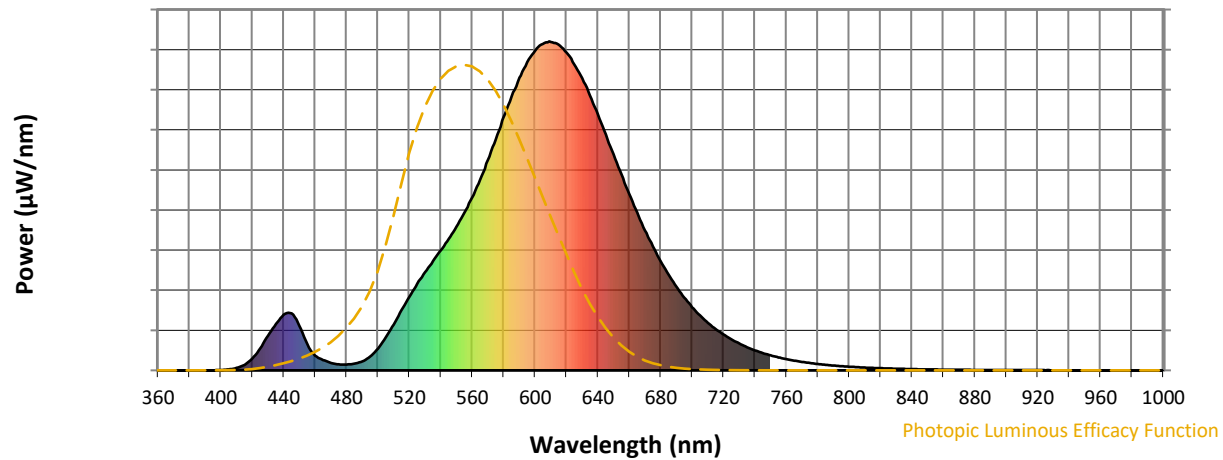
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-2

Photopic Flux vs. Wavelength

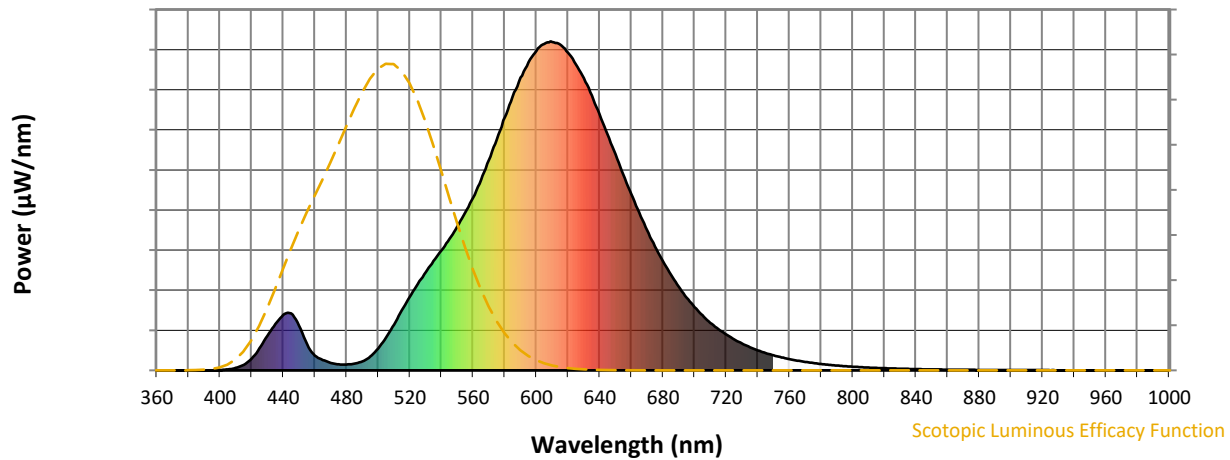


Photopic Lumens: NR

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



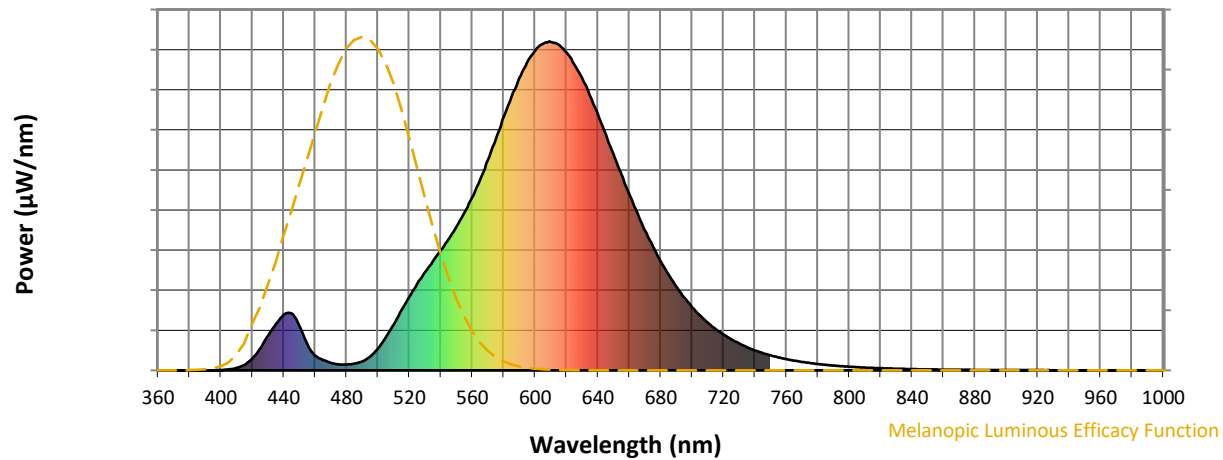
Scotopic Lumens: NR

S/P: 0.8

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.21

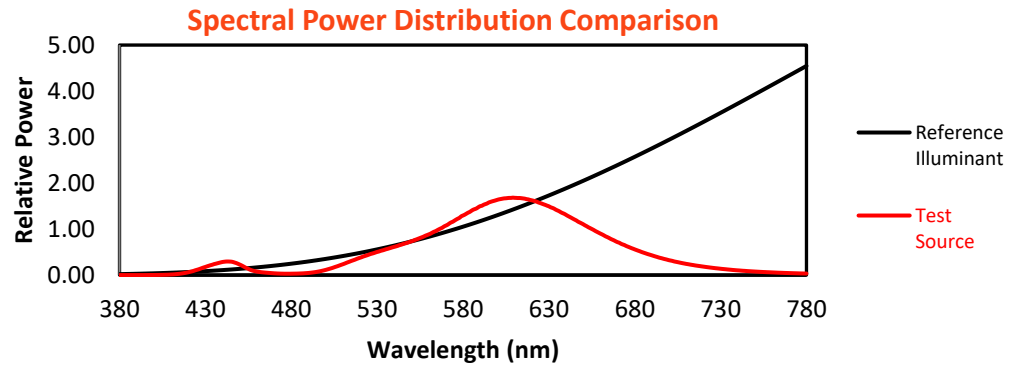
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	27	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

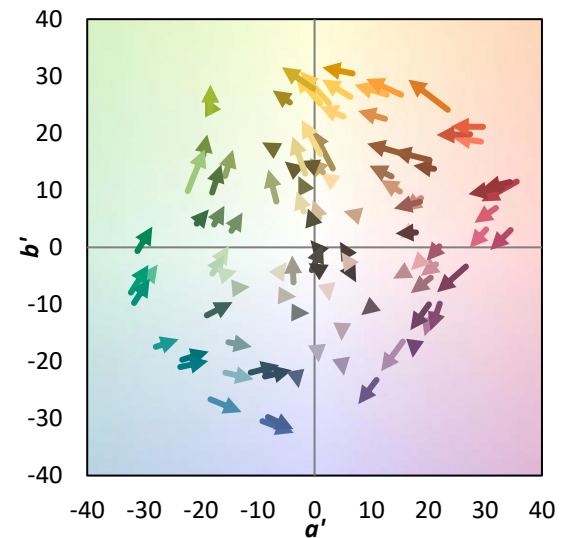
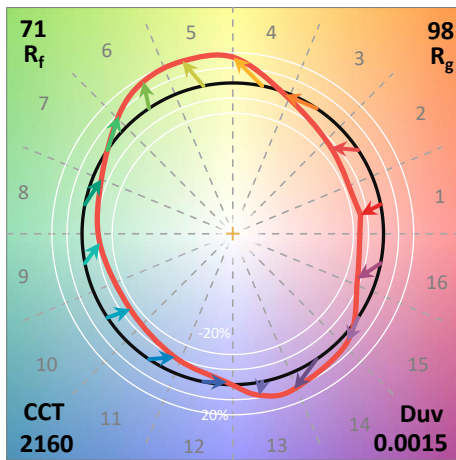
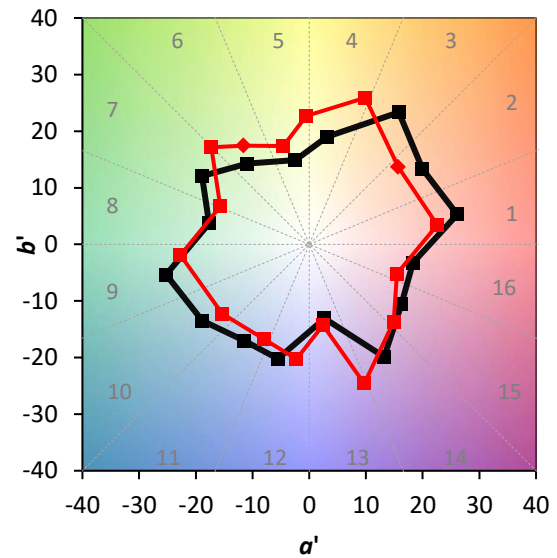
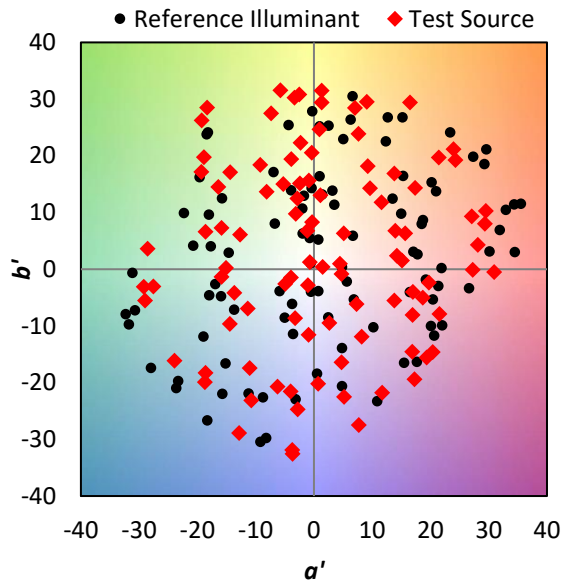
TM-30-18

Summary

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

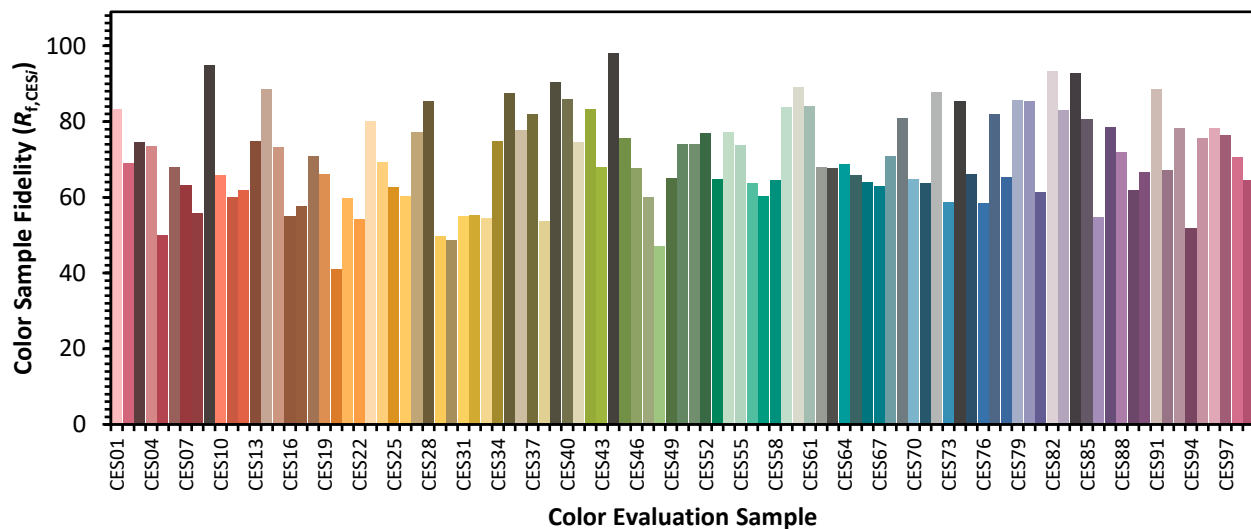


Color Vector Graphics

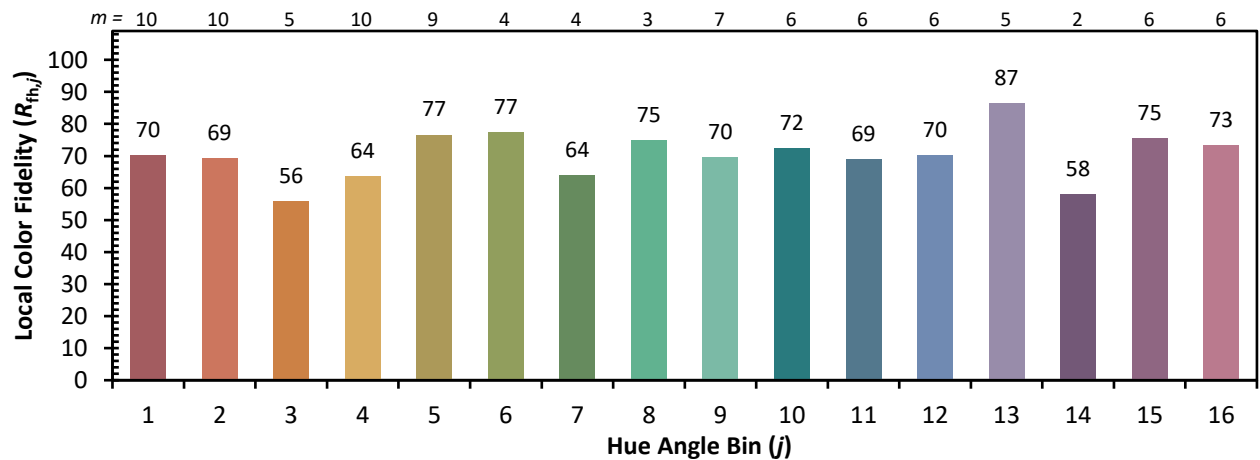
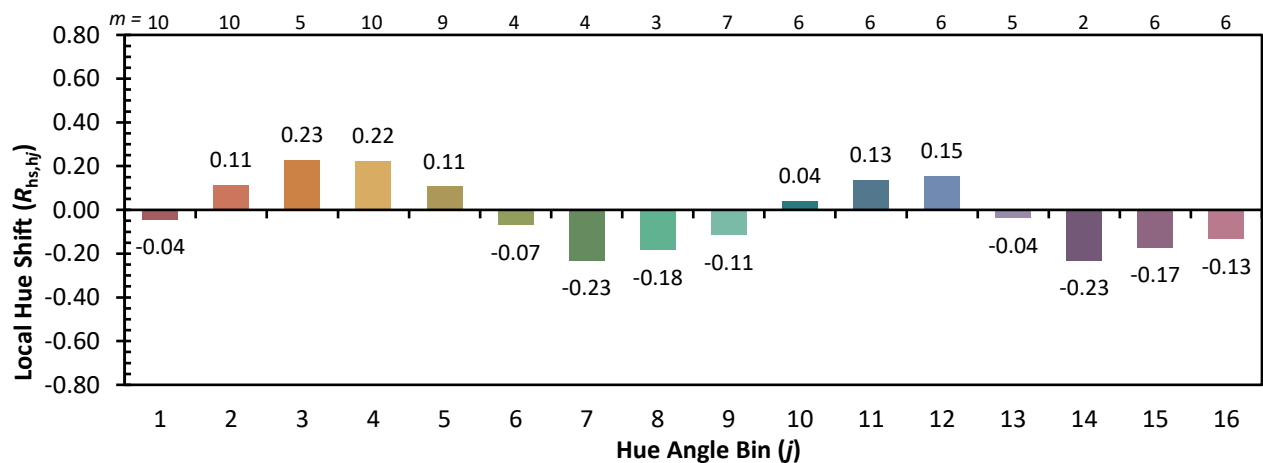
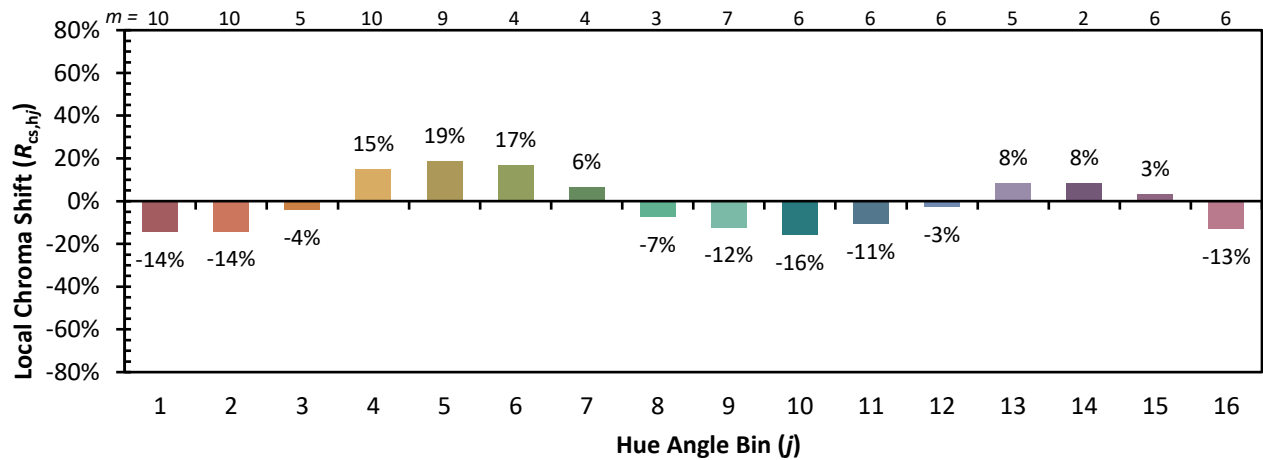


Individual Sample Fidelity Index ($R_{f,i}$)

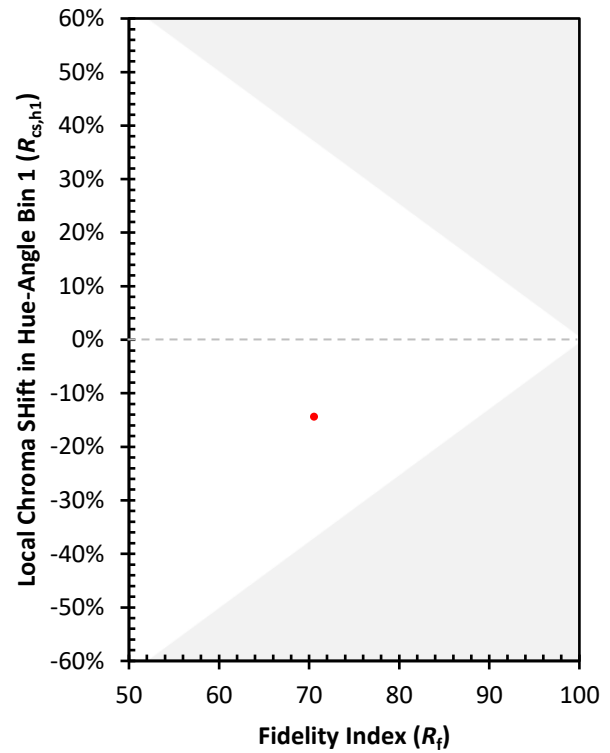
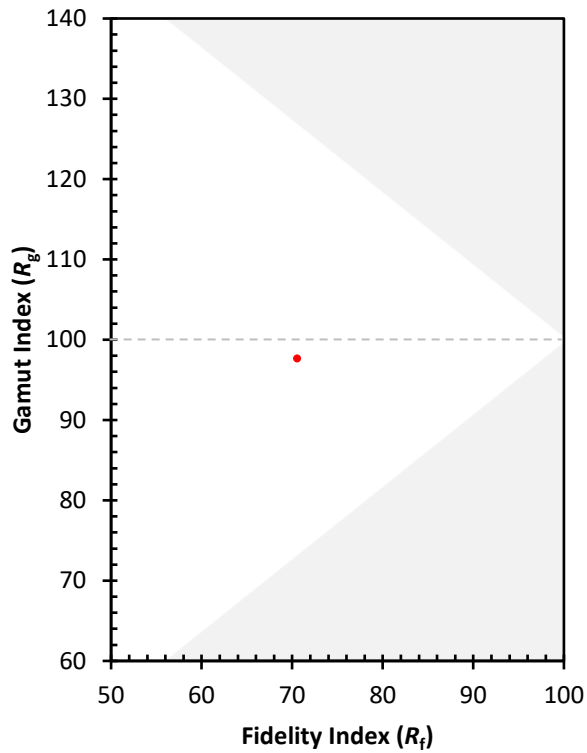
CES01 = 87	CES26 = 60	CES51 = 74	CES76 = 58
CES02 = 65	CES27 = 77	CES52 = 77	CES77 = 82
CES03 = 32	CES28 = 85	CES53 = 65	CES78 = 65
CES04 = 72	CES29 = 50	CES54 = 77	CES79 = 86
CES05 = 52	CES30 = 49	CES55 = 74	CES80 = 85
CES06 = 53	CES31 = 55	CES56 = 64	CES81 = 61
CES07 = 44	CES32 = 55	CES57 = 60	CES82 = 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)