

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: P1049549

Luminaire Tested: **GALN-SA5A-727-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049549
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-727-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 5xLight Square PACKAGE
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14741.5 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 136.6
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

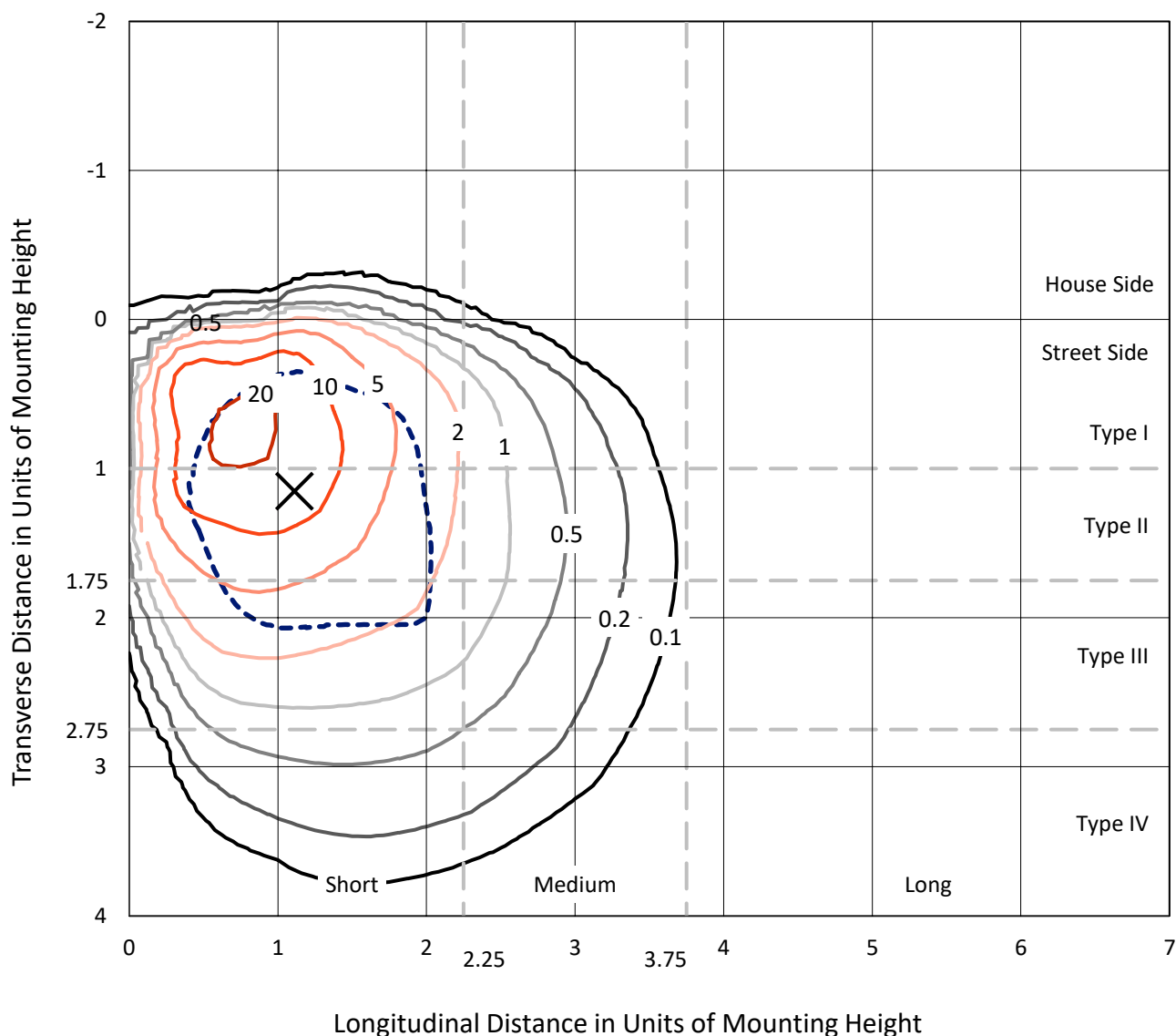
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

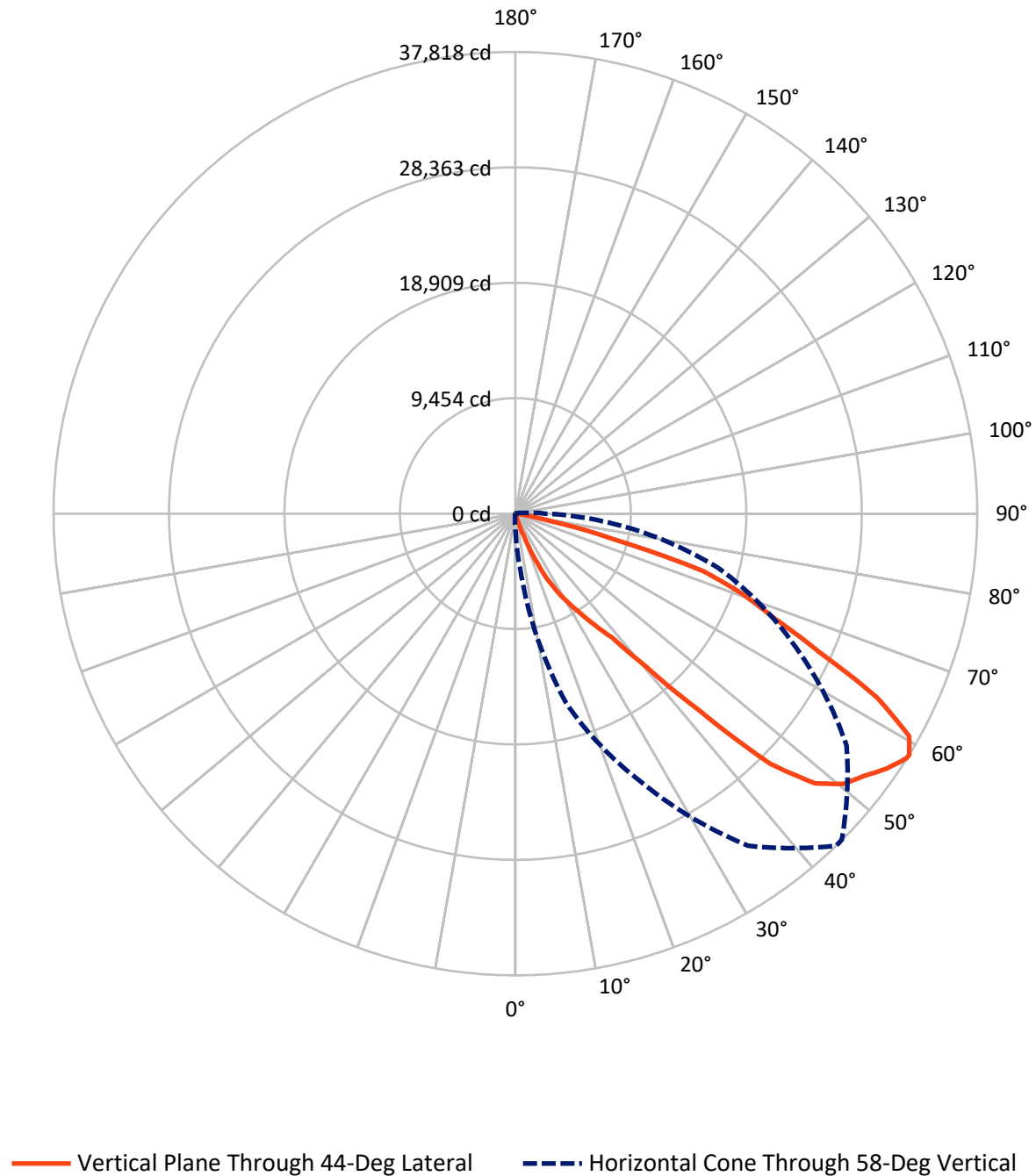


Based on 20 foot mounting height. Maximum calculated value = 25.7 fc

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	100.7	0.0	100.7
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	14640.9	0.0	14640.9
	% Fixture	99.3	0.0	99.3
Total	Lumens	14741.5	0.0	14741.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.8	0.0
10°-20°	32.3	0.2
20°-30°	349.2	2.4
30°-40°	1032.8	7.0
40°-50°	3078.3	20.9
50°-60°	4884.5	33.1
60°-70°	4074.2	27.6
70°-80°	1256.6	8.5
80°-90°	27.9	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°	14741.5	100.0
0°-180°	14741.5	100.0



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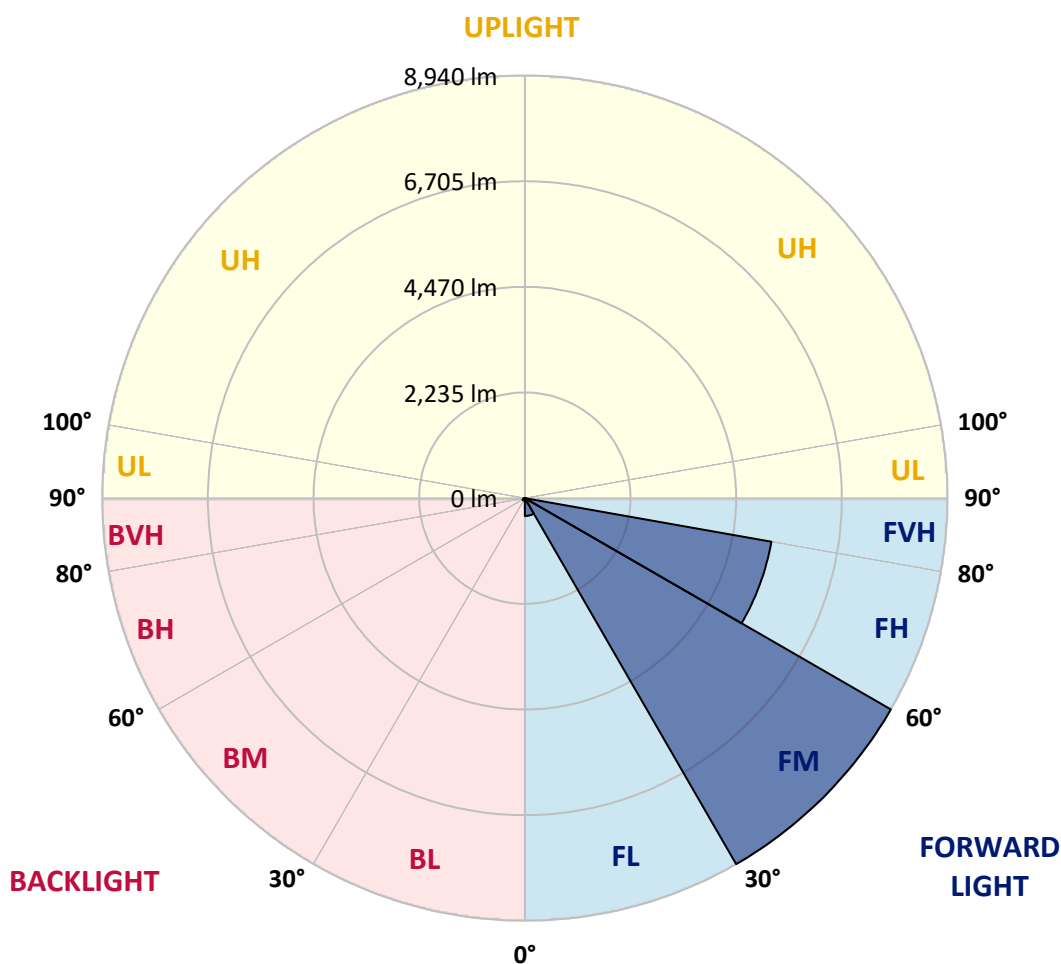
CATALOG NUMBER: GALN-SA5A-727-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	377.5	2.6			
FM	(30°-60°)	8940.4	60.6			
FH	(60°-80°)	5296.4	35.9			G3/7500
FVH	(80°-90°)	26.6	0.2			G1/100
BL	(0°-30°)	9.8	0.1	B0/110		
BM	(30°-60°)	55.1	0.4	B0/220		
BH	(60°-80°)	34.4	0.2	B0/110		G0/110
BVH	(80°-90°)	1.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
2.5°	83.5	83.5	80.2	75.7	71.3	66.8	65.7	63.5	62.4	61.2	60.1
5°	86.9	86.9	85.7	82.4	78.0	74.6	74.6	71.3	69.0	66.8	64.6
7.5°	89.1	90.2	92.4	91.3	89.1	85.7	85.7	83.5	80.2	74.6	71.3
10°	92.4	95.8	100.2	102.5	103.6	103.6	102.5	101.3	95.8	88.0	79.1
12.5°	95.8	102.5	113.6	124.7	131.4	140.3	139.2	137.0	122.5	105.8	90.2
15°	102.5	112.5	135.9	168.2	218.3	249.4	261.7	250.6	202.7	142.5	104.7
17.5°	110.2	126.9	197.1	351.9	576.8	683.7	748.3	696.0	461.0	270.6	131.4
20°	118.0	154.8	366.4	912.0	1496.7	1846.3	1943.2	1791.8	1150.3	515.6	194.9
22.5°	131.4	217.2	742.8	1885.3	3225.0	3749.5	3848.6	3364.2	2172.6	1017.8	292.9
25°	159.2	315.1	1280.6	3072.4	4813.0	5698.3	5657.1	5022.3	3524.5	1625.8	445.4
27.5°	199.3	458.8	1936.5	4365.3	6334.1	7114.8	7208.3	6423.2	4698.3	2390.9	632.5
30°	257.2	635.9	2640.3	5400.9	7553.5	8397.6	8413.2	7601.4	5748.4	3062.4	861.9
32.5°	312.9	802.9	3256.2	6402.1	8755.1	9680.5	9749.5	8750.6	6532.4	3761.7	1061.3
35°	355.2	912.0	3879.8	7281.8	9966.7	11241.7	11237.3	10051.3	7461.1	4386.5	1337.4
37.5°	358.6	1021.2	4444.4	8181.6	11501.2	12928.8	13070.3	11762.9	8583.6	5159.3	1676.0
40°	350.8	1143.7	5159.3	9584.7	14266.3	16456.7	16581.4	14933.3	10835.3	6482.2	2204.9
42.5°	359.7	1356.4	6319.7	12176.1	18857.6	22003.5	22244.1	20511.3	14974.5	9181.6	3148.1
45°	406.5	1756.1	8750.6	16511.3	25402.2	29237.5	29157.3	26661.7	19790.8	13290.8	5014.5
47.5°	561.3	2735.0	12354.2	20730.7	29584.9	33000.3	33069.3	30019.2	22601.5	16450.0	7527.9
50°	863.0	4184.9	15382.1	22961.2	31383.4	34809.9	34745.3	31220.8	23669.5	18005.7	9068.0
52.5°	1122.5	5233.9	16901.0	23744.1	31613.9	35704.1	35699.7	31537.0	23835.4	18139.4	9260.7
55°	1187.1	5313.0	16913.3	23786.4	32130.6	36874.5	37021.5	32315.4	24050.3	17555.8	8535.7
57.5°	1161.5	4703.8	16207.3	24031.4	33050.4	37779.9	37787.6	33069.3	24596.0	17198.4	7335.3
58°	1139.2	4608.1	16064.7	24170.6	33208.5	37817.7	37798.8	33103.9	25040.3	17185.0	7147.1
60°	1014.5	4001.1	15509.0	24525.8	32973.6	37040.4	36863.4	32350.0	24974.6	17048.0	6199.4
62.5°	797.3	3121.4	14962.3	24114.9	30454.6	33277.6	33351.1	28640.6	22767.5	16249.6	5082.5
65°	634.7	2326.3	13822.0	21152.8	25078.2	27327.6	27601.6	23289.7	19003.5	13759.6	3747.2
67.5°	505.6	1681.5	11594.8	16840.9	19844.3	22807.6	23006.9	19553.6	14722.8	10542.4	2662.6
70°	410.9	1137.0	8003.4	12316.4	16367.6	19699.5	19711.8	16244.0	10989.0	6907.6	1670.4
72.5°	364.1	787.3	4645.9	8982.3	13271.8	16052.5	15728.4	13181.6	8445.5	4091.4	995.6
75°	315.1	522.3	2278.4	5491.1	8046.8	8101.4	8225.0	6114.8	4221.6	1945.5	596.9
77.5°	259.5	370.8	897.6	1500.0	2413.2	3089.1	3203.8	2427.6	1404.2	478.8	318.5
80°	178.2	175.9	241.7	459.9	690.4	865.3	807.4	624.7	367.5	183.7	113.6
82.5°	76.8	83.5	109.1	131.4	106.9	103.6	99.1	63.5	49.0	37.9	23.4
85°	24.5	22.3	23.4	23.4	18.9	14.5	14.5	6.7	0.0	0.0	0.0
87.5°	12.2	10.0	10.0	8.9	5.6	2.2	1.1	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
2.5°	59.0	59.0	56.8	54.6	53.5	51.2	50.1	49.0	47.9	46.8	45.7
5°	62.4	61.2	57.9	54.6	51.2	47.9	45.7	43.4	41.2	40.1	39.0
7.5°	67.9	65.7	59.0	53.5	49.0	44.5	42.3	39.0	36.7	33.4	32.3
10°	74.6	70.2	61.2	54.6	47.9	42.3	39.0	35.6	32.3	27.8	26.7
12.5°	83.5	75.7	64.6	53.5	45.7	39.0	35.6	31.2	27.8	24.5	22.3
15°	91.3	81.3	65.7	53.5	43.4	35.6	31.2	26.7	23.4	18.9	16.7
17.5°	102.5	85.7	64.6	50.1	40.1	31.2	26.7	23.4	17.8	11.1	8.9
20°	121.4	89.1	62.4	46.8	34.5	25.6	20.0	15.6	7.8	2.2	0.0
22.5°	151.4	98.0	60.1	42.3	30.1	20.0	13.4	5.6	0.0	0.0	0.0
25°	209.4	113.6	60.1	40.1	26.7	14.5	4.5	0.0	0.0	0.0	0.0
27.5°	278.4	134.7	60.1	34.5	21.2	7.8	0.0	0.0	0.0	0.0	0.0
30°	348.6	158.1	60.1	30.1	16.7	1.1	0.0	0.0	0.0	0.0	0.0
32.5°	415.4	178.2	61.2	25.6	11.1	0.0	0.0	0.0	0.0	0.0	0.0
35°	483.3	181.5	60.1	22.3	6.7	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	570.2	174.8	56.8	20.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0
40°	701.6	178.2	53.5	18.9	1.1	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	944.3	192.7	49.0	18.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1632.5	258.4	44.5	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2700.5	464.4	43.4	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3446.6	584.6	45.7	21.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3441.0	651.5	47.9	22.3	4.5	0.0	0.0	0.0	0.0	0.0	0.0
55°	3059.0	663.7	51.2	24.5	14.5	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	2556.8	605.8	59.0	30.1	26.7	0.0	0.0	0.0	0.0	0.0	0.0
58°	2467.7	579.1	61.2	31.2	29.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	2022.3	472.2	78.0	39.0	39.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1396.4	412.0	89.1	50.1	40.1	0.0	0.0	0.0	0.0	0.0	0.0
65°	987.8	371.9	96.9	53.5	32.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	738.3	343.0	106.9	54.6	16.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	565.7	321.8	131.4	57.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	461.0	297.3	159.2	60.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	382.0	268.4	153.7	65.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	253.9	208.2	140.3	65.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	89.1	82.4	109.1	57.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.4	11.1	15.6	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
2.5°	45.7	45.7	44.5	45.7	45.7	47.9	53.5	61.2	70.2	73.5	76.8
5°	37.9	36.7	35.6	35.6	35.6	39.0	43.4	52.3	62.4	66.8	69.0
7.5°	31.2	30.1	29.0	27.8	27.8	30.1	35.6	45.7	55.7	60.1	63.5
10°	25.6	23.4	22.3	21.2	21.2	23.4	29.0	39.0	50.1	54.6	59.0
12.5°	21.2	17.8	15.6	14.5	13.4	16.7	22.3	31.2	43.4	49.0	53.5
15°	14.5	11.1	7.8	6.7	5.6	8.9	14.5	24.5	36.7	43.4	47.9
17.5°	7.8	3.3	1.1	0.0	0.0	2.2	6.7	17.8	30.1	35.6	41.2
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	22.3	27.8	33.4
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	13.4	18.9	24.5
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	10.0	14.5
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	6.7
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	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	8.9	12.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
0°	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
2.5°	79.1	78.0	75.7	73.5	73.5	73.5	76.8	80.2	83.5	83.5
5°	73.5	73.5	72.4	70.2	70.2	71.3	75.7	81.3	85.7	86.9
7.5°	67.9	70.2	67.9	66.8	67.9	69.0	73.5	80.2	86.9	89.1
10°	64.6	65.7	65.7	64.6	64.6	66.8	71.3	80.2	89.1	92.4
12.5°	60.1	62.4	61.2	61.2	61.2	63.5	69.0	79.1	91.3	95.8
15°	55.7	59.0	59.0	57.9	57.9	59.0	66.8	78.0	94.7	102.5
17.5°	51.2	54.6	55.7	53.5	53.5	55.7	63.5	78.0	96.9	110.2
20°	42.3	47.9	51.2	47.9	47.9	50.1	57.9	73.5	98.0	118.0
22.5°	33.4	39.0	43.4	42.3	42.3	43.4	53.5	70.2	99.1	131.4
25°	24.5	30.1	33.4	35.6	35.6	39.0	49.0	67.9	103.6	159.2
27.5°	14.5	21.2	25.6	27.8	29.0	33.4	45.7	65.7	111.4	199.3
30°	6.7	12.2	17.8	22.3	22.3	30.1	42.3	63.5	121.4	257.2
32.5°	0.0	5.6	8.9	15.6	16.7	24.5	39.0	61.2	135.9	312.9
35°	0.0	0.0	4.5	12.2	12.2	20.0	35.6	59.0	158.1	355.2
37.5°	0.0	0.0	0.0	8.9	10.0	17.8	34.5	57.9	162.6	358.6
40°	0.0	0.0	0.0	6.7	7.8	16.7	34.5	59.0	147.0	350.8
42.5°	0.0	0.0	0.0	4.5	5.6	16.7	34.5	61.2	132.5	359.7
45°	0.0	0.0	0.0	3.3	4.5	17.8	33.4	60.1	124.7	406.5
47.5°	0.0	0.0	0.0	4.5	6.7	17.8	32.3	59.0	125.8	561.3
50°	0.0	0.0	0.0	5.6	7.8	17.8	33.4	56.8	138.1	863.0
52.5°	0.0	0.0	0.0	4.5	6.7	20.0	36.7	55.7	150.3	1122.5
55°	0.0	0.0	0.0	1.1	3.3	25.6	40.1	55.7	169.3	1187.1
57.5°	0.0	0.0	0.0	0.0	0.0	29.0	45.7	59.0	200.4	1161.5
58°	0.0	0.0	0.0	0.0	0.0	29.0	46.8	59.0	202.7	1139.2
60°	0.0	0.0	0.0	0.0	0.0	29.0	51.2	65.7	218.3	1014.5
62.5°	0.0	0.0	0.0	0.0	0.0	24.5	61.2	82.4	227.2	797.3
65°	0.0	0.0	0.0	0.0	0.0	20.0	72.4	90.2	233.9	634.7
67.5°	0.0	0.0	0.0	0.0	0.0	18.9	74.6	91.3	237.2	505.6
70°	0.0	0.0	0.0	0.0	0.0	20.0	73.5	98.0	248.3	410.9
72.5°	0.0	0.0	0.0	0.0	0.0	22.3	66.8	108.0	248.3	364.1
75°	0.0	0.0	0.0	0.0	0.0	23.4	62.4	121.4	226.1	315.1
77.5°	0.0	0.0	0.0	0.0	0.0	22.3	61.2	141.4	201.6	259.5
80°	2.2	3.3	3.3	2.2	2.2	18.9	60.1	143.7	171.5	178.2
82.5°	6.7	8.9	7.8	5.6	5.6	16.7	53.5	120.3	89.1	76.8
85°	12.2	14.5	14.5	12.2	12.2	15.6	33.4	43.4	30.1	24.5
87.5°	16.7	18.9	18.9	16.7	16.7	15.6	14.5	13.4	12.2	12.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-3

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-727-U-5WQ

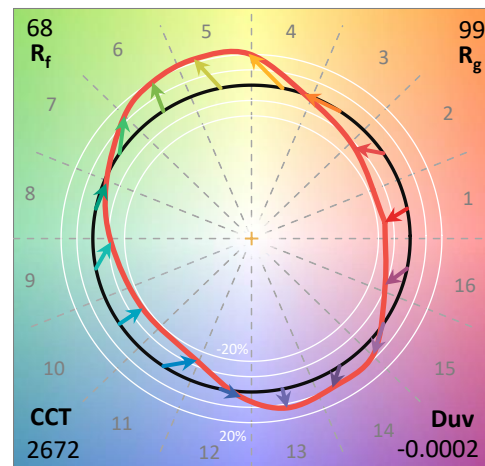
Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-3
 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-727-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K):	2672	CRI (Ra):	71.1		
CIE u':	0.2638	R1:	68.3	R9:	-27.8
CIE v':	0.5276	R2:	79.8	R10:	54.4
Duv:	-0.0002	R3:	91.2	R11:	65.8
CIE x:	0.4619	R4:	69.4	R12:	45.6
CIE y:	0.4106	R5:	66.5	R13:	69.8
CIE z:	0.1275	R6:	72.6	R14:	94.5
Peak Wavelength (nm):	601	R7:	77.0	R15:	60.1
Dominant Wavelength (nm):	584	R8:	44.1		
Purity:	61.88407				
Rf:	67.9				
Rg:	98.6				



Test Conditions

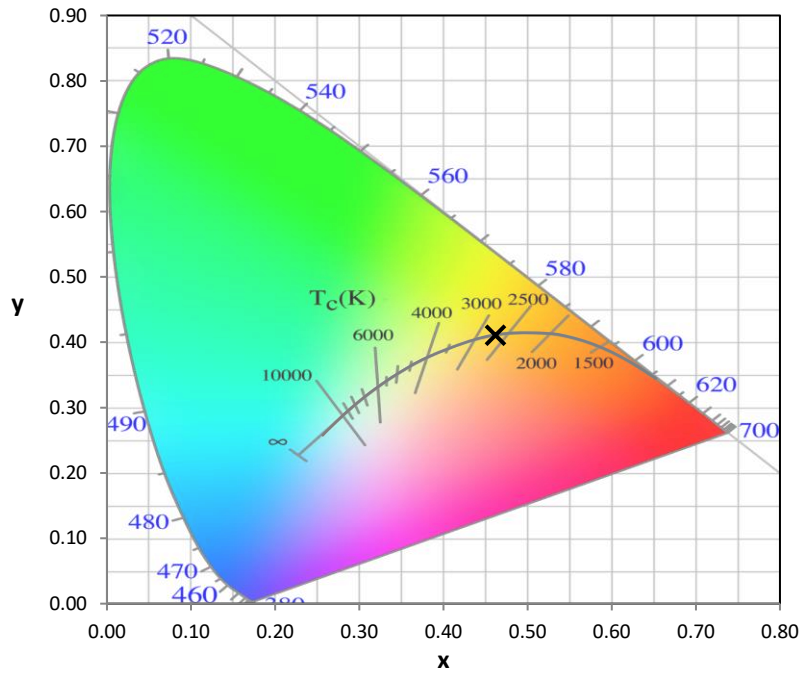
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-3

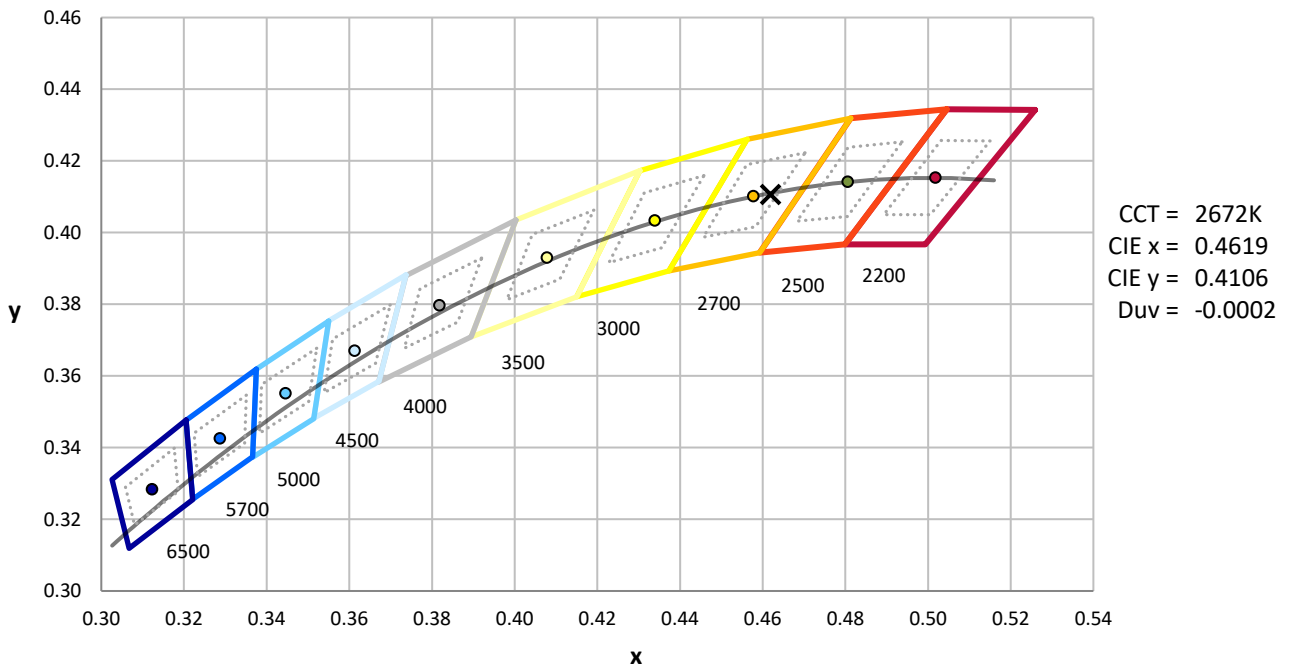
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



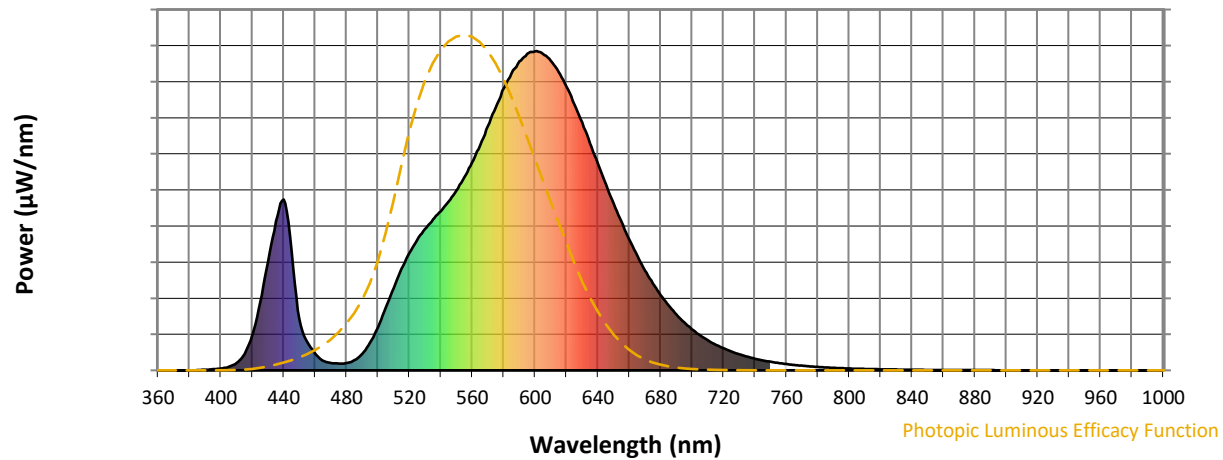
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-3

Photopic Flux vs. Wavelength

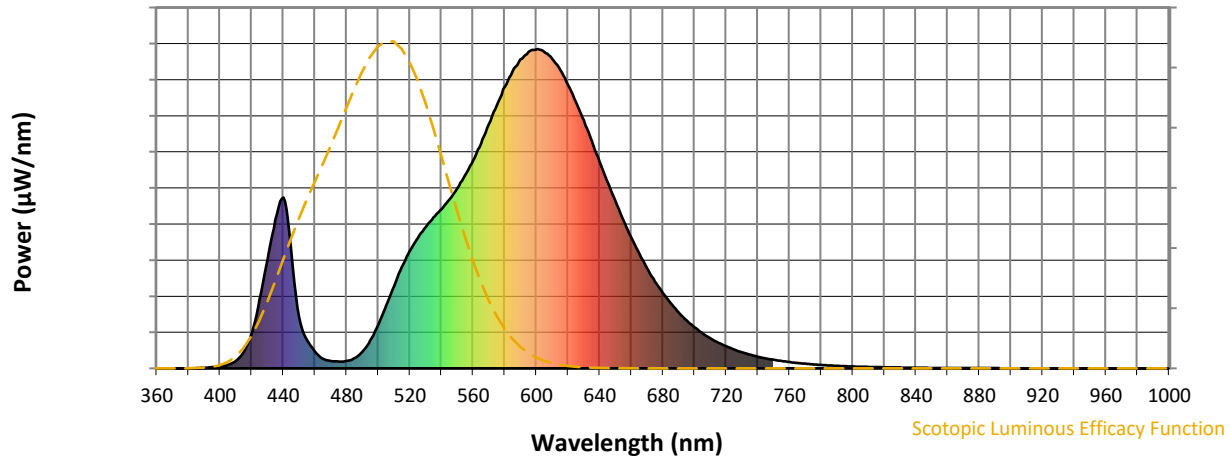


Photopic Lumens: NR

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Scotopic Flux vs. Wavelength



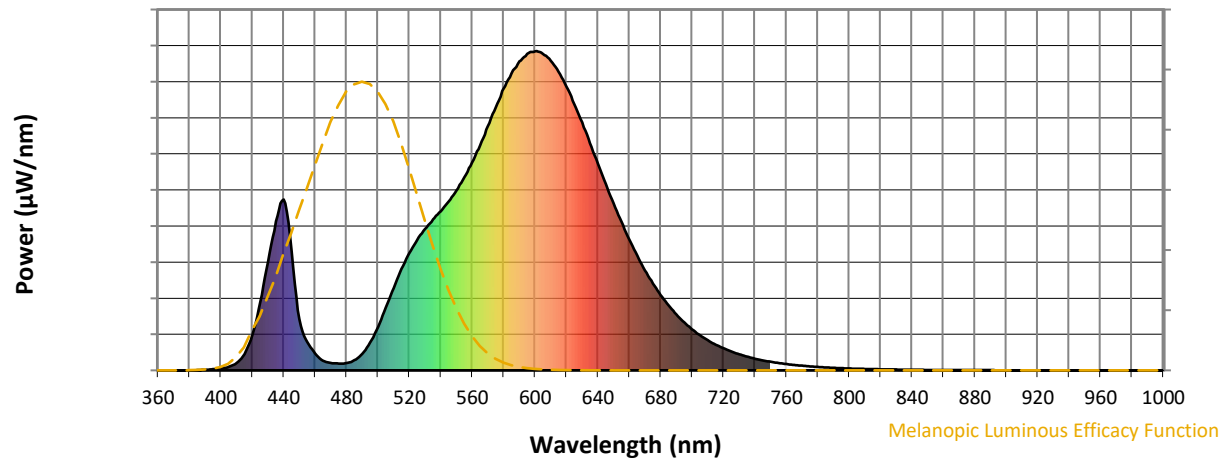
Scotopic Lumens: NR

S/P: 1.02

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 1.71

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

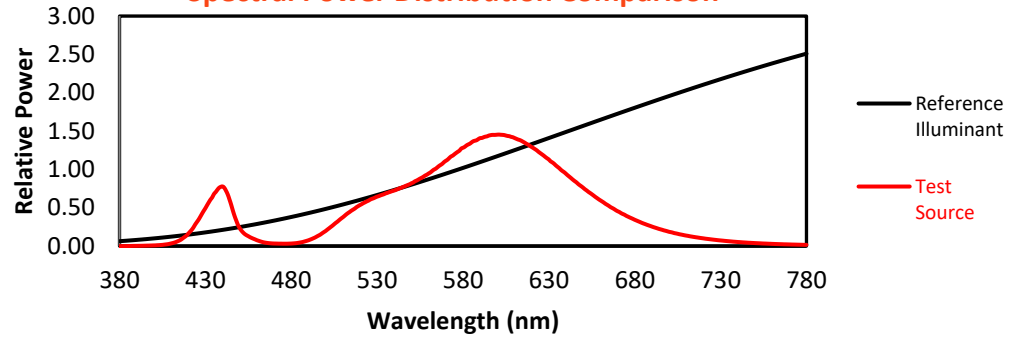
REPORT NUMBER: SP1-2407-184-3

TM-30-18

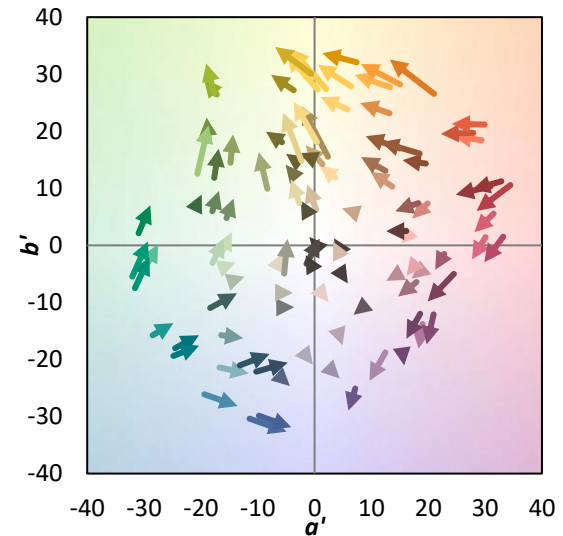
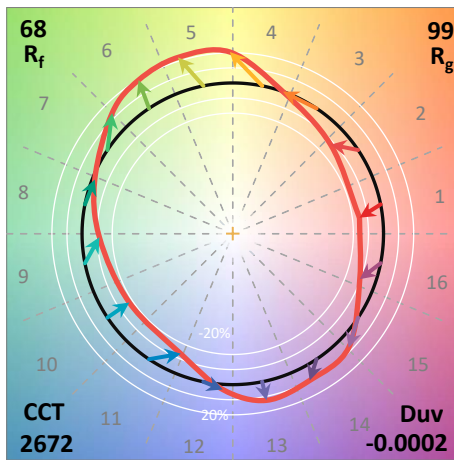
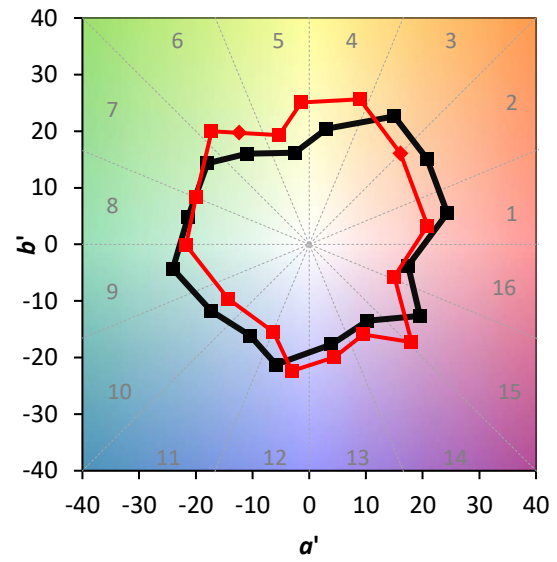
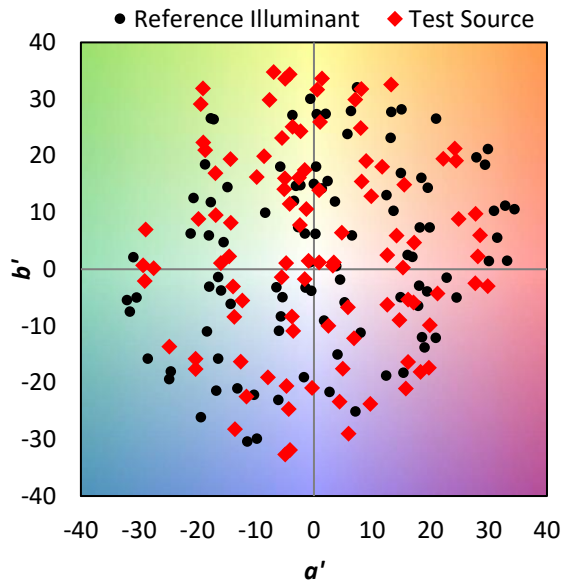
Summary

$R_f = 67.9$
 $R_g = 98.6$
 $CIE\ R_a = 71.1$
 $R_g = -27.8$

Spectral Power Distribution Comparison

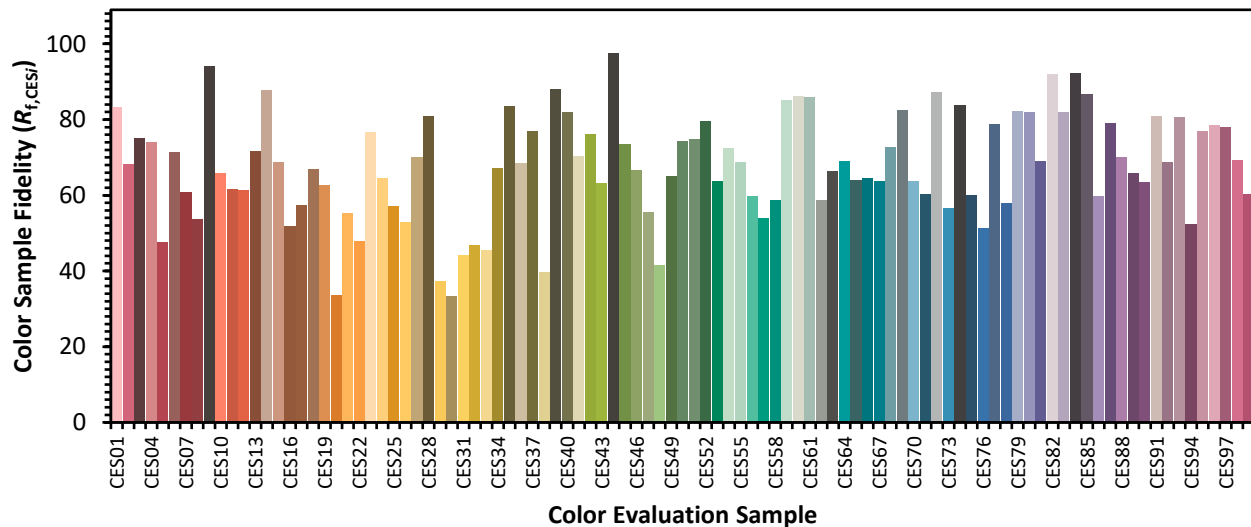


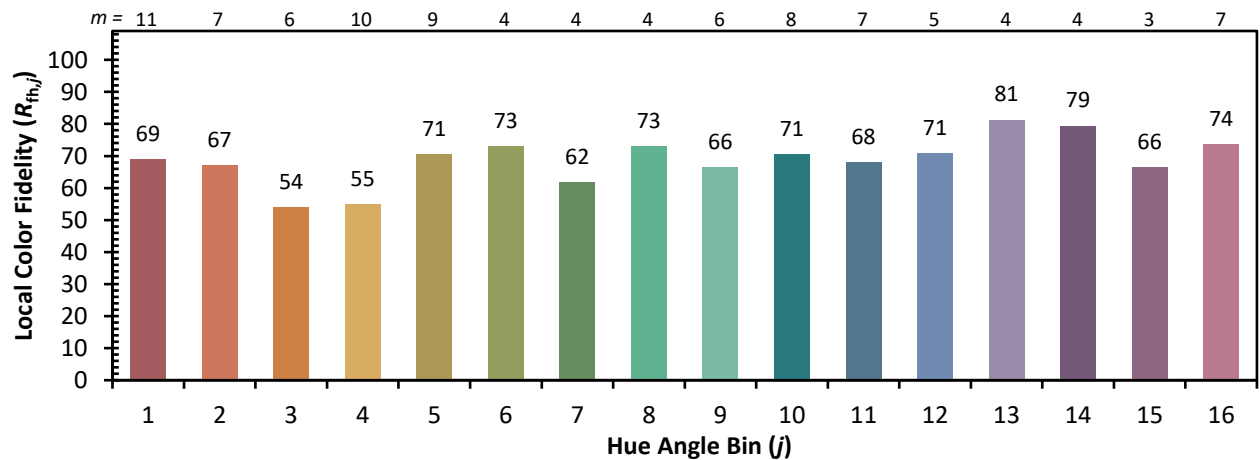
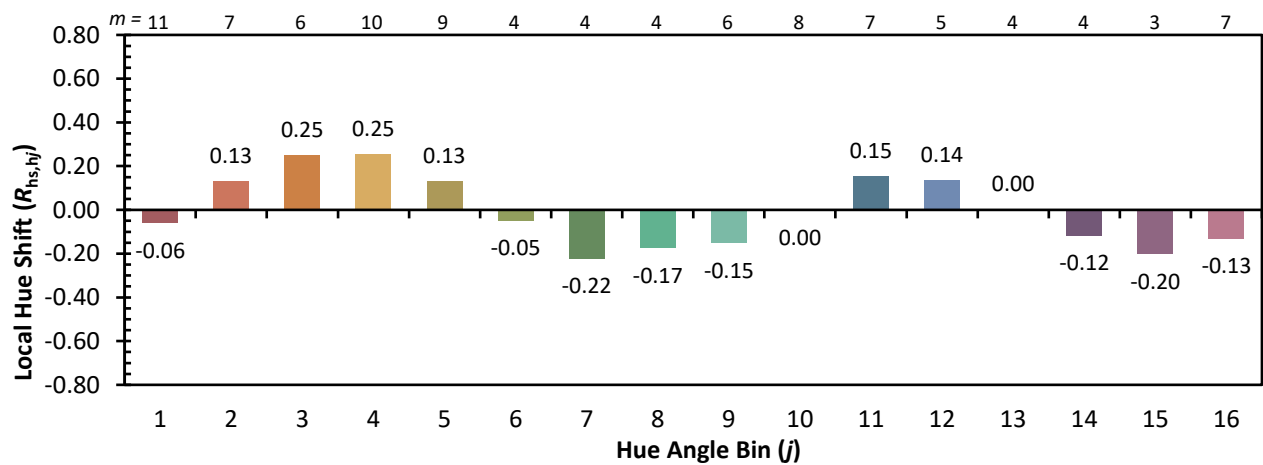
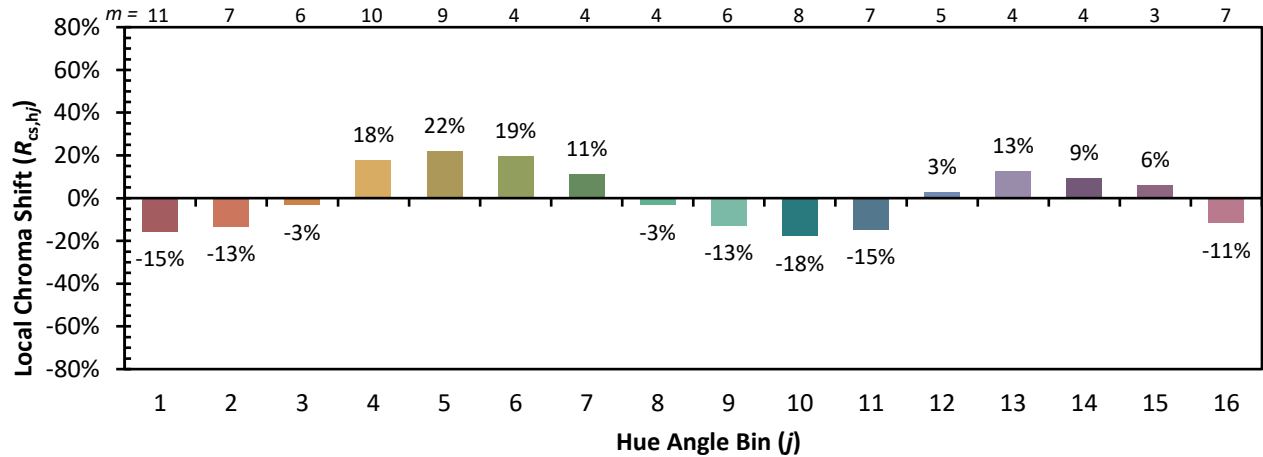
Color Vector Graphics

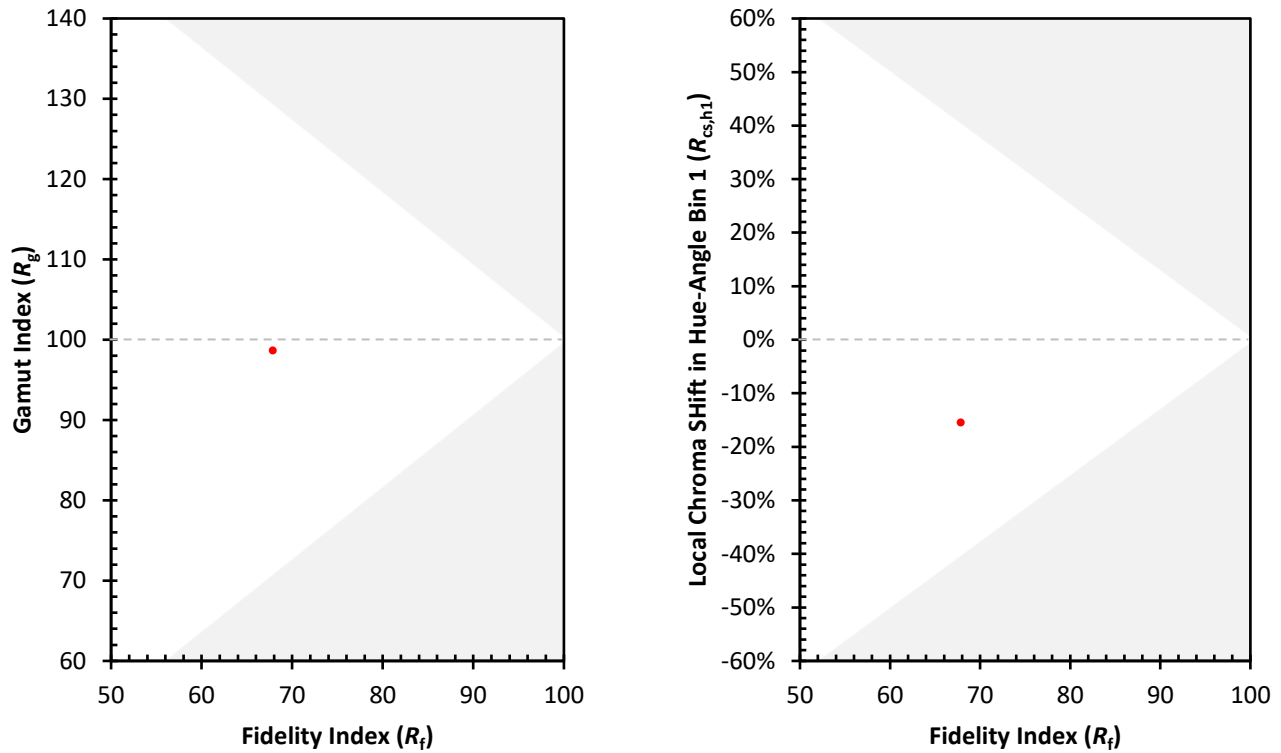


Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 53	CES51 = 75	CES76 = 51
CES02 = 63	CES27 = 70	CES52 = 80	CES77 = 79
CES03 = 31	CES28 = 81	CES53 = 64	CES78 = 58
CES04 = 71	CES29 = 37	CES54 = 73	CES79 = 82
CES05 = 50	CES30 = 33	CES55 = 69	CES80 = 82
CES06 = 52	CES31 = 44	CES56 = 60	CES81 = 69
CES07 = 42	CES32 = 47	CES57 = 54	CES82 = 92
CES08 = 41	CES33 = 45	CES58 = 59	CES83 = 82
CES09 = 29	CES34 = 67	CES59 = 85	CES84 = 92
CES10 = 77	CES35 = 84	CES60 = 86	CES85 = 87
CES11 = 60	CES36 = 68	CES61 = 86	CES86 = 60
CES12 = 66	CES37 = 77	CES62 = 59	CES87 = 79
CES13 = 44	CES38 = 40	CES63 = 66	CES88 = 70
CES14 = 74	CES39 = 88	CES64 = 69	CES89 = 66
CES15 = 72	CES40 = 82	CES65 = 64	CES90 = 64
CES16 = 48	CES41 = 70	CES66 = 65	CES91 = 81
CES17 = 51	CES42 = 76	CES67 = 64	CES92 = 69
CES18 = 57	CES43 = 63	CES68 = 73	CES93 = 81
CES19 = 73	CES44 = 97	CES69 = 83	CES94 = 53
CES20 = 67	CES45 = 74	CES70 = 64	CES95 = 77
CES21 = 88	CES46 = 67	CES71 = 60	CES96 = 79
CES22 = 80	CES47 = 55	CES72 = 87	CES97 = 78
CES23 = 92	CES48 = 42	CES73 = 57	CES98 = 69
CES24 = 92	CES49 = 65	CES74 = 84	CES99 = 60
CES25 = 73	CES50 = 74	CES75 = 60	



Color Rendition by Hue-Angle Bin


Measure Comparisons


(END OF REPORT)