

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: P1049610

Luminaire Tested: **GALN-SA2B-735-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049610
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-735-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 2xLight Square PACKAGE
70CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8217.4 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

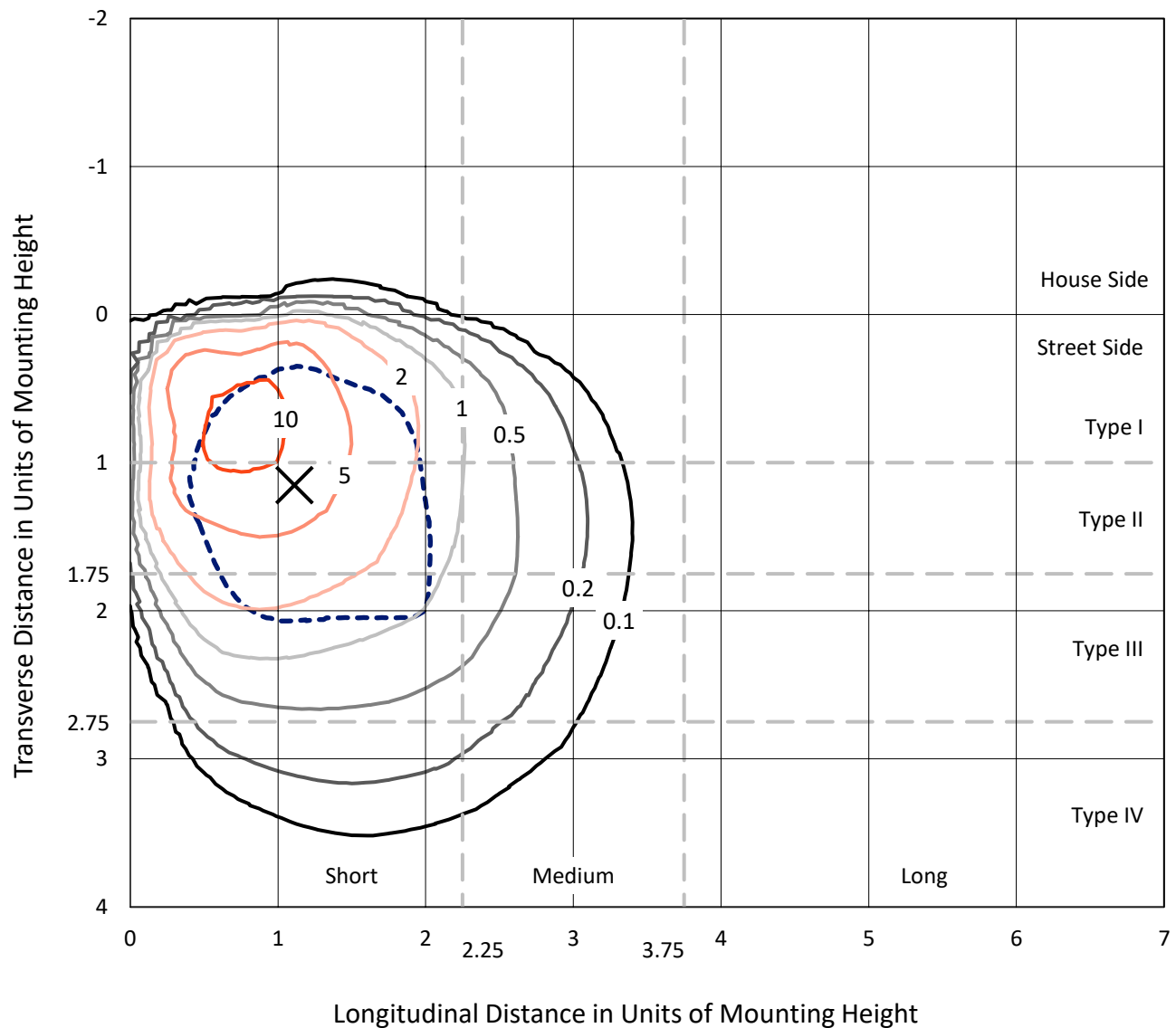
Input Watts (W): 72.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

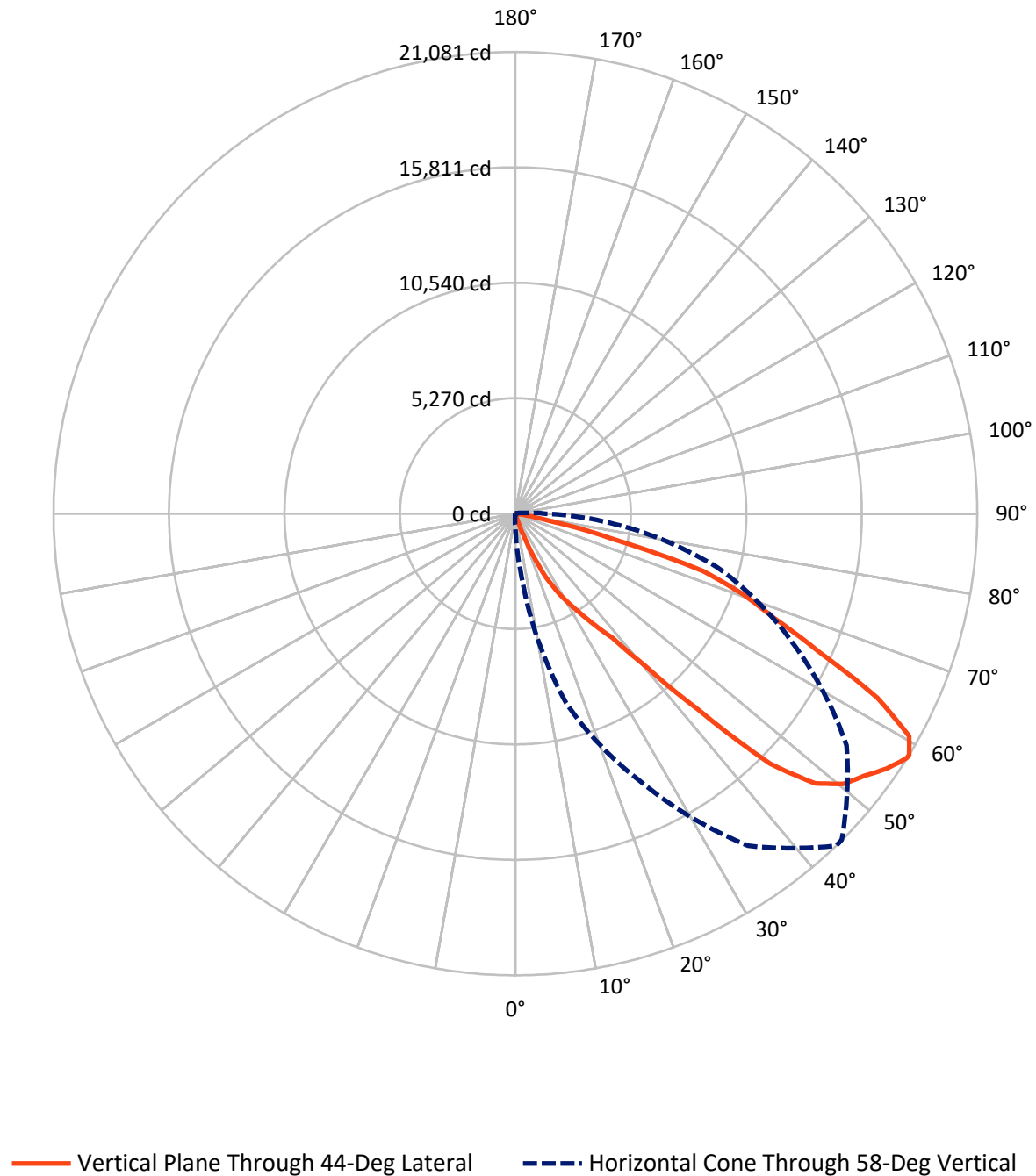
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 14.3 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	56.1	0.0	56.1
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	8161.2	0.0	8161.2
	% Fixture	99.3	0.0	99.3
Total	Lumens	8217.4	0.0	8217.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	0.0
10°-20°	18.0	0.2
20°-30°	194.7	2.4
30°-40°	575.7	7.0
40°-50°	1715.9	20.9
50°-60°	2722.7	33.1
60°-70°	2271.1	27.6
70°-80°	700.4	8.5
80°-90°	15.6	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°	8217.4	100.0
0°-180°	8217.4	100.0

Coefficient of Utilization



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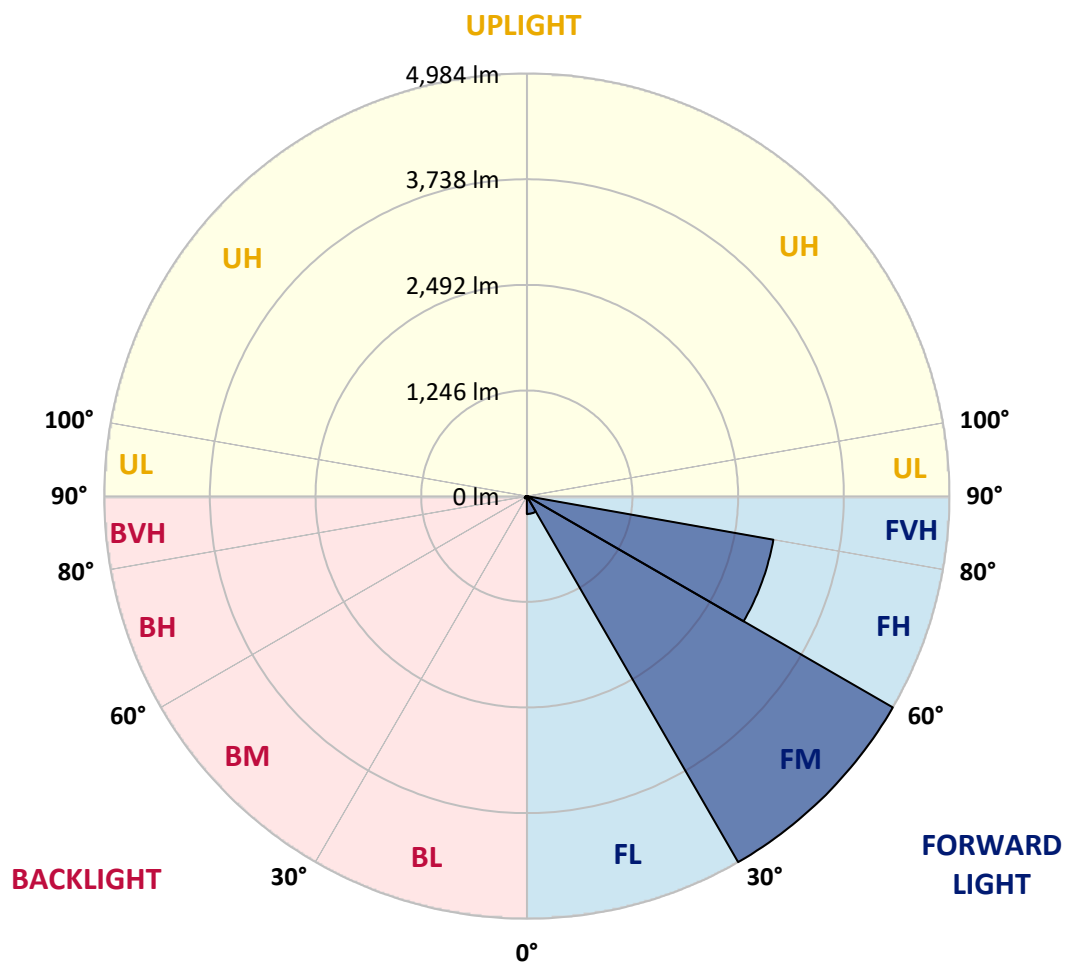
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	210.4	2.6			
FM	(30°-60°)	4983.7	60.6			
FH	(60°-80°)	2952.4	35.9			G2/5000
FVH	(80°-90°)	14.8	0.2			G1/100
BL	(0°-30°)	5.5	0.1	B0/110		
BM	(30°-60°)	30.7	0.4	B0/220		
BH	(60°-80°)	19.2	0.2	B0/110		G0/110
BVH	(80°-90°)	0.8	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
2.5°	46.6	46.6	44.7	42.2	39.7	37.2	36.6	35.4	34.8	34.1
5°	48.4	48.4	47.8	45.9	43.5	41.6	41.6	39.7	38.5	37.2
7.5°	49.7	50.3	51.5	50.9	49.7	47.8	47.8	46.6	44.7	41.6
10°	51.5	53.4	55.9	57.1	57.7	57.7	57.1	56.5	53.4	49.0
12.5°	53.4	57.1	63.3	69.5	73.2	78.2	77.6	76.4	68.3	59.0
15°	57.1	62.7	75.7	93.7	121.7	139.0	145.9	139.7	113.0	79.5
17.5°	61.5	70.8	109.9	196.2	321.5	381.1	417.1	388.0	257.0	150.8
20°	65.8	86.3	204.2	508.4	834.3	1029.2	1083.2	998.8	641.2	287.4
22.5°	73.2	121.0	414.0	1050.9	1797.7	2090.1	2145.3	1875.3	1211.1	567.4
25°	88.8	175.7	713.9	1712.7	2682.9	3176.4	3153.4	2799.6	1964.7	906.3
27.5°	111.1	255.7	1079.5	2433.3	3530.8	3966.0	4018.1	3580.5	2619.0	1332.8
30°	143.4	354.4	1471.8	3010.6	4210.6	4681.1	4689.8	4237.3	3204.3	1707.1
32.5°	174.4	447.6	1815.1	3568.7	4880.4	5396.2	5434.7	4877.9	3641.3	2096.9
35°	198.0	508.4	2162.7	4059.1	5555.7	6266.5	6264.0	5602.9	4159.0	2445.1
37.5°	199.9	569.2	2477.4	4560.7	6411.1	7206.9	7285.8	6557.0	4784.8	2875.9
40°	195.5	637.5	2875.9	5342.8	7952.5	9173.5	9243.0	8324.3	6039.9	3613.4
42.5°	200.5	756.1	3522.8	6787.3	10511.8	12265.4	12399.5	11433.6	8347.2	5118.1
45°	226.6	978.9	4877.9	9203.9	14160.0	16297.8	16253.1	14862.0	11032.0	7408.7
47.5°	312.9	1524.6	6886.6	11555.9	16491.5	18395.4	18433.8	16733.6	12598.8	9169.7
50°	481.1	2332.8	8574.4	12799.3	17494.0	19404.1	19368.1	17403.4	13194.1	10036.9
52.5°	625.7	2917.5	9421.1	13235.7	17622.5	19902.5	19900.1	17579.7	13286.6	10111.4
55°	661.7	2961.6	9428.0	13259.3	17910.6	20555.0	20636.9	18013.6	13406.4	9786.2
57.5°	647.4	2622.1	9034.4	13395.8	18423.3	21059.6	21064.0	18433.8	13710.5	9586.9
58°	635.0	2568.7	8955.0	13473.4	18511.4	21080.7	21070.2	18453.1	13958.2	9579.4
60°	565.5	2230.4	8645.2	13671.4	18380.5	20647.4	20548.7	18032.8	13921.6	9503.1
62.5°	444.5	1740.0	8340.4	13442.4	16976.3	18549.9	18590.9	15965.1	12691.3	9058.0
65°	353.8	1296.8	7704.8	11791.2	13979.3	15233.2	15386.0	12982.4	10593.1	7670.0
67.5°	281.8	937.3	6463.3	9387.6	11061.8	12713.6	12824.7	10899.8	8207.0	5876.7
70°	229.1	633.8	4461.3	6865.5	9123.8	10981.1	10987.9	9054.9	6125.6	3850.5
72.5°	203.0	438.9	2589.8	5007.0	7398.1	8948.1	8767.5	7347.8	4707.8	2280.6
75°	175.7	291.1	1270.1	3060.9	4485.6	4516.0	4584.9	3408.5	2353.3	1084.5
77.5°	144.6	206.7	500.3	836.2	1345.2	1722.0	1785.9	1353.2	782.8	266.9
80°	99.3	98.1	134.7	256.4	384.9	482.3	450.0	348.2	204.8	102.4
82.5°	42.8	46.6	60.8	73.2	59.6	57.7	55.2	35.4	27.3	21.1
85°	13.7	12.4	13.0	13.0	10.6	8.1	8.1	3.7	0.0	0.0
87.5°	6.8	5.6	5.6	5.0	3.1	1.2	0.6	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°
36.0	0°	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
33.5	2.5°	32.9	32.9	31.7	30.4	29.8	28.6	27.9	27.3	26.7	26.1
36.0	5°	34.8	34.1	32.3	30.4	28.6	26.7	25.5	24.2	23.0	22.3
39.7	7.5°	37.9	36.6	32.9	29.8	27.3	24.8	23.6	21.7	20.5	18.6
44.1	10°	41.6	39.1	34.1	30.4	26.7	23.6	21.7	19.9	18.0	15.5
50.3	12.5°	46.6	42.2	36.0	29.8	25.5	21.7	19.9	17.4	15.5	13.7
58.4	15°	50.9	45.3	36.6	29.8	24.2	19.9	17.4	14.9	13.0	10.6
73.2	17.5°	57.1	47.8	36.0	27.9	22.3	17.4	14.9	13.0	9.9	6.2
108.6	20°	67.7	49.7	34.8	26.1	19.2	14.3	11.2	8.7	4.3	1.2
163.3	22.5°	84.4	54.6	33.5	23.6	16.8	11.2	7.4	3.1	0.0	0.0
248.3	25°	116.7	63.3	33.5	22.3	14.9	8.1	2.5	0.0	0.0	0.0
352.6	27.5°	155.2	75.1	33.5	19.2	11.8	4.3	0.0	0.0	0.0	0.0
480.5	30°	194.3	88.1	33.5	16.8	9.3	0.6	0.0	0.0	0.0	0.0
591.6	32.5°	231.5	99.3	34.1	14.3	6.2	0.0	0.0	0.0	0.0	0.0
745.5	35°	269.4	101.2	33.5	12.4	3.7	0.0	0.0	0.0	0.0	0.0
934.2	37.5°	317.8	97.5	31.7	11.2	1.9	0.0	0.0	0.0	0.0	0.0
1229.1	40°	391.1	99.3	29.8	10.6	0.6	0.0	0.0	0.0	0.0	0.0
1754.9	42.5°	526.4	107.4	27.3	10.6	0.0	0.0	0.0	0.0	0.0	0.0
2795.2	45°	910.0	144.0	24.8	11.2	0.0	0.0	0.0	0.0	0.0	0.0
4196.3	47.5°	1505.3	258.9	24.2	11.2	0.0	0.0	0.0	0.0	0.0	0.0
5054.8	50°	1921.2	325.9	25.5	11.8	0.0	0.0	0.0	0.0	0.0	0.0
5162.2	52.5°	1918.1	363.1	26.7	12.4	2.5	0.0	0.0	0.0	0.0	0.0
4758.1	55°	1705.2	370.0	28.6	13.7	8.1	0.0	0.0	0.0	0.0	0.0
4088.9	57.5°	1425.2	337.7	32.9	16.8	14.9	0.0	0.0	0.0	0.0	0.0
3984.0	58°	1375.6	322.8	34.1	17.4	16.1	0.0	0.0	0.0	0.0	0.0
3455.7	60°	1127.3	263.2	43.5	21.7	21.7	0.0	0.0	0.0	0.0	0.0
2833.1	62.5°	778.4	229.7	49.7	27.9	22.3	0.0	0.0	0.0	0.0	0.0
2088.8	65°	550.6	207.3	54.0	29.8	18.0	0.0	0.0	0.0	0.0	0.0
1484.2	67.5°	411.6	191.2	59.6	30.4	9.3	0.0	0.0	0.0	0.0	0.0
931.1	70°	315.3	179.4	73.2	32.3	2.5	0.0	0.0	0.0	0.0	0.0
555.0	72.5°	257.0	165.7	88.8	33.5	0.0	0.0	0.0	0.0	0.0	0.0
332.7	75°	212.9	149.6	85.7	36.6	0.0	0.0	0.0	0.0	0.0	0.0
177.5	77.5°	141.5	116.1	78.2	36.6	0.0	0.0	0.0	0.0	0.0	0.0
63.3	80°	49.7	45.9	60.8	32.3	0.0	0.0	0.0	0.0	0.0	0.0
13.0	82.5°	7.4	6.2	8.7	11.2	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°
36.0	0°	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
25.5	2.5°	25.5	25.5	24.8	25.5	25.5	26.7	29.8	34.1	39.1	41.0
21.7	5°	21.1	20.5	19.9	19.9	19.9	21.7	24.2	29.2	34.8	37.2
18.0	7.5°	17.4	16.8	16.1	15.5	15.5	16.8	19.9	25.5	31.0	33.5
14.9	10°	14.3	13.0	12.4	11.8	11.8	13.0	16.1	21.7	27.9	30.4
12.4	12.5°	11.8	9.9	8.7	8.1	7.4	9.3	12.4	17.4	24.2	27.3
9.3	15°	8.1	6.2	4.3	3.7	3.1	5.0	8.1	13.7	20.5	24.2
5.0	17.5°	4.3	1.9	0.6	0.0	0.0	1.2	3.7	9.9	16.8	19.9
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	12.4	15.5
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	7.4	10.6
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	5.6
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
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	1.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.0
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):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
36.0	0°	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
42.8	2.5°	44.1	43.5	42.2	41.0	41.0	41.0	42.8	44.7	46.6	46.6
38.5	5°	41.0	41.0	40.3	39.1	39.1	39.7	42.2	45.3	47.8	48.4
35.4	7.5°	37.9	39.1	37.9	37.2	37.9	38.5	41.0	44.7	48.4	49.7
32.9	10°	36.0	36.6	36.6	36.0	36.0	37.2	39.7	44.7	49.7	51.5
29.8	12.5°	33.5	34.8	34.1	34.1	34.1	35.4	38.5	44.1	50.9	53.4
26.7	15°	31.0	32.9	32.9	32.3	32.3	32.9	37.2	43.5	52.8	57.1
23.0	17.5°	28.6	30.4	31.0	29.8	29.8	31.0	35.4	43.5	54.0	61.5
18.6	20°	23.6	26.7	28.6	26.7	26.7	27.9	32.3	41.0	54.6	65.8
13.7	22.5°	18.6	21.7	24.2	23.6	23.6	24.2	29.8	39.1	55.2	73.2
8.1	25°	13.7	16.8	18.6	19.9	19.9	21.7	27.3	37.9	57.7	88.8
3.7	27.5°	8.1	11.8	14.3	15.5	16.1	18.6	25.5	36.6	62.1	111.1
0.0	30°	3.7	6.8	9.9	12.4	12.4	16.8	23.6	35.4	67.7	143.4
0.0	32.5°	0.0	3.1	5.0	8.7	9.3	13.7	21.7	34.1	75.7	174.4
0.0	35°	0.0	0.0	2.5	6.8	6.8	11.2	19.9	32.9	88.1	198.0
0.0	37.5°	0.0	0.0	0.0	5.0	5.6	9.9	19.2	32.3	90.6	199.9
0.0	40°	0.0	0.0	0.0	3.7	4.3	9.3	19.2	32.9	81.9	195.5
0.0	42.5°	0.0	0.0	0.0	2.5	3.1	9.3	19.2	34.1	73.9	200.5
0.0	45°	0.0	0.0	0.0	1.9	2.5	9.9	18.6	33.5	69.5	226.6
0.0	47.5°	0.0	0.0	0.0	2.5	3.7	9.9	18.0	32.9	70.1	312.9
0.0	50°	0.0	0.0	0.0	3.1	4.3	9.9	18.6	31.7	77.0	481.1
0.0	52.5°	0.0	0.0	0.0	2.5	3.7	11.2	20.5	31.0	83.8	625.7
0.0	55°	0.0	0.0	0.0	0.6	1.9	14.3	22.3	31.0	94.4	661.7
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	16.1	25.5	32.9	111.7	647.4
0.0	58°	0.0	0.0	0.0	0.0	0.0	16.1	26.1	32.9	113.0	635.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	16.1	28.6	36.6	121.7	565.5
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	13.7	34.1	45.9	126.6	444.5
0.0	65°	0.0	0.0	0.0	0.0	0.0	11.2	40.3	50.3	130.4	353.8
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	10.6	41.6	50.9	132.2	281.8
0.0	70°	0.0	0.0	0.0	0.0	0.0	11.2	41.0	54.6	138.4	229.1
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	12.4	37.2	60.2	138.4	203.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	13.0	34.8	67.7	126.0	175.7
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	12.4	34.1	78.8	112.4	144.6
0.0	80°	1.2	1.9	1.9	1.2	1.2	10.6	33.5	80.1	95.6	99.3
0.6	82.5°	3.7	5.0	4.3	3.1	3.1	9.3	29.8	67.0	49.7	42.8
3.7	85°	6.8	8.1	8.1	6.8	6.8	8.7	18.6	24.2	16.8	13.7
6.8	87.5°	9.3	10.6	10.6	9.3	9.3	8.7	8.1	7.4	6.8	6.8
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: SP1-2407-184-5

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-735-U-5WQ

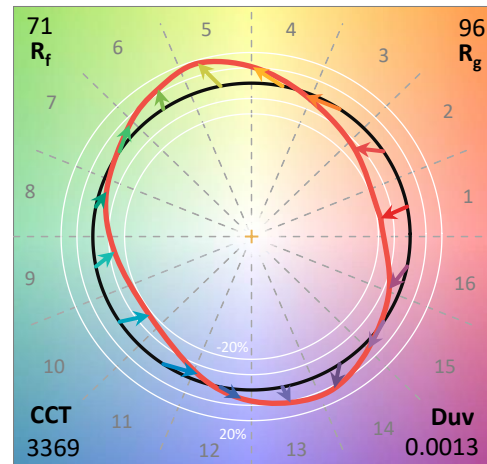
Data in this report applies to families of products including GSS-SB1A-735-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-5
 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-735-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K):	3369	CRI (Ra):	70.1		
CIE u':	0.2386	R1:	66.6	R9:	-40.2
CIE v':	0.5156	R2:	77.6	R10:	49.1
Duv:	0.0013	R3:	88.5	R11:	66.3
CIE x:	0.4143	R4:	69.5	R12:	45.7
CIE y:	0.3980	R5:	66.4	R13:	68.0
CIE z:	0.1877	R6:	69.6	R14:	93.4
Peak Wavelength (nm):	590	R7:	77.5	R15:	57.6
Dominant Wavelength (nm):	580	R8:	44.9		
Purity:	43.80166				
Rf:	71.4				
Rg:	96				



Test Conditions

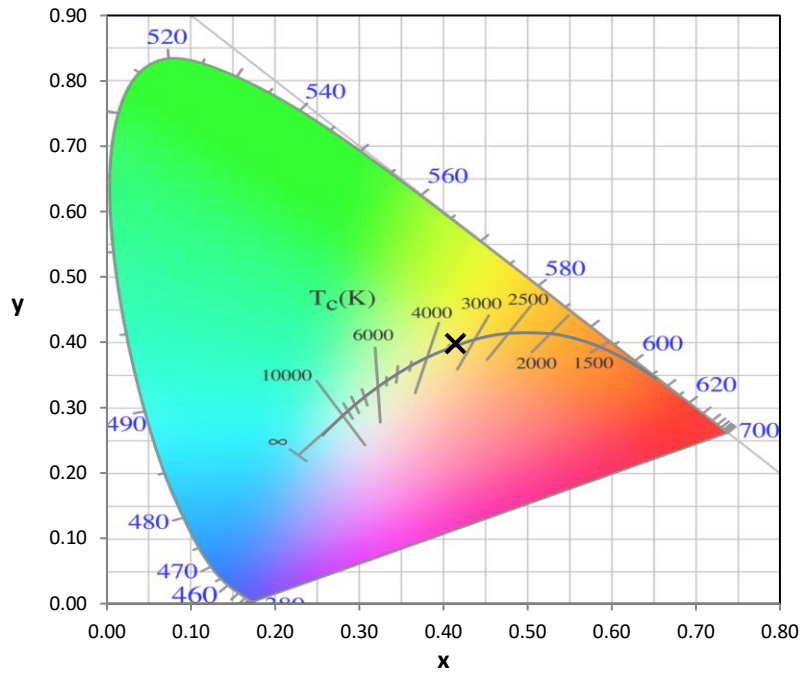
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-5

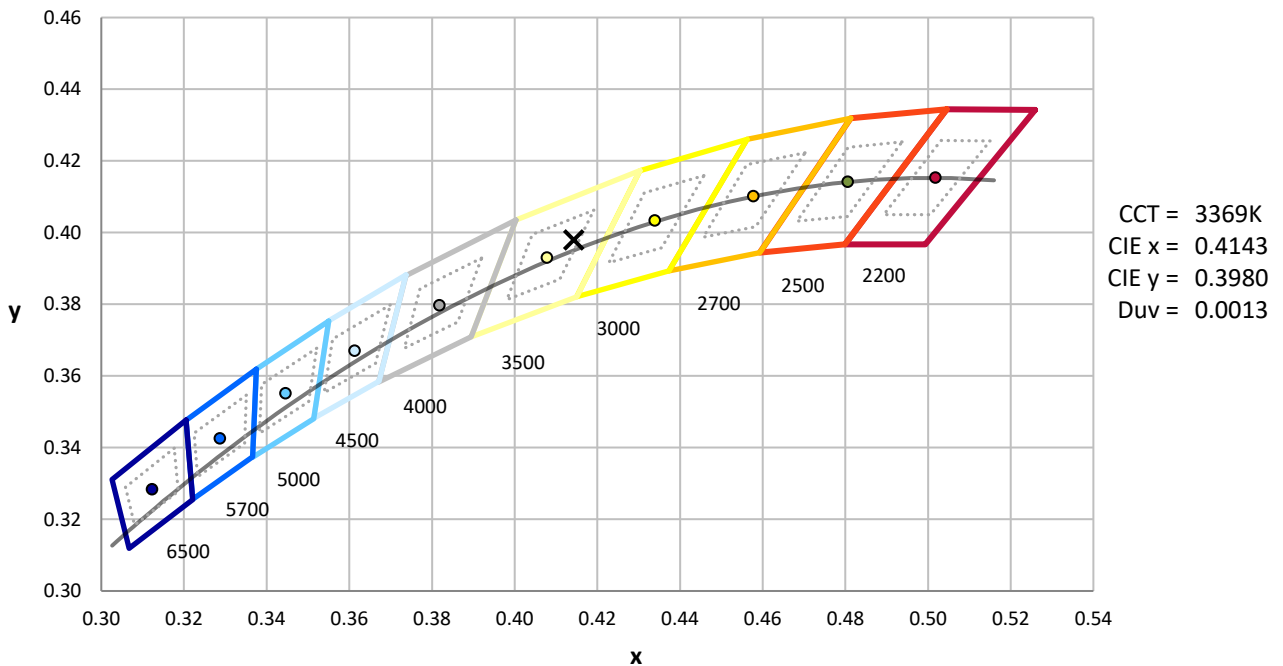
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



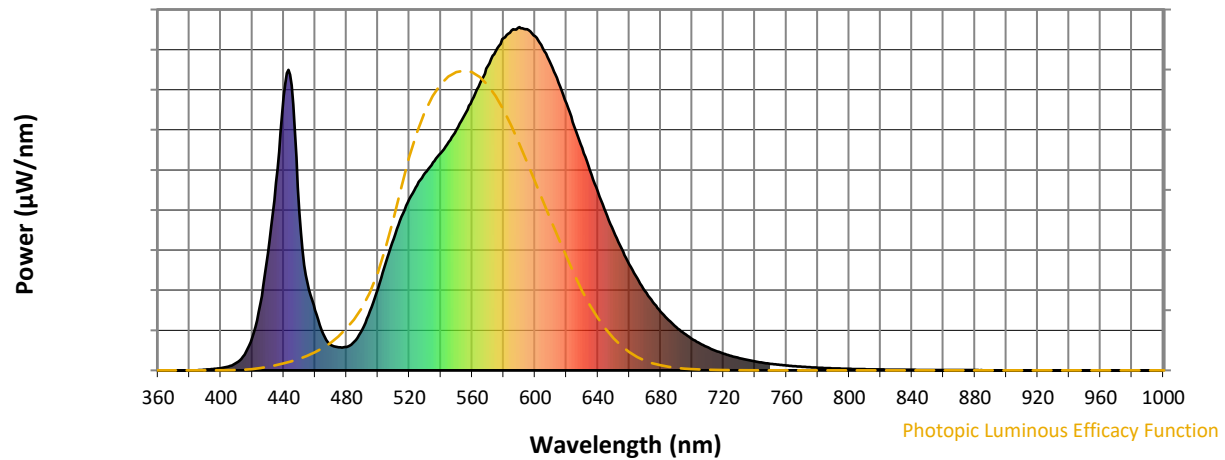
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-5

Photopic Flux vs. Wavelength

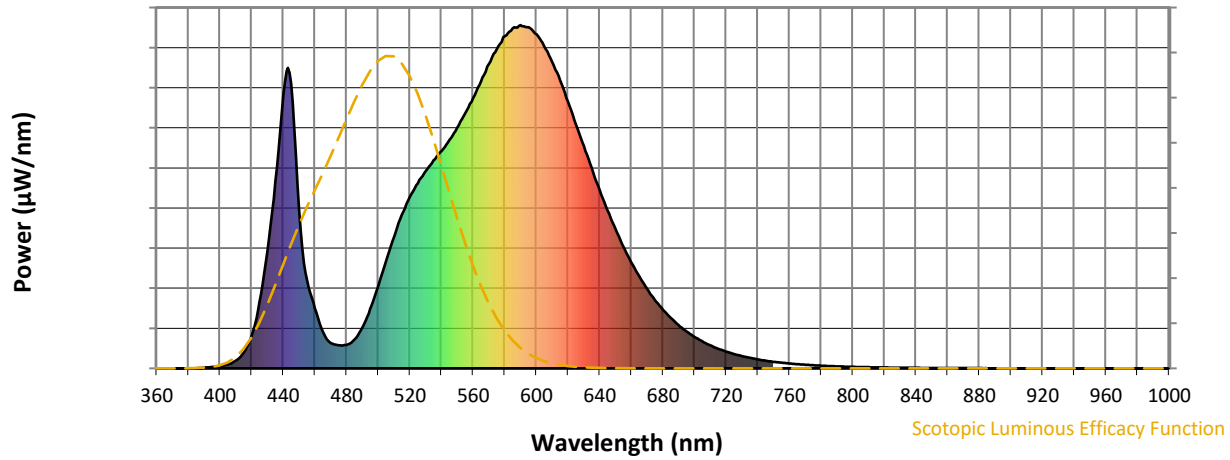


Photopic Lumens: NR

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

Scotopic Flux vs. Wavelength



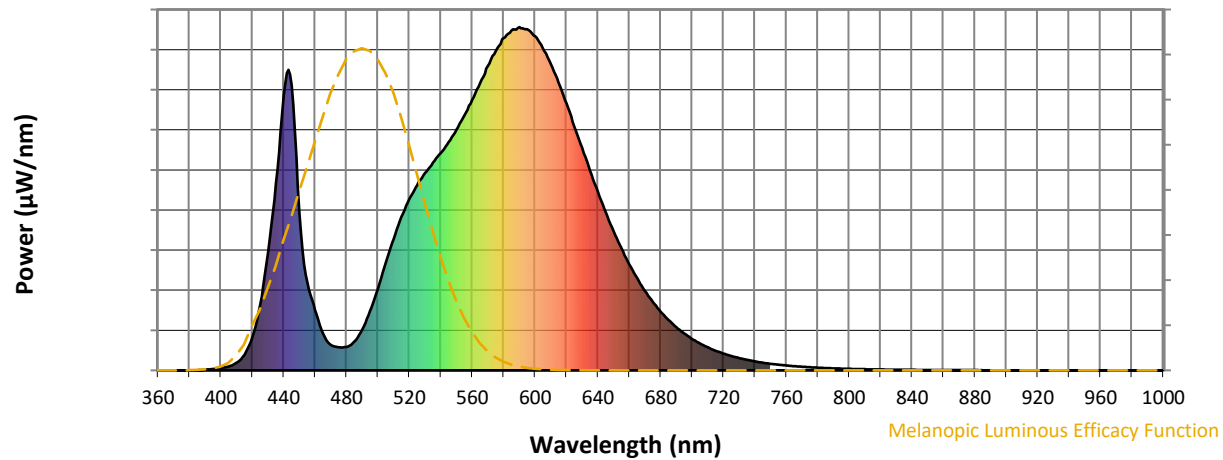
Scotopic Lumens: NR

S/P: 1.29

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.36

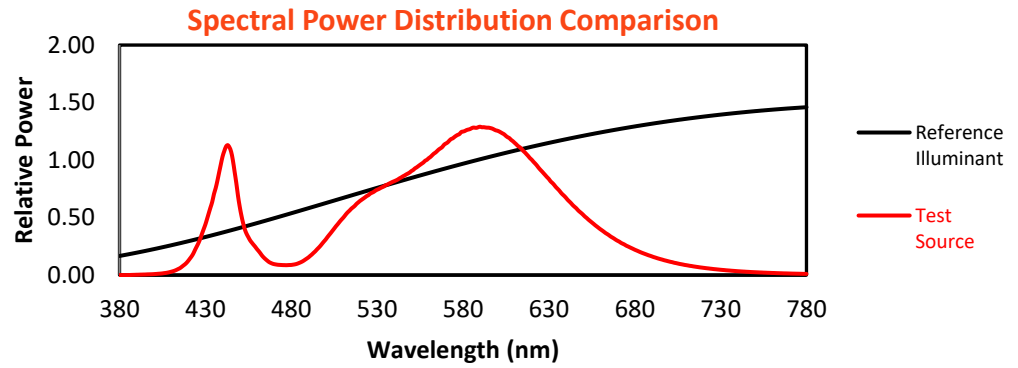
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

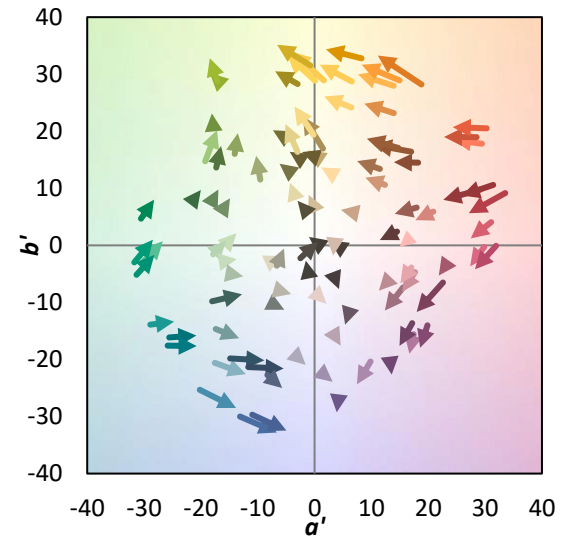
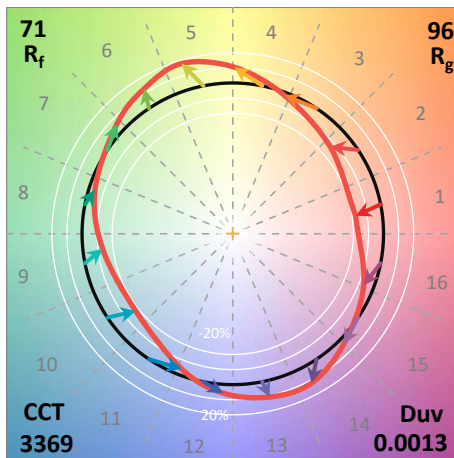
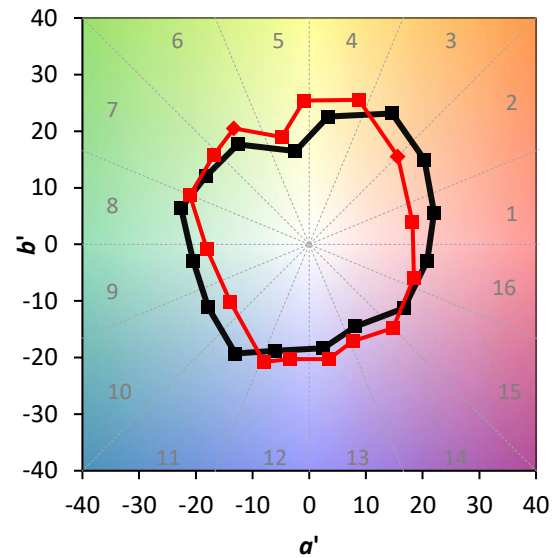
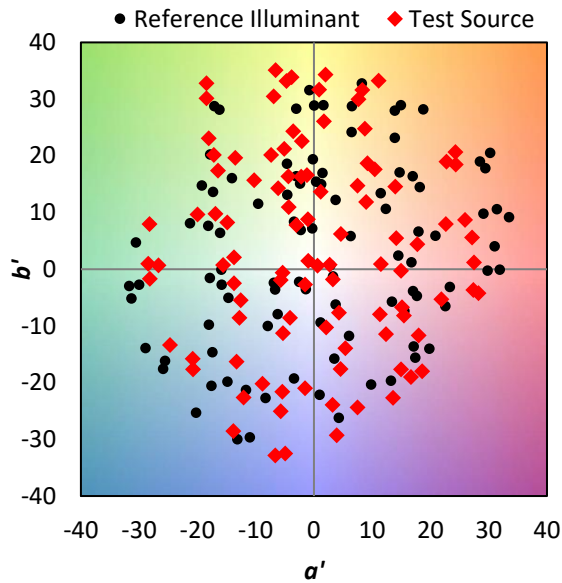
TM-30-18

Summary

$R_f = 71.4$
 $R_g = 96$
 $CIE R_a = 70.1$
 $R_g = -40.2$

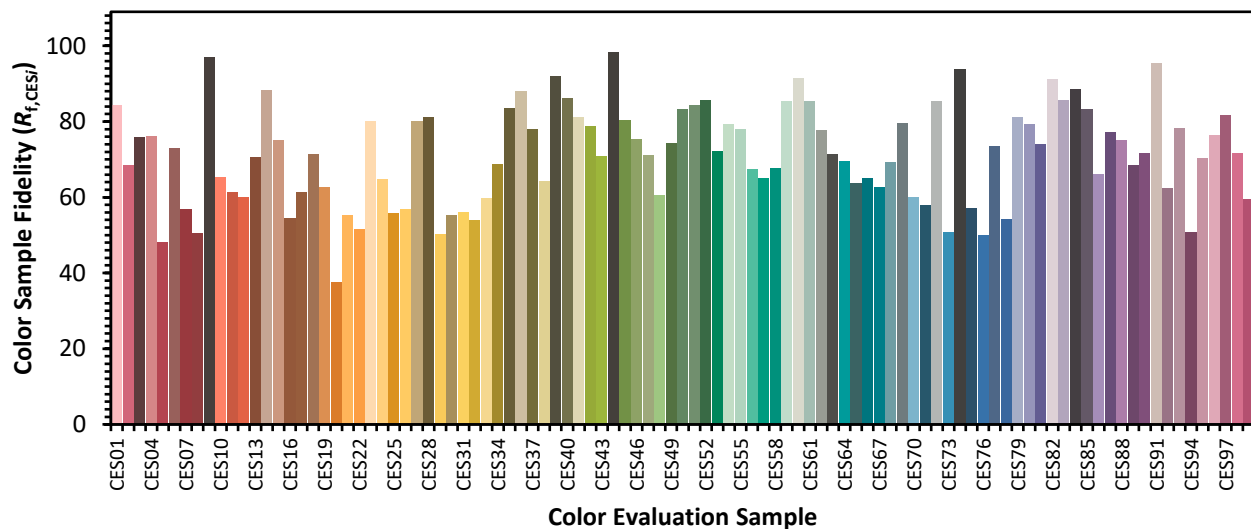


Color Vector Graphics

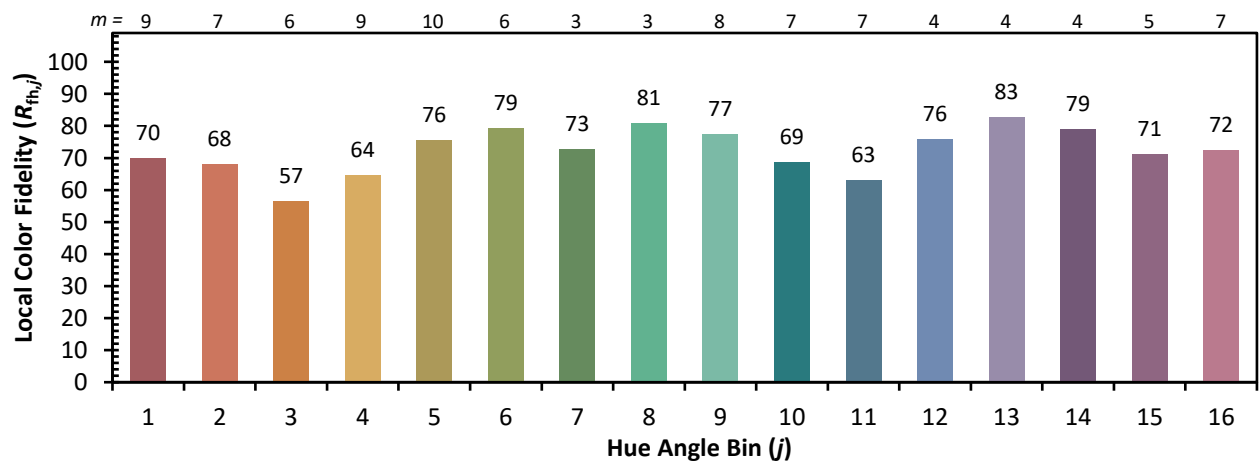
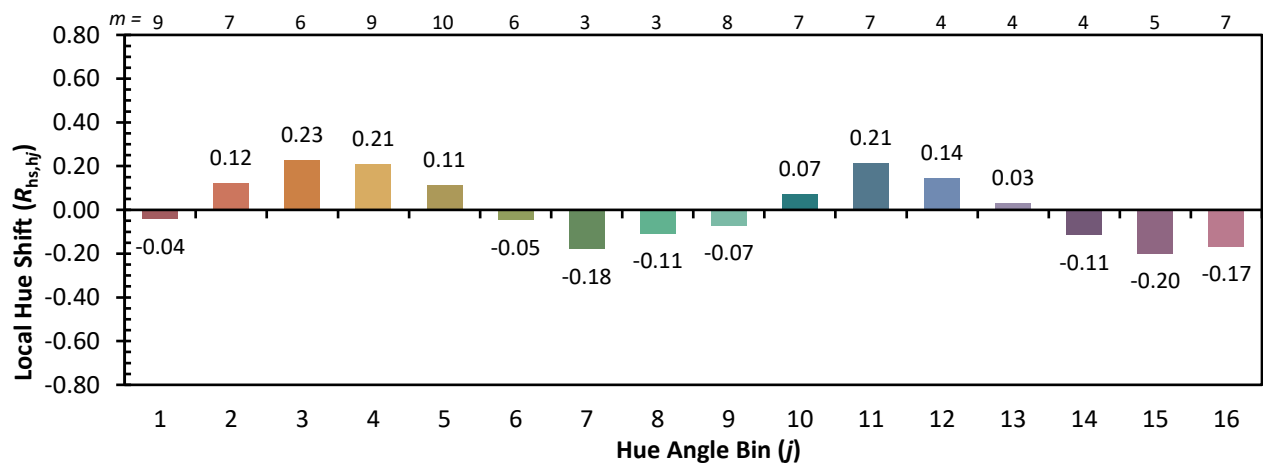
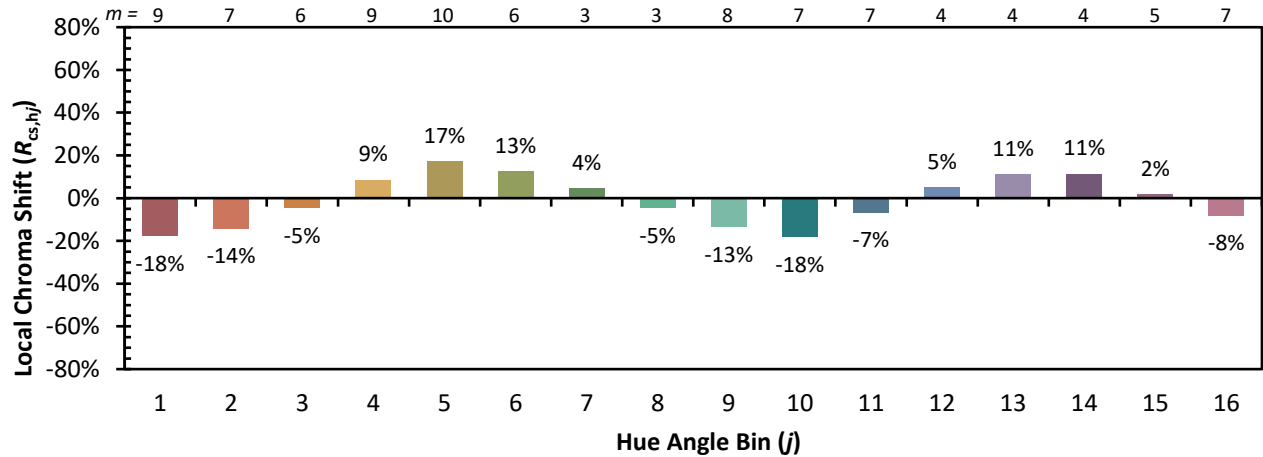


Individual Sample Fidelity Index ($R_{f,i}$)

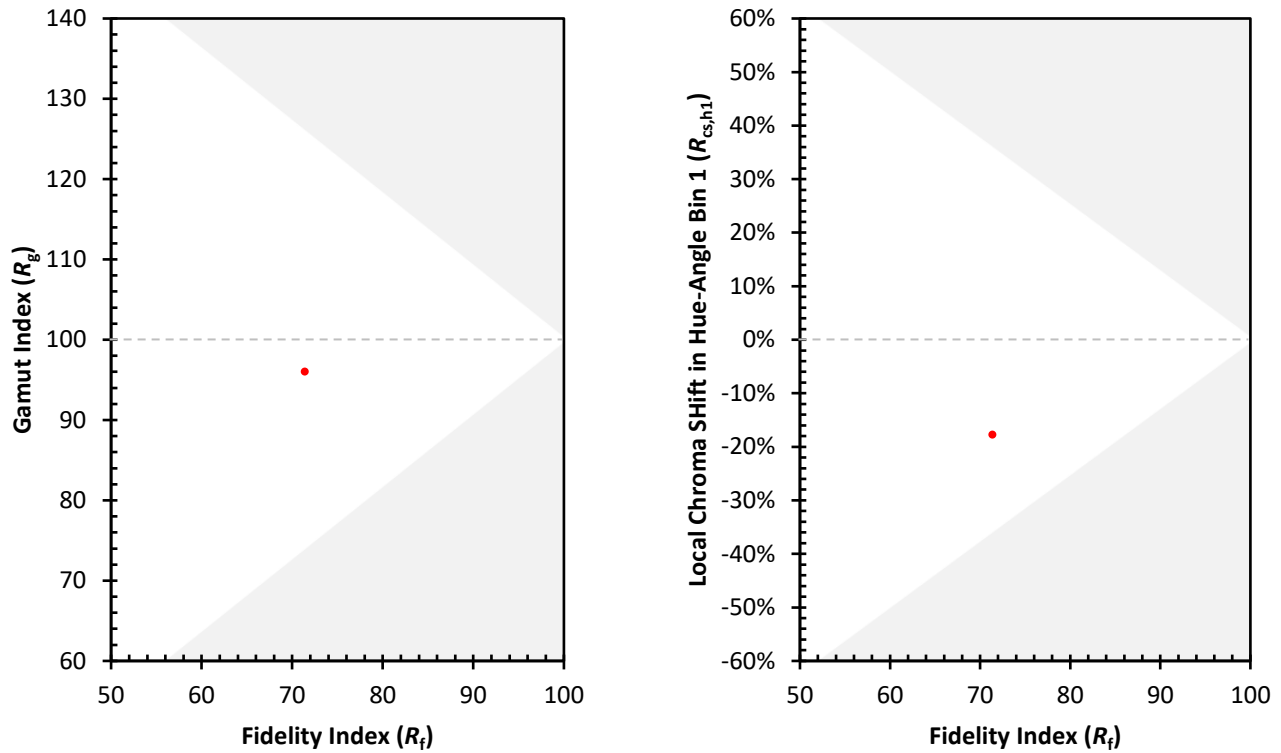
CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82 = 91
CES08 = 39	CES33 = 60	CES58 = 68	CES83 = 86
CES09 = 29	CES34 = 69	CES59 = 85	CES84 = 89
CES10 = 75	CES35 = 83	CES60 = 91	CES85 = 83
CES11 = 58	CES36 = 88	CES61 = 85	CES86 = 66
CES12 = 64	CES37 = 78	CES62 = 78	CES87 = 77
CES13 = 43	CES38 = 64	CES63 = 71	CES88 = 75
CES14 = 74	CES39 = 92	CES64 = 70	CES89 = 68
CES15 = 71	CES40 = 86	CES65 = 64	CES90 = 72
CES16 = 47	CES41 = 81	CES66 = 65	CES91 = 95
CES17 = 50	CES42 = 79	CES67 = 63	CES92 = 62
CES18 = 56	CES43 = 71	CES68 = 69	CES93 = 78
CES19 = 72	CES44 = 98	CES69 = 80	CES94 = 51
CES20 = 65	CES45 = 80	CES70 = 60	CES95 = 70
CES21 = 87	CES46 = 75	CES71 = 58	CES96 = 76
CES22 = 79	CES47 = 71	CES72 = 85	CES97 = 82
CES23 = 92	CES48 = 61	CES73 = 51	CES98 = 72
CES24 = 91	CES49 = 74	CES74 = 94	CES99 = 60
CES25 = 72	CES50 = 83	CES75 = 57	



REPORT NUMBER: SP1-2407-184-5

TM-30-18
Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)