

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: P1049530

Luminaire Tested: **GALN-SA9B-722-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049530
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-722-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 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: 26440.7 lumens
Efficiency: N/A
Efficacy: 84.6 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

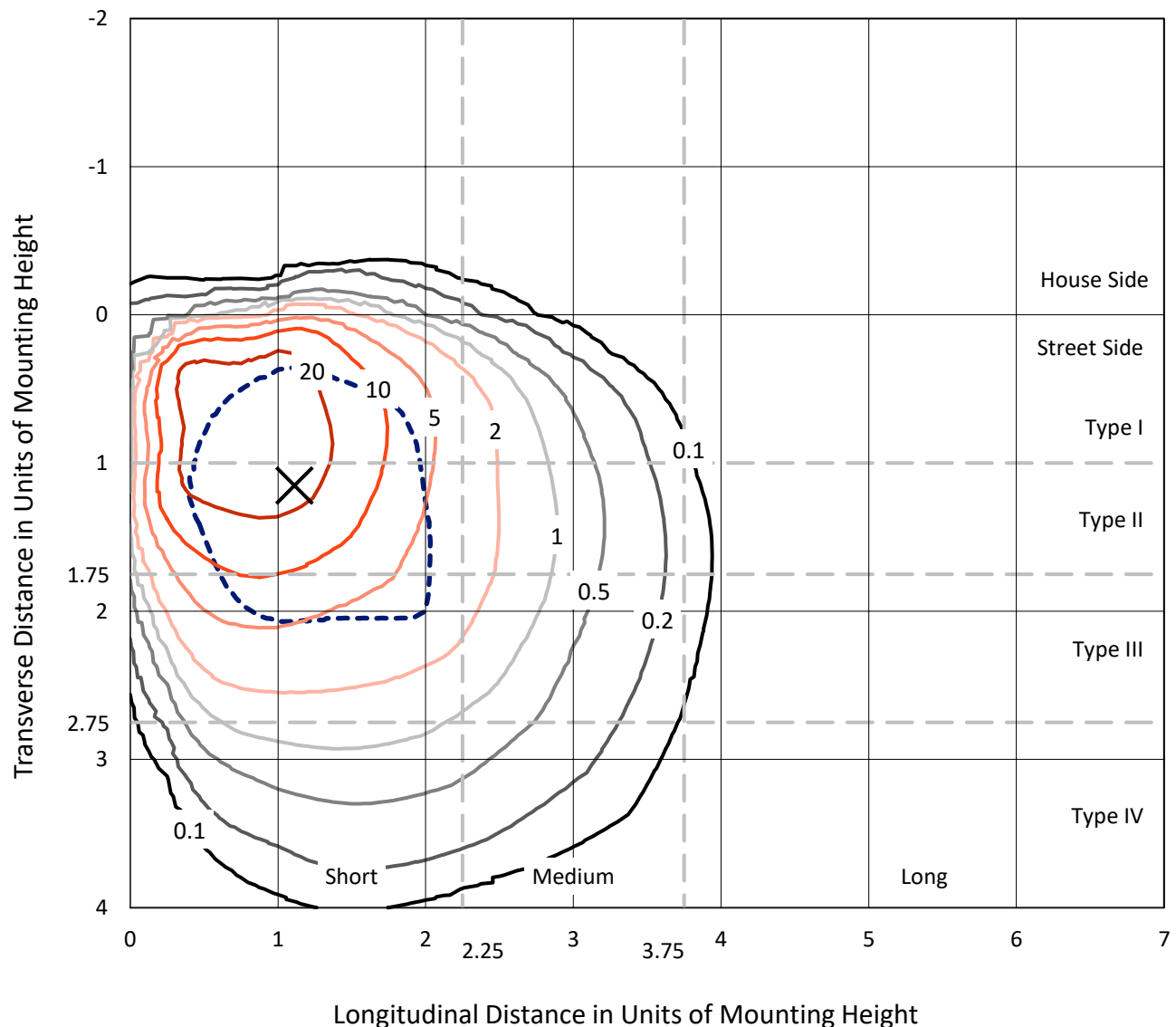
Input Watts (W): 312.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

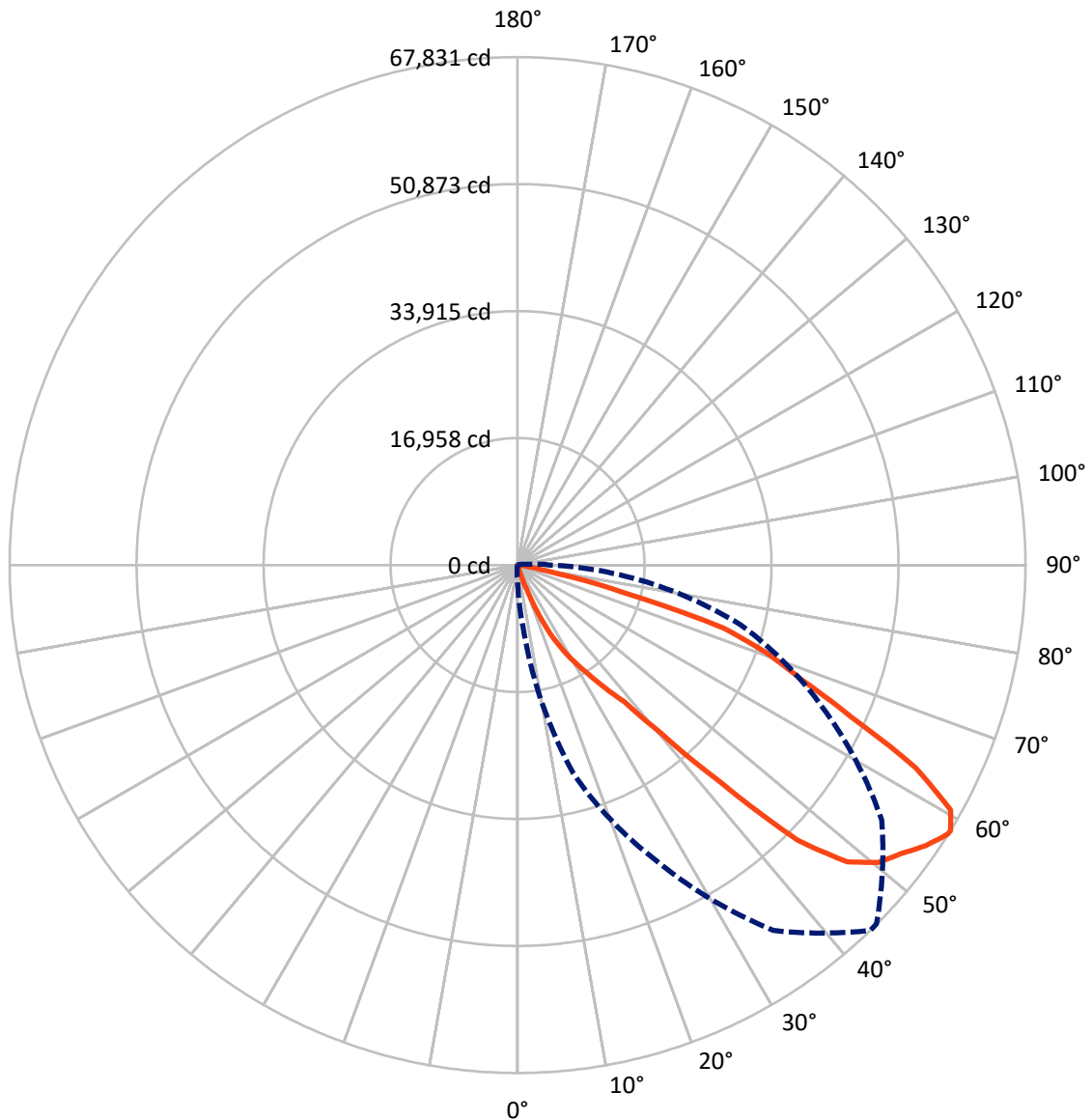
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 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	26260.1	0.0	26260.1
	% Fixture	99.3	0.0	99.3
Total	Lumens	26440.7	0.0	26440.7
	% 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°	626.4	2.4
30°-40°	1852.4	7.0
40°-50°	5521.2	20.9
50°-60°	8760.9	33.1
60°-70°	7307.6	27.6
70°-80°	2253.8	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°	26440.7	100.0
0°-180°	26440.7	100.0



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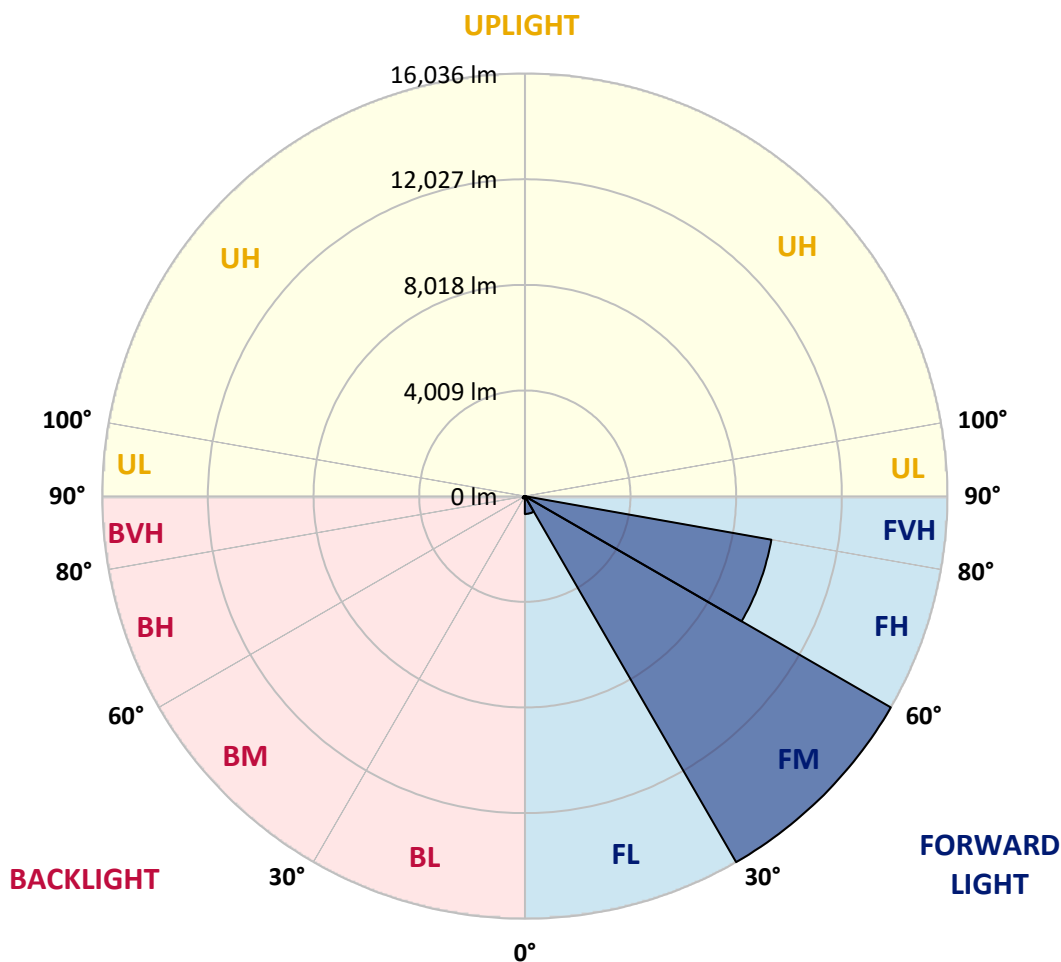
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	677.0	2.6			
FM	(30°-60°)	16035.7	60.6			
FH	(60°-80°)	9499.7	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°	85°
0°	115.8	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	111.9	109.9	107.9
5°	155.8	155.8	153.8	147.8	139.8	133.8	133.8	127.8	123.8	119.8	115.8
7.5°	159.8	161.8	165.8	163.8	159.8	153.8	153.8	149.8	143.8	133.8	127.8
10°	165.8	171.8	179.8	183.8	185.8	185.8	183.8	181.8	171.8	157.8	141.8
12.5°	171.8	183.8	203.7	223.7	235.7	251.7	249.7	245.7	219.7	189.7	161.8
15°	183.8	201.7	243.7	301.6	391.5	447.4	469.4	449.4	363.5	255.7	187.8
17.5°	197.7	227.7	353.5	631.2	1034.6	1226.4	1342.2	1248.4	826.9	485.4	235.7
20°	211.7	277.6	657.1	1635.8	2684.5	3311.6	3485.4	3213.8	2063.3	924.8	349.5
22.5°	235.7	389.5	1332.2	3381.5	5784.4	6725.1	6902.9	6034.0	3896.9	1825.6	525.3
25°	285.6	565.3	2297.0	5510.7	8632.6	10220.5	10146.6	9008.1	6321.7	2916.2	798.9
27.5°	357.5	822.9	3473.4	7829.7	11361.0	12761.2	12929.0	11520.8	8426.9	4288.3	1134.5
30°	461.4	1140.5	4735.8	9687.2	13548.1	15062.1	15090.1	13634.0	10310.4	5492.8	1546.0
32.5°	561.3	1440.1	5840.3	11482.9	15703.3	17363.1	17487.0	15695.3	11716.6	6747.1	1903.5
35°	637.2	1635.8	6958.8	13060.8	17876.4	20163.4	20155.4	18028.2	13382.4	7867.6	2398.8
37.5°	643.2	1831.6	7971.5	14674.7	20628.8	23189.4	23443.1	21098.2	15395.7	9253.8	3006.0
40°	629.2	2051.3	9253.8	17191.3	25588.3	29517.1	29740.8	26784.7	19434.4	11626.7	3954.8
42.5°	645.1	2432.8	11335.1	21839.2	33823.4	39466.0	39897.4	36789.5	26858.6	16468.3	5646.6
45°	729.0	3149.8	15695.3	29615.0	45561.9	52440.9	52297.1	47821.0	35497.2	23838.6	8994.1
47.5°	1006.7	4905.5	22158.8	37183.0	53064.1	59190.0	59313.8	53843.0	40538.6	29505.1	13502.2
50°	1548.0	7506.1	27589.6	41183.7	56289.8	62435.7	62319.9	55998.2	42454.0	32295.4	16264.6
52.5°	2013.3	9387.6	30314.0	42587.9	56703.3	64039.6	64031.6	56565.4	42751.7	32535.1	16610.1
55°	2129.2	9529.4	30336.0	42663.8	57630.0	66138.8	66402.5	57961.6	43137.1	31488.5	15309.8
57.5°	2083.3	8436.9	29069.7	43103.2	59279.9	67762.7	67776.7	59313.8	44115.9	30847.3	13156.7
58°	2043.3	8265.1	28814.0	43352.9	59563.5	67830.6	67796.6	59375.7	44912.8	30823.4	12819.1
60°	1819.6	7176.5	27817.3	43990.0	59142.1	66436.4	66118.9	58023.5	44795.0	30577.7	11119.3
62.5°	1430.1	5598.6	26836.6	43253.0	54624.0	59687.3	59819.2	51370.3	40836.2	29145.6	9116.0
65°	1138.5	4172.5	24791.3	37940.0	44980.7	49015.4	49506.8	41772.9	34085.1	24679.5	6721.1
67.5°	906.8	3016.0	20796.6	30206.2	35593.1	40908.1	41265.6	35071.8	26407.2	18909.1	4775.7
70°	737.0	2039.3	14355.1	22090.9	29357.3	35333.4	35355.4	29135.6	19710.0	12389.7	2996.1
72.5°	653.1	1412.1	8333.0	16110.8	23804.6	28792.1	28210.8	23642.8	15148.0	7338.3	1785.6
75°	565.3	936.8	4086.6	9849.0	14433.0	14530.8	14752.6	10967.5	7572.0	3489.4	1070.6
77.5°	465.4	665.1	1609.9	2690.5	4328.3	5540.7	5746.4	4354.3	2518.7	858.9	571.2
80°	319.6	315.6	433.4	824.9	1238.4	1552.0	1448.1	1120.5	659.1	329.6	203.7
82.5°	137.8	149.8	195.7	235.7	191.7	185.8	177.8	113.8	87.9	67.9	41.9
85°	43.9	39.9	41.9	41.9	34.0	26.0	26.0	12.0	0.0	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	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°	115.8	115.8	115.8	115.8	115.8	115.8	115.8	115.8	115.8	115.8	115.8
2.5°	105.9	105.9	101.9	97.9	95.9	91.9	89.9	87.9	85.9	83.9	81.9
5°	111.9	109.9	103.9	97.9	91.9	85.9	81.9	77.9	73.9	71.9	69.9
7.5°	121.8	117.8	105.9	95.9	87.9	79.9	75.9	69.9	65.9	59.9	57.9
10°	133.8	125.8	109.9	97.9	85.9	75.9	69.9	63.9	57.9	49.9	47.9
12.5°	149.8	135.8	115.8	95.9	81.9	69.9	63.9	55.9	49.9	43.9	39.9
15°	163.8	145.8	117.8	95.9	77.9	63.9	55.9	47.9	41.9	34.0	30.0
17.5°	183.8	153.8	115.8	89.9	71.9	55.9	47.9	41.9	32.0	20.0	16.0
20°	217.7	159.8	111.9	83.9	61.9	45.9	36.0	28.0	14.0	4.0	0.0
22.5°	271.6	175.8	107.9	75.9	53.9	36.0	24.0	10.0	0.0	0.0	0.0
25°	375.5	203.7	107.9	71.9	47.9	26.0	8.0	0.0	0.0	0.0	0.0
27.5°	499.3	241.7	107.9	61.9	37.9	14.0	0.0	0.0	0.0	0.0	0.0
30°	625.2	283.6	107.9	53.9	30.0	2.0	0.0	0.0	0.0	0.0	0.0
32.5°	745.0	319.6	109.9	45.9	20.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	866.9	325.6	107.9	39.9	12.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1022.7	313.6	101.9	36.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1258.3	319.6	95.9	34.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1693.8	345.5	87.9	34.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2928.1	463.4	79.9	36.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4843.6	832.9	77.9	36.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6181.9	1048.6	81.9	37.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6171.9	1168.5	85.9	39.9	8.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5486.8	1190.4	91.9	43.9	26.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4586.0	1086.6	105.9	53.9	47.9	0.0	0.0	0.0	0.0	0.0	0.0
58°	4426.2	1038.6	109.9	55.9	51.9	0.0	0.0	0.0	0.0	0.0	0.0
60°	3627.2	846.9	139.8	69.9	69.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	2504.7	739.0	159.8	89.9	71.9	0.0	0.0	0.0	0.0	0.0	0.0
65°	1771.7	667.1	173.8	95.9	57.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1324.3	615.2	191.7	97.9	30.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1014.7	577.2	235.7	103.9	8.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	826.9	533.3	285.6	107.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	685.1	481.4	275.6	117.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	455.4	373.5	251.7	117.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	159.8	147.8	195.7	103.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	24.0	20.0	28.0	36.0	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	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°	115.8	115.8	115.8	115.8	115.8	115.8	115.8	115.8	115.8	115.8	115.8
2.5°	81.9	81.9	79.9	81.9	81.9	85.9	95.9	109.9	125.8	131.8	137.8
5°	67.9	65.9	63.9	63.9	63.9	69.9	77.9	93.9	111.9	119.8	123.8
7.5°	55.9	53.9	51.9	49.9	49.9	53.9	63.9	81.9	99.9	107.9	113.8
10°	45.9	41.9	39.9	37.9	37.9	41.9	51.9	69.9	89.9	97.9	105.9
12.5°	37.9	32.0	28.0	26.0	24.0	30.0	39.9	55.9	77.9	87.9	95.9
15°	26.0	20.0	14.0	12.0	10.0	16.0	26.0	43.9	65.9	77.9	85.9
17.5°	14.0	6.0	2.0	0.0	0.0	4.0	12.0	32.0	53.9	63.9	73.9
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.0	39.9	49.9	59.9
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	24.0	34.0	43.9
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	18.0	26.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	12.0
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	2.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	12.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	16.0	22.0
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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CATALOG NUMBER: GALN-SA9B-722-U-LBC

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
0°	115.8	115.8	115.8	115.8	115.8	115.8	115.8	115.8	115.8	115.8
2.5°	141.8	139.8	135.8	131.8	131.8	131.8	137.8	143.8	149.8	149.8
5°	131.8	131.8	129.8	125.8	125.8	127.8	135.8	145.8	153.8	155.8
7.5°	121.8	125.8	121.8	119.8	121.8	123.8	131.8	143.8	155.8	159.8
10°	115.8	117.8	117.8	115.8	115.8	119.8	127.8	143.8	159.8	165.8
12.5°	107.9	111.9	109.9	109.9	109.9	113.8	123.8	141.8	163.8	171.8
15°	99.9	105.9	105.9	103.9	103.9	105.9	119.8	139.8	169.8	183.8
17.5°	91.9	97.9	99.9	95.9	95.9	99.9	113.8	139.8	173.8	197.7
20°	75.9	85.9	91.9	85.9	85.9	89.9	103.9	131.8	175.8	211.7
22.5°	59.9	69.9	77.9	75.9	75.9	77.9	95.9	125.8	177.8	235.7
25°	43.9	53.9	59.9	63.9	63.9	69.9	87.9	121.8	185.8	285.6
27.5°	26.0	37.9	45.9	49.9	51.9	59.9	81.9	117.8	199.7	357.5
30°	12.0	22.0	32.0	39.9	39.9	53.9	75.9	113.8	217.7	461.4
32.5°	0.0	10.0	16.0	28.0	30.0	43.9	69.9	109.9	243.7	561.3
35°	0.0	0.0	8.0	22.0	22.0	36.0	63.9	105.9	283.6	637.2
37.5°	0.0	0.0	0.0	16.0	18.0	32.0	61.9	103.9	291.6	643.2
40°	0.0	0.0	0.0	12.0	14.0	30.0	61.9	105.9	263.7	629.2
42.5°	0.0	0.0	0.0	8.0	10.0	30.0	61.9	109.9	237.7	645.1
45°	0.0	0.0	0.0	6.0	8.0	32.0	59.9	107.9	223.7	729.0
47.5°	0.0	0.0	0.0	8.0	12.0	32.0	57.9	105.9	225.7	1006.7
50°	0.0	0.0	0.0	10.0	14.0	32.0	59.9	101.9	247.7	1548.0
52.5°	0.0	0.0	0.0	8.0	12.0	36.0	65.9	99.9	269.6	2013.3
55°	0.0	0.0	0.0	2.0	6.0	45.9	71.9	99.9	303.6	2129.2
57.5°	0.0	0.0	0.0	0.0	0.0	51.9	81.9	105.9	359.5	2083.3
58°	0.0	0.0	0.0	0.0	0.0	51.9	83.9	105.9	363.5	2043.3
60°	0.0	0.0	0.0	0.0	0.0	51.9	91.9	117.8	391.5	1819.6
62.5°	0.0	0.0	0.0	0.0	0.0	43.9	109.9	147.8	407.5	1430.1
65°	0.0	0.0	0.0	0.0	0.0	36.0	129.8	161.8	419.4	1138.5
67.5°	0.0	0.0	0.0	0.0	0.0	34.0	133.8	163.8	425.4	906.8
70°	0.0	0.0	0.0	0.0	0.0	36.0	131.8	175.8	445.4	737.0
72.5°	0.0	0.0	0.0	0.0	0.0	39.9	119.8	193.7	445.4	653.1
75°	0.0	0.0	0.0	0.0	0.0	41.9	111.9	217.7	405.5	565.3
77.5°	0.0	0.0	0.0	0.0	0.0	39.9	109.9	253.7	361.5	465.4
80°	4.0	6.0	6.0	4.0	4.0	34.0	107.9	257.7	307.6	319.6
82.5°	12.0	16.0	14.0	10.0	10.0	30.0	95.9	215.7	159.8	137.8
85°	22.0	26.0	26.0	22.0	22.0	28.0	59.9	77.9	53.9	43.9
87.5°	30.0	34.0	34.0	30.0	30.0	28.0	26.0	24.0	22.0	22.0
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

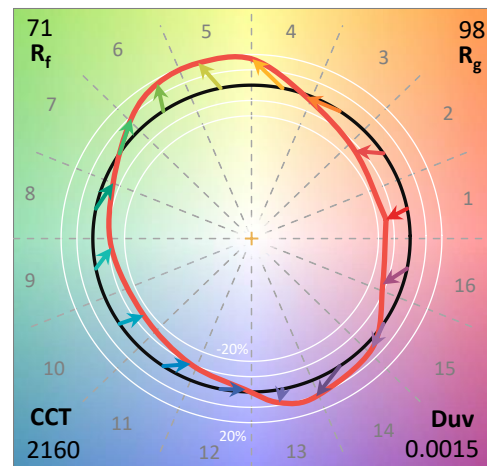
Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

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

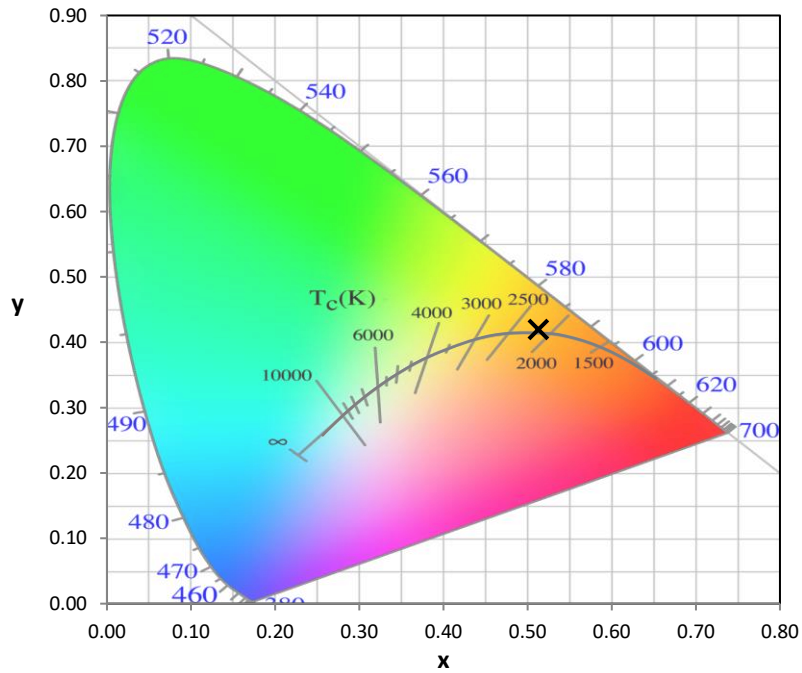
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-2

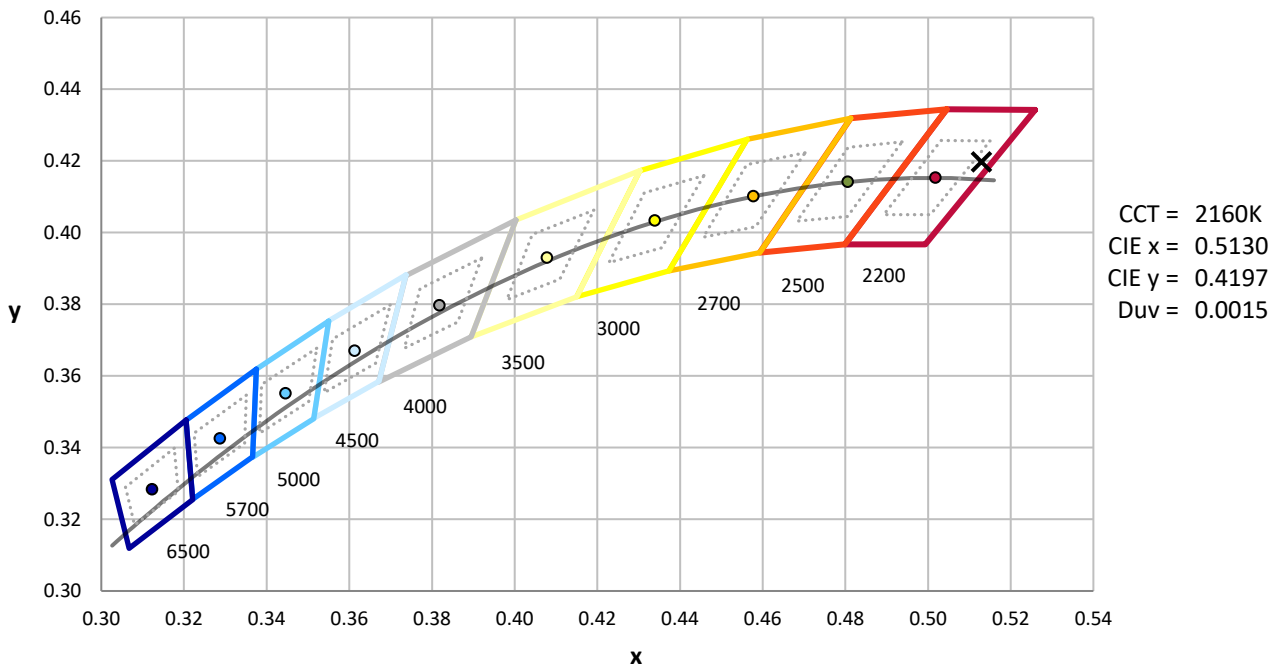
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



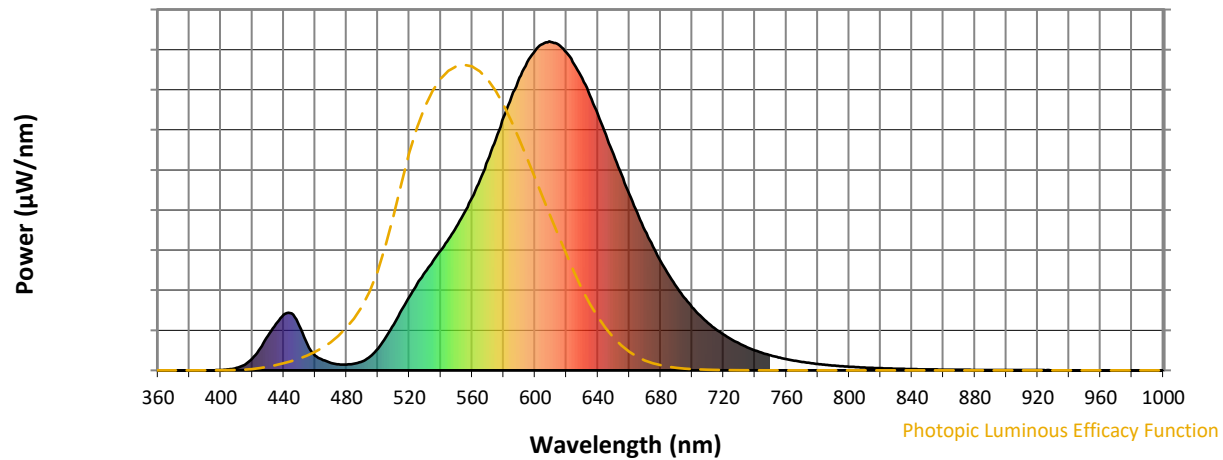
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-2

Photopic Flux vs. Wavelength

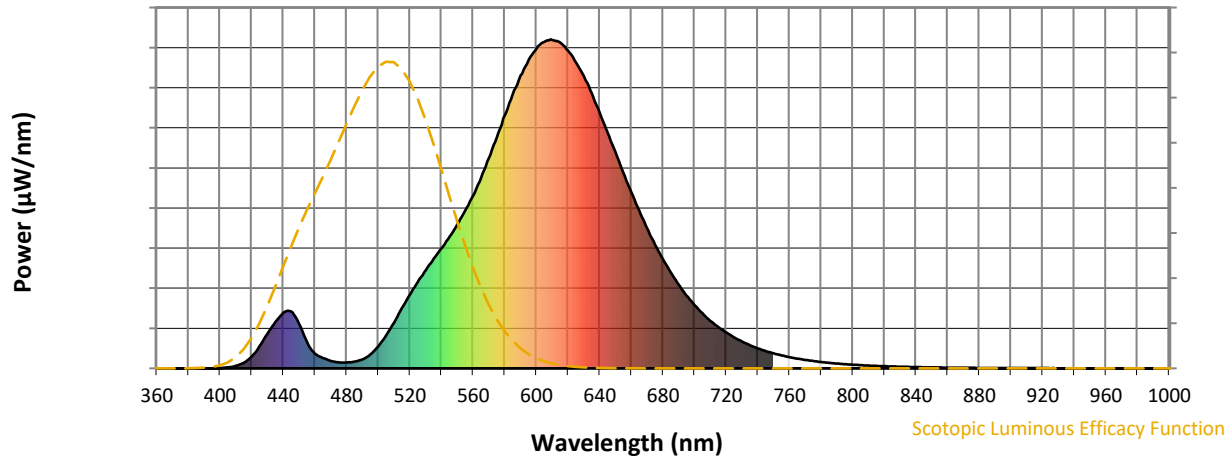


Photopic Lumens: NR

λ (nm)	Power 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	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



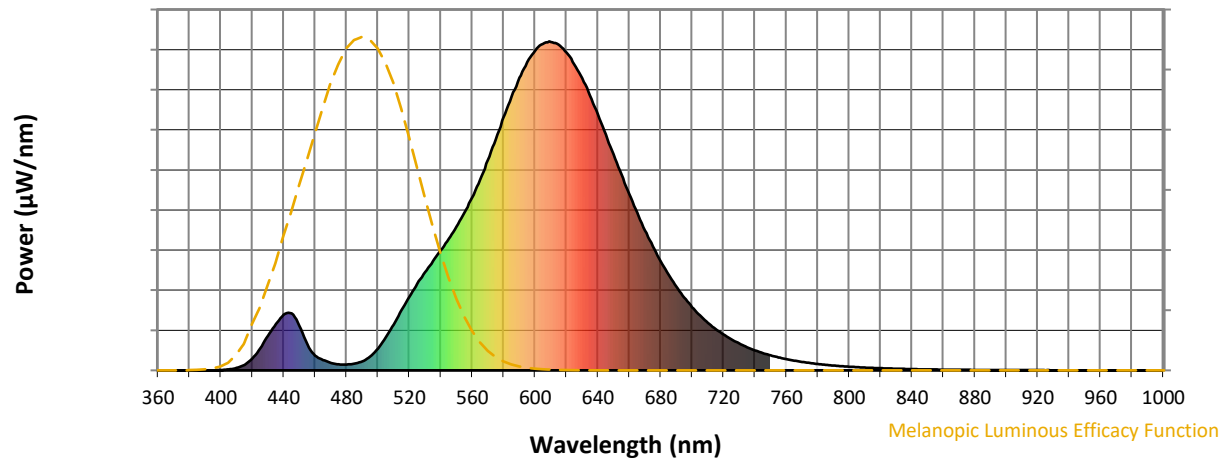
Scotopic Lumens: NR

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			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.21

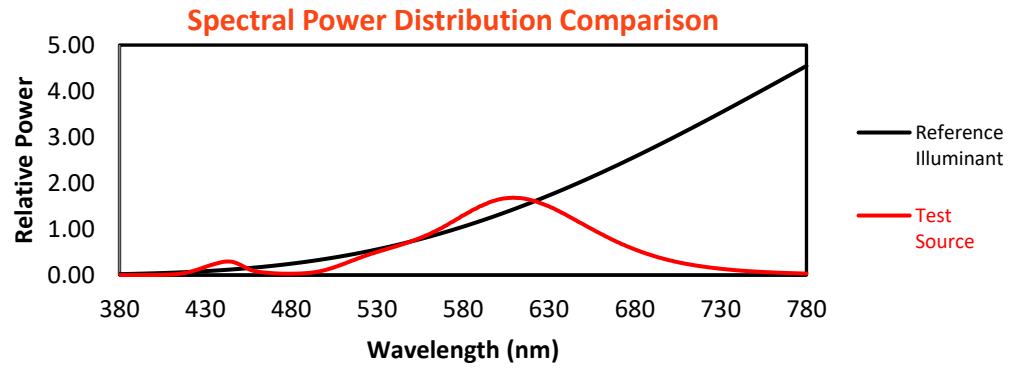
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	27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

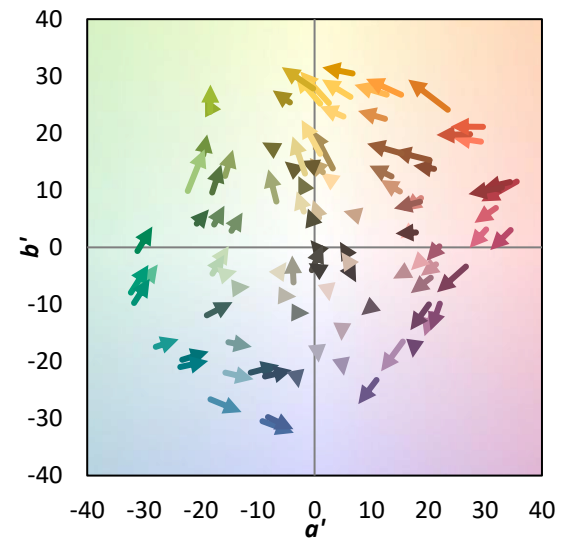
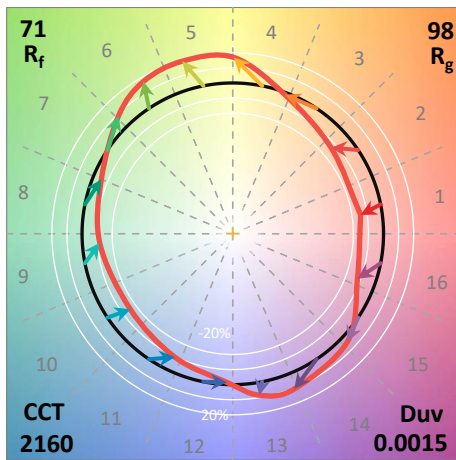
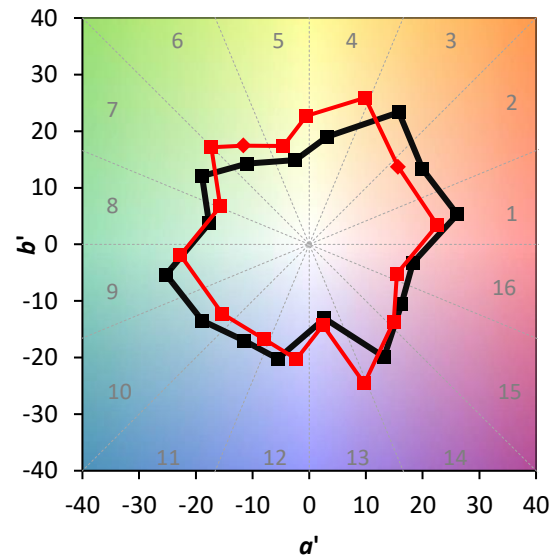
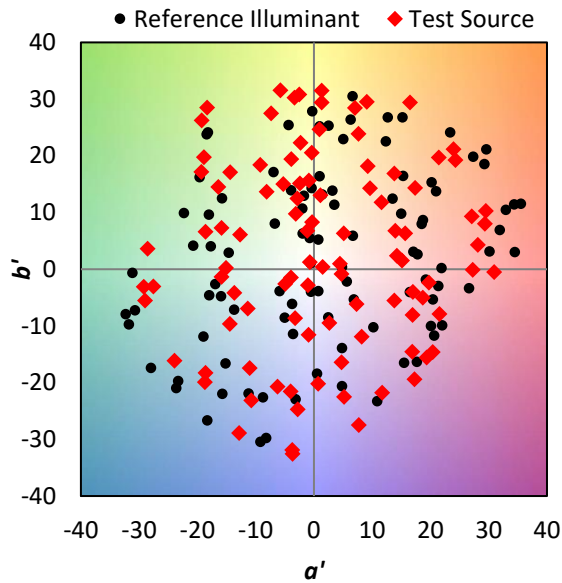
TM-30-18

Summary

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

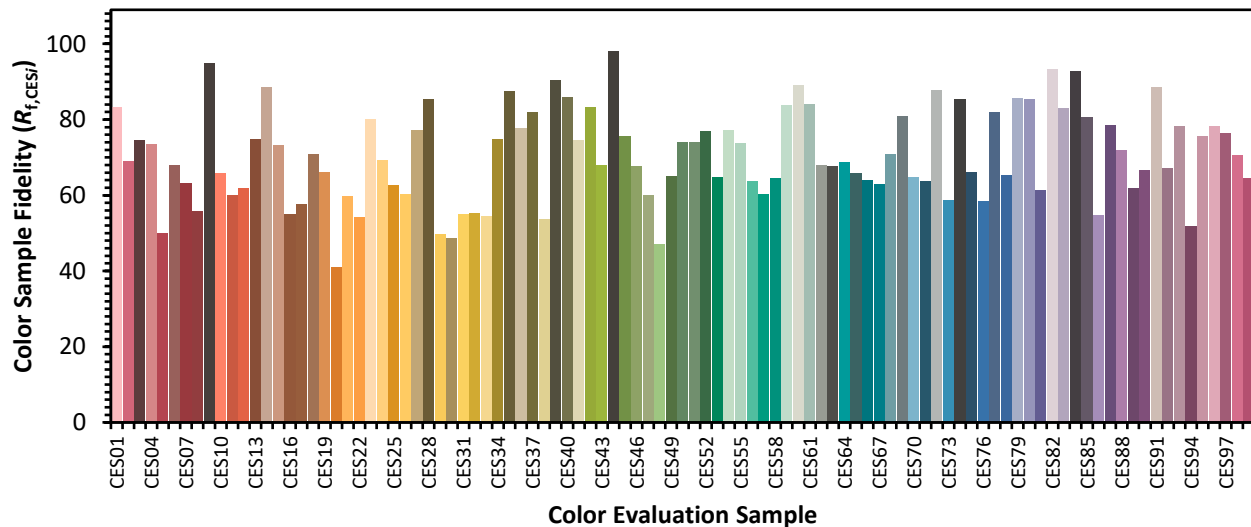


Color Vector Graphics

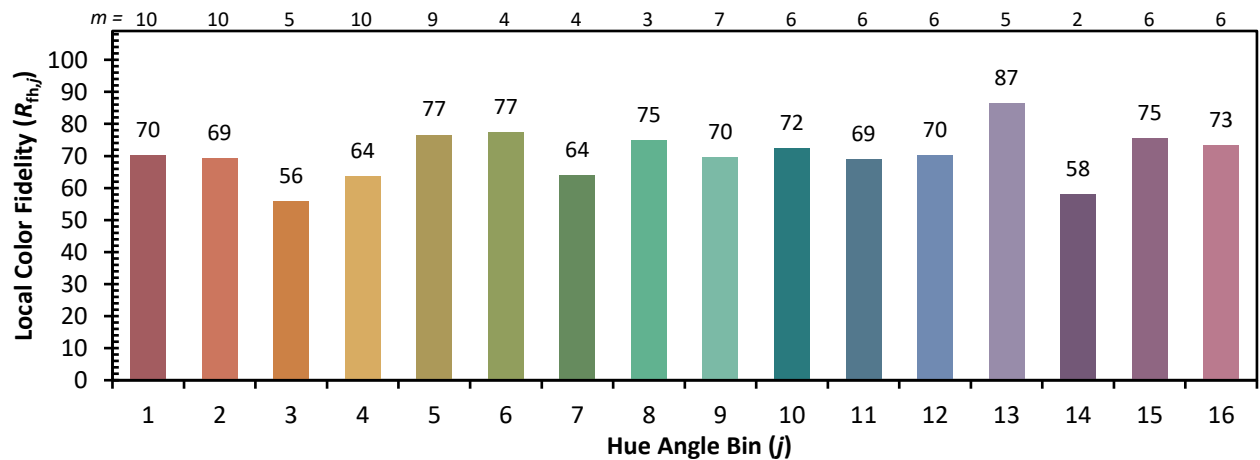
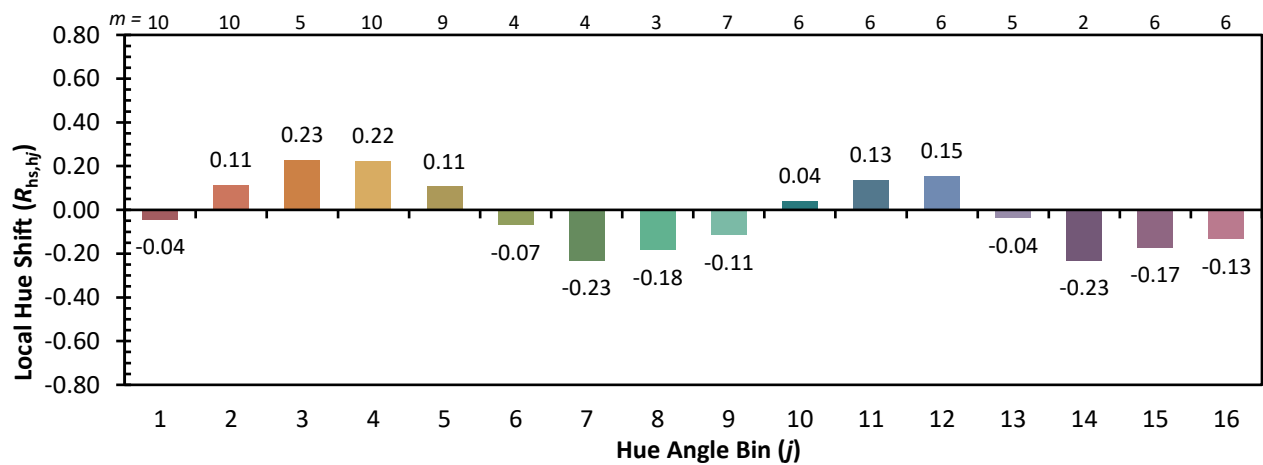
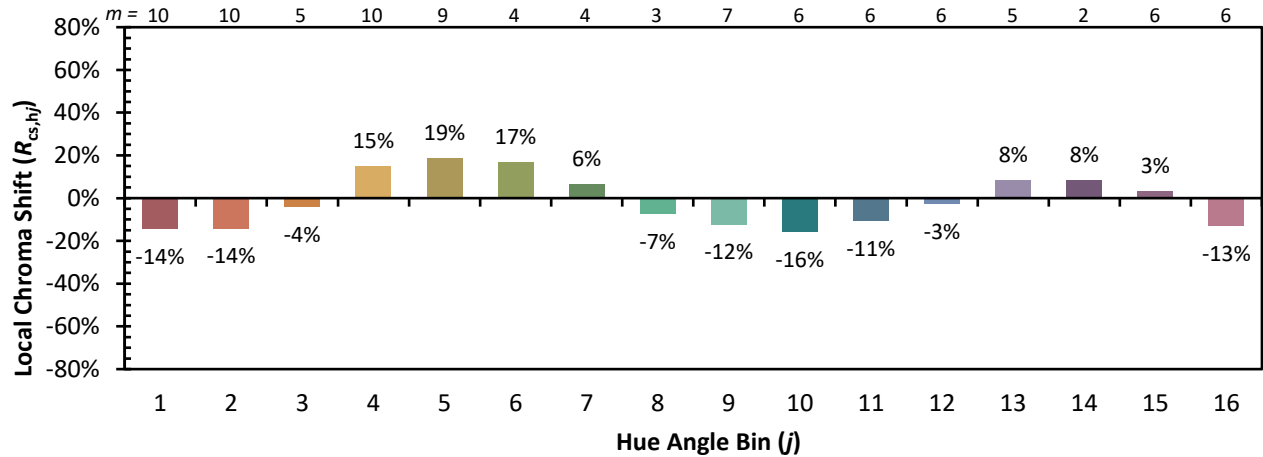


Individual Sample Fidelity Index ($R_{f,i}$)

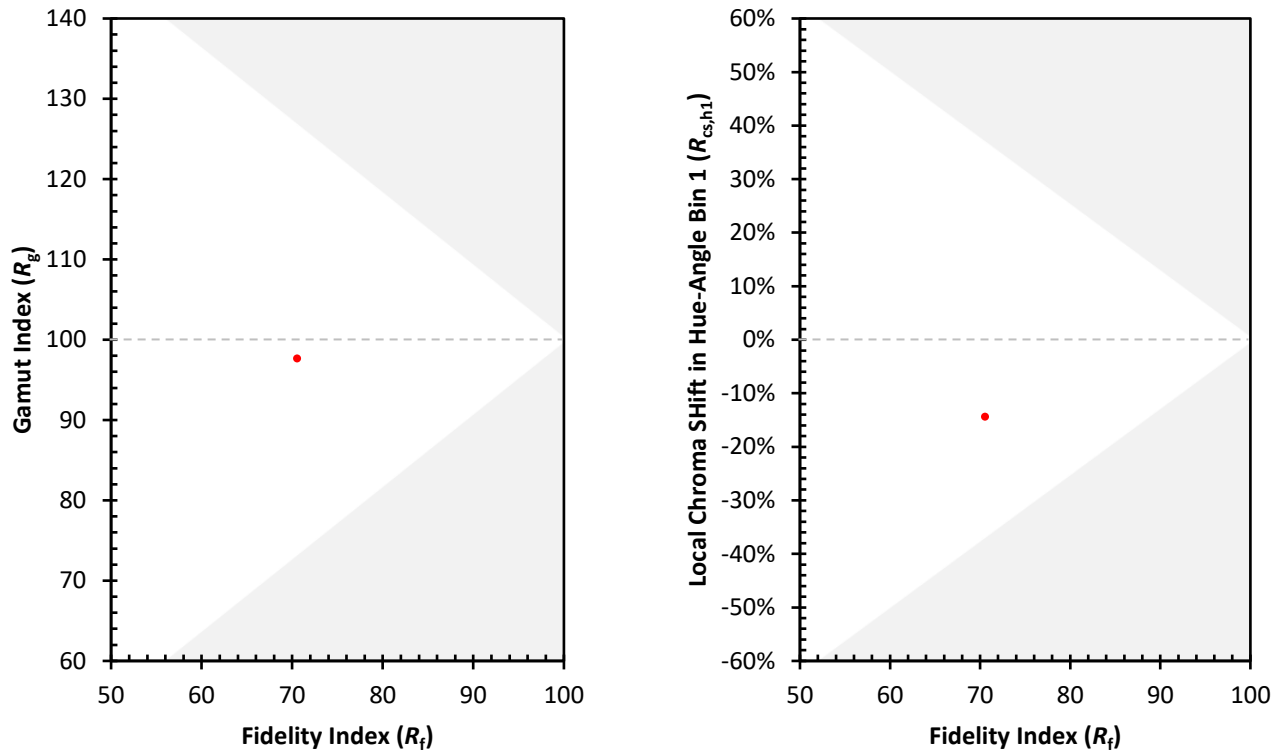
CES01 = 87	CES26 = 60	CES51 = 74	CES76 = 58
CES02 = 65	CES27 = 77	CES52 = 77	CES77 = 82
CES03 = 32	CES28 = 85	CES53 = 65	CES78 = 65
CES04 = 72	CES29 = 50	CES54 = 77	CES79 = 86
CES05 = 52	CES30 = 49	CES55 = 74	CES80 = 85
CES06 = 53	CES31 = 55	CES56 = 64	CES81 = 61
CES07 = 44	CES32 = 55	CES57 = 60	CES82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