

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: P1049563

Luminaire Tested: **GALN-SA8C-727-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049563
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-727-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 8xLight Square PACKAGE
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36550.6 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G5

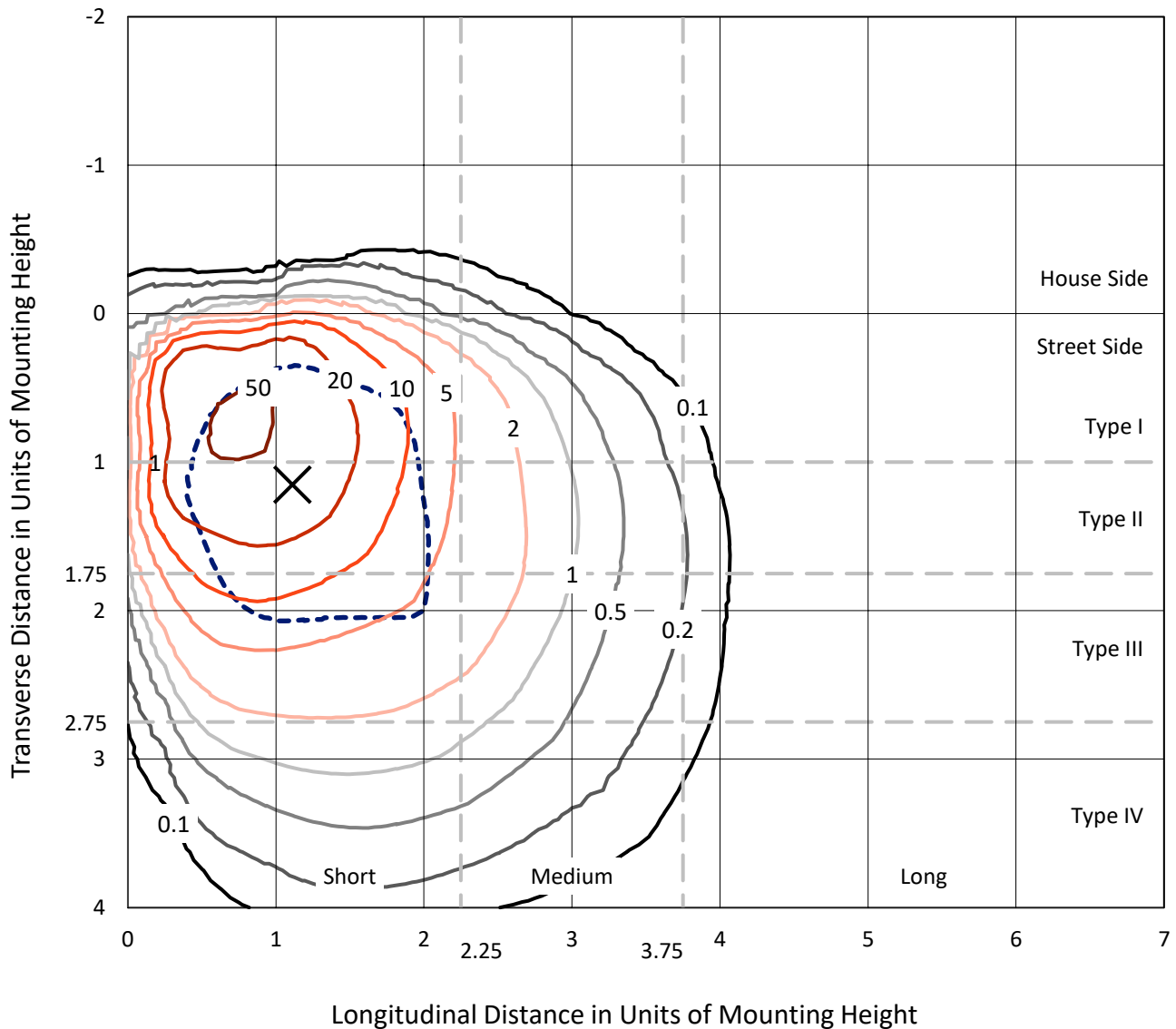
Input Watts (W): 372.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

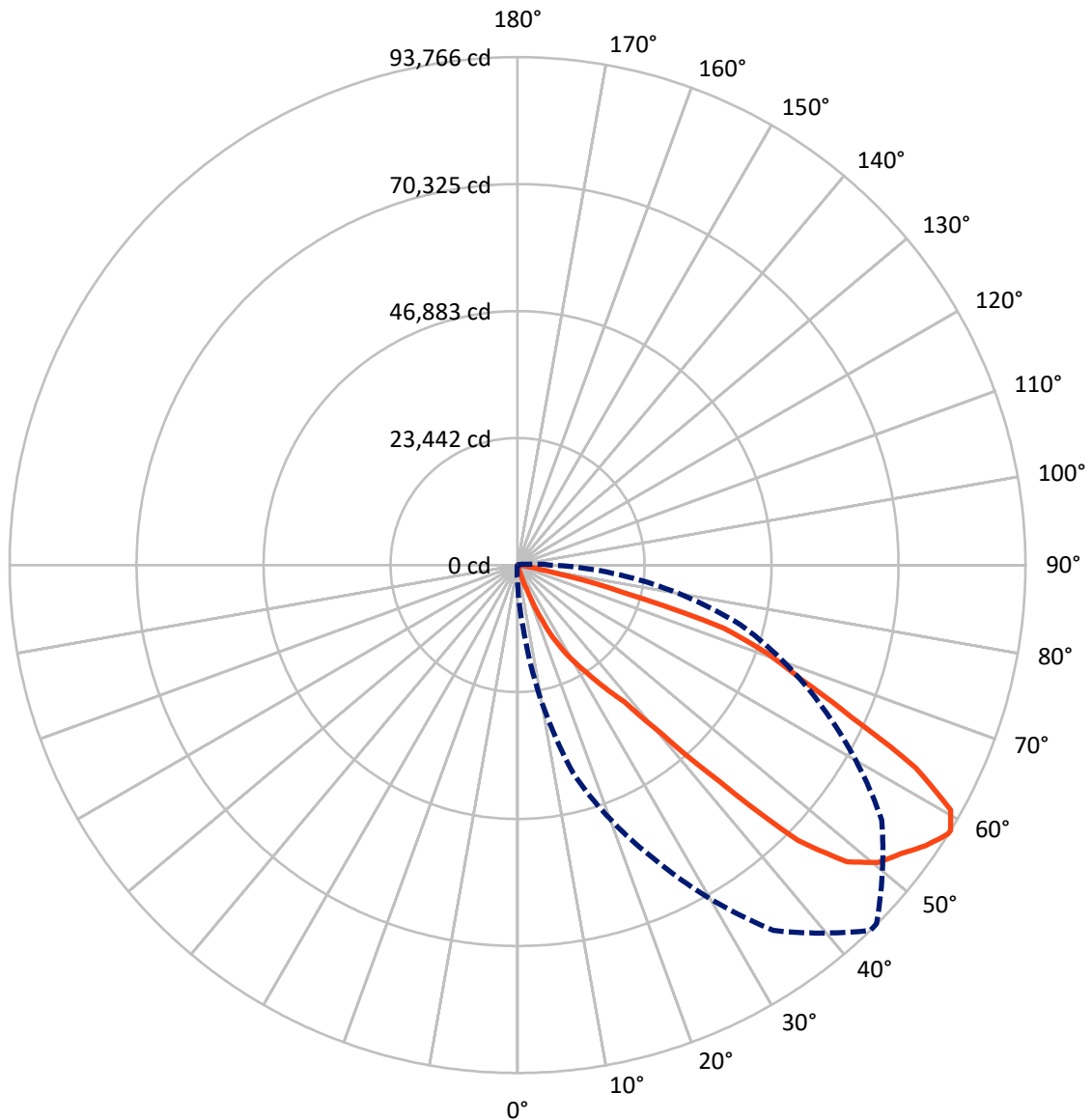
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 63.6 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	249.6	0.0	249.6
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	36301.0	0.0	36301.0
	% Fixture	99.3	0.0	99.3
Total	Lumens	36550.6	0.0	36550.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.3	0.0
10°-20°	80.2	0.2
20°-30°	865.9	2.4
30°-40°	2560.7	7.0
40°-50°	7632.3	20.9
50°-60°	12110.7	33.1
60°-70°	10101.7	27.6
70°-80°	3115.5	8.5
80°-90°	69.2	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°	36550.6	100.0
0°-180°	36550.6	100.0



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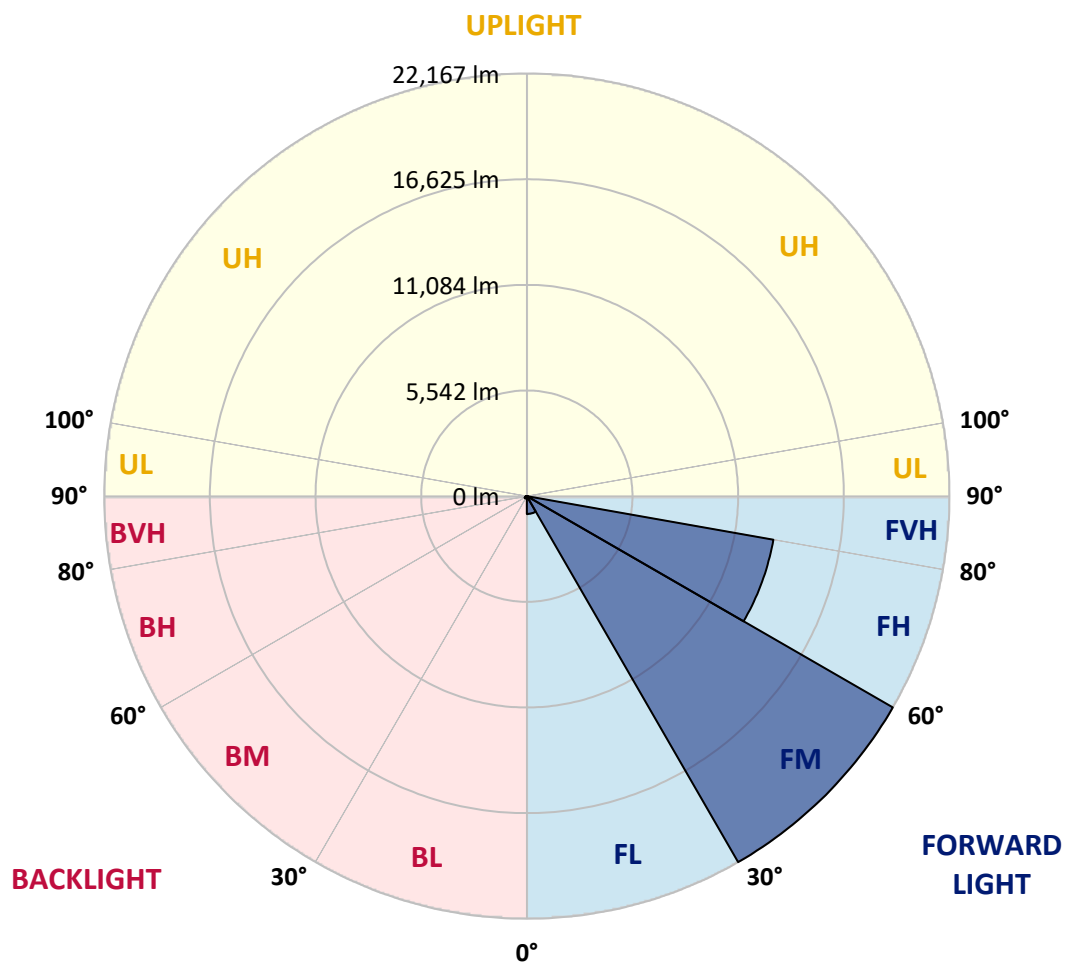
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	935.9	2.6			
FM	(30°-60°)	22167.2	60.6			
FH	(60°-80°)	13132.1	35.9			G5
FVH	(80°-90°)	65.9	0.2			G1/100
BL	(0°-30°)	24.4	0.1	B0/110		
BM	(30°-60°)	136.6	0.4	B0/220		
BH	(60°-80°)	85.2	0.2	B0/110		G0/110
BVH	(80°-90°)	3.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1
2.5°	207.1	207.1	198.8	187.8	176.7	165.7	162.9	157.4	154.6	151.9	149.1
5°	215.4	215.4	212.6	204.3	193.3	185.0	185.0	176.7	171.2	165.7	160.1
7.5°	220.9	223.6	229.2	226.4	220.9	212.6	212.6	207.1	198.8	185.0	176.7
10°	229.2	237.5	248.5	254.0	256.8	256.8	254.0	251.3	237.5	218.1	196.0
12.5°	237.5	254.0	281.6	309.2	325.8	347.9	345.1	339.6	303.7	262.3	223.6
15°	254.0	278.9	336.9	416.9	541.2	618.5	648.9	621.2	502.5	353.4	259.5
17.5°	273.3	314.8	488.7	872.5	1430.2	1695.3	1855.4	1725.7	1143.1	670.9	325.8
20°	292.7	383.8	908.4	2261.3	3710.9	4577.9	4818.1	4442.6	2852.2	1278.4	483.2
22.5°	325.8	538.4	1841.6	4674.5	7996.1	9296.6	9542.3	8341.2	5386.9	2523.6	726.2
25°	394.8	781.4	3175.2	7617.8	11933.4	14128.5	14026.3	12452.5	8738.8	4031.2	1104.4
27.5°	494.2	1137.6	4801.5	10823.5	15705.0	17640.6	17872.5	15925.9	11649.0	5928.0	1568.3
30°	637.8	1576.6	6546.5	13391.3	18728.4	20821.3	20860.0	18847.2	14252.7	7593.0	2137.1
32.5°	775.9	1990.7	8073.4	15873.5	21707.6	24002.1	24173.3	21696.6	16196.5	9326.9	2631.3
35°	880.8	2261.3	9619.6	18054.7	24711.7	27873.1	27862.1	24921.5	18499.3	10875.9	3316.1
37.5°	889.1	2531.9	11019.5	20285.7	28516.5	32056.2	32406.8	29165.3	21282.4	12792.1	4155.4
40°	869.7	2835.6	12792.1	23764.7	35372.3	40803.3	41112.5	37026.1	26865.4	16072.3	5466.9
42.5°	891.8	3363.0	15669.2	30189.7	46756.2	54556.3	55152.7	50856.4	37128.3	22765.1	7805.6
45°	1007.8	4354.2	21696.6	40938.6	62983.1	72492.3	72293.5	66105.9	49070.0	32953.5	12433.2
47.5°	1391.6	6781.2	30631.5	51400.3	73353.7	81822.0	81993.2	74430.6	56039.0	40786.7	18664.9
50°	2139.8	10376.2	38138.9	56930.8	77812.9	86308.7	86148.6	77409.8	58686.9	44644.0	22483.5
52.5°	2783.2	12977.1	41905.0	58871.8	78384.4	88525.9	88514.8	78193.9	59098.3	44975.3	22961.2
55°	2943.3	13173.1	41935.4	58976.8	79665.6	91427.8	91792.3	80123.9	59631.1	43528.5	21163.7
57.5°	2879.8	11662.8	40184.8	59584.2	81946.2	93672.6	93691.9	81993.2	60984.1	42642.2	18187.3
58°	2824.6	11425.4	39831.4	59929.3	82338.3	93766.4	93719.5	82078.8	62085.7	42609.1	17720.6
60°	2515.3	9920.6	38453.6	60810.1	81755.7	91839.2	91400.2	80209.5	61922.8	42269.4	15371.0
62.5°	1976.9	7739.3	37097.9	59791.3	75510.1	82509.5	82691.7	71012.3	56450.4	40289.7	12601.6
65°	1573.8	5767.9	34270.6	52446.8	62179.6	67757.0	68436.2	57745.3	47117.9	34116.0	9291.0
67.5°	1253.5	4169.2	28748.4	41755.9	49202.5	56549.8	57044.0	48481.9	36504.3	26139.2	6601.8
70°	1018.8	2819.1	19843.9	30537.6	40582.4	48843.6	48874.0	40275.9	27246.4	17127.0	4141.6
72.5°	902.9	1952.1	11519.2	22270.9	32906.6	39801.0	38997.6	32683.0	20940.1	10144.2	2468.4
75°	781.4	1294.9	5649.2	13614.9	19951.6	20086.9	20393.4	15161.1	10467.3	4823.6	1479.9
77.5°	643.3	919.4	2225.4	3719.2	5983.3	7659.2	7943.6	6019.2	3481.7	1187.3	789.7
80°	441.8	436.3	599.2	1140.3	1711.9	2145.4	2001.8	1549.0	911.2	455.6	281.6
82.5°	190.5	207.1	270.6	325.8	265.1	256.8	245.7	157.4	121.5	93.9	58.0
85°	60.7	55.2	58.0	58.0	46.9	35.9	35.9	16.6	0.0	0.0	0.0
87.5°	30.4	24.8	24.8	22.1	13.8	5.5	2.8	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°	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1
2.5°	146.3	146.3	140.8	135.3	132.5	127.0	124.2	121.5	118.7	116.0	113.2
5°	154.6	151.9	143.6	135.3	127.0	118.7	113.2	107.7	102.2	99.4	96.6
7.5°	168.4	162.9	146.3	132.5	121.5	110.4	104.9	96.6	91.1	82.8	80.1
10°	185.0	173.9	151.9	135.3	118.7	104.9	96.6	88.4	80.1	69.0	66.3
12.5°	207.1	187.8	160.1	132.5	113.2	96.6	88.4	77.3	69.0	60.7	55.2
15°	226.4	201.6	162.9	132.5	107.7	88.4	77.3	66.3	58.0	46.9	41.4
17.5°	254.0	212.6	160.1	124.2	99.4	77.3	66.3	58.0	44.2	27.6	22.1
20°	301.0	220.9	154.6	116.0	85.6	63.5	49.7	38.7	19.3	5.5	0.0
22.5°	375.5	243.0	149.1	104.9	74.5	49.7	33.1	13.8	0.0	0.0	0.0
25°	519.1	281.6	149.1	99.4	66.3	35.9	11.0	0.0	0.0	0.0	0.0
27.5°	690.3	334.1	149.1	85.6	52.5	19.3	0.0	0.0	0.0	0.0	0.0
30°	864.2	392.1	149.1	74.5	41.4	2.8	0.0	0.0	0.0	0.0	0.0
32.5°	1029.9	441.8	151.9	63.5	27.6	0.0	0.0	0.0	0.0	0.0	0.0
35°	1198.3	450.1	149.1	55.2	16.6	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1413.7	433.5	140.8	49.7	8.3	0.0	0.0	0.0	0.0	0.0	0.0
40°	1739.5	441.8	132.5	46.9	2.8	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2341.4	477.7	121.5	46.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4047.7	640.6	110.4	49.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6695.6	1151.4	107.7	49.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8545.6	1449.6	113.2	52.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8531.8	1615.2	118.7	55.2	11.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7584.7	1645.6	127.0	60.7	35.9	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	6339.4	1502.0	146.3	74.5	66.3	0.0	0.0	0.0	0.0	0.0	0.0
58°	6118.6	1435.8	151.9	77.3	71.8	0.0	0.0	0.0	0.0	0.0	0.0
60°	5014.1	1170.7	193.3	96.6	96.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	3462.4	1021.6	220.9	124.2	99.4	0.0	0.0	0.0	0.0	0.0	0.0
65°	2449.1	922.2	240.2	132.5	80.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1830.6	850.4	265.1	135.3	41.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	1402.6	798.0	325.8	143.6	11.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1143.1	737.2	394.8	149.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	947.1	665.4	381.0	162.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	629.5	516.3	347.9	162.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	220.9	204.3	270.6	143.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	33.1	27.6	38.7	49.7	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°	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1
2.5°	113.2	113.2	110.4	113.2	113.2	118.7	132.5	151.9	173.9	182.2	190.5
5°	93.9	91.1	88.4	88.4	88.4	96.6	107.7	129.8	154.6	165.7	171.2
7.5°	77.3	74.5	71.8	69.0	69.0	74.5	88.4	113.2	138.1	149.1	157.4
10°	63.5	58.0	55.2	52.5	52.5	58.0	71.8	96.6	124.2	135.3	146.3
12.5°	52.5	44.2	38.7	35.9	33.1	41.4	55.2	77.3	107.7	121.5	132.5
15°	35.9	27.6	19.3	16.6	13.8	22.1	35.9	60.7	91.1	107.7	118.7
17.5°	19.3	8.3	2.8	0.0	0.0	5.5	16.6	44.2	74.5	88.4	102.2
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.1	55.2	69.0	82.8
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	33.1	46.9	60.7
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.8	24.8	35.9
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	16.6
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	2.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	16.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	22.1	30.4
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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CATALOG NUMBER: GALN-SA8C-727-U-LBC

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
0°	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1
2.5°	196.0	193.3	187.8	182.2	182.2	182.2	190.5	198.8	207.1	207.1
5°	182.2	182.2	179.5	173.9	173.9	176.7	187.8	201.6	212.6	215.4
7.5°	168.4	173.9	168.4	165.7	168.4	171.2	182.2	198.8	215.4	220.9
10°	160.1	162.9	162.9	160.1	160.1	165.7	176.7	198.8	220.9	229.2
12.5°	149.1	154.6	151.9	151.9	151.9	157.4	171.2	196.0	226.4	237.5
15°	138.1	146.3	146.3	143.6	143.6	146.3	165.7	193.3	234.7	254.0
17.5°	127.0	135.3	138.1	132.5	132.5	138.1	157.4	193.3	240.2	273.3
20°	104.9	118.7	127.0	118.7	118.7	124.2	143.6	182.2	243.0	292.7
22.5°	82.8	96.6	107.7	104.9	104.9	107.7	132.5	173.9	245.7	325.8
25°	60.7	74.5	82.8	88.4	88.4	96.6	121.5	168.4	256.8	394.8
27.5°	35.9	52.5	63.5	69.0	71.8	82.8	113.2	162.9	276.1	494.2
30°	16.6	30.4	44.2	55.2	55.2	74.5	104.9	157.4	301.0	637.8
32.5°	0.0	13.8	22.1	38.7	41.4	60.7	96.6	151.9	336.9	775.9
35°	0.0	0.0	11.0	30.4	30.4	49.7	88.4	146.3	392.1	880.8
37.5°	0.0	0.0	0.0	22.1	24.8	44.2	85.6	143.6	403.1	889.1
40°	0.0	0.0	0.0	16.6	19.3	41.4	85.6	146.3	364.5	869.7
42.5°	0.0	0.0	0.0	11.0	13.8	41.4	85.6	151.9	328.6	891.8
45°	0.0	0.0	0.0	8.3	11.0	44.2	82.8	149.1	309.2	1007.8
47.5°	0.0	0.0	0.0	11.0	16.6	44.2	80.1	146.3	312.0	1391.6
50°	0.0	0.0	0.0	13.8	19.3	44.2	82.8	140.8	342.4	2139.8
52.5°	0.0	0.0	0.0	11.0	16.6	49.7	91.1	138.1	372.7	2783.2
55°	0.0	0.0	0.0	2.8	8.3	63.5	99.4	138.1	419.7	2943.3
57.5°	0.0	0.0	0.0	0.0	0.0	71.8	113.2	146.3	497.0	2879.8
58°	0.0	0.0	0.0	0.0	0.0	71.8	116.0	146.3	502.5	2824.6
60°	0.0	0.0	0.0	0.0	0.0	71.8	127.0	162.9	541.2	2515.3
62.5°	0.0	0.0	0.0	0.0	0.0	60.7	151.9	204.3	563.3	1976.9
65°	0.0	0.0	0.0	0.0	0.0	49.7	179.5	223.6	579.8	1573.8
67.5°	0.0	0.0	0.0	0.0	0.0	46.9	185.0	226.4	588.1	1253.5
70°	0.0	0.0	0.0	0.0	0.0	49.7	182.2	243.0	615.7	1018.8
72.5°	0.0	0.0	0.0	0.0	0.0	55.2	165.7	267.8	615.7	902.9
75°	0.0	0.0	0.0	0.0	0.0	58.0	154.6	301.0	560.5	781.4
77.5°	0.0	0.0	0.0	0.0	0.0	55.2	151.9	350.7	499.8	643.3
80°	5.5	8.3	8.3	5.5	5.5	46.9	149.1	356.2	425.2	441.8
82.5°	16.6	22.1	19.3	13.8	13.8	41.4	132.5	298.2	220.9	190.5
85°	30.4	35.9	35.9	30.4	30.4	38.7	82.8	107.7	74.5	60.7
87.5°	41.4	46.9	46.9	41.4	41.4	38.7	35.9	33.1	30.4	30.4
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: SP1-2407-184-3

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-727-U-5WQ

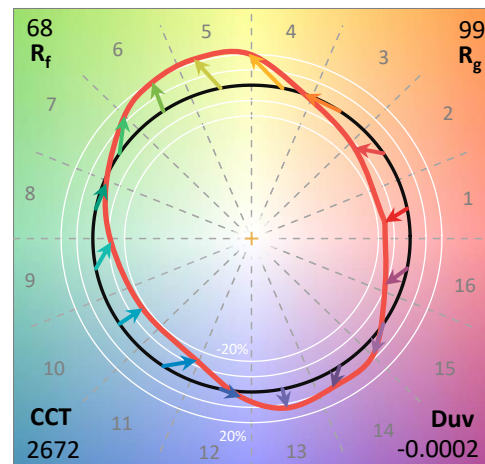
Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-3
 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-727-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K):	2672	CRI (Ra):	71.1		
CIE u':	0.2638	R1:	68.3	R9:	-27.8
CIE v':	0.5276	R2:	79.8	R10:	54.4
Duv:	-0.0002	R3:	91.2	R11:	65.8
CIE x:	0.4619	R4:	69.4	R12:	45.6
CIE y:	0.4106	R5:	66.5	R13:	69.8
CIE z:	0.1275	R6:	72.6	R14:	94.5
Peak Wavelength (nm):	601	R7:	77.0	R15:	60.1
Dominant Wavelength (nm):	584	R8:	44.1		
Purity:	61.88407				
Rf:	67.9				
Rg:	98.6				



Test Conditions

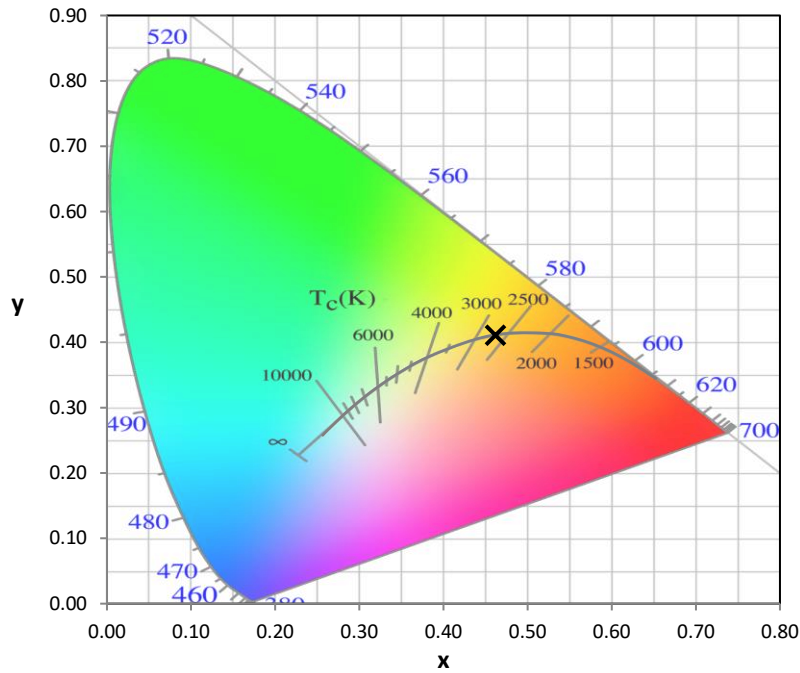
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-3

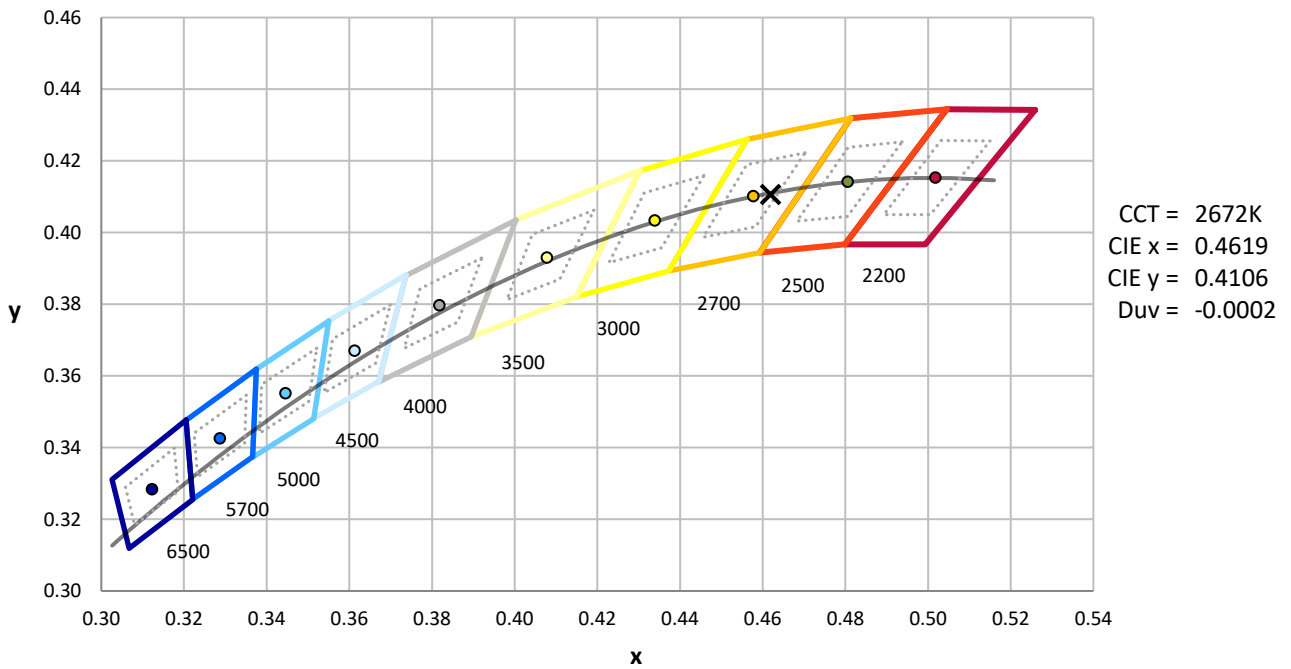
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram

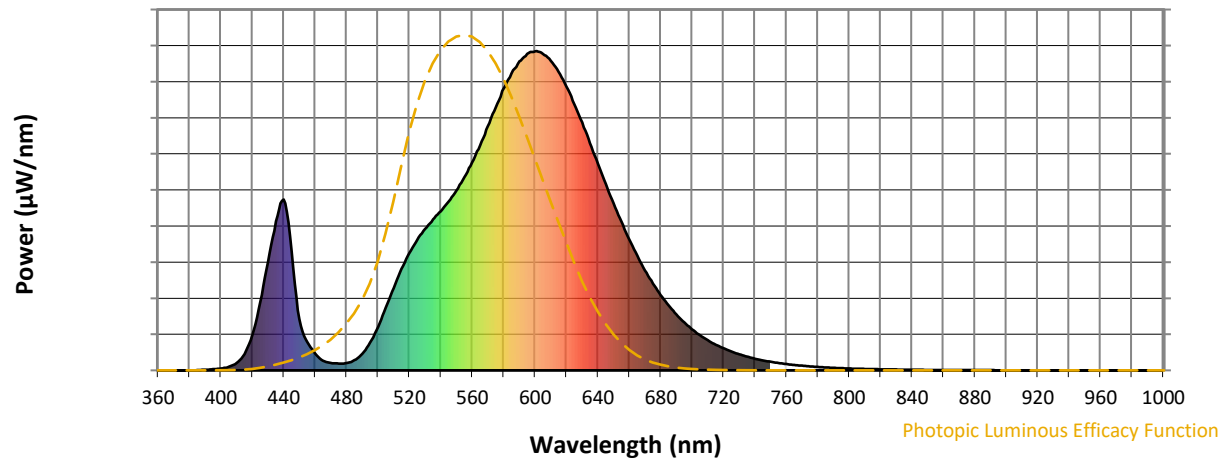


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



REPORT NUMBER: SP1-2407-184-3

Photopic Flux vs. Wavelength

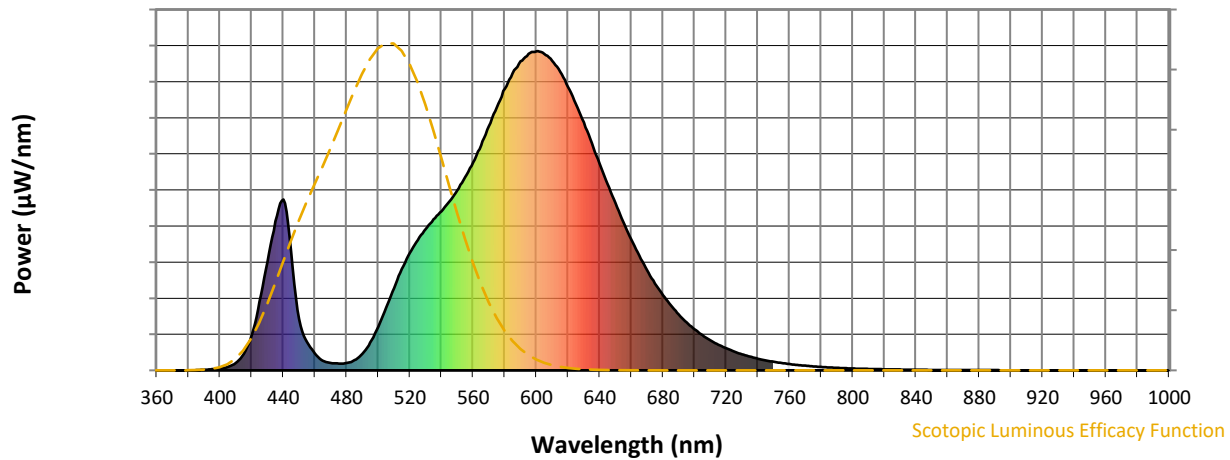


Photopic Lumens: NR

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

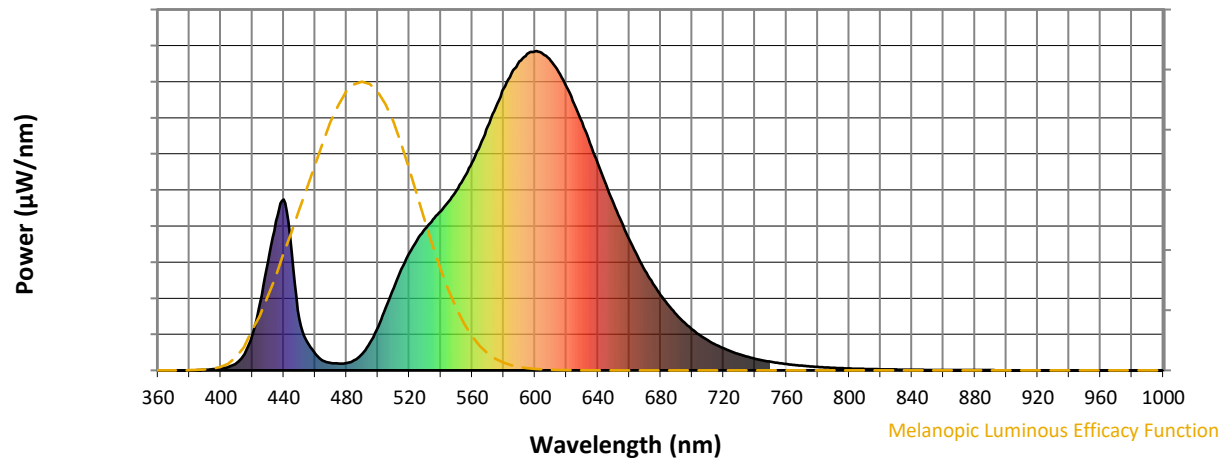
Scotopic Flux vs. Wavelength


Scotopic Lumens: NR
S/P: 1.02

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.71

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

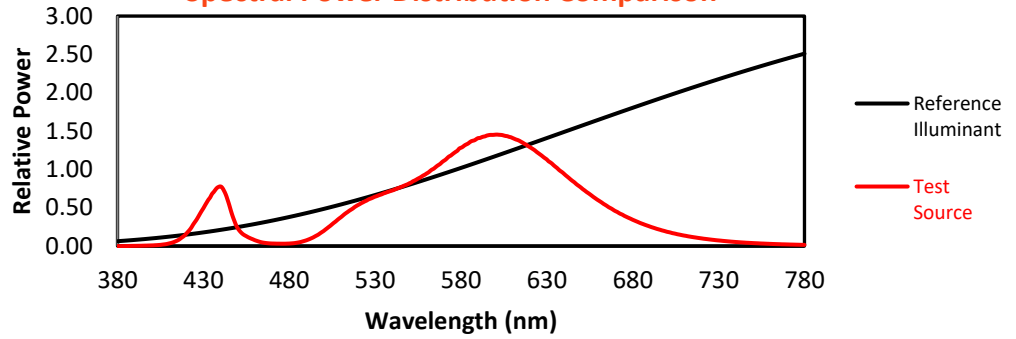
REPORT NUMBER: SP1-2407-184-3

TM-30-18

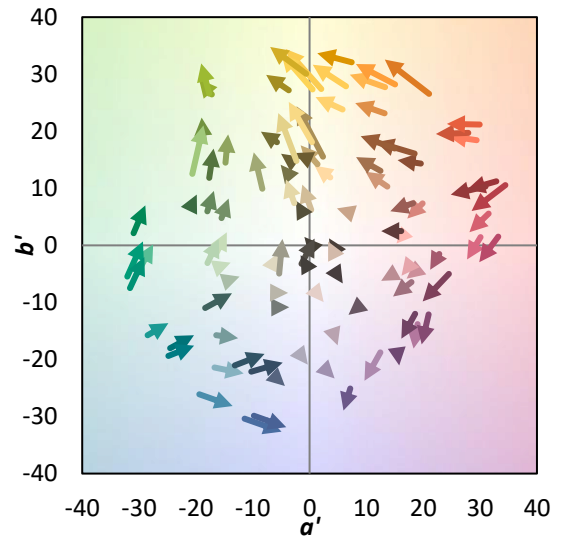
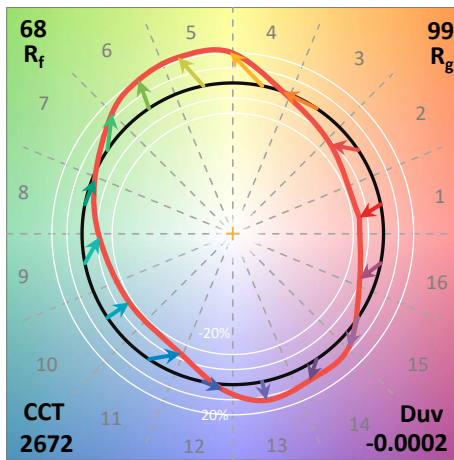
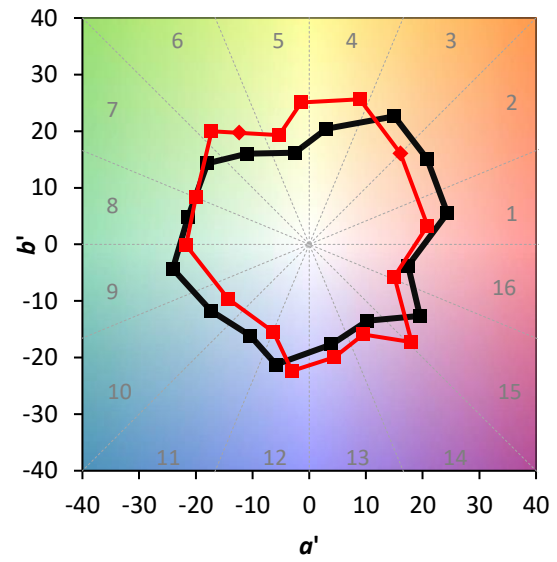
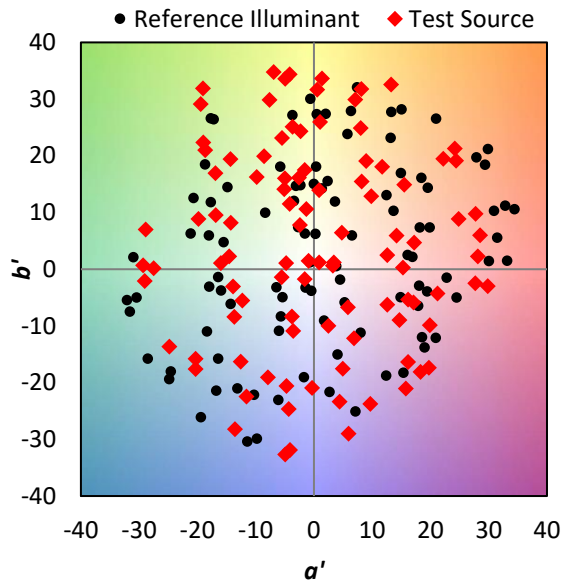
Summary

$R_f = 67.9$
 $R_g = 98.6$
 $CIE\ R_a = 71.1$
 $R_g = -27.8$

Spectral Power Distribution Comparison

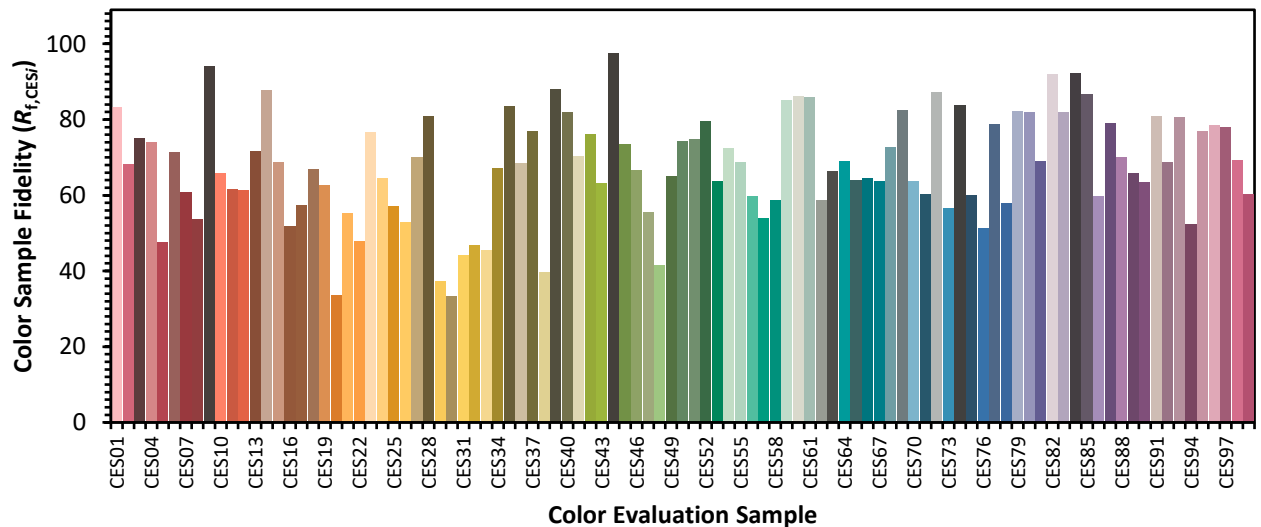


Color Vector Graphics

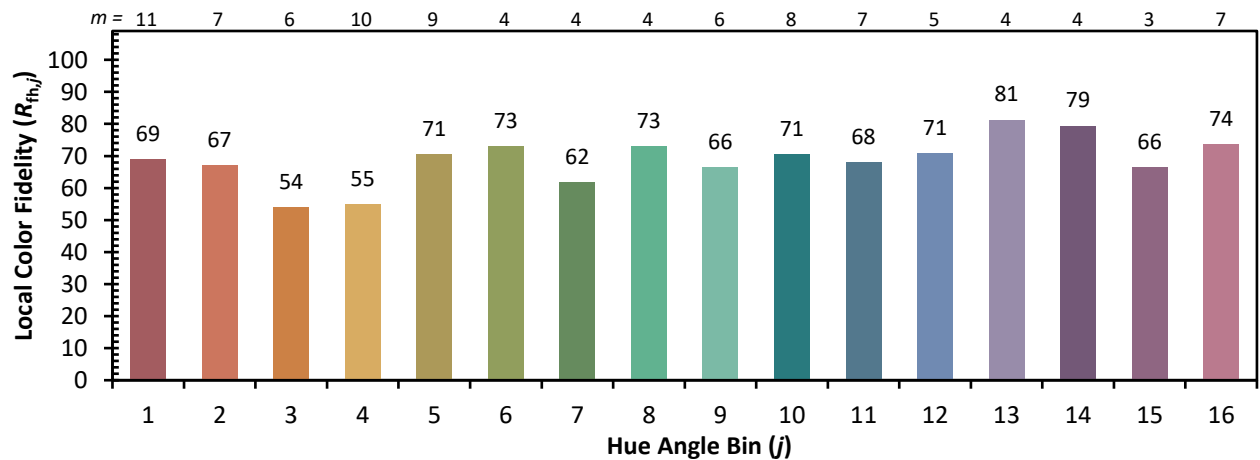
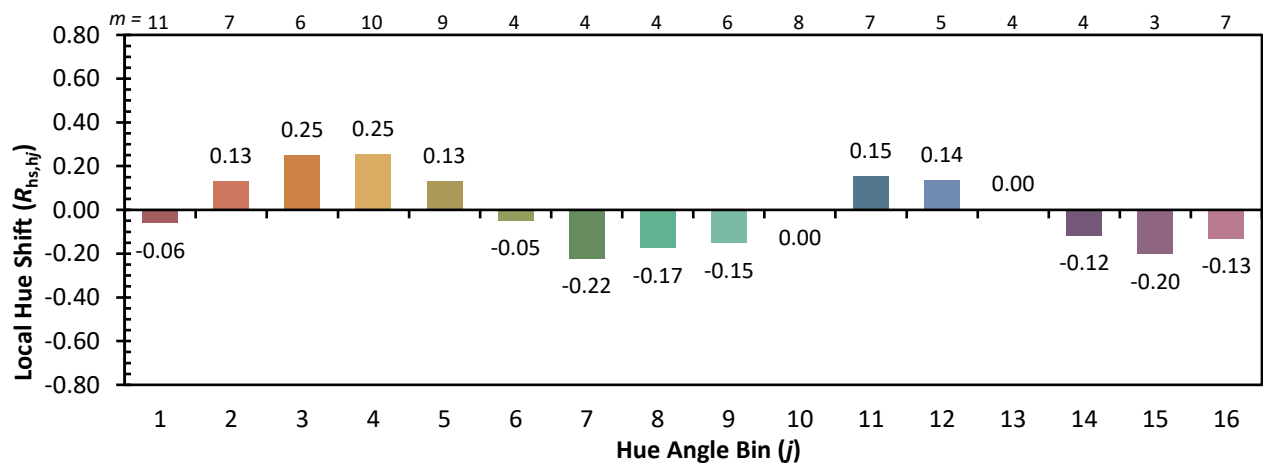
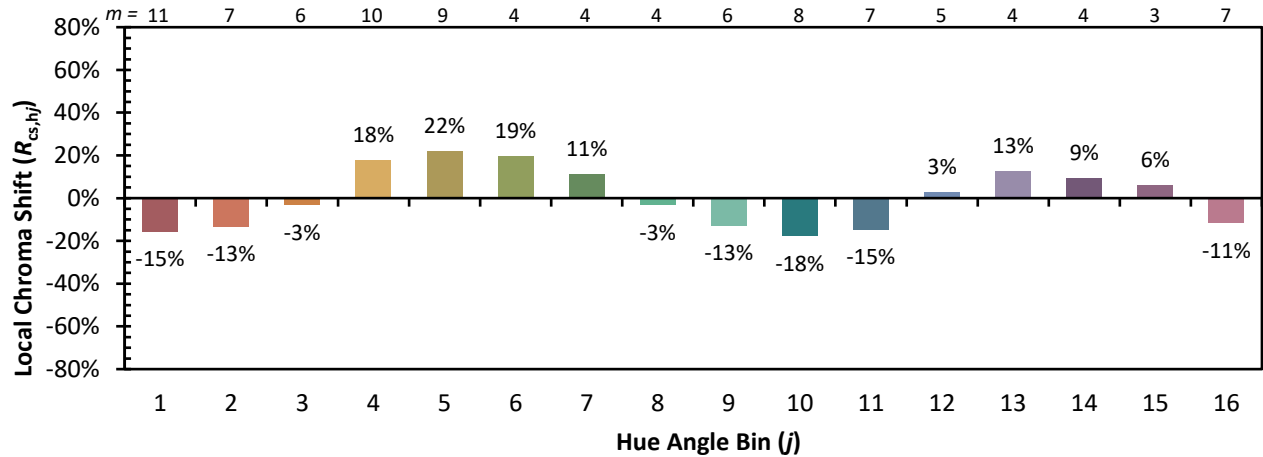


Individual Sample Fidelity Index ($R_{f,i}$)

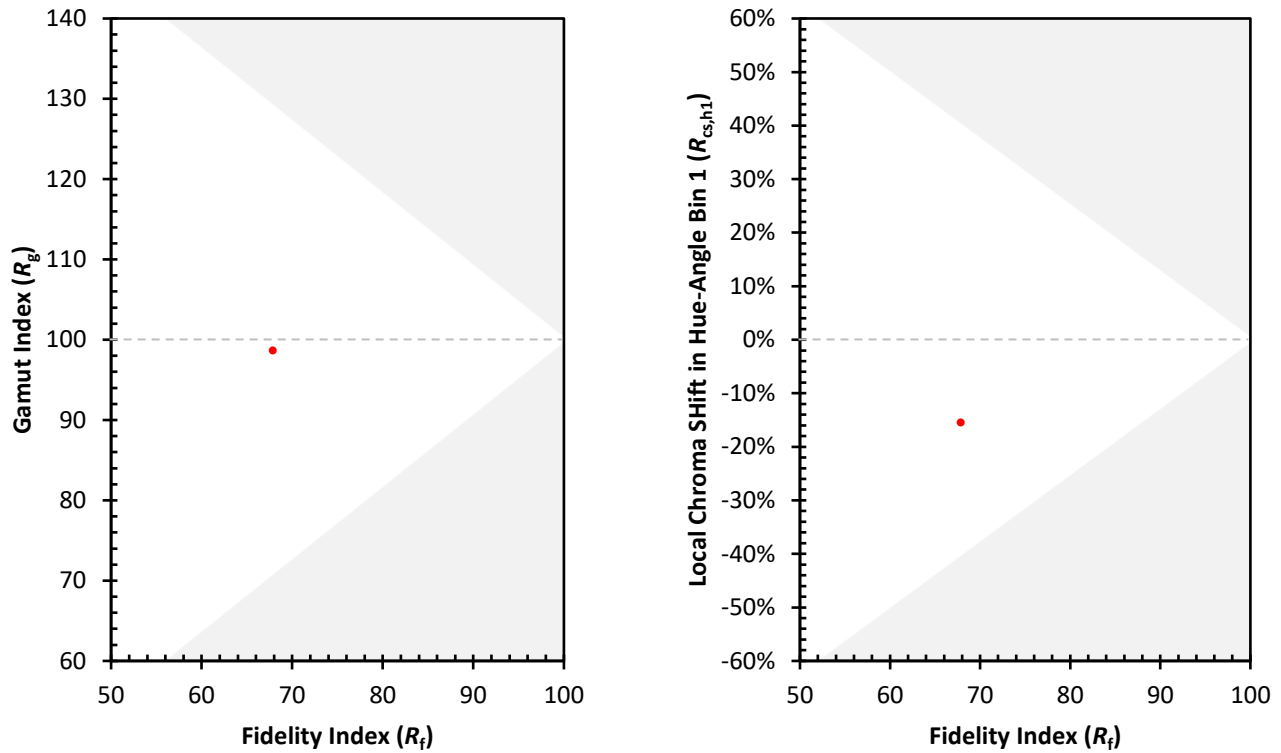
CES01 = 86	CES26 = 53	CES51 = 75	CES76 = 51
CES02 = 63	CES27 = 70	CES52 = 80	CES77 = 79
CES03 = 31	CES28 = 81	CES53 = 64	CES78 = 58
CES04 = 71	CES29 = 37	CES54 = 73	CES79 = 82
CES05 = 50	CES30 = 33	CES55 = 69	CES80 = 82
CES06 = 52	CES31 = 44	CES56 = 60	CES81 = 69
CES07 = 42	CES32 = 47	CES57 = 54	CES82 = 92
CES08 = 41	CES33 = 45	CES58 = 59	CES83 = 82
CES09 = 29	CES34 = 67	CES59 = 85	CES84 = 92
CES10 = 77	CES35 = 84	CES60 = 86	CES85 = 87
CES11 = 60	CES36 = 68	CES61 = 86	CES86 = 60
CES12 = 66	CES37 = 77	CES62 = 59	CES87 = 79
CES13 = 44	CES38 = 40	CES63 = 66	CES88 = 70
CES14 = 74	CES39 = 88	CES64 = 69	CES89 = 66
CES15 = 72	CES40 = 82	CES65 = 64	CES90 = 64
CES16 = 48	CES41 = 70	CES66 = 65	CES91 = 81
CES17 = 51	CES42 = 76	CES67 = 64	CES92 = 69
CES18 = 57	CES43 = 63	CES68 = 73	CES93 = 81
CES19 = 73	CES44 = 97	CES69 = 83	CES94 = 53
CES20 = 67	CES45 = 74	CES70 = 64	CES95 = 77
CES21 = 88	CES46 = 67	CES71 = 60	CES96 = 79
CES22 = 80	CES47 = 55	CES72 = 87	CES97 = 78
CES23 = 92	CES48 = 42	CES73 = 57	CES98 = 69
CES24 = 92	CES49 = 65	CES74 = 84	CES99 = 60
CES25 = 73	CES50 = 74	CES75 = 60	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)