

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: P1049557

Luminaire Tested: **GALN-SA7A-727-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049557
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-727-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 7xLight Square PACKAGE
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (98) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20638.1 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

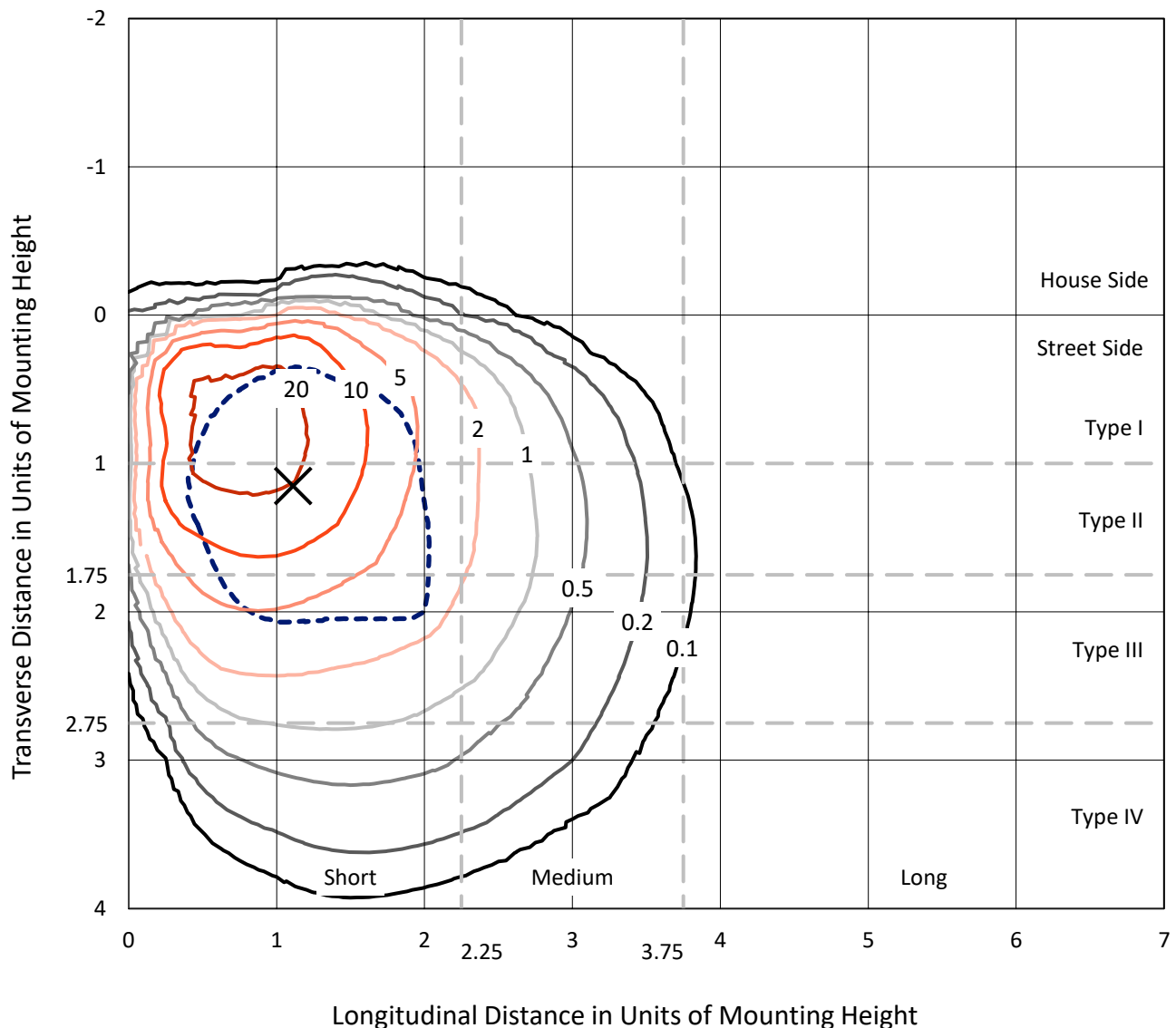
Input Watts (W): 193.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

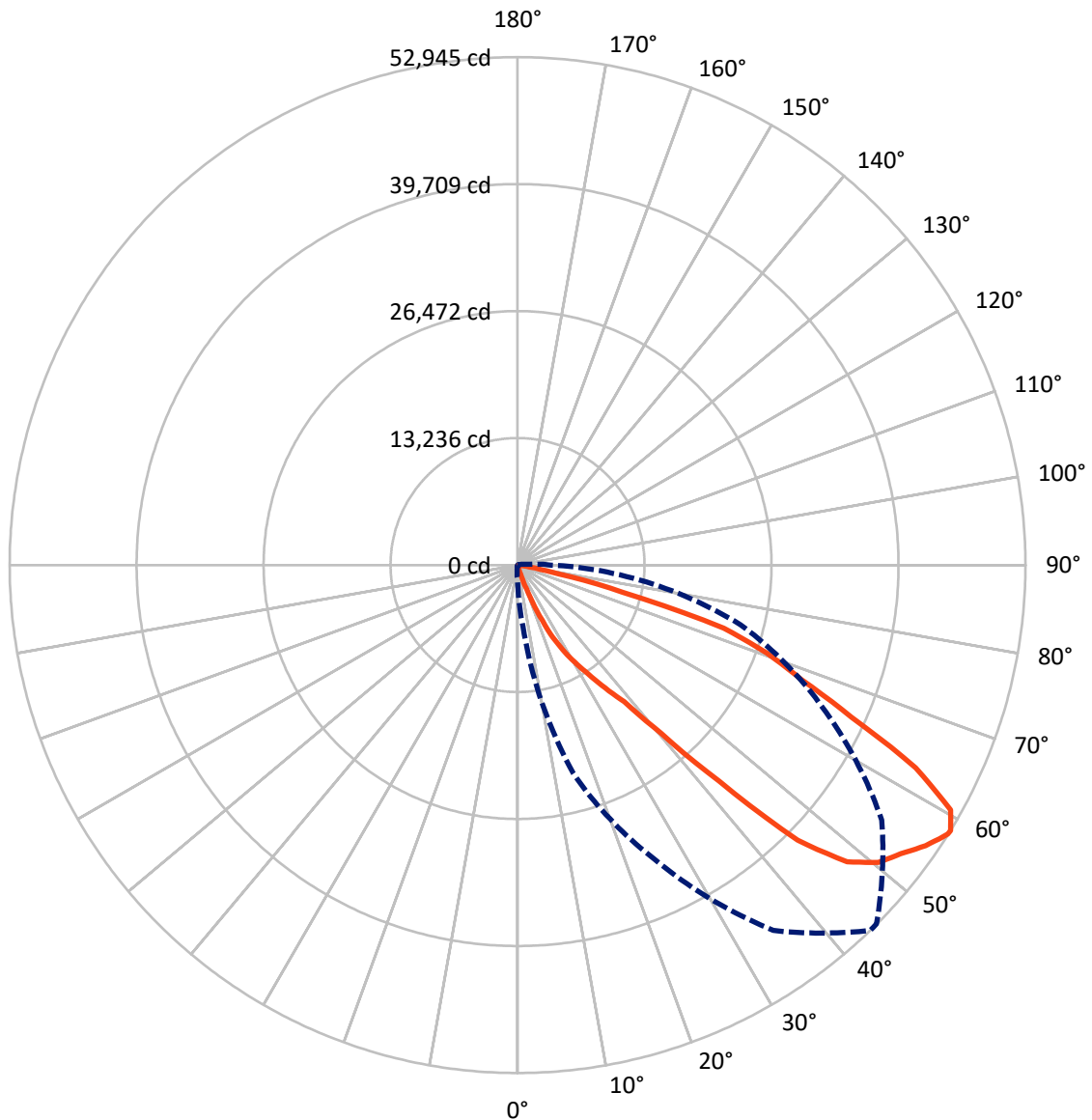
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 35.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	140.9	0.0	140.9
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	20497.2	0.0	20497.2
	% Fixture	99.3	0.0	99.3
Total	Lumens	20638.1	0.0	20638.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.1	0.0
10°-20°	45.3	0.2
20°-30°	488.9	2.4
30°-40°	1445.9	7.0
40°-50°	4309.6	20.9
50°-60°	6838.2	33.1
60°-70°	5703.9	27.6
70°-80°	1759.2	8.5
80°-90°	39.1	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°	20638.1	100.0
0°-180°	20638.1	100.0

Coefficient of Utilization



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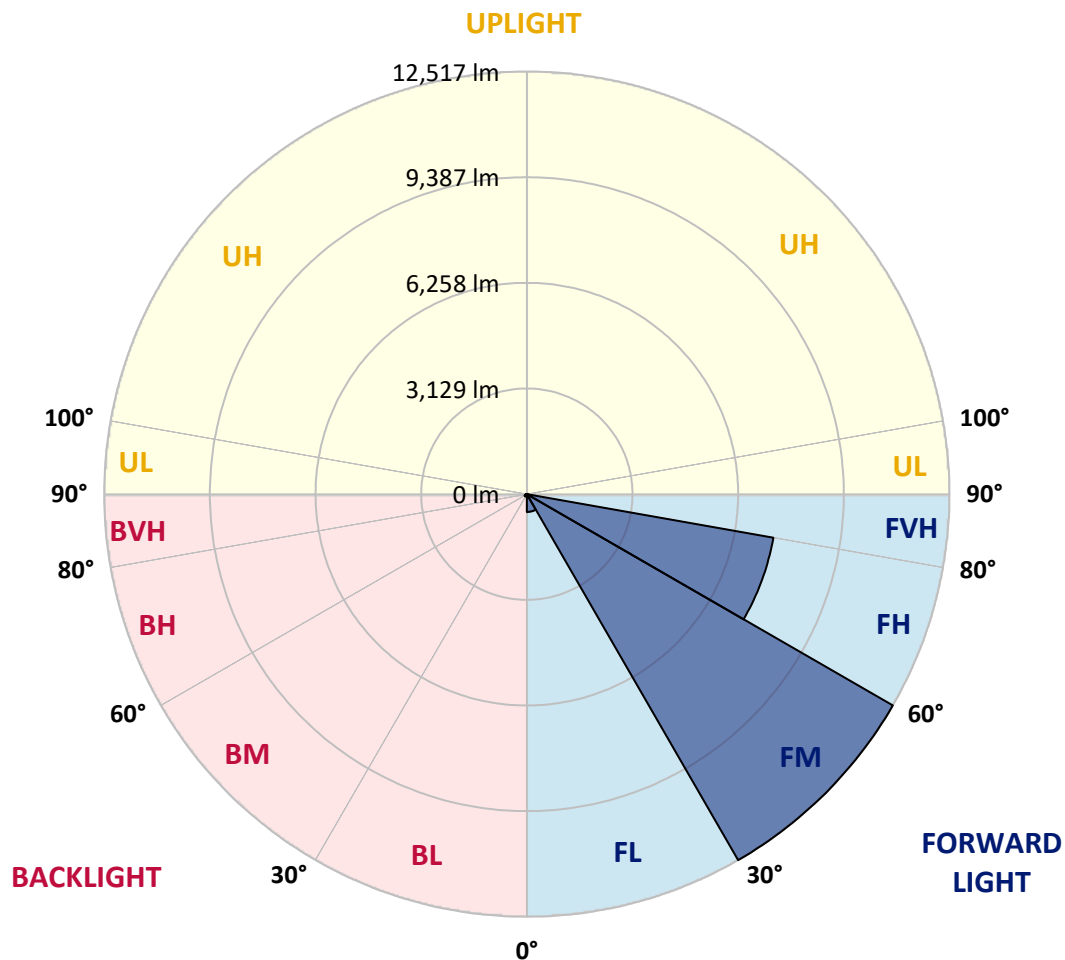
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	528.5	2.6			
FM	(30°-60°)	12516.6	60.6			
FH	(60°-80°)	7415.0	35.9			G3/7500
FVH	(80°-90°)	37.2	0.2			G1/100
BL	(0°-30°)	13.8	0.1	B0/110		
BM	(30°-60°)	77.1	0.4	B0/220		
BH	(60°-80°)	48.1	0.2	B0/110		G0/110
BVH	(80°-90°)	1.9	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°	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
2.5°	116.9	116.9	112.3	106.0	99.8	93.5	92.0	88.9	87.3	85.7	84.2
5°	121.6	121.6	120.0	115.4	109.1	104.5	104.5	99.8	96.7	93.5	90.4
7.5°	124.7	126.3	129.4	127.8	124.7	120.0	120.0	116.9	112.3	104.5	99.8
10°	129.4	134.1	140.3	143.4	145.0	145.0	143.4	141.9	134.1	123.2	110.7
12.5°	134.1	143.4	159.0	174.6	184.0	196.4	194.9	191.8	171.5	148.1	126.3
15°	143.4	157.5	190.2	235.4	305.6	349.2	366.4	350.8	283.7	199.6	146.5
17.5°	154.3	177.7	275.9	492.7	807.6	957.2	1047.7	974.4	645.4	378.8	184.0
20°	165.3	216.7	512.9	1276.8	2095.3	2584.9	2720.5	2508.5	1610.5	721.8	272.8
22.5°	184.0	304.0	1039.9	2639.4	4515.0	5249.3	5388.0	4709.8	3041.7	1425.0	410.0
25°	222.9	441.2	1792.9	4301.4	6738.1	7977.6	7919.9	7031.2	4934.3	2276.2	623.6
27.5°	279.1	642.3	2711.2	6111.4	8867.8	9960.7	10091.6	8992.5	6577.6	3347.2	885.5
30°	360.1	890.2	3696.5	7561.3	10574.9	11756.7	11778.5	10642.0	8047.7	4287.3	1206.7
32.5°	438.1	1124.1	4558.6	8962.9	12257.1	13552.7	13649.3	12250.9	9145.3	5266.4	1485.8
35°	497.3	1276.8	5431.7	10194.5	13953.4	15738.4	15732.2	14071.8	10445.5	6141.0	1872.4
37.5°	502.0	1429.6	6222.1	11454.2	16101.7	18100.4	18298.4	16468.1	12017.0	7223.0	2346.3
40°	491.1	1601.1	7223.0	13418.6	19972.8	23039.4	23214.0	20906.6	15169.4	9075.1	3086.9
42.5°	503.6	1898.9	8847.5	17046.5	26400.7	30805.0	31141.7	28715.8	20964.3	12854.2	4407.4
45°	569.0	2458.6	12250.9	23115.8	35563.1	40932.4	40820.2	37326.4	27707.2	18607.1	7020.3
47.5°	785.8	3829.0	17295.9	29023.0	41418.9	46200.4	46297.1	42026.9	31642.2	23030.1	10539.1
50°	1208.3	5858.9	21534.9	32145.7	43936.7	48733.8	48643.4	43709.1	33137.3	25208.0	12695.2
52.5°	1571.5	7327.5	23661.5	33241.7	44259.4	49985.8	49979.5	44151.8	33369.6	25395.1	12964.9
55°	1661.9	7438.2	23678.6	33301.0	44982.8	51624.3	51830.1	45241.6	33670.5	24578.2	11950.0
57.5°	1626.1	6585.4	22690.2	33644.0	46270.6	52891.8	52902.7	46297.1	34434.4	24077.7	10269.4
58°	1594.9	6451.3	22490.6	33838.8	46492.0	52944.8	52918.3	46345.4	35056.4	24059.0	10005.9
60°	1420.3	5601.6	21712.7	34336.2	46163.0	51856.6	51608.7	45289.9	34964.5	23867.3	8679.1
62.5°	1116.3	4370.0	20947.2	33760.9	42636.5	46588.6	46691.5	40096.8	31874.5	22749.4	7115.4
65°	888.6	3256.8	19350.7	29613.9	35109.4	38258.7	38642.2	32605.6	26604.9	19263.4	5246.1
67.5°	707.8	2354.1	16232.7	23577.3	27782.0	31930.6	32209.6	27375.1	20612.0	14759.4	3727.7
70°	575.3	1591.8	11204.8	17242.9	22914.7	27579.3	27596.5	22741.6	15384.5	9670.7	2338.6
72.5°	509.8	1102.2	6504.3	12575.2	18580.6	22473.5	22019.8	18454.3	11823.7	5727.9	1393.8
75°	441.2	731.2	3189.8	7687.6	11265.6	11342.0	11515.0	8560.7	5910.3	2723.6	835.6
77.5°	363.3	519.2	1256.6	2100.0	3378.4	4324.8	4485.3	3398.7	1965.9	670.4	445.9
80°	249.4	246.3	338.3	643.9	966.6	1211.4	1130.3	874.6	514.5	257.2	159.0
82.5°	107.6	116.9	152.8	184.0	149.7	145.0	138.8	88.9	68.6	53.0	32.7
85°	34.3	31.2	32.7	32.7	26.5	20.3	20.3	9.4	0.0	0.0	0.0
87.5°	17.1	14.0	14.0	12.5	7.8	3.1	1.6	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°	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
2.5°	82.6	82.6	79.5	76.4	74.8	71.7	70.2	68.6	67.0	65.5	63.9
5°	87.3	85.7	81.1	76.4	71.7	67.0	63.9	60.8	57.7	56.1	54.6
7.5°	95.1	92.0	82.6	74.8	68.6	62.4	59.2	54.6	51.4	46.8	45.2
10°	104.5	98.2	85.7	76.4	67.0	59.2	54.6	49.9	45.2	39.0	37.4
12.5°	116.9	106.0	90.4	74.8	63.9	54.6	49.9	43.7	39.0	34.3	31.2
15°	127.8	113.8	92.0	74.8	60.8	49.9	43.7	37.4	32.7	26.5	23.4
17.5°	143.4	120.0	90.4	70.2	56.1	43.7	37.4	32.7	24.9	15.6	12.5
20°	169.9	124.7	87.3	65.5	48.3	35.9	28.1	21.8	10.9	3.1	0.0
22.5°	212.0	137.2	84.2	59.2	42.1	28.1	18.7	7.8	0.0	0.0	0.0
25°	293.1	159.0	84.2	56.1	37.4	20.3	6.2	0.0	0.0	0.0	0.0
27.5°	389.8	188.6	84.2	48.3	29.6	10.9	0.0	0.0	0.0	0.0	0.0
30°	488.0	221.4	84.2	42.1	23.4	1.6	0.0	0.0	0.0	0.0	0.0
32.5°	581.5	249.4	85.7	35.9	15.6	0.0	0.0	0.0	0.0	0.0	0.0
35°	676.6	254.1	84.2	31.2	9.4	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	798.2	244.8	79.5	28.1	4.7	0.0	0.0	0.0	0.0	0.0	0.0
40°	982.2	249.4	74.8	26.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1322.1	269.7	68.6	26.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2285.5	361.7	62.4	28.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3780.7	650.1	60.8	28.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4825.2	818.5	63.9	29.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4817.4	912.0	67.0	31.2	6.2	0.0	0.0	0.0	0.0	0.0	0.0
55°	4282.7	929.2	71.7	34.3	20.3	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3579.5	848.1	82.6	42.1	37.4	0.0	0.0	0.0	0.0	0.0	0.0
58°	3454.8	810.7	85.7	43.7	40.5	0.0	0.0	0.0	0.0	0.0	0.0
60°	2831.2	661.0	109.1	54.6	54.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1955.0	576.8	124.7	70.2	56.1	0.0	0.0	0.0	0.0	0.0	0.0
65°	1382.9	520.7	135.6	74.8	45.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1033.6	480.2	149.7	76.4	23.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	792.0	450.6	184.0	81.1	6.2	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	645.4	416.3	222.9	84.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	534.7	375.7	215.1	92.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	355.5	291.5	196.4	92.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	124.7	115.4	152.8	81.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	18.7	15.6	21.8	28.1	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°	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
2.5°	63.9	63.9	62.4	63.9	63.9	67.0	74.8	85.7	98.2	102.9	107.6
5°	53.0	51.4	49.9	49.9	49.9	54.6	60.8	73.3	87.3	93.5	96.7
7.5°	43.7	42.1	40.5	39.0	39.0	42.1	49.9	63.9	78.0	84.2	88.9
10°	35.9	32.7	31.2	29.6	29.6	32.7	40.5	54.6	70.2	76.4	82.6
12.5°	29.6	24.9	21.8	20.3	18.7	23.4	31.2	43.7	60.8	68.6	74.8
15°	20.3	15.6	10.9	9.4	7.8	12.5	20.3	34.3	51.4	60.8	67.0
17.5°	10.9	4.7	1.6	0.0	0.0	3.1	9.4	24.9	42.1	49.9	57.7
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	31.2	39.0	46.8
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	18.7	26.5	34.3
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	14.0	20.3
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	9.4
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	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	9.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	12.5	17.1
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°	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
2.5°	110.7	109.1	106.0	102.9	102.9	102.9	107.6	112.3	116.9	116.9
5°	102.9	102.9	101.3	98.2	98.2	99.8	106.0	113.8	120.0	121.6
7.5°	95.1	98.2	95.1	93.5	95.1	96.7	102.9	112.3	121.6	124.7
10°	90.4	92.0	92.0	90.4	90.4	93.5	99.8	112.3	124.7	129.4
12.5°	84.2	87.3	85.7	85.7	85.7	88.9	96.7	110.7	127.8	134.1
15°	78.0	82.6	82.6	81.1	81.1	82.6	93.5	109.1	132.5	143.4
17.5°	71.7	76.4	78.0	74.8	74.8	78.0	88.9	109.1	135.6	154.3
20°	59.2	67.0	71.7	67.0	67.0	70.2	81.1	102.9	137.2	165.3
22.5°	46.8	54.6	60.8	59.2	59.2	60.8	74.8	98.2	138.8	184.0
25°	34.3	42.1	46.8	49.9	49.9	54.6	68.6	95.1	145.0	222.9
27.5°	20.3	29.6	35.9	39.0	40.5	46.8	63.9	92.0	155.9	279.1
30°	9.4	17.1	24.9	31.2	31.2	42.1	59.2	88.9	169.9	360.1
32.5°	0.0	7.8	12.5	21.8	23.4	34.3	54.6	85.7	190.2	438.1
35°	0.0	0.0	6.2	17.1	17.1	28.1	49.9	82.6	221.4	497.3
37.5°	0.0	0.0	0.0	12.5	14.0	24.9	48.3	81.1	227.6	502.0
40°	0.0	0.0	0.0	9.4	10.9	23.4	48.3	82.6	205.8	491.1
42.5°	0.0	0.0	0.0	6.2	7.8	23.4	48.3	85.7	185.5	503.6
45°	0.0	0.0	0.0	4.7	6.2	24.9	46.8	84.2	174.6	569.0
47.5°	0.0	0.0	0.0	6.2	9.4	24.9	45.2	82.6	176.2	785.8
50°	0.0	0.0	0.0	7.8	10.9	24.9	46.8	79.5	193.3	1208.3
52.5°	0.0	0.0	0.0	6.2	9.4	28.1	51.4	78.0	210.5	1571.5
55°	0.0	0.0	0.0	1.6	4.7	35.9	56.1	78.0	237.0	1661.9
57.5°	0.0	0.0	0.0	0.0	0.0	40.5	63.9	82.6	280.6	1626.1
58°	0.0	0.0	0.0	0.0	0.0	40.5	65.5	82.6	283.7	1594.9
60°	0.0	0.0	0.0	0.0	0.0	40.5	71.7	92.0	305.6	1420.3
62.5°	0.0	0.0	0.0	0.0	0.0	34.3	85.7	115.4	318.0	1116.3
65°	0.0	0.0	0.0	0.0	0.0	28.1	101.3	126.3	327.4	888.6
67.5°	0.0	0.0	0.0	0.0	0.0	26.5	104.5	127.8	332.1	707.8
70°	0.0	0.0	0.0	0.0	0.0	28.1	102.9	137.2	347.7	575.3
72.5°	0.0	0.0	0.0	0.0	0.0	31.2	93.5	151.2	347.7	509.8
75°	0.0	0.0	0.0	0.0	0.0	32.7	87.3	169.9	316.5	441.2
77.5°	0.0	0.0	0.0	0.0	0.0	31.2	85.7	198.0	282.2	363.3
80°	3.1	4.7	4.7	3.1	3.1	26.5	84.2	201.1	240.1	249.4
82.5°	9.4	12.5	10.9	7.8	7.8	23.4	74.8	168.4	124.7	107.6
85°	17.1	20.3	20.3	17.1	17.1	21.8	46.8	60.8	42.1	34.3
87.5°	23.4	26.5	26.5	23.4	23.4	21.8	20.3	18.7	17.1	17.1
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

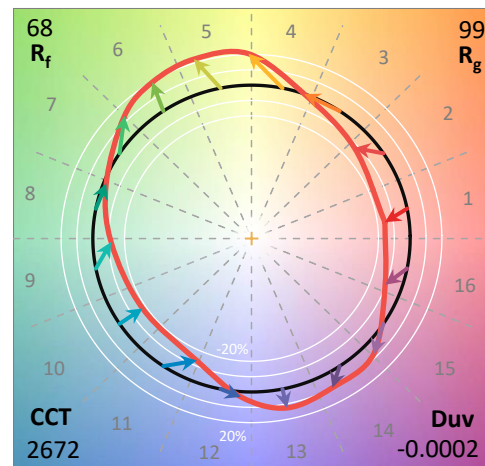
Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

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

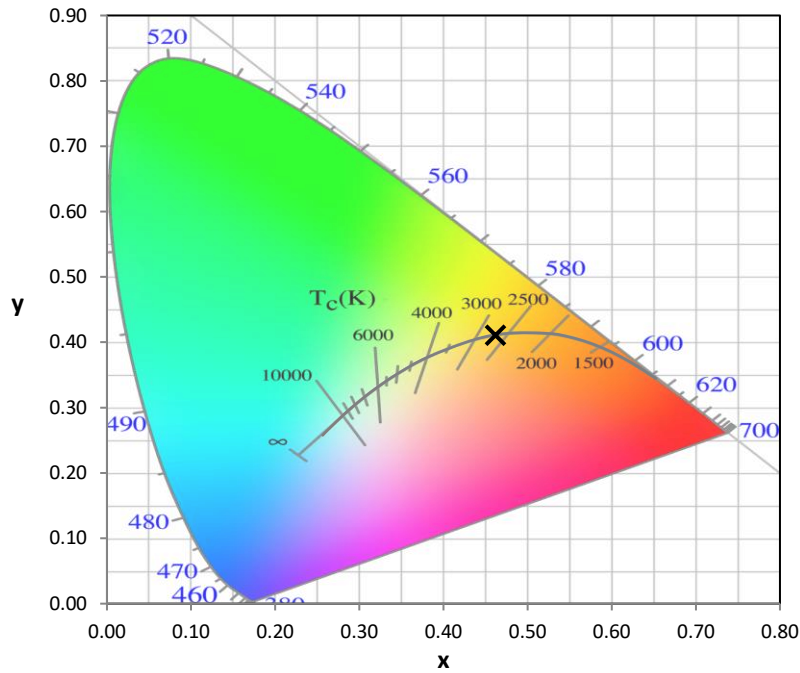
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-3

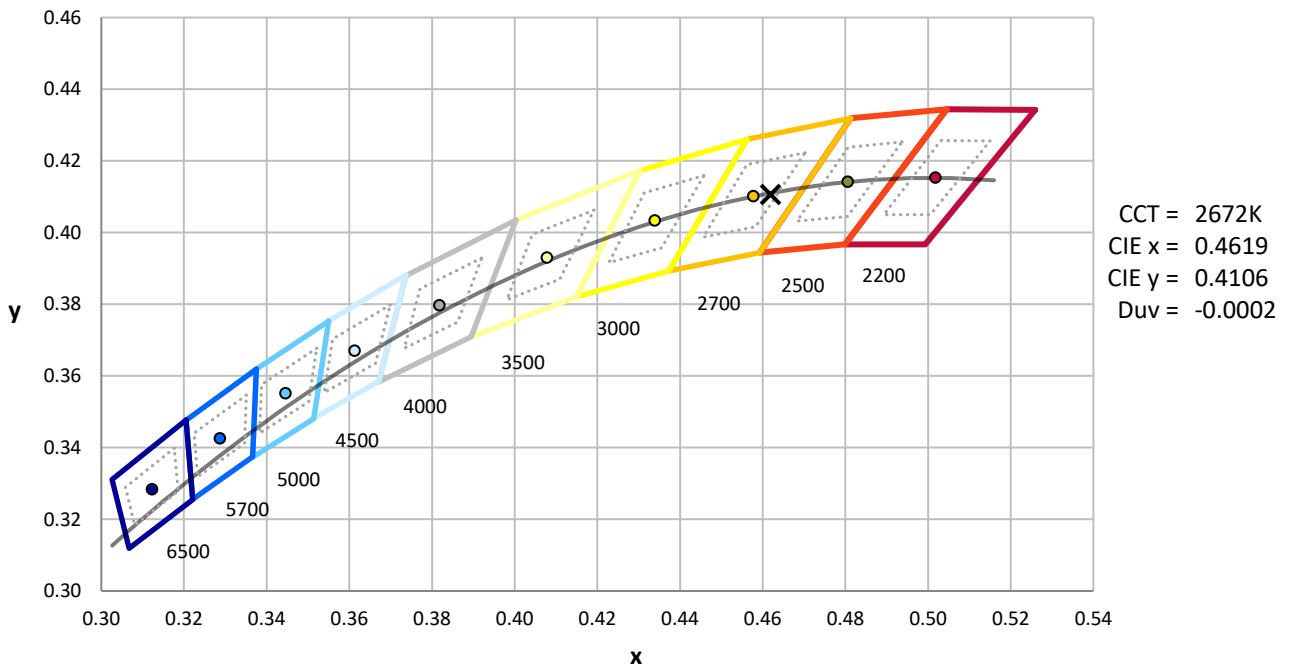
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



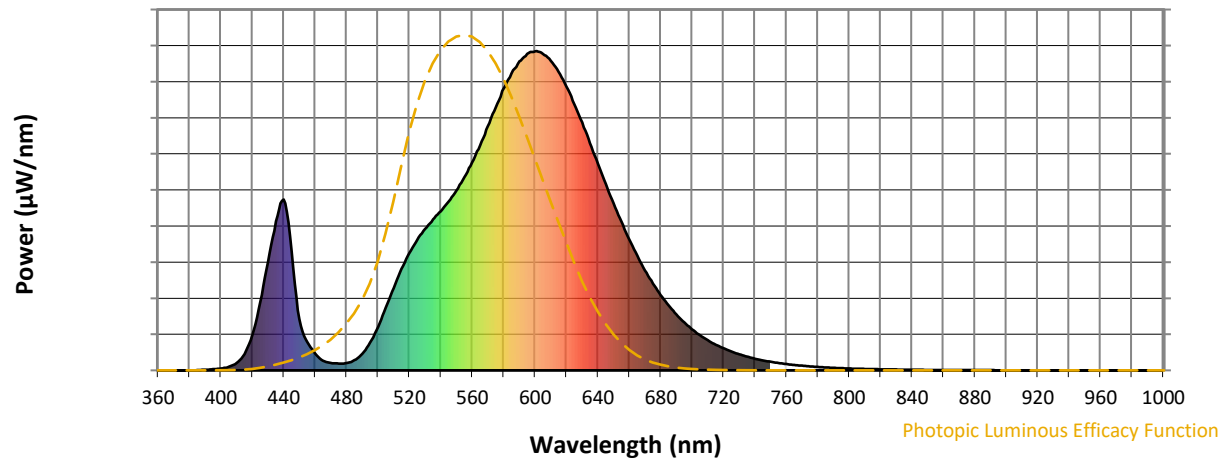
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-3

Photopic Flux vs. Wavelength

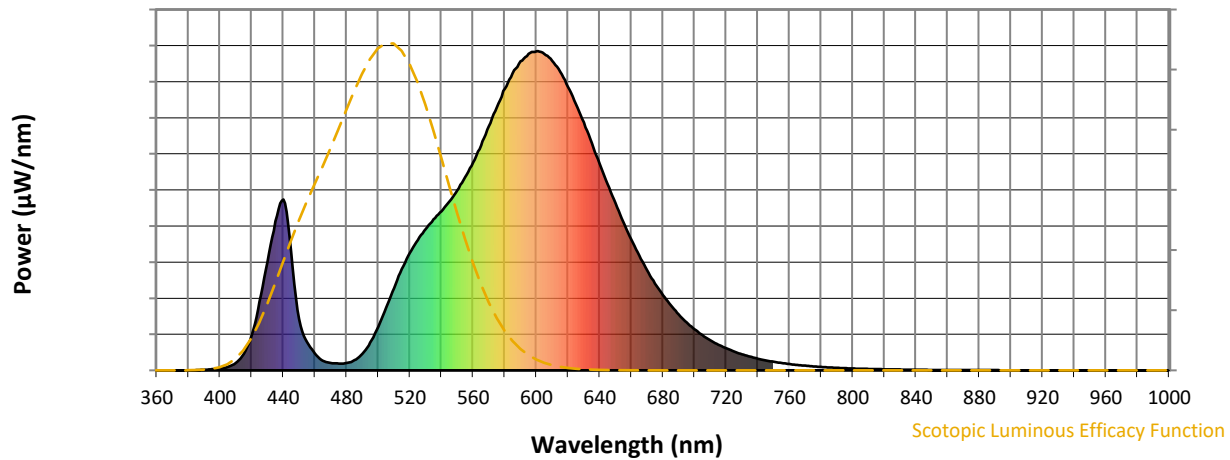


Photopic Lumens: NR

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



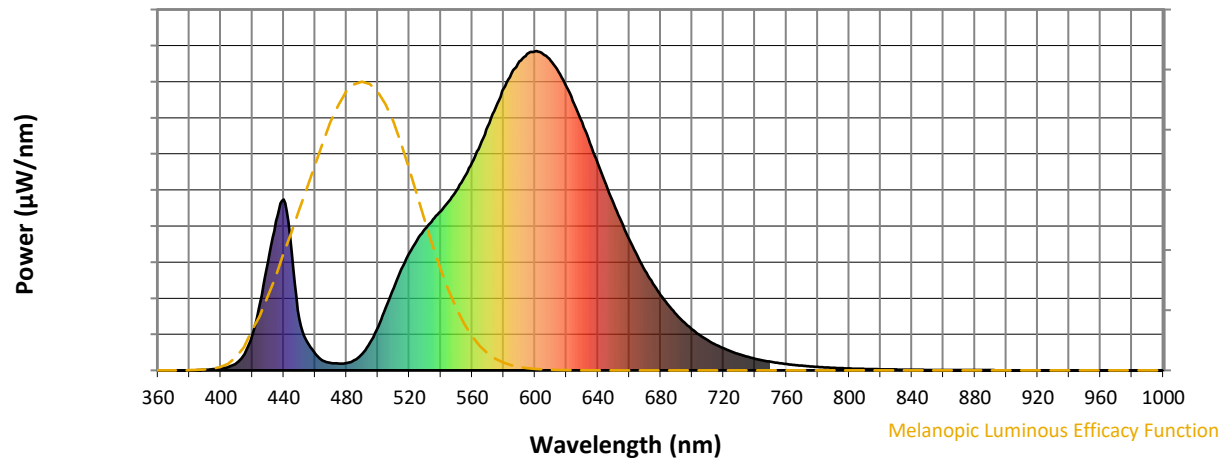
Scotopic Lumens: NR

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 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			

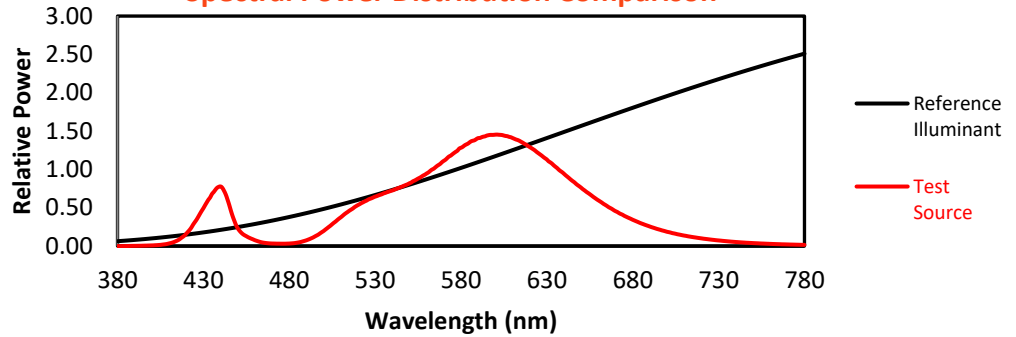
REPORT NUMBER: SP1-2407-184-3

TM-30-18

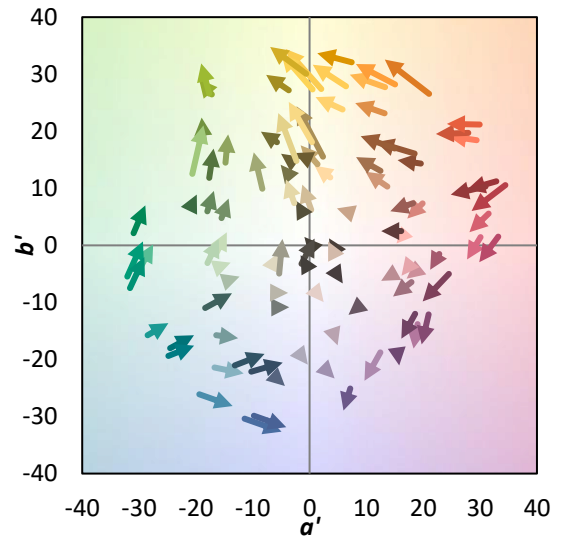
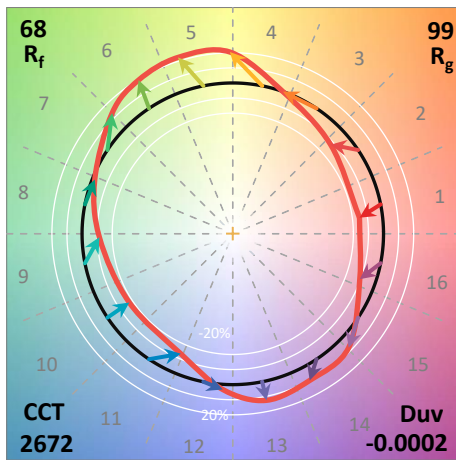
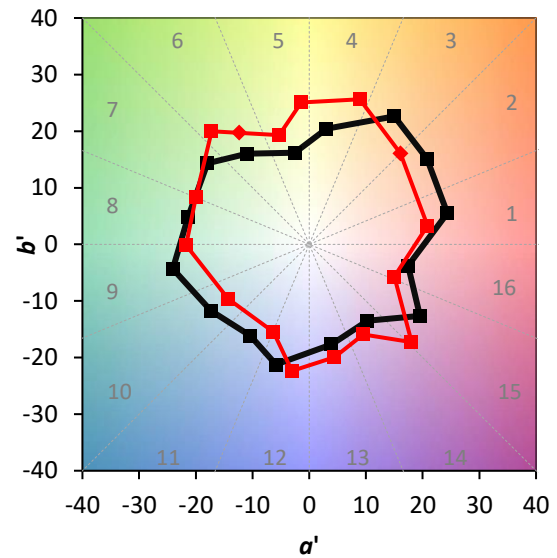
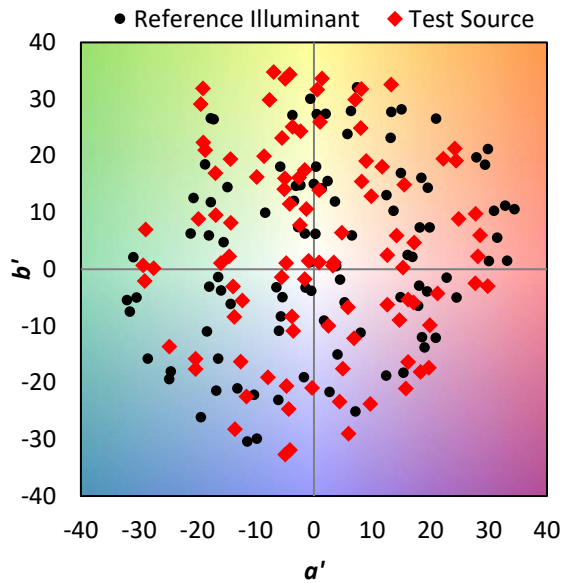
Summary

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

Spectral Power Distribution Comparison

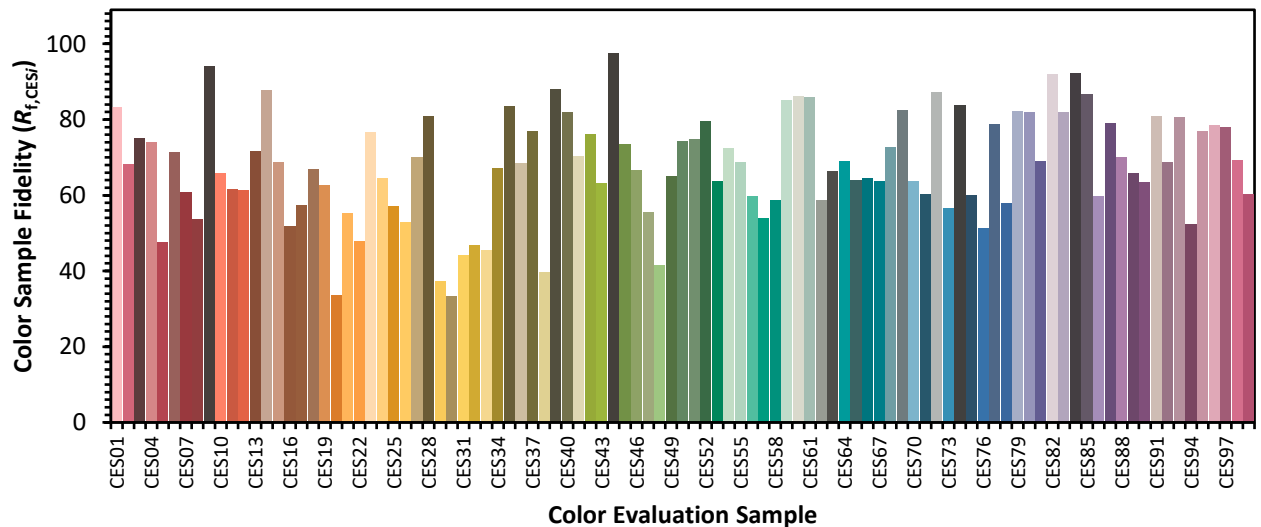


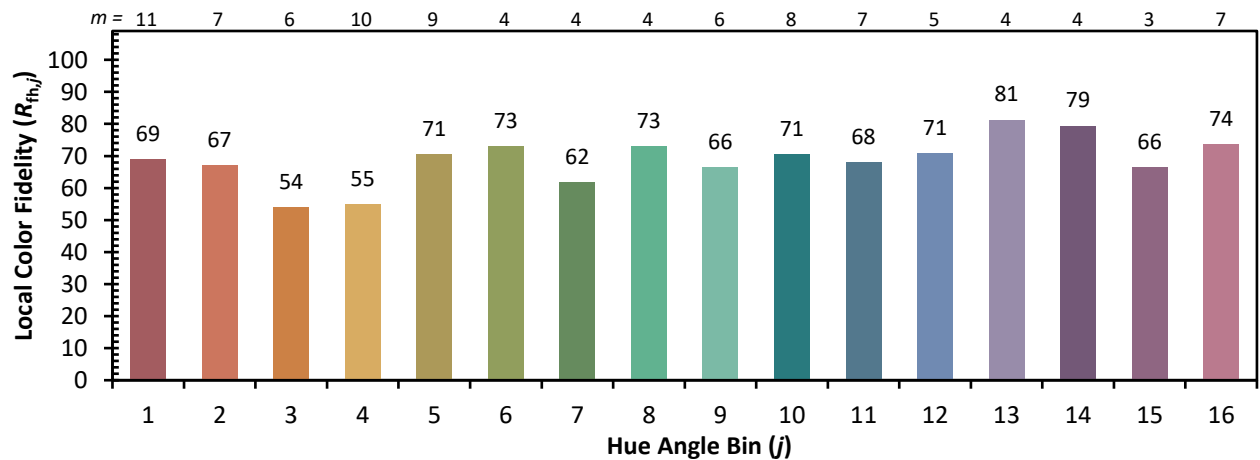
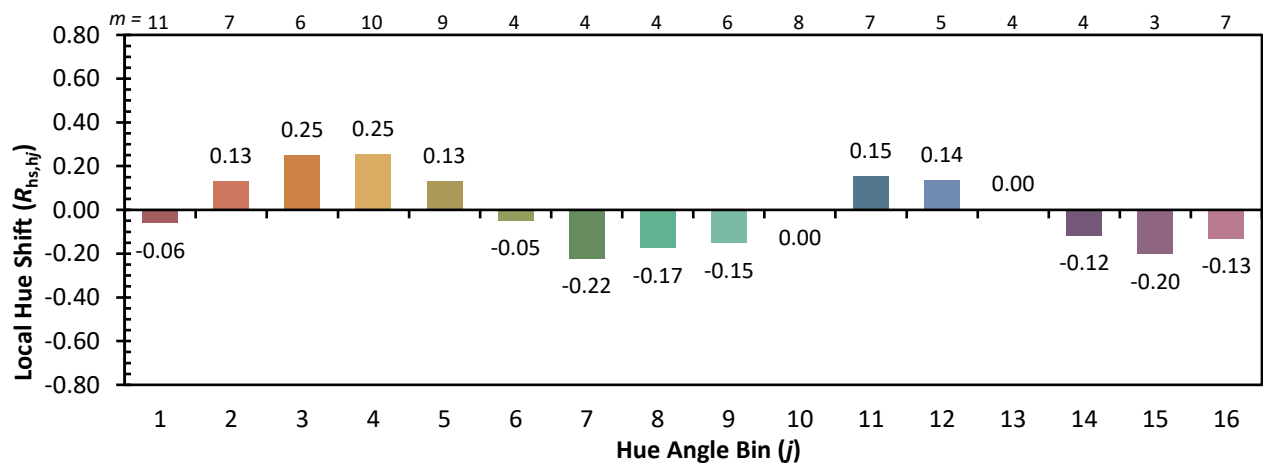
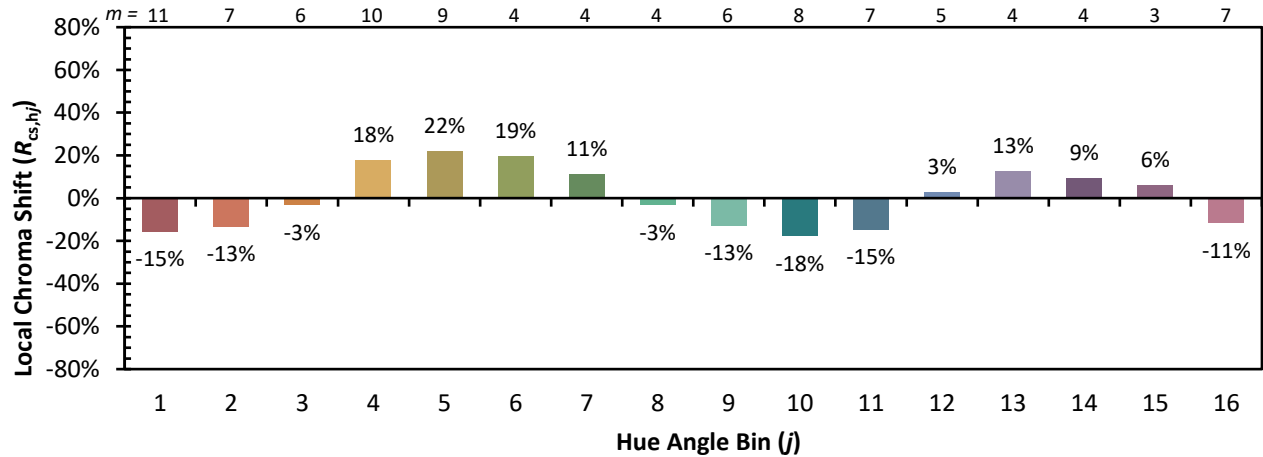
Color Vector Graphics



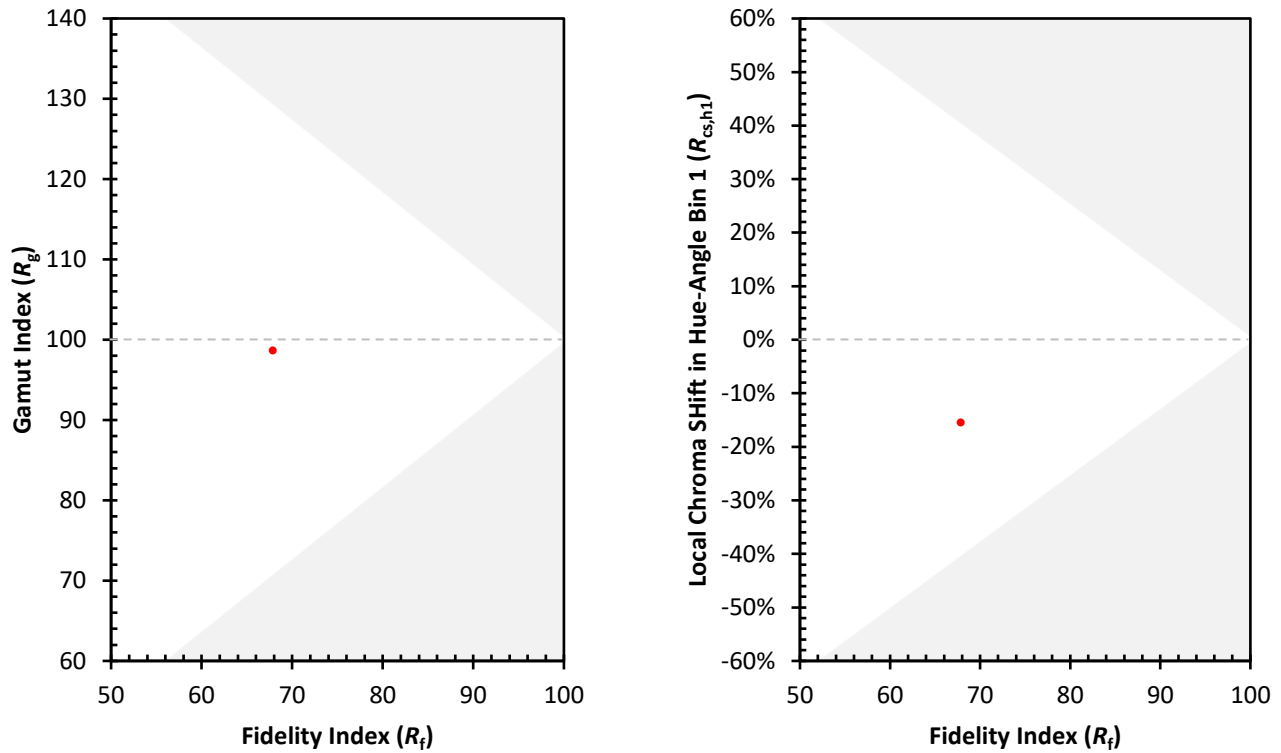
Individual Sample Fidelity Index ($R_{f,i}$)

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)