

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: P991292

Luminaire Tested: **GPC-SA2D-830-U-RBC**

Issue Date: 07/03/2025

Test Information

Test Method: LM-79-08
Report Number: P991292
Test Lab: INNOVATION CENTER(G1)
Issue Date: 07/03/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-SA2D-830-U-RBC
Description: GALLEON PEDESTRAIAN COMPANION 1200mA 2xLight Square PACKAGE 80CRI
3000K FIXTURE w/ RIGHT CORNER BACKLIGHT CONTROL
Light Source: (28) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8635.5 lumens
Efficiency: N/A
Efficacy: 79.8 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



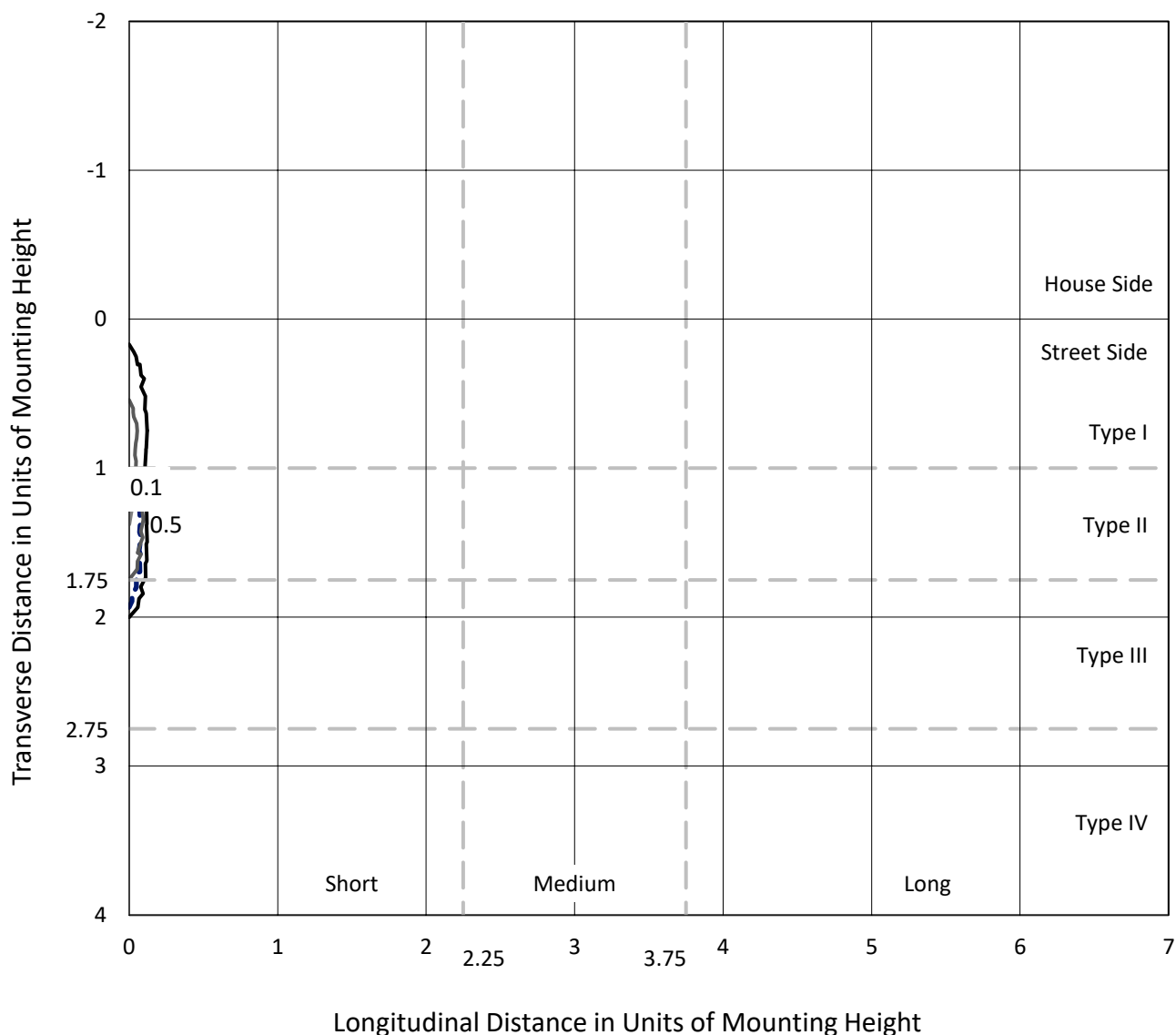
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

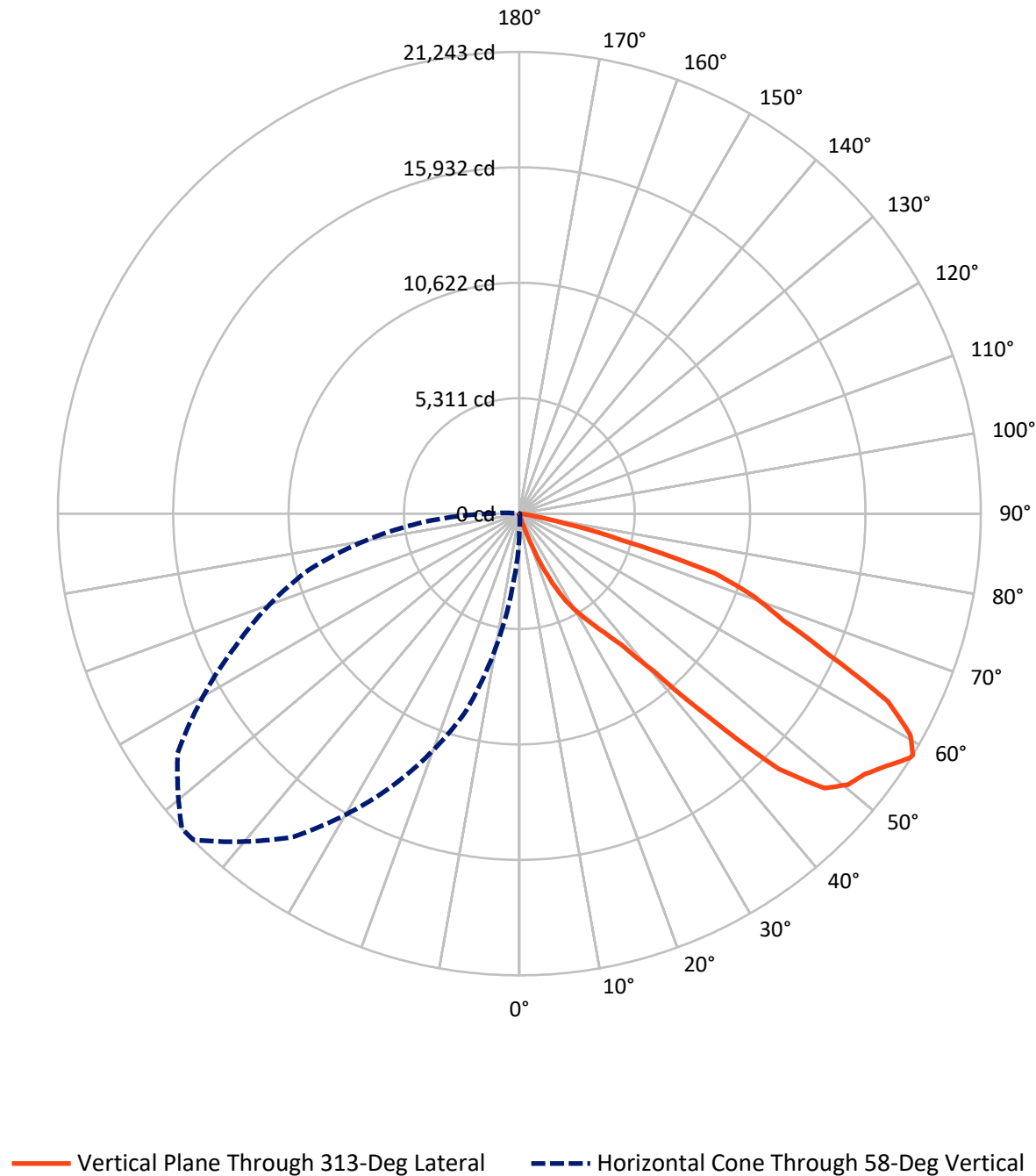


Based on 20 foot mounting height. Maximum calculated value = 0.6 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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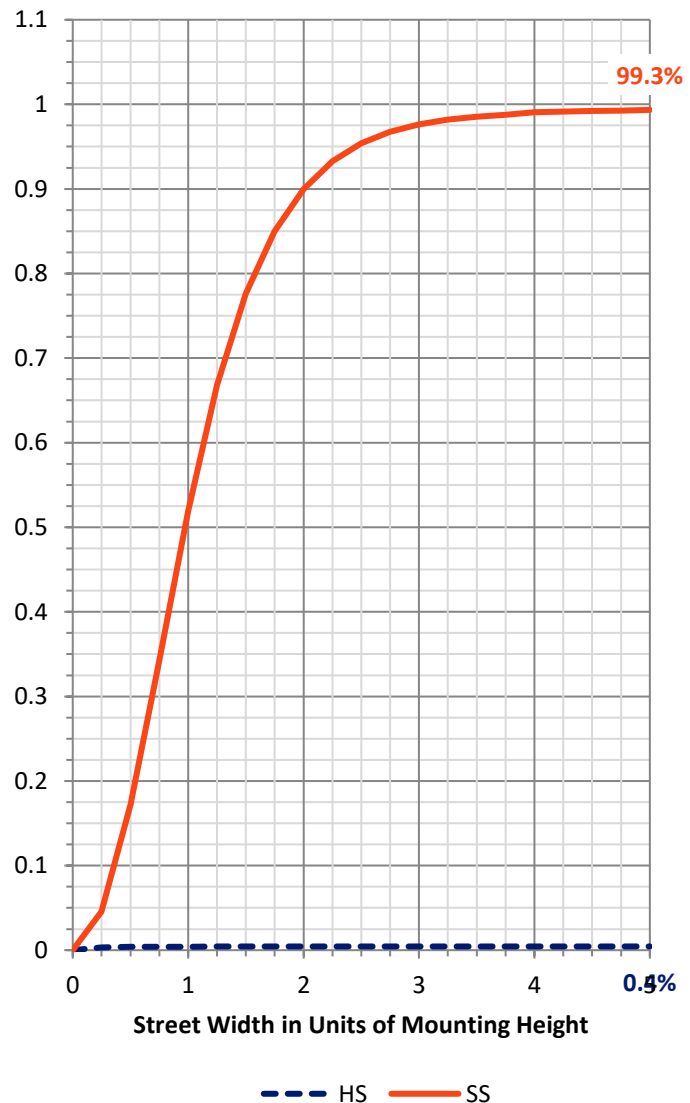
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	38.6	0.0	38.6
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	8596.9	0.0	8596.9
	% Fixture	99.6	0.0	99.6
Total	Lumens	8635.5	0.0	8635.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.3	0.0
10°-20°	15.0	0.2
20°-30°	218.1	2.5
30°-40°	626.9	7.3
40°-50°	1785.9	20.7
50°-60°	2809.1	32.5
60°-70°	2395.6	27.7
70°-80°	764.2	8.8
80°-90°	19.5	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°	8635.5	100.0
0°-180°	8635.5	100.0



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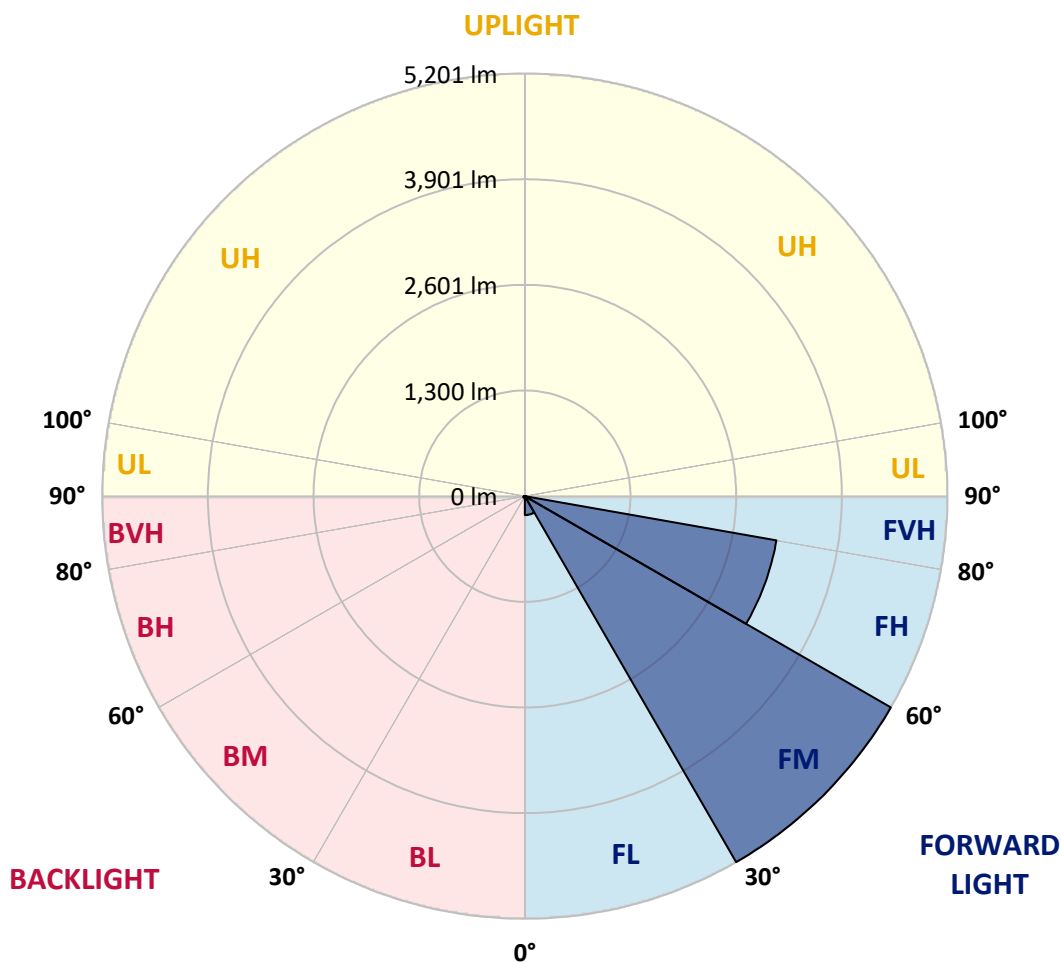
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	232.8	2.7			
FM	(30°-60°)	5201.3	60.2			
FH	(60°-80°)	3144.4	36.4			G2/5000
FVH	(80°-90°)	18.4	0.2			G1/100
BL	(0°-30°)	1.5	0.0	B0/110		
BM	(30°-60°)	20.7	0.2	B0/220		
BH	(60°-80°)	15.3	0.2	B0/110		G0/110
BVH	(80°-90°)	1.1	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°	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
2.5°	31.1	32.8	34.6	32.8	29.4	22.5	22.5	17.3	12.1	6.9	5.2
5°	34.6	34.6	34.6	32.8	29.4	22.5	20.7	15.6	10.4	6.9	3.5
7.5°	38.0	38.0	36.3	32.8	27.7	22.5	20.7	15.6	10.4	5.2	0.0
10°	41.5	41.5	38.0	34.6	27.7	20.7	19.0	13.8	8.6	3.5	0.0
12.5°	46.7	44.9	39.7	34.6	27.7	19.0	19.0	13.8	6.9	1.7	0.0
15°	53.6	48.4	41.5	34.6	25.9	19.0	17.3	12.1	5.2	0.0	0.0
17.5°	58.8	53.6	43.2	32.8	24.2	17.3	15.6	10.4	5.2	0.0	0.0
20°	63.9	55.3	43.2	32.8	24.2	15.6	13.8	8.6	1.7	0.0	0.0
22.5°	72.6	58.8	43.2	32.8	22.5	13.8	12.1	6.9	0.0	0.0	0.0
25°	89.9	62.2	43.2	31.1	20.7	12.1	10.4	3.5	0.0	0.0	0.0
27.5°	110.6	67.4	43.2	29.4	19.0	10.4	8.6	1.7	0.0	0.0	0.0
30°	133.1	72.6	43.2	29.4	17.3	8.6	6.9	0.0	0.0	0.0	0.0
32.5°	157.3	79.5	43.2	27.7	15.6	6.9	5.2	0.0	0.0	0.0	0.0
35°	202.2	89.9	43.2	27.7	13.8	5.2	3.5	0.0	0.0	0.0	0.0
37.5°	222.9	103.7	43.2	25.9	13.8	3.5	1.7	0.0	0.0	0.0	0.0
40°	231.6	100.2	41.5	25.9	12.1	1.7	0.0	0.0	0.0	0.0	0.0
42.5°	250.6	93.3	43.2	24.2	12.1	1.7	0.0	0.0	0.0	0.0	0.0
45°	305.9	93.3	46.7	24.2	10.4	3.5	0.0	0.0	0.0	0.0	0.0
47.5°	530.6	96.8	44.9	24.2	10.4	3.5	0.0	0.0	0.0	0.0	0.0
50°	872.8	114.1	43.2	25.9	12.1	1.7	0.0	0.0	0.0	0.0	0.0
52.5°	1012.7	138.3	43.2	27.7	15.6	0.0	0.0	0.0	0.0	0.0	0.0
55°	971.3	169.4	43.2	29.4	19.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	883.1	160.7	46.7	34.6	24.2	0.0	0.0	0.0	0.0	0.0	0.0
58°	850.3	160.7	46.7	34.6	24.2	0.0	0.0	0.0	0.0	0.0	0.0
60°	667.1	164.2	53.6	38.0	25.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	496.0	167.6	60.5	43.2	25.9	1.7	0.0	0.0	0.0	0.0	0.0
65°	368.1	174.6	63.9	50.1	24.2	3.5	0.0	0.0	0.0	0.0	0.0
67.5°	293.8	179.7	69.1	55.3	27.7	6.9	1.7	0.0	0.0	0.0	0.0
70°	252.3	172.8	74.3	57.0	25.9	10.4	5.2	0.0	0.0	0.0	0.0
72.5°	224.7	162.5	84.7	55.3	27.7	10.4	5.2	0.0	0.0	0.0	0.0
75°	202.2	148.6	96.8	53.6	27.7	10.4	6.9	0.0	0.0	0.0	0.0
77.5°	152.1	129.6	95.1	51.8	25.9	10.4	6.9	0.0	0.0	0.0	0.0
80°	76.0	86.4	83.0	46.7	20.7	8.6	6.9	1.7	0.0	0.0	0.0
82.5°	31.1	32.8	41.5	34.6	17.3	6.9	6.9	1.7	0.0	0.0	0.0
85°	3.5	6.9	12.1	13.8	12.1	6.9	6.9	1.7	0.0	0.0	0.0
87.5°	0.0	1.7	6.9	10.4	8.6	5.2	3.5	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°	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
2.5°	3.5	3.5	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
5°	1.7	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°	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
2.5°	1.7	3.5	3.5	3.5	5.2	5.2	6.9	8.6	8.6	8.6	10.4
5°	0.0	0.0	1.7	1.7	3.5	5.2	6.9	10.4	12.1	12.1	13.8
7.5°	0.0	0.0	0.0	1.7	3.5	5.2	6.9	10.4	13.8	15.6	17.3
10°	0.0	0.0	0.0	0.0	1.7	3.5	6.9	12.1	17.3	20.7	24.2
12.5°	0.0	0.0	0.0	0.0	0.0	1.7	6.9	13.8	20.7	25.9	29.4
15°	0.0	0.0	0.0	0.0	0.0	1.7	6.9	13.8	25.9	31.1	38.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.9	15.6	29.4	38.0	51.8
20°	0.0	0.0	0.0	0.0	0.0	0.0	5.2	15.6	32.8	46.7	77.8
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.2	15.6	36.3	60.5	143.4
25°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	15.6	41.5	89.9	238.5
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	17.3	50.1	126.2	349.1
30°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	17.3	62.2	171.1	487.4
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	17.3	72.6	216.0	663.6
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.6	86.4	286.9	833.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.6	107.1	316.3	976.4
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.8	102.0	343.9	1140.6
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.6	93.3	383.7	1398.1
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.6	93.3	508.1	1968.4
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.8	114.1	791.5	3008.8
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.4	146.9	1214.9	4284.3
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	178.0	1494.9	5024.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	214.3	1496.6	4999.8
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.4	238.5	1339.4	4512.4
58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.1	236.8	1296.2	4377.6
60°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	17.3	207.4	1125.1	3821.1
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.9	27.7	181.5	807.1	3167.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	13.8	31.1	165.9	585.9	2378.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	17.3	36.3	159.0	414.8	1653.9
70°	0.0	0.0	0.0	0.0	0.0	0.0	20.7	41.5	146.9	297.3	1088.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	20.7	51.8	138.3	233.3	656.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	20.7	65.7	121.0	190.1	352.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	20.7	70.9	100.2	138.3	214.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	19.0	63.9	72.6	60.5	72.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	10.4	38.0	15.6	15.6	24.2
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°	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
2.5°	12.1	12.1	12.1	12.1	13.8	13.8	19.0	24.2	29.4	31.1
5°	15.6	17.3	19.0	19.0	19.0	20.7	24.2	27.7	32.8	34.6
7.5°	22.5	24.2	27.7	27.7	27.7	29.4	31.1	34.6	38.0	38.0
10°	29.4	34.6	36.3	38.0	39.7	39.7	39.7	41.5	43.2	41.5
12.5°	39.7	46.7	55.3	57.0	57.0	57.0	55.3	51.8	48.4	46.7
15°	55.3	76.0	103.7	114.1	108.9	96.8	84.7	65.7	57.0	53.6
17.5°	102.0	207.4	376.8	416.5	407.9	350.8	205.7	100.2	67.4	58.8
20°	274.8	670.6	1106.1	1211.5	1266.8	1049.0	606.6	233.3	83.0	63.9
22.5°	592.8	1392.9	2158.6	2431.6	2448.9	1970.2	1180.4	473.5	119.2	72.6
25°	954.0	2227.7	3271.5	3535.9	3541.1	3036.5	1887.2	767.3	181.5	89.9
27.5°	1462.1	3122.9	4291.2	4510.7	4507.2	3995.7	2727.1	1171.7	254.0	110.6
30°	1982.3	3821.1	4963.5	5236.5	5262.4	4650.7	3428.8	1650.5	331.8	133.1
32.5°	2497.3	4337.8	5577.0	5939.9	5917.4	5229.6	3917.9	2042.8	464.9	157.3
35°	2903.4	4778.5	6256.2	6702.1	6719.3	5865.6	4351.7	2423.0	579.0	202.2
37.5°	3250.8	5347.1	7160.0	7675.0	7697.5	6657.1	4806.2	2796.3	677.5	222.9
40°	3679.4	6280.4	8656.7	9531.2	9534.6	8133.0	5623.6	3214.5	810.5	231.6
42.5°	4642.0	8279.9	11580.8	12837.3	12946.1	11195.4	7481.5	4121.8	1019.7	250.6
45°	6567.3	10915.5	15310.3	16756.9	16895.1	15006.2	10666.6	6216.4	1479.4	305.9
47.5°	8857.2	13207.1	17477.5	18870.5	18962.1	16808.7	12799.2	8639.4	2518.0	530.6
50°	10265.7	14055.7	18274.3	19603.3	19618.8	17401.5	13468.1	9897.5	3587.8	872.8
52.5°	10702.9	14164.5	18305.4	19912.6	19957.5	17332.4	13559.7	10151.6	4033.7	1012.7
55°	10524.9	14100.6	18633.7	20503.7	20552.1	17614.1	13497.4	9873.4	3824.6	971.3
57.5°	10118.8	14349.5	19172.9	21205.3	21205.3	18134.3	13727.3	9406.7	3313.0	883.1
58°	10058.3	14411.7	19202.3	21243.3	21227.8	18167.1	13822.3	9339.3	3200.7	850.3
60°	9975.3	14603.5	18984.6	20681.7	20636.7	17935.5	13995.2	9278.8	2656.3	667.1
62.5°	9854.3	14171.4	17398.0	19029.5	18913.7	16312.7	13499.2	8924.6	1982.3	496.0
65°	9233.9	12576.3	14503.3	15633.5	15597.2	13419.7	11618.9	7994.8	1427.5	368.1
67.5°	7783.9	9845.7	11715.6	13077.5	13086.1	10955.2	9087.0	6389.2	971.3	293.8
70°	5475.0	7262.0	9959.8	11475.4	11544.5	9189.0	6731.4	4258.3	641.2	252.3
72.5°	3269.8	5485.4	8281.7	9432.7	9396.4	7624.9	4994.6	2538.8	390.6	224.7
75°	1584.8	3278.4	4185.8	4854.6	4826.9	3814.2	2661.5	1244.3	285.2	202.2
77.5°	430.3	1007.6	1621.1	2108.4	2165.5	1527.8	872.8	333.5	178.0	152.1
80°	145.2	311.1	528.8	718.9	738.0	660.2	328.4	117.5	77.8	76.0
82.5°	55.3	76.0	96.8	86.4	86.4	89.9	70.9	50.1	36.3	31.1
85°	0.0	0.0	1.7	3.5	3.5	5.2	5.2	5.2	3.5	3.5
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: SP1-2407-184-9

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-830-U-5WQ

Data in this report applies to families of products including GSS-SB1A-830-U-5WQ

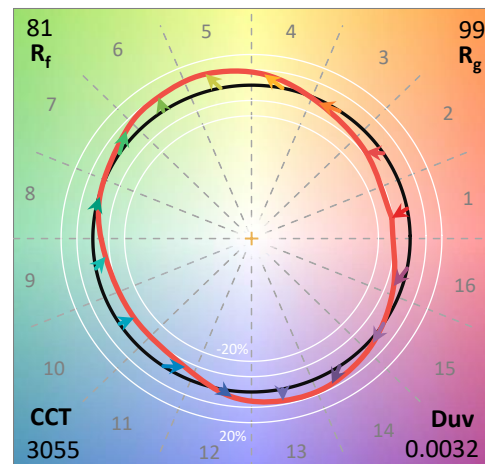
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-9
 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-830-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3055
 CIE u' : 0.2475
 CIE v' : 0.5247
 Duv: 0.0032
 CIE x: 0.4377
 CIE y: 0.4124
 CIE z: 0.1499
 Peak Wavelength (nm): 604
 Dominant Wavelength (nm): 581
 Purity: 55.16339
 R_f: 81.5
 R_g: 99.2

CRI (Ra): 80.9
 R1: 79.5
 R2: 85.6
 R3: 92.1
 R4: 82.4
 R5: 78.9
 R6: 81.7
 R7: 85.1
 R8: 61.9
 R9: 6.8
 R10: 67.1
 R11: 82.5
 R12: 63.4
 R13: 80.2
 R14: 95.1
 R15: 71.7



Test Conditions

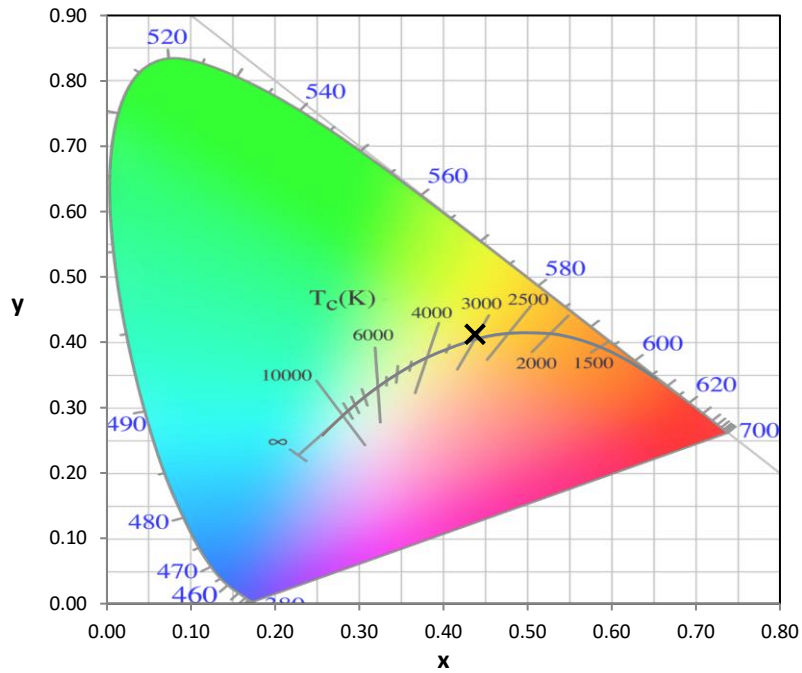
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-9

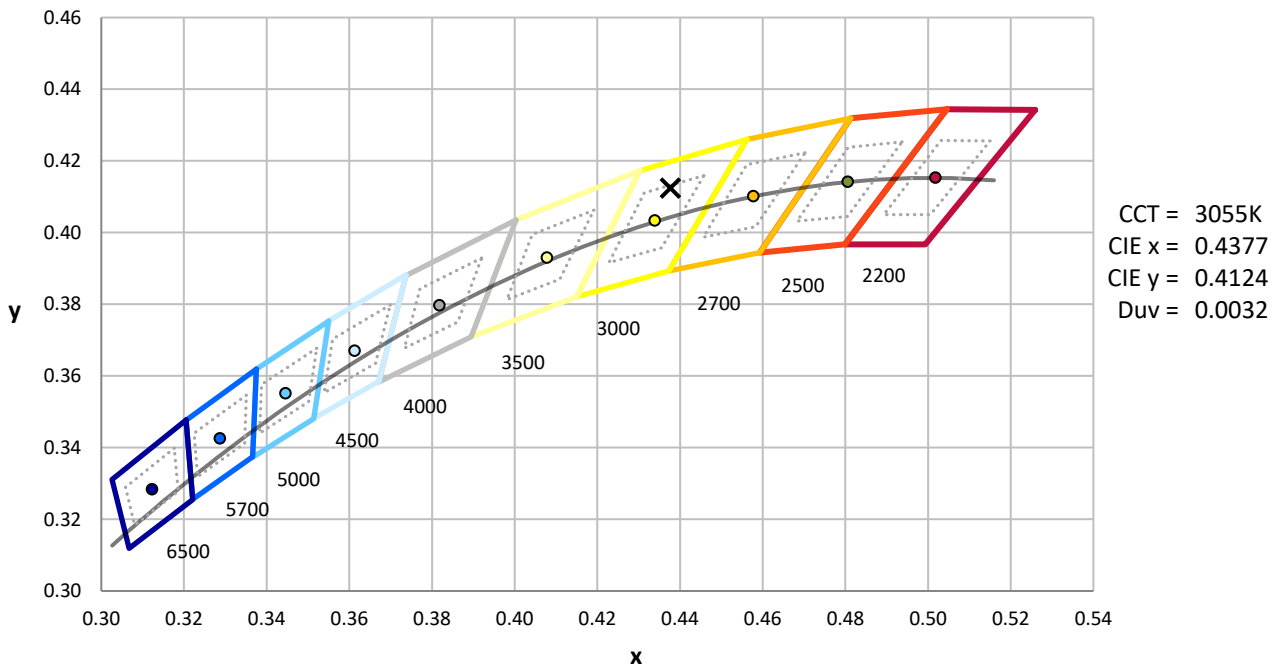
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram

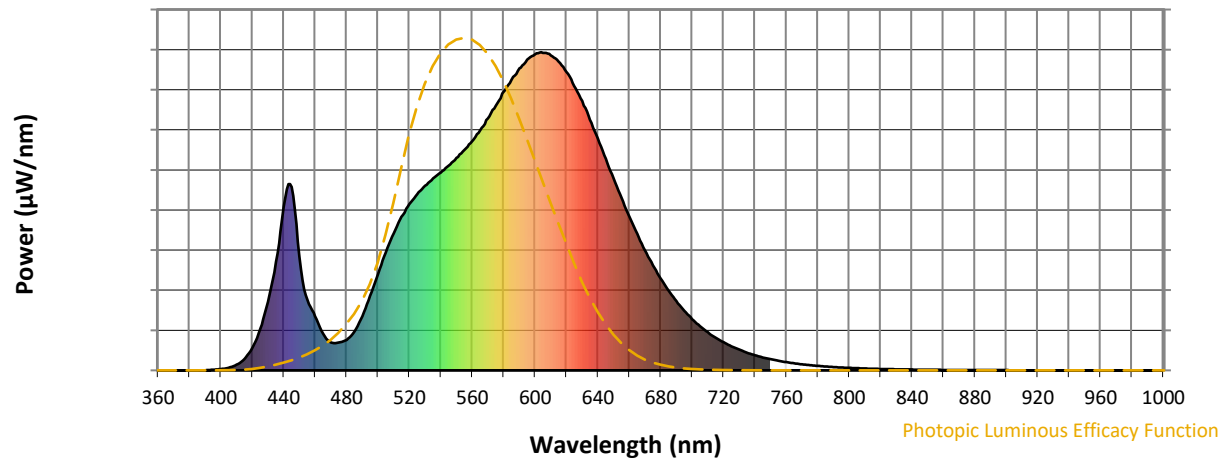


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



REPORT NUMBER: SP1-2407-184-9

Photopic Flux vs. Wavelength

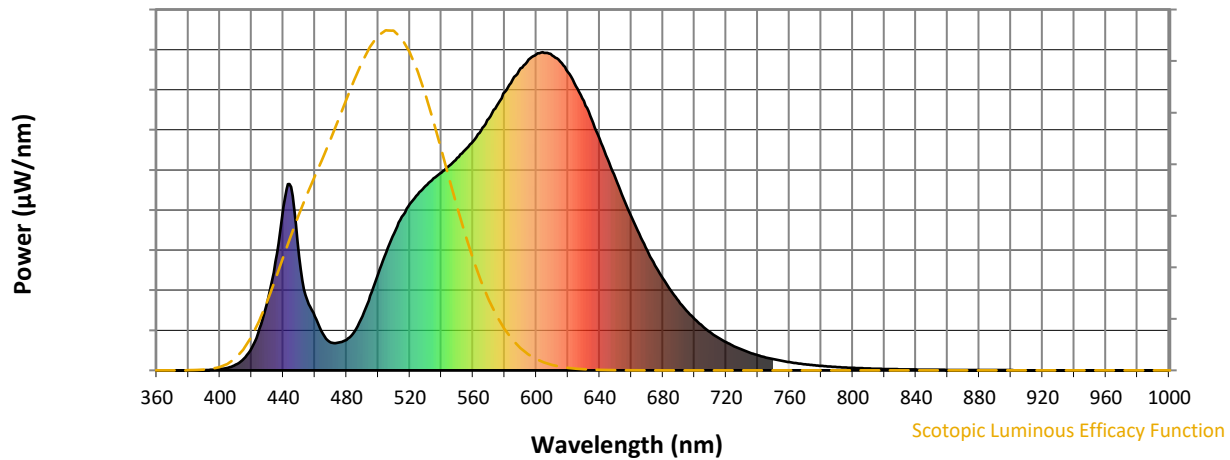


Photopic Lumens: NR

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

Scotopic Flux vs. Wavelength



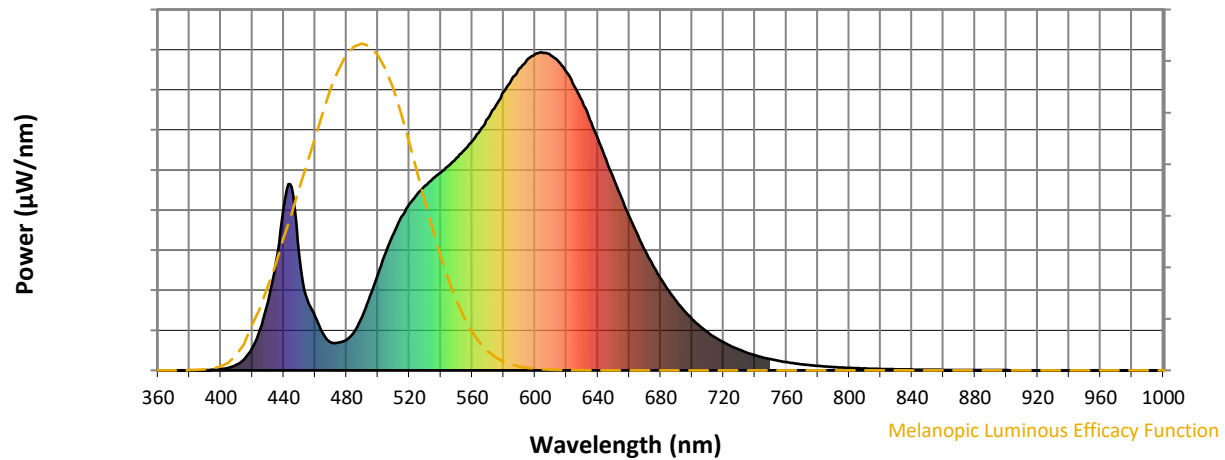
Scotopic Lumens: NR

S/P: 1.28

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.33

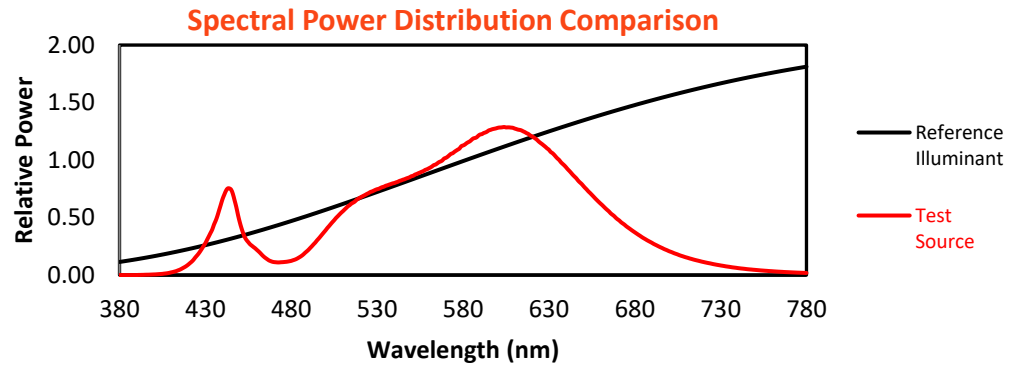
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

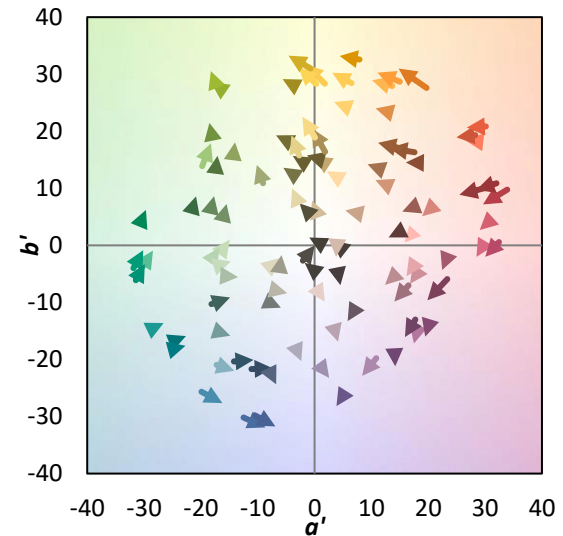
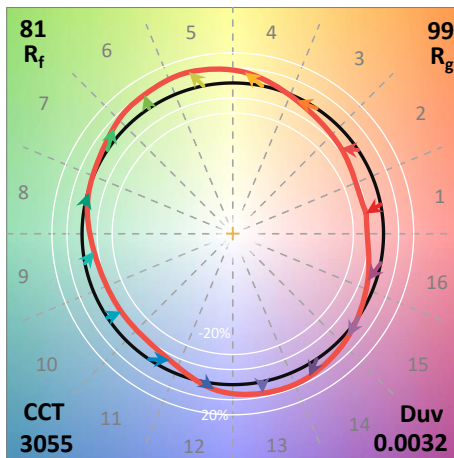
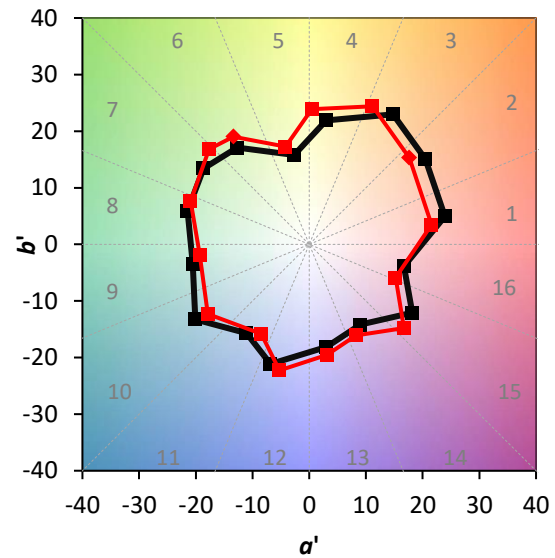
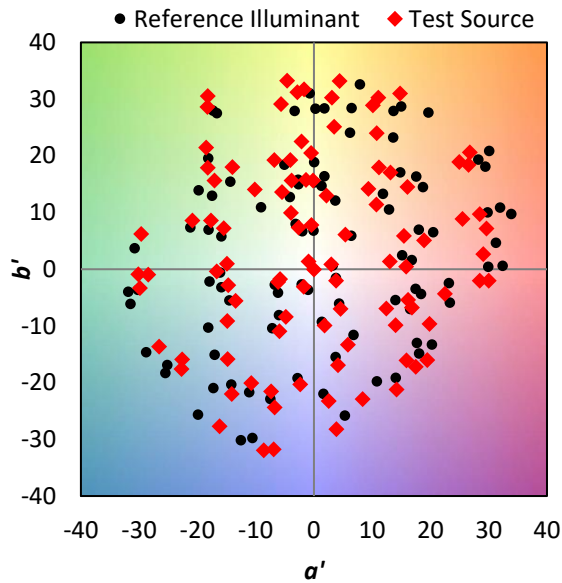
TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 80.9$
 $R_9 = 6.8$

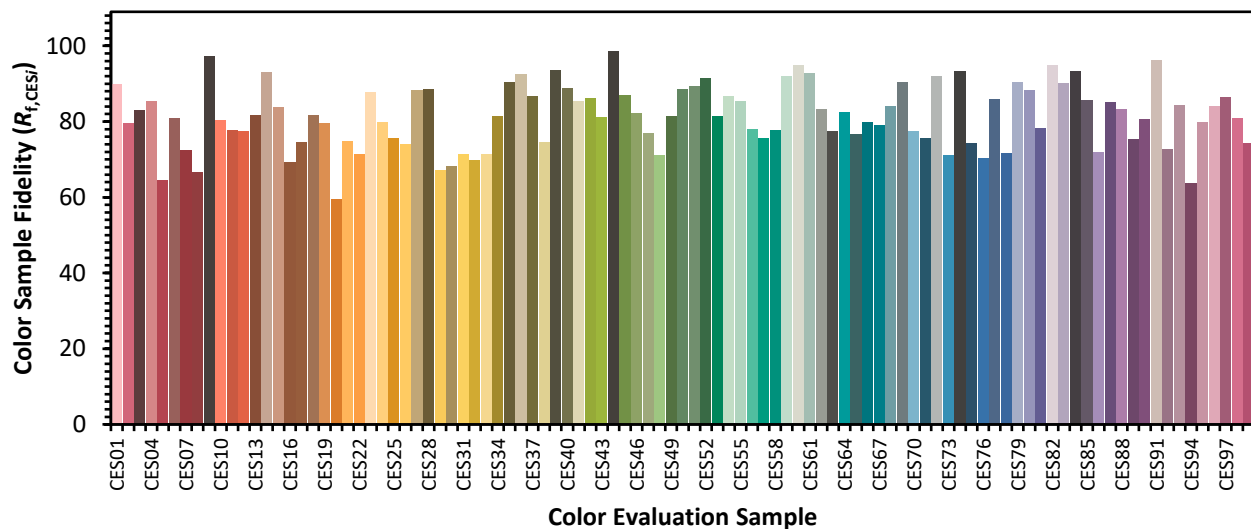


Color Vector Graphics

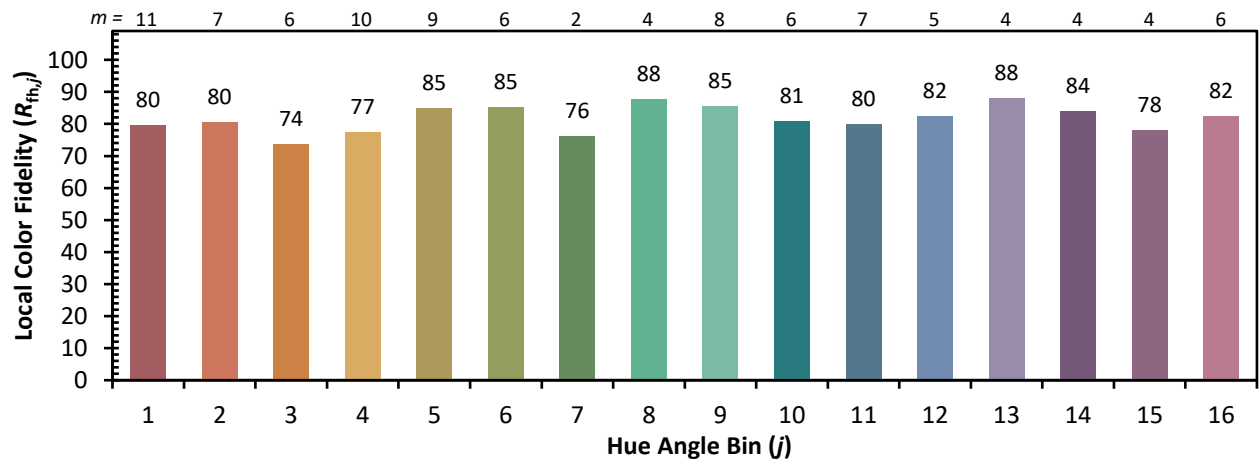
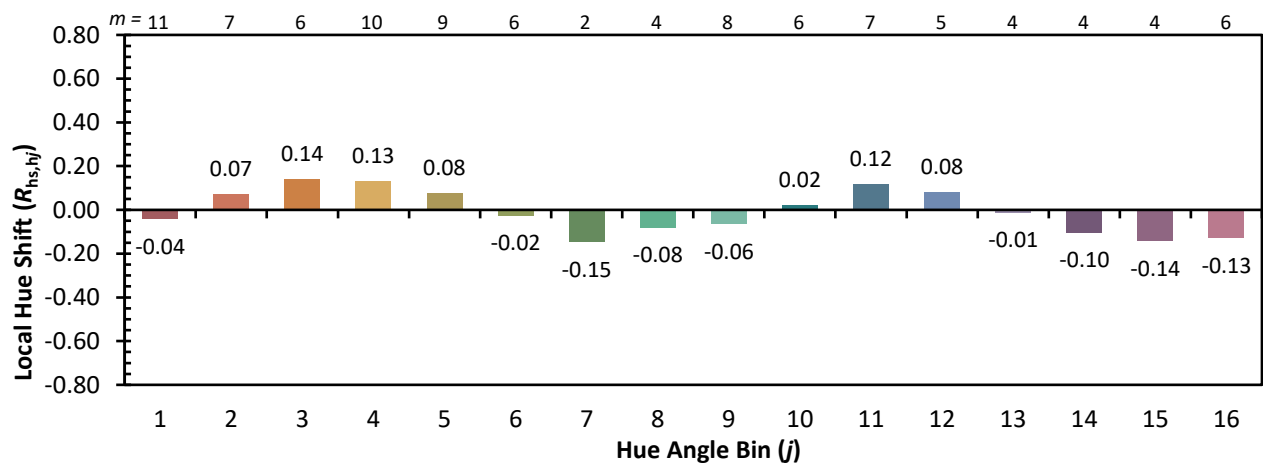
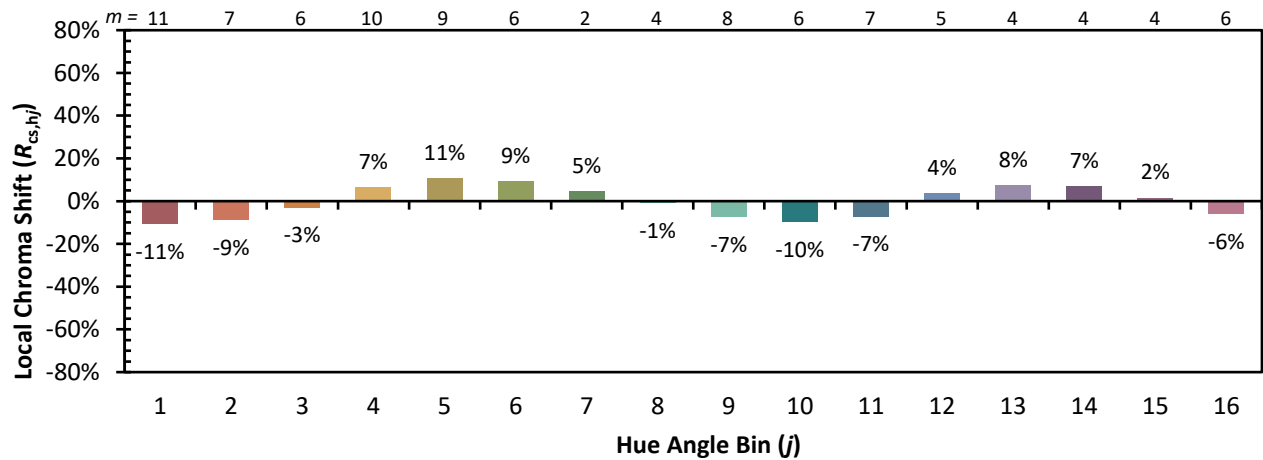


Individual Sample Fidelity Index ($R_{f,i}$)

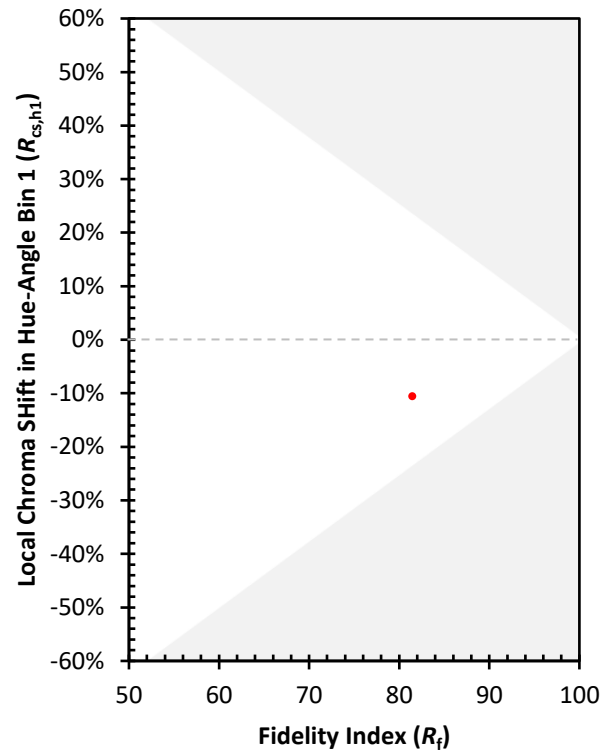
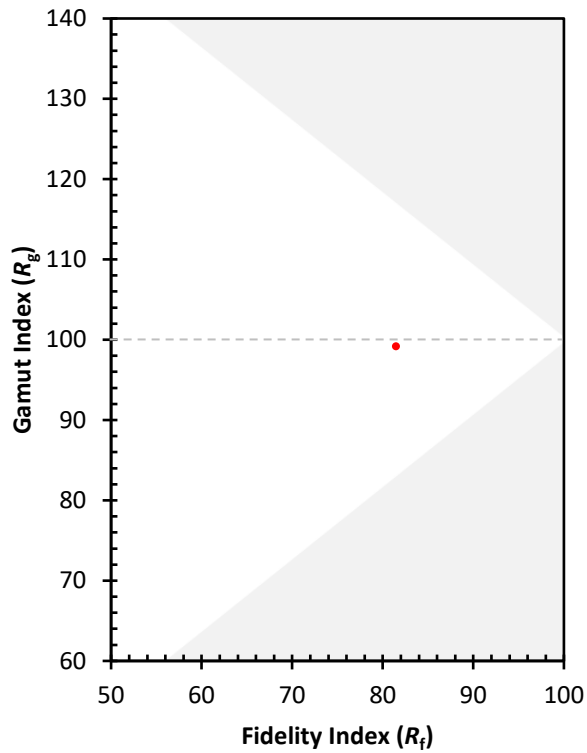
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 93
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 90	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 77	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)