

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: P1049675

Luminaire Tested: **GALN-SA9C-750-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049675
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-750-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 9xLight Square PACKAGE
70CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (126) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45186.9 lumens
Efficiency: N/A
Efficacy: 108.3 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

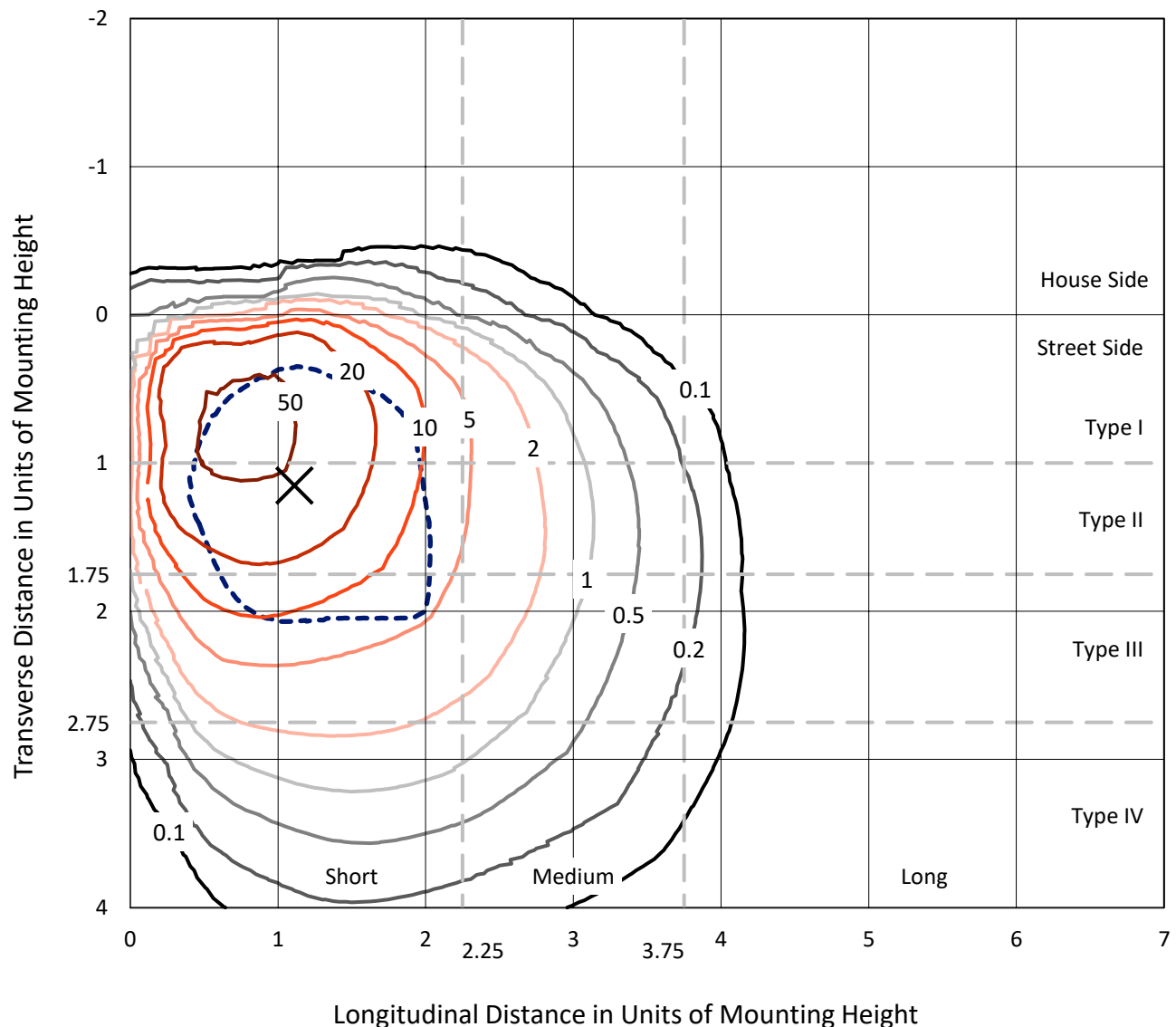
Input Watts (W): 417.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

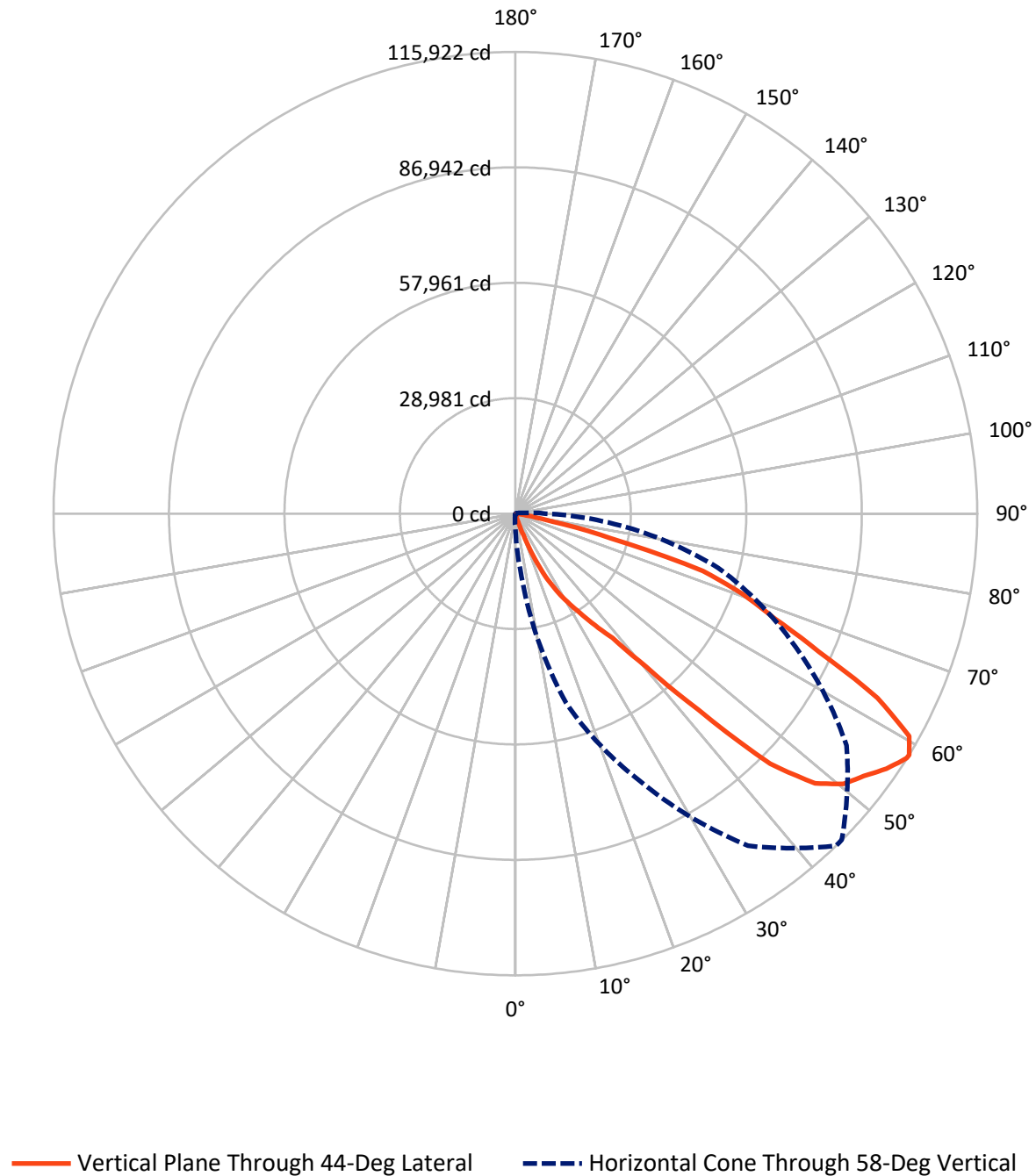
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 78.7 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	308.5	0.0	308.5
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	44878.4	0.0	44878.4
	% Fixture	99.3	0.0	99.3
Total	Lumens	45186.9	0.0	45186.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.7	0.0
10°-20°	99.1	0.2
20°-30°	1070.5	2.4
30°-40°	3165.8	7.0
40°-50°	9435.8	20.9
50°-60°	14972.3	33.1
60°-70°	12488.6	27.6
70°-80°	3851.7	8.5
80°-90°	85.6	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°	45186.9	100.0
0°-180°	45186.9	100.0



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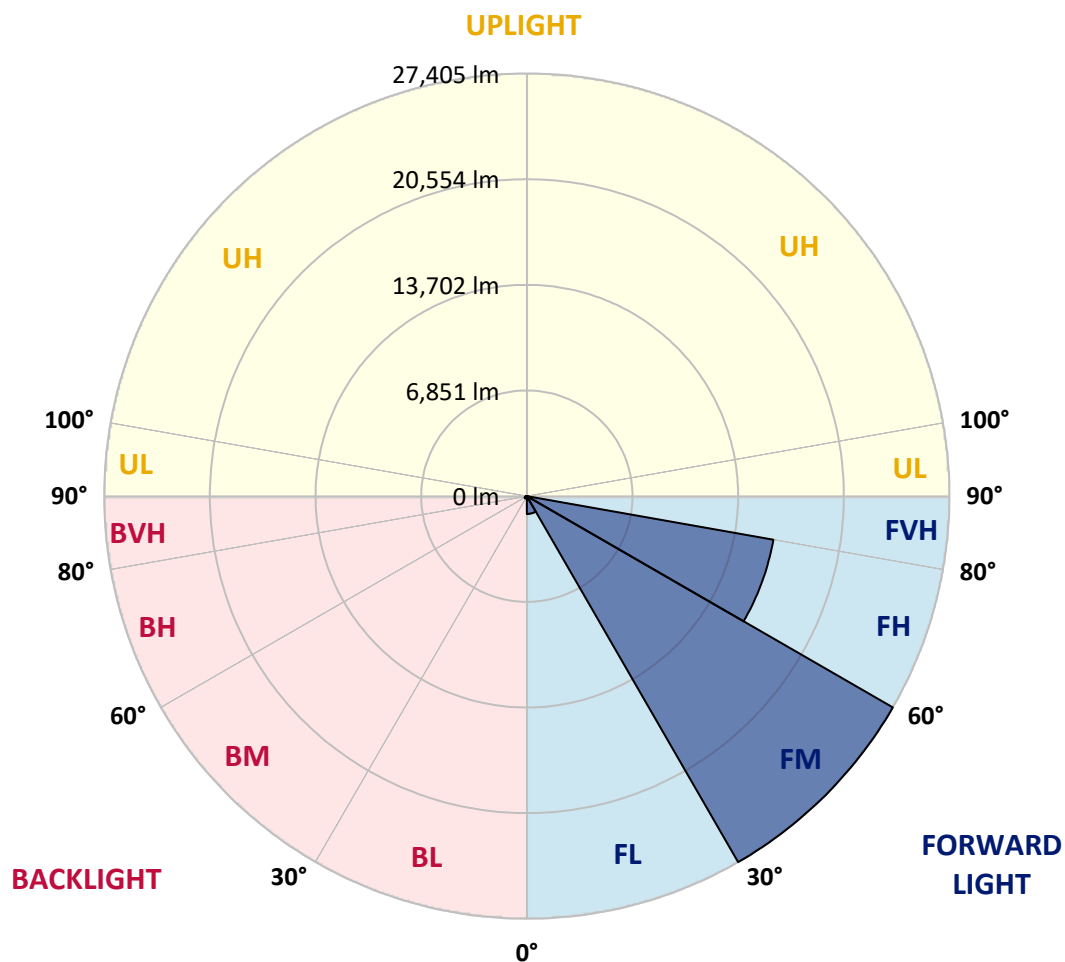
CATALOG NUMBER: GALN-SA9C-750-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1157.1	2.6			
FM	(30°-60°)	27404.9	60.6			
FH	(60°-80°)	16235.0	35.9			G5
FVH	(80°-90°)	81.4	0.2			G1/100
BL	(0°-30°)	30.2	0.1	B0/110		
BM	(30°-60°)	168.9	0.4	B0/220		
BH	(60°-80°)	105.3	0.2	B0/110		G0/110
BVH	(80°-90°)	4.1	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°
0°	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0
2.5°	256.0	256.0	245.8	232.1	218.5	204.8	201.4	194.6	191.2	187.7
5°	266.3	266.3	262.8	252.6	238.9	228.7	228.7	218.5	211.6	204.8
7.5°	273.1	276.5	283.3	279.9	273.1	262.8	262.8	256.0	245.8	228.7
10°	283.3	293.6	307.2	314.0	317.5	317.5	314.0	310.6	293.6	269.7
12.5°	293.6	314.0	348.2	382.3	402.8	430.1	426.7	419.9	375.5	324.3
15°	314.0	344.8	416.4	515.4	669.0	764.6	802.2	768.0	621.3	436.9
17.5°	337.9	389.1	604.2	1078.7	1768.2	2095.9	2293.9	2133.4	1413.2	829.5
20°	361.8	474.5	1123.0	2795.6	4587.7	5659.6	5956.5	5492.3	3526.1	1580.4
22.5°	402.8	665.6	2276.8	5779.0	9885.5	11493.2	11797.0	10312.2	6659.7	3119.9
25°	488.1	966.0	3925.5	9417.8	14753.1	17466.8	17340.5	15394.8	10803.7	4983.7
27.5°	611.0	1406.4	5936.1	13380.9	19415.9	21808.8	22095.5	19689.0	14401.5	7328.8
30°	788.5	1949.1	8093.4	16555.4	23153.7	25741.1	25788.9	23300.5	17620.4	9387.1
32.5°	959.2	2461.1	9981.0	19624.2	26836.9	29673.5	29885.1	26823.2	20023.5	11530.8
35°	1088.9	2795.6	11892.6	22320.8	30550.7	34459.2	34445.5	30810.2	22870.4	13445.7
37.5°	1099.1	3130.2	13623.2	25078.9	35254.5	39630.6	40064.1	36056.7	26311.2	15814.7
40°	1075.2	3505.7	15814.7	29379.9	43730.2	50444.6	50826.9	45774.9	33213.3	19869.9
42.5°	1102.6	4157.6	19371.6	37323.1	57804.0	67447.1	68184.5	62873.1	45901.2	28144.2
45°	1245.9	5383.1	26823.2	50611.8	77865.1	89621.2	89375.4	81725.8	60664.5	40740.0
47.5°	1720.4	8383.5	37869.3	63545.5	90686.2	101155.4	101367.0	92017.4	69280.2	50424.1
50°	2645.5	12827.9	47150.5	70382.7	96199.0	106702.3	106504.3	95700.6	72553.7	55192.7
52.5°	3440.8	16043.4	51806.5	72782.4	96905.6	109443.3	109429.7	96670.0	73062.3	55602.3
55°	3638.8	16285.8	51844.1	72912.1	98489.4	113030.9	113481.5	99056.1	73721.1	53813.7
57.5°	3560.3	14418.6	49679.9	73663.1	101309.0	115806.1	115830.0	101367.0	75393.8	52717.9
58°	3492.0	14125.0	49243.0	74089.8	101793.7	115922.1	115864.1	101472.8	76755.7	52677.0
60°	3109.7	12264.7	47539.7	75178.7	101073.4	113539.5	112996.8	99161.9	76554.3	52257.1
62.5°	2444.1	9568.0	45863.7	73919.1	93352.1	102005.3	102230.6	87791.5	69788.8	49809.6
65°	1945.7	7130.8	42368.2	64839.2	76871.8	83767.0	84606.8	71389.7	58251.2	42177.1
67.5°	1549.7	5154.4	35541.3	51622.2	60828.4	69911.7	70522.7	59937.5	45129.7	32315.5
70°	1259.6	3485.2	24532.8	37753.2	50171.5	60384.6	60422.2	49792.6	33684.3	21173.9
72.5°	1116.2	2413.3	14241.1	27533.2	40682.0	49205.5	48212.1	40405.5	25887.9	12541.2
75°	966.0	1600.9	6984.0	16831.9	24665.9	24833.1	25212.0	18743.5	12940.5	5963.4
77.5°	795.3	1136.7	2751.3	4598.0	7397.0	9469.0	9820.6	7441.4	4304.4	1467.8
80°	546.2	539.3	740.7	1409.8	2116.4	2652.3	2474.8	1915.0	1126.5	563.2
82.5°	235.5	256.0	334.5	402.8	327.7	317.5	303.8	194.6	150.2	116.1
85°	75.1	68.3	71.7	71.7	58.0	44.4	44.4	20.5	0.0	0.0
87.5°	37.5	30.7	30.7	27.3	17.1	6.8	3.4	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°
198.0	0°	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0
184.3	2.5°	180.9	180.9	174.1	167.3	163.8	157.0	153.6	150.2	146.8	143.4
198.0	5°	191.2	187.7	177.5	167.3	157.0	146.8	140.0	133.1	126.3	122.9
218.5	7.5°	208.2	201.4	180.9	163.8	150.2	136.5	129.7	119.5	112.6	102.4
242.4	10°	228.7	215.0	187.7	167.3	146.8	129.7	119.5	109.2	99.0	85.3
276.5	12.5°	256.0	232.1	198.0	163.8	140.0	119.5	109.2	95.6	85.3	75.1
320.9	15°	279.9	249.2	201.4	163.8	133.1	109.2	95.6	81.9	71.7	58.0
402.8	17.5°	314.0	262.8	198.0	153.6	122.9	95.6	81.9	71.7	54.6	34.1
597.4	20°	372.1	273.1	191.2	143.4	105.8	78.5	61.4	47.8	23.9	6.8
897.7	22.5°	464.2	300.4	184.3	129.7	92.2	61.4	41.0	17.1	0.0	0.0
1365.4	25°	641.7	348.2	184.3	122.9	81.9	44.4	13.7	0.0	0.0	0.0
1938.9	27.5°	853.4	413.0	184.3	105.8	64.9	23.9	0.0	0.0	0.0	0.0
2642.0	30°	1068.4	484.7	184.3	92.2	51.2	3.4	0.0	0.0	0.0	0.0
3253.1	32.5°	1273.2	546.2	187.7	78.5	34.1	0.0	0.0	0.0	0.0	0.0
4099.6	35°	1481.5	556.4	184.3	68.3	20.5	0.0	0.0	0.0	0.0	0.0
5137.3	37.5°	1747.7	535.9	174.1	61.4	10.2	0.0	0.0	0.0	0.0	0.0
6758.7	40°	2150.5	546.2	163.8	58.0	3.4	0.0	0.0	0.0	0.0	0.0
9649.9	42.5°	2894.6	590.5	150.2	58.0	0.0	0.0	0.0	0.0	0.0	0.0
15370.9	45°	5004.2	791.9	136.5	61.4	0.0	0.0	0.0	0.0	0.0	0.0
23075.2	47.5°	8277.7	1423.4	133.1	61.4	0.0	0.0	0.0	0.0	0.0	0.0
27796.0	50°	10564.8	1792.1	140.0	64.9	0.0	0.0	0.0	0.0	0.0	0.0
28386.6	52.5°	10547.7	1996.9	146.8	68.3	13.7	0.0	0.0	0.0	0.0	0.0
26164.4	55°	9376.9	2034.4	157.0	75.1	44.4	0.0	0.0	0.0	0.0	0.0
22484.7	57.5°	7837.4	1856.9	180.9	92.2	81.9	0.0	0.0	0.0	0.0	0.0
21907.8	58°	7564.3	1775.0	187.7	95.6	88.8	0.0	0.0	0.0	0.0	0.0
19002.9	60°	6198.9	1447.3	238.9	119.5	119.5	0.0	0.0	0.0	0.0	0.0
15579.2	62.5°	4280.5	1263.0	273.1	153.6	122.9	0.0	0.0	0.0	0.0	0.0
11486.4	65°	3027.8	1140.1	297.0	163.8	99.0	0.0	0.0	0.0	0.0	0.0
8161.7	67.5°	2263.1	1051.4	327.7	167.3	51.2	0.0	0.0	0.0	0.0	0.0
5120.2	70°	1734.1	986.5	402.8	177.5	13.7	0.0	0.0	0.0	0.0	0.0
3051.7	72.5°	1413.2	911.4	488.1	184.3	0.0	0.0	0.0	0.0	0.0	0.0
1829.6	75°	1170.8	822.7	471.1	201.4	0.0	0.0	0.0	0.0	0.0	0.0
976.3	77.5°	778.3	638.3	430.1	201.4	0.0	0.0	0.0	0.0	0.0	0.0
348.2	80°	273.1	252.6	334.5	177.5	0.0	0.0	0.0	0.0	0.0	0.0
71.7	82.5°	41.0	34.1	47.8	61.4	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°
198.0	0°	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0
140.0	2.5°	140.0	140.0	136.5	140.0	140.0	146.8	163.8	187.7	215.0	225.3
119.5	5°	116.1	112.6	109.2	109.2	109.2	119.5	133.1	160.4	191.2	204.8
99.0	7.5°	95.6	92.2	88.8	85.3	85.3	92.2	109.2	140.0	170.7	184.3
81.9	10°	78.5	71.7	68.3	64.9	64.9	71.7	88.8	119.5	153.6	167.3
68.3	12.5°	64.9	54.6	47.8	44.4	41.0	51.2	68.3	95.6	133.1	150.2
51.2	15°	44.4	34.1	23.9	20.5	17.1	27.3	44.4	75.1	112.6	133.1
27.3	17.5°	23.9	10.2	3.4	0.0	0.0	6.8	20.5	54.6	92.2	109.2
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.3	68.3	85.3
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	41.0	58.0
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.1	30.7
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8
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	10.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.7	27.3
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°
198.0	0°	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0
235.5	2.5°	242.4	238.9	232.1	225.3	225.3	225.3	235.5	245.8	256.0	256.0
211.6	5°	225.3	225.3	221.9	215.0	215.0	218.5	232.1	249.2	262.8	266.3
194.6	7.5°	208.2	215.0	208.2	204.8	208.2	211.6	225.3	245.8	266.3	273.1
180.9	10°	198.0	201.4	201.4	198.0	198.0	204.8	218.5	245.8	273.1	283.3
163.8	12.5°	184.3	191.2	187.7	187.7	187.7	194.6	211.6	242.4	279.9	293.6
146.8	15°	170.7	180.9	180.9	177.5	177.5	180.9	204.8	238.9	290.1	314.0
126.3	17.5°	157.0	167.3	170.7	163.8	163.8	170.7	194.6	238.9	297.0	337.9
102.4	20°	129.7	146.8	157.0	146.8	146.8	153.6	177.5	225.3	300.4	361.8
75.1	22.5°	102.4	119.5	133.1	129.7	129.7	133.1	163.8	215.0	303.8	402.8
44.4	25°	75.1	92.2	102.4	109.2	109.2	119.5	150.2	208.2	317.5	488.1
20.5	27.5°	44.4	64.9	78.5	85.3	88.8	102.4	140.0	201.4	341.3	611.0
0.0	30°	20.5	37.5	54.6	68.3	68.3	92.2	129.7	194.6	372.1	788.5
0.0	32.5°	0.0	17.1	27.3	47.8	51.2	75.1	119.5	187.7	416.4	959.2
0.0	35°	0.0	0.0	13.7	37.5	37.5	61.4	109.2	180.9	484.7	1088.9
0.0	37.5°	0.0	0.0	0.0	27.3	30.7	54.6	105.8	177.5	498.4	1099.1
0.0	40°	0.0	0.0	0.0	20.5	23.9	51.2	105.8	180.9	450.6	1075.2
0.0	42.5°	0.0	0.0	0.0	13.7	17.1	51.2	105.8	187.7	406.2	1102.6
0.0	45°	0.0	0.0	0.0	10.2	13.7	54.6	102.4	184.3	382.3	1245.9
0.0	47.5°	0.0	0.0	0.0	13.7	20.5	54.6	99.0	180.9	385.7	1720.4
0.0	50°	0.0	0.0	0.0	17.1	23.9	54.6	102.4	174.1	423.3	2645.5
0.0	52.5°	0.0	0.0	0.0	13.7	20.5	61.4	112.6	170.7	460.8	3440.8
0.0	55°	0.0	0.0	0.0	3.4	10.2	78.5	122.9	170.7	518.9	3638.8
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	88.8	140.0	180.9	614.4	3560.3
0.0	58°	0.0	0.0	0.0	0.0	0.0	88.8	143.4	180.9	621.3	3492.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	88.8	157.0	201.4	669.0	3109.7
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	75.1	187.7	252.6	696.4	2444.1
0.0	65°	0.0	0.0	0.0	0.0	0.0	61.4	221.9	276.5	716.8	1945.7
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	58.0	228.7	279.9	727.1	1549.7
0.0	70°	0.0	0.0	0.0	0.0	0.0	61.4	225.3	300.4	761.2	1259.6
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	68.3	204.8	331.1	761.2	1116.2
0.0	75°	0.0	0.0	0.0	0.0	0.0	71.7	191.2	372.1	692.9	966.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	68.3	187.7	433.5	617.8	795.3
0.0	80°	6.8	10.2	10.2	6.8	6.8	58.0	184.3	440.3	525.7	546.2
3.4	82.5°	20.5	27.3	23.9	17.1	17.1	51.2	163.8	368.7	273.1	235.5
20.5	85°	37.5	44.4	44.4	37.5	37.5	47.8	102.4	133.1	92.2	75.1
37.5	87.5°	51.2	58.0	58.0	51.2	51.2	47.8	44.4	41.0	37.5	37.5
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: SP1-2407-184-6

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-750-U-5WQ

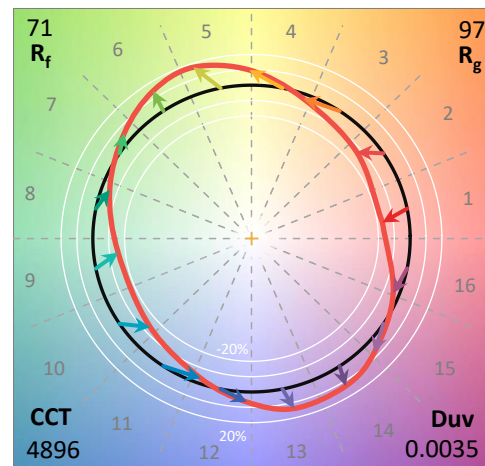
Data in this report applies to families of products including GSS-SB1A-750-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-6
 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-750-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K):	4896	CRI (Ra):	70.2		
CIE u':	0.2101	R1:	68.1	R9:	-35.1
CIE v':	0.4901	R2:	73.9	R10:	39.3
Duv:	0.0035	R3:	79.4	R11:	71.1
CIE x:	0.3489	R4:	72.1	R12:	43.8
CIE y:	0.3618	R5:	69.2	R13:	68.1
CIE z:	0.2893	R6:	65.7	R14:	88.4
Peak Wavelength (nm):	443	R7:	78.1	R15:	59.7
Dominant Wavelength (nm):	570	R8:	55.3		
Purity:	13.25435				
Rf:	70.7				
Rg:	96.8				



Test Conditions

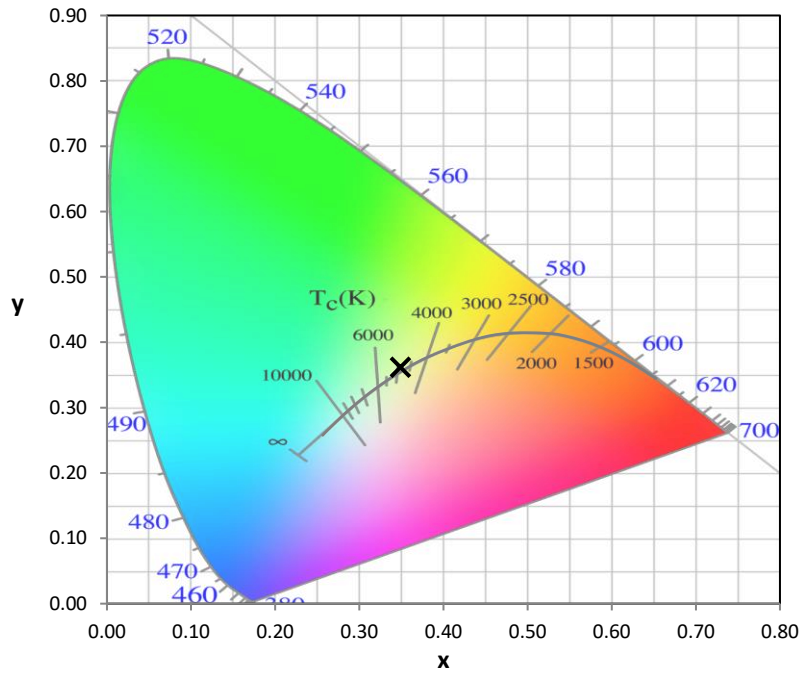
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-6

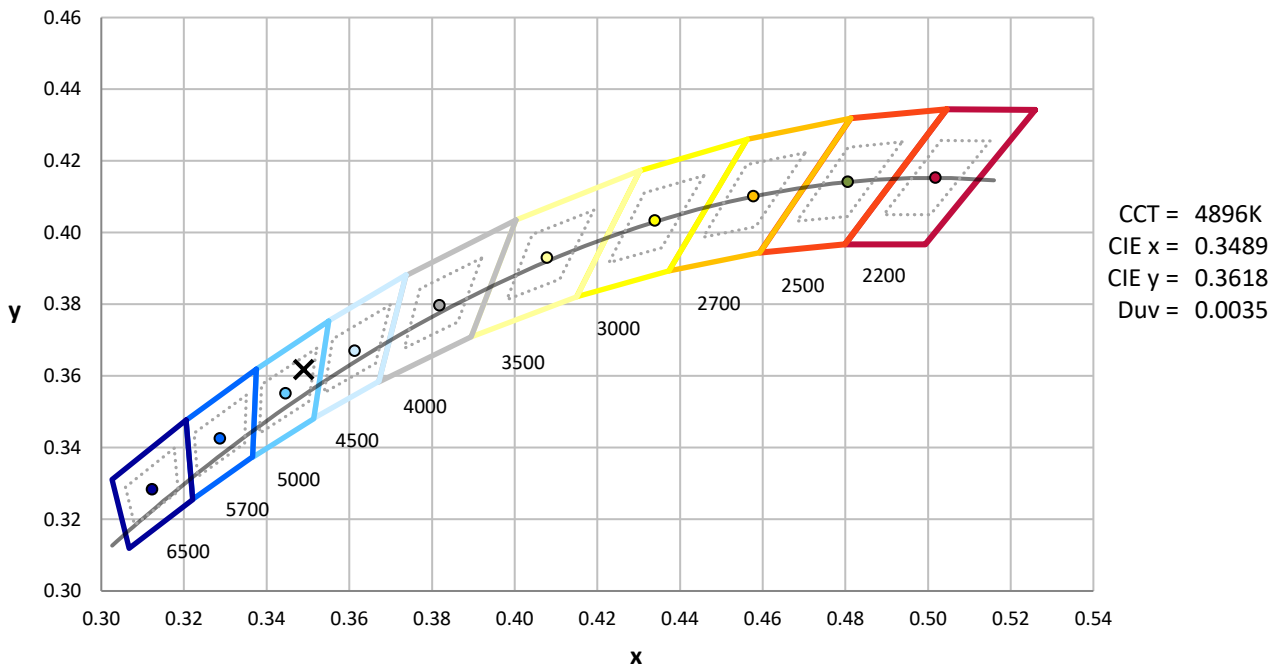
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



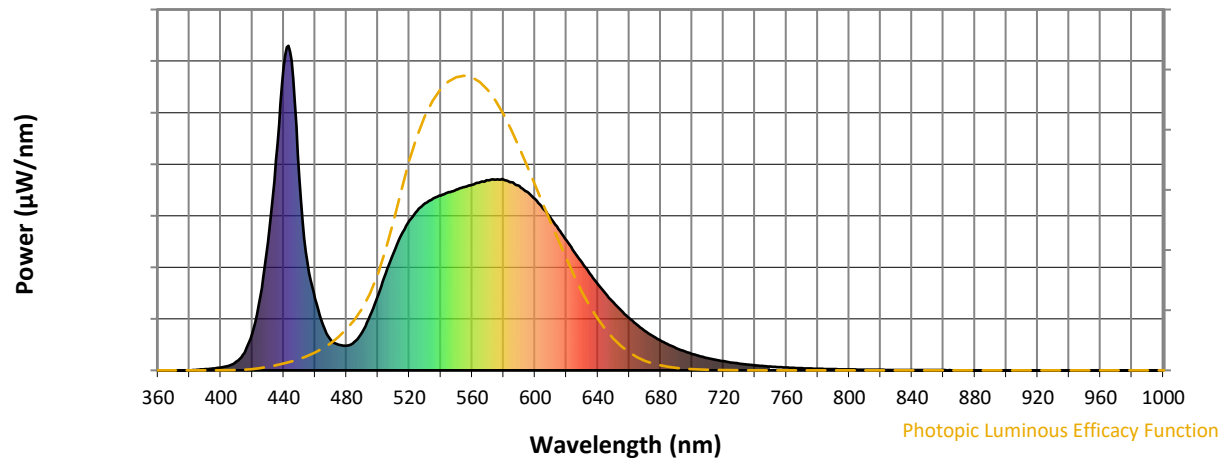
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-6

Photopic Flux vs. Wavelength

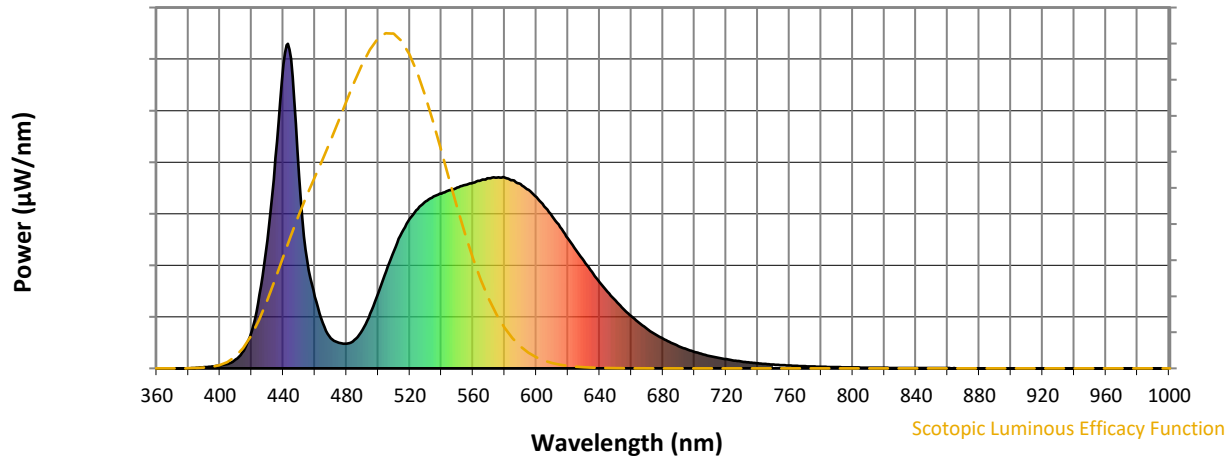


Photopic Lumens: NR

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	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-6

Scotopic Flux vs. Wavelength



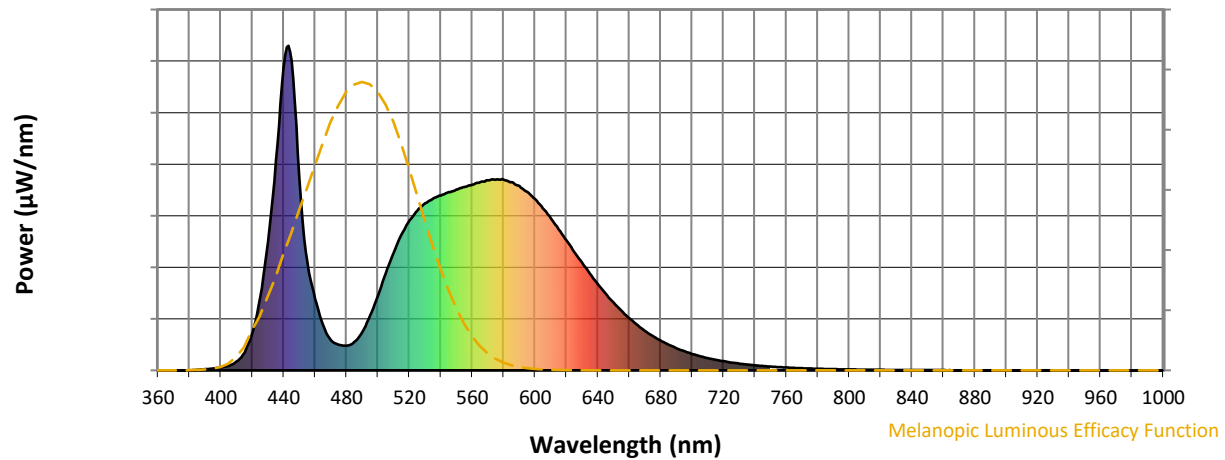
Scotopic Lumens: NR

S/P: 1.7

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	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.37

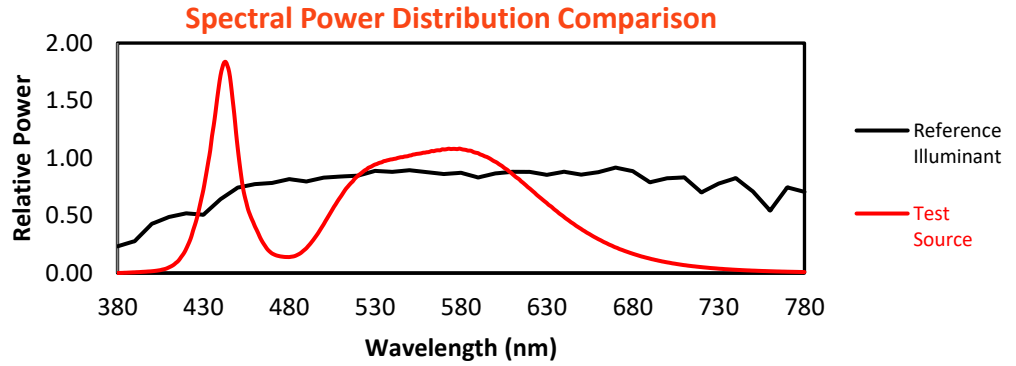
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-6

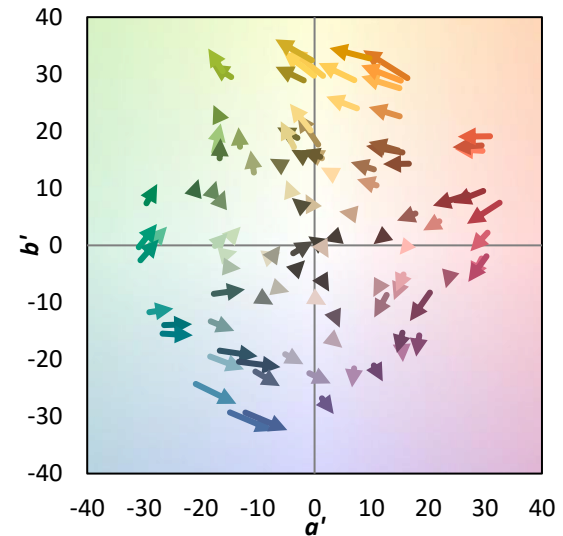
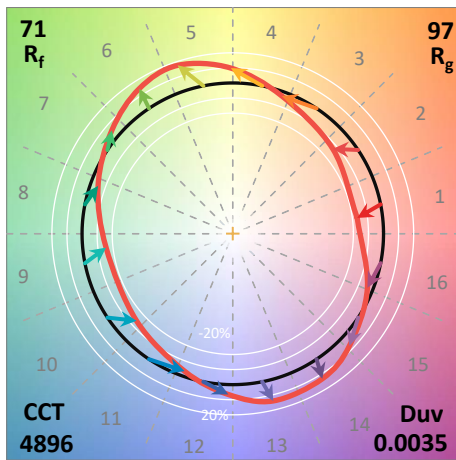
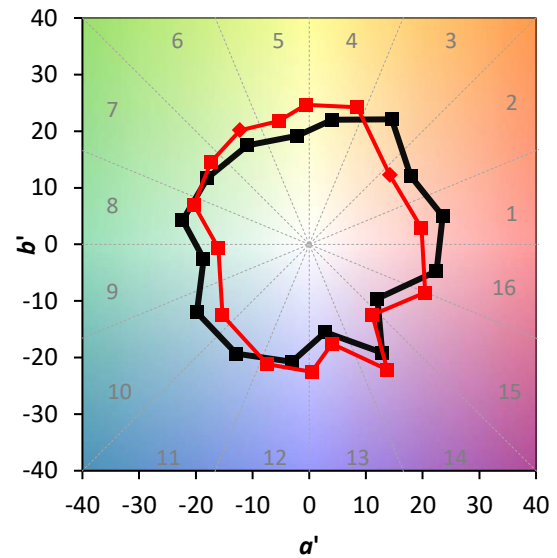
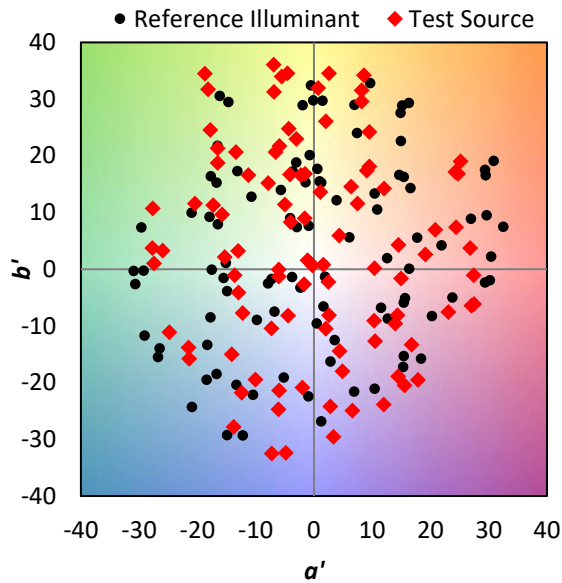
TM-30-18

Summary

$R_f = 70.7$
 $R_g = 96.8$
 CIE $R_a = 70.2$
 $R_g = -35.1$

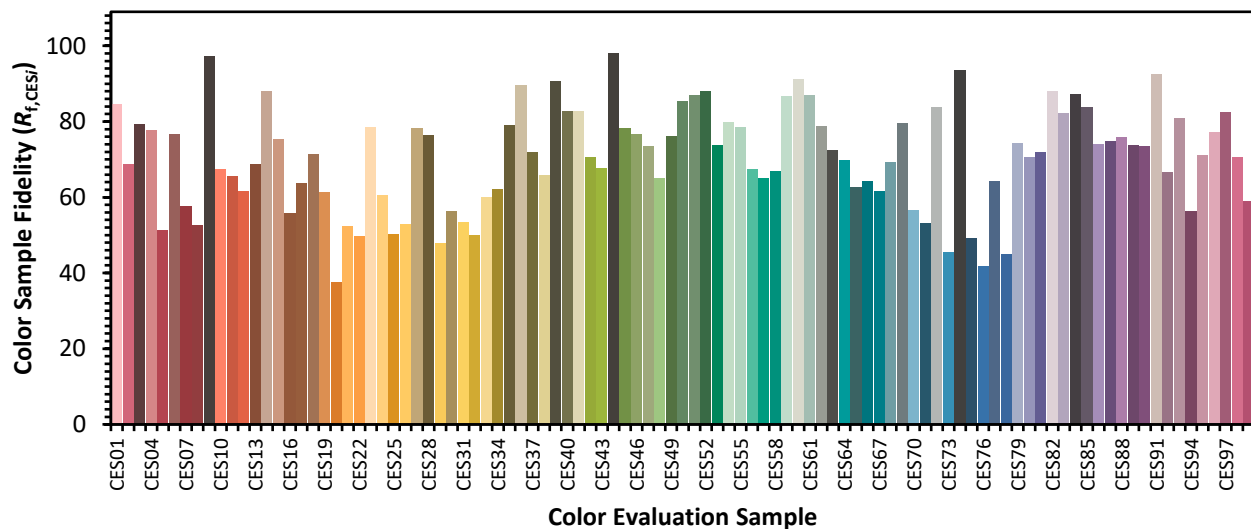


Color Vector Graphics

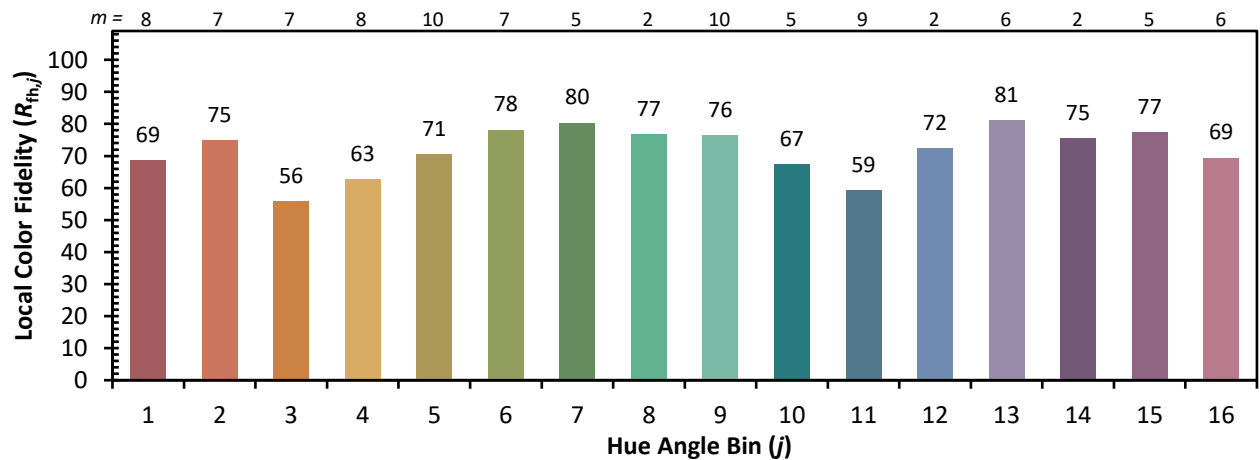
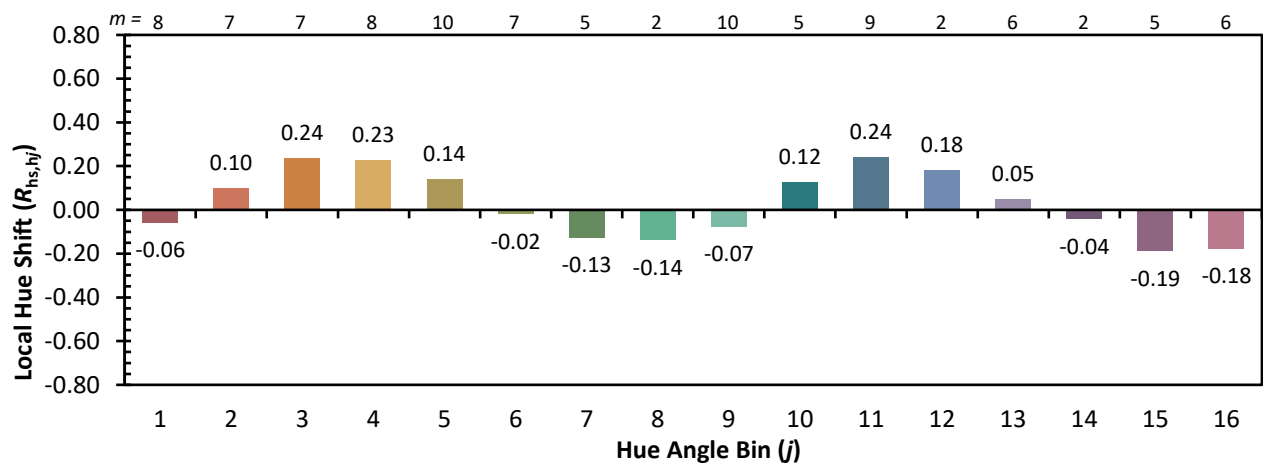
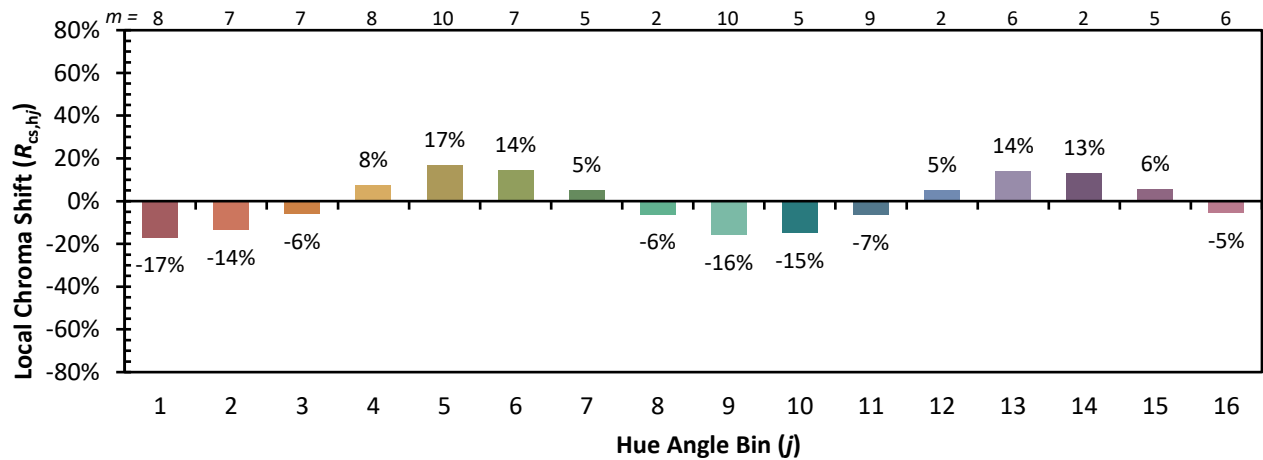


Individual Sample Fidelity Index ($R_{f,i}$)

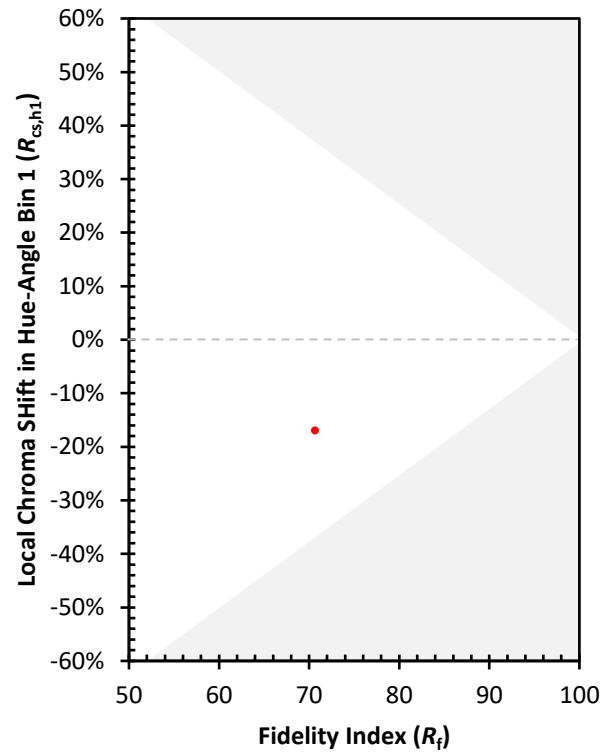
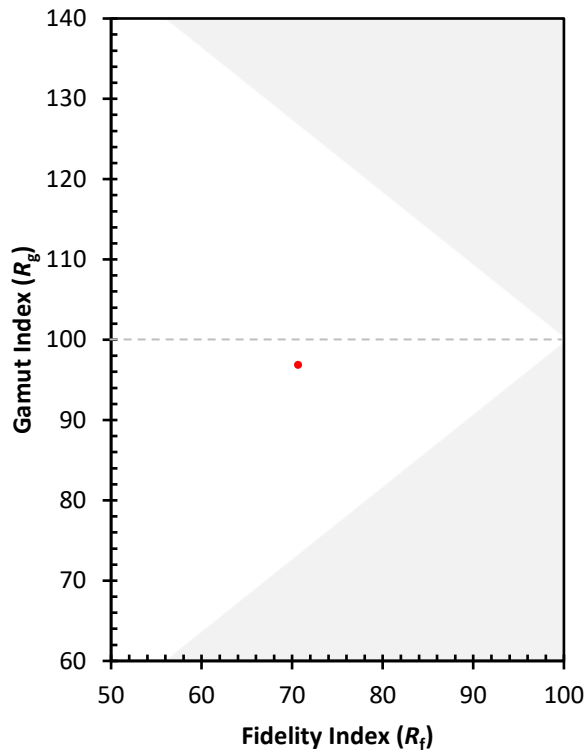
CES01 = 85	CES26 = 53	CES51 = 87	CES76 = 42
CES02 = 59	CES27 = 78	CES52 = 88	CES77 = 64
CES03 = 30	CES28 = 76	CES53 = 74	CES78 = 45
CES04 = 69	CES29 = 48	CES54 = 80	CES79 = 74
CES05 = 46	CES30 = 56	CES55 = 79	CES80 = 71
CES06 = 50	CES31 = 54	CES56 = 68	CES81 = 72
CES07 = 39	CES32 = 50	CES57 = 65	CES82 = 88
CES08 = 38	CES33 = 60	CES58 = 67	CES83 = 82
CES09 = 29	CES34 = 62	CES59 = 87	CES84 = 87
CES10 = 72	CES35 = 79	CES60 = 91	CES85 = 84
CES11 = 56	CES36 = 90	CES61 = 87	CES86 = 74
CES12 = 61	CES37 = 72	CES62 = 79	CES87 = 75
CES13 = 41	CES38 = 66	CES63 = 72	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 70	CES89 = 74
CES15 = 70	CES40 = 83	CES65 = 63	CES90 = 73
CES16 = 46	CES41 = 83	CES66 = 64	CES91 = 92
CES17 = 49	CES42 = 70	CES67 = 62	CES92 = 67
CES18 = 55	CES43 = 68	CES68 = 69	CES93 = 81
CES19 = 71	CES44 = 98	CES69 = 80	CES94 = 56
CES20 = 64	CES45 = 78	CES70 = 56	CES95 = 71
CES21 = 85	CES46 = 77	CES71 = 53	CES96 = 77
CES22 = 77	CES47 = 73	CES72 = 84	CES97 = 82
CES23 = 91	CES48 = 65	CES73 = 46	CES98 = 71
CES24 = 90	CES49 = 76	CES74 = 94	CES99 = 59
CES25 = 71	CES50 = 85	CES75 = 49	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)