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: P991254

Luminaire Tested: **GPC-SA2B-735-U-RBC**

Issue Date: 07/03/2025

Report Generated By 670245763

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P991254
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	07/03/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GPC-SA2B-735-U-RBC
Description:	GALLEON PEDESTRAIAN COMPANION 800mA 2xLight Square PACKAGE 70CRI 3500K FIXTURE w/ RIGHT CORNER BACKLIGHT CONTROL
Light Source:	(28) 3500K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7311.1 lumens
Efficiency:	N/A
Efficacy:	101.3 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):	72.2
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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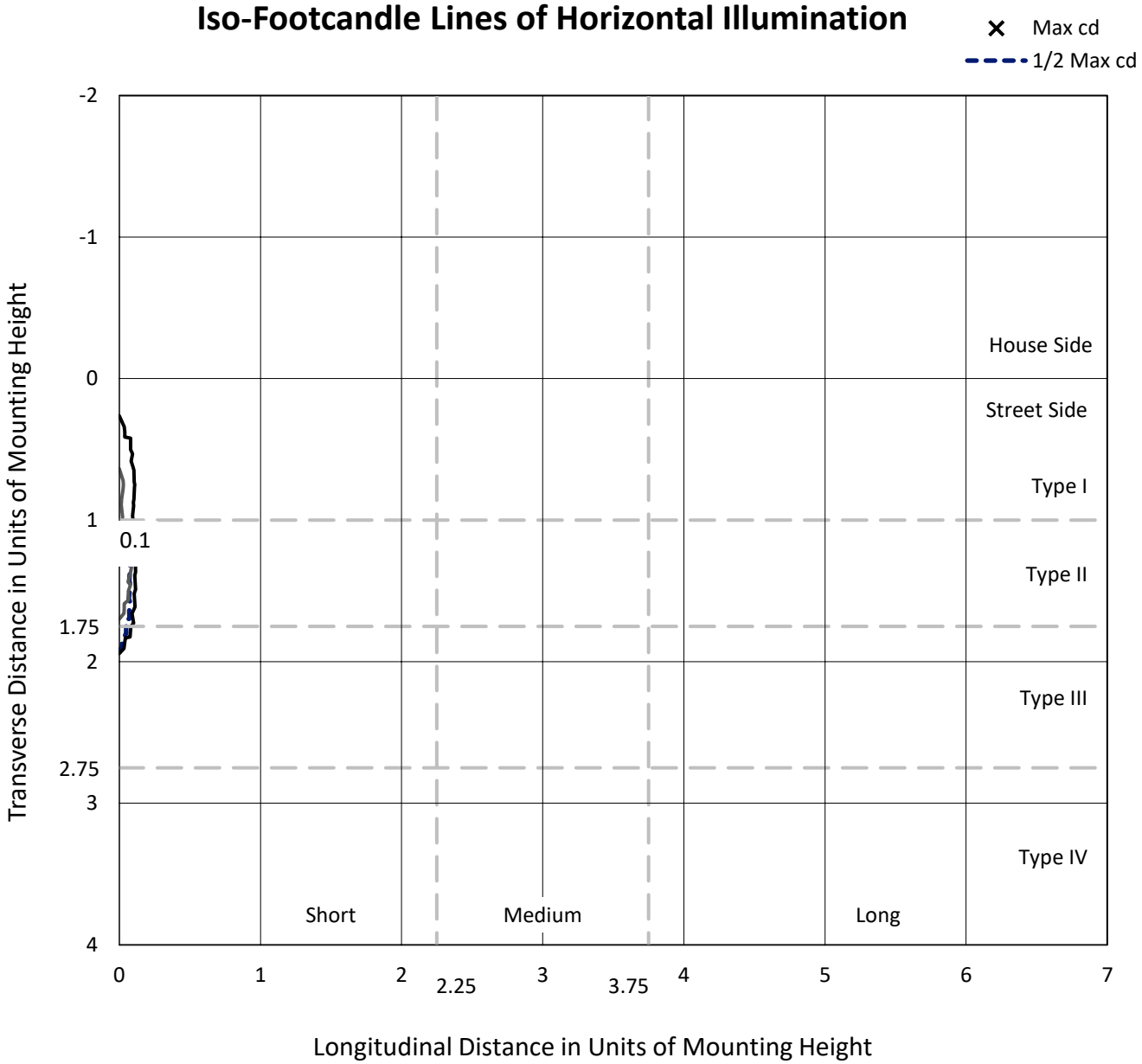
Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 0.5 fc
Type III - Short - N/A

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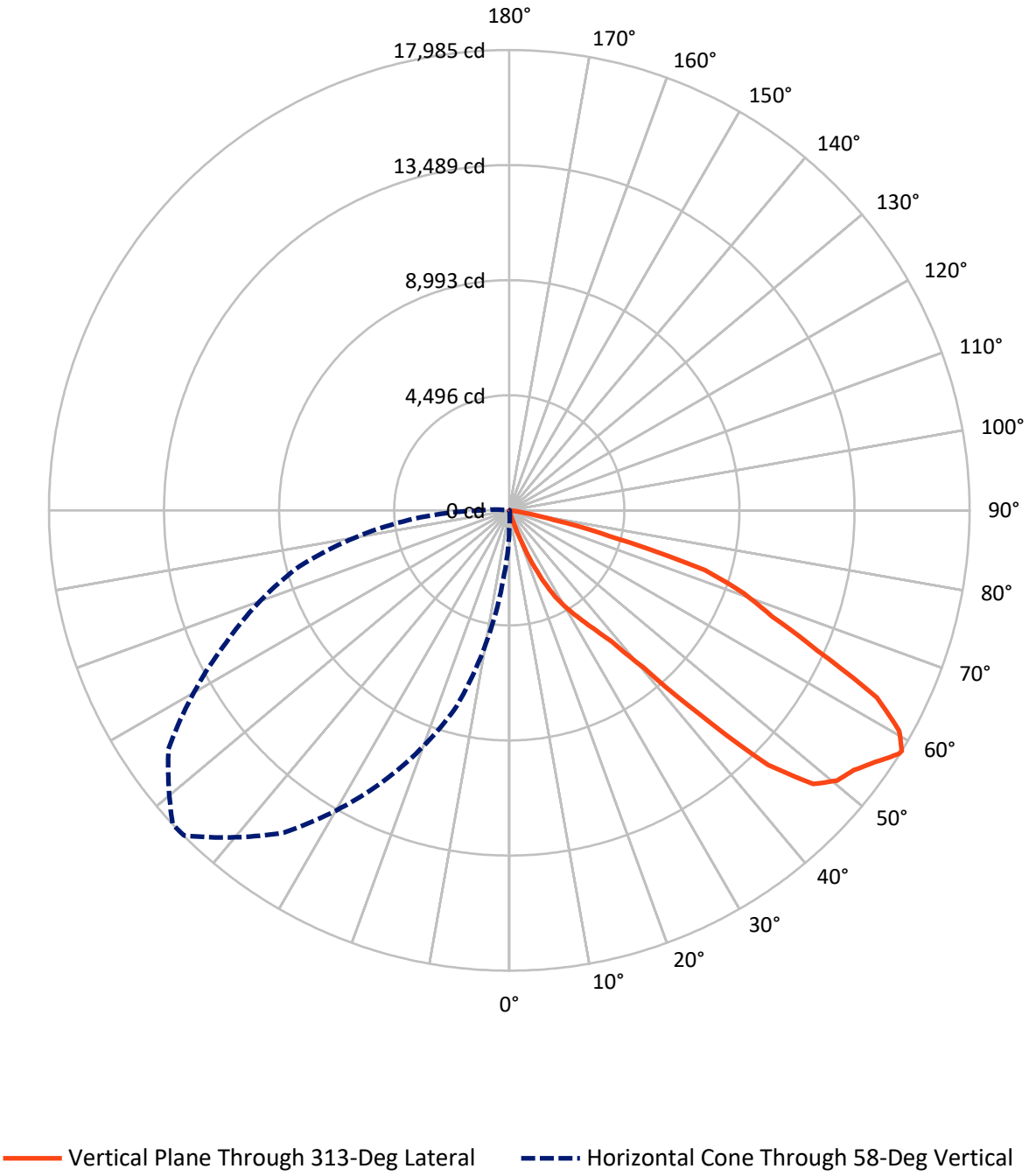
Luminous Intensity Polar Plot



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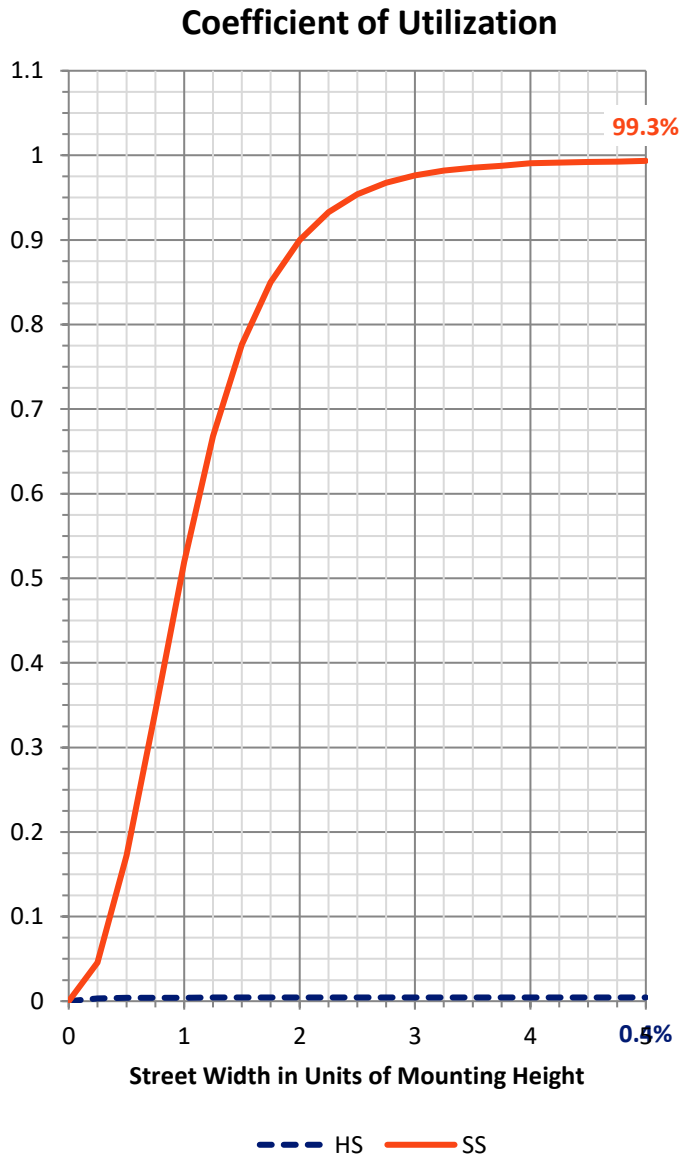
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	32.7	0.0	32.7
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	7278.4	0.0	7278.4
	% Fixture	99.6	0.0	99.6
Total	Lumens	7311.1	0.0	7311.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.1	0.0
10°-20°	12.7	0.2
20°-30°	184.6	2.5
30°-40°	530.8	7.3
40°-50°	1512.0	20.7
50°-60°	2378.3	32.5
60°-70°	2028.2	27.7
70°-80°	647.0	8.8
80°-90°	16.5	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°	7311.1	100.0
0°-180°	7311.1	100.0



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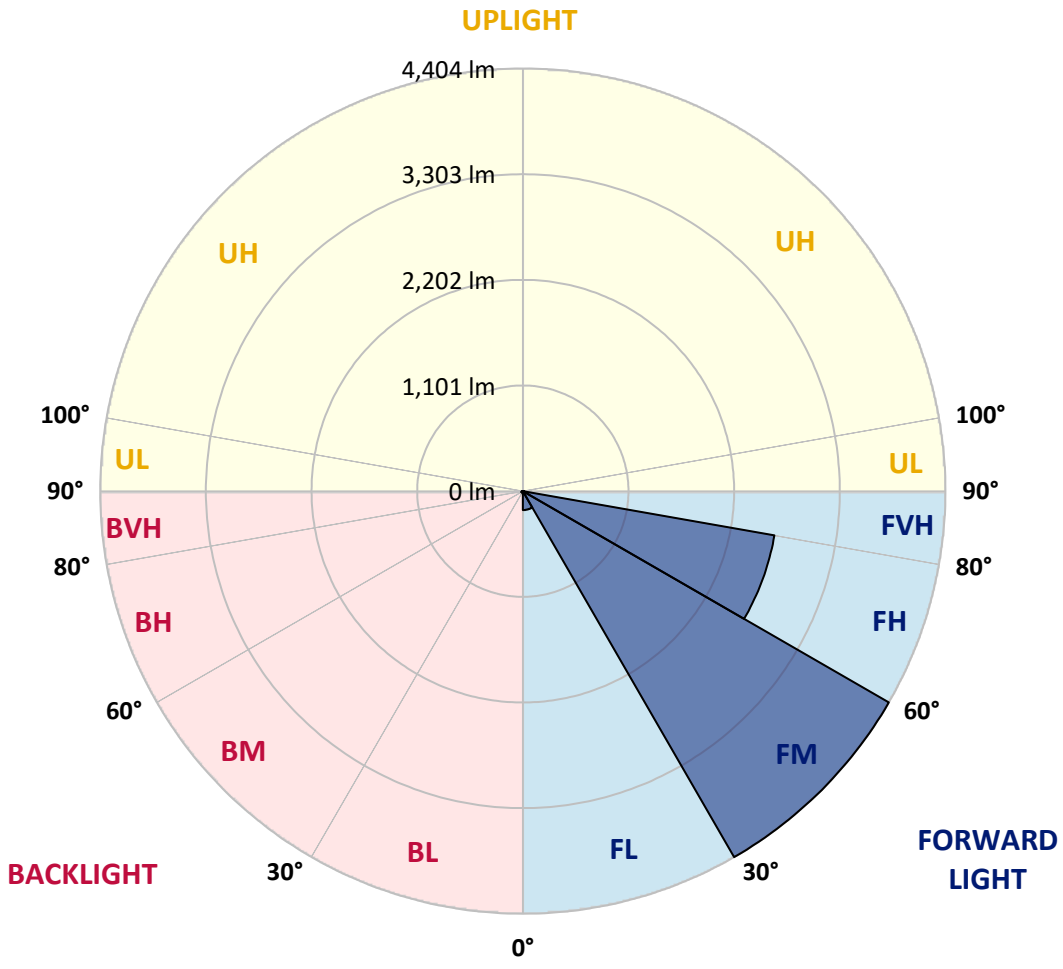
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	197.1	2.7			
FM	(30°-60°)	4403.6	60.2			
FH	(60°-80°)	2662.2	36.4			G2/5000
FVH	(80°-90°)	15.6	0.2			G1/100
BL	(0°-30°)	1.3	0.0	B0/110		
BM	(30°-60°)	17.5	0.2	B0/220		
BH	(60°-80°)	13.0	0.2	B0/110		G0/110
BVH	(80°-90°)	0.9	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-G2
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
2.5°	26.3	27.8	29.3	27.8	24.9	19.0	19.0	14.6	10.2	5.9	4.4
5°	29.3	29.3	29.3	27.8	24.9	19.0	17.6	13.2	8.8	5.9	2.9
7.5°	32.2	32.2	30.7	27.8	23.4	19.0	17.6	13.2	8.8	4.4	0.0
10°	35.1	35.1	32.2	29.3	23.4	17.6	16.1	11.7	7.3	2.9	0.0
12.5°	39.5	38.0	33.7	29.3	23.4	16.1	16.1	11.7	5.9	1.5	0.0
15°	45.4	41.0	35.1	29.3	21.9	16.1	14.6	10.2	4.4	0.0	0.0
17.5°	49.7	45.4	36.6	27.8	20.5	14.6	13.2	8.8	4.4	0.0	0.0
20°	54.1	46.8	36.6	27.8	20.5	13.2	11.7	7.3	1.5	0.0	0.0
22.5°	61.5	49.7	36.6	27.8	19.0	11.7	10.2	5.9	0.0	0.0	0.0
25°	76.1	52.7	36.6	26.3	17.6	10.2	8.8	2.9	0.0	0.0	0.0
27.5°	93.6	57.1	36.6	24.9	16.1	8.8	7.3	1.5	0.0	0.0	0.0
30°	112.7	61.5	36.6	24.9	14.6	7.3	5.9	0.0	0.0	0.0	0.0
32.5°	133.1	67.3	36.6	23.4	13.2	5.9	4.4	0.0	0.0	0.0	0.0
35°	171.2	76.1	36.6	23.4	11.7	4.4	2.9	0.0	0.0	0.0	0.0
37.5°	188.8	87.8	36.6	21.9	11.7	2.9	1.5	0.0	0.0	0.0	0.0
40°	196.1	84.9	35.1	21.9	10.2	1.5	0.0	0.0	0.0	0.0	0.0
42.5°	212.2	79.0	36.6	20.5	10.2	1.5	0.0	0.0	0.0	0.0	0.0
45°	259.0	79.0	39.5	20.5	8.8	2.9	0.0	0.0	0.0	0.0	0.0
47.5°	449.2	81.9	38.0	20.5	8.8	2.9	0.0	0.0	0.0	0.0	0.0
50°	738.9	96.6	36.6	21.9	10.2	1.5	0.0	0.0	0.0	0.0	0.0
52.5°	857.4	117.1	36.6	23.4	13.2	0.0	0.0	0.0	0.0	0.0	0.0
55°	822.3	143.4	36.6	24.9	16.1	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	747.7	136.1	39.5	29.3	20.5	0.0	0.0	0.0	0.0	0.0	0.0
58°	*719.9*	*136.1*	*39.5*	*29.3*	*20.5*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*
60°	564.8	139.0	45.4	32.2	21.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	419.9	141.9	51.2	36.6	21.9	1.5	0.0	0.0	0.0	0.0	0.0
65°	311.7	147.8	54.1	42.4	20.5	2.9	0.0	0.0	0.0	0.0	0.0
67.5°	248.7	152.2	58.5	46.8	23.4	5.9	1.5	0.0	0.0	0.0	0.0
70°	213.6	146.3	62.9	48.3	21.9	8.8	4.4	0.0	0.0	0.0	0.0
72.5°	190.2	137.5	71.7	46.8	23.4	8.8	4.4	0.0	0.0	0.0	0.0
75°	171.2	125.8	81.9	45.4	23.4	8.8	5.9	0.0	0.0	0.0	0.0
77.5°	128.8	109.7	80.5	43.9	21.9	8.8	5.9	0.0	0.0	0.0	0.0
80°	64.4	73.2	70.2	39.5	17.6	7.3	5.9	1.5	0.0	0.0	0.0
82.5°	26.3	27.8	35.1	29.3	14.6	5.9	5.9	1.5	0.0	0.0	0.0
85°	2.9	5.9	10.2	11.7	10.2	5.9	5.9	1.5	0.0	0.0	0.0
87.5°	0.0	1.5	5.9	8.8	7.3	4.4	2.9	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°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
2.5°	2.9	2.9	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
5°	1.5	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°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
2.5°	1.5	2.9	2.9	2.9	4.4	4.4	5.9	7.3	7.3	7.3	8.8
5°	0.0	0.0	1.5	1.5	2.9	4.4	5.9	8.8	10.2	10.2	11.7
7.5°	0.0	0.0	0.0	1.5	2.9	4.4	5.9	8.8	11.7	13.2	14.6
10°	0.0	0.0	0.0	0.0	1.5	2.9	5.9	10.2	14.6	17.6	20.5
12.5°	0.0	0.0	0.0	0.0	0.0	1.5	5.9	11.7	17.6	21.9	24.9
15°	0.0	0.0	0.0	0.0	0.0	1.5	5.9	11.7	21.9	26.3	32.2
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.9	13.2	24.9	32.2	43.9
20°	0.0	0.0	0.0	0.0	0.0	0.0	4.4	13.2	27.8	39.5	65.8
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.4	13.2	30.7	51.2	121.4
25°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	13.2	35.1	76.1	201.9
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	14.6	42.4	106.8	295.6
30°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	14.6	52.7	144.9	412.6
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	14.6	61.5	182.9	561.9
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.2	73.2	242.9	705.3
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.2	90.7	267.8	826.7
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.7	86.3	291.2	965.7
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.2	79.0	324.8	1183.7
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.2	79.0	430.2	1666.6
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.7	96.6	670.1	2547.4
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	124.4	1028.6	3627.2
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	150.7	1265.7	4253.5
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	181.4	1267.1	4233.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	201.9	1134.0	3820.4
58°	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*10.2*	*200.5*	*1097.4*	*3706.2*
60°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	14.6	175.6	952.5	3235.1
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.9	23.4	153.6	683.3	2682.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	11.7	26.3	140.5	496.0	2013.3
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	14.6	30.7	134.6	351.2	1400.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	17.6	35.1	124.4	251.7	921.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	17.6	43.9	117.1	197.5	556.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	17.6	55.6	102.4	161.0	298.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	17.6	60.0	84.9	117.1	181.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	16.1	54.1	61.5	51.2	61.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	8.8	32.2	13.2	13.2	20.5
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

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P991254
CATALOG NUMBER: GPC-SA2B-735-U-RBC

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	313°	315°	325°	335°	345°	355°	360°
0°	10.2	10.2	10.2	*10.2*	10.2	10.2	10.2	10.2	10.2	10.2
2.5°	10.2	10.2	10.2	*10.2*	11.7	11.7	16.1	20.5	24.9	26.3
5°	13.2	14.6	16.1	*16.1*	16.1	17.6	20.5	23.4	27.8	29.3
7.5°	19.0	20.5	23.4	*23.4*	23.4	24.9	26.3	29.3	32.2	32.2
10°	24.9	29.3	30.7	*32.2*	33.7	33.7	33.7	35.1	36.6	35.1
12.5°	33.7	39.5	46.8	*48.3*	48.3	48.3	46.8	43.9	41.0	39.5
15°	46.8	64.4	87.8	*96.6*	92.2	81.9	71.7	55.6	48.3	45.4
17.5°	86.3	175.6	319.0	*352.6*	345.3	297.0	174.1	84.9	57.1	49.7
20°	232.6	567.7	936.4	*1025.7*	1072.5	888.2	513.6	197.5	70.2	54.1
22.5°	501.9	1179.3	1827.5	*2058.7*	2073.3	1668.0	999.4	400.9	101.0	61.5
25°	807.7	1886.0	2769.8	*2993.7*	2998.1	2570.8	1597.8	649.7	153.6	76.1
27.5°	1237.9	2644.0	3633.1	*3818.9*	3816.0	3382.9	2308.9	992.0	215.1	93.6
30°	1678.3	3235.1	4202.3	*4433.4*	4455.4	3937.4	2903.0	1397.3	280.9	112.7
32.5°	2114.3	3672.6	4721.7	*5029.0*	5009.9	4427.6	3317.0	1729.5	393.6	133.1
35°	2458.1	4045.7	5296.7	*5674.2*	5688.9	4966.0	3684.3	2051.4	490.2	171.2
37.5°	2752.2	4527.1	6062.0	*6498.0*	6517.0	5636.2	4069.1	2367.4	573.6	188.8
40°	3115.1	5317.2	7329.1	*8069.5*	8072.4	6885.7	4761.2	2721.5	686.2	196.1
42.5°	3930.1	7010.1	9804.8	*10868.5*	10960.7	9478.5	6334.1	3489.7	863.3	212.2
45°	5560.1	9241.5	12962.3	*14187.0*	14304.1	12704.8	9030.8	5263.1	1252.5	259.0
47.5°	7498.8	11181.6	14797.2	*15976.5*	16054.0	14230.9	10836.3	7314.4	2131.9	449.2
50°	8691.3	11900.1	15471.7	*16596.9*	16610.0	14732.8	11402.6	8379.6	3037.6	738.9
52.5°	9061.5	11992.2	15498.0	*16858.8*	16896.8	14674.3	11480.1	8594.7	3415.1	857.4
55°	8910.8	11938.1	15776.0	*17359.2*	17400.2	14912.8	11427.5	8359.2	3238.0	822.3
57.5°	8566.9	12148.8	16232.5	*17953.3*	17953.3	15353.2	11622.1	7964.1	2804.9	747.7
58°	*8515.7*	*12201.5*	*16257.4*	*17985.4*	*17972.3*	*15381.0*	*11702.5*	*7907.0*	*2709.8*	*719.9*
60°	8445.5	12363.9	16073.1	*17509.9*	17471.9	15184.9	11848.9	7855.8	2248.9	564.8
62.5°	8343.1	11998.1	14729.9	*16111.1*	16013.1	13811.0	11428.9	7555.9	1678.3	419.9
65°	7817.8	10647.6	12279.0	*13235.9*	13205.2	11361.6	9837.0	6768.7	1208.6	311.7
67.5°	6590.2	8335.8	9918.9	*11071.9*	11079.2	9275.1	7693.4	5409.4	822.3	248.7
70°	4635.4	6148.3	8432.3	*9715.5*	9774.1	7779.7	5699.1	3605.3	542.8	213.6
72.5°	2768.3	4644.1	7011.6	*7986.1*	7955.3	6455.6	4228.6	2149.4	330.7	190.2
75°	1341.7	2775.7	3543.8	*4110.1*	4086.7	3229.2	2253.3	1053.5	241.4	171.2
77.5°	364.3	853.0	1372.5	*1785.1*	1833.4	1293.5	738.9	282.4	150.7	128.8
80°	122.9	263.4	447.7	*608.7*	624.8	558.9	278.0	99.5	65.8	64.4
82.5°	46.8	64.4	81.9	*73.2*	73.2	76.1	60.0	42.4	30.7	26.3
85°	0.0	0.0	1.5	*2.9*	2.9	4.4	4.4	4.4	2.9	2.9
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

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-5

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-735-U-5WQ

Data in this report applies to families of products including GSS-SB1A-735-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

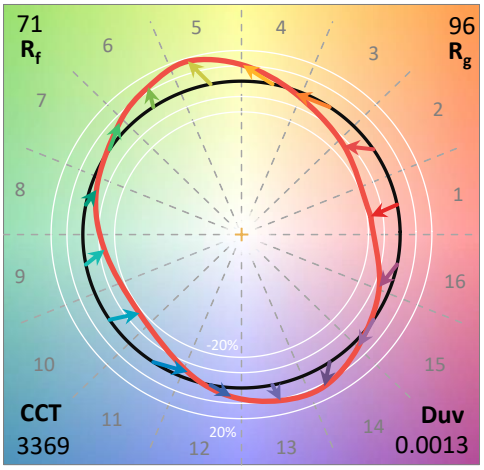
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-5
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-735-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K):	3369
CIE u':	0.2386
CIE v':	0.5156
Duv:	0.0013
CIE x:	0.4143
CIE y:	0.3980
CIE z:	0.1877
Peak Wavelength (nm):	590
Dominant Wavelength (nm):	580
Purity:	43.80166
Rf:	71.4
Rg:	96

CRI (Ra):	70.1
R1:	66.6
R2:	77.6
R3:	88.5
R4:	69.5
R5:	66.4
R6:	69.6
R7:	77.5
R8:	44.9
R9:	-40.2
R10:	49.1
R11:	66.3
R12:	45.7
R13:	68.0
R14:	93.4
R15:	57.6



Test Conditions

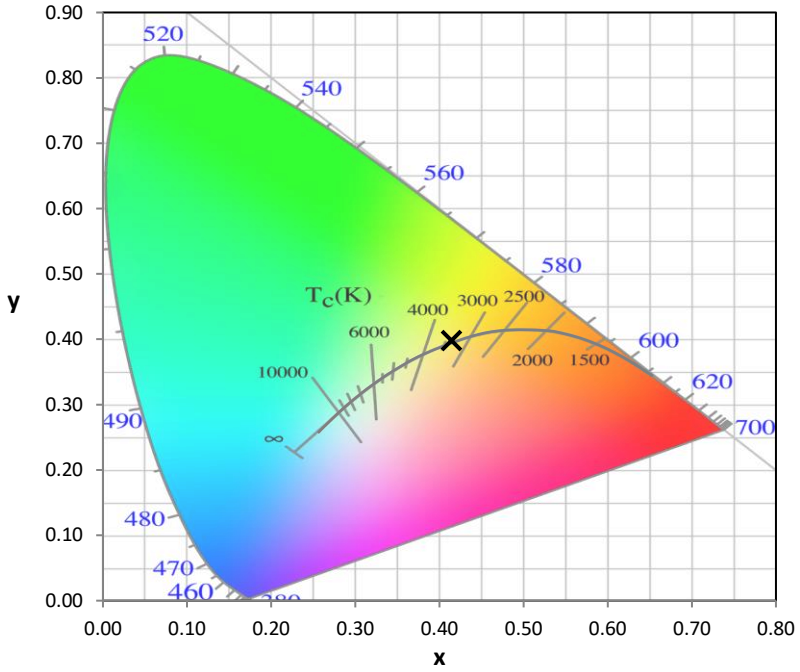
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-5

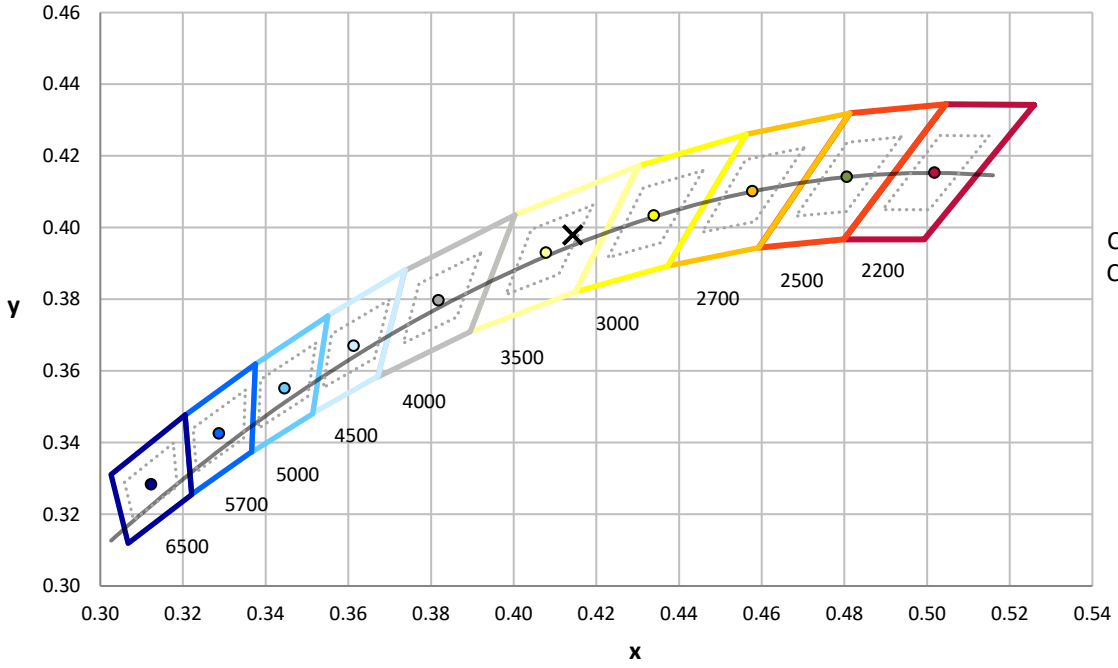
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-5

CIE 1931 Chromaticity Diagram



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

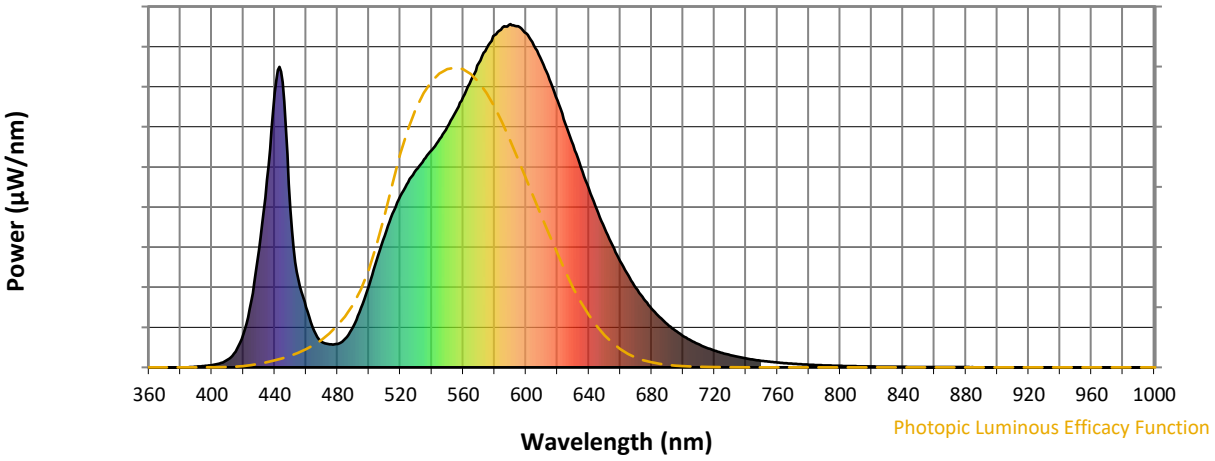


CCT = 3369K
CIE x = 0.4143
CIE y = 0.3980
Duv = 0.0013

Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-5

Photopic Flux vs. Wavelength

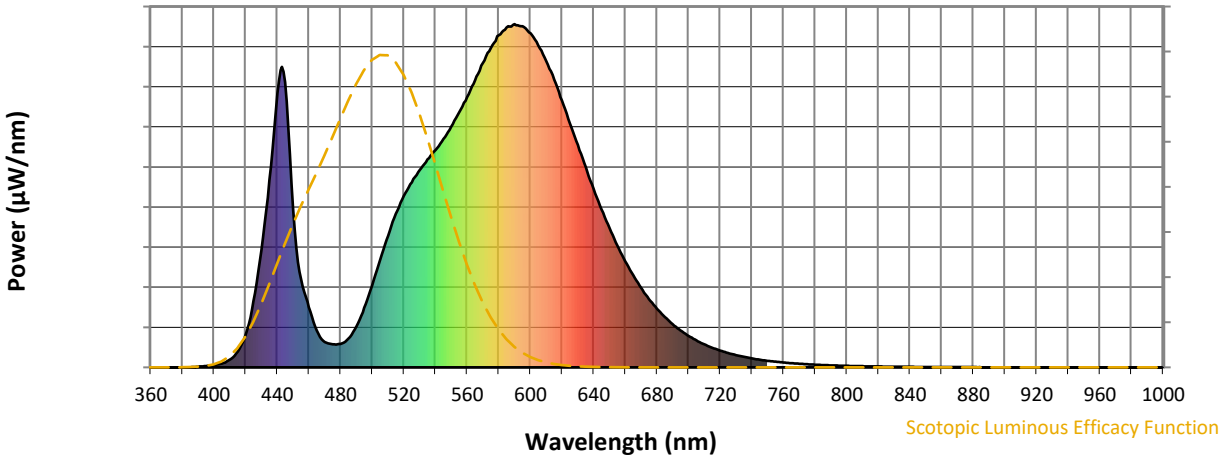


Photopic Lumens: NR

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

Scotopic Flux vs. Wavelength

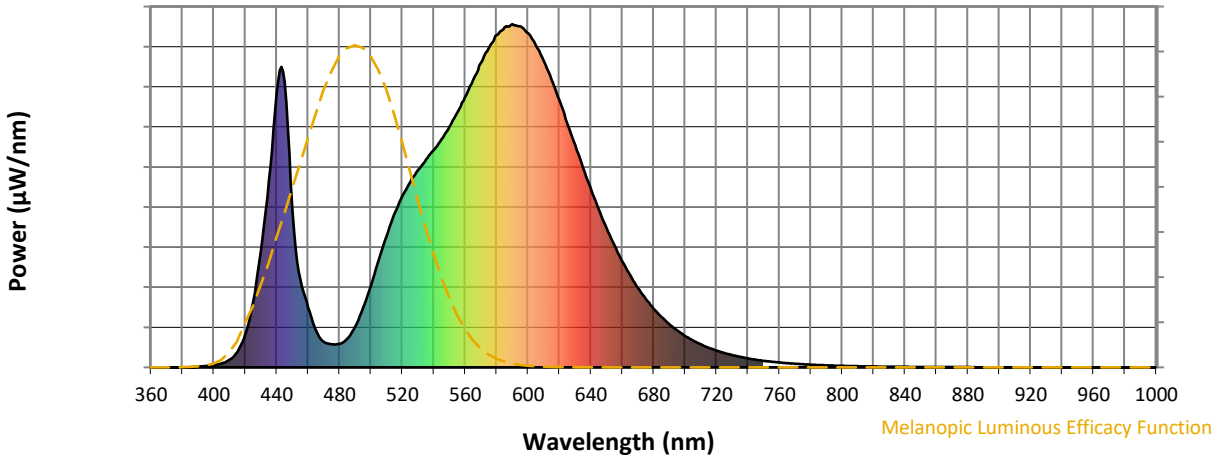


Scotopic Lumens: NR **S/P: 1.29**

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.36**

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

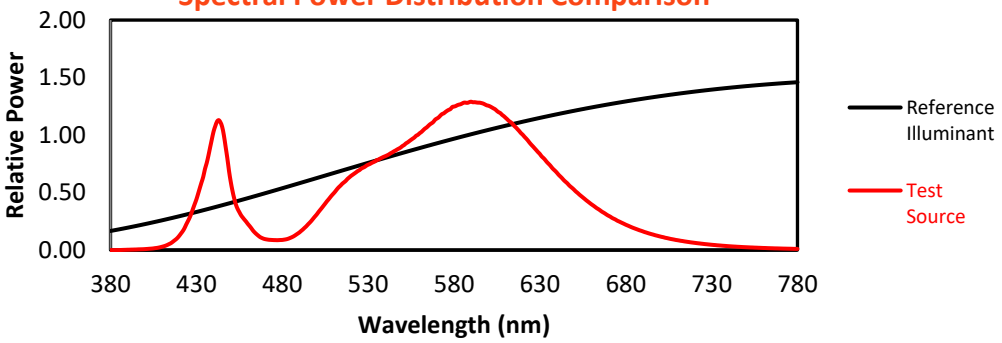
REPORT NUMBER: SP1-2407-184-5

TM-30-18

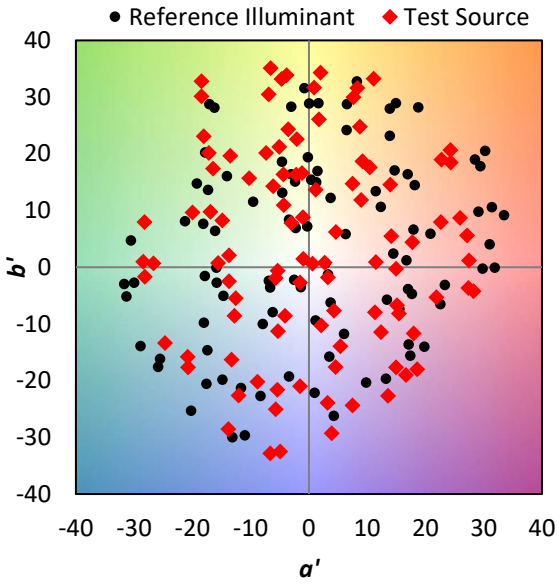
Summary

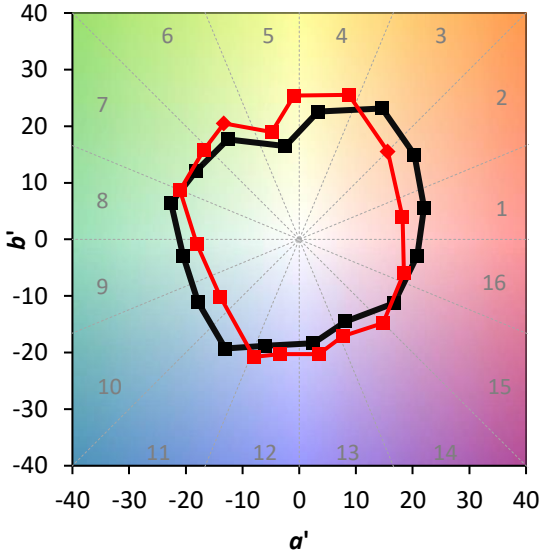
R_f = 71.4
R_g = 96
CIE R_a = 70.1
R_9 = -40.2

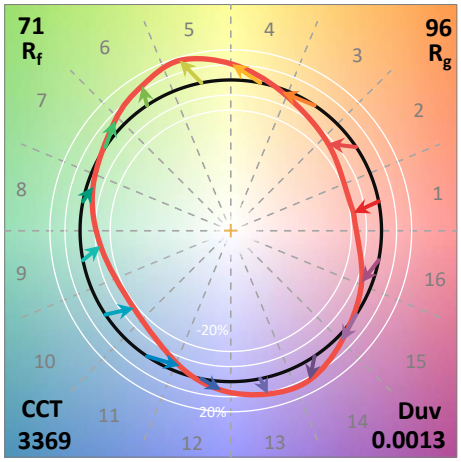
Spectral Power Distribution Comparison

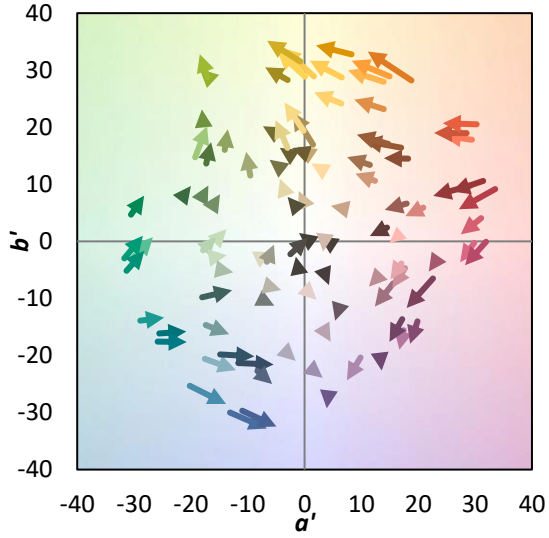


Color Vector Graphics







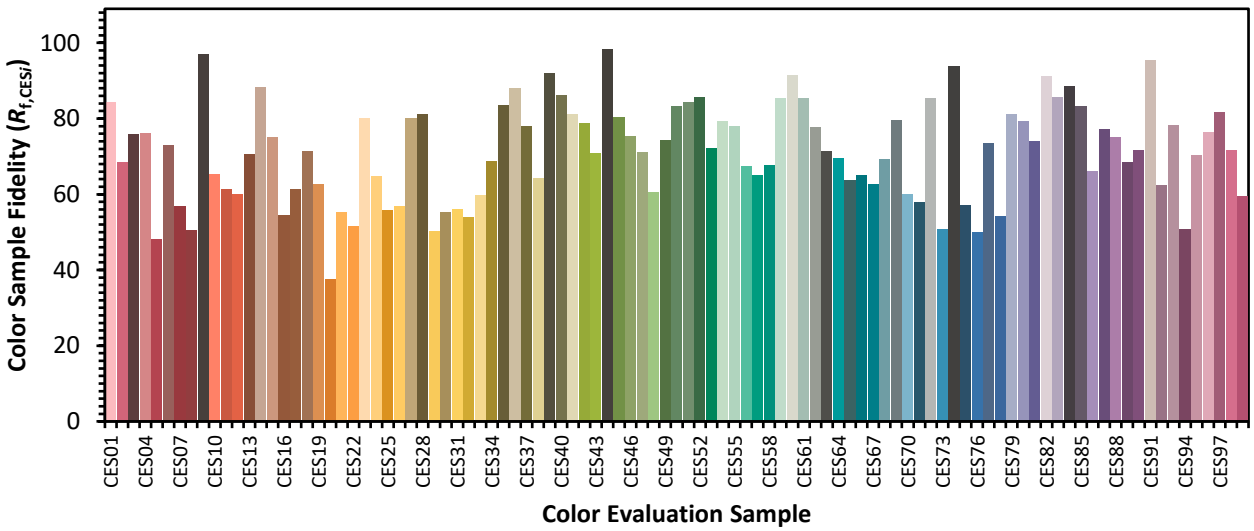


REPORT NUMBER: SP1-2407-184-5

TM-30-18

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

CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82 = 91
CES08 = 39	CES33 = 60	CES58 = 68	CES83 = 86
CES09 = 29	CES34 = 69	CES59 = 85	CES84 = 89
CES10 = 75	CES35 = 83	CES60 = 91	CES85 = 83
CES11 = 58	CES36 = 88	CES61 = 85	CES86 = 66
CES12 = 64	CES37 = 78	CES62 = 78	CES87 = 77
CES13 = 43	CES38 = 64	CES63 = 71	CES88 = 75
CES14 = 74	CES39 = 92	CES64 = 70	CES89 = 68
CES15 = 71	CES40 = 86	CES65 = 64	CES90 = 72
CES16 = 47	CES41 = 81	CES66 = 65	CES91 = 95
CES17 = 50	CES42 = 79	CES67 = 63	CES92 = 62
CES18 = 56	CES43 = 71	CES68 = 69	CES93 = 78
CES19 = 72	CES44 = 98	CES69 = 80	CES94 = 51
CES20 = 65	CES45 = 80	CES70 = 60	CES95 = 70
CES21 = 87	CES46 = 75	CES71 = 58	CES96 = 76
CES22 = 79	CES47 = 71	CES72 = 85	CES97 = 82
CES23 = 92	CES48 = 61	CES73 = 51	CES98 = 72
CES24 = 91	CES49 = 74	CES74 = 94	CES99 = 60
CES25 = 72	CES50 = 83	CES75 = 57	



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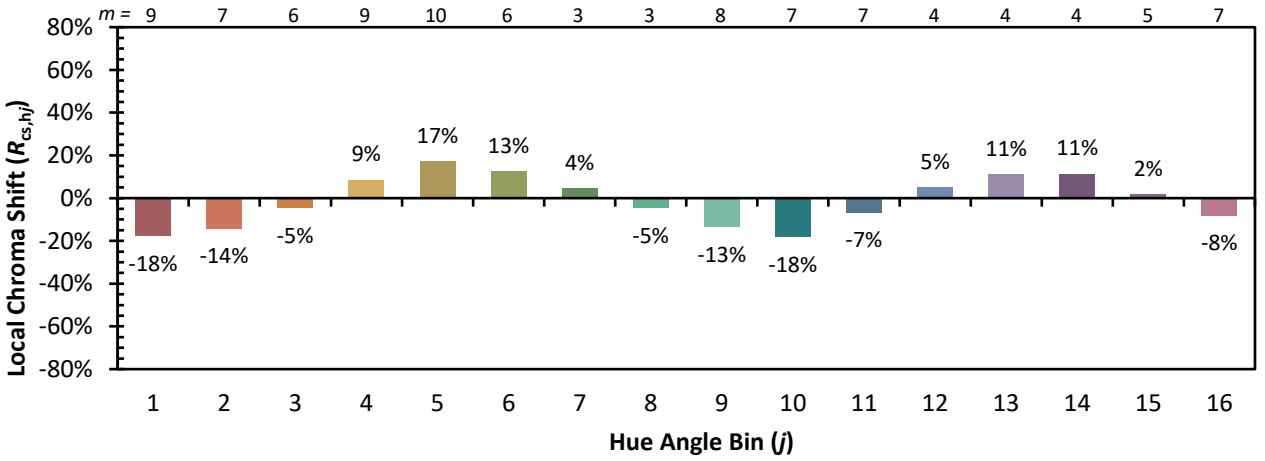
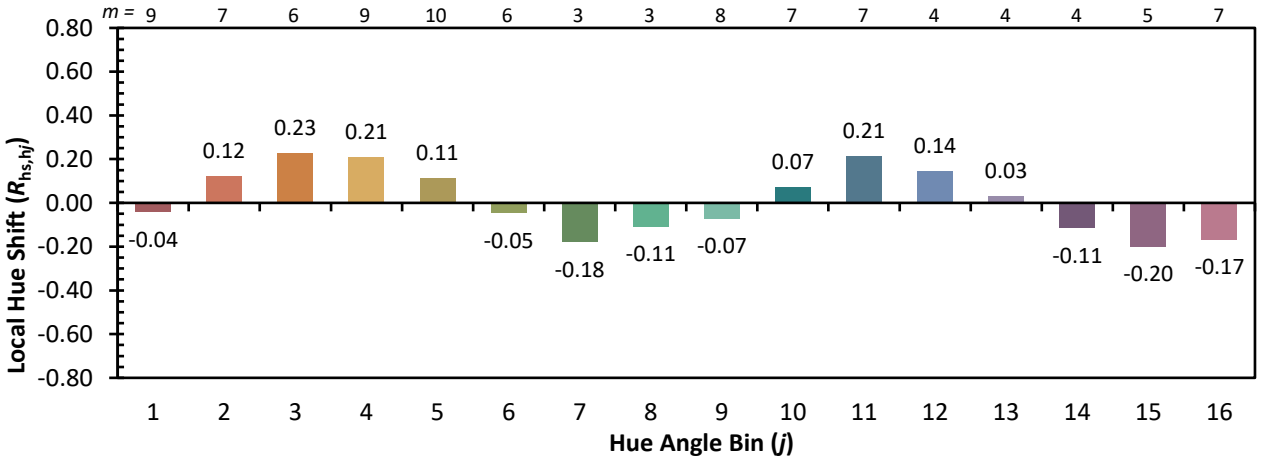
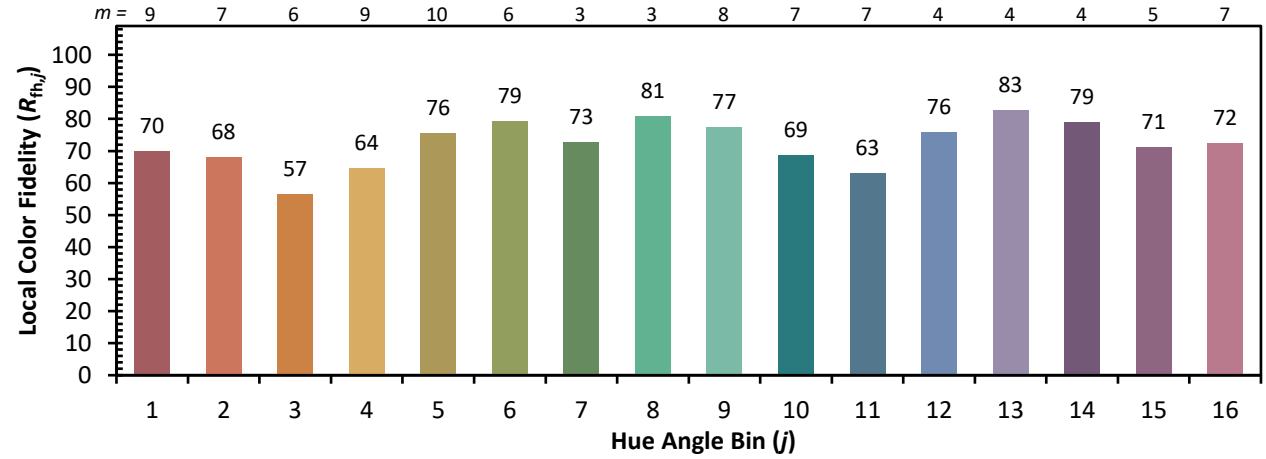
Color Rendition by Hue-Angle Bin







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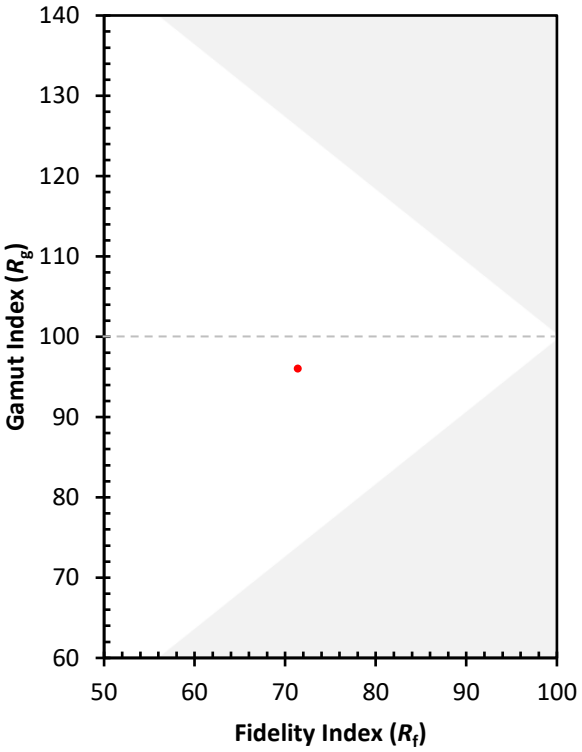
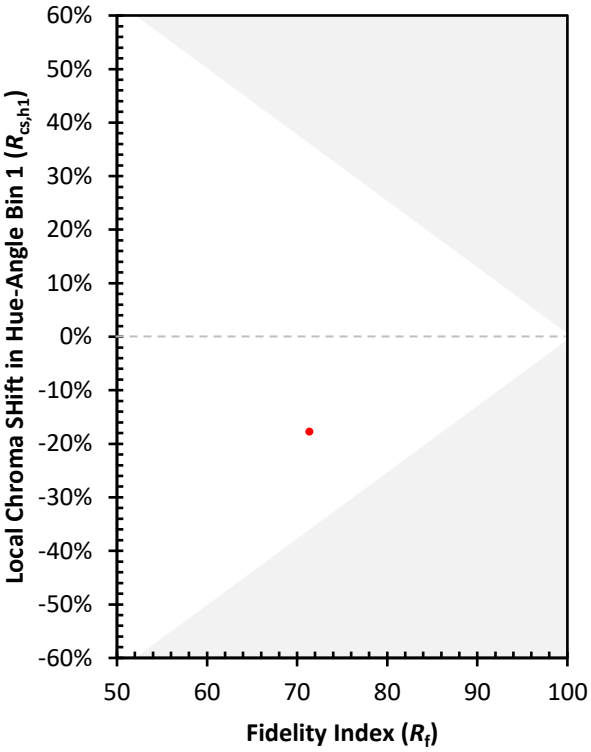
Measure Comparisons





(END OF REPORT)