

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: P991233

Luminaire Tested: **GPC-SA1C-727-U-RBC**

Issue Date: 07/03/2025

Test Information

Test Method: LM-79-08
Report Number: P991233
Test Lab: INNOVATION CENTER(G1)
Issue Date: 07/03/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-SA1C-727-U-RBC
Description: GALLEON PEDESTRAIAN COMPANION 1050mA 1xLight Square PACKAGE 70CRI
2700K FIXTURE w/ RIGHT CORNER BACKLIGHT CONTROL
Light Source: (14) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4176.8 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.67' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 49.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

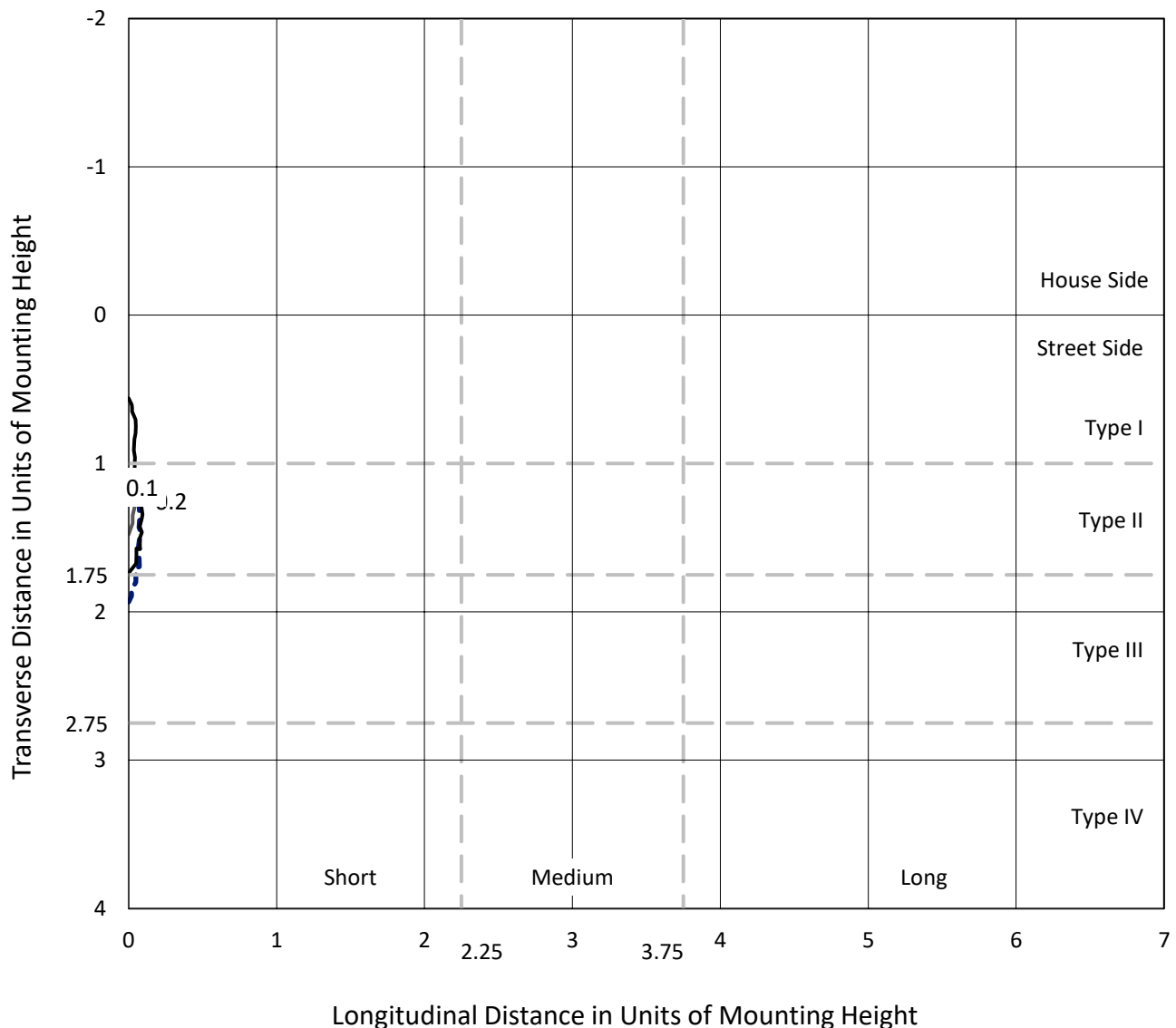


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Iso-Footcandle Lines of Horizontal Illumination

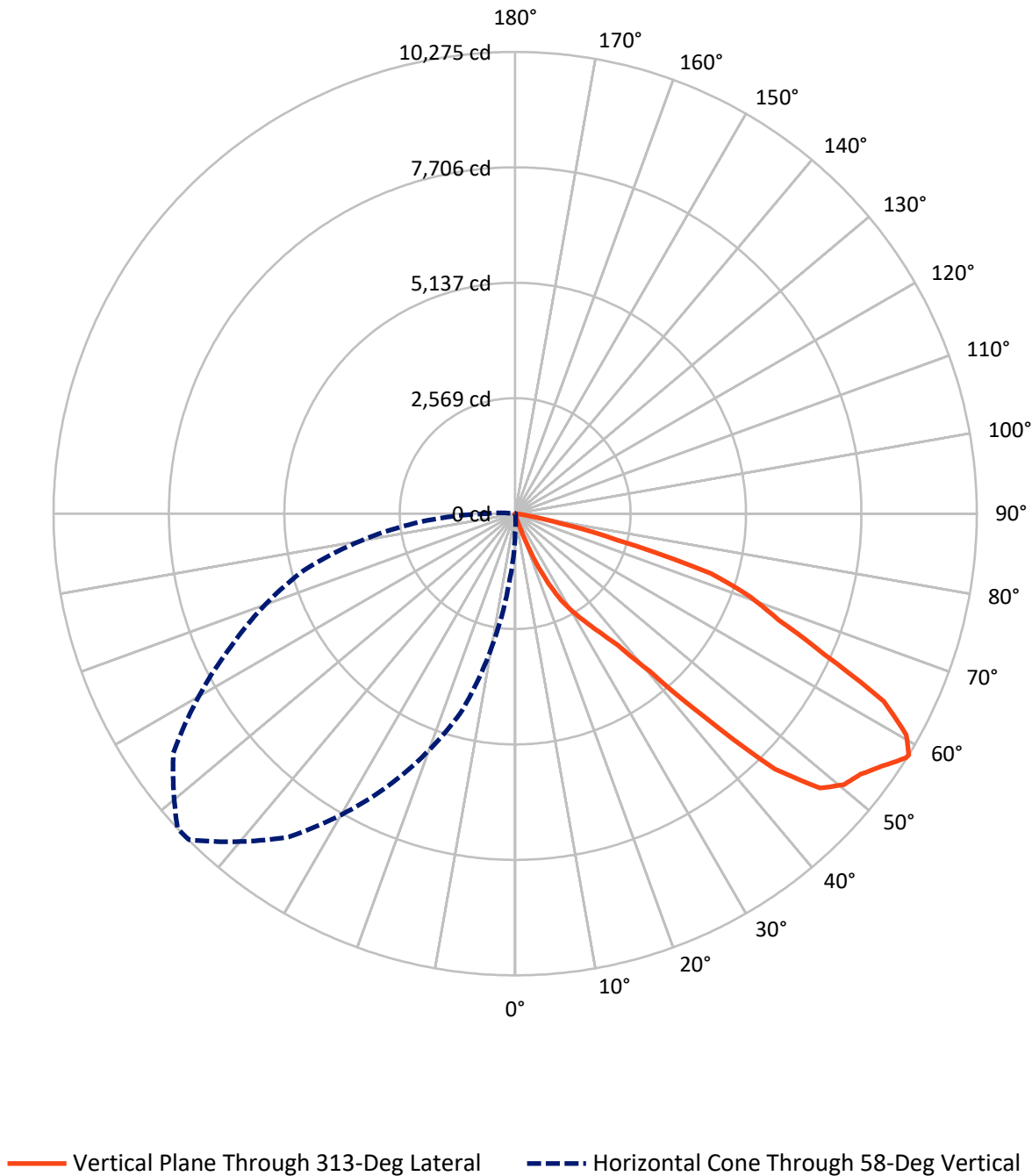
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 0.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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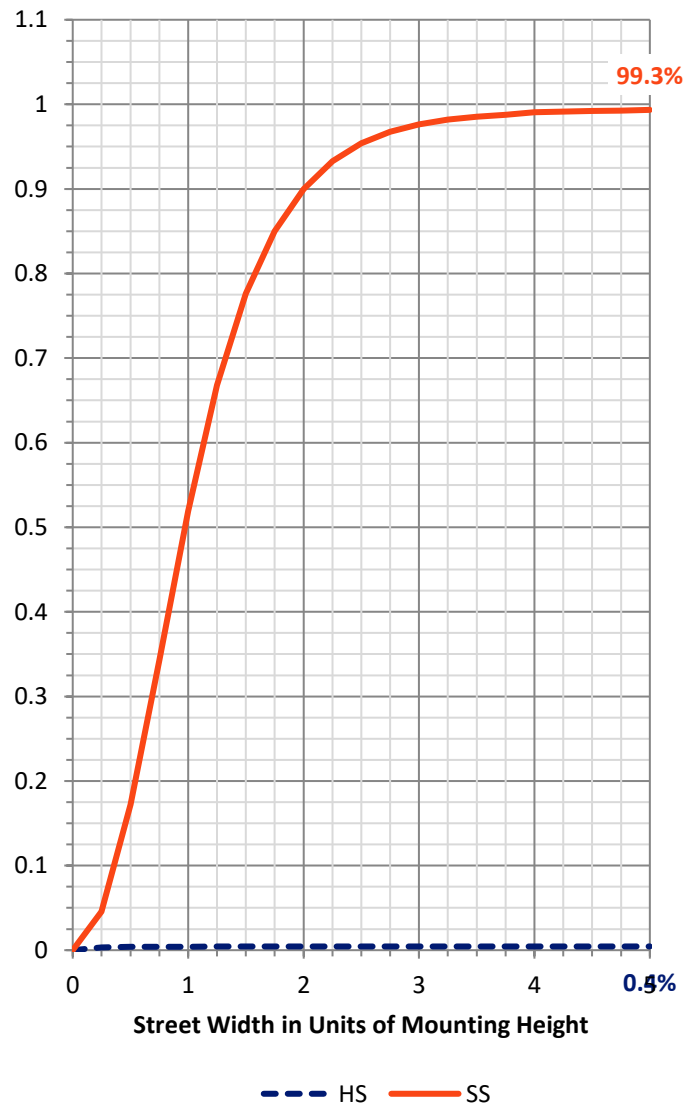
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18.7	0.0	18.7
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	4158.1	0.0	4158.1
	% Fixture	99.6	0.0	99.6
Total	Lumens	4176.8	0.0	4176.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.6	0.0
10°-20°	7.3	0.2
20°-30°	105.5	2.5
30°-40°	303.2	7.3
40°-50°	863.8	20.7
50°-60°	1358.7	32.5
60°-70°	1158.7	27.7
70°-80°	369.6	8.8
80°-90°	9.4	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°	4176.8	100.0
0°-180°	4176.8	100.0



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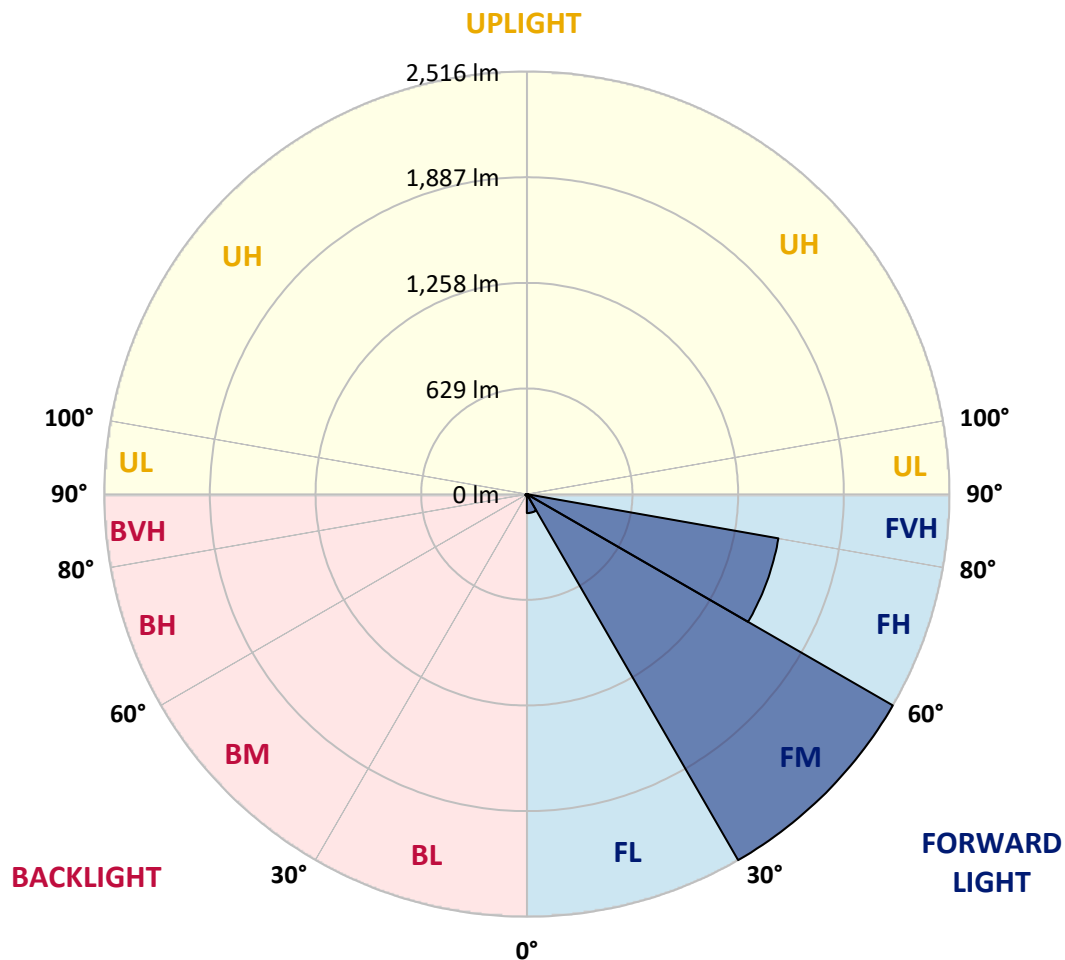
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	112.6	2.7			
FM	(30°-60°)	2515.7	60.2			
FH	(60°-80°)	1520.9	36.4			G1/1800
FVH	(80°-90°)	8.9	0.2			G0/10
BL	(0°-30°)	0.7	0.0	B0/110		
BM	(30°-60°)	10.0	0.2	B0/220		
BH	(60°-80°)	7.4	0.2	B0/110		G0/110
BVH	(80°-90°)	0.5	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
2.5°	15.0	15.9	16.7	15.9	14.2	10.9	10.9	8.4	5.9	3.3	2.5
5°	16.7	16.7	16.7	15.9	14.2	10.9	10.0	7.5	5.0	3.3	1.7
7.5°	18.4	18.4	17.6	15.9	13.4	10.9	10.0	7.5	5.0	2.5	0.0
10°	20.1	20.1	18.4	16.7	13.4	10.0	9.2	6.7	4.2	1.7	0.0
12.5°	22.6	21.7	19.2	16.7	13.4	9.2	9.2	6.7	3.3	0.8	0.0
15°	25.9	23.4	20.1	16.7	12.5	9.2	8.4	5.9	2.5	0.0	0.0
17.5°	28.4	25.9	20.9	15.9	11.7	8.4	7.5	5.0	2.5	0.0	0.0
20°	30.9	26.7	20.9	15.9	11.7	7.5	6.7	4.2	0.8	0.0	0.0
22.5°	35.1	28.4	20.9	15.9	10.9	6.7	5.9	3.3	0.0	0.0	0.0
25°	43.5	30.1	20.9	15.0	10.0	5.9	5.0	1.7	0.0	0.0	0.0
27.5°	53.5	32.6	20.9	14.2	9.2	5.0	4.2	0.8	0.0	0.0	0.0
30°	64.4	35.1	20.9	14.2	8.4	4.2	3.3	0.0	0.0	0.0	0.0
32.5°	76.1	38.5	20.9	13.4	7.5	3.3	2.5	0.0	0.0	0.0	0.0
35°	97.8	43.5	20.9	13.4	6.7	2.5	1.7	0.0	0.0	0.0	0.0
37.5°	107.8	50.2	20.9	12.5	6.7	1.7	0.8	0.0	0.0	0.0	0.0
40°	112.0	48.5	20.1	12.5	5.9	0.8	0.0	0.0	0.0	0.0	0.0
42.5°	121.2	45.1	20.9	11.7	5.9	0.8	0.0	0.0	0.0	0.0	0.0
45°	148.0	45.1	22.6	11.7	5.0	1.7	0.0	0.0	0.0	0.0	0.0
47.5°	256.6	46.8	21.7	11.7	5.0	1.7	0.0	0.0	0.0	0.0	0.0
50°	422.1	55.2	20.9	12.5	5.9	0.8	0.0	0.0	0.0	0.0	0.0
52.5°	489.8	66.9	20.9	13.4	7.5	0.0	0.0	0.0	0.0	0.0	0.0
55°	469.8	81.9	20.9	14.2	9.2	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	427.1	77.7	22.6	16.7	11.7	0.0	0.0	0.0	0.0	0.0	0.0
58°	411.3	77.7	22.6	16.7	11.7	0.0	0.0	0.0	0.0	0.0	0.0
60°	322.7	79.4	25.9	18.4	12.5	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	239.9	81.1	29.3	20.9	12.5	0.8	0.0	0.0	0.0	0.0	0.0
65°	178.0	84.4	30.9	24.2	11.7	1.7	0.0	0.0	0.0	0.0	0.0
67.5°	142.1	86.9	33.4	26.7	13.4	3.3	0.8	0.0	0.0	0.0	0.0
70°	122.0	83.6	35.9	27.6	12.5	5.0	2.5	0.0	0.0	0.0	0.0
72.5°	108.7	78.6	41.0	26.7	13.4	5.0	2.5	0.0	0.0	0.0	0.0
75°	97.8	71.9	46.8	25.9	13.4	5.0	3.3	0.0	0.0	0.0	0.0
77.5°	73.6	62.7	46.0	25.1	12.5	5.0	3.3	0.0	0.0	0.0	0.0
80°	36.8	41.8	40.1	22.6	10.0	4.2	3.3	0.8	0.0	0.0	0.0
82.5°	15.0	15.9	20.1	16.7	8.4	3.3	3.3	0.8	0.0	0.0	0.0
85°	1.7	3.3	5.9	6.7	5.9	3.3	3.3	0.8	0.0	0.0	0.0
87.5°	0.0	0.8	3.3	5.0	4.2	2.5	1.7	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°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
2.5°	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
5°	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
2.5°	0.8	1.7	1.7	1.7	2.5	2.5	3.3	4.2	4.2	4.2	5.0
5°	0.0	0.0	0.8	0.8	1.7	2.5	3.3	5.0	5.9	5.9	6.7
7.5°	0.0	0.0	0.0	0.8	1.7	2.5	3.3	5.0	6.7	7.5	8.4
10°	0.0	0.0	0.0	0.0	0.8	1.7	3.3	5.9	8.4	10.0	11.7
12.5°	0.0	0.0	0.0	0.0	0.0	0.8	3.3	6.7	10.0	12.5	14.2
15°	0.0	0.0	0.0	0.0	0.0	0.8	3.3	6.7	12.5	15.0	18.4
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.3	7.5	14.2	18.4	25.1
20°	0.0	0.0	0.0	0.0	0.0	0.0	2.5	7.5	15.9	22.6	37.6
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.5	7.5	17.6	29.3	69.4
25°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	7.5	20.1	43.5	115.4
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	8.4	24.2	61.0	168.9
30°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	8.4	30.1	82.8	235.7
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	8.4	35.1	104.5	321.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	41.8	138.8	402.9
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	51.8	153.0	472.3
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	49.3	166.3	551.7
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	45.1	185.6	676.2
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	45.1	245.8	952.1
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	55.2	382.8	1455.3
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	71.1	587.6	2072.2
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	86.1	723.1	2430.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	103.7	723.9	2418.3
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	115.4	647.8	2182.5
58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	114.5	626.9	2117.3
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	8.4	100.3	544.2	1848.2
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.3	13.4	87.8	390.4	1532.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	6.7	15.0	80.2	283.4	1150.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	8.4	17.6	76.9	200.6	800.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	10.0	20.1	71.1	143.8	526.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	10.0	25.1	66.9	112.8	317.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	10.0	31.8	58.5	91.9	170.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	10.0	34.3	48.5	66.9	103.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	9.2	30.9	35.1	29.3	35.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.0	18.4	7.5	7.5	11.7
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):

	285°	295°	305°	313°	315°	325°	335°	345°	355°	360°
0°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
2.5°	5.9	5.9	5.9	5.9	6.7	6.7	9.2	11.7	14.2	15.0
5°	7.5	8.4	9.2	9.2	9.2	10.0	11.7	13.4	15.9	16.7
7.5°	10.9	11.7	13.4	13.4	13.4	14.2	15.0	16.7	18.4	18.4
10°	14.2	16.7	17.6	18.4	19.2	19.2	19.2	20.1	20.9	20.1
12.5°	19.2	22.6	26.7	27.6	27.6	27.6	26.7	25.1	23.4	22.6
15°	26.7	36.8	50.2	55.2	52.7	46.8	41.0	31.8	27.6	25.9
17.5°	49.3	100.3	182.2	201.5	197.3	169.7	99.5	48.5	32.6	28.4
20°	132.9	324.3	535.0	586.0	612.7	507.4	293.4	112.8	40.1	30.9
22.5°	286.7	673.7	1044.0	1176.1	1184.5	952.9	570.9	229.0	57.7	35.1
25°	461.4	1077.5	1582.4	1710.3	1712.8	1468.7	912.8	371.1	87.8	43.5
27.5°	707.2	1510.5	2075.5	2181.7	2180.0	1932.6	1319.1	566.7	122.9	53.5
30°	958.8	1848.2	2400.7	2532.8	2545.3	2249.4	1658.4	798.3	160.5	64.4
32.5°	1207.9	2098.1	2697.5	2873.0	2862.1	2529.4	1895.0	988.0	224.9	76.1
35°	1404.3	2311.3	3026.0	3241.6	3250.0	2837.0	2104.8	1171.9	280.0	97.8
37.5°	1572.3	2586.3	3463.1	3712.2	3723.1	3219.9	2324.6	1352.5	327.7	107.8
40°	1779.6	3037.7	4187.0	4610.0	4611.7	3933.8	2720.0	1554.8	392.0	112.0
42.5°	2245.2	4004.8	5601.4	6209.1	6261.7	5415.0	3618.6	1993.6	493.2	121.2
45°	3176.4	5279.6	7405.2	8104.9	8171.8	7258.1	5159.2	3006.7	715.5	148.0
47.5°	4284.0	6388.0	8453.5	9127.2	9171.5	8130.0	6190.7	4178.7	1217.9	256.6
50°	4965.3	6798.4	8838.8	9481.6	9489.2	8416.7	6514.2	4787.2	1735.3	422.1
52.5°	5176.7	6851.0	8853.9	9631.3	9653.0	8383.3	6558.5	4910.1	1951.0	489.8
55°	5090.6	6820.1	9012.7	9917.1	9940.5	8519.5	6528.4	4775.5	1849.8	469.8
57.5°	4894.2	6940.5	9273.5	10256.5	10256.5	8771.1	6639.6	4549.8	1602.4	427.1
58°	4864.9	6970.6	9287.7	10274.9	10267.4	8787.0	6685.5	4517.2	1548.1	411.3
60°	4824.8	7063.4	9182.4	10003.2	9981.5	8675.0	6769.1	4488.0	1284.8	322.7
62.5°	4766.3	6854.4	8415.0	9204.1	9148.1	7890.1	6529.2	4316.6	958.8	239.9
65°	4466.2	6082.9	7014.9	7561.6	7544.0	6490.8	5619.8	3866.9	690.5	178.0
67.5°	3764.9	4762.1	5666.6	6325.3	6329.4	5298.8	4395.2	3090.3	469.8	142.1
70°	2648.1	3512.5	4817.3	5550.4	5583.8	4444.5	3255.8	2059.7	310.1	122.0
72.5°	1581.5	2653.2	4005.6	4562.3	4544.8	3688.0	2415.8	1227.9	188.9	108.7
75°	766.5	1585.7	2024.6	2348.0	2334.7	1844.8	1287.3	601.8	137.9	97.8
77.5°	208.1	487.3	784.1	1019.8	1047.4	738.9	422.1	161.3	86.1	73.6
80°	70.2	150.5	255.8	347.7	356.9	319.3	158.8	56.8	37.6	36.8
82.5°	26.7	36.8	46.8	41.8	41.8	43.5	34.3	24.2	17.6	15.0
85°	0.0	0.0	0.8	1.7	1.7	2.5	2.5	2.5	1.7	1.7
87.5°	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

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

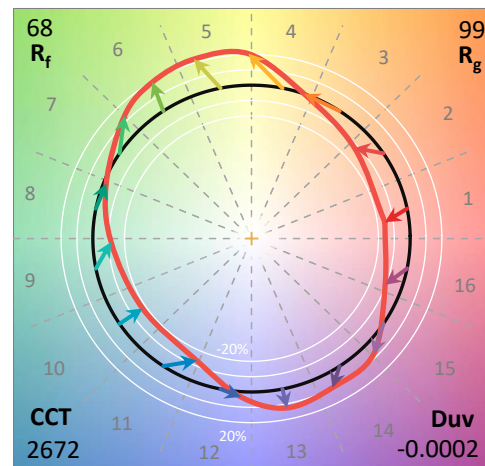
Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

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

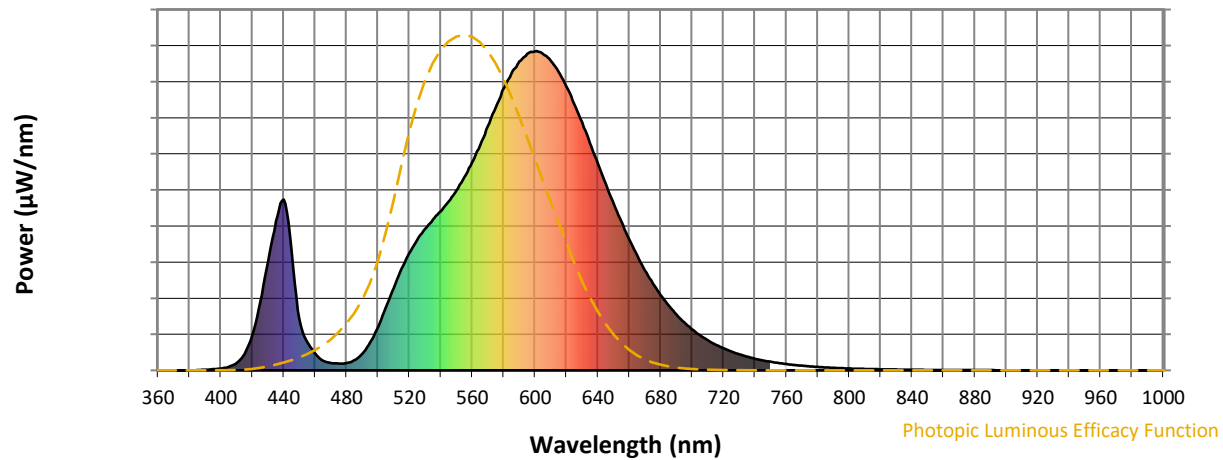
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

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

REPORT NUMBER: SP1-2407-184-3

Photopic Flux vs. Wavelength

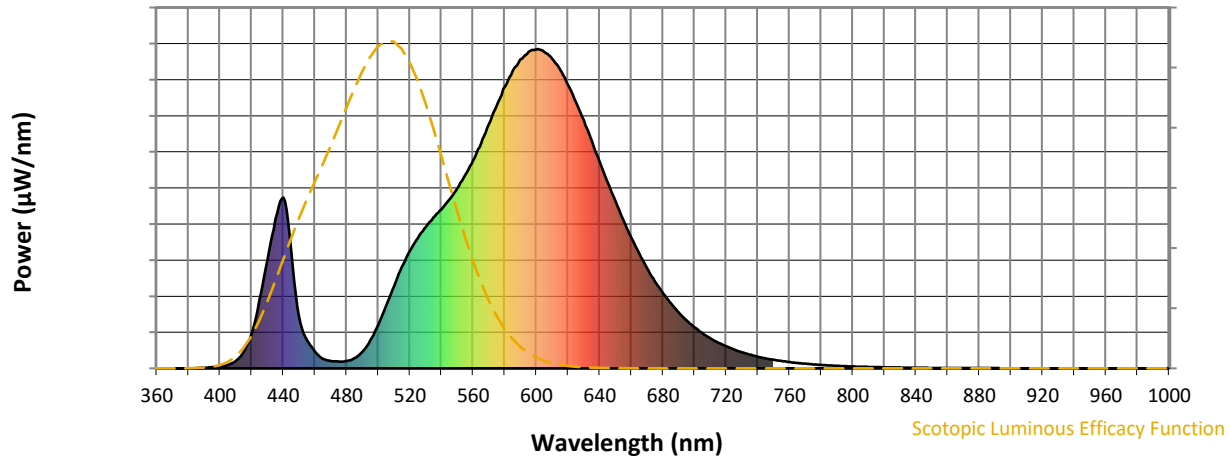


Photopic Lumens: NR

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



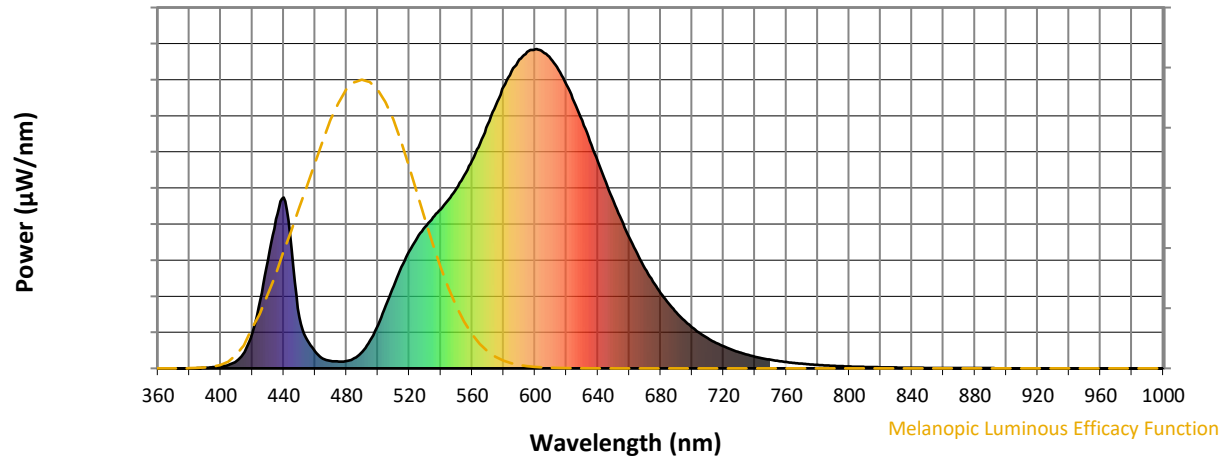
Scotopic Lumens: NR

S/P: 1.02

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

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			

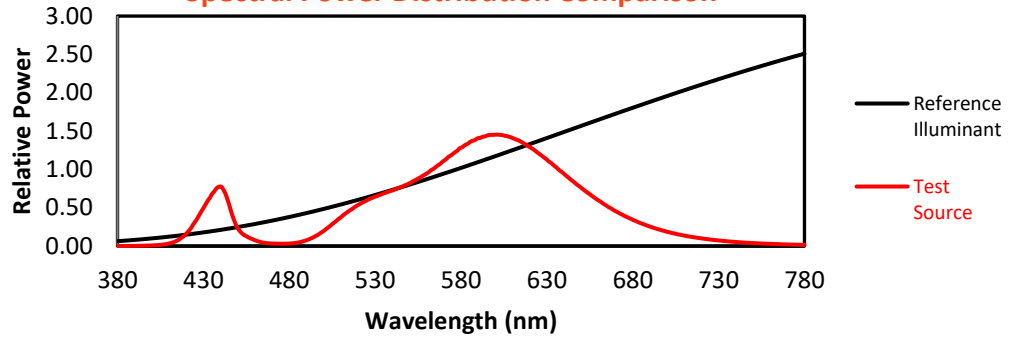
REPORT NUMBER: SP1-2407-184-3

TM-30-18

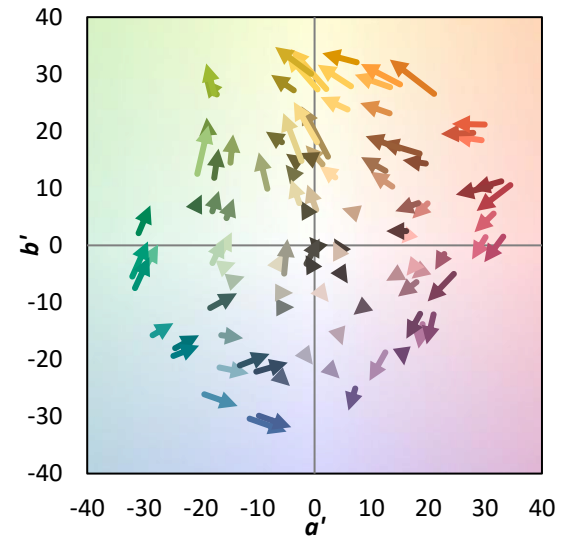
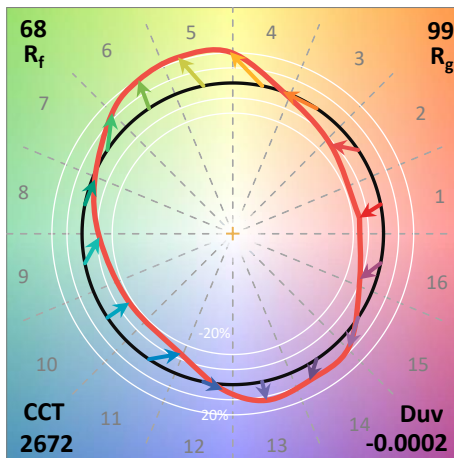
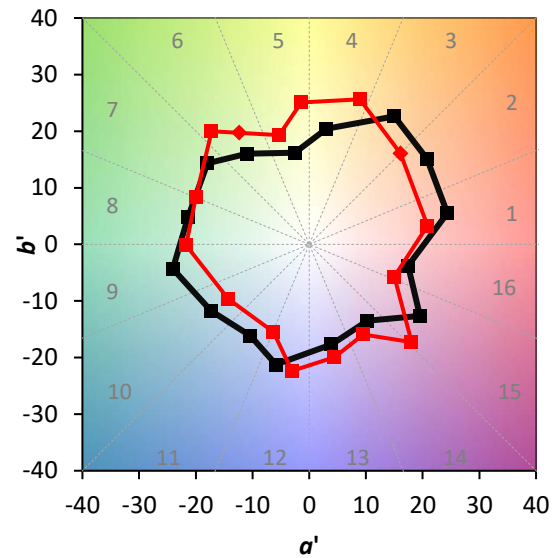
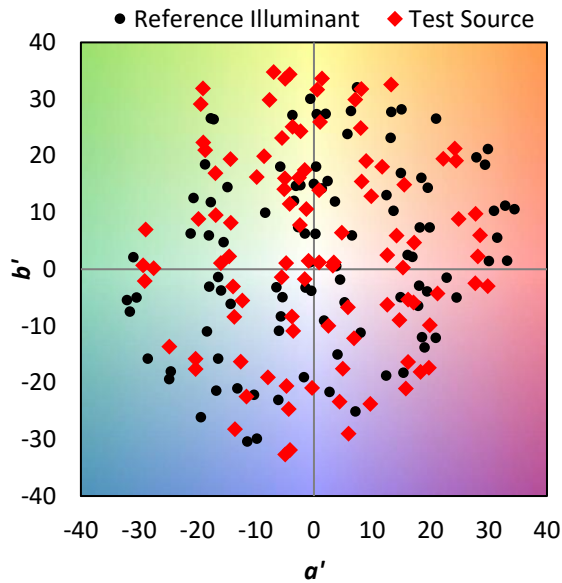
Summary

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

Spectral Power Distribution Comparison

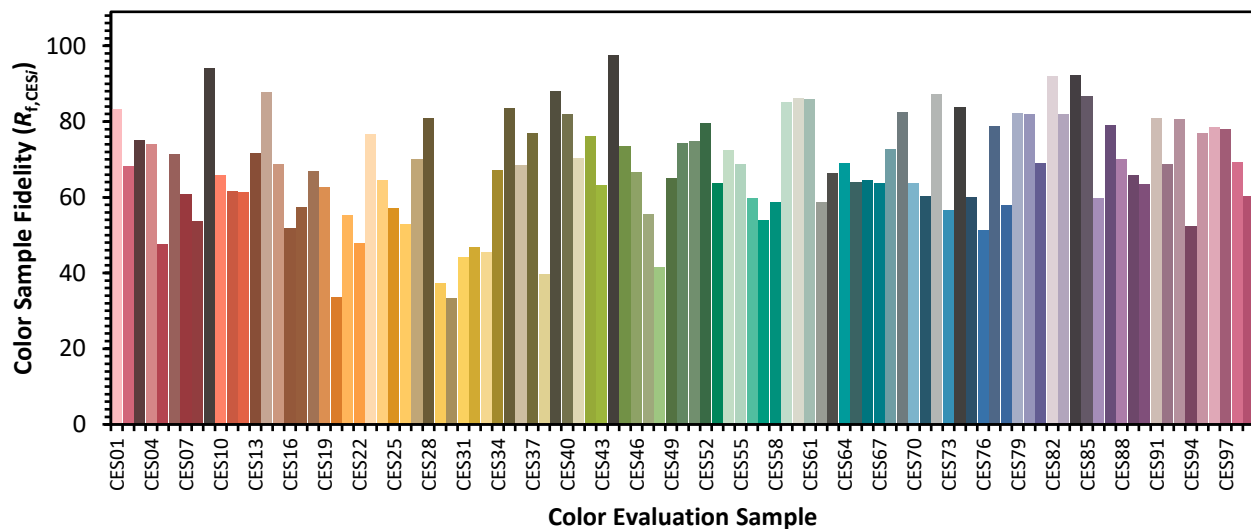


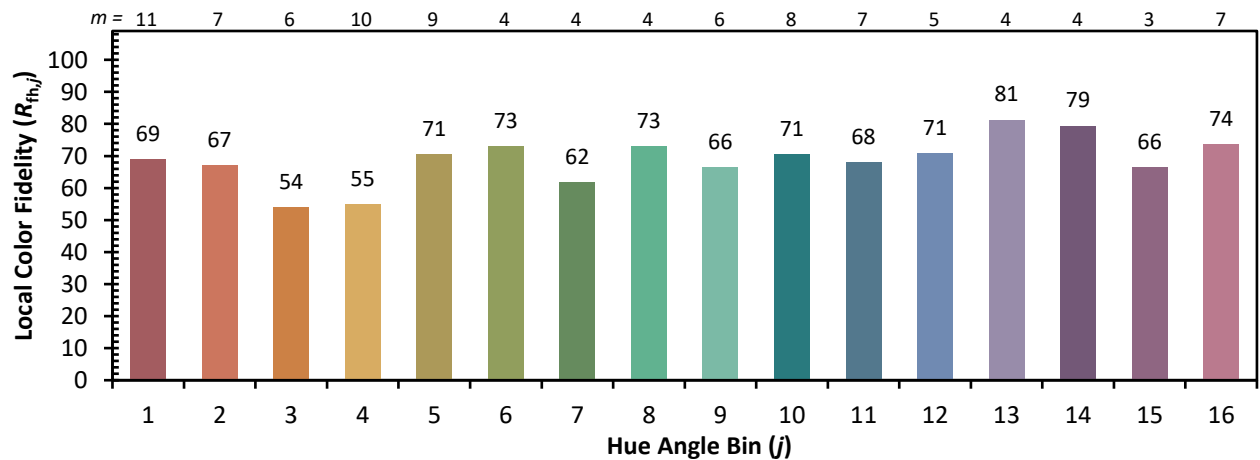
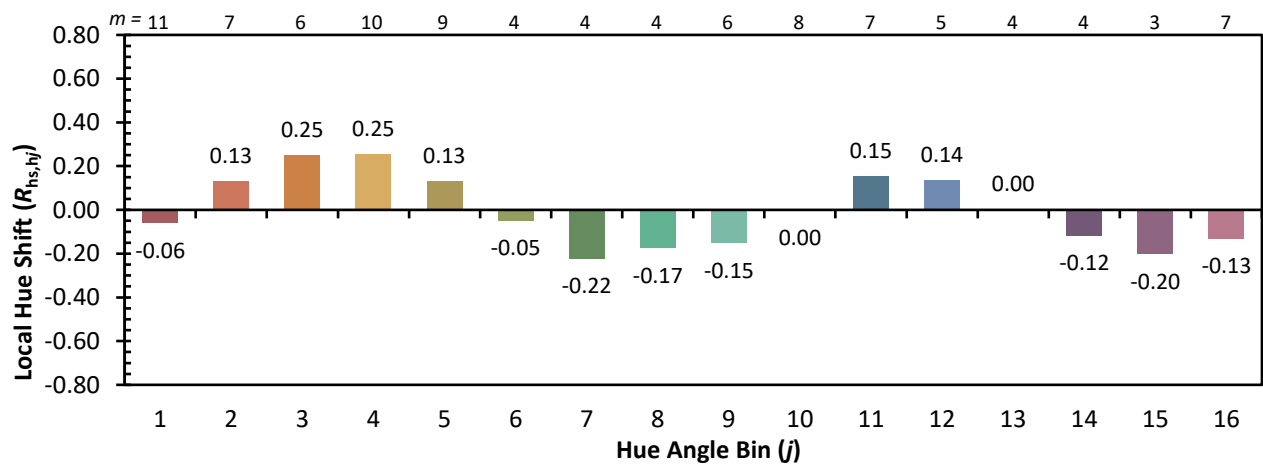
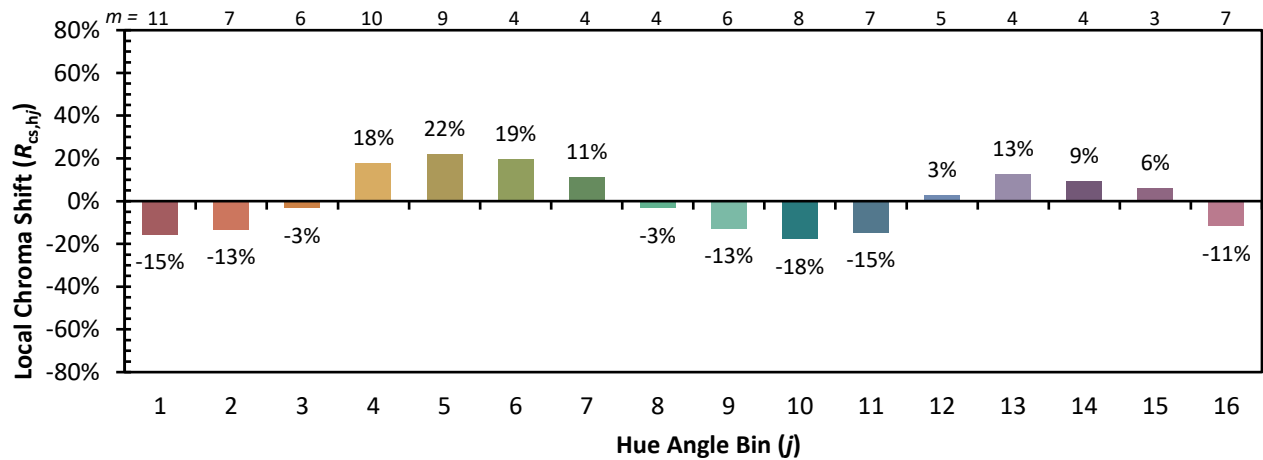
Color Vector Graphics



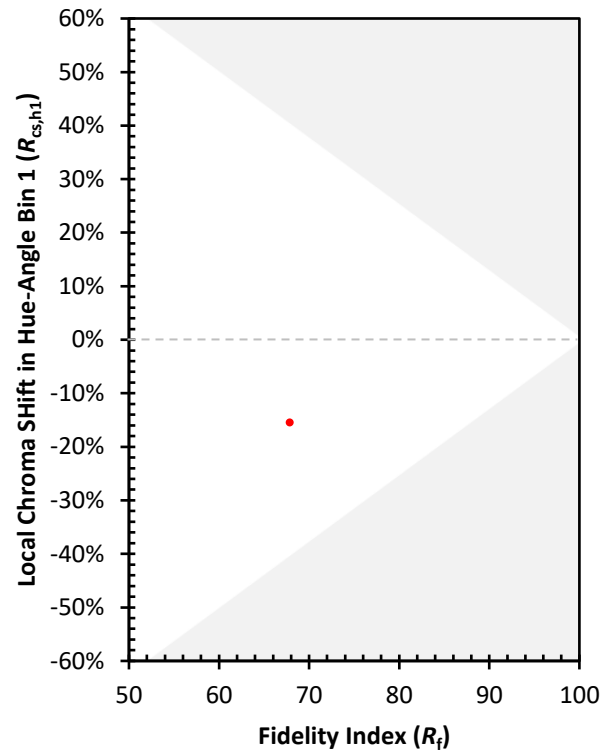
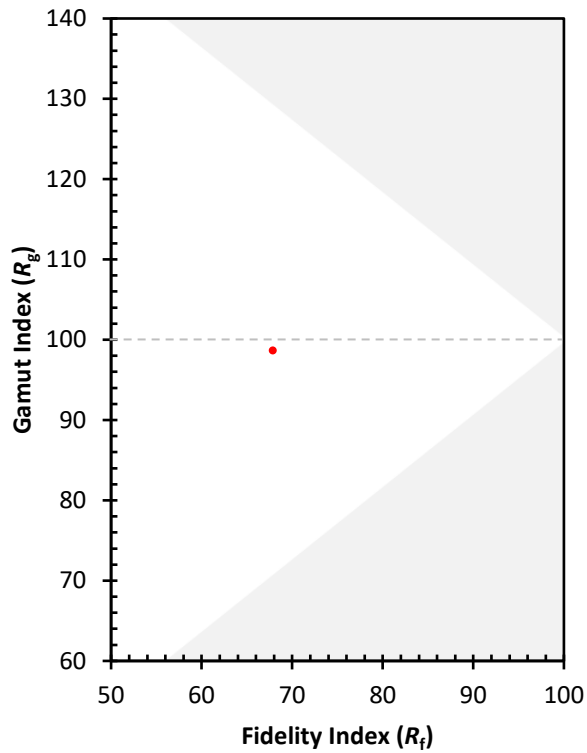
Individual Sample Fidelity Index ($R_{f,i}$)

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)