

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: P991284

Luminaire Tested: **GPC-SA2D-827-U-RBC**

Issue Date: 07/03/2025

Test Information

Test Method: LM-79-08
Report Number: P991284
Test Lab: INNOVATION CENTER(G1)
Issue Date: 07/03/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-SA2D-827-U-RBC
Description: GALLEON PEDESTRAIAN COMPANION 1200mA 2xLight Square PACKAGE 80CRI
2700K FIXTURE w/ RIGHT CORNER BACKLIGHT CONTROL
Light Source: (28) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7983.8 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 0.67' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 108.2
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

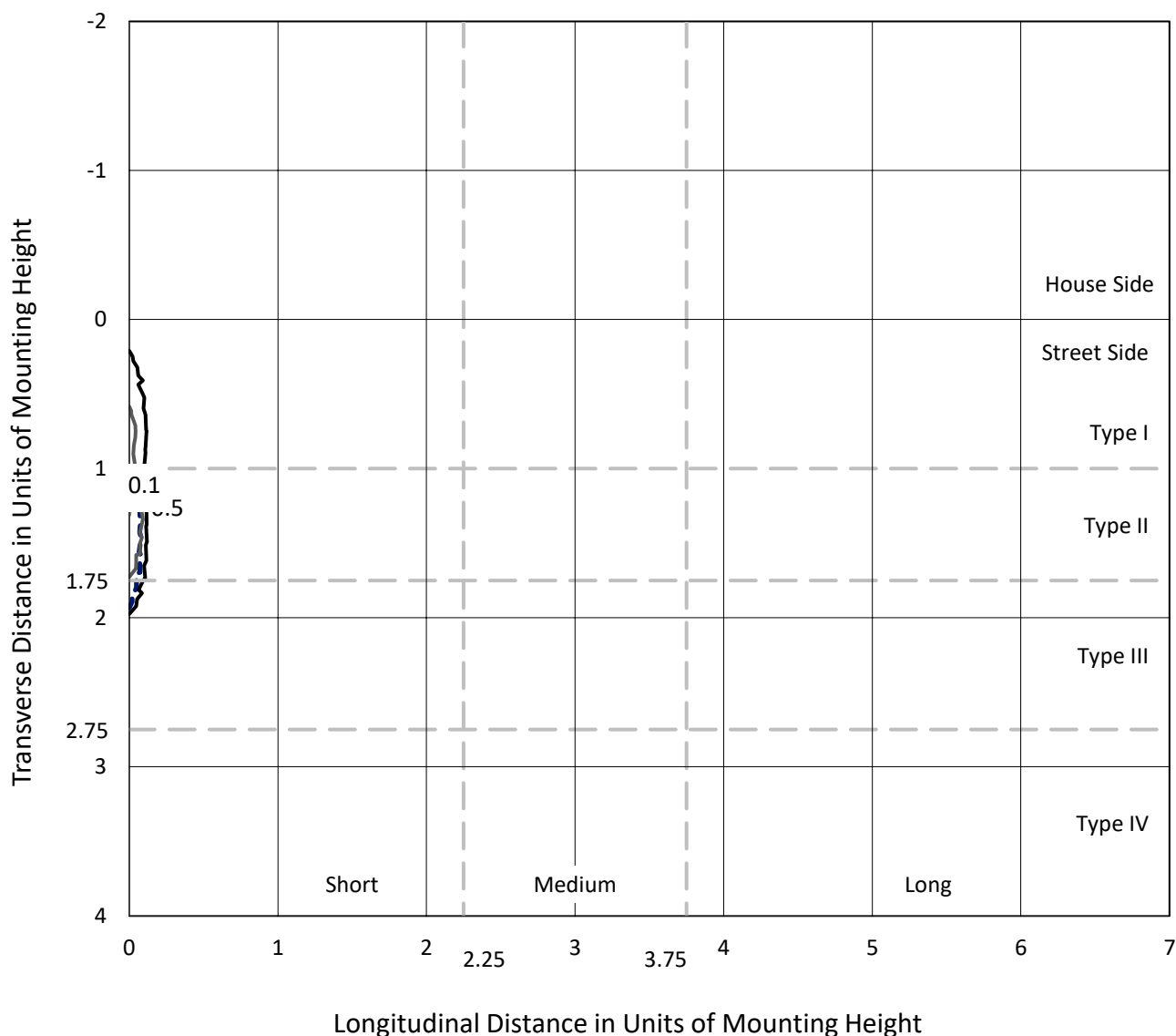
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

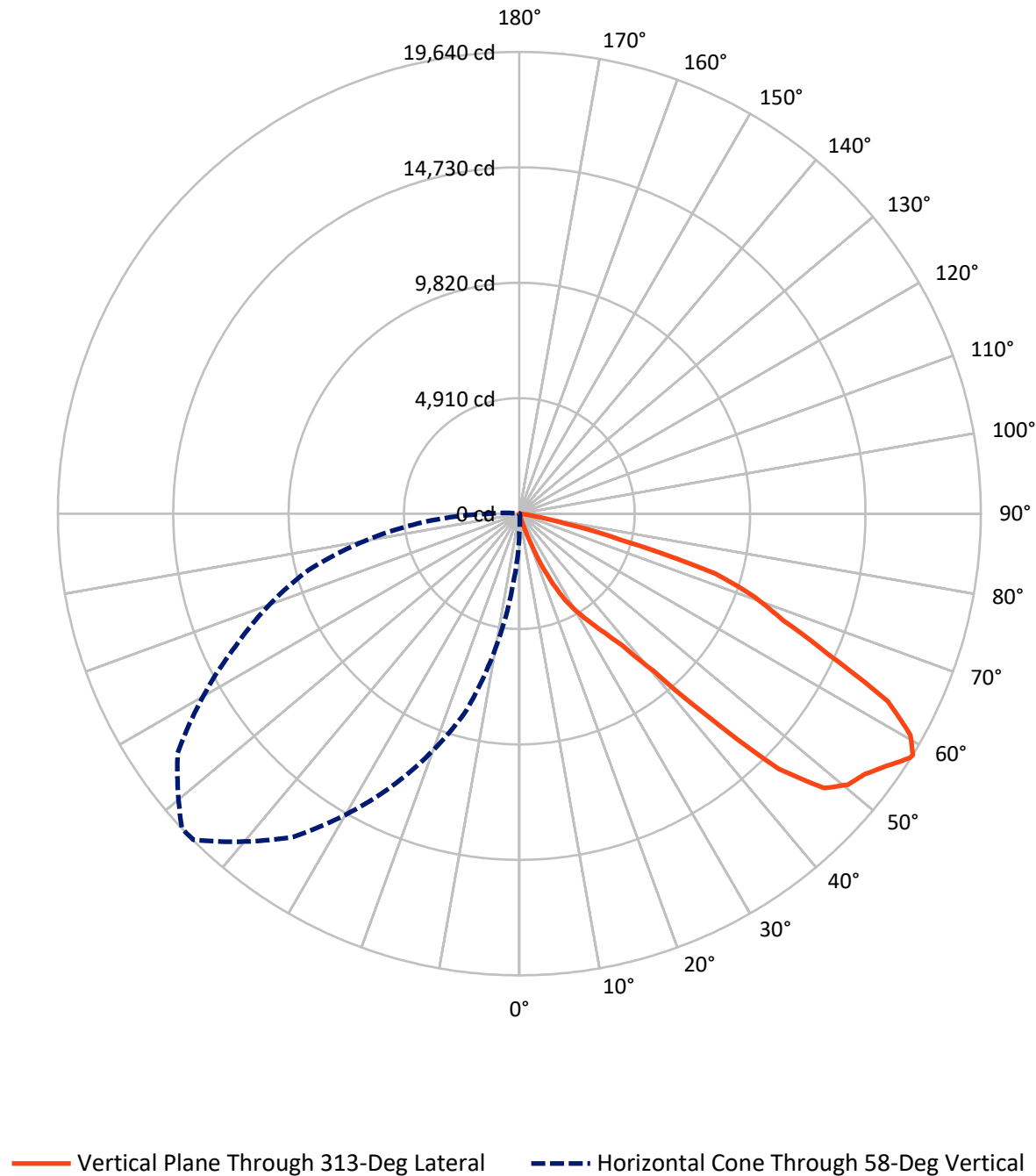


Based on 20 foot mounting height. Maximum calculated value = 0.5 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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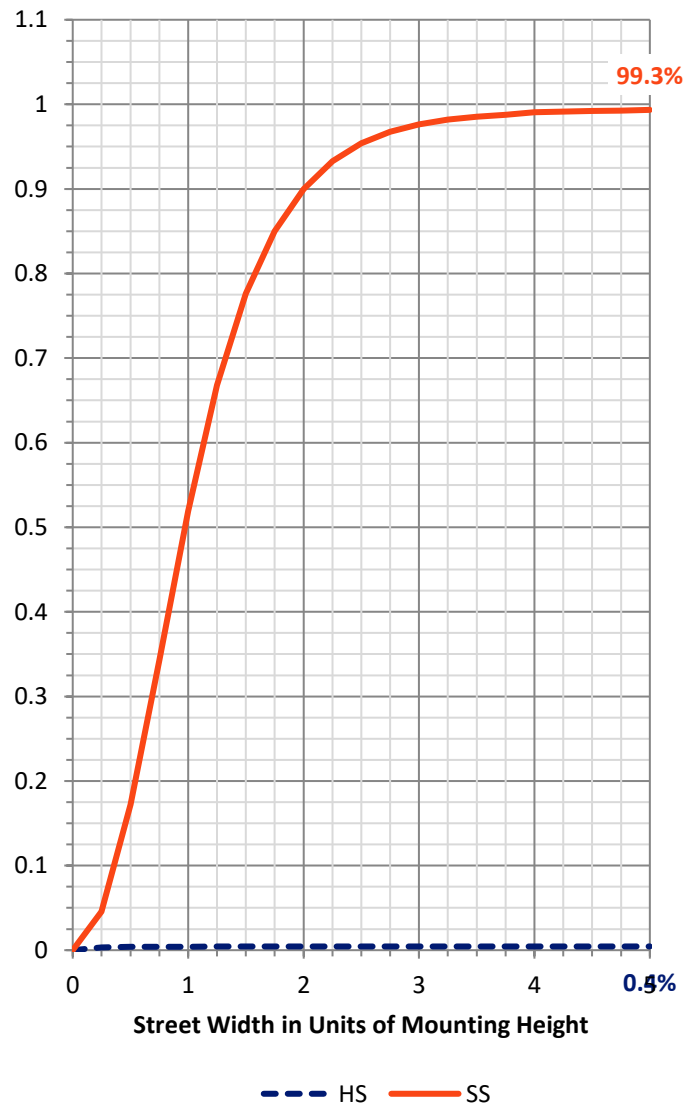
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	35.7	0.0	35.7
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	7948.1	0.0	7948.1
	% Fixture	99.6	0.0	99.6
Total	Lumens	7983.8	0.0	7983.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.2	0.0
10°-20°	13.9	0.2
20°-30°	201.6	2.5
30°-40°	579.6	7.3
40°-50°	1651.1	20.7
50°-60°	2597.1	32.5
60°-70°	2214.8	27.7
70°-80°	706.5	8.8
80°-90°	18.0	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°	7983.8	100.0
0°-180°	7983.8	100.0



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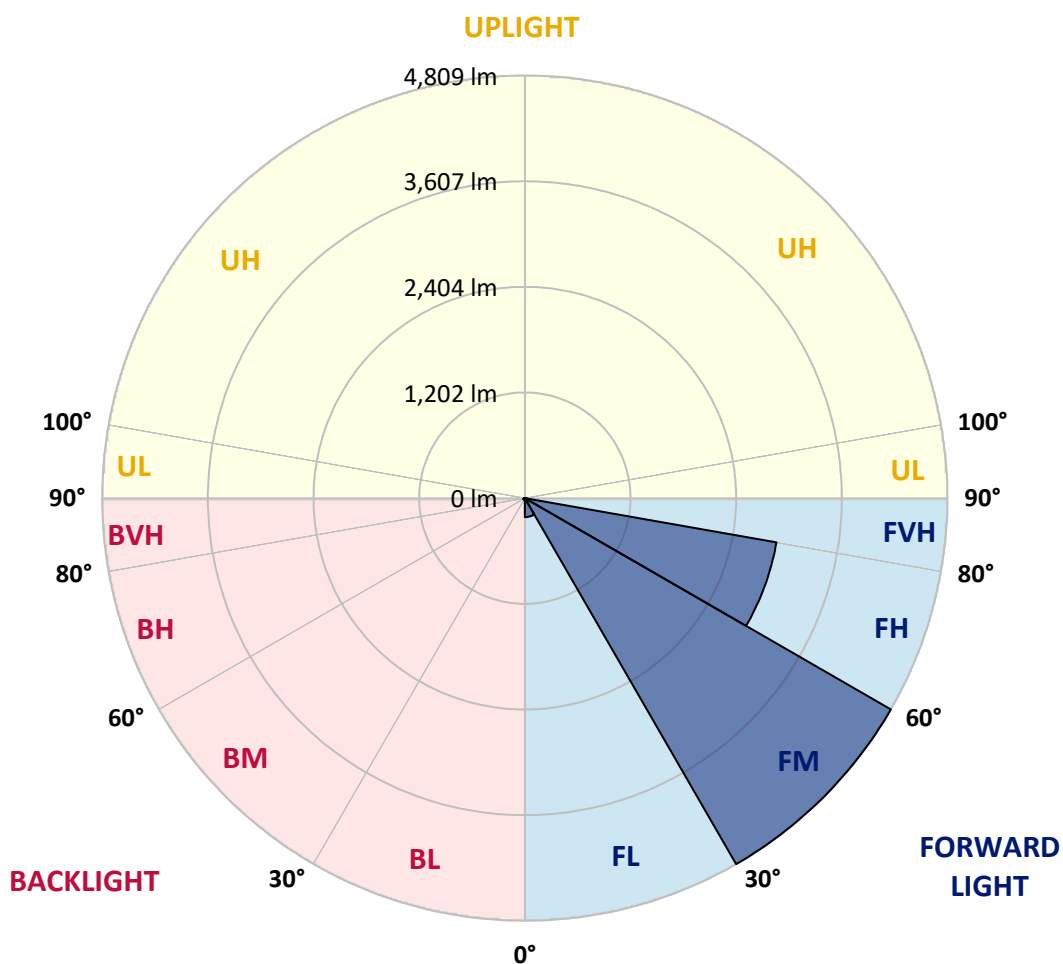
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	215.2	2.7			
FM	(30°-60°)	4808.7	60.2			
FH	(60°-80°)	2907.1	36.4			G2/5000
FVH	(80°-90°)	17.0	0.2			G1/100
BL	(0°-30°)	1.4	0.0	B0/110		
BM	(30°-60°)	19.1	0.2	B0/220		
BH	(60°-80°)	14.2	0.2	B0/110		G0/110
BVH	(80°-90°)	1.0	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°	45°	47°	55°	65°	75°	85°
0°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
2.5°	28.8	30.4	32.0	30.4	27.2	20.8	20.8	16.0	11.2	6.4	4.8
5°	32.0	32.0	32.0	30.4	27.2	20.8	19.2	14.4	9.6	6.4	3.2
7.5°	35.2	35.2	33.6	30.4	25.6	20.8	19.2	14.4	9.6	4.8	0.0
10°	38.3	38.3	35.2	32.0	25.6	19.2	17.6	12.8	8.0	3.2	0.0
12.5°	43.1	41.5	36.7	32.0	25.6	17.6	17.6	12.8	6.4	1.6	0.0
15°	49.5	44.7	38.3	32.0	24.0	17.6	16.0	11.2	4.8	0.0	0.0
17.5°	54.3	49.5	39.9	30.4	22.4	16.0	14.4	9.6	4.8	0.0	0.0
20°	59.1	51.1	39.9	30.4	22.4	14.4	12.8	8.0	1.6	0.0	0.0
22.5°	67.1	54.3	39.9	30.4	20.8	12.8	11.2	6.4	0.0	0.0	0.0
25°	83.1	57.5	39.9	28.8	19.2	11.2	9.6	3.2	0.0	0.0	0.0
27.5°	102.3	62.3	39.9	27.2	17.6	9.6	8.0	1.6	0.0	0.0	0.0
30°	123.0	67.1	39.9	27.2	16.0	8.0	6.4	0.0	0.0	0.0	0.0
32.5°	145.4	73.5	39.9	25.6	14.4	6.4	4.8	0.0	0.0	0.0	0.0
35°	186.9	83.1	39.9	25.6	12.8	4.8	3.2	0.0	0.0	0.0	0.0
37.5°	206.1	95.9	39.9	24.0	12.8	3.2	1.6	0.0	0.0	0.0	0.0
40°	214.1	92.7	38.3	24.0	11.2	1.6	0.0	0.0	0.0	0.0	0.0
42.5°	231.7	86.3	39.9	22.4	11.2	1.6	0.0	0.0	0.0	0.0	0.0
45°	282.8	86.3	43.1	22.4	9.6	3.2	0.0	0.0	0.0	0.0	0.0
47.5°	490.5	89.5	41.5	22.4	9.6	3.2	0.0	0.0	0.0	0.0	0.0
50°	806.9	105.5	39.9	24.0	11.2	1.6	0.0	0.0	0.0	0.0	0.0
52.5°	936.3	127.8	39.9	25.6	14.4	0.0	0.0	0.0	0.0	0.0	0.0
55°	898.0	156.6	39.9	27.2	17.6	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	816.5	148.6	43.1	32.0	22.4	0.0	0.0	0.0	0.0	0.0	0.0
58°	786.1	148.6	43.1	32.0	22.4	0.0	0.0	0.0	0.0	0.0	0.0
60°	616.7	151.8	49.5	35.2	24.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	458.6	155.0	55.9	39.9	24.0	1.6	0.0	0.0	0.0	0.0	0.0
65°	340.3	161.4	59.1	46.3	22.4	3.2	0.0	0.0	0.0	0.0	0.0
67.5°	271.6	166.2	63.9	51.1	25.6	6.4	1.6	0.0	0.0	0.0	0.0
70°	233.3	159.8	68.7	52.7	24.0	9.6	4.8	0.0	0.0	0.0	0.0
72.5°	207.7	150.2	78.3	51.1	25.6	9.6	4.8	0.0	0.0	0.0	0.0
75°	186.9	137.4	89.5	49.5	25.6	9.6	6.4	0.0	0.0	0.0	0.0
77.5°	140.6	119.8	87.9	47.9	24.0	9.6	6.4	0.0	0.0	0.0	0.0
80°	70.3	79.9	76.7	43.1	19.2	8.0	6.4	1.6	0.0	0.0	0.0
82.5°	28.8	30.4	38.3	32.0	16.0	6.4	6.4	1.6	0.0	0.0	0.0
85°	3.2	6.4	11.2	12.8	11.2	6.4	6.4	1.6	0.0	0.0	0.0
87.5°	0.0	1.6	6.4	9.6	8.0	4.8	3.2	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°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
2.5°	3.2	3.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
5°	1.6	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°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
2.5°	1.6	3.2	3.2	3.2	4.8	4.8	6.4	8.0	8.0	8.0	9.6
5°	0.0	0.0	1.6	1.6	3.2	4.8	6.4	9.6	11.2	11.2	12.8
7.5°	0.0	0.0	0.0	1.6	3.2	4.8	6.4	9.6	12.8	14.4	16.0
10°	0.0	0.0	0.0	0.0	1.6	3.2	6.4	11.2	16.0	19.2	22.4
12.5°	0.0	0.0	0.0	0.0	0.0	1.6	6.4	12.8	19.2	24.0	27.2
15°	0.0	0.0	0.0	0.0	0.0	1.6	6.4	12.8	24.0	28.8	35.2
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.4	14.4	27.2	35.2	47.9
20°	0.0	0.0	0.0	0.0	0.0	0.0	4.8	14.4	30.4	43.1	71.9
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.8	14.4	33.6	55.9	132.6
25°	0.0	0.0	0.0	0.0	0.0	0.0	3.2	14.4	38.3	83.1	220.5
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.2	16.0	46.3	116.6	322.8
30°	0.0	0.0	0.0	0.0	0.0	0.0	3.2	16.0	57.5	158.2	450.6
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	16.0	67.1	199.7	613.6
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.4	79.9	265.2	770.1
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.4	99.1	292.4	902.8
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.8	94.3	318.0	1054.5
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.4	86.3	354.7	1292.6
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.4	86.3	469.8	1819.9
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.8	105.5	731.8	2781.8
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6	135.8	1123.2	3960.9
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	164.6	1382.1	4644.8
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	198.1	1383.7	4622.4
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6	220.5	1238.3	4171.8
58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2	218.9	1198.3	4047.2
60°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	16.0	191.7	1040.2	3532.7
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.4	25.6	167.8	746.2	2928.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	12.8	28.8	153.4	541.7	2198.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	16.0	33.6	147.0	383.5	1529.1
70°	0.0	0.0	0.0	0.0	0.0	0.0	19.2	38.3	135.8	274.8	1006.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	19.2	47.9	127.8	215.7	607.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	19.2	60.7	111.8	175.8	325.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	19.2	65.5	92.7	127.8	198.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	17.6	59.1	67.1	55.9	67.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.6	35.2	14.4	14.4	22.4
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°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
2.5°	11.2	11.2	11.2	11.2	12.8	12.8	17.6	22.4	27.2	28.8
5°	14.4	16.0	17.6	17.6	17.6	19.2	22.4	25.6	30.4	32.0
7.5°	20.8	22.4	25.6	25.6	25.6	27.2	28.8	32.0	35.2	35.2
10°	27.2	32.0	33.6	35.2	36.7	36.7	36.7	38.3	39.9	38.3
12.5°	36.7	43.1	51.1	52.7	52.7	52.7	51.1	47.9	44.7	43.1
15°	51.1	70.3	95.9	105.5	100.7	89.5	78.3	60.7	52.7	49.5
17.5°	94.3	191.7	348.3	385.1	377.1	324.4	190.1	92.7	62.3	54.3
20°	254.0	619.9	1022.6	1120.1	1171.2	969.9	560.8	215.7	76.7	59.1
22.5°	548.0	1287.8	1995.6	2248.1	2264.1	1821.5	1091.3	437.8	110.2	67.1
25°	882.0	2059.6	3024.6	3269.1	3273.9	2807.3	1744.8	709.4	167.8	83.1
27.5°	1351.7	2887.2	3967.3	4170.2	4167.0	3694.1	2521.3	1083.3	234.9	102.3
30°	1832.7	3532.7	4588.9	4841.3	4865.3	4299.7	3170.0	1525.9	306.8	123.0
32.5°	2308.8	4010.5	5156.1	5491.6	5470.8	4834.9	3622.2	1888.6	429.8	145.4
35°	2684.3	4417.9	5784.0	6196.2	6212.2	5422.9	4023.2	2240.1	535.3	186.9
37.5°	3005.4	4943.6	6619.7	7095.8	7116.6	6154.7	4443.5	2585.2	626.3	206.1
40°	3401.7	5806.4	8003.3	8811.8	8815.0	7519.2	5199.2	2971.9	749.4	214.1
42.5°	4291.7	7655.0	10706.8	11868.4	11969.1	10350.5	6916.8	3810.7	942.7	231.7
45°	6071.6	10091.7	14154.9	15492.2	15620.0	13873.6	9861.6	5747.3	1367.7	282.8
47.5°	8188.7	12210.3	16158.5	17446.3	17531.0	15540.1	11833.3	7987.4	2328.0	490.5
50°	9490.9	12994.9	16895.1	18123.8	18138.1	16088.2	12451.6	9150.6	3317.0	806.9
52.5°	9895.1	13095.5	16923.8	18409.8	18451.3	16024.3	12536.3	9385.4	3729.2	936.3
55°	9730.6	13036.4	17227.4	18956.2	19001.0	16284.7	12478.8	9128.2	3535.9	898.0
57.5°	9355.1	13266.5	17725.9	19604.9	19604.9	16765.6	12691.3	8696.8	3063.0	816.5
58°	9299.2	13324.0	17753.1	19640.1	19625.7	16796.0	12779.2	8634.5	2959.1	786.1
60°	9222.5	13501.4	17551.8	19120.8	19079.2	16581.9	12938.9	8578.6	2455.8	616.7
62.5°	9110.6	13101.9	16085.0	17593.3	17486.2	15081.6	12480.4	8251.0	1832.7	458.6
65°	8537.0	11627.1	13408.7	14453.6	14420.1	12406.9	10742.0	7391.4	1319.8	340.3
67.5°	7196.5	9102.6	10831.4	12090.5	12098.5	10128.4	8401.2	5907.0	898.0	271.6
70°	5061.8	6713.9	9208.1	10609.3	10673.3	8495.5	6223.4	3937.0	592.8	233.3
72.5°	3023.0	5071.4	7656.6	8720.8	8687.2	7049.5	4617.6	2347.2	361.1	207.7
75°	1465.2	3031.0	3869.9	4488.2	4462.6	3526.3	2460.6	1150.4	263.6	186.9
77.5°	397.9	931.5	1498.7	1949.3	2002.0	1412.4	806.9	308.4	164.6	140.6
80°	134.2	287.6	488.9	664.7	682.3	610.4	303.6	108.6	71.9	70.3
82.5°	51.1	70.3	89.5	79.9	79.9	83.1	65.5	46.3	33.6	28.8
85°	0.0	0.0	1.6	3.2	3.2	4.8	4.8	4.8	3.2	3.2
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: SP1-2407-184-8

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-827-U-5WQ

Data in this report applies to families of products including GSS-SB1A-827-U-5WQ

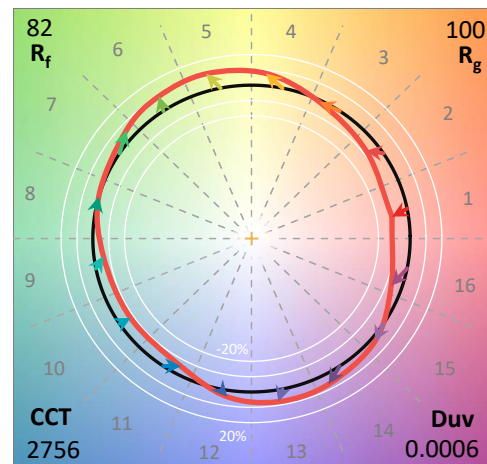
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-8
 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-827-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K): 2756
 CIE u' : 0.2599
 CIE v' : 0.5271
 Duv: 0.0006
 CIE x: 0.4563
 CIE y: 0.4112
 CIE z: 0.1325
 Peak Wavelength (nm): 609
 Dominant Wavelength (nm): 583
 Purity: 60.41121
 R_f: 82.2
 R_g: 99.9

CRI (Ra): 82.9
 R1: 81.6
 R2: 88.8
 R3: 96.0
 R4: 83.4
 R5: 81.4
 R6: 87.0
 R7: 84.0
 R8: 60.8
 R9: 10.8
 R10: 74.8
 R11: 84.3
 R12: 72.1
 R13: 82.9
 R14: 97.3
 R15: 73.7



Test Conditions

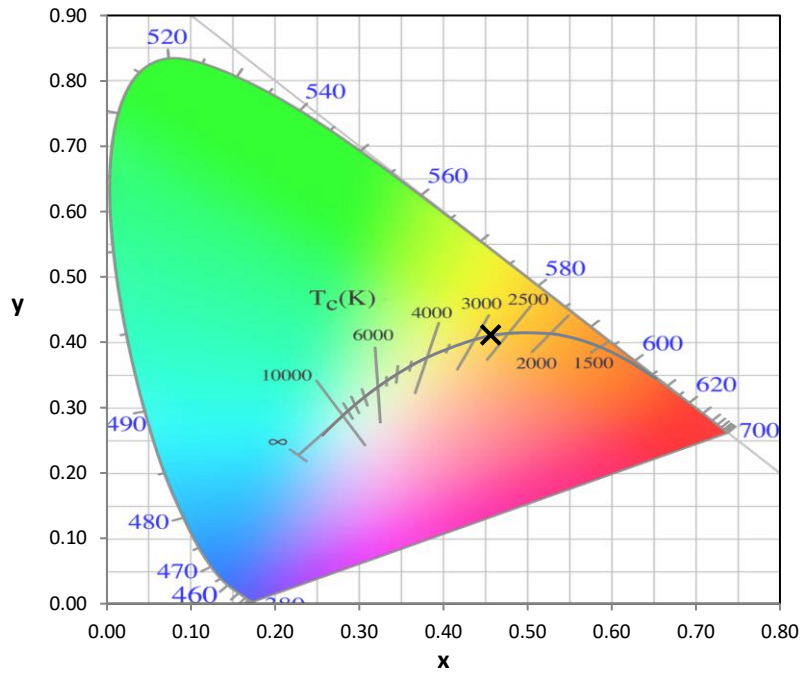
Stabilization Time: 29M
 Operation Time: 1H 29M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-8

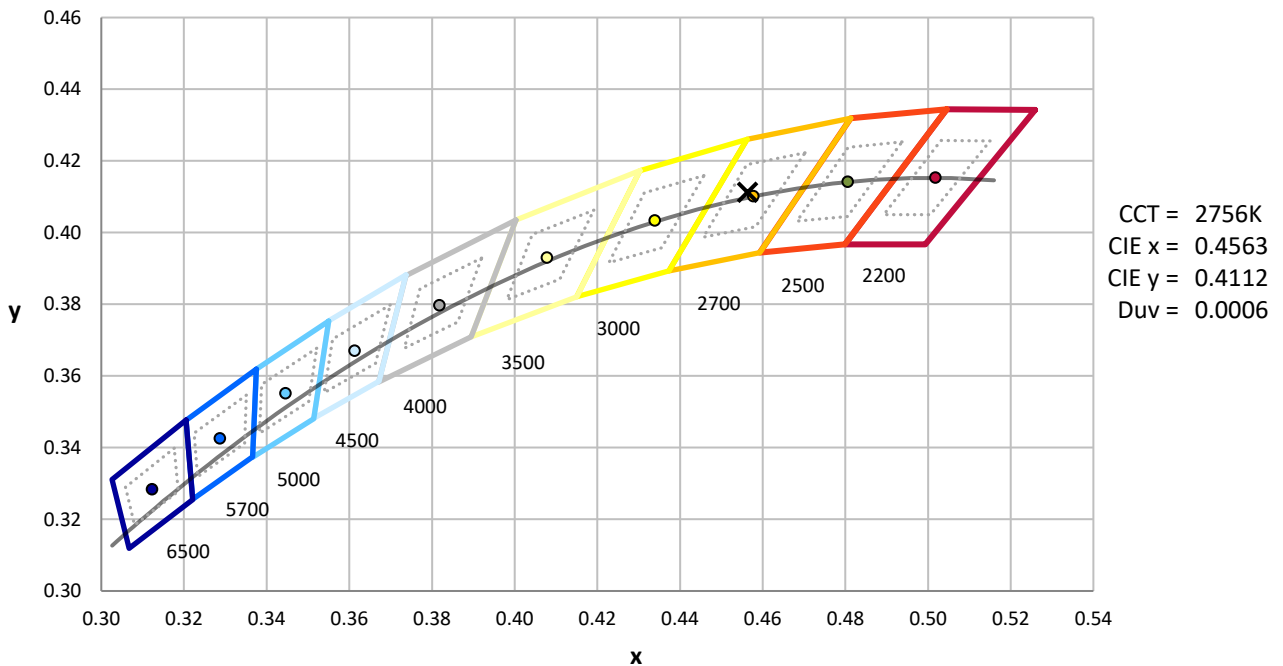
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



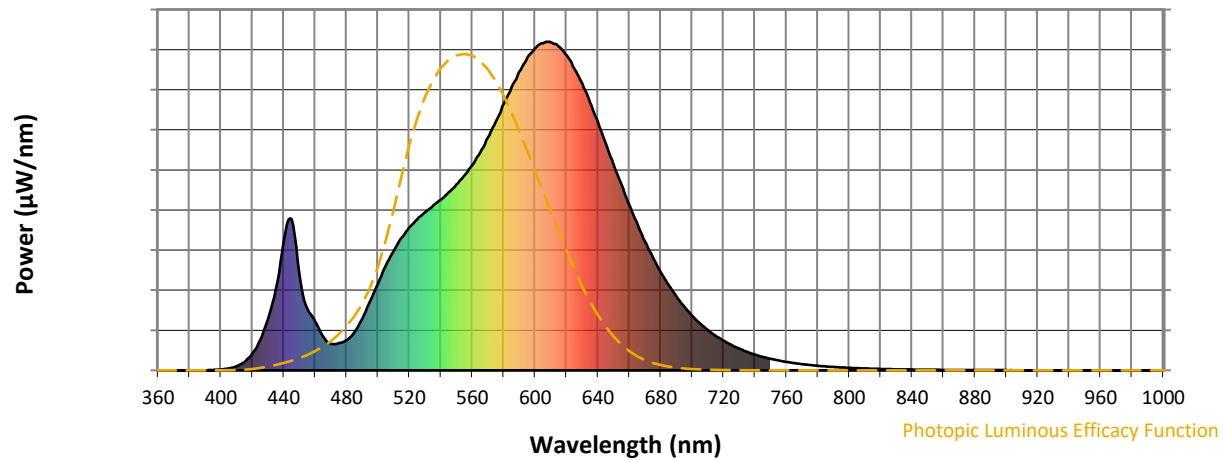
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-8

Photopic Flux vs. Wavelength

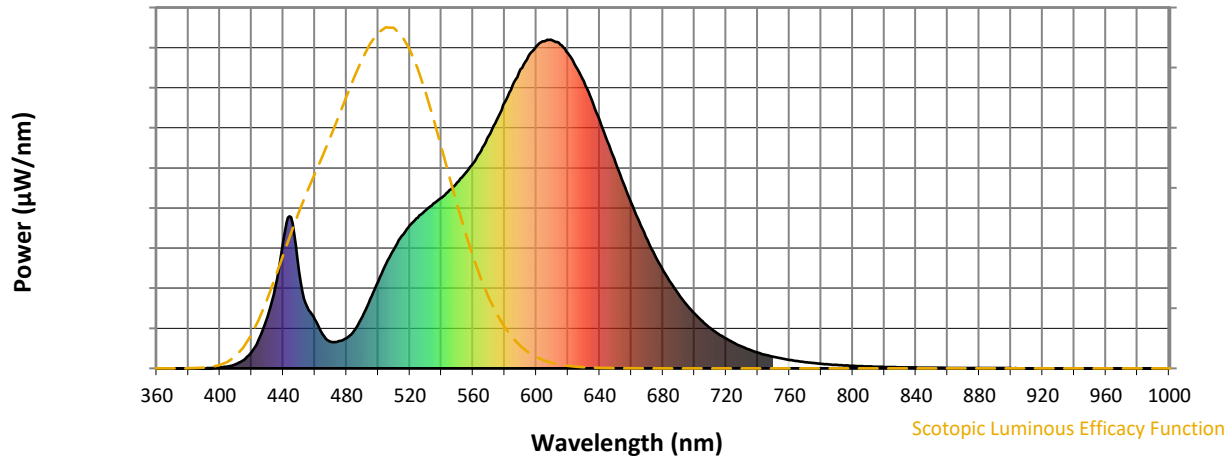


Photopic Lumens: NR

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

Scotopic Flux vs. Wavelength



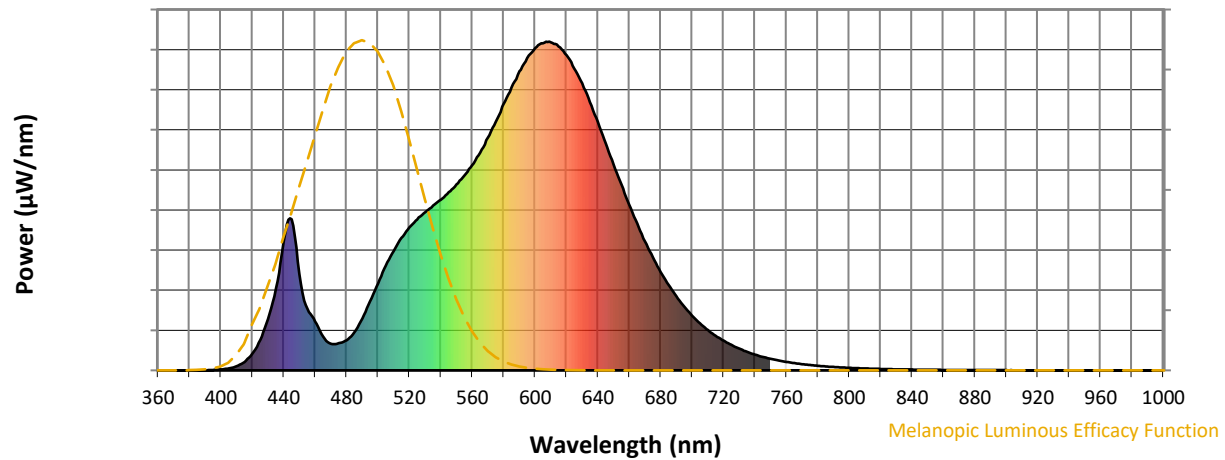
Scotopic Lumens: NR

S/P: 1.2

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.16

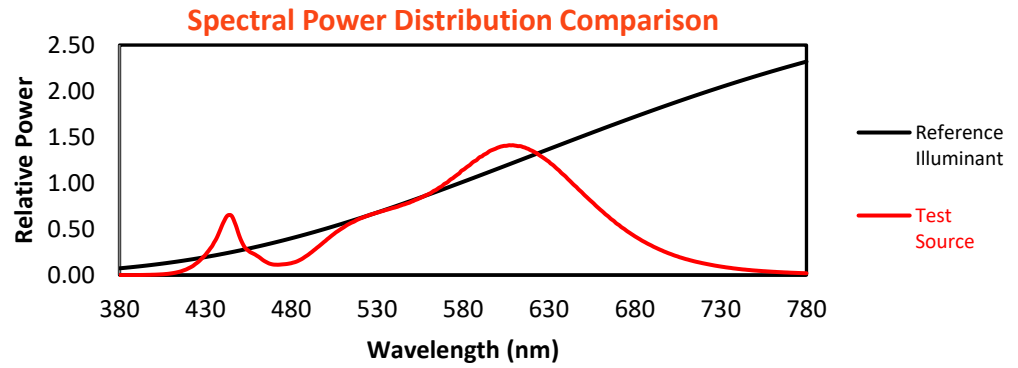
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

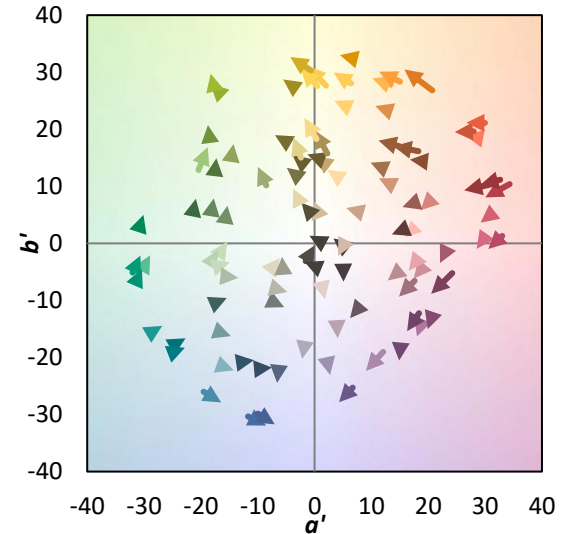
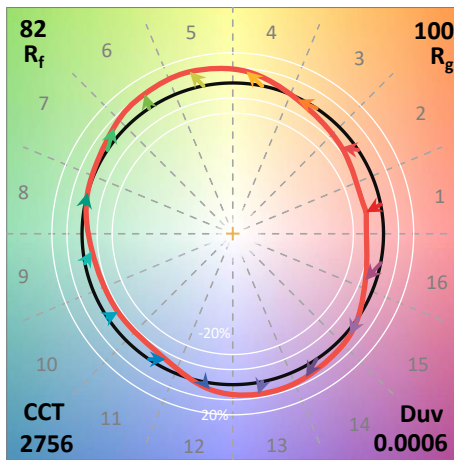
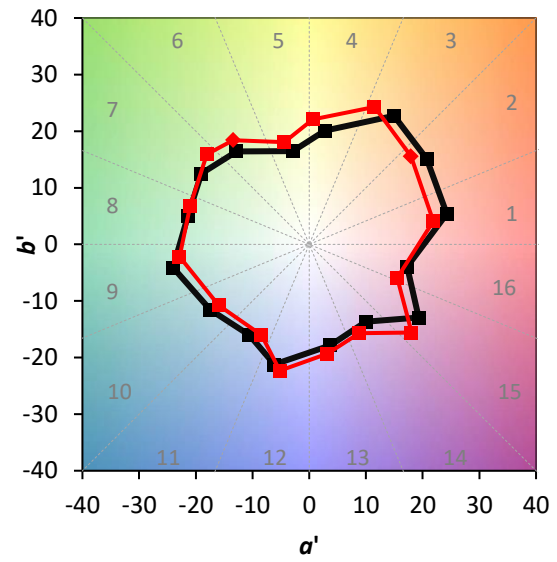
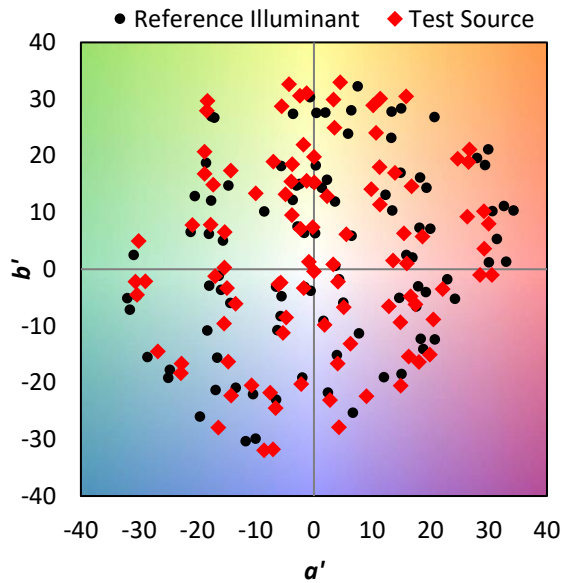
TM-30-18

Summary

$R_f = 82.2$
 $R_g = 99.9$
 $CIE R_a = 82.9$
 $R_9 = 10.8$

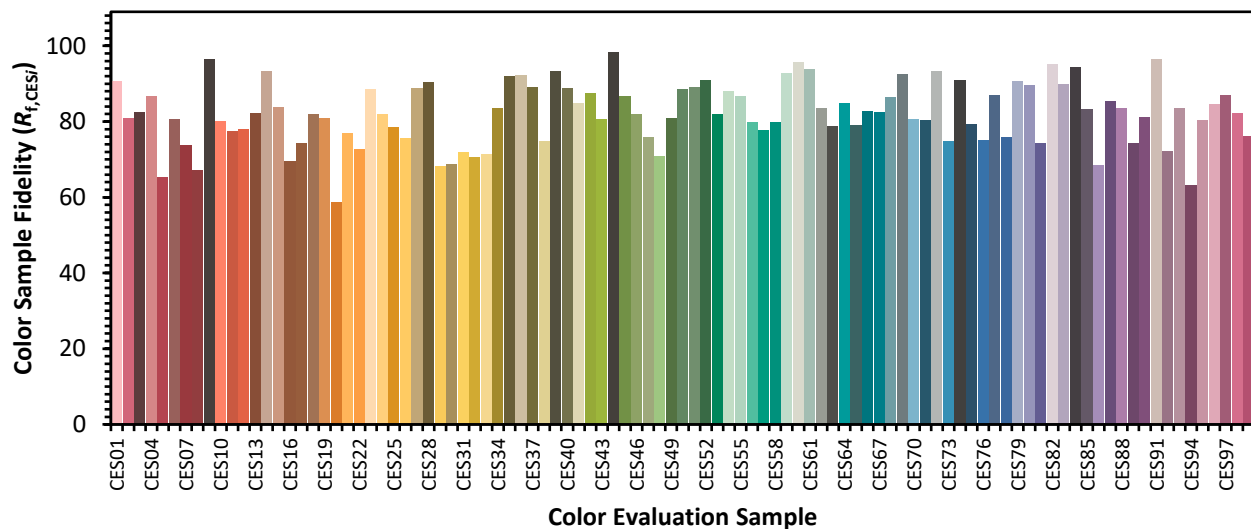


Color Vector Graphics

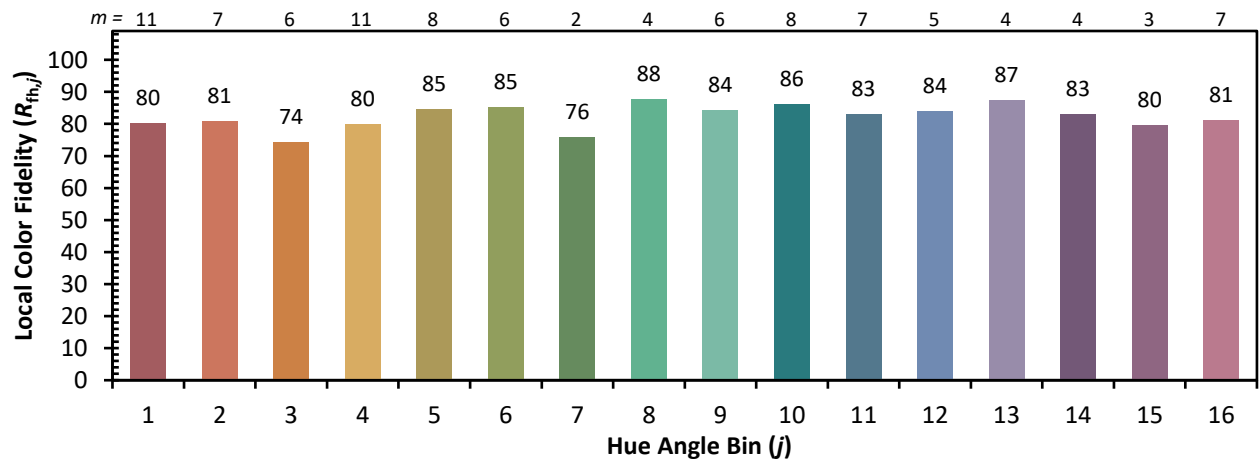
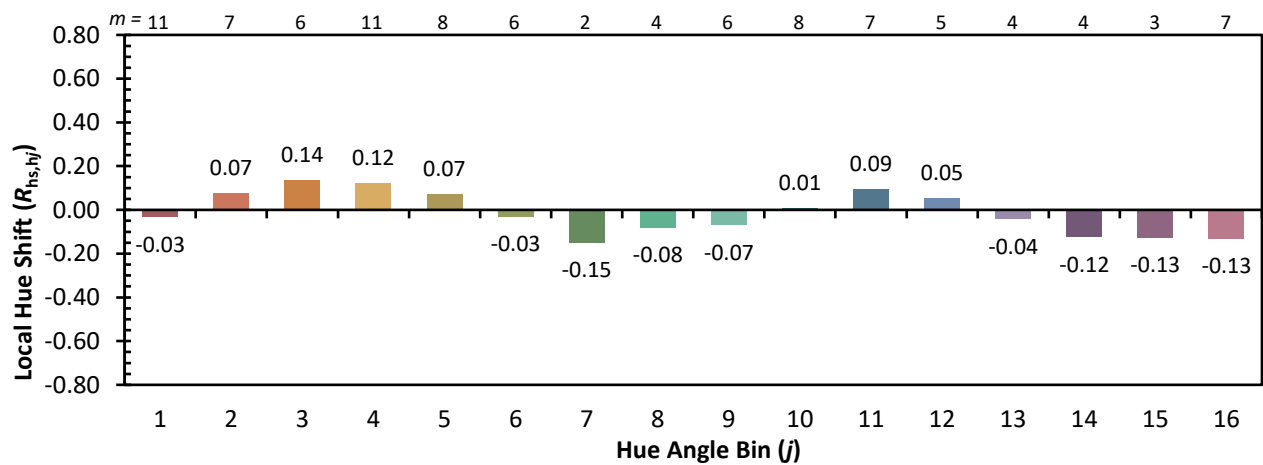
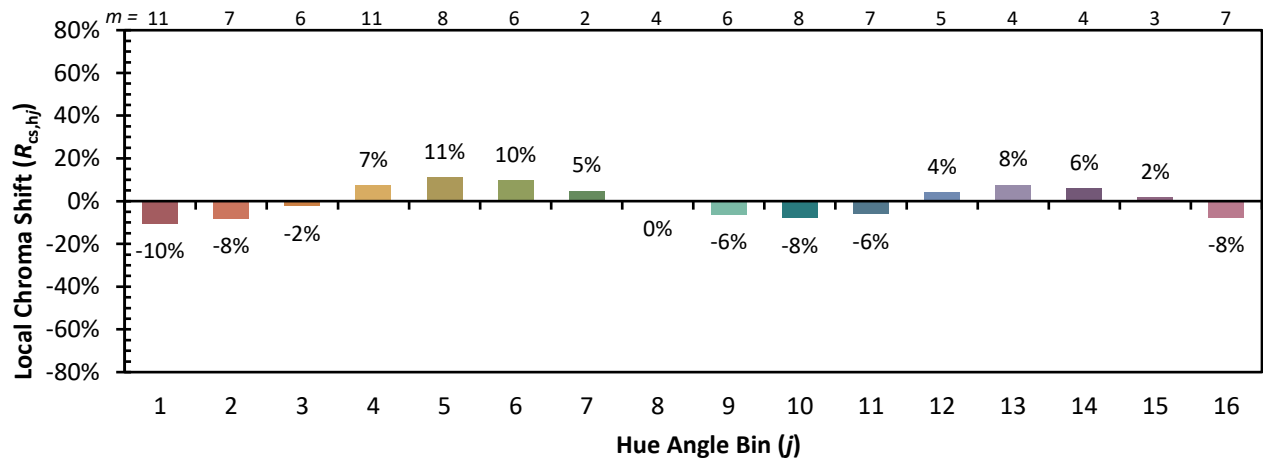


Individual Sample Fidelity Index ($R_{f,i}$)

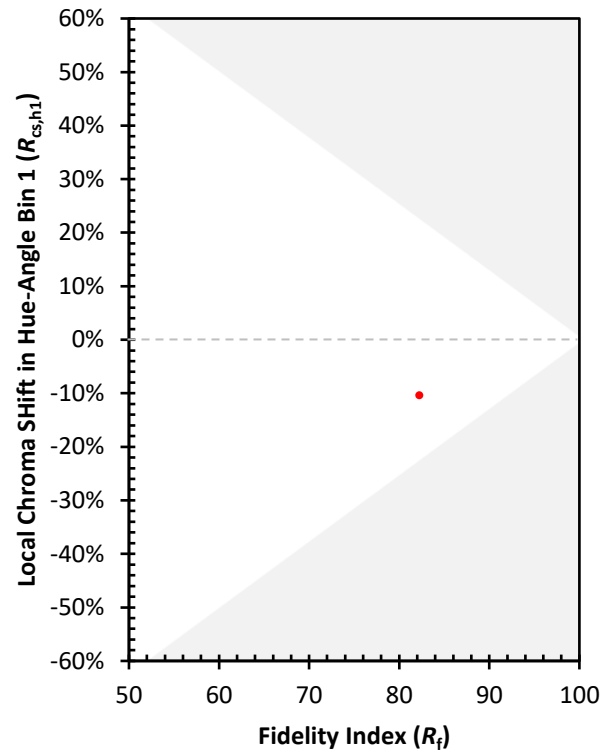
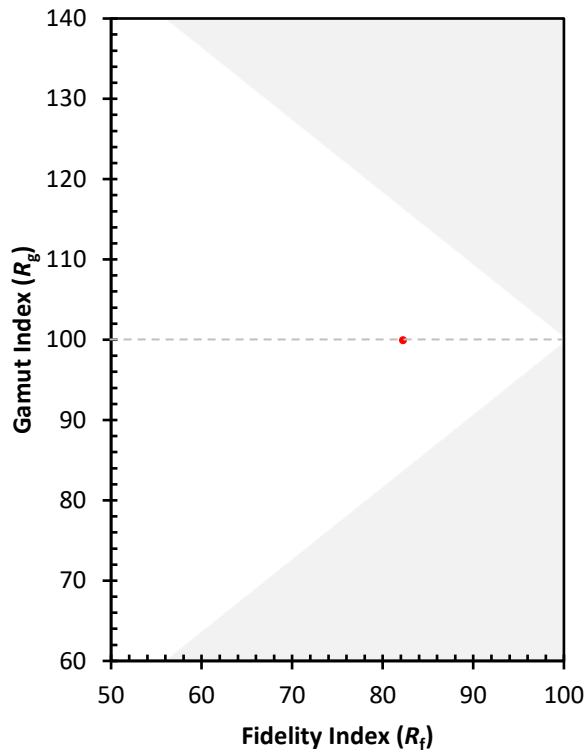
CES01 = 86	CES26 = 76	CES51 = 89	CES76 = 75
CES02 = 63	CES27 = 89	CES52 = 91	CES77 = 87
CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 78	CES82 = 95
CES08 = 42	CES33 = 71	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 84	CES59 = 93	CES84 = 94
CES10 = 77	CES35 = 92	CES60 = 96	CES85 = 83
CES11 = 59	CES36 = 92	CES61 = 94	CES86 = 69
CES12 = 66	CES37 = 89	CES62 = 84	CES87 = 85
CES13 = 44	CES38 = 75	CES63 = 79	CES88 = 84
CES14 = 74	CES39 = 93	CES64 = 85	CES89 = 74
CES15 = 72	CES40 = 89	CES65 = 79	CES90 = 81
CES16 = 48	CES41 = 85	CES66 = 83	CES91 = 96
CES17 = 50	CES42 = 88	CES67 = 82	CES92 = 72
CES18 = 57	CES43 = 81	CES68 = 86	CES93 = 84
CES19 = 73	CES44 = 98	CES69 = 92	CES94 = 63
CES20 = 67	CES45 = 87	CES70 = 81	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 81	CES96 = 85
CES22 = 79	CES47 = 76	CES72 = 93	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 75	CES98 = 82
CES24 = 91	CES49 = 81	CES74 = 91	CES99 = 76
CES25 = 72	CES50 = 88	CES75 = 79	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)