

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: P1049994

Luminaire Tested: **GALN-SA8B-935-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049994
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-935-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 8xLight Square PACKAGE
90CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (112) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23839.3 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

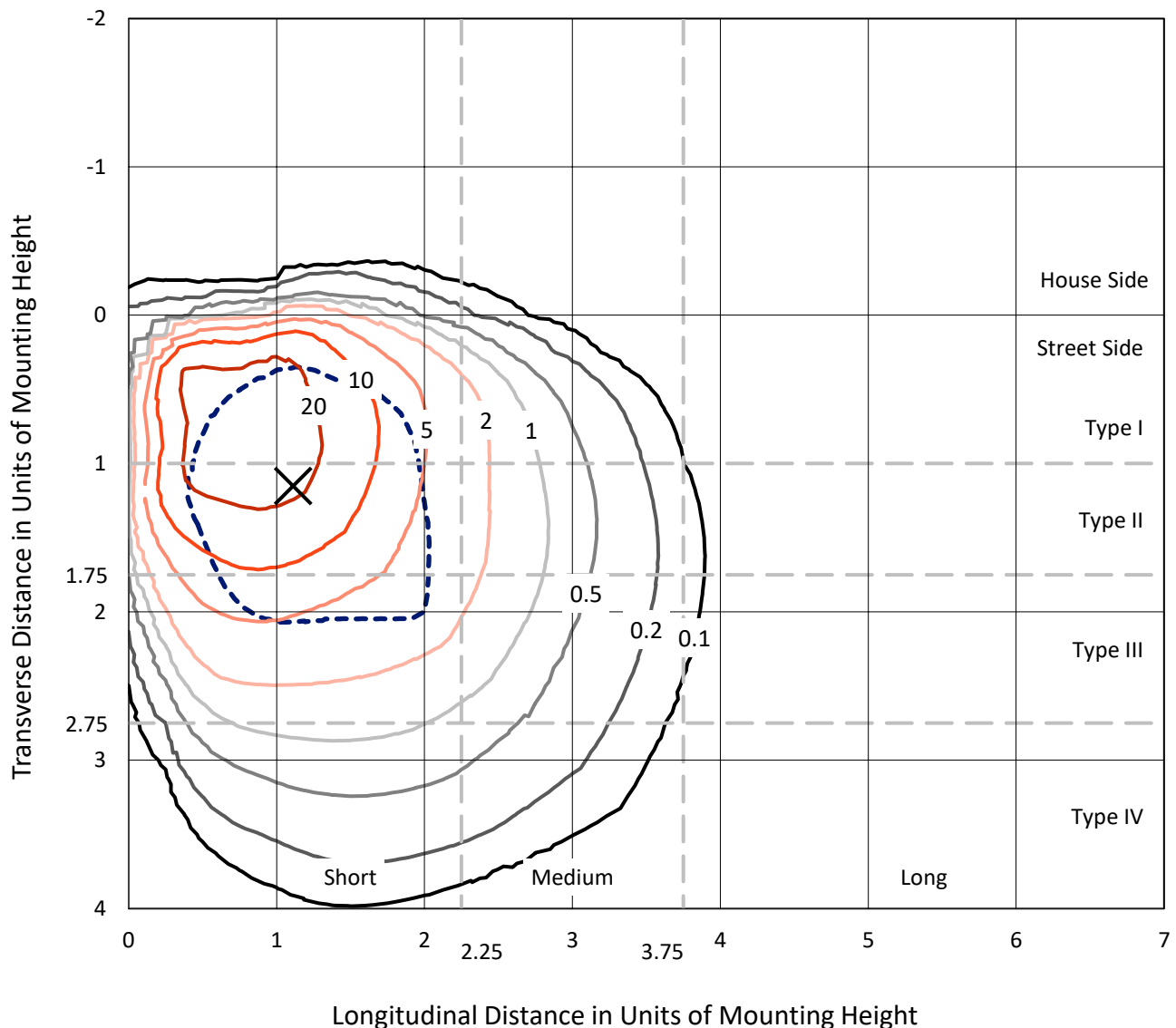
Input Watts (W): 282.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

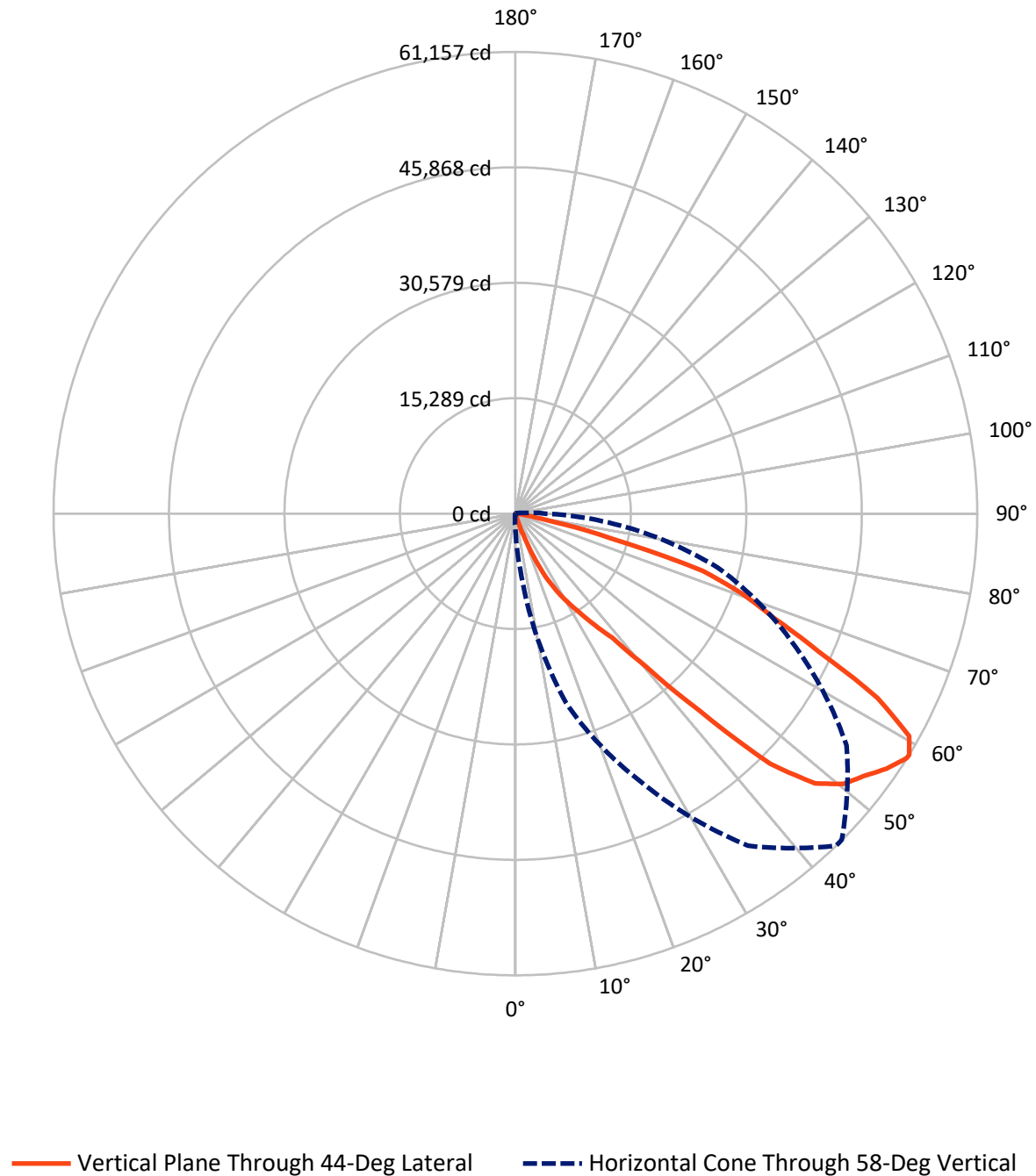
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 41.5 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	162.8	0.0	162.8
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	23676.5	0.0	23676.5
	% Fixture	99.3	0.0	99.3
Total	Lumens	23839.3	0.0	23839.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.3	0.0
10°-20°	52.3	0.2
20°-30°	564.8	2.4
30°-40°	1670.2	7.0
40°-50°	4978.0	20.9
50°-60°	7898.9	33.1
60°-70°	6588.6	27.6
70°-80°	2032.0	8.5
80°-90°	45.1	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°	23839.3	100.0
0°-180°	23839.3	100.0



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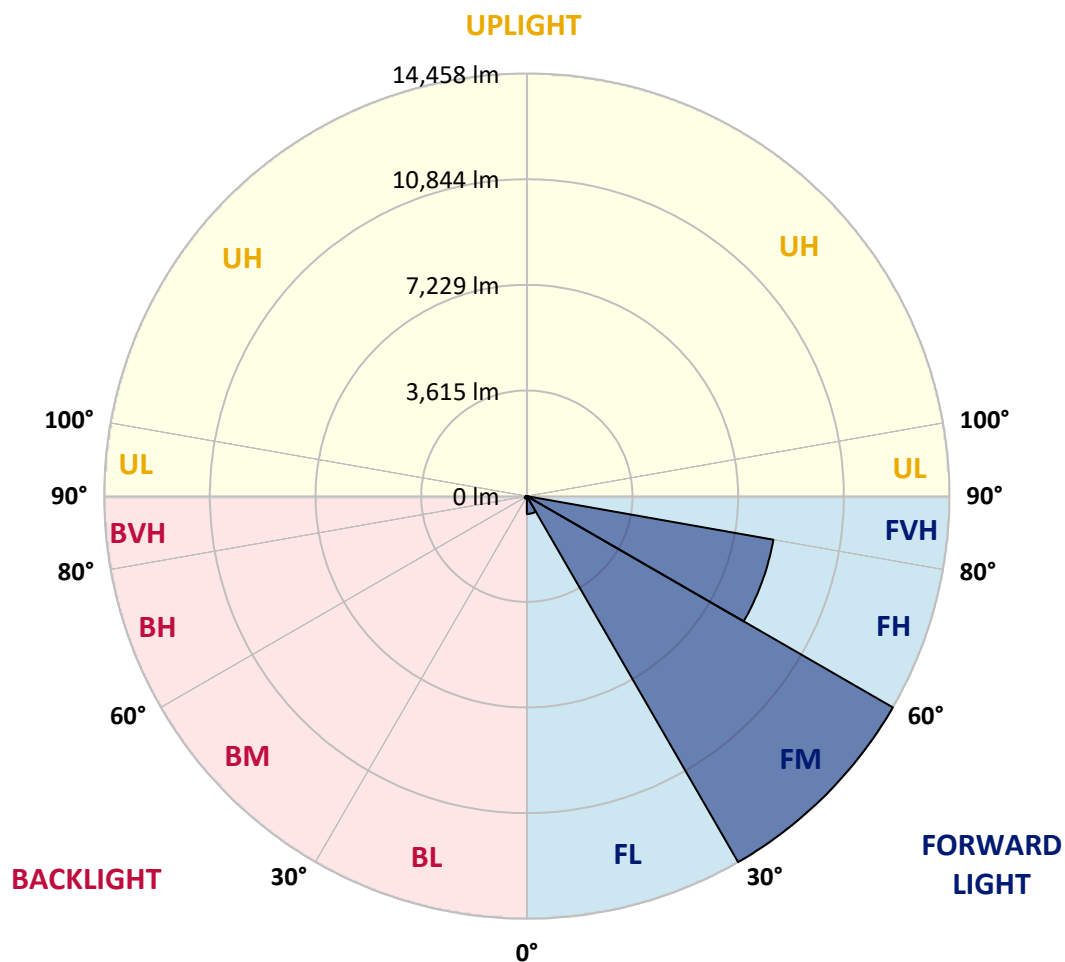
CATALOG NUMBER: GALN-SA8B-935-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	610.4	2.6			
FM	(30°-60°)	14458.0	60.6			
FH	(60°-80°)	8565.1	35.9			G4/12000
FVH	(80°-90°)	42.9	0.2			G1/100
BL	(0°-30°)	15.9	0.1	B0/110		
BM	(30°-60°)	89.1	0.4	B0/220		
BH	(60°-80°)	55.6	0.2	B0/110		G0/110
BVH	(80°-90°)	2.2	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°
0°	104.4	104.4	104.4	104.4	104.4	104.4	104.4	104.4	104.4	104.4
2.5°	135.1	135.1	129.7	122.5	115.3	108.1	106.3	102.6	100.8	99.0
5°	140.5	140.5	138.7	133.3	126.1	120.7	120.7	115.3	111.7	108.1
7.5°	144.1	145.9	149.5	147.7	144.1	138.7	138.7	135.1	129.7	120.7
10°	149.5	154.9	162.1	165.7	167.5	167.5	165.7	163.9	154.9	142.3
12.5°	154.9	165.7	183.7	201.7	212.5	226.9	225.1	221.5	198.1	171.1
15°	165.7	181.9	219.7	271.9	353.0	403.4	423.2	405.2	327.8	230.5
17.5°	178.3	205.3	318.8	569.1	932.8	1105.7	1210.2	1125.5	745.6	437.6
20°	190.9	250.3	592.5	1474.9	2420.4	2985.8	3142.5	2897.6	1860.3	833.8
22.5°	212.5	351.2	1201.2	3048.8	5215.3	6063.5	6223.8	5440.4	3513.5	1646.0
25°	257.5	509.6	2071.0	4968.6	7783.3	9215.0	9148.3	8121.9	5699.7	2629.2
27.5°	322.4	742.0	3131.7	7059.4	10243.3	11505.7	11656.9	10387.3	7597.8	3866.4
30°	416.0	1028.3	4269.8	8734.2	12215.2	13580.3	13605.5	12292.6	9296.0	4952.4
32.5°	506.0	1298.4	5265.7	10353.1	14158.3	15654.8	15766.5	14151.1	10563.8	6083.3
35°	574.5	1474.9	6274.2	11775.8	16117.7	18179.6	18172.4	16254.5	12065.7	7093.6
37.5°	579.9	1651.4	7187.2	13230.9	18599.2	20907.9	21136.6	19022.4	13881.0	8343.4
40°	567.3	1849.5	8343.4	15500.0	23070.8	26613.0	26814.7	24149.5	17522.3	10482.8
42.5°	581.7	2193.4	10219.9	19690.6	30495.7	35583.1	35972.1	33170.0	24216.1	14848.1
45°	657.3	2839.9	14151.1	26701.3	41079.3	47281.5	47151.8	43116.1	32004.8	21493.2
47.5°	907.6	4422.9	19978.7	33524.7	47843.3	53366.6	53478.2	48545.7	36550.2	26602.2
50°	1395.7	6767.6	24875.2	37131.8	50751.7	56293.0	56188.5	50488.8	38277.2	29118.0
52.5°	1815.3	8464.0	27331.6	38397.9	51124.5	57739.0	57731.8	51000.2	38545.5	29334.1
55°	1919.7	8591.9	27351.4	38466.3	51960.1	59631.7	59869.5	52259.0	38893.1	28390.5
57.5°	1878.3	7606.8	26209.7	38862.5	53447.6	61095.8	61108.4	53478.2	39775.5	27812.4
58°	1842.3	7451.9	25979.1	39087.6	53703.3	61157.1	61126.5	53534.0	40494.0	27790.8
60°	1640.6	6470.5	25080.5	39662.1	53323.3	59900.1	59613.7	52314.9	40387.8	27569.3
62.5°	1289.4	5047.8	24196.3	38997.5	49249.8	53815.0	53933.8	46316.2	36818.5	26278.1
65°	1026.5	3762.0	22352.2	34207.3	40555.3	44193.0	44636.0	37663.1	30731.6	22251.4
67.5°	817.6	2719.3	18750.5	27234.3	32091.3	36883.3	37205.7	31621.2	23809.1	17048.7
70°	664.5	1838.7	12942.8	19917.5	26469.0	31857.1	31877.0	26269.1	17770.8	11170.7
72.5°	588.9	1273.2	7513.2	14525.7	21462.6	25959.3	25435.3	21316.7	13657.7	6616.3
75°	509.6	844.6	3684.6	8880.0	13013.0	13101.2	13301.1	9888.5	6827.0	3146.1
77.5°	419.6	599.7	1451.5	2425.8	3902.5	4995.6	5181.1	3925.9	2270.9	774.4
80°	288.1	284.5	390.8	743.8	1116.5	1399.3	1305.6	1010.3	594.3	297.1
82.5°	124.3	135.1	176.5	212.5	172.9	167.5	160.3	102.6	79.2	61.2
85°	39.6	36.0	37.8	37.8	30.6	23.4	23.4	10.8	0.0	0.0
87.5°	19.8	16.2	16.2	14.4	9.0	3.6	1.8	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°
104.4	0°	104.4	104.4	104.4	104.4	104.4	104.4	104.4	104.4	104.4	104.4
97.2	2.5°	95.4	95.4	91.8	88.2	86.4	82.8	81.0	79.2	77.4	75.6
104.4	5°	100.8	99.0	93.6	88.2	82.8	77.4	73.8	70.2	66.6	64.8
115.3	7.5°	109.9	106.3	95.4	86.4	79.2	72.0	68.4	63.0	59.4	54.0
127.9	10°	120.7	113.5	99.0	88.2	77.4	68.4	63.0	57.6	52.2	45.0
145.9	12.5°	135.1	122.5	104.4	86.4	73.8	63.0	57.6	50.4	45.0	39.6
169.3	15°	147.7	131.5	106.3	86.4	70.2	57.6	50.4	43.2	37.8	30.6
212.5	17.5°	165.7	138.7	104.4	81.0	64.8	50.4	43.2	37.8	28.8	18.0
315.1	20°	196.3	144.1	100.8	75.6	55.8	41.4	32.4	25.2	12.6	3.6
473.6	22.5°	244.9	158.5	97.2	68.4	48.6	32.4	21.6	9.0	0.0	0.0
720.3	25°	338.6	183.7	97.2	64.8	43.2	23.4	7.2	0.0	0.0	0.0
1022.9	27.5°	450.2	217.9	97.2	55.8	34.2	12.6	0.0	0.0	0.0	0.0
1393.9	30°	563.7	255.7	97.2	48.6	27.0	1.8	0.0	0.0	0.0	0.0
1716.2	32.5°	671.7	288.1	99.0	41.4	18.0	0.0	0.0	0.0	0.0	0.0
2162.8	35°	781.6	293.5	97.2	36.0	10.8	0.0	0.0	0.0	0.0	0.0
2710.3	37.5°	922.0	282.7	91.8	32.4	5.4	0.0	0.0	0.0	0.0	0.0
3565.7	40°	1134.5	288.1	86.4	30.6	1.8	0.0	0.0	0.0	0.0	0.0
5091.0	42.5°	1527.1	311.5	79.2	30.6	0.0	0.0	0.0	0.0	0.0	0.0
8109.3	45°	2640.1	417.8	72.0	32.4	0.0	0.0	0.0	0.0	0.0	0.0
12173.8	47.5°	4367.1	751.0	70.2	32.4	0.0	0.0	0.0	0.0	0.0	0.0
14664.4	50°	5573.6	945.4	73.8	34.2	0.0	0.0	0.0	0.0	0.0	0.0
14975.9	52.5°	5564.6	1053.5	77.4	36.0	7.2	0.0	0.0	0.0	0.0	0.0
13803.6	55°	4947.0	1073.3	82.8	39.6	23.4	0.0	0.0	0.0	0.0	0.0
11862.2	57.5°	4134.8	979.7	95.4	48.6	43.2	0.0	0.0	0.0	0.0	0.0
11557.9	58°	3990.7	936.4	99.0	50.4	46.8	0.0	0.0	0.0	0.0	0.0
10025.4	60°	3270.4	763.6	126.1	63.0	63.0	0.0	0.0	0.0	0.0	0.0
8219.1	62.5°	2258.3	666.3	144.1	81.0	64.8	0.0	0.0	0.0	0.0	0.0
6059.9	65°	1597.4	601.5	156.7	86.4	52.2	0.0	0.0	0.0	0.0	0.0
4305.8	67.5°	1194.0	554.7	172.9	88.2	27.0	0.0	0.0	0.0	0.0	0.0
2701.3	70°	914.8	520.4	212.5	93.6	7.2	0.0	0.0	0.0	0.0	0.0
1610.0	72.5°	745.6	480.8	257.5	97.2	0.0	0.0	0.0	0.0	0.0	0.0
965.3	75°	617.7	434.0	248.5	106.3	0.0	0.0	0.0	0.0	0.0	0.0
515.0	77.5°	410.6	336.8	226.9	106.3	0.0	0.0	0.0	0.0	0.0	0.0
183.7	80°	144.1	133.3	176.5	93.6	0.0	0.0	0.0	0.0	0.0	0.0
37.8	82.5°	21.6	18.0	25.2	32.4	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°
104.4	0°	104.4	104.4	104.4	104.4	104.4	104.4	104.4	104.4	104.4	104.4
73.8	2.5°	73.8	73.8	72.0	73.8	73.8	77.4	86.4	99.0	113.5	118.9
63.0	5°	61.2	59.4	57.6	57.6	57.6	63.0	70.2	84.6	100.8	108.1
52.2	7.5°	50.4	48.6	46.8	45.0	45.0	48.6	57.6	73.8	90.0	97.2
43.2	10°	41.4	37.8	36.0	34.2	34.2	37.8	46.8	63.0	81.0	88.2
36.0	12.5°	34.2	28.8	25.2	23.4	21.6	27.0	36.0	50.4	70.2	79.2
27.0	15°	23.4	18.0	12.6	10.8	9.0	14.4	23.4	39.6	59.4	70.2
14.4	17.5°	12.6	5.4	1.8	0.0	0.0	3.6	10.8	28.8	48.6	57.6
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.4	36.0	45.0
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	21.6	30.6
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	16.2
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
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	5.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	14.4
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°
104.4	0°	104.4	104.4	104.4	104.4	104.4	104.4	104.4	104.4	104.4	104.4
124.3	2.5°	127.9	126.1	122.5	118.9	118.9	118.9	124.3	129.7	135.1	135.1
111.7	5°	118.9	118.9	117.1	113.5	113.5	115.3	122.5	131.5	138.7	140.5
102.6	7.5°	109.9	113.5	109.9	108.1	109.9	111.7	118.9	129.7	140.5	144.1
95.4	10°	104.4	106.3	106.3	104.4	104.4	108.1	115.3	129.7	144.1	149.5
86.4	12.5°	97.2	100.8	99.0	99.0	99.0	102.6	111.7	127.9	147.7	154.9
77.4	15°	90.0	95.4	95.4	93.6	93.6	95.4	108.1	126.1	153.1	165.7
66.6	17.5°	82.8	88.2	90.0	86.4	86.4	90.0	102.6	126.1	156.7	178.3
54.0	20°	68.4	77.4	82.8	77.4	77.4	81.0	93.6	118.9	158.5	190.9
39.6	22.5°	54.0	63.0	70.2	68.4	68.4	70.2	86.4	113.5	160.3	212.5
23.4	25°	39.6	48.6	54.0	57.6	57.6	63.0	79.2	109.9	167.5	257.5
10.8	27.5°	23.4	34.2	41.4	45.0	46.8	54.0	73.8	106.3	180.1	322.4
0.0	30°	10.8	19.8	28.8	36.0	36.0	48.6	68.4	102.6	196.3	416.0
0.0	32.5°	0.0	9.0	14.4	25.2	27.0	39.6	63.0	99.0	219.7	506.0
0.0	35°	0.0	0.0	7.2	19.8	19.8	32.4	57.6	95.4	255.7	574.5
0.0	37.5°	0.0	0.0	0.0	14.4	16.2	28.8	55.8	93.6	262.9	579.9
0.0	40°	0.0	0.0	0.0	10.8	12.6	27.0	55.8	95.4	237.7	567.3
0.0	42.5°	0.0	0.0	0.0	7.2	9.0	27.0	55.8	99.0	214.3	581.7
0.0	45°	0.0	0.0	0.0	5.4	7.2	28.8	54.0	97.2	201.7	657.3
0.0	47.5°	0.0	0.0	0.0	7.2	10.8	28.8	52.2	95.4	203.5	907.6
0.0	50°	0.0	0.0	0.0	9.0	12.6	28.8	54.0	91.8	223.3	1395.7
0.0	52.5°	0.0	0.0	0.0	7.2	10.8	32.4	59.4	90.0	243.1	1815.3
0.0	55°	0.0	0.0	0.0	1.8	5.4	41.4	64.8	90.0	273.7	1919.7
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	46.8	73.8	95.4	324.2	1878.3
0.0	58°	0.0	0.0	0.0	0.0	0.0	46.8	75.6	95.4	327.8	1842.3
0.0	60°	0.0	0.0	0.0	0.0	0.0	46.8	82.8	106.3	353.0	1640.6
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	39.6	99.0	133.3	367.4	1289.4
0.0	65°	0.0	0.0	0.0	0.0	0.0	32.4	117.1	145.9	378.2	1026.5
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	30.6	120.7	147.7	383.6	817.6
0.0	70°	0.0	0.0	0.0	0.0	0.0	32.4	118.9	158.5	401.6	664.5
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	36.0	108.1	174.7	401.6	588.9
0.0	75°	0.0	0.0	0.0	0.0	0.0	37.8	100.8	196.3	365.6	509.6
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	36.0	99.0	228.7	326.0	419.6
0.0	80°	3.6	5.4	5.4	3.6	3.6	30.6	97.2	232.3	277.3	288.1
1.8	82.5°	10.8	14.4	12.6	9.0	9.0	27.0	86.4	194.5	144.1	124.3
10.8	85°	19.8	23.4	23.4	19.8	19.8	25.2	54.0	70.2	48.6	39.6
19.8	87.5°	27.0	30.6	30.6	27.0	27.0	25.2	23.4	21.6	19.8	19.8
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: SP1-2407-184-15

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-935-U-5WQ

Data in this report applies to families of products including GSS-SB1A-935-U-5WQ

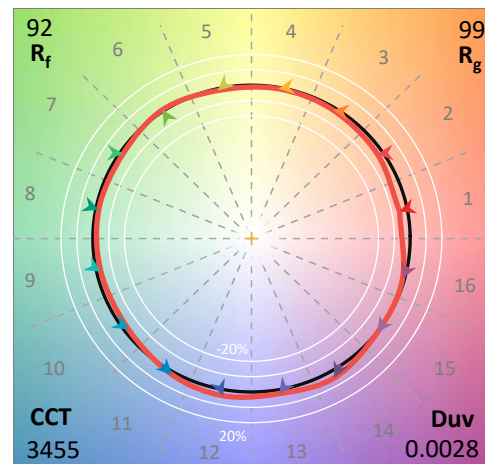
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-15
 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-935-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 3500K CCT 26 LEDS

Spectral Parameters

CCT (K): 3455
 CIE u' : 0.2356
 CIE v' : 0.5159
 Duv: 0.0028
 CIE x: 0.4109
 CIE y: 0.3999
 CIE z: 0.1892
 Peak Wavelength (nm): 616
 Dominant Wavelength (nm): 579
 Purity: 43.35383
 R_f: 92.3
 R_g: 98.5

CRI (Ra): 92.2
 R1: 92.0
 R2: 94.4
 R3: 95.6
 R4: 93.2
 R5: 91.4
 R6: 92.5
 R7: 94.5
 R8: 84.2
 R9: 59.8
 R10: 85.8
 R11: 93.2
 R12: 78.0
 R13: 92.5
 R14: 97.0
 R15: 88.4



Test Conditions

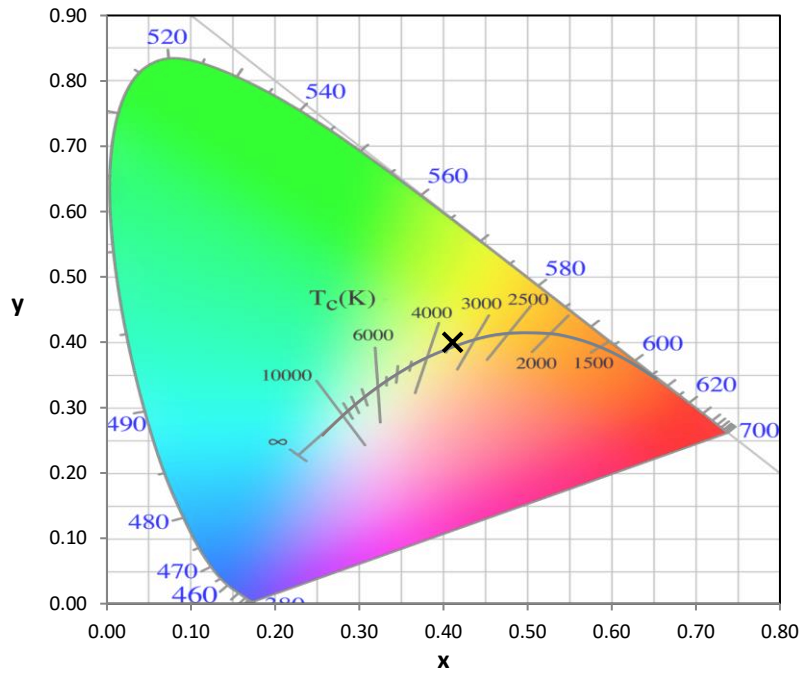
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-15

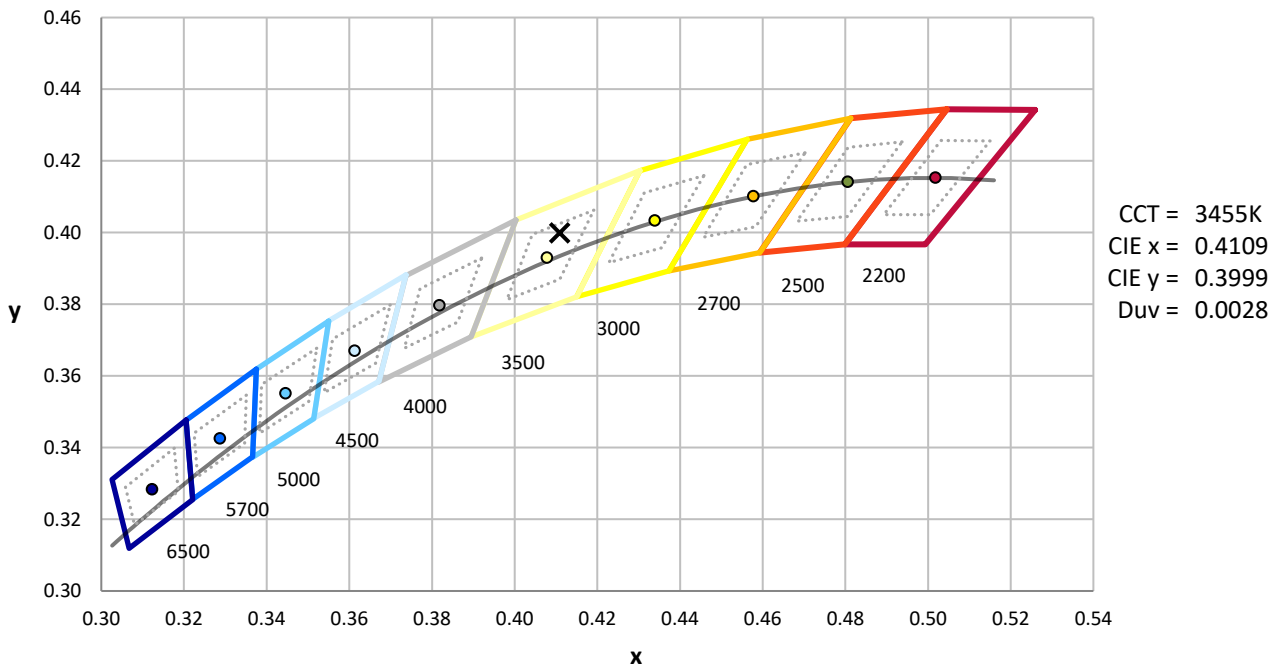
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



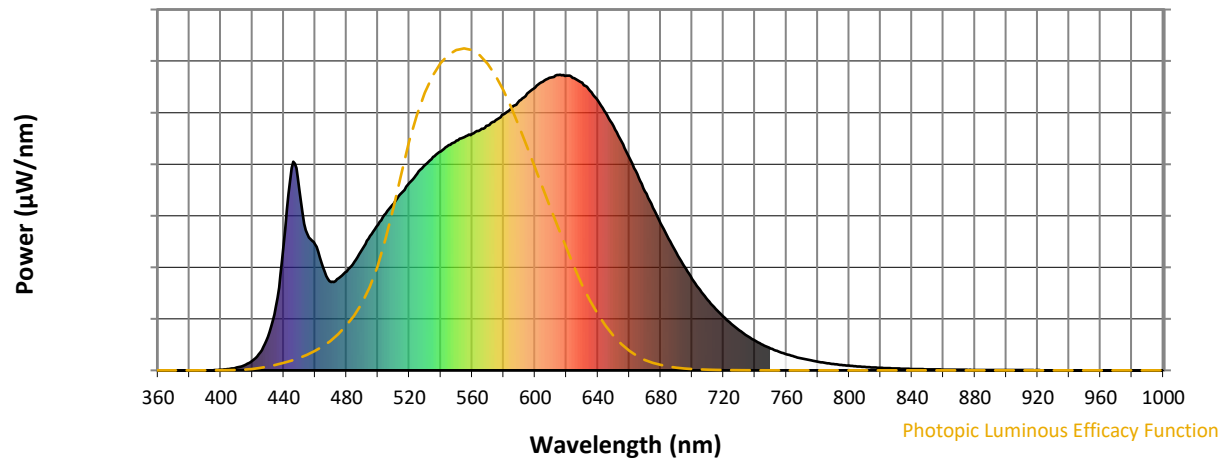
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-15

Photopic Flux vs. Wavelength

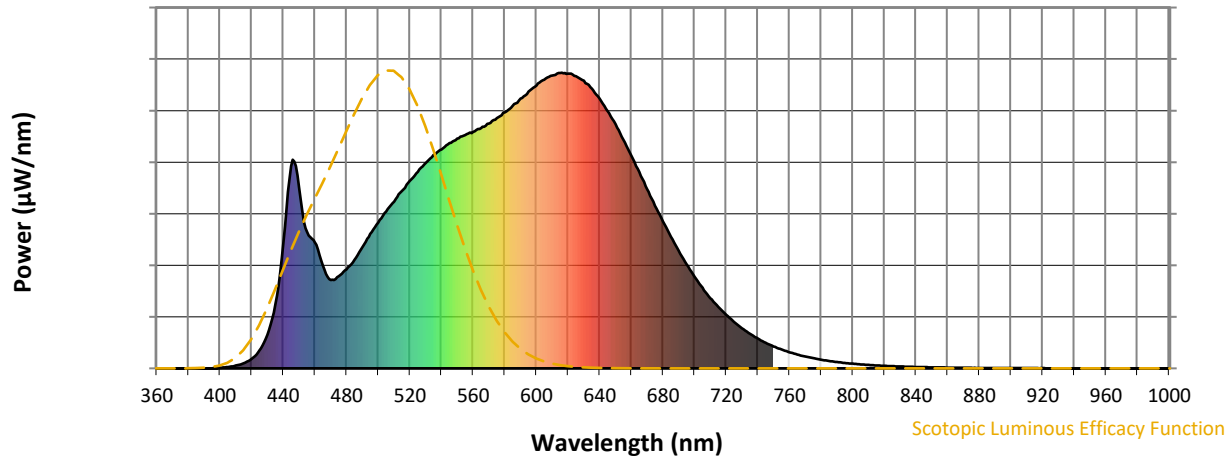


Photopic Lumens: NR

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	410	NR	620	997	NR	750	74	NR	880	1	NR
365	0	NR	495	454	NR	625	988	NR	755	64	NR	885	1	NR
370	0	NR	500	493	NR	630	973	NR	760	54	NR	890	1	NR
375	0	NR	505	530	NR	635	946	NR	765	47	NR	895	1	NR
380	0	NR	510	564	NR	640	913	NR	770	40	NR	900	1	NR
385	0	NR	515	599	NR	645	870	NR	775	34	NR	905	1	NR
390	0	NR	520	634	NR	650	826	NR	780	29	NR	910	1	NR
395	0	NR	525	664	NR	655	774	NR	785	25	NR	915	1	NR
400	2	NR	530	695	NR	660	720	NR	790	21	NR	920	1	NR
405	4	NR	535	722	NR	665	664	NR	795	18	NR	925	1	NR
410	9	NR	540	741	NR	670	605	NR	800	16	NR	930	0	NR
415	17	NR	545	762	NR	675	550	NR	805	13	NR	935	0	NR
420	32	NR	550	777	NR	680	497	NR	810	12	NR	940	0	NR
425	61	NR	555	789	NR	685	445	NR	815	10	NR	945	0	NR
430	114	NR	560	800	NR	690	398	NR	820	9	NR	950	0	NR
435	218	NR	565	813	NR	695	352	NR	825	7	NR	955	0	NR
440	427	NR	570	828	NR	700	309	NR	830	6	NR	960	0	NR
445	684	NR	575	846	NR	705	273	NR	835	5	NR	965	0	NR
450	611	NR	580	866	NR	710	237	NR	840	5	NR	970	0	NR
455	461	NR	585	888	NR	715	208	NR	845	4	NR	975	0	NR
460	427	NR	590	913	NR	720	181	NR	850	4	NR	980	0	NR
465	349	NR	595	936	NR	725	157	NR	855	3	NR	985	0	NR
470	298	NR	600	957	NR	730	136	NR	860	3	NR	990	1	NR
475	312	NR	605	976	NR	735	117	NR	865	2	NR	995	0	NR
480	335	NR	610	990	NR	740	100	NR	870	2	NR	1000	0	NR
485	367	NR	615	999	NR	745	86	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-15

Scotopic Flux vs. Wavelength



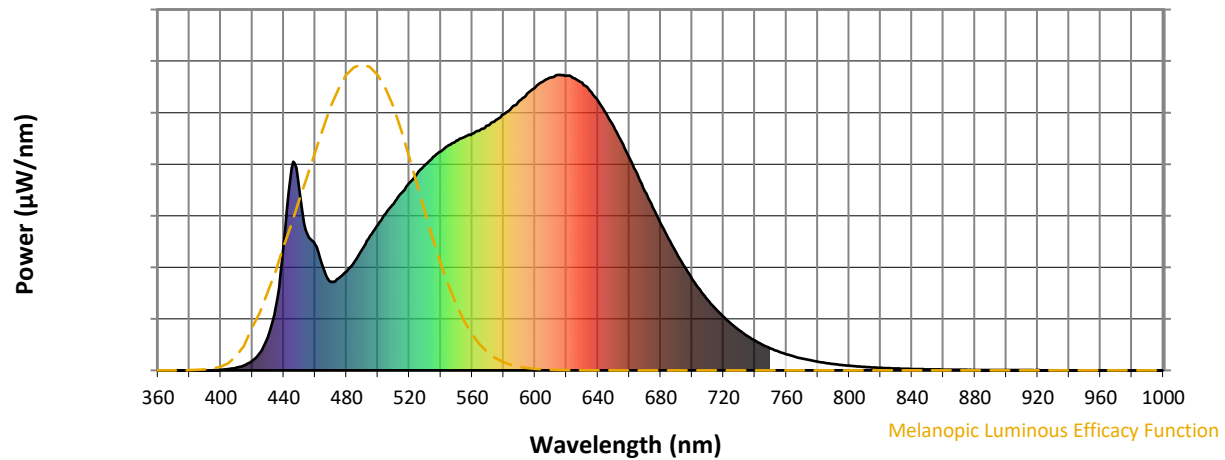
Scotopic Lumens: NR

S/P: 1.58

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	410	NR	620	997	NR	750	74	NR	880	1	NR
365	0	NR	495	454	NR	625	988	NR	755	64	NR	885	1	NR
370	0	NR	500	493	NR	630	973	NR	760	54	NR	890	1	NR
375	0	NR	505	530	NR	635	946	NR	765	47	NR	895	1	NR
380	0	NR	510	564	NR	640	913	NR	770	40	NR	900	1	NR
385	0	NR	515	599	NR	645	870	NR	775	34	NR	905	1	NR
390	0	NR	520	634	NR	650	826	NR	780	29	NR	910	1	NR
395	0	NR	525	664	NR	655	774	NR	785	25	NR	915	1	NR
400	2	NR	530	695	NR	660	720	NR	790	21	NR	920	1	NR
405	4	NR	535	722	NR	665	664	NR	795	18	NR	925	1	NR
410	9	NR	540	741	NR	670	605	NR	800	16	NR	930	0	NR
415	17	NR	545	762	NR	675	550	NR	805	13	NR	935	0	NR
420	32	NR	550	777	NR	680	497	NR	810	12	NR	940	0	NR
425	61	NR	555	789	NR	685	445	NR	815	10	NR	945	0	NR
430	114	NR	560	800	NR	690	398	NR	820	9	NR	950	0	NR
435	218	NR	565	813	NR	695	352	NR	825	7	NR	955	0	NR
440	427	NR	570	828	NR	700	309	NR	830	6	NR	960	0	NR
445	684	NR	575	846	NR	705	273	NR	835	5	NR	965	0	NR
450	611	NR	580	866	NR	710	237	NR	840	5	NR	970	0	NR
455	461	NR	585	888	NR	715	208	NR	845	4	NR	975	0	NR
460	427	NR	590	913	NR	720	181	NR	850	4	NR	980	0	NR
465	349	NR	595	936	NR	725	157	NR	855	3	NR	985	0	NR
470	298	NR	600	957	NR	730	136	NR	860	3	NR	990	1	NR
475	312	NR	605	976	NR	735	117	NR	865	2	NR	995	0	NR
480	335	NR	610	990	NR	740	100	NR	870	2	NR	1000	0	NR
485	367	NR	615	999	NR	745	86	NR	875	2	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 3.14

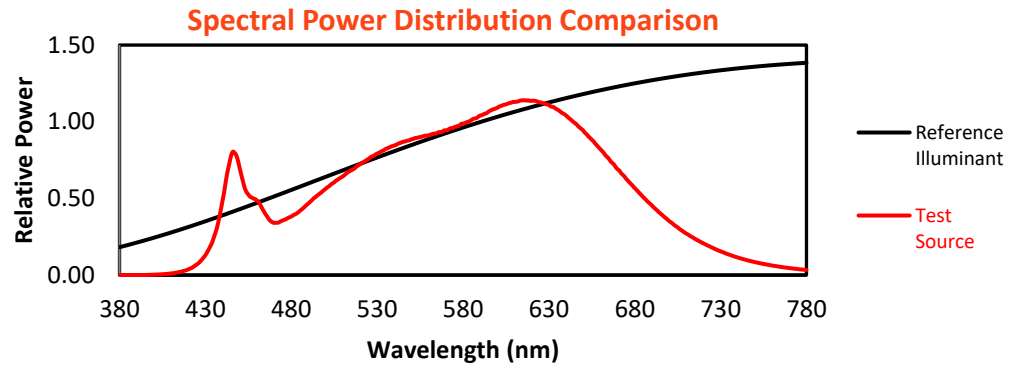
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	410	NR	620	997	NR	750	74	NR	880	1	NR
365	0	NR	495	454	NR	625	988	NR	755	64	NR	885	1	NR
370	0	NR	500	493	NR	630	973	NR	760	54	NR	890	1	NR
375	0	NR	505	530	NR	635	946	NR	765	47	NR	895	1	NR
380	0	NR	510	564	NR	640	913	NR	770	40	NR	900	1	NR
385	0	NR	515	599	NR	645	870	NR	775	34	NR	905	1	NR
390	0	NR	520	634	NR	650	826	NR	780	29	NR	910	1	NR
395	0	NR	525	664	NR	655	774	NR	785	25	NR	915	1	NR
400	2	NR	530	695	NR	660	720	NR	790	21	NR	920	1	NR
405	4	NR	535	722	NR	665	664	NR	795	18	NR	925	1	NR
410	9	NR	540	741	NR	670	605	NR	800	16	NR	930	0	NR
415	17	NR	545	762	NR	675	550	NR	805	13	NR	935	0	NR
420	32	NR	550	777	NR	680	497	NR	810	12	NR	940	0	NR
425	61	NR	555	789	NR	685	445	NR	815	10	NR	945	0	NR
430	114	NR	560	800	NR	690	398	NR	820	9	NR	950	0	NR
435	218	NR	565	813	NR	695	352	NR	825	7	NR	955	0	NR
440	427	NR	570	828	NR	700	309	NR	830	6	NR	960	0	NR
445	684	NR	575	846	NR	705	273	NR	835	5	NR	965	0	NR
450	611	NR	580	866	NR	710	237	NR	840	5	NR	970	0	NR
455	461	NR	585	888	NR	715	208	NR	845	4	NR	975	0	NR
460	427	NR	590	913	NR	720	181	NR	850	4	NR	980	0	NR
465	349	NR	595	936	NR	725	157	NR	855	3	NR	985	0	NR
470	298	NR	600	957	NR	730	136	NR	860	3	NR	990	1	NR
475	312	NR	605	976	NR	735	117	NR	865	2	NR	995	0	NR
480	335	NR	610	990	NR	740	100	NR	870	2	NR	1000	0	NR
485	367	NR	615	999	NR	745	86	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-15

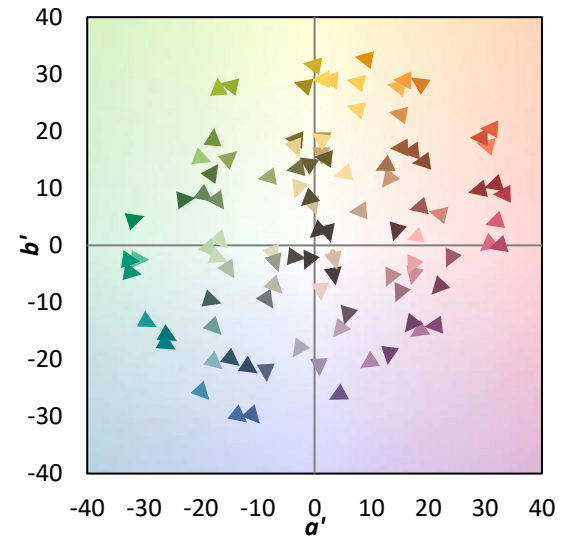
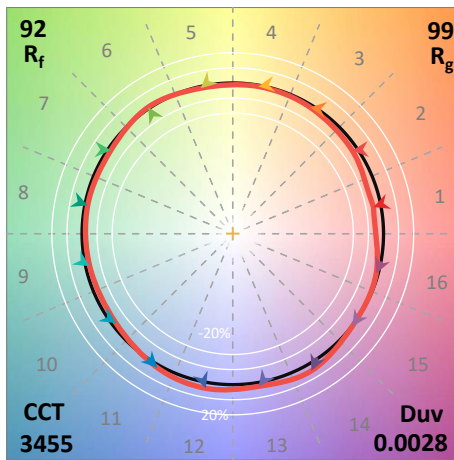
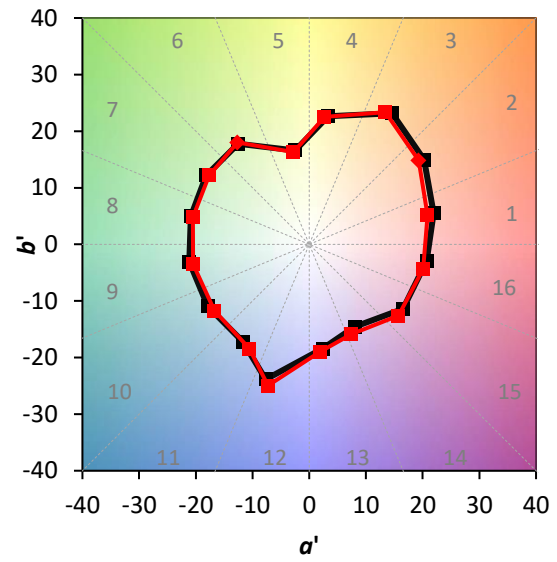
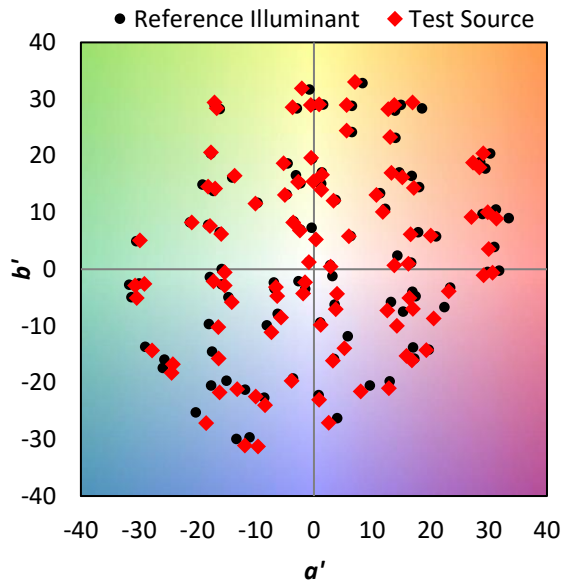
TM-30-18

Summary

$R_f = 92.3$
 $R_g = 98.5$
 $CIE R_a = 92.2$
 $R_9 = 59.8$

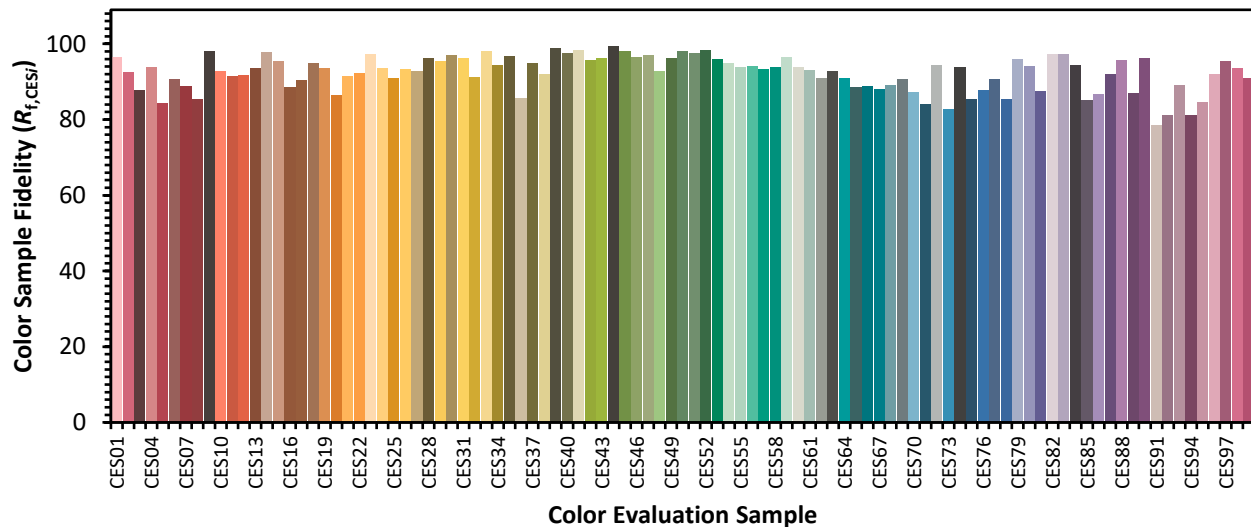


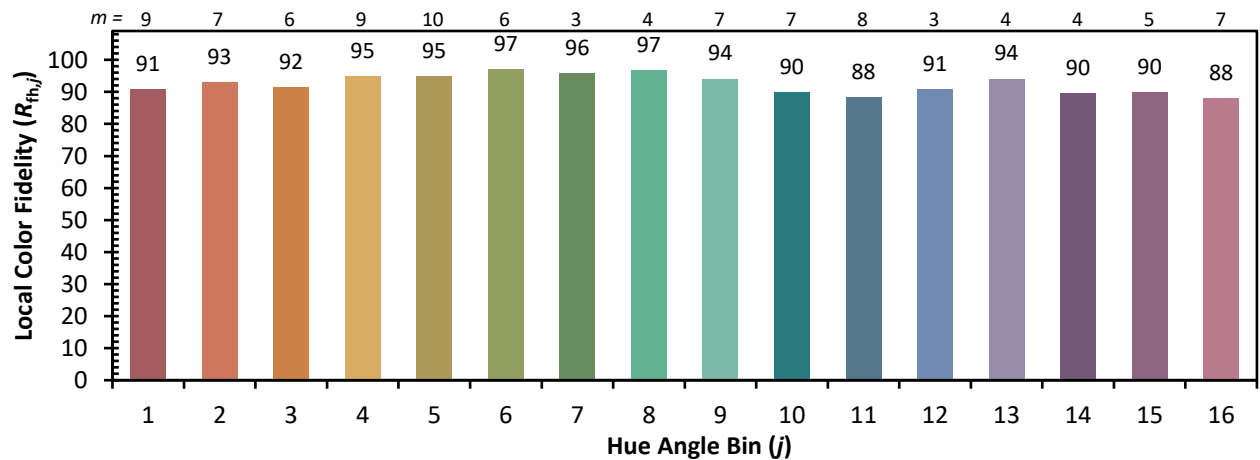
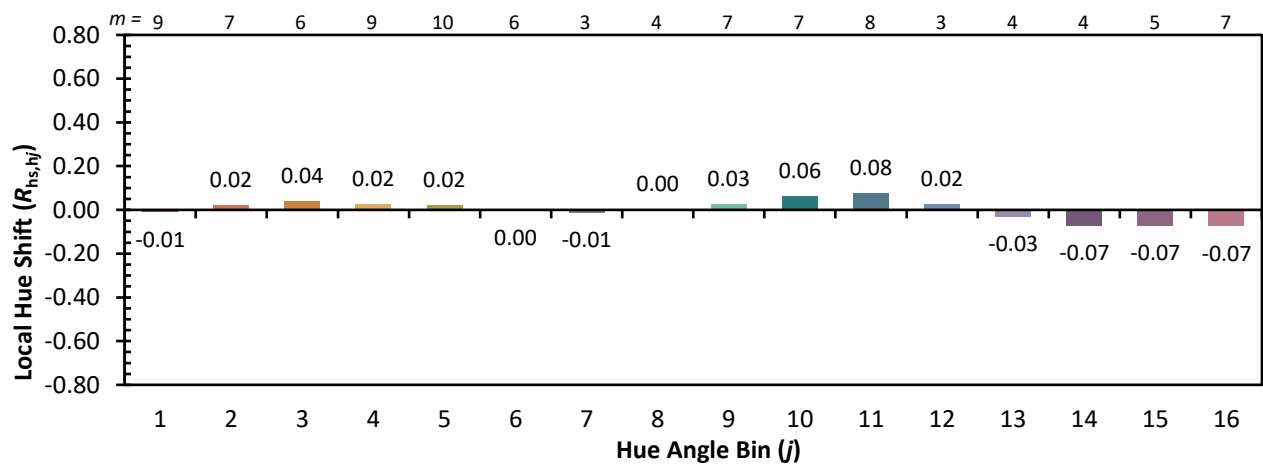
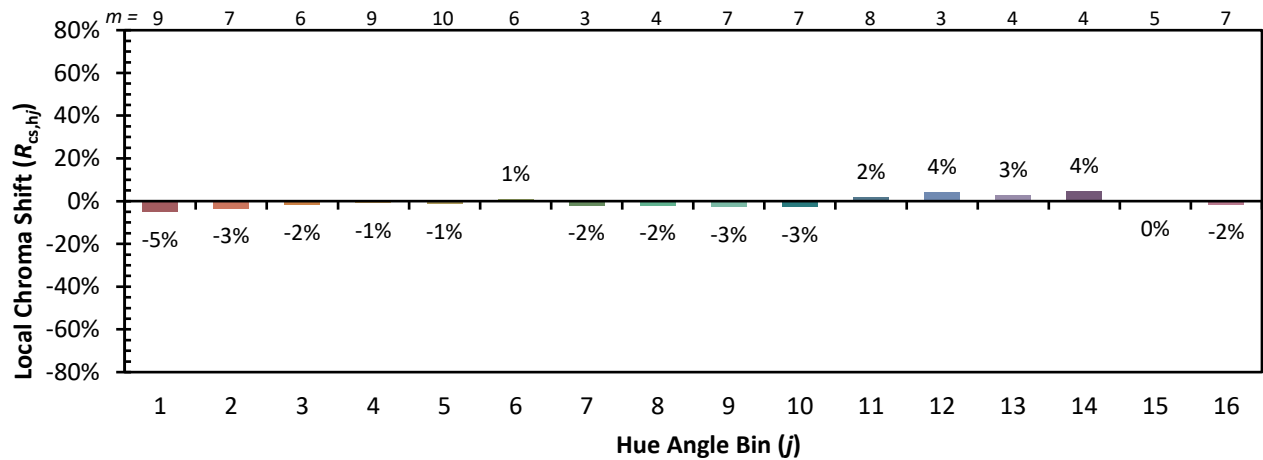
Color Vector Graphics



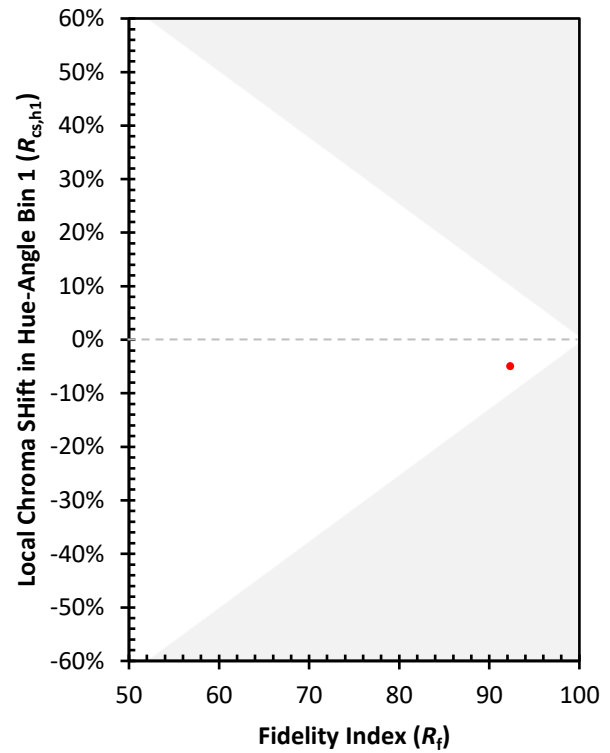
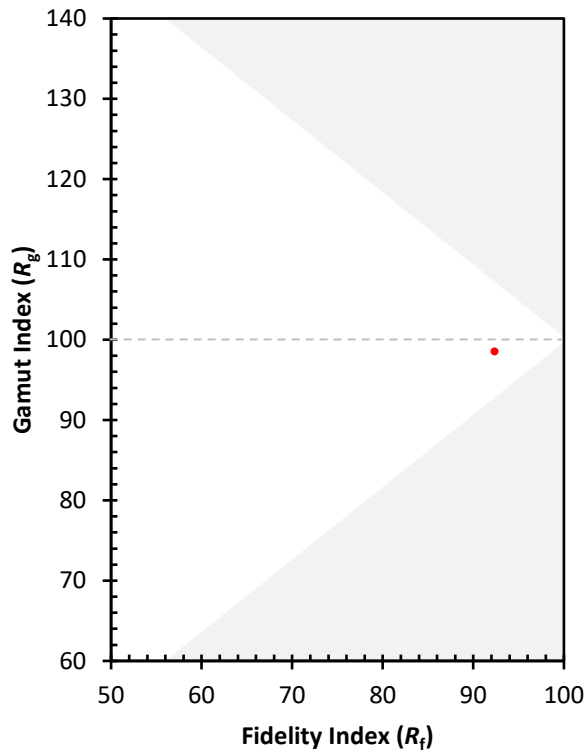
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 93	CES51 = 97	CES76 = 88
CES02 = 62	CES27 = 93	CES52 = 98	CES77 = 91
CES03 = 31	CES28 = 96	CES53 = 96	CES78 = 85
CES04 = 70	CES29 = 95	CES54 = 95	CES79 = 96
CES05 = 50	CES30 = 97	CES55 = 94	CES80 = 94
CES06 = 51	CES31 = 96	CES56 = 94	CES81 = 87
CES07 = 42	CES32 = 91	CES57 = 93	CES82 = 97
CES08 = 41	CES33 = 98	CES58 = 94	CES83 = 97
CES09 = 29	CES34 = 94	CES59 = 96	CES84 = 94
CES10 = 75	CES35 = 97	CES60 = 94	CES85 = 85
CES11 = 58	CES36 = 86	CES61 = 93	CES86 = 87
CES12 = 64	CES37 = 95	CES62 = 91	CES87 = 92
CES13 = 43	CES38 = 92	CES63 = 93	CES88 = 96
CES14 = 74	CES39 = 99	CES64 = 91	CES89 = 87
CES15 = 71	CES40 = 98	CES65 = 89	CES90 = 96
CES16 = 47	CES41 = 98	CES66 = 89	CES91 = 78
CES17 = 49	CES42 = 96	CES67 = 88	CES92 = 81
CES18 = 56	CES43 = 96	CES68 = 89	CES93 = 89
CES19 = 71	CES44 = 99	CES69 = 91	CES94 = 81
CES20 = 66	CES45 = 98	CES70 = 87	CES95 = 85
CES21 = 86	CES46 = 97	CES71 = 84	CES96 = 92
CES22 = 78	CES47 = 97	CES72 = 95	CES97 = 95
CES23 = 91	CES48 = 93	CES73 = 83	CES98 = 94
CES24 = 90	CES49 = 96	CES74 = 94	CES99 = 91
CES25 = 71	CES50 = 98	CES75 = 85	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)