

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: P1049671

Luminaire Tested: **GALN-SA8C-750-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049671
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-750-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 8xLight Square PACKAGE
70CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40407.5 lumens
Efficiency: N/A
Efficacy: 108.4 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

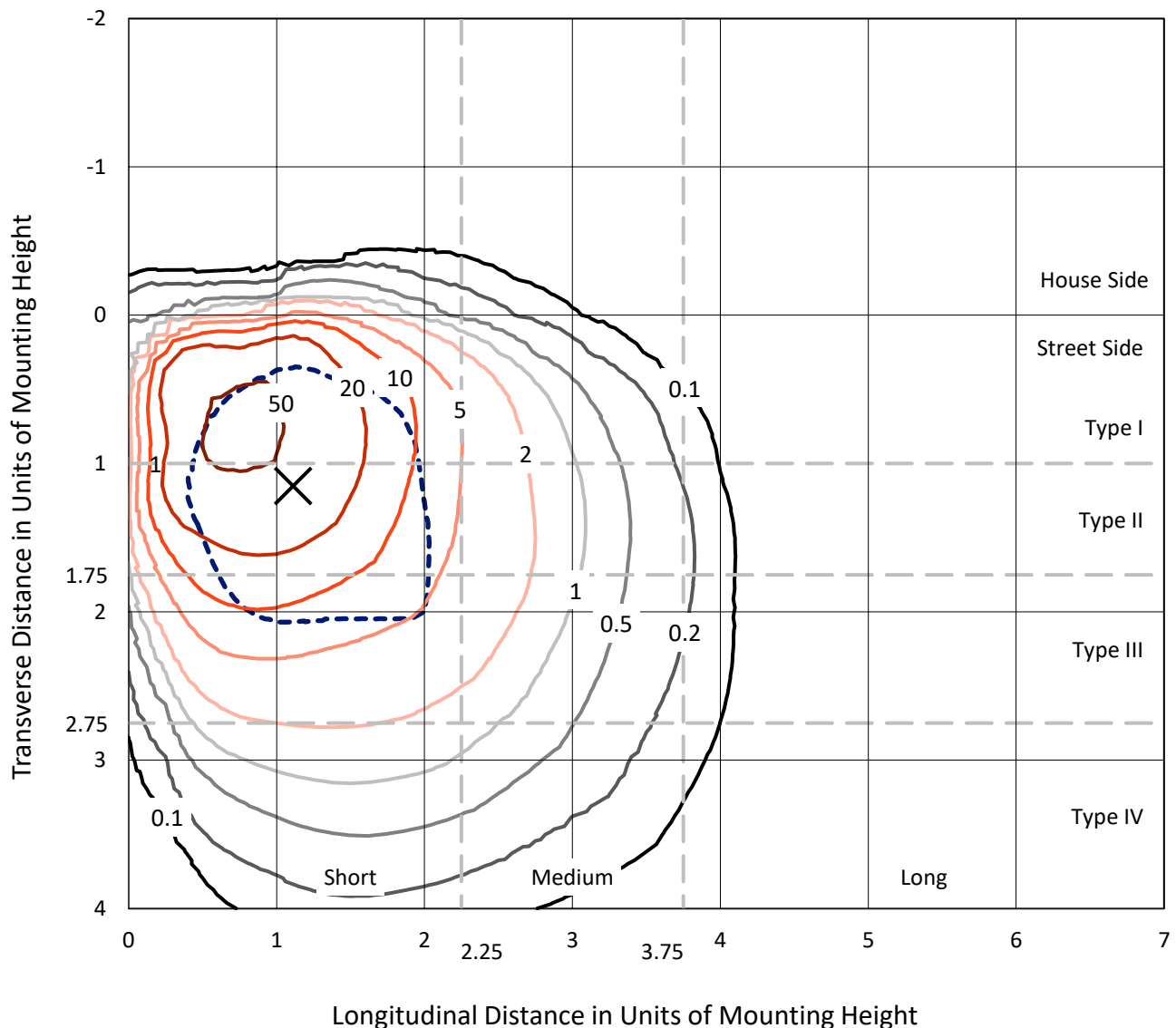
Input Watts (W): 372.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

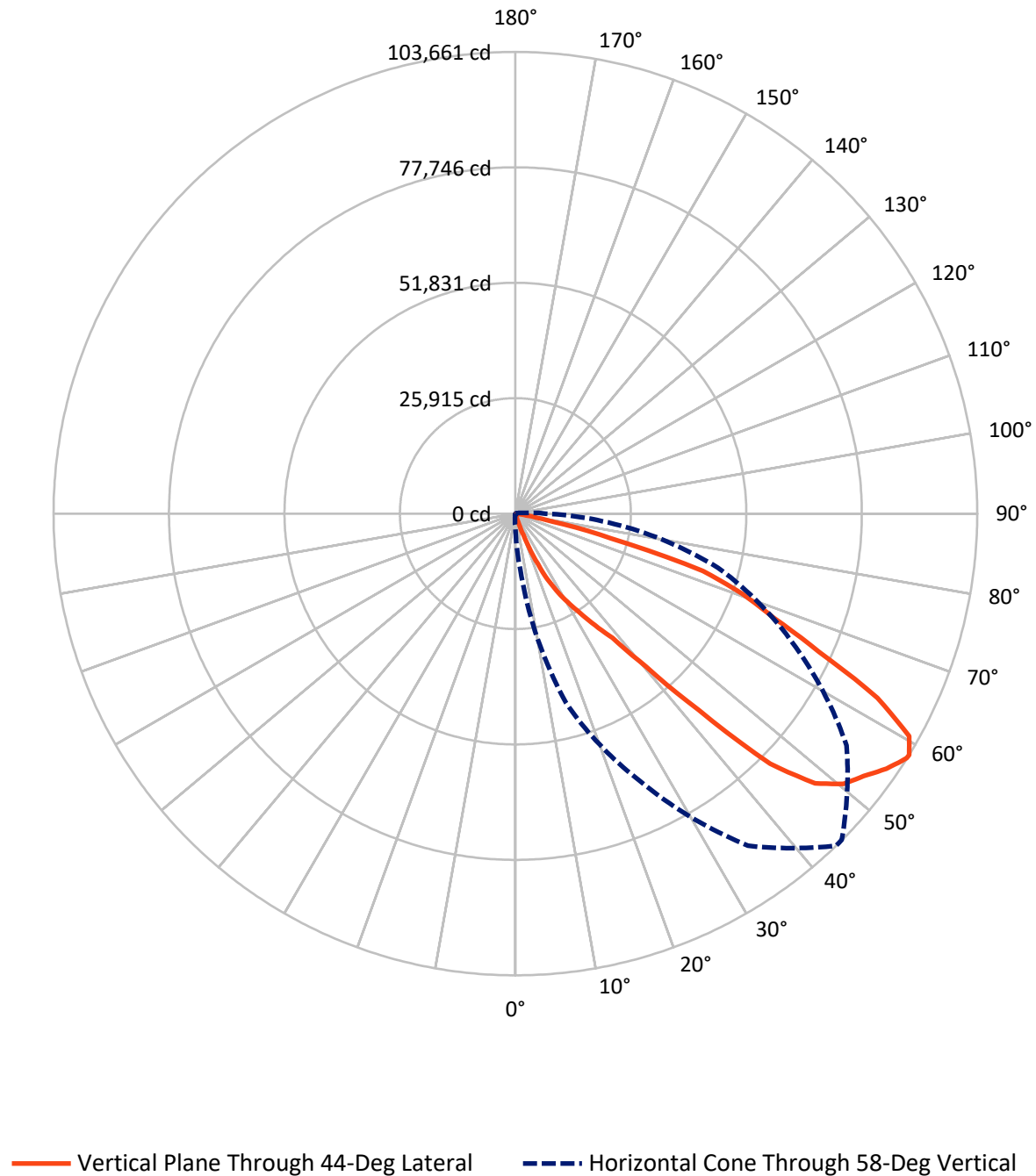
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 70.3 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	275.9	0.0	275.9
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	40131.6	0.0	40131.6
	% Fixture	99.3	0.0	99.3
Total	Lumens	40407.5	0.0	40407.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.8	0.0
10°-20°	88.6	0.2
20°-30°	957.3	2.4
30°-40°	2830.9	7.0
40°-50°	8437.7	20.9
50°-60°	13388.6	33.1
60°-70°	11167.7	27.6
70°-80°	3444.3	8.5
80°-90°	76.5	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°	40407.5	100.0
0°-180°	40407.5	100.0



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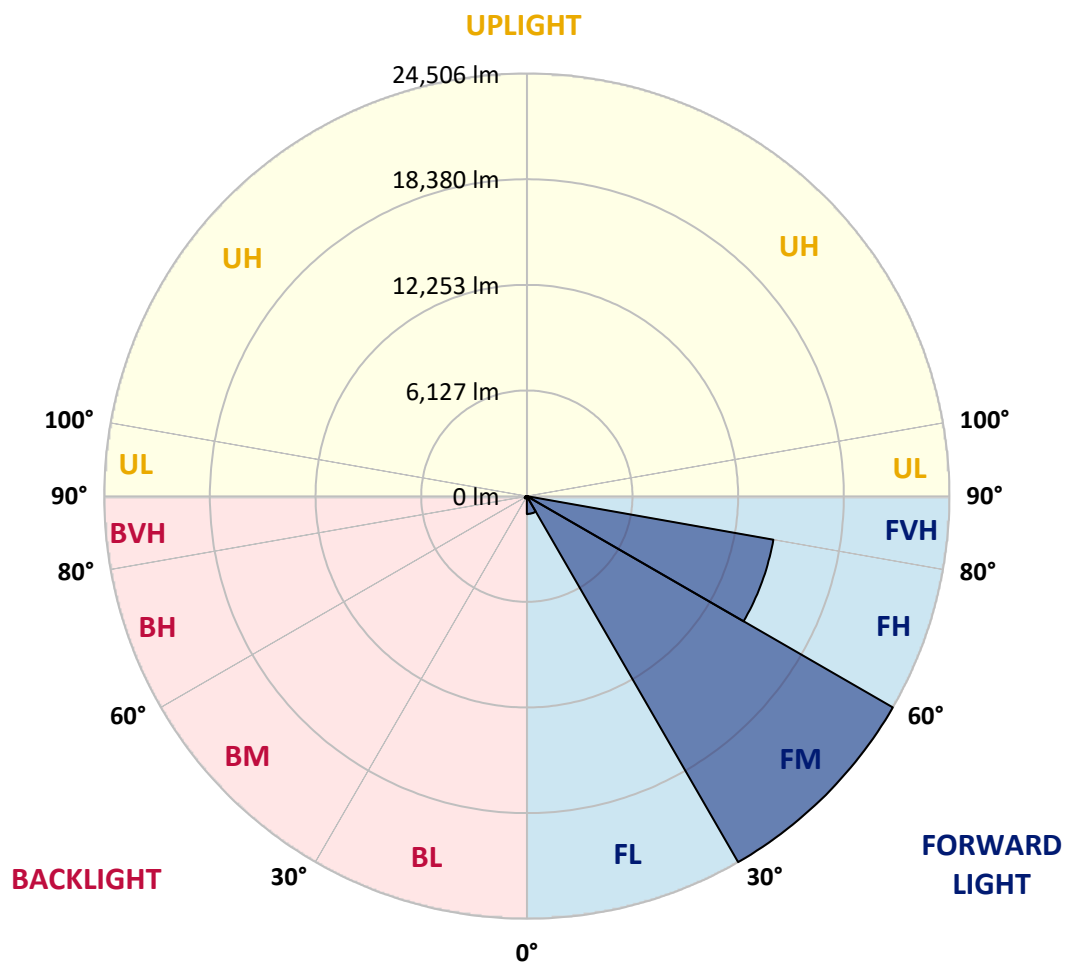
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1034.7	2.6			
FM	(30°-60°)	24506.3	60.6			
FH	(60°-80°)	14517.8	35.9			G5
FVH	(80°-90°)	72.8	0.2			G1/100
BL	(0°-30°)	27.0	0.1	B0/110		
BM	(30°-60°)	151.0	0.4	B0/220		
BH	(60°-80°)	94.2	0.2	B0/110		G0/110
BVH	(80°-90°)	3.7	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°	177.0	177.0	177.0	177.0	177.0	177.0	177.0	177.0	177.0	177.0
2.5°	228.9	228.9	219.8	207.6	195.4	183.1	180.1	174.0	170.9	167.9
5°	238.1	238.1	235.0	225.9	213.7	204.5	204.5	195.4	189.3	183.1
7.5°	244.2	247.2	253.4	250.3	244.2	235.0	235.0	228.9	219.8	204.5
10°	253.4	262.5	274.7	280.8	283.9	283.9	280.8	277.8	262.5	241.1
12.5°	262.5	280.8	311.3	341.9	360.2	384.6	381.6	375.5	335.8	290.0
15°	280.8	308.3	372.4	460.9	598.3	683.7	717.3	686.8	555.5	390.7
17.5°	302.2	348.0	540.3	964.6	1581.2	1874.2	2051.2	1907.8	1263.7	741.7
20°	323.6	424.3	1004.3	2500.0	4102.5	5061.0	5326.5	4911.4	3153.2	1413.3
22.5°	360.2	595.2	2036.0	5167.8	8839.9	10277.6	10549.2	9221.4	5955.3	2789.9
25°	436.5	863.8	3510.3	8421.7	13192.7	15619.4	15506.4	13766.5	9661.0	4456.6
27.5°	546.4	1257.6	5308.2	11965.6	17362.3	19502.1	19758.5	17606.5	12878.3	6553.6
30°	705.1	1742.9	7237.3	14804.4	20704.7	23018.5	23061.2	20836.0	15756.7	8394.2
32.5°	857.7	2200.8	8925.3	17548.5	23998.3	26534.9	26724.2	23986.1	17905.6	10311.2
35°	973.7	2500.0	10634.7	19959.9	27319.4	30814.4	30802.2	27551.4	20451.4	12023.6
37.5°	982.9	2799.1	12182.3	22426.3	31525.6	35438.9	35826.5	32243.0	23528.2	14142.0
40°	961.5	3134.9	14142.0	26272.4	39104.9	45109.0	45450.9	40933.3	29700.3	17768.3
42.5°	985.9	3717.9	17322.6	33375.4	51690.1	60313.3	60972.6	56223.0	41046.2	25167.4
45°	1114.1	4813.7	23986.1	45258.6	69629.3	80141.9	79922.2	73081.6	54248.0	36430.9
47.5°	1538.4	7496.8	33863.8	56824.3	81094.3	90456.1	90645.4	82284.7	61952.4	45090.7
50°	2365.6	11471.1	42163.4	62938.4	86024.0	95416.4	95239.3	85578.3	64879.7	49355.0
52.5°	3076.9	14346.5	46327.0	65084.2	86655.8	97867.5	97855.3	86445.2	65334.5	49721.3
55°	3253.9	14563.2	46360.5	65200.2	88072.2	101075.6	101478.5	88578.9	65923.6	48121.8
57.5°	3183.7	12893.5	44425.3	65871.8	90593.5	103557.2	103578.6	90645.4	67419.3	47142.0
58°	3122.7	12631.0	44034.6	66253.3	91026.9	103661.0	103609.1	90740.0	68637.3	47105.3
60°	2780.8	10967.4	42511.4	67227.0	90382.9	101530.4	101045.1	88673.5	68457.2	46729.9
62.5°	2185.6	8556.0	41012.6	66100.7	83478.3	91216.2	91417.7	78505.8	62407.2	44541.3
65°	1739.9	6376.6	37886.9	57981.2	68741.1	74907.0	75657.9	63838.8	52090.0	37716.0
67.5°	1385.8	4609.2	31782.1	46162.1	54394.6	62517.1	63063.5	53597.9	40356.4	28897.5
70°	1126.4	3116.5	21937.9	33760.0	44864.8	53997.7	54031.3	44526.0	30121.5	18934.3
72.5°	998.1	2158.1	12734.8	24621.0	36379.0	44001.0	43112.7	36131.8	23149.7	11214.7
75°	863.8	1431.6	6245.3	15051.6	22057.0	22206.5	22545.4	16761.0	11571.8	5332.6
77.5°	711.2	1016.5	2460.3	4111.6	6614.6	8467.5	8781.9	6654.3	3849.1	1312.6
80°	488.4	482.3	662.4	1260.7	1892.5	2371.7	2213.0	1712.4	1007.3	503.7
82.5°	210.6	228.9	299.1	360.2	293.0	283.9	271.7	174.0	134.3	103.8
85°	67.2	61.0	64.1	64.1	51.9	39.7	39.7	18.3	0.0	0.0
87.5°	33.6	27.5	27.5	24.4	15.3	6.1	3.1	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°
177.0	0°	177.0	177.0	177.0	177.0	177.0	177.0	177.0	177.0	177.0	177.0
164.8	2.5°	161.8	161.8	155.7	149.6	146.5	140.4	137.4	134.3	131.3	128.2
177.0	5°	170.9	167.9	158.7	149.6	140.4	131.3	125.2	119.0	112.9	109.9
195.4	7.5°	186.2	180.1	161.8	146.5	134.3	122.1	116.0	106.8	100.7	91.6
216.7	10°	204.5	192.3	167.9	149.6	131.3	116.0	106.8	97.7	88.5	76.3
247.2	12.5°	228.9	207.6	177.0	146.5	125.2	106.8	97.7	85.5	76.3	67.2
286.9	15°	250.3	222.8	180.1	146.5	119.0	97.7	85.5	73.3	64.1	51.9
360.2	17.5°	280.8	235.0	177.0	137.4	109.9	85.5	73.3	64.1	48.8	30.5
534.2	20°	332.7	244.2	170.9	128.2	94.6	70.2	54.9	42.7	21.4	6.1
802.8	22.5°	415.1	268.6	164.8	116.0	82.4	54.9	36.6	15.3	0.0	0.0
1221.0	25°	573.9	311.3	164.8	109.9	73.3	39.7	12.2	0.0	0.0	0.0
1733.8	27.5°	763.1	369.3	164.8	94.6	58.0	21.4	0.0	0.0	0.0	0.0
2362.6	30°	955.4	433.4	164.8	82.4	45.8	3.1	0.0	0.0	0.0	0.0
2909.0	32.5°	1138.6	488.4	167.9	70.2	30.5	0.0	0.0	0.0	0.0	0.0
3666.0	35°	1324.8	497.5	164.8	61.0	18.3	0.0	0.0	0.0	0.0	0.0
4593.9	37.5°	1562.9	479.2	155.7	54.9	9.2	0.0	0.0	0.0	0.0	0.0
6043.8	40°	1923.0	488.4	146.5	51.9	3.1	0.0	0.0	0.0	0.0	0.0
8629.3	42.5°	2588.5	528.1	134.3	51.9	0.0	0.0	0.0	0.0	0.0	0.0
13745.2	45°	4474.9	708.2	122.1	54.9	0.0	0.0	0.0	0.0	0.0	0.0
20634.5	47.5°	7402.2	1272.9	119.0	54.9	0.0	0.0	0.0	0.0	0.0	0.0
24856.1	50°	9447.3	1602.5	125.2	58.0	0.0	0.0	0.0	0.0	0.0	0.0
25384.1	52.5°	9432.1	1785.7	131.3	61.0	12.2	0.0	0.0	0.0	0.0	0.0
23397.0	55°	8385.1	1819.3	140.4	67.2	39.7	0.0	0.0	0.0	0.0	0.0
20106.5	57.5°	7008.4	1660.5	161.8	82.4	73.3	0.0	0.0	0.0	0.0	0.0
19590.6	58°	6764.2	1587.3	167.9	85.5	79.4	0.0	0.0	0.0	0.0	0.0
16993.0	60°	5543.2	1294.2	213.7	106.8	106.8	0.0	0.0	0.0	0.0	0.0
13931.4	62.5°	3827.8	1129.4	244.2	137.4	109.9	0.0	0.0	0.0	0.0	0.0
10271.5	65°	2707.5	1019.5	265.6	146.5	88.5	0.0	0.0	0.0	0.0	0.0
7298.4	67.5°	2023.8	940.2	293.0	149.6	45.8	0.0	0.0	0.0	0.0	0.0
4578.7	70°	1550.6	882.2	360.2	158.7	12.2	0.0	0.0	0.0	0.0	0.0
2728.9	72.5°	1263.7	815.0	436.5	164.8	0.0	0.0	0.0	0.0	0.0	0.0
1636.1	75°	1047.0	735.6	421.2	180.1	0.0	0.0	0.0	0.0	0.0	0.0
873.0	77.5°	696.0	570.8	384.6	180.1	0.0	0.0	0.0	0.0	0.0	0.0
311.3	80°	244.2	225.9	299.1	158.7	0.0	0.0	0.0	0.0	0.0	0.0
64.1	82.5°	36.6	30.5	42.7	54.9	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
177.0	0°	177.0	177.0	177.0	177.0	177.0	177.0	177.0	177.0	177.0	177.0
125.2	2.5°	125.2	125.2	122.1	125.2	125.2	131.3	146.5	167.9	192.3	201.5
106.8	5°	103.8	100.7	97.7	97.7	97.7	106.8	119.0	143.5	170.9	183.1
88.5	7.5°	85.5	82.4	79.4	76.3	76.3	82.4	97.7	125.2	152.6	164.8
73.3	10°	70.2	64.1	61.0	58.0	58.0	64.1	79.4	106.8	137.4	149.6
61.0	12.5°	58.0	48.8	42.7	39.7	36.6	45.8	61.0	85.5	119.0	134.3
45.8	15°	39.7	30.5	21.4	18.3	15.3	24.4	39.7	67.2	100.7	119.0
24.4	17.5°	21.4	9.2	3.1	0.0	0.0	6.1	18.3	48.8	82.4	97.7
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.4	61.0	76.3
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	36.6	51.9
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.3	27.5
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1
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	9.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.2	24.4
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°
177.0	0°	177.0	177.0	177.0	177.0	177.0	177.0	177.0	177.0	177.0	177.0
210.6	2.5°	216.7	213.7	207.6	201.5	201.5	201.5	210.6	219.8	228.9	228.9
189.3	5°	201.5	201.5	198.4	192.3	192.3	195.4	207.6	222.8	235.0	238.1
174.0	7.5°	186.2	192.3	186.2	183.1	186.2	189.3	201.5	219.8	238.1	244.2
161.8	10°	177.0	180.1	180.1	177.0	177.0	183.1	195.4	219.8	244.2	253.4
146.5	12.5°	164.8	170.9	167.9	167.9	167.9	174.0	189.3	216.7	250.3	262.5
131.3	15°	152.6	161.8	161.8	158.7	158.7	161.8	183.1	213.7	259.5	280.8
112.9	17.5°	140.4	149.6	152.6	146.5	146.5	152.6	174.0	213.7	265.6	302.2
91.6	20°	116.0	131.3	140.4	131.3	131.3	137.4	158.7	201.5	268.6	323.6
67.2	22.5°	91.6	106.8	119.0	116.0	116.0	119.0	146.5	192.3	271.7	360.2
39.7	25°	67.2	82.4	91.6	97.7	97.7	106.8	134.3	186.2	283.9	436.5
18.3	27.5°	39.7	58.0	70.2	76.3	79.4	91.6	125.2	180.1	305.2	546.4
0.0	30°	18.3	33.6	48.8	61.0	61.0	82.4	116.0	174.0	332.7	705.1
0.0	32.5°	0.0	15.3	24.4	42.7	45.8	67.2	106.8	167.9	372.4	857.7
0.0	35°	0.0	0.0	12.2	33.6	33.6	54.9	97.7	161.8	433.4	973.7
0.0	37.5°	0.0	0.0	0.0	24.4	27.5	48.8	94.6	158.7	445.7	982.9
0.0	40°	0.0	0.0	0.0	18.3	21.4	45.8	94.6	161.8	402.9	961.5
0.0	42.5°	0.0	0.0	0.0	12.2	15.3	45.8	94.6	167.9	363.2	985.9
0.0	45°	0.0	0.0	0.0	9.2	12.2	48.8	91.6	164.8	341.9	1114.1
0.0	47.5°	0.0	0.0	0.0	12.2	18.3	48.8	88.5	161.8	344.9	1538.4
0.0	50°	0.0	0.0	0.0	15.3	21.4	48.8	91.6	155.7	378.5	2365.6
0.0	52.5°	0.0	0.0	0.0	12.2	18.3	54.9	100.7	152.6	412.1	3076.9
0.0	55°	0.0	0.0	0.0	3.1	9.2	70.2	109.9	152.6	464.0	3253.9
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	79.4	125.2	161.8	549.4	3183.7
0.0	58°	0.0	0.0	0.0	0.0	0.0	79.4	128.2	161.8	555.5	3122.7
0.0	60°	0.0	0.0	0.0	0.0	0.0	79.4	140.4	180.1	598.3	2780.8
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	67.2	167.9	225.9	622.7	2185.6
0.0	65°	0.0	0.0	0.0	0.0	0.0	54.9	198.4	247.2	641.0	1739.9
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	51.9	204.5	250.3	650.2	1385.8
0.0	70°	0.0	0.0	0.0	0.0	0.0	54.9	201.5	268.6	680.7	1126.4
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	61.0	183.1	296.1	680.7	998.1
0.0	75°	0.0	0.0	0.0	0.0	0.0	64.1	170.9	332.7	619.6	863.8
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	61.0	167.9	387.7	552.5	711.2
0.0	80°	6.1	9.2	9.2	6.1	6.1	51.9	164.8	393.8	470.1	488.4
3.1	82.5°	18.3	24.4	21.4	15.3	15.3	45.8	146.5	329.7	244.2	210.6
18.3	85°	33.6	39.7	39.7	33.6	33.6	42.7	91.6	119.0	82.4	67.2
33.6	87.5°	45.8	51.9	51.9	45.8	45.8	42.7	39.7	36.6	33.6	33.6
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

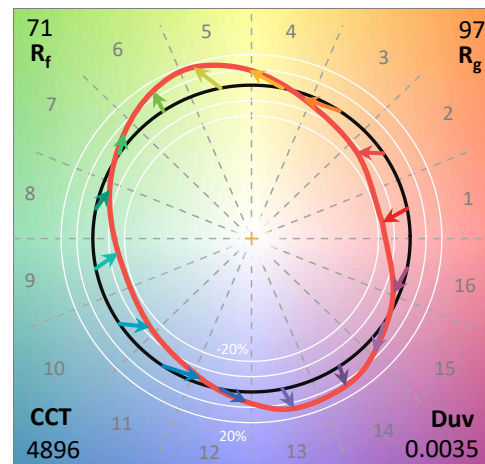
Data in this report applies to families of products including GSS-SB1A-750-U-5WQ

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

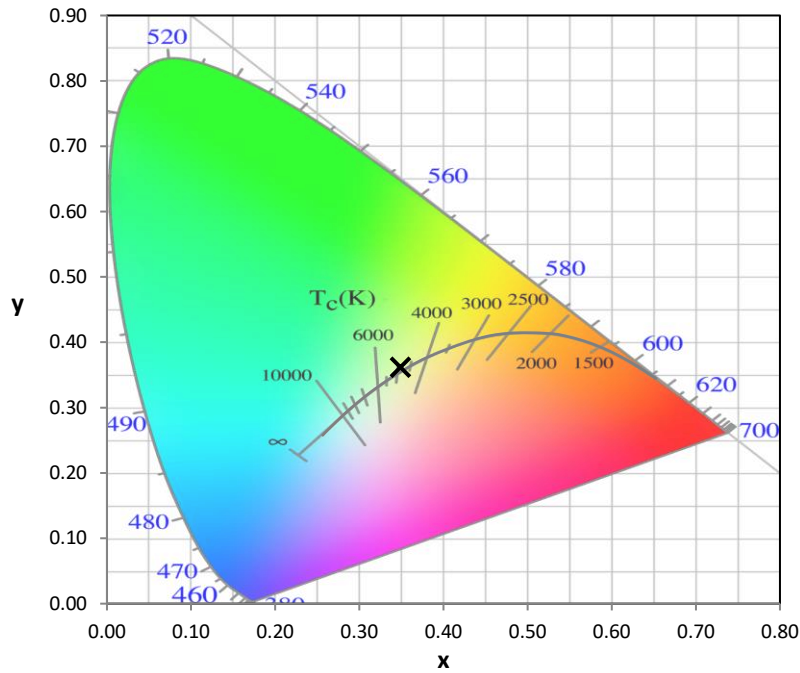
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-6

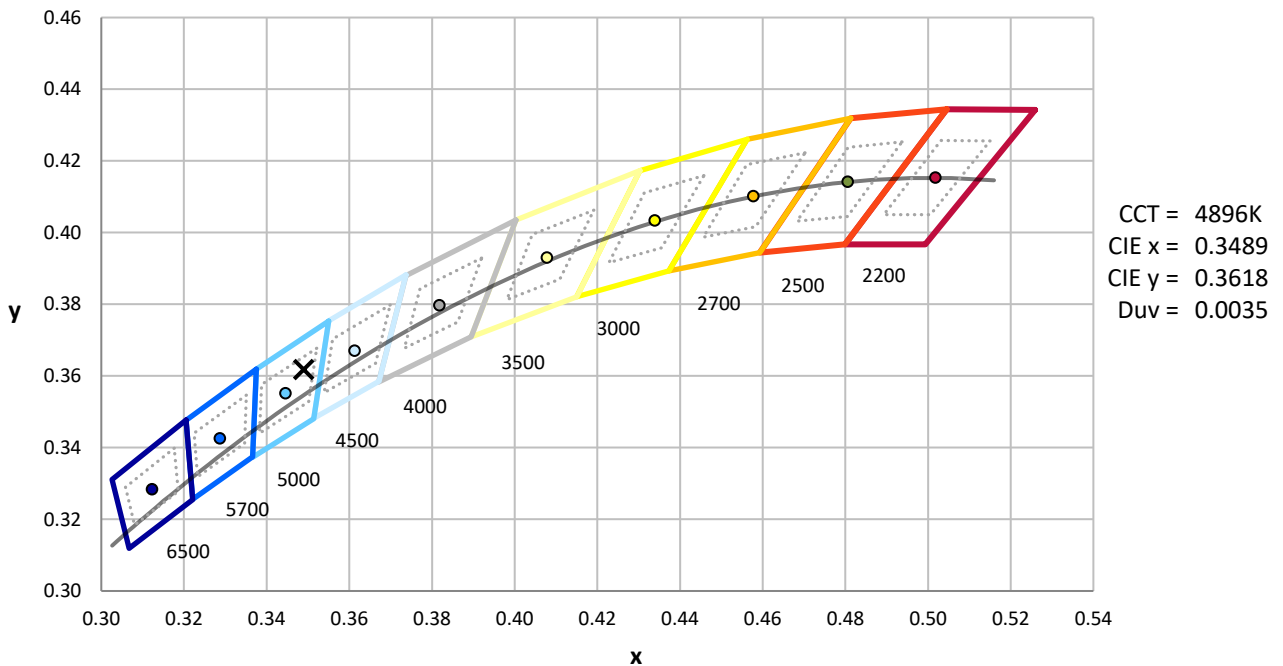
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



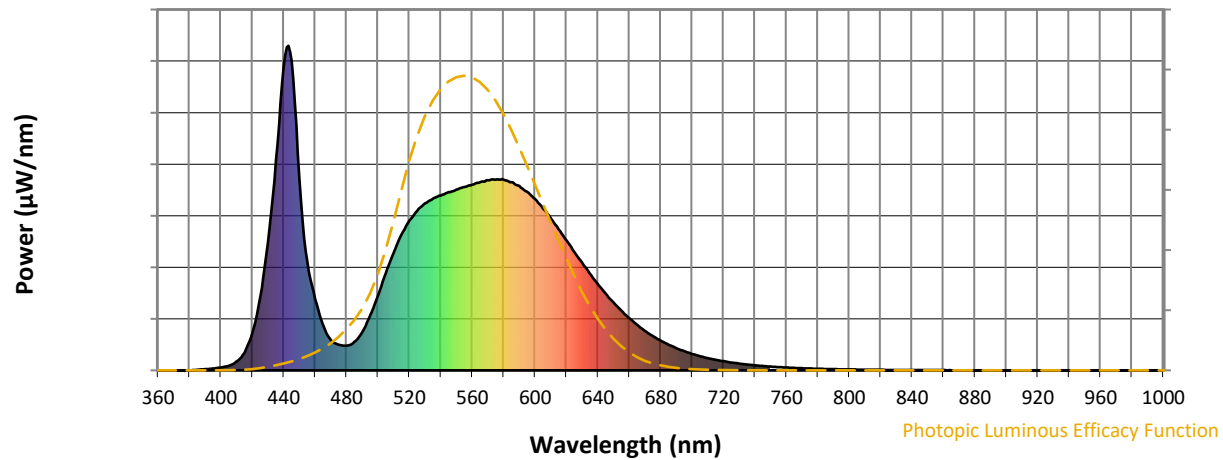
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-6

Photopic Flux vs. Wavelength

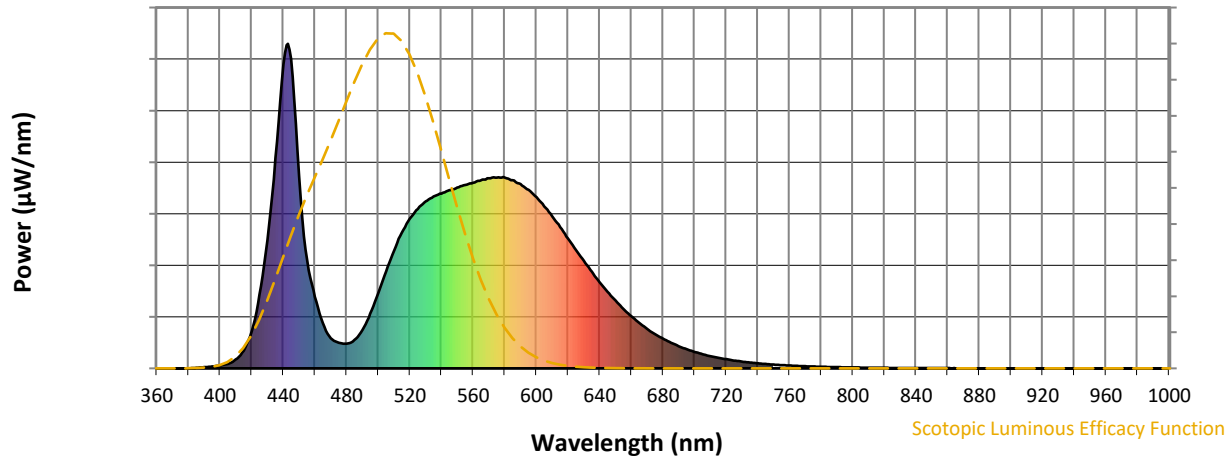


Photopic Lumens: NR

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



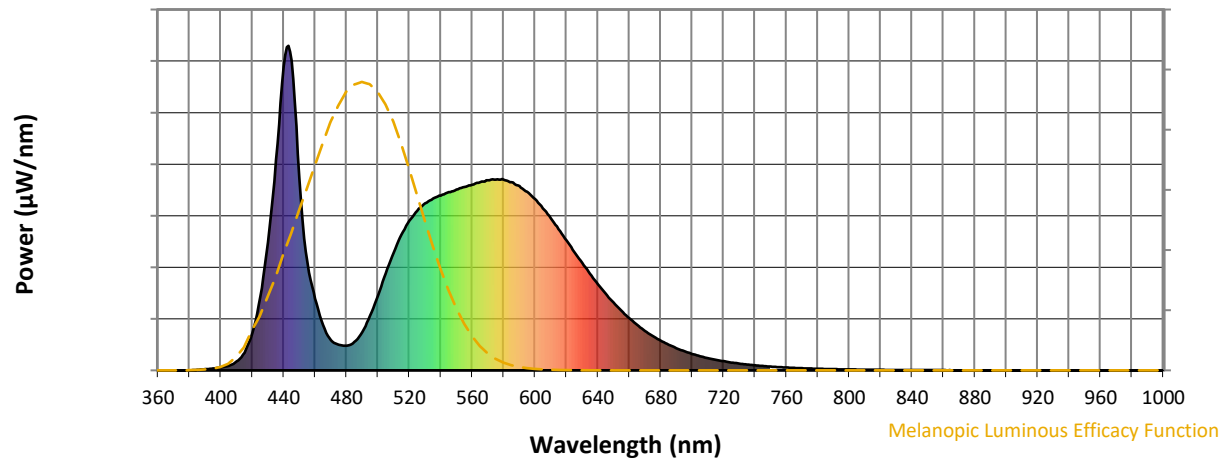
Scotopic Lumens: NR

S/P: 1.7

λ (nm)	Power W ^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	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

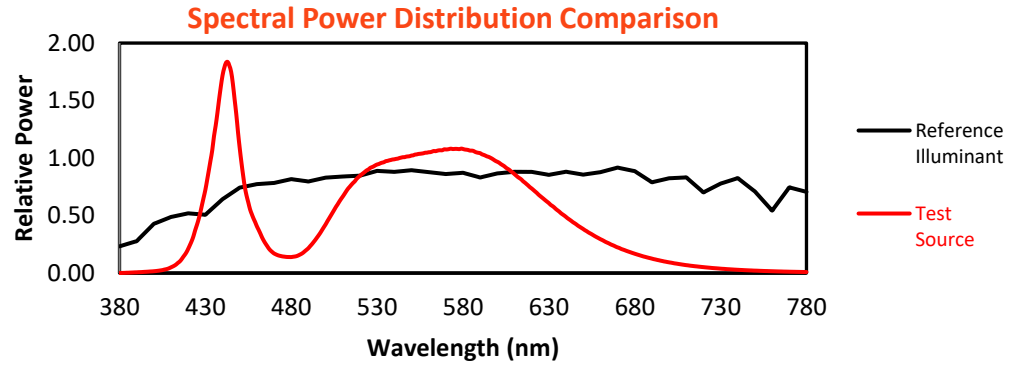
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	118	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

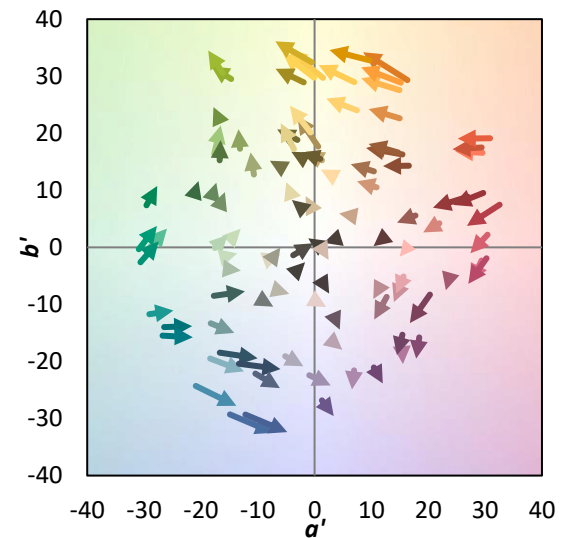
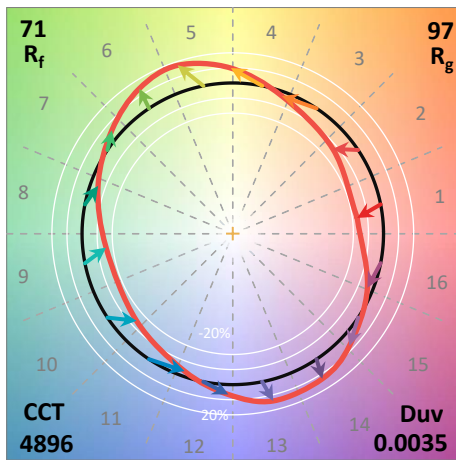
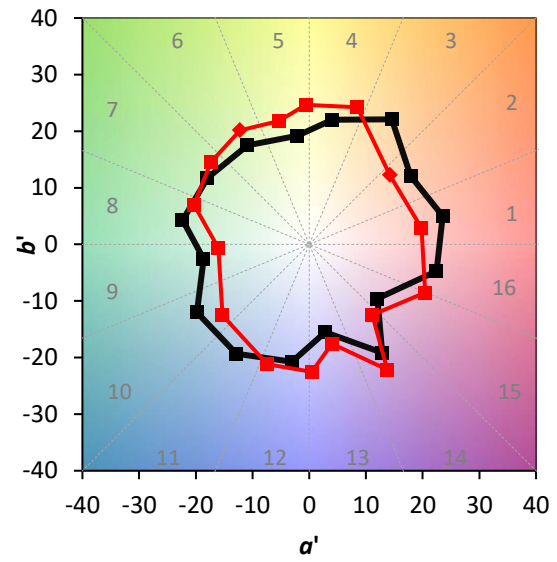
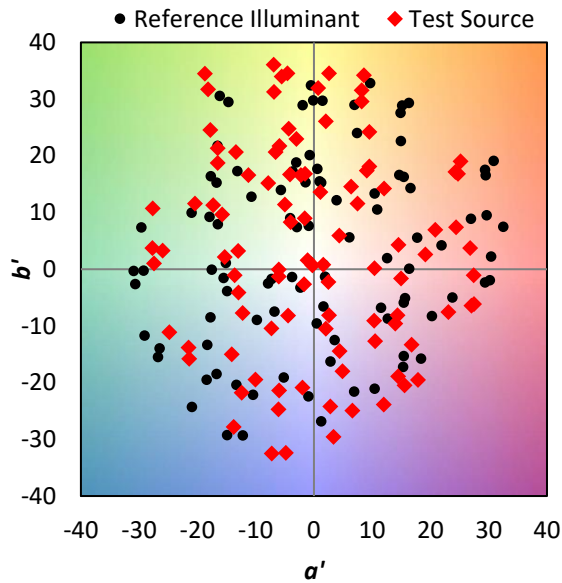
TM-30-18

Summary

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

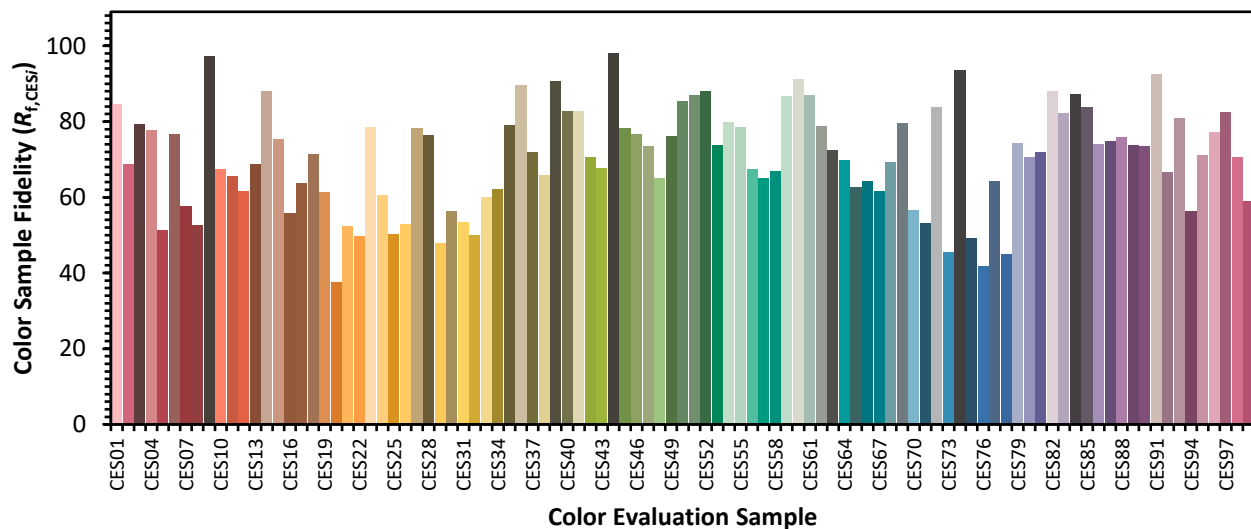


Color Vector Graphics

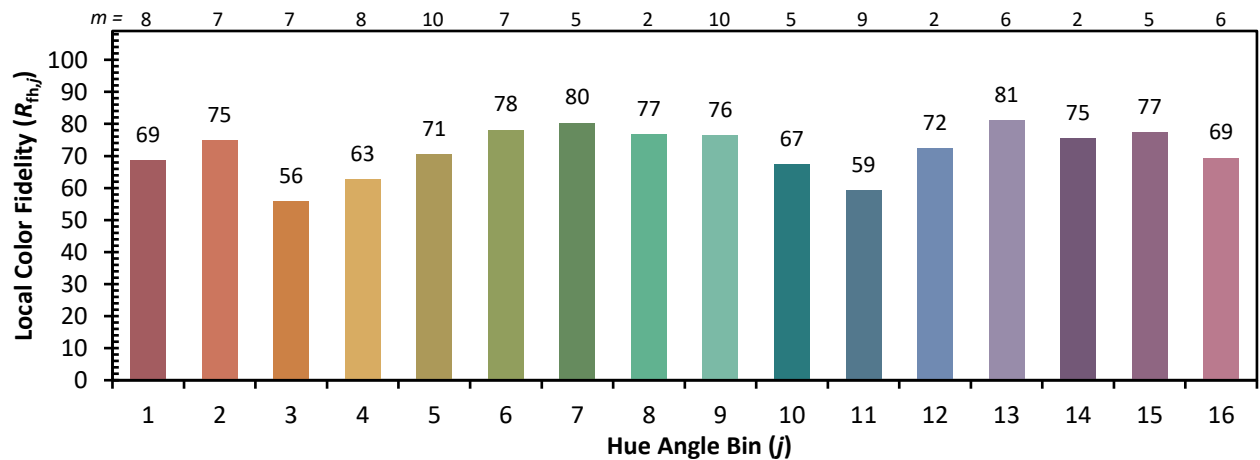
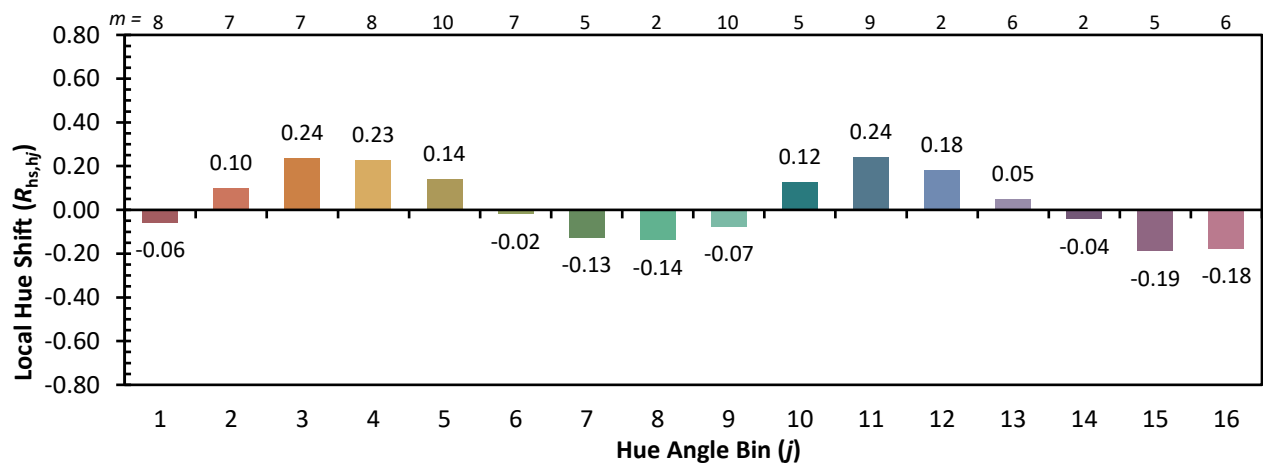
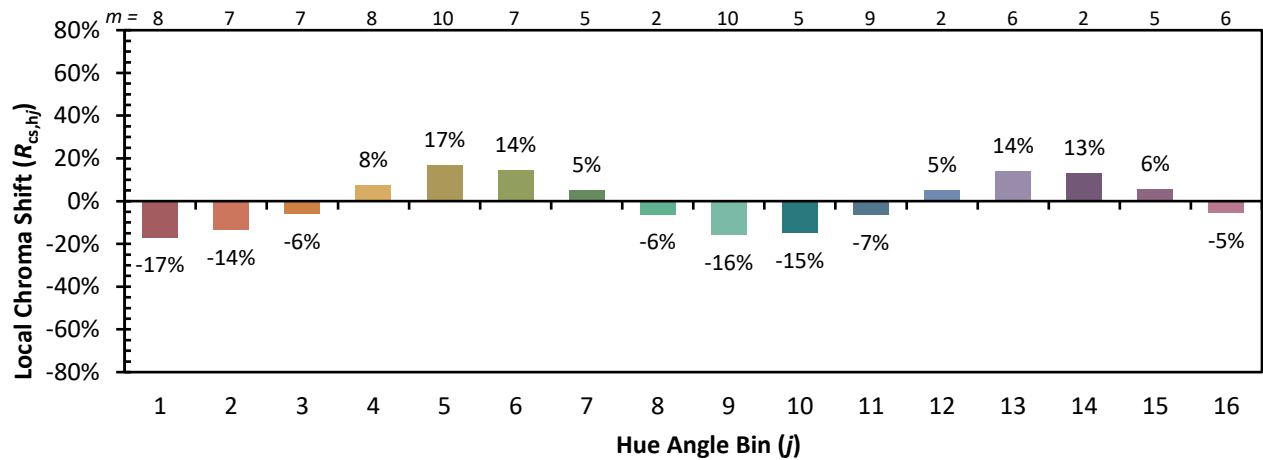


Individual Sample Fidelity Index ($R_{f,i}$)

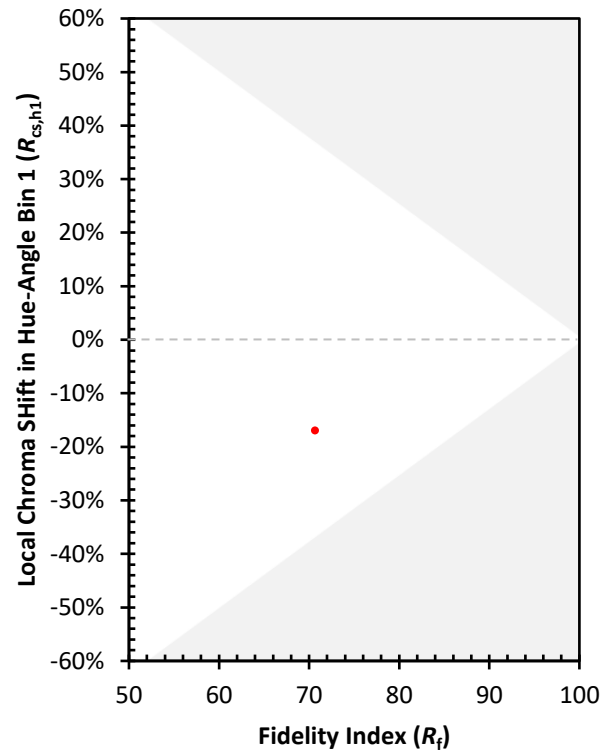
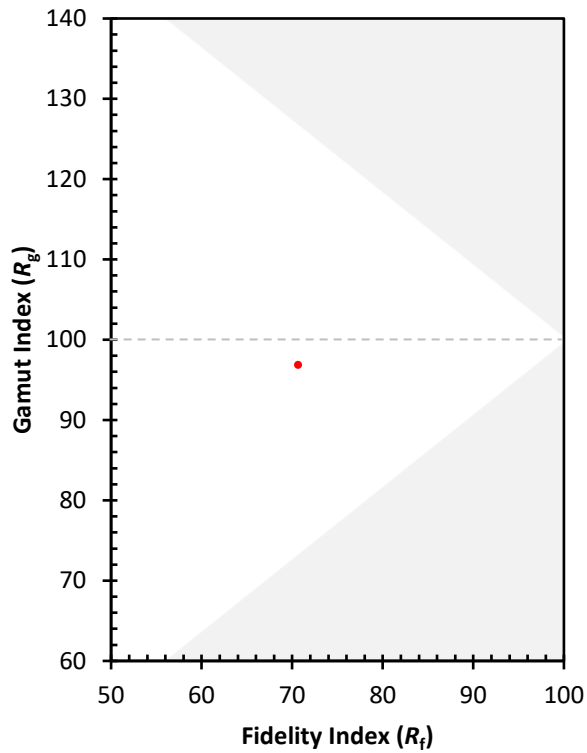
CES01 = 85	CES26 = 53	CES51 = 87	CES76 = 42
CES02 = 59	CES27 = 78	CES52 = 88	CES77 = 64
CES03 = 30	CES28 = 76	CES53 = 74	CES78 = 45
CES04 = 69	CES29 = 48	CES54 = 80	CES79 = 74
CES05 = 46	CES30 = 56	CES55 = 79	CES80 = 71
CES06 = 50	CES31 = 54	CES56 = 68	CES81 = 72
CES07 = 39	CES32 = 50	CES57 = 65	CES82 = 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)