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: LUMARK

Report Number: P1067919

Luminaire Tested: **NAV-SA1C-727-U-LBC**

Issue Date: 08/07/2025

Report Generated By 670347003

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1067919
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	08/07/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	LUMARK
Catalog Number:	NAV-SA1C-727-U-LBC
Description:	Navion AREA AND ROADWAY LUMINAIRE 1050mA 1xLight Square PACKAGE 70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source:	(14) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4148.1 lumens
Efficiency:	N/A
Efficacy:	82.8 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B0 - U0 - G1

Input Watts (W):	50.1
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.97
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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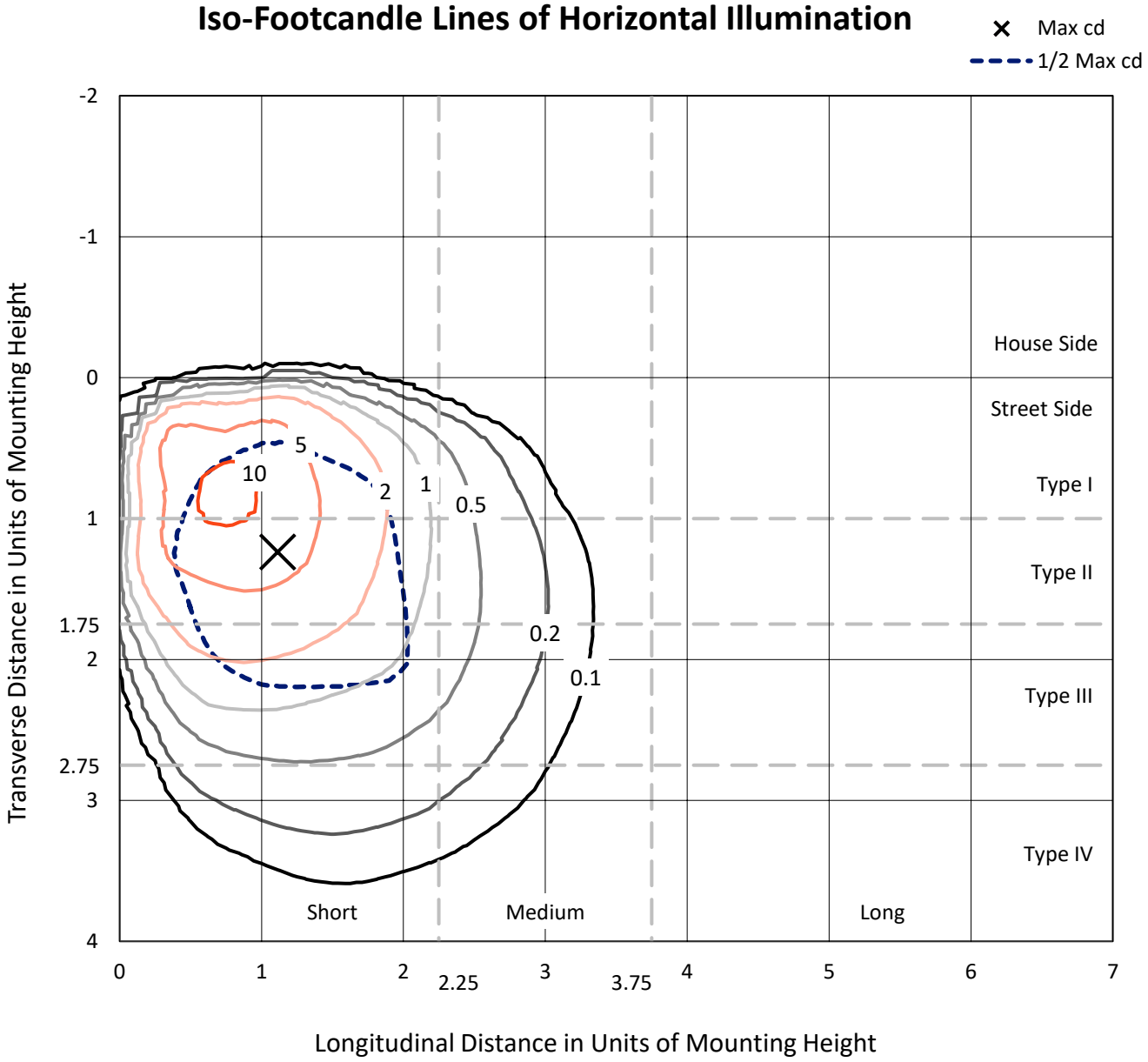
Iso-Footcandle Lines of Horizontal Illumination



Based on 15 foot mounting height. Maximum calculated value = 12.3 fc
Type III - Short - N/A

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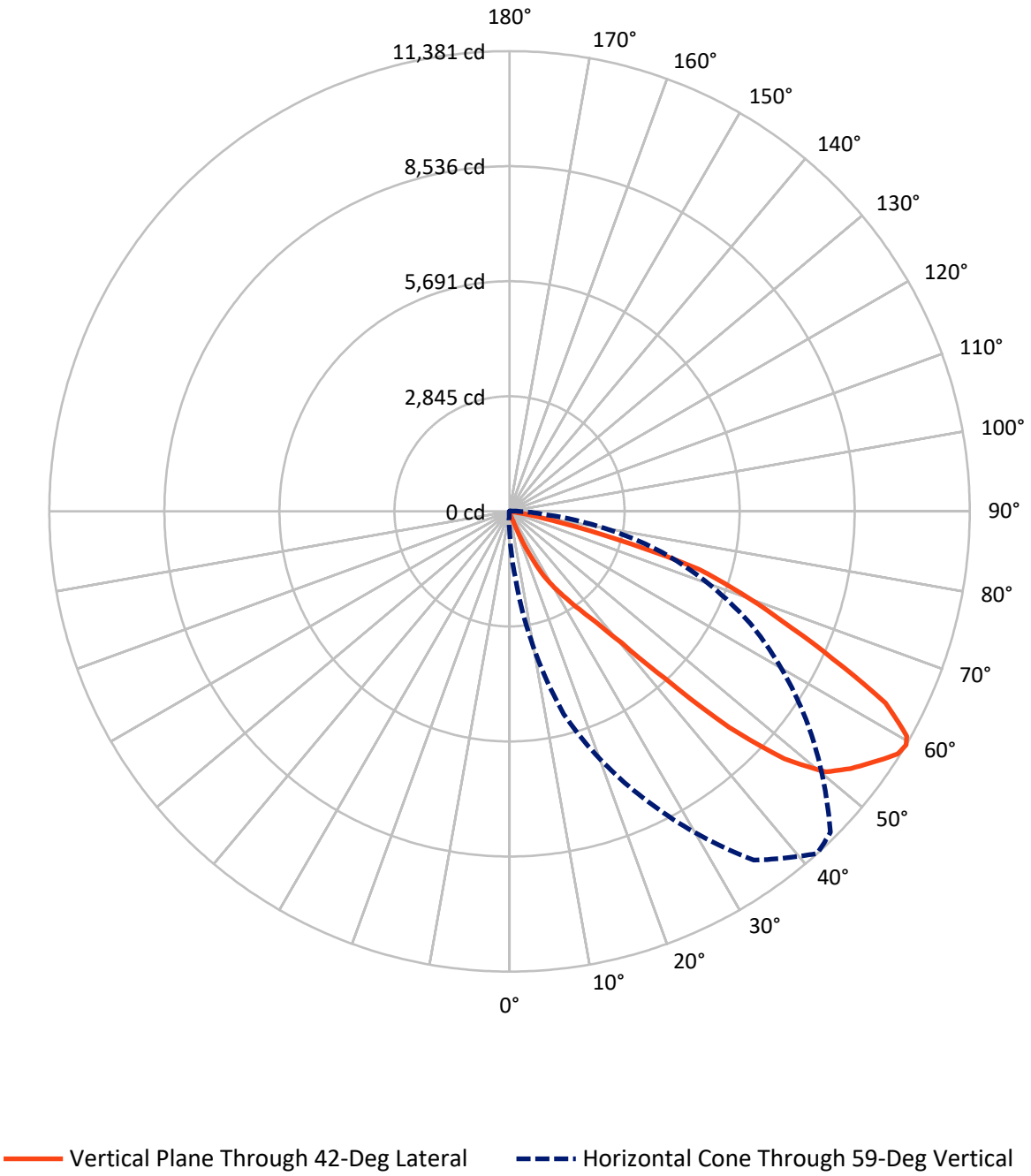
Luminous Intensity Polar Plot



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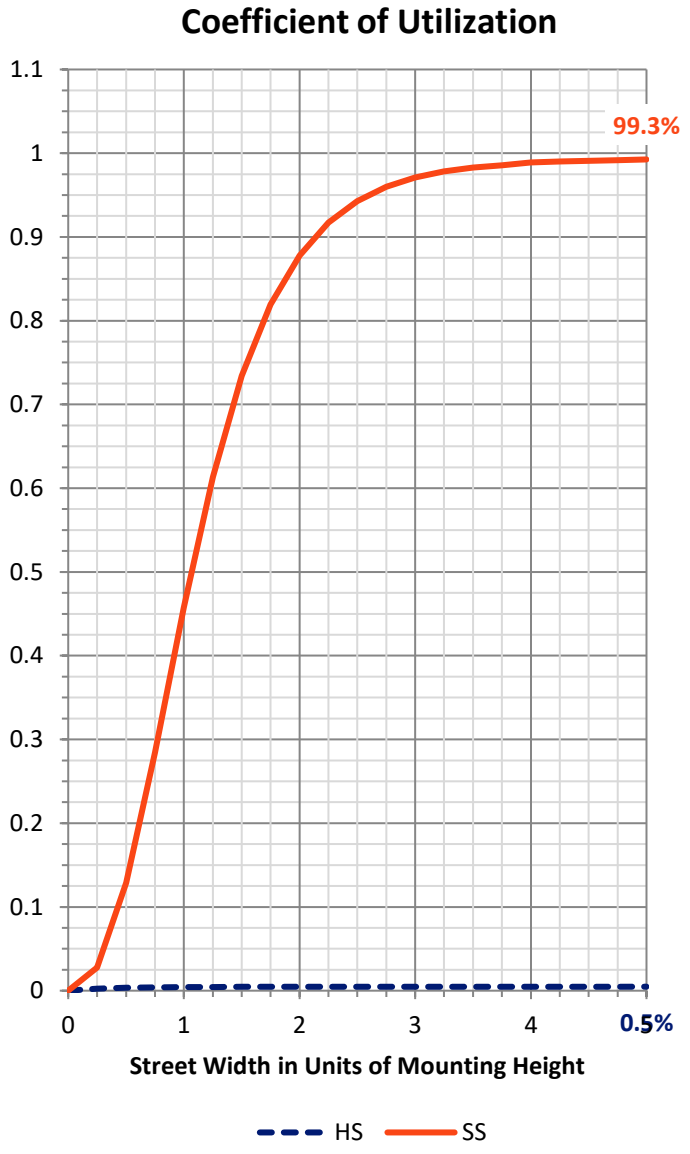
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20.0	0.0	20.0
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	4128.1	0.0	4128.1
	% Fixture	99.5	0.0	99.5
Total	Lumens	4148.1	0.0	4148.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.2	0.0
10°-20°	6.0	0.1
20°-30°	77.4	1.9
30°-40°	260.9	6.3
40°-50°	787.9	19.0
50°-60°	1390.9	33.5
60°-70°	1224.7	29.5
70°-80°	389.8	9.4
80°-90°	9.3	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°	4148.1	100.0
0°-180°	4148.1	100.0



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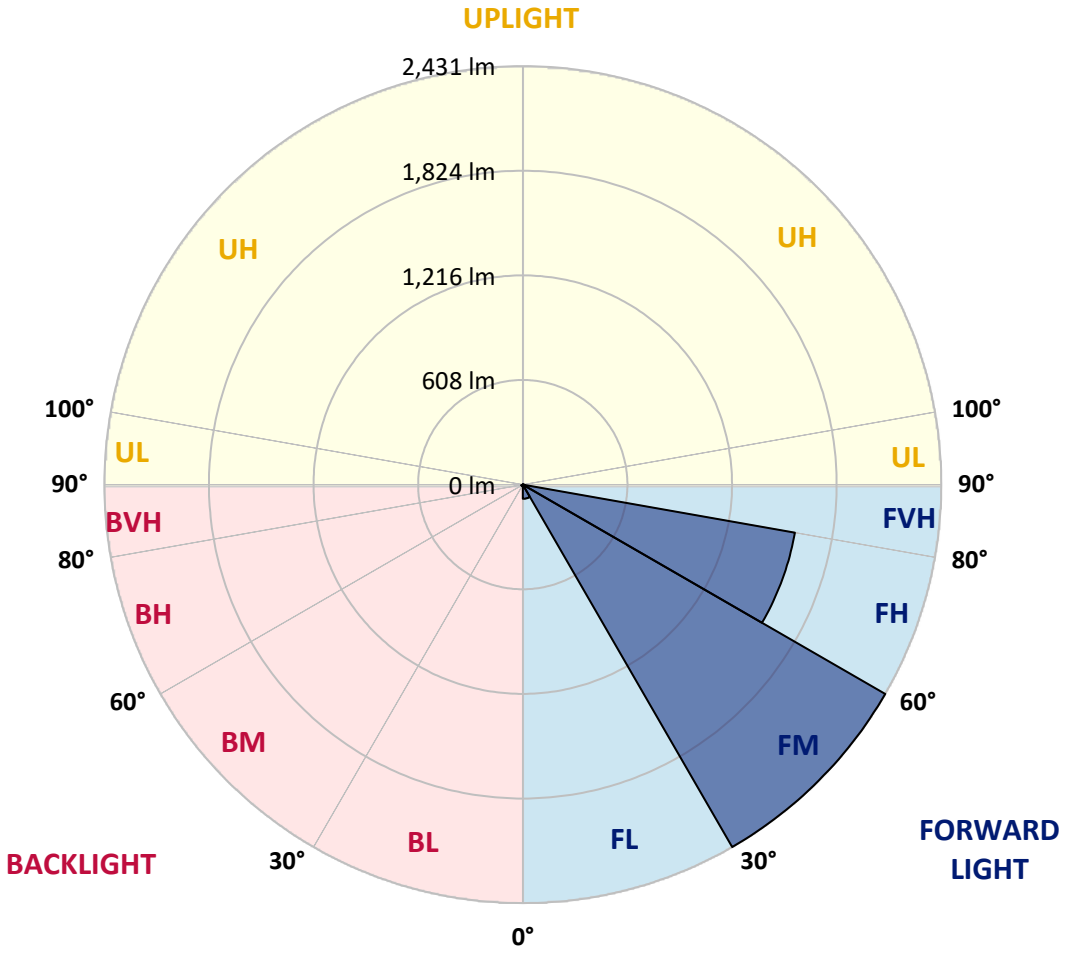
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	82.4	2.0			
FM	(30°-60°)	2431.5	58.6			
FH	(60°-80°)	1605.4	38.7			G1/1800
FVH	(80°-90°)	8.9	0.2			G0/10
BL	(0°-30°)	2.2	0.1	B0/110		
BM	(30°-60°)	8.2	0.2	B0/220		
BH	(60°-80°)	9.1	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°	42°	45°	55°	65°	75°	85°
0°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
2.5°	18.2	18.2	16.9	15.6	14.3	13.0	13.0	13.0	11.7	11.7	10.4
5°	20.8	20.8	19.5	18.2	18.2	16.9	16.9	15.6	14.3	14.3	13.0
7.5°	22.1	22.1	22.1	22.1	20.8	20.8	20.8	19.5	18.2	16.9	15.6
10°	23.4	24.7	26.0	26.0	26.0	26.0	26.0	24.7	22.1	20.8	18.2
12.5°	26.0	27.3	29.9	32.5	32.5	33.8	32.5	31.2	28.6	24.7	20.8
15°	28.6	31.2	35.1	40.3	45.5	46.8	46.8	42.9	37.7	29.9	24.7
17.5°	32.5	36.4	46.8	63.7	81.9	96.2	96.2	85.8	59.8	39.0	28.6
20°	35.1	42.9	75.4	153.5	234.1	293.9	282.2	249.7	134.0	61.1	31.2
22.5°	39.0	54.6	160.0	403.2	624.3	733.5	707.5	537.1	300.4	109.2	37.7
25°	44.2	79.3	317.3	755.6	1160.1	1278.5	1261.6	1002.7	547.5	183.4	48.1
27.5°	54.6	117.1	508.5	1145.8	1711.6	1813.0	1806.5	1468.4	875.3	295.2	62.4
30°	68.9	170.4	754.3	1556.8	2077.0	2179.8	2147.3	1809.1	1180.9	451.3	80.6
32.5°	85.8	238.0	976.7	1859.8	2413.9	2549.1	2510.1	2105.6	1426.7	584.0	119.7
35°	111.8	304.3	1196.5	2127.7	2802.7	2974.4	2909.4	2411.3	1638.7	733.5	144.4
37.5°	124.9	343.4	1398.1	2419.1	3239.7	3473.8	3424.4	2797.5	1854.6	924.7	176.9
40°	126.2	390.2	1607.5	2798.8	3857.5	4275.0	4186.6	3460.8	2256.5	1170.5	227.6
42.5°	130.1	460.4	1879.3	3446.5	5071.0	5670.5	5570.4	4680.8	3168.2	1663.4	322.5
45°	148.3	593.1	2433.4	4657.4	6737.0	7616.2	7500.4	6380.6	4441.5	2590.7	550.1
47.5°	212.0	892.2	3404.9	5964.4	8440.7	9141.8	9113.1	7720.2	5595.1	3541.5	932.5
50°	340.8	1369.5	4510.4	7063.4	9525.4	10127.6	10056.1	8279.5	6253.2	4190.5	1195.2
52.5°	455.2	1826.0	5204.9	7467.9	9849.3	10567.2	10480.1	8483.7	6426.2	4381.6	1268.1
55°	483.8	1991.2	5411.7	7592.8	10063.9	10939.2	10813.0	8620.2	6448.3	4245.1	1147.1
57.5°	469.5	1835.1	5277.7	7715.0	10363.0	11321.5	11153.7	8886.8	6522.4	4013.6	954.6
59°	444.8	1642.6	5194.5	7812.6	10528.2	11381.4	11224.0	8945.4	6571.8	3908.2	837.6
60°	416.2	1512.6	5129.5	7876.3	10517.8	11287.7	11125.1	8918.1	6591.3	3817.2	781.6
62.5°	321.2	1206.9	5035.8	7830.8	9861.0	10433.2	10340.9	8249.6	6305.2	3525.9	616.5
65°	249.7	923.4	4692.5	6984.1	8391.3	8776.3	8747.7	6985.4	5306.4	3039.4	444.8
67.5°	197.7	673.7	3968.1	5656.2	6751.3	7298.8	7278.0	5670.5	4027.9	2322.8	319.9
70°	161.3	479.9	2720.8	4264.6	5400.0	6089.3	6059.4	4563.7	2984.8	1473.6	232.8
72.5°	136.6	306.9	1650.4	3215.0	4506.5	4900.6	4813.4	3681.9	2170.7	802.5	184.7
75°	115.8	188.6	818.1	2004.2	2684.4	2681.8	2594.7	1949.6	1165.3	392.8	147.0
77.5°	93.6	132.7	321.2	550.1	846.7	1048.3	1031.4	690.6	348.6	114.5	91.0
80°	61.1	62.4	85.8	150.9	232.8	257.5	292.6	210.7	101.4	54.6	37.7
82.5°	27.3	29.9	39.0	49.4	49.4	45.5	40.3	29.9	22.1	18.2	9.1
85°	6.5	9.1	6.5	7.8	6.5	5.2	5.2	2.6	0.0	0.0	0.0
87.5°	1.3	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
2.5°	10.4	10.4	10.4	9.1	9.1	9.1	7.8	7.8	7.8	6.5	6.5
5°	13.0	11.7	10.4	10.4	9.1	9.1	7.8	6.5	6.5	6.5	5.2
7.5°	14.3	13.0	11.7	10.4	9.1	7.8	7.8	6.5	5.2	5.2	5.2
10°	16.9	15.6	13.0	10.4	9.1	7.8	6.5	6.5	5.2	3.9	3.9
12.5°	19.5	16.9	14.3	11.7	9.1	7.8	6.5	6.5	5.2	3.9	2.6
15°	22.1	19.5	15.6	11.7	9.1	7.8	6.5	6.5	3.9	2.6	1.3
17.5°	24.7	20.8	15.6	13.0	9.1	7.8	6.5	5.2	2.6	1.3	0.0
20°	26.0	22.1	16.9	13.0	9.1	7.8	6.5	3.9	1.3	0.0	0.0
22.5°	28.6	24.7	18.2	13.0	9.1	6.5	3.9	1.3	0.0	0.0	0.0
25°	33.8	26.0	18.2	13.0	9.1	6.5	2.6	0.0	0.0	0.0	0.0
27.5°	37.7	28.6	18.2	13.0	9.1	5.2	1.3	0.0	0.0	0.0	0.0
30°	44.2	31.2	19.5	13.0	9.1	3.9	1.3	0.0	0.0	0.0	0.0
32.5°	54.6	33.8	19.5	13.0	7.8	3.9	0.0	0.0	0.0	0.0	0.0
35°	66.3	39.0	19.5	13.0	7.8	3.9	0.0	0.0	0.0	0.0	0.0
37.5°	67.6	41.6	19.5	13.0	7.8	2.6	0.0	0.0	0.0	0.0	0.0
40°	70.2	39.0	20.8	13.0	7.8	2.6	0.0	0.0	0.0	0.0	0.0
42.5°	80.6	36.4	22.1	13.0	7.8	2.6	0.0	0.0	0.0	0.0	0.0
45°	119.7	37.7	22.1	14.3	7.8	3.9	0.0	0.0	0.0	0.0	0.0
47.5°	208.1	39.0	20.8	14.3	7.8	3.9	0.0	0.0	0.0	0.0	0.0
50°	266.6	45.5	20.8	15.6	9.1	2.6	0.0	0.0	0.0	0.0	0.0
52.5°	283.5	53.3	20.8	16.9	11.7	1.3	0.0	0.0	0.0	0.0	0.0
55°	275.7	62.4	22.1	18.2	14.3	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	254.9	67.6	23.4	19.5	15.6	0.0	0.0	0.0	0.0	0.0	0.0
59°	*232.8*	*71.5*	*27.3*	*20.8*	*15.6*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*
60°	214.6	75.4	28.6	22.1	15.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	173.0	80.6	31.2	26.0	13.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	150.9	84.5	32.5	28.6	11.7	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	137.9	87.1	35.1	29.9	10.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	127.5	85.8	37.7	28.6	9.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	115.8	81.9	45.5	26.0	7.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	104.0	74.1	49.4	23.4	5.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	75.4	62.4	45.5	20.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	32.5	33.8	32.5	15.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.5	7.8	6.5	3.9	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°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
2.5°	6.5	6.5	6.5	6.5	7.8	7.8	10.4	13.0	15.6	16.9	16.9
5°	5.2	5.2	5.2	5.2	5.2	6.5	7.8	10.4	14.3	15.6	15.6
7.5°	3.9	3.9	3.9	3.9	3.9	3.9	6.5	9.1	13.0	14.3	15.6
10°	3.9	2.6	2.6	1.3	1.3	2.6	3.9	7.8	11.7	13.0	14.3
12.5°	2.6	1.3	1.3	0.0	0.0	1.3	2.6	6.5	10.4	11.7	13.0
15°	1.3	0.0	0.0	0.0	0.0	0.0	1.3	5.2	9.1	10.4	13.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	7.8	10.4	11.7
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	6.5	9.1	10.4
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	5.2	7.8	9.1
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	5.2	6.5
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	3.9	5.2
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	3.9	5.2
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.6	3.9
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.6	3.9
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.6	2.6
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.6
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.6
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.6
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.6
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.6
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
59°	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*1.3*
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
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: P1067919
CATALOG NUMBER: NAV-SA1C-727-U-LBC

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	318°	325°	335°	345°	355°	360°
0°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
2.5°	18.2	18.2	16.9	15.6	15.6	15.6	16.9	18.2	18.2	18.2
5°	16.9	16.9	15.6	15.6	15.6	15.6	16.9	19.5	20.8	20.8
7.5°	16.9	16.9	15.6	15.6	15.6	15.6	16.9	19.5	20.8	22.1
10°	15.6	15.6	15.6	15.6	14.3	15.6	16.9	19.5	23.4	23.4
12.5°	15.6	15.6	15.6	15.6	14.3	15.6	18.2	20.8	24.7	26.0
15°	15.6	15.6	15.6	14.3	14.3	15.6	18.2	22.1	26.0	28.6
17.5°	14.3	15.6	15.6	14.3	14.3	15.6	18.2	22.1	28.6	32.5
20°	13.0	14.3	15.6	14.3	14.3	14.3	18.2	22.1	29.9	35.1
22.5°	11.7	13.0	14.3	14.3	13.0	14.3	18.2	23.4	32.5	39.0
25°	10.4	11.7	11.7	13.0	13.0	14.3	18.2	23.4	33.8	44.2
27.5°	7.8	9.1	10.4	11.7	11.7	14.3	18.2	24.7	36.4	54.6
30°	6.5	7.8	9.1	10.4	11.7	14.3	18.2	24.7	39.0	68.9
32.5°	6.5	7.8	9.1	10.4	11.7	13.0	18.2	26.0	42.9	85.8
35°	5.2	6.5	7.8	10.4	10.4	13.0	18.2	26.0	46.8	111.8
37.5°	5.2	6.5	7.8	10.4	10.4	13.0	18.2	26.0	57.2	124.9
40°	3.9	5.2	6.5	10.4	10.4	13.0	19.5	27.3	58.5	126.2
42.5°	3.9	5.2	6.5	9.1	10.4	13.0	19.5	27.3	54.6	130.1
45°	3.9	5.2	6.5	10.4	11.7	14.3	19.5	28.6	53.3	148.3
47.5°	3.9	5.2	6.5	10.4	13.0	14.3	19.5	28.6	54.6	212.0
50°	3.9	5.2	6.5	10.4	14.3	14.3	19.5	28.6	59.8	340.8
52.5°	2.6	3.9	5.2	9.1	11.7	15.6	20.8	27.3	63.7	455.2
55°	2.6	2.6	3.9	7.8	10.4	16.9	22.1	27.3	74.1	483.8
57.5°	2.6	2.6	3.9	6.5	9.1	18.2	23.4	27.3	85.8	469.5
59°	*2.6*	*2.6*	*2.6*	*6.5*	*7.8*	*18.2*	*23.4*	*28.6*	*87.1*	*444.8*
60°	2.6	2.6	2.6	5.2	7.8	18.2	24.7	29.9	88.4	416.2
62.5°	1.3	1.3	1.3	5.2	6.5	18.2	27.3	36.4	91.0	321.2
65°	2.6	2.6	1.3	3.9	6.5	15.6	31.2	39.0	92.3	249.7
67.5°	2.6	2.6	2.6	5.2	6.5	15.6	32.5	40.3	92.3	197.7
70°	2.6	2.6	2.6	5.2	7.8	15.6	32.5	41.6	91.0	161.3
72.5°	2.6	2.6	2.6	5.2	7.8	14.3	29.9	42.9	87.1	136.6
75°	2.6	2.6	2.6	3.9	6.5	13.0	28.6	46.8	79.3	115.8
77.5°	2.6	2.6	2.6	2.6	5.2	10.4	26.0	52.0	70.2	93.6
80°	3.9	2.6	2.6	2.6	3.9	9.1	24.7	50.7	58.5	61.1
82.5°	3.9	2.6	2.6	1.3	2.6	6.5	19.5	39.0	29.9	27.3
85°	2.6	2.6	2.6	1.3	1.3	3.9	9.1	11.7	9.1	6.5
87.5°	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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: SP1-2407-184-3

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

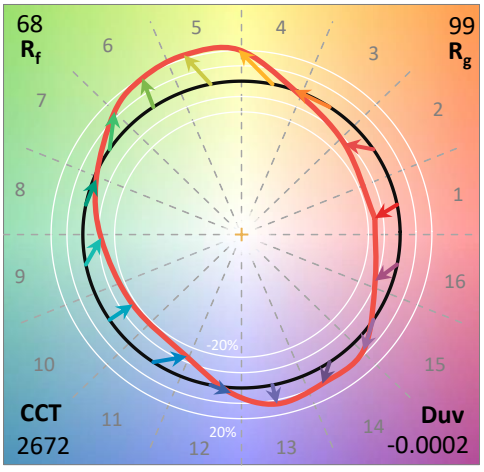
Test Information

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
CIE u':	0.2638
CIE v':	0.5276
Duv:	-0.0002
CIE x:	0.4619
CIE y:	0.4106
CIE z:	0.1275
Peak Wavelength (nm):	601
Dominant Wavelength (nm):	584
Purity:	61.88407
Rf:	67.9
Rg:	98.6

CRI (Ra):	71.1
R1:	68.3
R2:	79.8
R3:	91.2
R4:	69.4
R5:	66.5
R6:	72.6
R7:	77.0
R8:	44.1
R9:	-27.8
R10:	54.4
R11:	65.8
R12:	45.6
R13:	69.8
R14:	94.5
R15:	60.1



Test Conditions

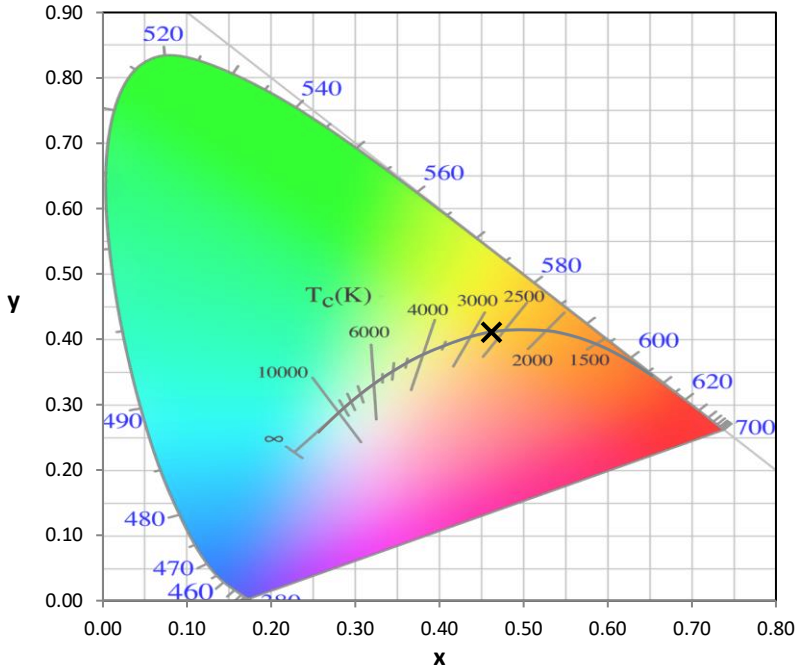
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-3

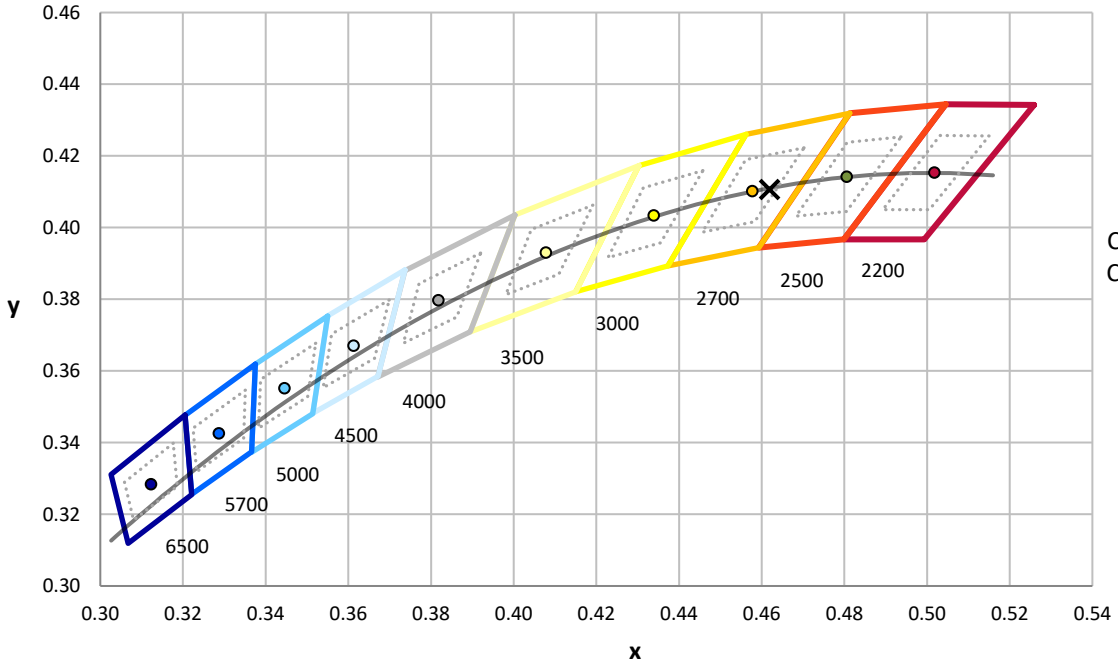
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-3

CIE 1931 Chromaticity Diagram



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

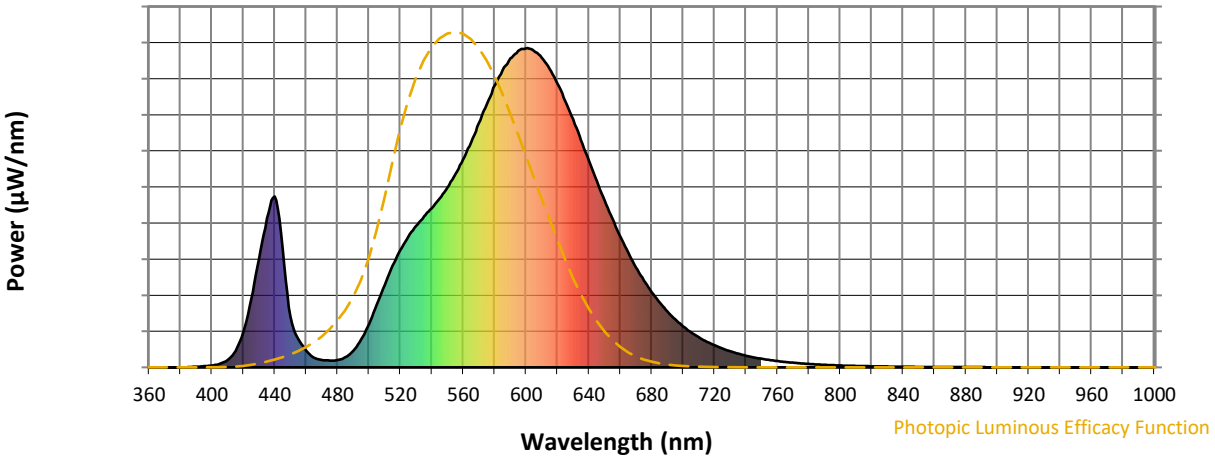


CCT = 2672K
CIE x = 0.4619
CIE y = 0.4106
Duv = -0.0002

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-3

Photopic Flux vs. Wavelength

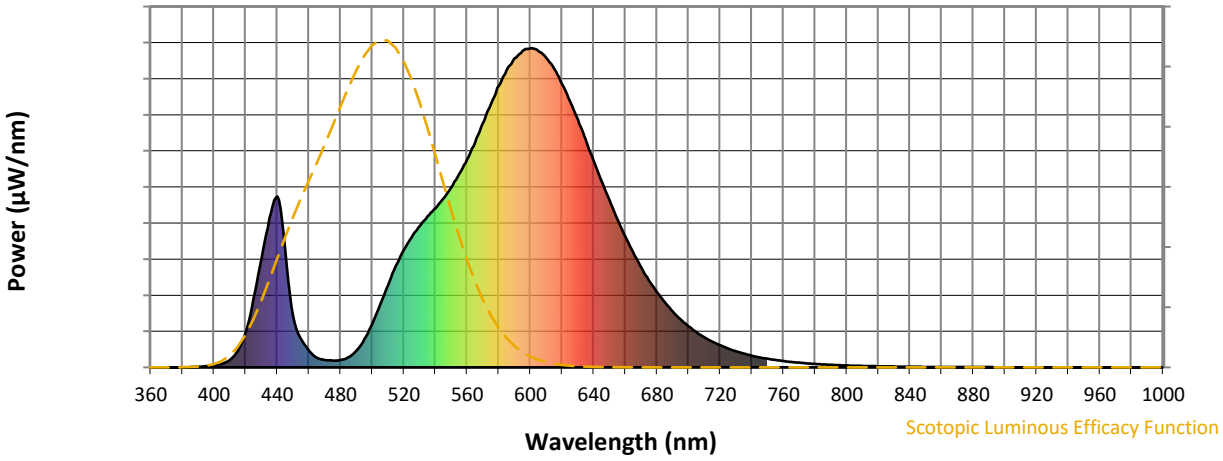


Photopic Lumens: NR

λ (nm)	Power W^/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

Scotopic Flux vs. Wavelength

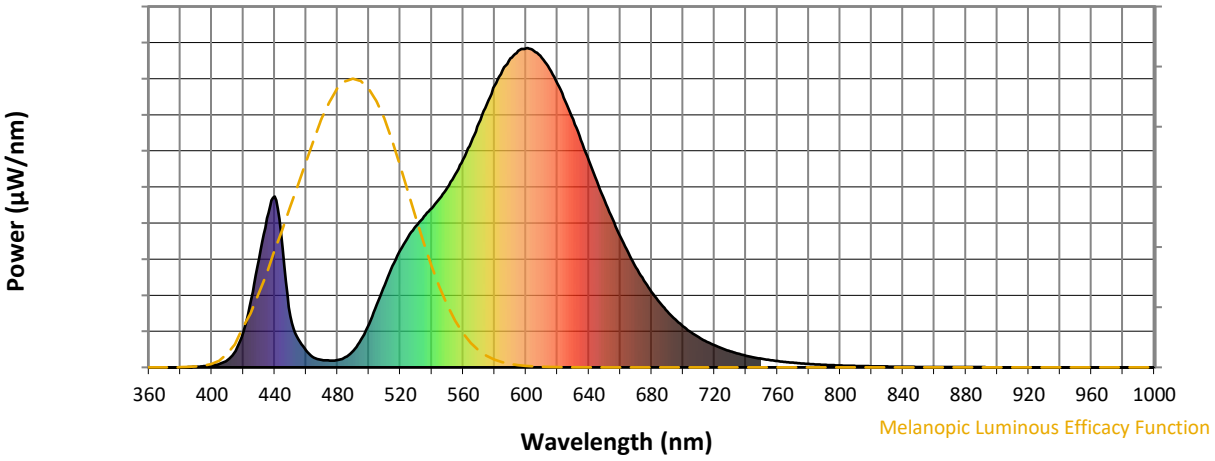


Scotopic Lumens: NR **S/P: 1.02**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

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			

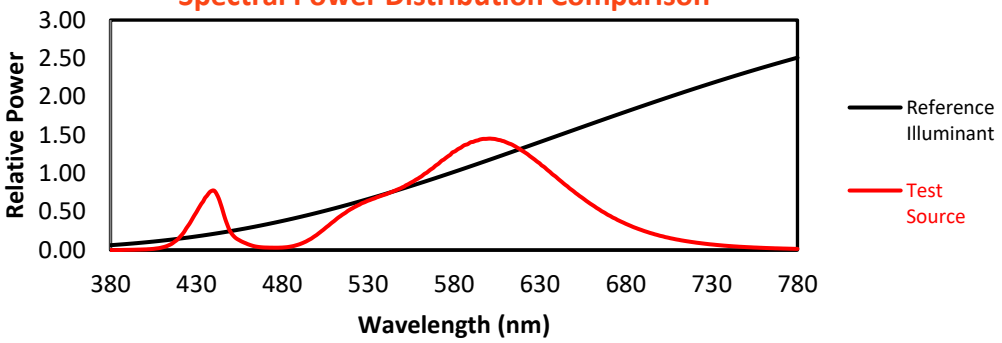
REPORT NUMBER: SP1-2407-184-3

TM-30-18

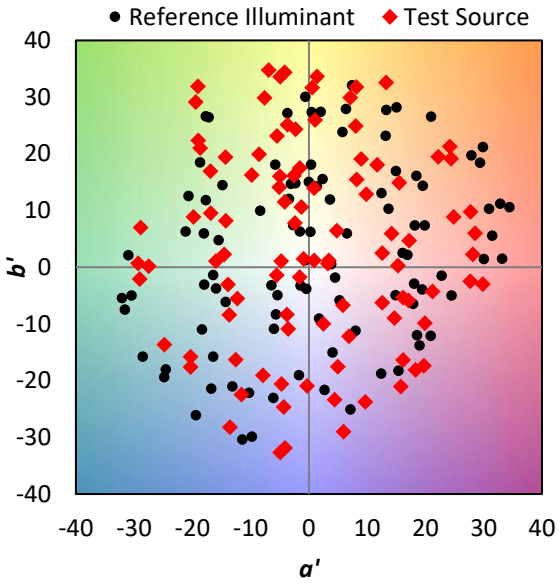
Summary

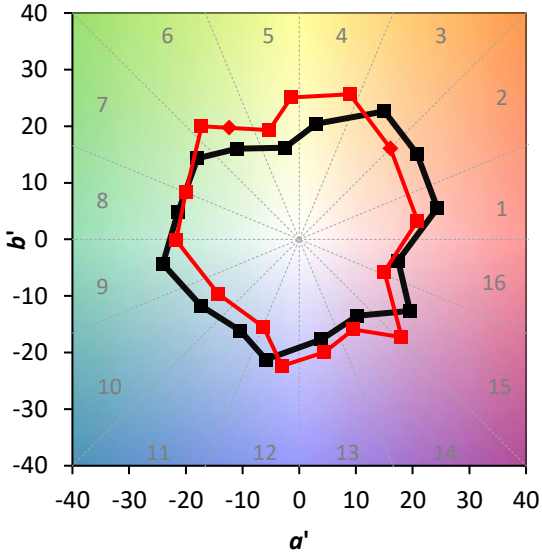
R_f = 67.9
R_g = 98.6
CIE R_a = 71.1
R_9 = -27.8

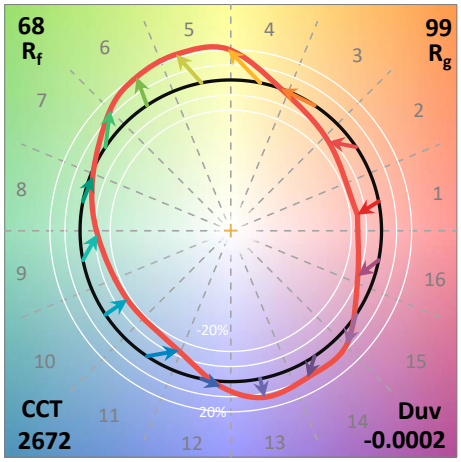
Spectral Power Distribution Comparison

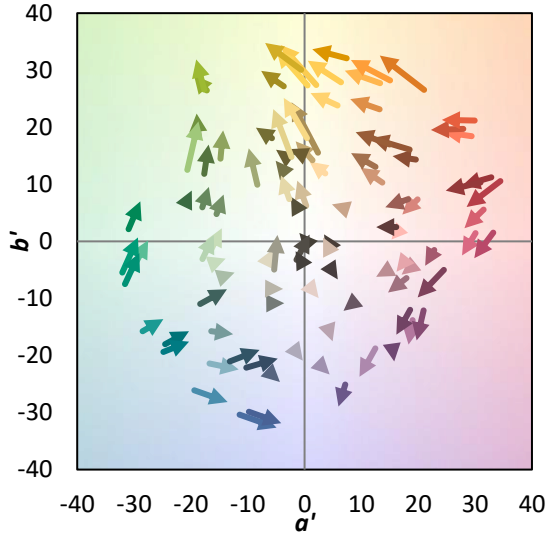


Color Vector Graphics







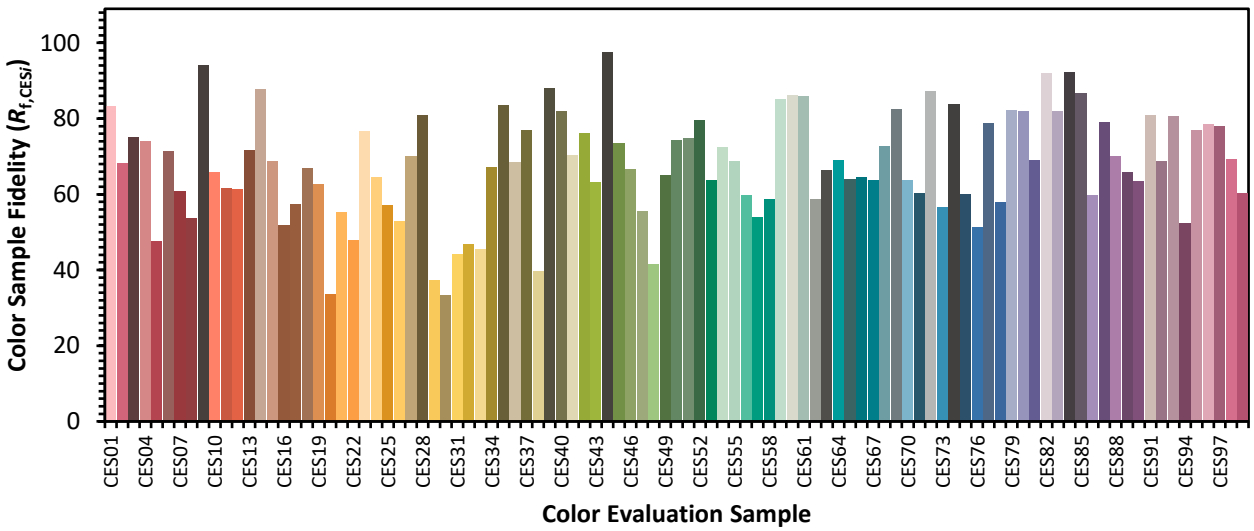


REPORT NUMBER: SP1-2407-184-3

TM-30-18

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

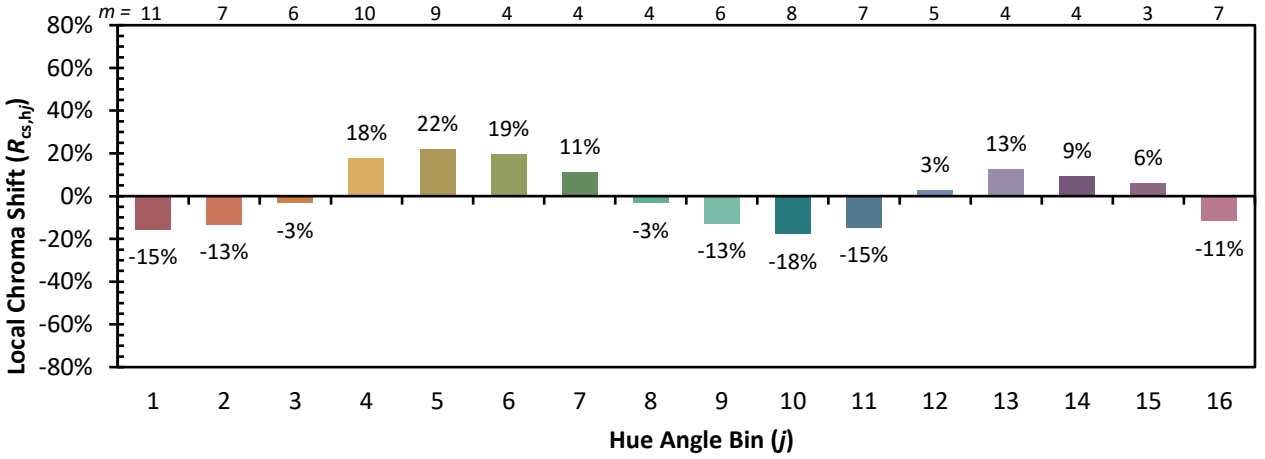
CES01 = 86	CES26 = 53	CES51 = 75	CES76 = 51
CES02 = 63	CES27 = 70	CES52 = 80	CES77 = 79
CES03 = 31	CES28 = 81	CES53 = 64	CES78 = 58
CES04 = 71	CES29 = 37	CES54 = 73	CES79 = 82
CES05 = 50	CES30 = 33	CES55 = 69	CES80 = 82
CES06 = 52	CES31 = 44	CES56 = 60	CES81 = 69
CES07 = 42	CES32 = 47	CES57 = 54	CES82 = 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	

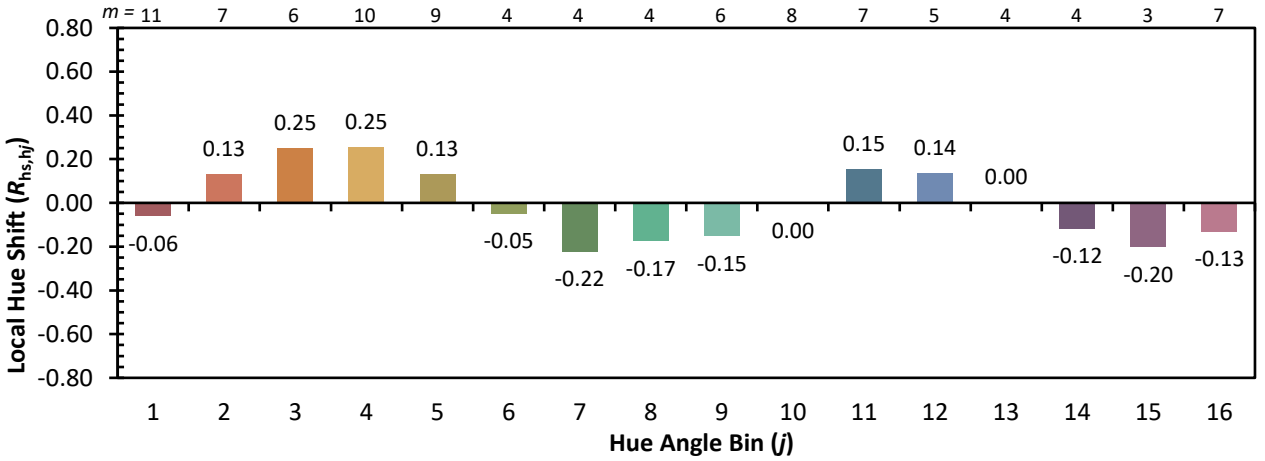


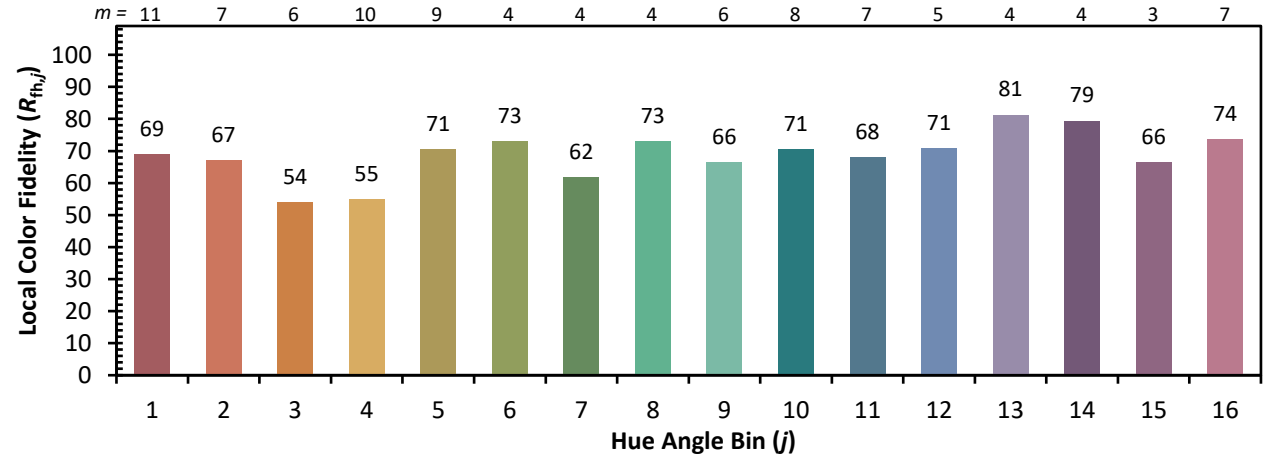
REPORT NUMBER: SP1-2407-184-3

TM-30-18

Color Rendition by Hue-Angle Bin



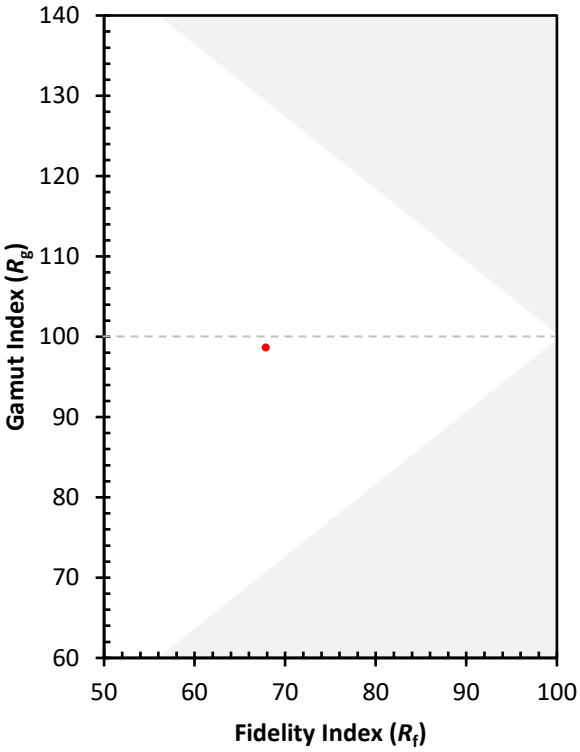


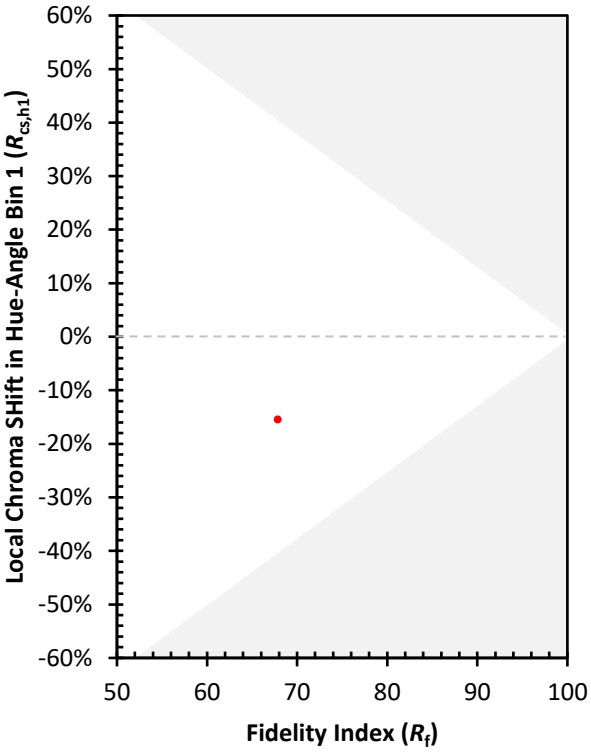


REPORT NUMBER: SP1-2407-184-3

TM-30-18

Measure Comparisons





(END OF REPORT)