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: P1364551

Luminaire Tested: **GSS-SB1A-727-U-SLR-HSS**

Issue Date: 02/18/2026

Report Generated By 670245763

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1364551
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	02/18/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB1A-727-U-SLR-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 1SQUARE 31W 70CRI 2700K FIXTURE w/ 90° Spill Light Eliminator RIGHT OPTIC AND HOUSE SIDE SHIELD
Light Source:	(26) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2856.1 lumens
Efficiency:	N/A
Efficacy:	92.1 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B1 - U0 - G1

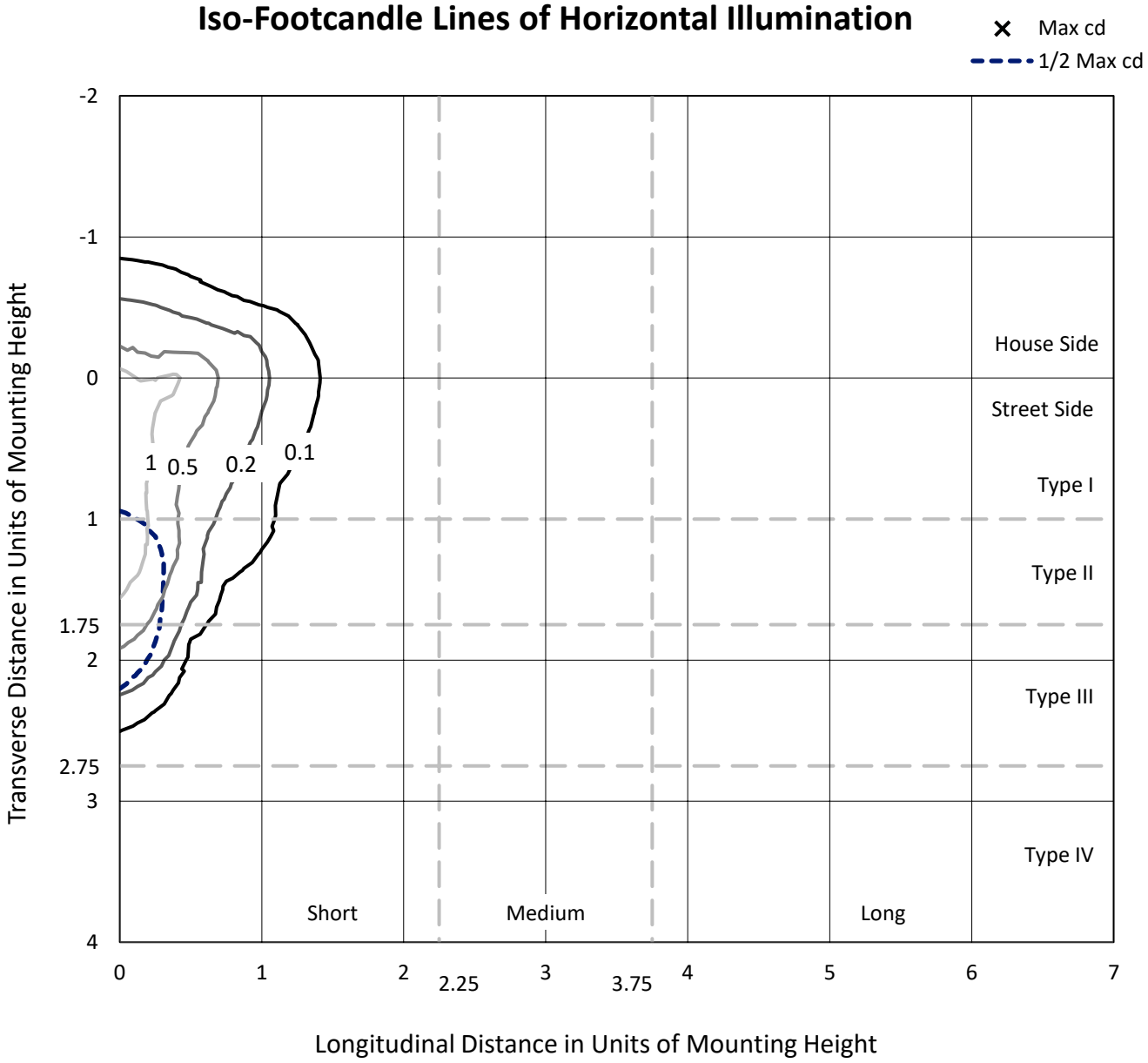
Input Watts (W):	31
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	6.4%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



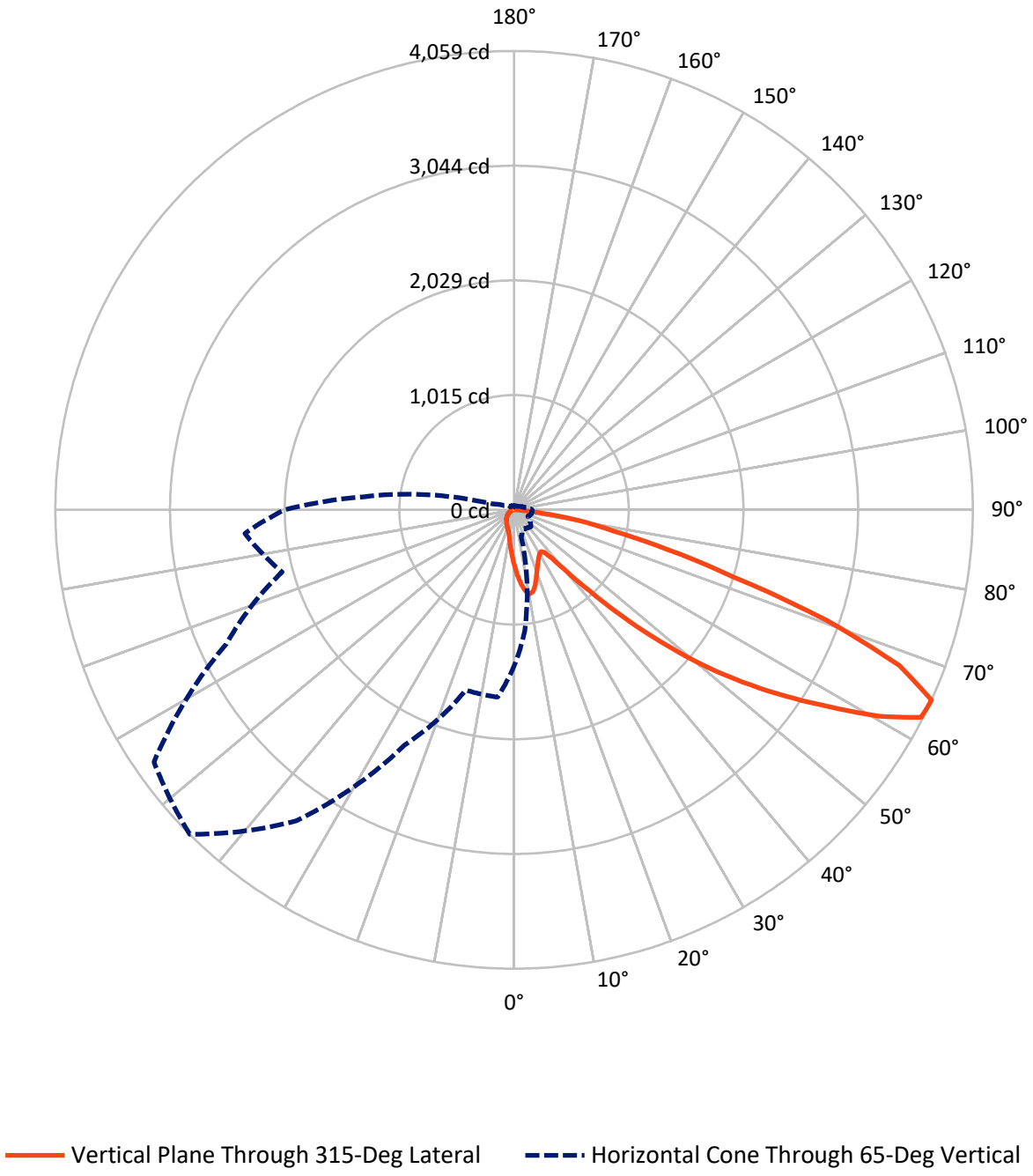
Based on 20 foot mounting height. Maximum calculated value = 1.6 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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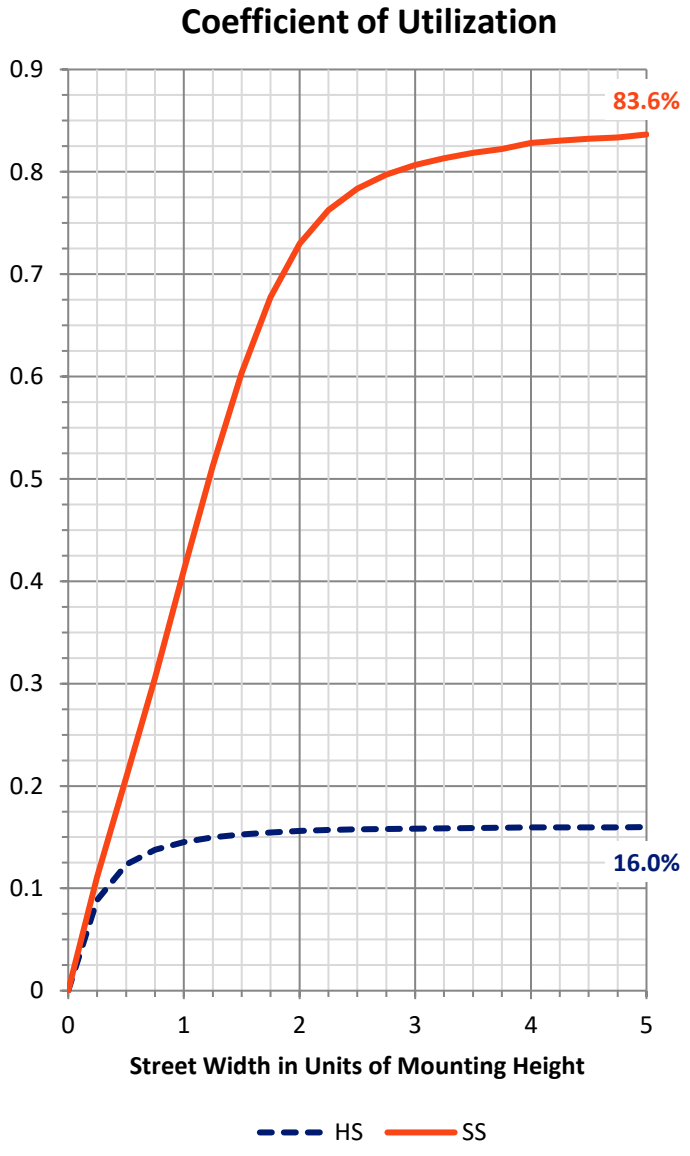
REPORT NUMBER: P1364551
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	461.7	0.0	461.7
	% Fixture	16.2	0.0	16.2
Street Side	Lumens	2394.4	0.0	2394.4
	% Fixture	83.8	0.0	83.8
Total	Lumens	2856.1	0.0	2856.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.5	1.7
10°-20°	131.2	4.6
20°-30°	188.0	6.6
30°-40°	235.8	8.3
40°-50°	387.3	13.6
50°-60°	698.9	24.5
60°-70°	775.6	27.2
70°-80°	350.4	12.3
80°-90°	41.4	1.5
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°	2856.1	100.0
0°-180°	2856.1	100.0



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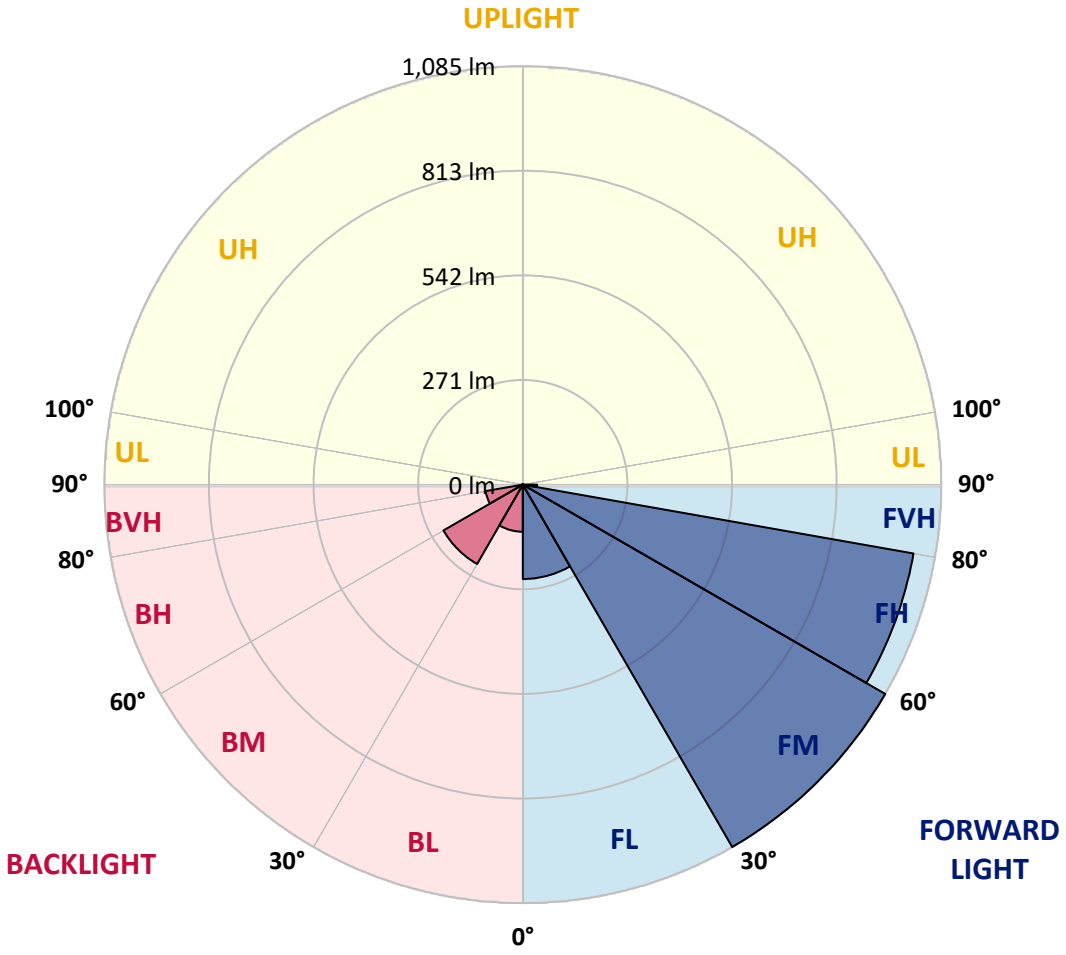
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	244.6	8.6			
FM	(30°-60°)	1084.5	38.0			
FH	(60°-80°)	1028.0	36.0			G1/1800
FVH	(80°-90°)	37.2	1.3			G1/100
BL	(0°-30°)	122.0	4.3	B1/500		
BM	(30°-60°)	237.4	8.3	B1/1000		
BH	(60°-80°)	98.1	3.4	B0/110		G0/110
BVH	(80°-90°)	4.2	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	493.8	493.8	493.8	493.8	493.8	493.8	493.8	493.8	493.8	493.8	493.8
2.5°	556.9	556.4	554.3	541.1	528.0	516.6	505.2	493.8	478.0	465.7	455.2
5°	609.5	606.7	595.5	575.3	553.4	534.1	512.2	491.1	467.4	448.1	428.0
7.5°	645.5	642.7	631.4	598.1	564.8	541.1	517.4	495.5	469.2	443.8	414.8
10°	662.1	659.0	646.4	610.4	571.8	542.9	519.2	499.0	477.1	451.7	415.7
12.5°	673.5	669.7	654.2	613.0	573.6	544.6	520.1	500.8	485.0	470.1	435.0
15°	680.6	677.0	663.0	620.0	574.4	542.0	513.0	494.6	489.4	492.0	475.3
17.5°	691.1	687.7	674.4	628.8	579.7	537.6	498.1	478.0	489.4	513.0	518.3
20°	705.1	701.6	687.6	640.2	584.1	524.4	470.1	450.8	479.7	519.2	546.4
22.5°	720.9	718.1	706.9	653.4	588.5	505.2	433.2	424.5	459.6	501.6	536.7
25°	740.2	737.6	727.0	671.8	592.9	478.8	401.7	403.4	433.2	466.6	502.5
27.5°	766.5	764.0	754.2	694.6	598.1	451.7	376.2	385.0	406.9	429.7	451.7
30°	795.4	793.5	785.8	721.8	608.6	426.2	361.3	366.6	381.5	399.9	413.1
32.5°	834.9	831.8	819.1	747.2	607.8	406.9	354.3	349.0	353.4	368.3	381.5
35°	884.0	881.6	871.7	773.5	592.0	389.4	350.8	332.4	329.8	338.5	351.7
37.5°	955.9	953.8	945.4	816.5	567.4	367.5	342.0	314.8	306.1	312.2	321.0
40°	1063.8	1058.4	1036.6	865.6	540.2	345.5	326.2	293.8	281.5	285.9	295.6
42.5°	1210.3	1199.9	1158.5	931.4	503.4	324.5	302.6	272.7	259.6	262.2	271.0
45°	1397.9	1382.3	1319.9	1021.7	464.8	307.8	278.0	250.8	236.8	239.4	249.1
47.5°	1617.2	1595.8	1510.2	1116.4	423.6	298.2	258.7	228.9	218.4	224.5	234.2
50°	1875.9	1854.3	1768.0	1176.9	390.3	292.0	243.8	208.7	204.3	212.2	220.1
52.5°	2158.3	2127.6	2004.8	1138.4	363.1	286.8	238.5	194.7	196.4	202.6	210.5
55°	2432.8	2364.6	2091.7	1010.3	328.0	280.6	242.1	184.2	188.6	196.4	202.6
57.5°	2611.7	2493.1	2018.9	813.9	291.2	273.6	244.7	178.9	182.4	191.2	198.2
60°	2455.6	2336.3	1859.2	609.5	259.6	258.7	240.3	177.2	171.9	184.2	190.3
62.5°	2011.8	1913.6	1520.7	389.4	229.8	230.7	230.7	176.3	154.4	170.1	175.4
65°	*1382.2*	*1320.8*	*1075.2*	*241.2*	*187.7*	*196.4*	*209.6*	*171.0*	*135.9*	*154.4*	*159.6*
67.5°	908.6	863.5	683.2	149.1	144.7	161.4	181.5	160.5	121.9	138.6	142.1
70°	492.9	458.7	321.9	98.2	94.7	126.3	143.0	135.9	109.6	123.7	127.2
72.5°	325.4	297.3	185.0	69.3	69.3	99.1	100.0	111.4	98.2	109.6	113.1
75°	244.7	219.6	119.3	48.2	53.5	63.1	78.1	79.8	82.4	93.0	97.3
77.5°	112.3	98.6	43.9	28.9	39.5	43.9	59.6	50.9	61.4	69.3	71.0
80°	64.9	56.8	24.6	19.3	25.4	28.1	49.1	29.8	36.8	49.1	51.7
82.5°	27.2	24.2	12.3	13.2	15.8	16.7	27.2	21.0	23.7	32.4	31.6
85°	7.9	7.9	7.9	8.8	9.6	9.6	15.8	14.9	14.0	14.9	14.9
87.5°	5.3	5.3	5.3	5.3	6.1	6.1	7.0	7.9	8.8	8.8	8.8
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°	493.8	493.8	493.8	493.8	493.8	493.8	493.8	493.8	493.8	493.8	493.8
2.5°	450.8	444.6	436.7	425.3	423.6	417.5	413.1	417.5	421.8	429.7	430.6
5°	417.5	407.8	389.4	375.4	359.6	351.7	350.8	349.0	354.3	365.7	372.7
7.5°	399.0	383.3	349.9	325.4	303.4	295.6	289.4	294.7	293.8	308.7	314.8
10°	394.7	370.1	323.6	286.8	259.6	249.1	242.9	242.1	243.8	252.6	258.7
12.5°	410.4	378.9	313.1	258.7	227.1	215.7	208.7	202.6	202.6	204.3	212.2
15°	445.5	407.8	319.2	245.6	211.4	196.4	185.0	177.2	171.0	171.9	172.8
17.5°	494.6	449.9	335.0	241.2	201.7	185.9	171.9	164.0	157.0	155.2	155.2
20°	533.2	490.2	347.3	237.7	193.8	173.6	161.4	154.4	148.2	145.6	145.6
22.5°	537.6	506.9	357.8	233.3	184.2	161.4	150.0	143.8	139.4	138.6	138.6
25°	508.7	493.8	354.3	228.0	174.5	150.0	141.2	135.9	131.6	130.7	131.6
27.5°	460.4	452.5	342.0	221.0	166.6	141.2	133.3	128.9	124.5	123.7	124.5
30°	417.5	408.7	321.0	209.6	160.5	134.2	125.4	121.0	116.6	116.6	117.5
32.5°	382.4	373.6	299.9	196.4	152.6	126.3	118.4	114.0	109.6	109.6	111.4
35°	350.8	343.8	283.3	183.3	144.7	119.3	110.5	107.0	103.5	102.6	104.4
37.5°	323.6	320.1	268.4	169.3	136.8	112.3	104.4	100.9	96.5	95.6	97.3
40°	297.3	295.6	251.7	157.0	127.2	105.2	97.3	93.8	88.6	88.6	90.3
42.5°	272.7	271.9	236.8	149.1	118.4	98.2	89.5	85.9	81.6	81.6	83.3
45°	253.5	252.6	222.8	144.7	109.6	90.3	82.4	78.1	74.5	75.4	77.2
47.5°	235.9	234.2	207.9	145.6	105.2	85.1	74.5	70.2	67.5	69.3	71.9
50°	221.9	220.1	197.3	146.5	98.2	78.1	68.4	64.0	62.3	64.9	67.5
52.5°	213.1	211.4	186.8	141.2	89.5	72.8	62.3	59.6	59.6	62.3	64.0
55°	204.3	202.6	169.3	129.8	79.8	67.5	57.9	56.1	56.1	58.8	60.5
57.5°	199.1	195.6	150.8	116.6	71.9	61.4	53.5	53.5	53.5	54.4	55.3
60°	191.2	182.4	131.6	100.0	65.8	55.3	50.0	49.1	49.1	48.2	49.1
62.5°	174.5	159.6	110.5	85.1	58.8	50.0	45.6	44.7	42.1	39.5	40.3
65°	*157.9*	*135.1*	*87.7*	*71.0*	*50.9*	*43.0*	*40.3*	*39.5*	*35.1*	*31.6*	*32.4*
67.5°	136.8	107.9	65.8	59.6	43.9	36.8	34.2	34.2	31.6	28.9	28.9
70°	121.9	84.2	55.3	44.7	35.1	28.9	28.9	30.7	28.1	24.6	24.6
72.5°	107.9	68.4	44.7	36.0	27.2	22.8	24.6	25.4	22.8	20.2	20.2
75°	92.1	53.5	35.1	28.1	20.2	17.5	18.4	20.2	18.4	15.8	16.7
77.5°	66.7	36.8	23.7	18.4	14.9	13.2	14.0	14.0	13.2	12.3	12.3
80°	46.5	24.6	15.8	12.3	10.5	9.6	9.6	8.8	8.8	9.6	9.6
82.5°	28.1	17.5	11.4	9.6	7.9	6.1	6.1	7.0	7.0	7.9	7.9
85°	12.3	10.5	7.9	7.0	5.3	4.4	5.3	5.3	6.1	7.0	7.0
87.5°	7.9	7.9	6.1	5.3	4.4	3.5	3.5	4.4	4.4	5.3	6.1
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°	493.8	493.8	493.8	493.8	493.8	493.8	493.8	493.8	493.8	493.8	493.8
2.5°	434.1	442.9	453.4	468.3	481.5	497.3	513.0	528.0	542.0	543.7	549.9
5°	378.0	394.7	415.7	440.3	470.1	501.6	532.3	564.8	591.1	600.7	614.8
7.5°	320.1	341.2	371.8	409.6	451.7	499.0	546.4	592.0	631.4	649.9	668.3
10°	264.9	285.0	322.7	368.3	422.7	486.7	549.9	611.3	659.5	680.6	698.1
12.5°	214.9	235.0	265.7	318.4	384.1	461.3	544.6	618.3	671.8	693.7	710.4
15°	175.4	192.1	221.0	270.1	339.4	426.2	526.2	613.0	674.4	695.5	707.7
17.5°	154.4	158.7	177.2	221.9	297.3	394.7	502.5	606.0	676.2	695.5	702.5
20°	145.6	145.6	149.1	172.8	246.4	361.3	485.0	601.6	678.8	698.1	697.2
22.5°	137.7	139.4	139.4	144.7	187.7	314.8	466.6	599.9	686.7	701.6	689.3
25°	130.7	133.3	133.3	135.1	147.3	259.6	443.8	603.4	700.7	708.6	684.1
27.5°	124.5	127.2	127.2	128.9	131.6	192.9	406.1	604.3	716.5	717.4	677.0
30°	118.4	121.0	122.8	122.8	124.5	142.1	358.7	599.0	734.1	728.8	676.2
32.5°	111.4	114.9	115.8	117.5	118.4	123.7	297.3	590.2	756.0	744.6	677.0
35°	105.2	109.6	110.5	110.5	112.3	117.5	237.7	580.6	785.8	765.6	680.6
37.5°	99.1	102.6	103.5	104.4	106.1	111.4	188.6	566.5	811.2	791.9	698.1
40°	92.1	96.5	97.3	98.2	100.0	105.2	162.2	549.0	849.8	835.8	724.4
42.5°	85.1	89.5	91.2	92.1	93.0	100.0	148.2	536.7	912.1	897.2	777.9
45°	78.9	83.3	85.1	85.1	86.8	96.5	135.9	563.9	998.0	991.0	849.8
47.5°	73.7	78.1	78.9	78.9	79.8	91.2	125.4	636.7	1129.6	1111.2	962.1
50°	69.3	72.8	74.5	72.8	73.7	86.8	131.6	756.9	1298.0	1304.1	1127.0
52.5°	65.8	69.3	70.2	66.7	66.7	80.7	139.4	855.1	1512.8	1569.0	1388.3
55°	61.4	64.9	65.8	61.4	61.4	71.0	121.0	861.2	1757.5	1938.2	1728.6
57.5°	57.0	60.5	60.5	57.0	56.1	61.4	98.2	763.9	1947.0	2356.5	2194.3
60°	51.7	55.3	54.4	52.6	50.9	56.1	90.3	582.3	1921.5	2629.3	2728.4
62.5°	42.1	47.4	49.1	48.2	44.7	50.9	84.2	379.7	1662.8	2392.5	2711.7
65°	*35.1*	*39.5*	*42.1*	*42.1*	*39.5*	*56.1*	*73.7*	*200.0*	*1331.3*	*2030.3*	*2390.7*
67.5°	30.7	35.1	36.8	36.0	34.2	50.0	46.5	96.5	1020.8	1749.6	2139.9
70°	27.2	30.7	32.4	29.8	28.1	40.3	33.3	57.0	683.2	1460.2	1905.7
72.5°	21.9	25.4	27.2	24.6	21.9	29.8	25.4	37.7	444.6	1244.5	1693.5
75°	17.5	21.0	21.9	20.2	17.5	21.9	20.2	26.3	290.3	1029.6	1440.0
77.5°	13.2	14.9	16.7	15.8	13.2	15.8	14.0	18.4	165.8	722.7	1010.3
80°	10.5	11.4	11.4	11.4	10.5	9.6	9.6	12.3	74.5	356.1	527.1
82.5°	8.8	9.6	9.6	8.8	7.9	7.0	6.1	7.0	21.9	159.6	242.9
85°	7.9	8.8	7.0	6.1	5.3	4.4	2.6	2.6	6.1	25.4	47.4
87.5°	6.1	5.3	4.4	3.5	1.8	0.9	0.9	0.0	0.9	0.9	0.9
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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Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1364551
CATALOG NUMBER: GSS-SB1A-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	493.8	493.8	493.8	493.8	493.8	493.8	493.8	493.8	493.8	493.8
2.5°	559.5	568.3	574.4	579.7	577.9	573.6	564.8	558.7	557.2	556.9
5°	633.2	647.2	659.5	657.8	659.5	646.4	633.2	617.4	611.1	609.5
7.5°	694.6	712.1	727.0	725.3	720.0	705.1	683.2	659.5	648.3	645.5
10°	727.9	748.1	760.4	756.0	747.2	727.9	706.0	677.9	665.3	662.1
12.5°	734.1	747.2	744.6	742.8	741.1	731.4	714.8	689.3	676.7	673.5
15°	718.3	713.0	698.1	694.6	707.7	720.0	716.5	695.5	683.5	680.6
17.5°	692.0	664.8	637.6	634.1	656.0	690.2	717.4	705.1	693.9	691.1
20°	663.0	612.1	582.3	576.2	603.4	654.2	707.7	714.8	707.0	705.1
22.5°	628.8	569.2	537.6	534.1	554.3	613.9	693.7	725.3	721.8	720.9
25°	599.0	531.5	501.6	496.4	522.7	580.6	679.7	742.8	740.7	740.2
27.5°	574.4	504.3	472.7	469.2	494.6	552.5	662.1	757.7	764.7	766.5
30°	555.1	484.1	452.5	448.1	476.2	533.2	649.9	778.8	792.1	795.4
32.5°	540.2	472.7	442.9	440.3	470.1	525.3	642.8	800.7	828.1	834.9
35°	535.0	476.2	456.0	462.2	485.0	533.2	648.1	836.7	874.5	884.0
37.5°	546.4	514.8	528.8	544.6	553.4	570.9	672.7	894.5	943.7	955.9
40°	583.2	618.3	684.1	714.8	711.3	670.9	728.8	976.1	1046.3	1063.8
42.5°	677.0	791.1	930.5	982.2	952.4	830.5	818.2	1110.3	1190.3	1210.3
45°	816.5	999.8	1228.7	1345.3	1242.7	1033.1	959.4	1301.5	1378.7	1397.9
47.5°	955.9	1233.1	1597.0	1735.6	1533.9	1233.9	1144.5	1530.4	1599.8	1617.2
50°	1098.0	1490.9	1964.5	2149.5	1824.2	1438.3	1340.9	1812.8	1863.3	1875.9
52.5°	1244.5	1721.6	2369.7	2529.3	2127.6	1596.1	1565.5	2120.6	2150.8	2158.3
55°	1407.6	1939.9	2775.7	2904.6	2403.9	1733.8	1828.6	2442.5	2434.7	2432.8
57.5°	1625.1	2169.7	3102.8	3282.6	2654.7	1919.8	2180.2	2800.3	2649.4	2611.7
60°	2004.8	2526.7	3509.8	3705.3	2990.6	2191.6	2438.9	2792.4	2523.0	2455.6
62.5°	2445.1	2870.4	3878.1	4043.0	3344.0	2461.8	2232.9	2345.1	2078.5	2011.8
65°	2124.1	2809.9	3889.5	4058.8	3357.2	2296.9	1650.5	1662.8	1438.3	1382.2
67.5°	1807.5	2490.7	3542.2	3675.5	2995.0	1898.7	1094.5	1084.9	943.8	908.6
70°	1609.3	2182.0	3052.9	2938.0	2517.9	1604.9	727.0	602.5	514.8	492.9
72.5°	1446.2	1731.2	2474.0	2025.0	2089.0	1305.9	462.2	410.4	342.4	325.4
75°	1309.4	1432.1	1543.5	1399.7	1483.9	1076.1	392.0	316.6	259.1	244.7
77.5°	1041.9	1114.7	913.8	887.5	1039.3	765.6	194.7	133.3	116.5	112.3
80°	620.0	527.1	518.3	591.1	692.0	397.3	119.3	73.7	66.7	64.9
82.5°	375.4	190.3	207.0	261.3	368.3	180.7	71.0	31.6	28.1	27.2
85°	63.1	51.7	79.8	76.3	71.9	38.6	19.3	8.8	8.1	7.9
87.5°	1.8	2.6	3.5	4.4	4.4	4.4	4.4	4.4	5.1	5.3
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

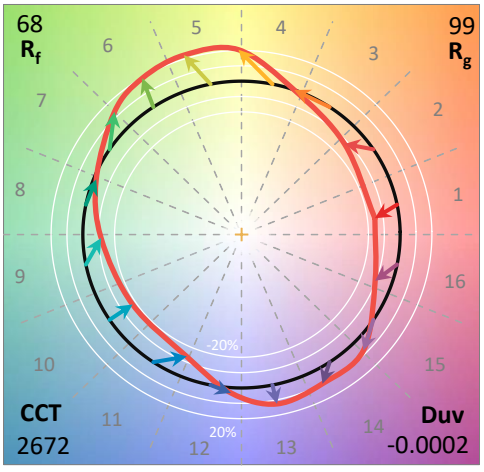
Test Information

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

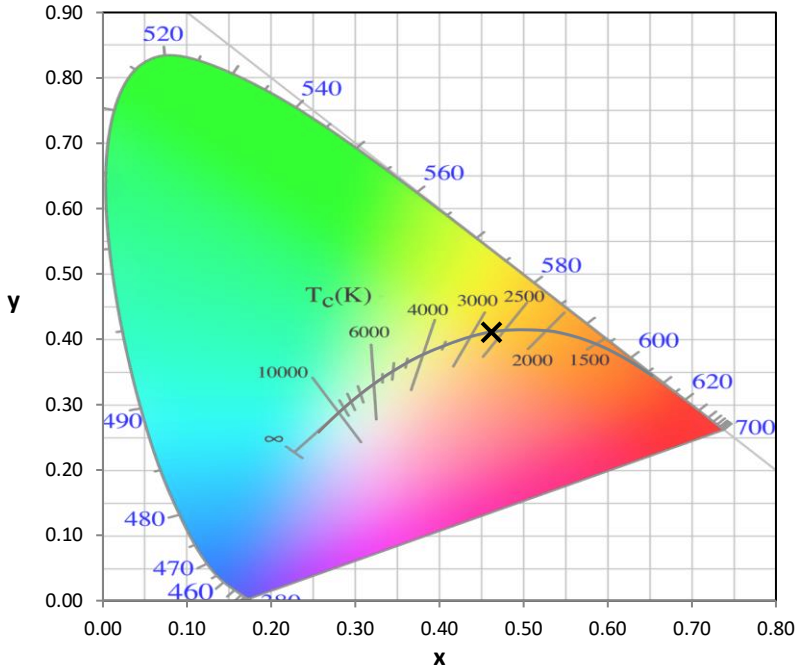
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	25.2

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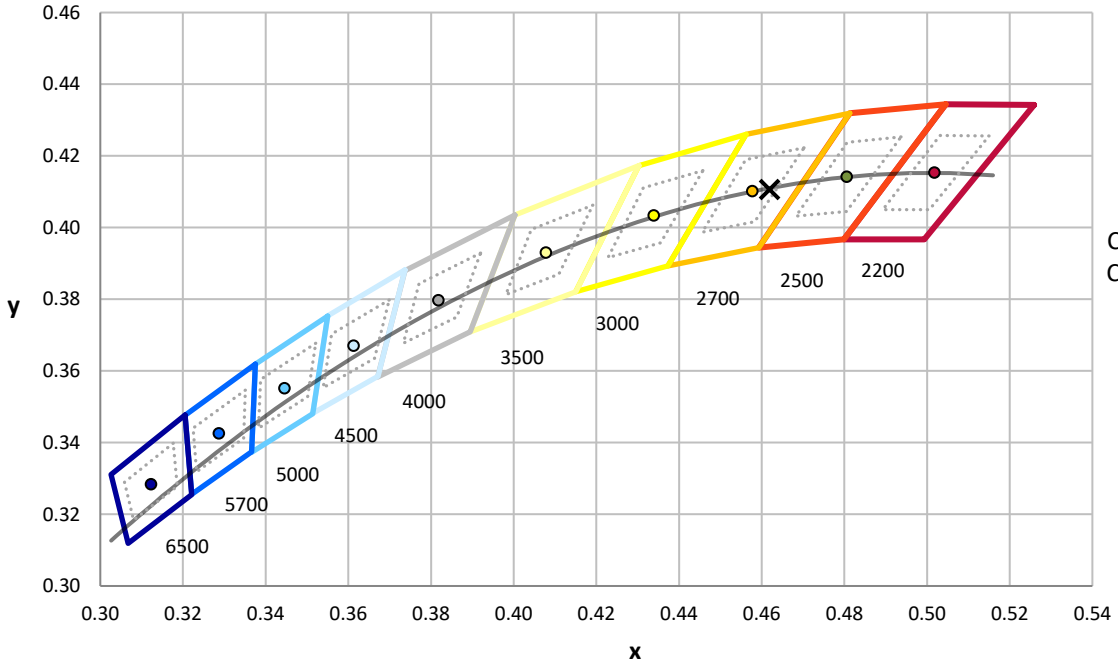
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

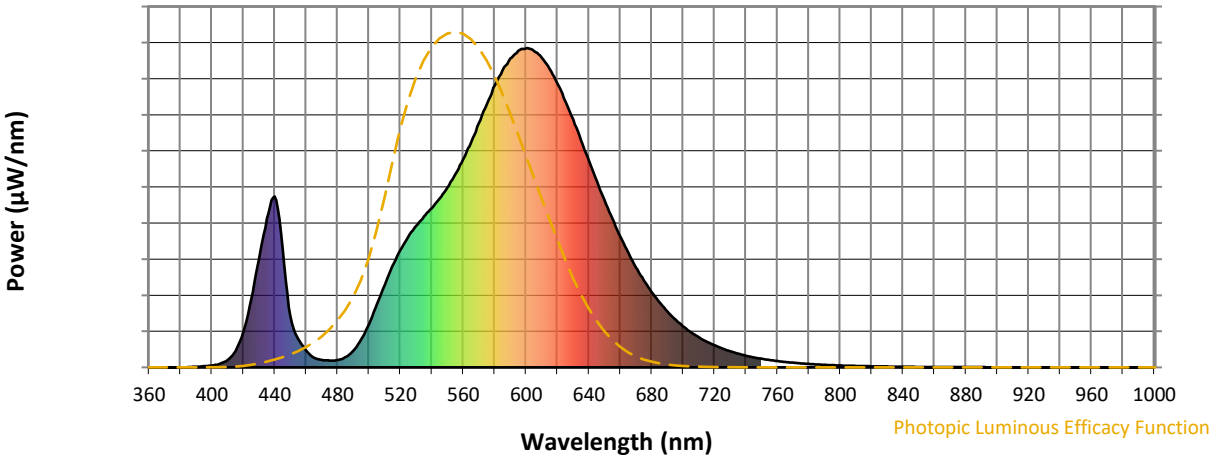


CCT = 2672K
CIE x = 0.4619
CIE y = 0.4106
Duv = -0.0002

Point lies inside the ANSI 2700K 4-step quadrangle

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Photopic Flux vs. Wavelength

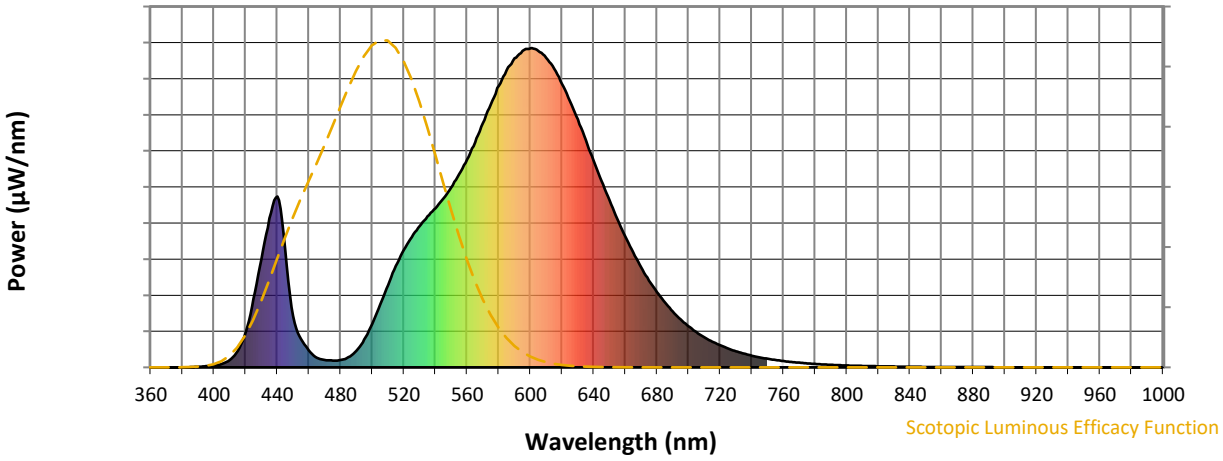


Photopic Lumens: NR

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			

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Scotopic Flux vs. Wavelength

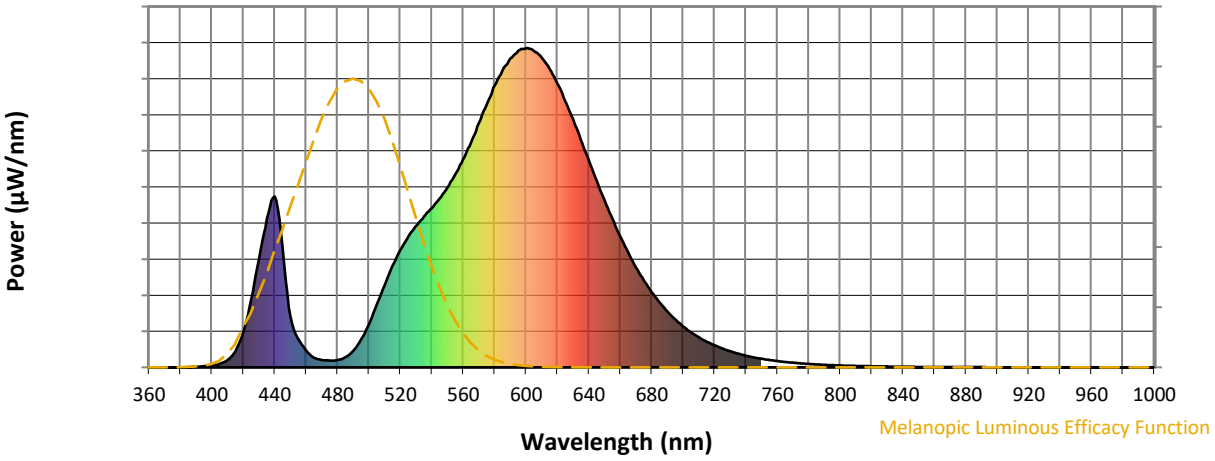


Scotopic Lumens: NR **S/P: 1.02**

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			

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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			

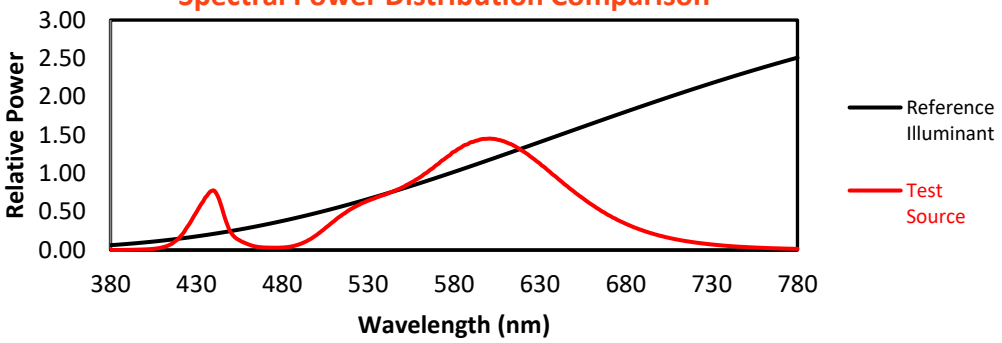
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TM-30-18

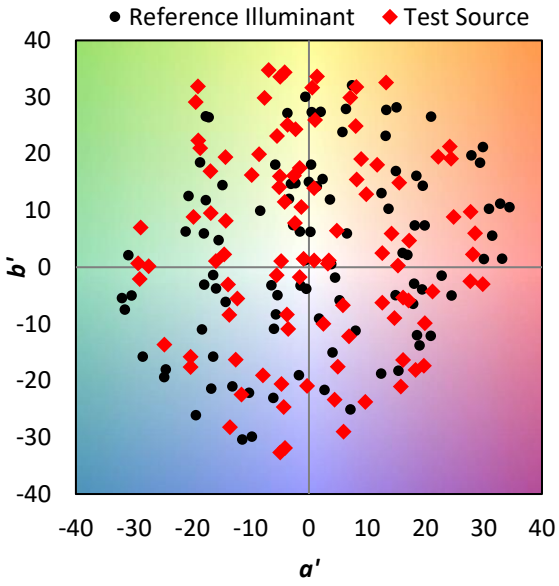
Summary

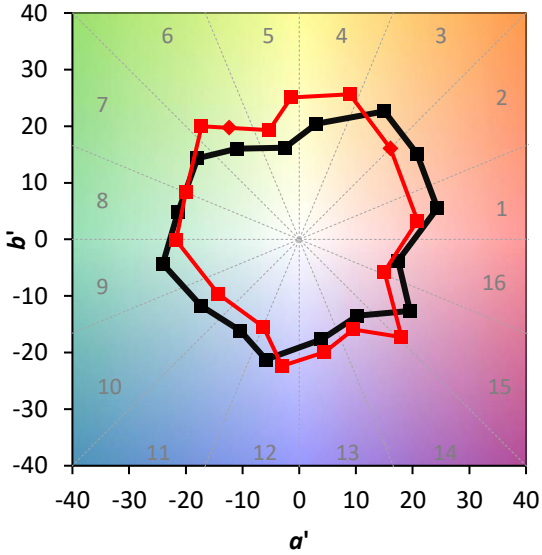
R_f = 67.9
R_g = 98.6
CIE R_a = 71.1
R_9 = -27.8

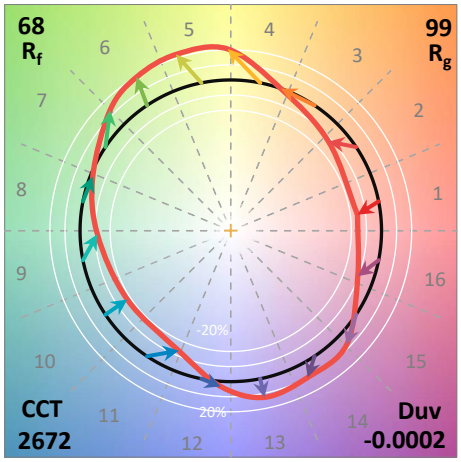
Spectral Power Distribution Comparison

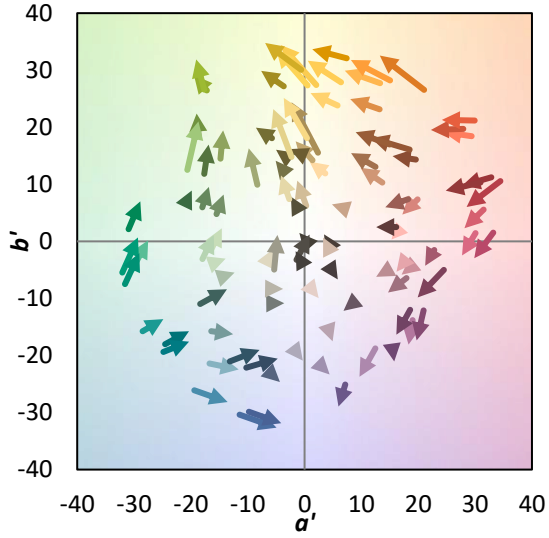


Color Vector Graphics







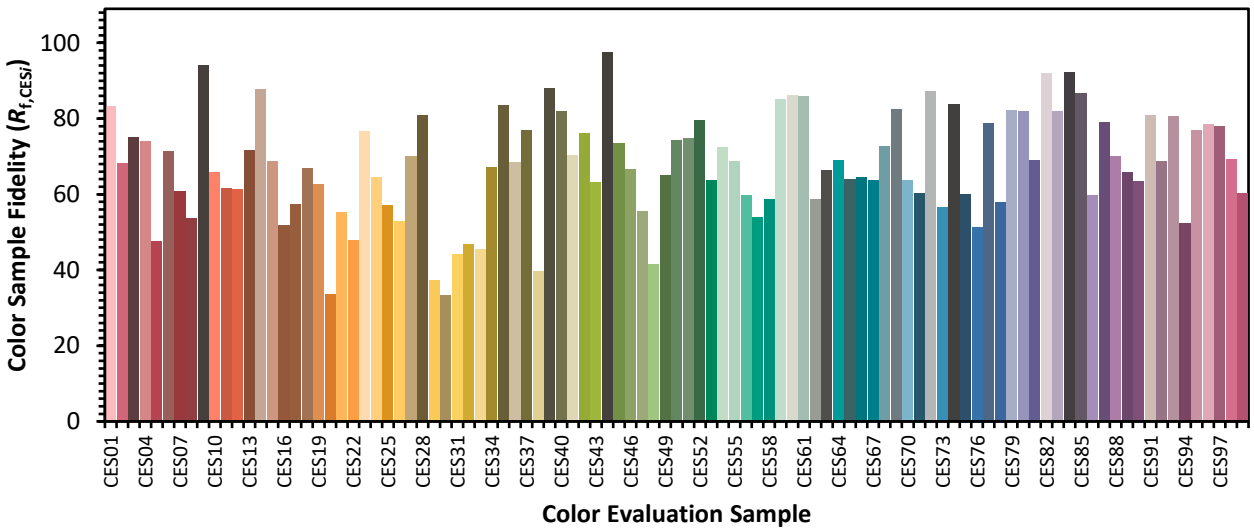


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TM-30-18

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

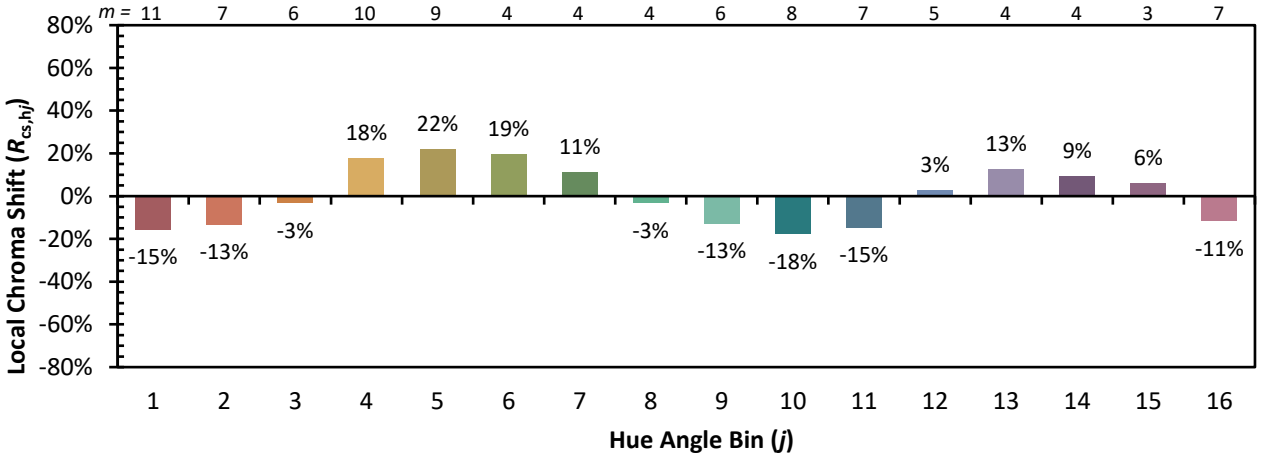
CES01 = 86	CES26 = 53	CES51 = 75	CES76 = 51
CES02 = 63	CES27 = 70	CES52 = 80	CES77 = 79
CES03 = 31	CES28 = 81	CES53 = 64	CES78 = 58
CES04 = 71	CES29 = 37	CES54 = 73	CES79 = 82
CES05 = 50	CES30 = 33	CES55 = 69	CES80 = 82
CES06 = 52	CES31 = 44	CES56 = 60	CES81 = 69
CES07 = 42	CES32 = 47	CES57 = 54	CES82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

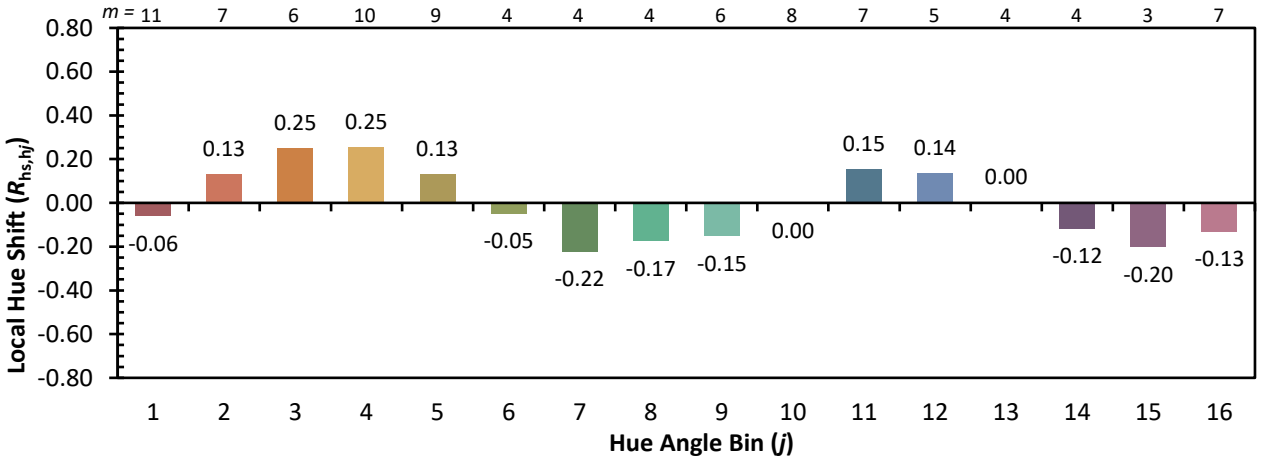


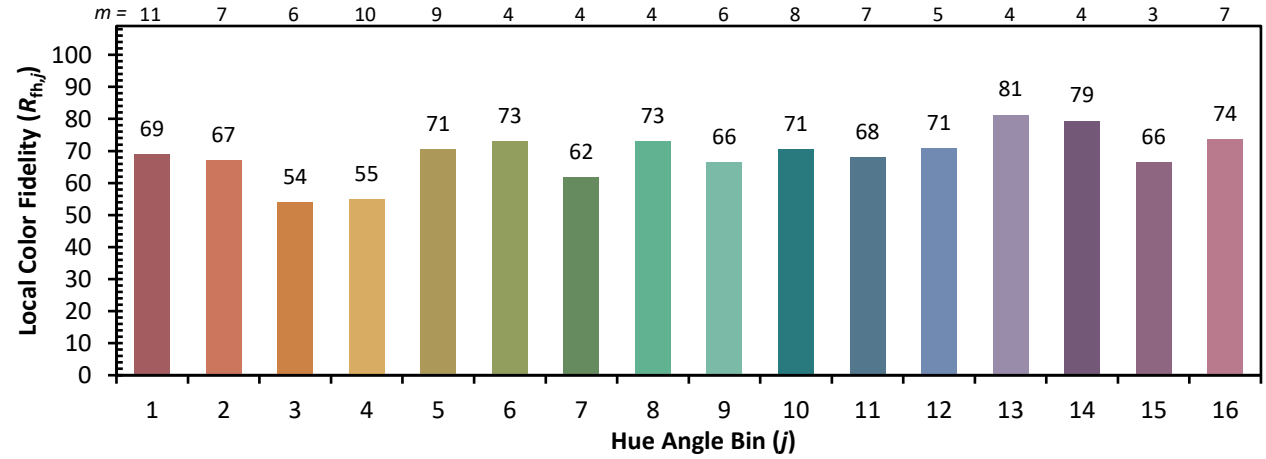
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Color Rendition by Hue-Angle Bin



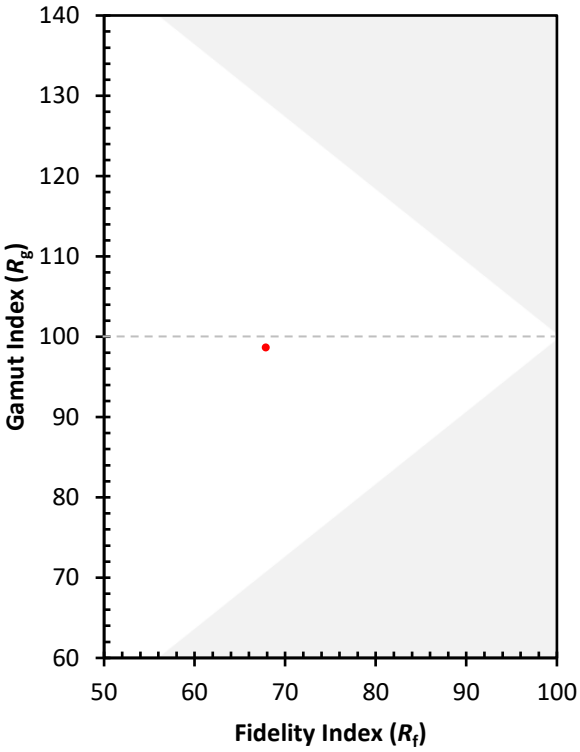


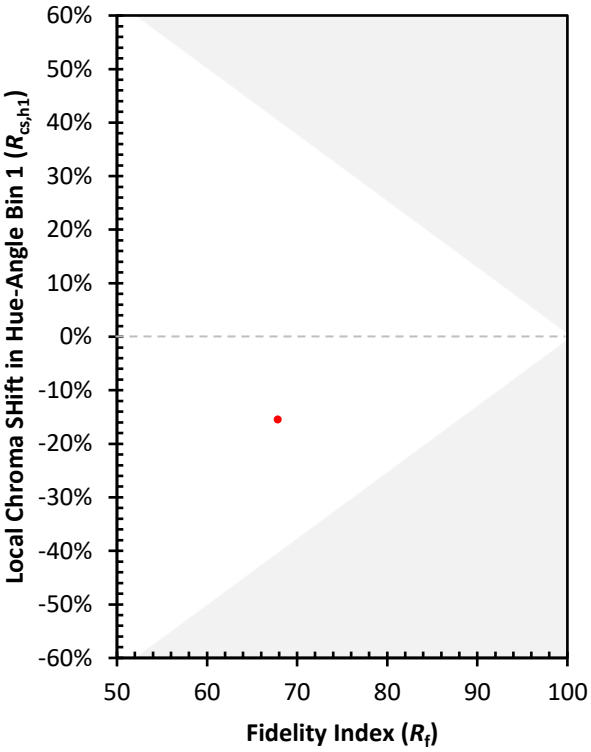


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Measure Comparisons





(END OF REPORT)