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: P979149

Luminaire Tested: **WPMLED26S-80W-3500K**

Issue Date: 03/31/2025

Report Generated By 670245763

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P979149
Test Lab:	Cooper Lighting Solutions
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	LUMARK
Catalog Number:	WPMLED26S-80W-3500K
Description:	LUMARK WALL PACK LED MEDIUM 80CRI CCT AND LUMEN SELECTIVE FIXTURE OPERATING @80W-3500K
Light Source:	3500K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	12662.6 lumens
Efficiency:	N/A
Efficacy:	151.3 lumens/watt
Luminous Opening:	Rectangular w/ Sides (W: 0.86' x L: 0.17' x H: 0.58')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U3 - G5

Input Watts (W):	83.7
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:	28.75 FT

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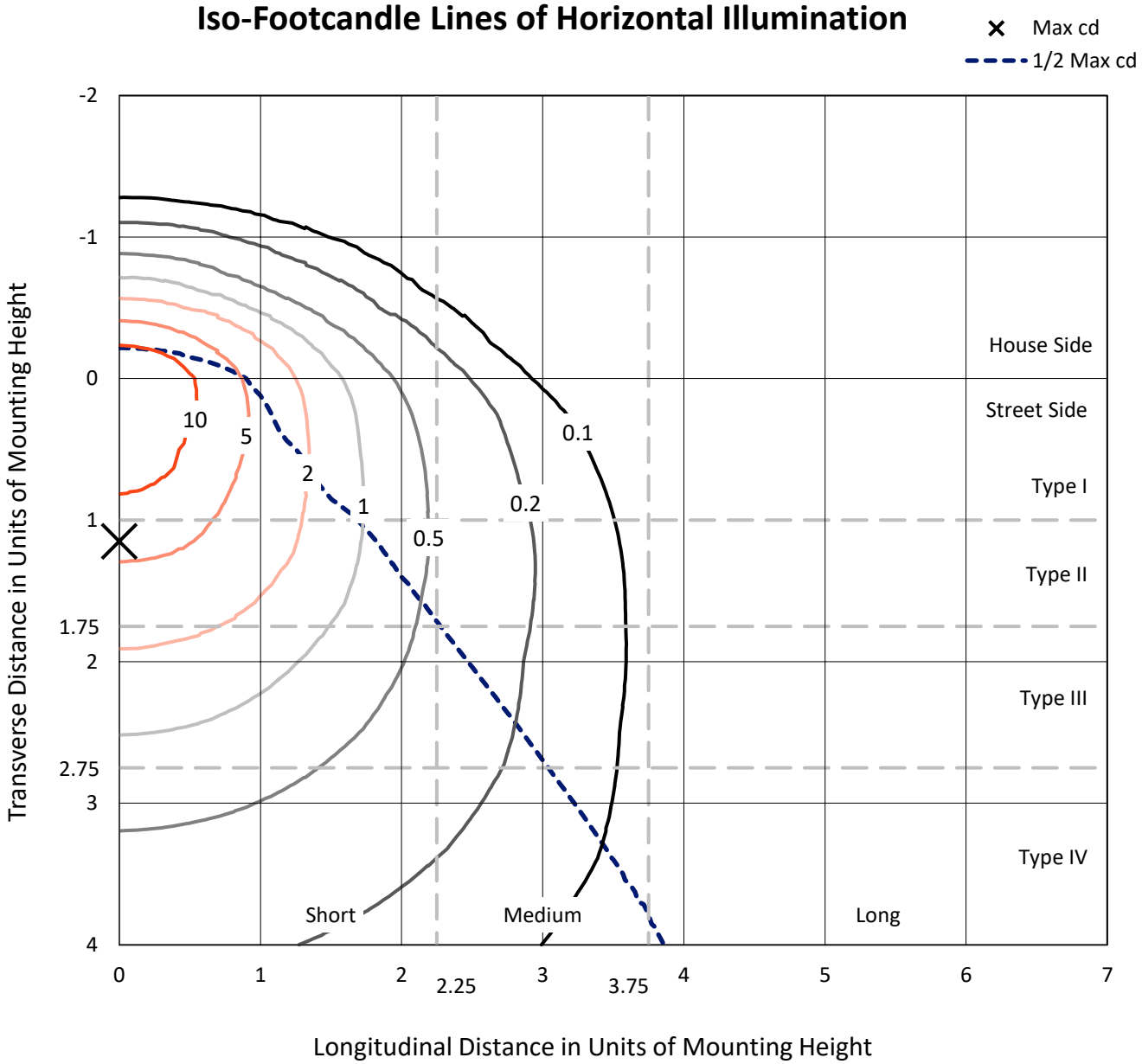
Iso-Footcandle Lines of Horizontal Illumination



Based on 15 foot mounting height. Maximum calculated value = 17.3 fc
Type IV - Short - N/A

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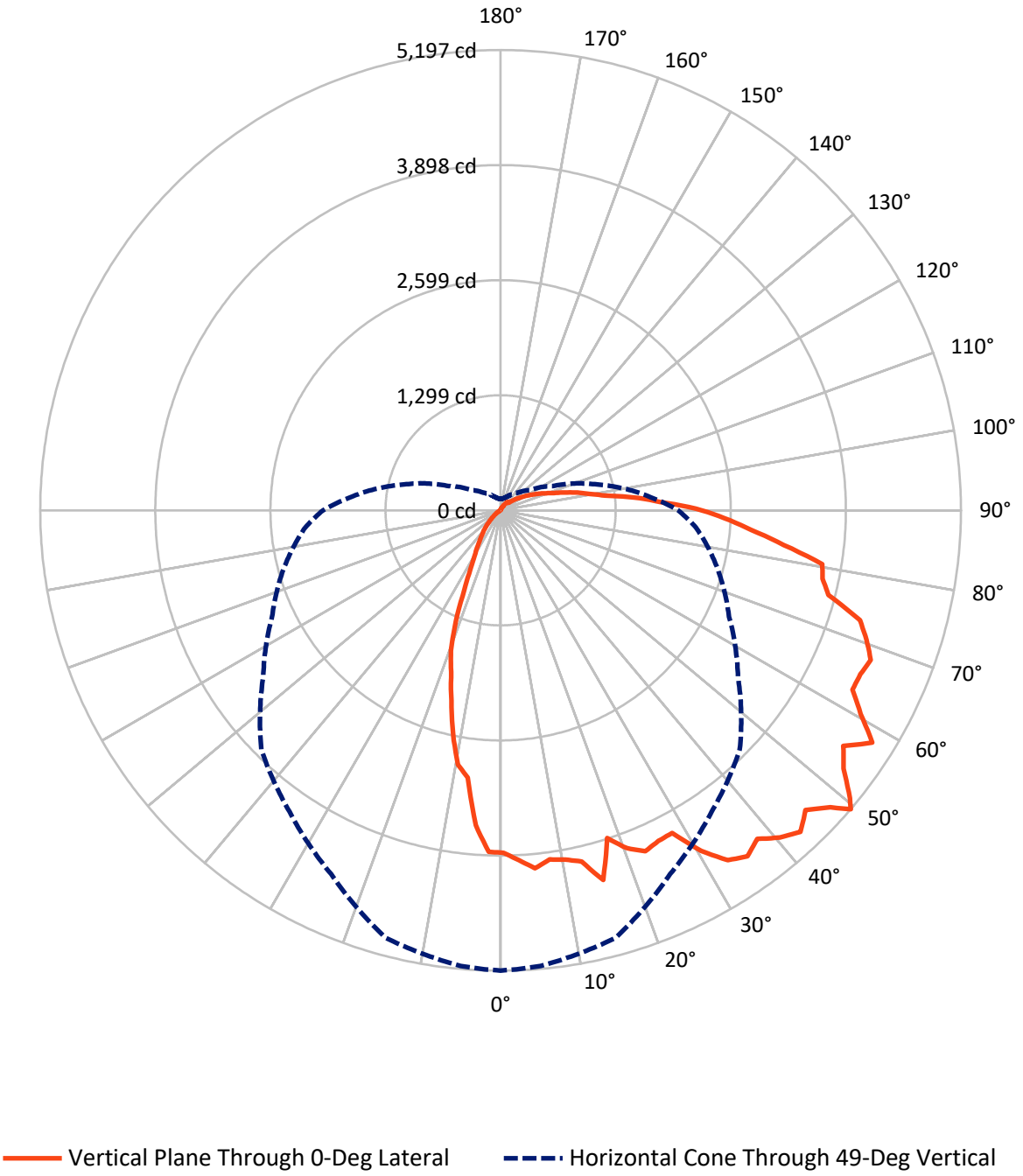
Luminous Intensity Polar Plot



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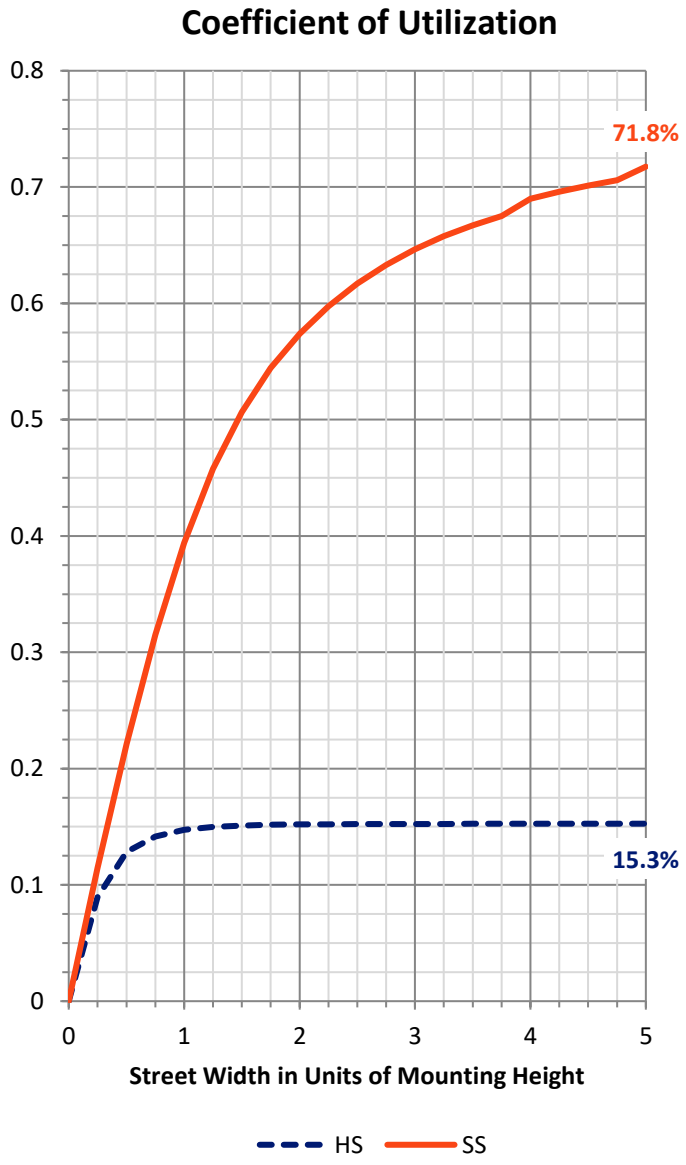
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1955.7	17.5	1973.2
	% Fixture	15.4	0.1	15.6
Street Side	Lumens	9754.6	934.8	10689.4
	% Fixture	77.0	7.4	84.4
Total	Lumens	11710.3	952.3	12662.6
	% Fixture	92.5	7.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.4	2.8
10°-20°	957.4	7.6
20°-30°	1330.3	10.5
30°-40°	1581.5	12.5
40°-50°	1734.7	13.7
50°-60°	1749.9	13.8
60°-70°	1636.6	12.9
70°-80°	1397.3	11.0
80°-90°	963.2	7.6
90°-100°	486.4	3.8
100°-110°	232.1	1.8
110°-120°	119.1	0.9
120°-130°	60.5	0.5
130°-140°	32.2	0.3
140°-150°	15.9	0.1
150°-160°	4.9	0.0
160°-170°	1.0	0.0
170°-180°	0.1	0.0
0°-90°	11710.3	92.5
0°-180°	12662.6	100.0



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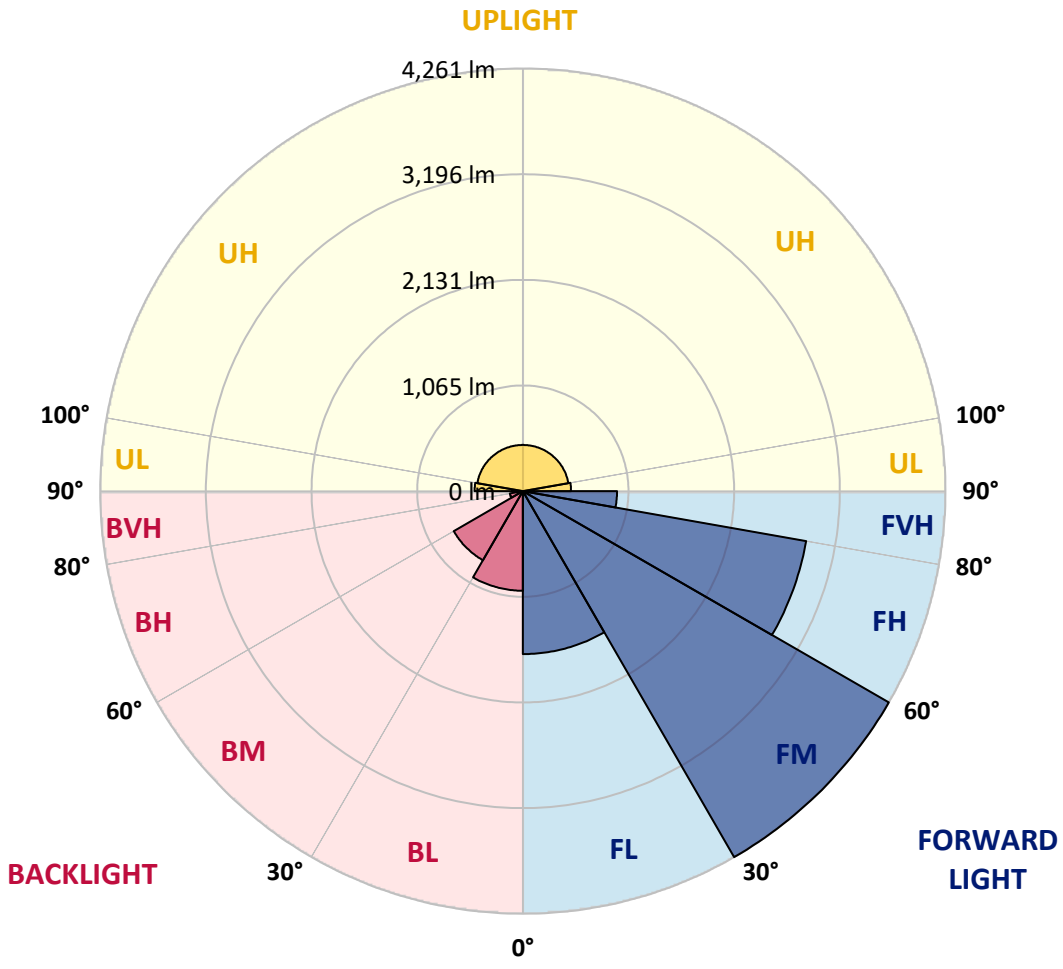
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1642.9	13.0			
FM	(30°-60°)	4261.1	33.7			
FH	(60°-80°)	2900.9	22.9			G2/5000
FVH	(80°-90°)	949.7	7.5			G5
BL	(0°-30°)	1004.3	7.9	B3/2500		
BM	(30°-60°)	805.0	6.4	B1/1000		
BH	(60°-80°)	133.0	1.1	B1/500		G1/500
BVH	(80°-90°)	13.4	0.1			G1/100
UL	(90°-100°)	486.4	3.8		U3/500	
UH	(100°-180°)	465.9	3.7		U3/500	

BUG Rating: B3-U3-G5
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3867.5	3867.5	3867.5	3867.5	3867.5	3867.5	3867.5	3867.5	3867.5	3867.5	3867.5
2.5°	3954.0	3967.4	3951.3	3951.3	3946.0	3932.6	3939.7	3919.2	3878.2	3856.8	3880.0
5°	4059.3	4054.8	4072.6	4088.7	4074.4	3995.0	3965.6	3902.3	3929.9	3855.0	3863.9
7.5°	3980.8	3971.0	3994.1	4062.8	4072.6	4055.7	4066.4	3969.2	3929.9	3836.3	3847.9
10°	4009.3	4009.3	3958.5	3929.0	3930.8	3987.0	4043.2	4068.2	3903.2	3840.7	3818.4
12.5°	4069.1	4065.5	4033.4	4017.3	3961.1	3904.1	3970.1	3997.7	3917.4	3828.2	3778.3
15°	4331.3	4304.5	4304.5	4160.1	4027.1	3963.8	3860.4	3944.2	3921.0	3791.7	3728.3
17.5°	3890.7	3898.7	3921.0	4106.5	4243.9	4008.4	3856.8	3841.6	3858.6	3736.4	3665.0
20°	4073.5	4079.8	3956.7	3817.5	3960.3	4154.7	3872.8	3687.3	3761.3	3645.4	3583.0
22.5°	4180.6	4177.9	4182.3	4135.1	3800.6	3945.1	3939.7	3640.0	3665.9	3560.7	3499.1
25°	4136.0	4115.5	4103.0	4114.6	4114.6	3704.3	3958.5	3630.2	3592.8	3465.2	3391.2
27.5°	4125.3	4118.1	4061.9	4072.6	4023.6	3870.2	3693.6	3621.3	3500.0	3351.1	3298.4
30°	4463.3	4467.8	4367.9	4083.3	3944.2	3901.4	3500.9	3647.2	3344.8	3247.6	3202.1
32.5°	4708.6	4704.1	4617.6	4373.2	3949.6	3772.1	3592.8	3569.6	3216.4	3160.2	3096.8
35°	4798.7	4786.2	4633.7	4517.7	4202.9	3723.9	3663.2	3393.0	3145.9	3071.0	2995.2
37.5°	4706.8	4718.4	4603.3	4497.2	4235.0	3797.9	3523.2	3220.8	3087.9	2965.7	2850.7
40°	4858.4	4848.6	4795.1	4484.7	4152.9	3913.0	3401.9	3170.0	3061.2	2841.7	2707.1
42.5°	4962.8	4933.4	4922.7	4611.4	4143.1	3827.4	3395.6	3229.7	3005.0	2687.4	2518.9
45°	4826.3	4852.2	4870.0	4585.5	4288.5	3723.0	3491.1	3118.3	2832.8	2518.0	2312.8
47.5°	5008.3	4978.9	4770.1	4621.2	4181.5	3755.1	3358.2	2921.1	2655.3	2333.3	2131.8
49°	5197.4	5165.3	5000.3	4530.2	4154.7	3818.4	3270.8	2846.2	2534.0	2213.8	2006.0
50°	5110.0	5101.1	5063.6	4653.3	4186.8	3775.6	3231.5	2786.4	2460.0	2143.4	1931.1
52.5°	4846.9	4821.9	4876.3	4738.9	4237.6	3639.2	3178.9	2765.9	2292.3	1965.0	1765.2
55°	4695.2	4710.4	4695.2	4546.3	4301.9	3657.9	3161.1	2623.2	2160.3	1819.6	1612.6
57.5°	4947.6	4936.9	4745.2	4387.5	4195.7	3731.0	2996.9	2412.7	2004.2	1688.5	1473.5
60°	4669.4	4639.0	4713.1	4508.8	3994.1	3660.6	2881.9	2284.3	1866.0	1562.7	1329.0
62.5°	4458.0	4474.0	4354.5	4281.4	4030.7	3512.5	2848.0	2242.4	1757.1	1420.0	1181.8
65°	4463.3	4453.5	4392.0	4085.1	3825.6	3420.6	2737.4	2111.2	1689.4	1279.1	1040.9
67.5°	4507.0	4502.6	4379.5	4099.4	3683.7	3258.3	2565.2	1993.5	1535.0	1154.2	898.2
70°	4382.1	4359.8	4294.7	4050.3	3663.2	3114.7	2435.0	1943.6	1390.5	1021.3	731.4
72.5°	4242.1	4208.2	4113.7	3896.9	3574.0	3018.4	2257.5	1807.1	1302.2	861.6	570.8
75°	3822.0	3830.9	3834.5	3651.6	3357.3	2869.4	2095.2	1582.3	1160.4	700.2	434.4
77.5°	3715.9	3676.6	3566.0	3386.7	3156.6	2695.5	1930.2	1401.3	1040.0	545.0	316.6
80°	3681.1	3636.5	3534.8	3245.8	2936.3	2496.6	1766.1	1238.0	878.6	403.2	222.1
82.5°	3222.6	3219.0	3148.6	3024.6	2666.0	2222.7	1569.8	1073.0	706.4	290.8	151.6
85°	2840.0	2841.7	2766.8	2574.2	2384.2	1955.2	1375.4	917.8	562.8	206.9	102.6
87.5°	2529.6	2544.7	2460.0	2273.6	2031.9	1693.8	1169.3	770.6	432.6	140.9	68.7
90°	2208.5	2200.4	2126.4	1965.9	1756.2	1400.4	968.7	619.9	324.7	95.4	48.2
92.5°	1802.6	1780.3	1731.3	1607.3	1469.9	1172.9	781.3	478.1	245.3	69.6	41.0
95°	1516.3	1515.4	1440.5	1347.7	1185.4	966.0	639.5	384.4	197.1	58.9	41.0
97.5°	1191.6	1211.3	1161.3	1109.6	978.5	783.1	528.9	314.9	158.8	55.3	42.8
100°	1018.6	1015.0	968.7	891.9	787.6	635.1	432.6	264.9	133.8	55.3	44.6
102.5°	891.1	899.1	867.0	784.0	662.7	516.4	356.8	223.9	114.2	58.0	46.4
105°	754.6	747.5	721.6	662.7	578.0	434.4	298.8	187.3	99.9	58.9	47.3
107.5°	632.4	639.5	618.1	561.9	478.1	367.5	253.3	157.9	90.1	58.9	47.3

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	*549.4*	550.3	523.6	473.6	400.5	311.3	213.2	135.6	84.7	58.0	46.4
112.5°	*485.2*	480.8	462.9	405.8	338.9	256.9	182.0	117.7	80.3	56.2	45.5
115°	*416.5*	415.6	394.2	349.6	285.4	221.2	156.1	103.5	76.7	55.3	43.7
117.5°	*362.1*	361.2	342.5	297.9	242.6	190.0	136.5	92.8	73.1	51.7	41.0
120°	*317.5*	312.2	296.1	254.2	207.8	163.2	119.5	84.7	68.7	47.3	37.5
122.5°	*265.8*	261.3	248.9	214.1	176.6	141.8	107.0	77.6	62.4	42.8	33.0
125°	*223.9*	222.1	207.8	180.2	153.4	125.8	95.4	70.5	56.2	37.5	29.4
127.5°	*185.5*	182.8	171.3	154.3	134.7	111.5	86.5	65.1	49.9	33.0	25.9
130°	*153.4*	152.5	145.4	135.6	121.3	101.7	79.4	59.8	44.6	29.4	23.2
132.5°	*130.2*	128.4	127.5	123.1	111.5	92.8	72.2	55.3	39.2	25.9	20.5
135°	*117.7*	116.8	119.5	116.0	102.6	83.0	65.1	50.8	34.8	22.3	17.8
137.5°	*117.7*	117.7	117.7	109.7	91.9	73.1	58.0	45.5	30.3	19.6	15.2
140°	*120.4*	119.5	112.4	99.0	80.3	64.2	50.8	39.2	25.0	16.1	12.5
142.5°	*107.0*	104.4	97.2	83.8	67.8	55.3	44.6	33.0	20.5	13.4	10.7
145°	*86.5*	85.6	79.4	68.7	57.1	47.3	38.4	27.7	16.1	10.7	8.0
147.5°	*66.0*	66.0	62.4	56.2	48.2	41.0	33.0	22.3	12.5	8.9	7.1
150°	*52.6*	52.6	49.9	45.5	40.1	33.9	25.9	16.9	8.9	7.1	6.2
152.5°	*42.8*	42.8	40.1	36.6	33.0	27.7	19.6	11.6	8.0	6.2	5.4
155°	*33.0*	33.0	32.1	29.4	25.9	20.5	13.4	8.0	6.2	4.5	4.5
157.5°	*26.8*	25.9	24.1	22.3	19.6	14.3	8.9	6.2	5.4	4.5	3.6
160°	*19.6*	19.6	18.7	16.1	13.4	8.9	6.2	5.4	4.5	3.6	2.7
162.5°	*14.3*	14.3	13.4	10.7	8.9	6.2	5.4	4.5	3.6	3.6	2.7
165°	*8.9*	8.9	8.0	7.1	5.4	5.4	4.5	3.6	3.6	2.7	2.7
167.5°	*6.2*	5.4	5.4	4.5	4.5	3.6	3.6	3.6	3.6	3.6	2.7
170°	*2.7*	2.7	2.7	3.6	3.6	3.6	3.6	3.6	3.6	3.6	2.7
172.5°	*0.9*	0.9	1.8	2.7	2.7	3.6	3.6	3.6	3.6	3.6	2.7
175°	*0.0*	0.9	1.8	1.8	2.7	3.6	3.6	3.6	3.6	2.7	2.7
177.5°	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	*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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3867.5	3867.5	3867.5	3867.5	3867.5	3867.5	3867.5	3867.5	3867.5	3867.5
2.5°	3880.9	3888.9	3879.1	3840.7	3823.8	3836.3	3848.8	3847.9	3853.2	3855.9
5°	3884.4	3838.1	3831.8	3824.7	3772.1	3675.7	3624.0	3586.5	3566.0	3564.2
7.5°	3863.0	3824.7	3787.2	3638.3	3454.5	3315.4	3188.7	3124.5	3052.2	3039.8
10°	3843.4	3818.4	3616.0	3360.0	3102.2	2989.8	2940.8	2926.5	2904.2	2910.4
12.5°	3766.7	3712.3	3401.9	3063.8	2921.1	2870.3	2762.4	2645.5	2559.9	2583.1
15°	3715.9	3570.5	3171.8	2902.4	2803.4	2551.9	2363.7	2262.9	2221.0	2219.2
17.5°	3639.2	3387.6	2933.6	2787.3	2478.7	2233.4	2105.0	2001.5	1925.7	1906.1
20°	3542.8	3179.8	2803.4	2538.5	2208.5	1979.2	1829.4	1742.9	1695.6	1681.3
22.5°	3448.3	3015.7	2654.4	2250.4	1959.6	1748.2	1578.7	1429.8	1346.0	1346.0
25°	3336.8	2811.4	2459.1	2026.5	1725.9	1498.5	1262.1	1078.4	996.3	983.8
27.5°	3203.9	2632.1	2229.9	1800.8	1498.5	1181.8	953.5	814.3	761.7	753.7
30°	3064.7	2468.9	2015.8	1594.8	1241.6	922.3	743.9	650.2	605.6	598.5
32.5°	2924.7	2325.3	1816.9	1381.6	990.1	729.6	595.8	531.6	500.4	502.2
35°	2752.6	2161.2	1618.9	1174.7	795.6	594.0	502.2	448.7	418.3	414.8
37.5°	2600.9	1973.0	1412.8	969.5	637.7	493.2	416.5	380.9	357.7	351.4
40°	2423.4	1786.6	1205.0	779.6	531.6	418.3	357.7	317.5	296.1	297.9
42.5°	2228.1	1570.7	1030.2	627.0	449.5	356.8	298.8	263.1	244.4	245.3
45°	2017.6	1390.5	870.5	518.2	377.3	297.0	243.5	210.5	192.7	190.9
47.5°	1812.4	1216.6	725.2	436.2	314.9	243.5	194.4	164.1	151.6	150.7
49°	*1700.9*	*1127.4*	*645.8*	*396.9*	*283.6*	*217.6*	*169.5*	*141.8*	*129.3*	*128.4*
50°	1630.5	1066.8	598.5	372.8	263.1	199.8	155.2	130.2	115.1	115.1
52.5°	1478.9	918.7	491.5	321.1	219.4	160.6	120.4	99.9	91.9	90.1
55°	1317.4	777.8	417.4	269.4	182.0	126.7	93.7	75.8	66.9	64.2
57.5°	1165.8	650.2	359.5	226.6	148.1	98.1	68.7	52.6	46.4	45.5
60°	1023.1	537.8	310.4	191.8	118.6	73.1	48.2	33.9	28.5	28.5
62.5°	890.2	440.6	264.9	160.6	91.9	51.7	27.7	17.8	16.9	17.8
65°	746.6	368.4	225.7	130.2	67.8	33.0	10.7	4.5	4.5	4.5
67.5°	607.4	306.8	190.9	103.5	47.3	15.2	0.0	0.0	0.0	0.0
70°	481.7	256.9	159.7	82.1	30.3	3.6	0.0	0.0	0.0	0.0
72.5°	369.3	214.1	133.8	62.4	16.9	0.0	0.0	0.0	0.0	0.0
75°	280.1	173.0	107.9	46.4	6.2	0.0	0.0	0.0	0.0	0.0
77.5°	206.0	137.4	86.5	32.1	2.7	0.0	0.0	0.0	0.0	0.0
80°	153.4	107.9	66.9	23.2	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	112.4	85.6	50.8	16.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	79.4	68.7	40.1	11.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	58.9	55.3	33.0	8.9	0.0	0.0	0.0	0.0	0.0	0.0
90°	46.4	45.5	25.9	6.2	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	40.1	38.4	22.3	4.5	0.0	0.0	0.0	0.0	0.0	0.0
95°	37.5	33.9	18.7	4.5	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	37.5	30.3	16.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0
100°	38.4	27.7	13.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	38.4	25.9	12.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0
105°	38.4	24.1	10.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	38.4	22.3	8.9	1.8	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: P979149
CATALOG NUMBER: WPMLED26S-80W-3500K

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	37.5	20.5	8.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	35.7	18.7	5.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0
115°	34.8	16.9	4.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	32.1	15.2	4.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0
120°	28.5	13.4	3.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	25.0	11.6	3.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
125°	22.3	9.8	3.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	19.6	8.9	3.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
130°	16.9	8.0	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	15.2	7.1	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
135°	13.4	6.2	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	11.6	5.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	9.8	4.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	8.0	3.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	7.1	3.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	6.2	3.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	5.4	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	4.5	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	3.6	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	2.7	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	2.7	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	2.7	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	2.7	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	2.7	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	2.7	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	2.7	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	1.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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

Lumark

Report Number: SP1-2407-168-2

Test Date: 08/08/2024

Luminaire Tested: LSDL-92S-100W 3500k

Data in this report applies to families of products including LSDL-92S-100W 3500k.

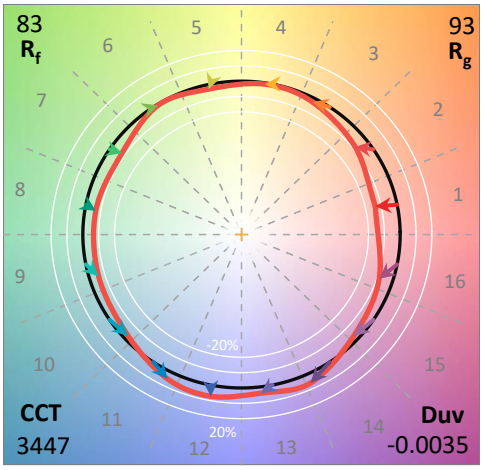
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-168-2
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	08/12/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Lumark
Catalog Number:	**LSDL-92S-100W 3500k**
Description:	Lumark Wallpack 100W

Spectral Parameters

CCT (K):	3447	CRI (Ra):	81.3		
CIE u':	0.2387	R1:	80.7	R9:	-0.6
CIE v':	0.5076	R2:	93.3	R10:	84.3
Duv:	-0.0035	R3:	92.2	R11:	76.0
CIE x:	0.4046	R4:	77.2	R12:	69.4
CIE y:	0.3824	R5:	81.3	R13:	84.3
CIE z:	0.2130	R6:	90.3	R14:	96.4
Peak Wavelength (nm):	597	R7:	79.5	R15:	73.7
Dominant Wavelength (nm):	582	R8:	55.9		
Purity:	36.18615				
Rf:	82.6				
Rg:	93				



Test Conditions

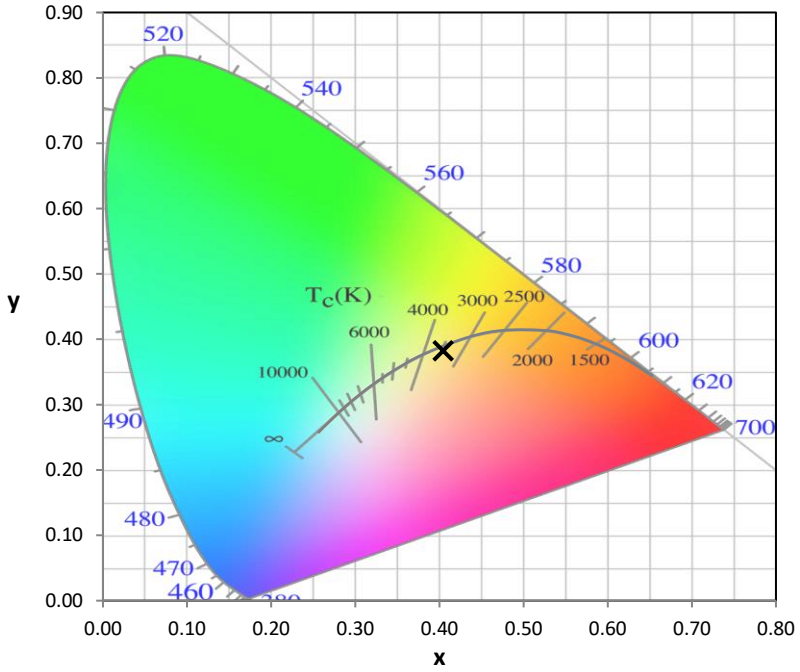
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2407-168-2

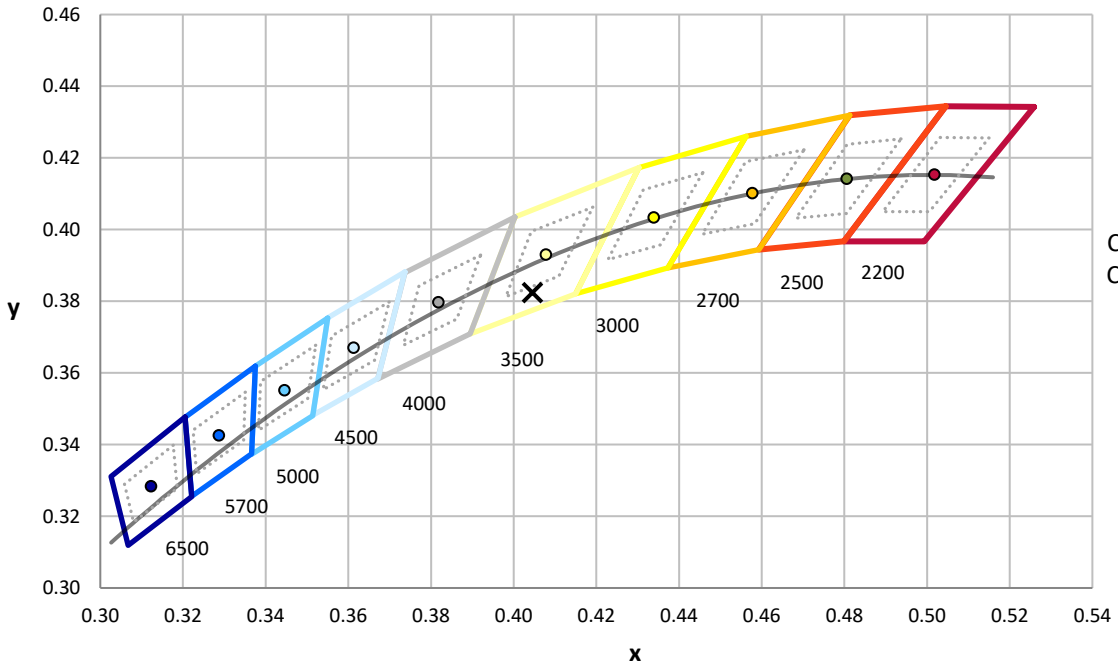
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-168-2

CIE 1931 Chromaticity Diagram



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

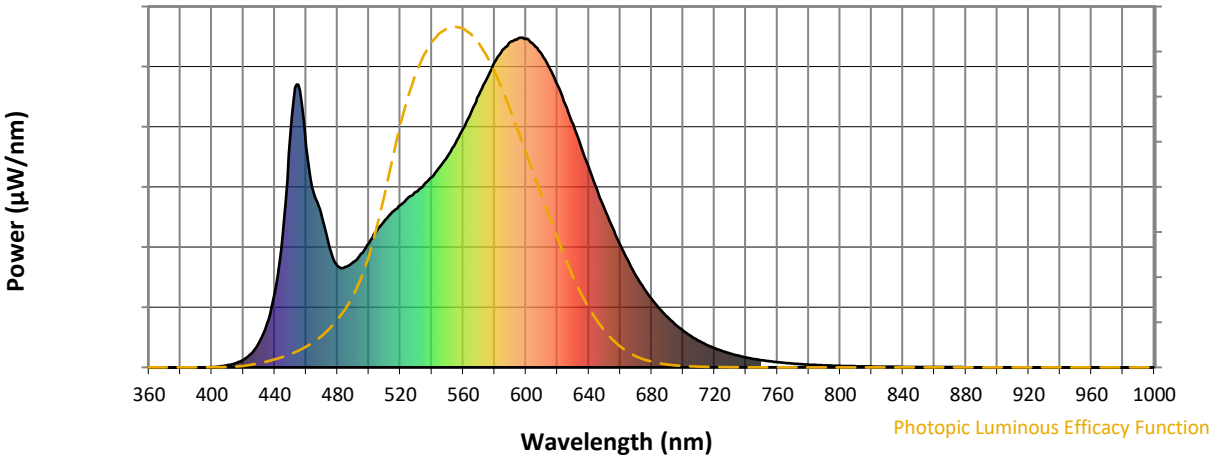


CCT = 3447K
CIE x = 0.4046
CIE y = 0.3824
Duv = -0.0035

Point lies inside the ANSI 3500K 7-step quadrangle

REPORT NUMBER: SP1-2407-168-2

Photopic Flux vs. Wavelength

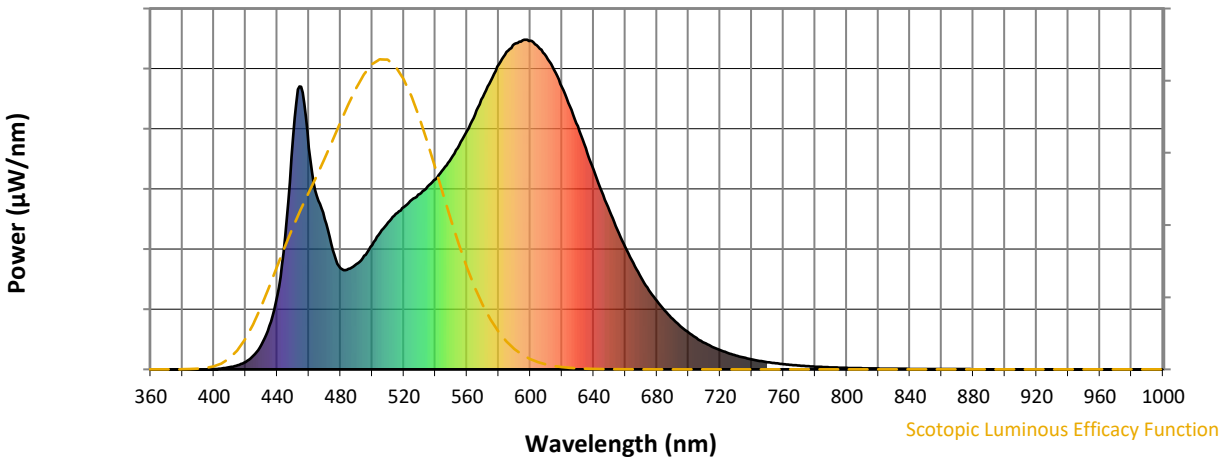


Photopic Lumens: NR

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	319	NR	620	856	NR	750	22	NR	880	1	NR
365	0	NR	495	344	NR	625	798	NR	755	18	NR	885	0	NR
370	0	NR	500	377	NR	630	738	NR	760	16	NR	890	0	NR
375	0	NR	505	415	NR	635	671	NR	765	13	NR	895	0	NR
380	0	NR	510	445	NR	640	606	NR	770	11	NR	900	0	NR
385	0	NR	515	472	NR	645	541	NR	775	10	NR	905	0	NR
390	0	NR	520	492	NR	650	481	NR	780	8	NR	910	0	NR
395	0	NR	525	514	NR	655	424	NR	785	7	NR	915	0	NR
400	1	NR	530	532	NR	660	371	NR	790	6	NR	920	0	NR
405	3	NR	535	554	NR	665	323	NR	795	5	NR	925	0	NR
410	6	NR	540	577	NR	670	278	NR	800	4	NR	930	0	NR
415	12	NR	545	608	NR	675	240	NR	805	4	NR	935	0	NR
420	23	NR	550	640	NR	680	207	NR	810	3	NR	940	0	NR
425	42	NR	555	680	NR	685	178	NR	815	3	NR	945	0	NR
430	75	NR	560	725	NR	690	154	NR	820	3	NR	950	0	NR
435	132	NR	565	774	NR	695	131	NR	825	2	NR	955	0	NR
440	225	NR	570	826	NR	700	111	NR	830	2	NR	960	0	NR
445	400	NR	575	875	NR	705	95	NR	835	2	NR	965	0	NR
450	706	NR	580	925	NR	710	80	NR	840	1	NR	970	0	NR
455	858	NR	585	963	NR	715	68	NR	845	1	NR	975	0	NR
460	672	NR	590	987	NR	720	58	NR	850	1	NR	980	0	NR
465	526	NR	595	998	NR	725	49	NR	855	1	NR	985	0	NR
470	456	NR	600	997	NR	730	42	NR	860	1	NR	990	0	NR
475	363	NR	605	978	NR	735	36	NR	865	1	NR	995	0	NR
480	307	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	305	NR	615	908	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2407-168-2

Scotopic Flux vs. Wavelength

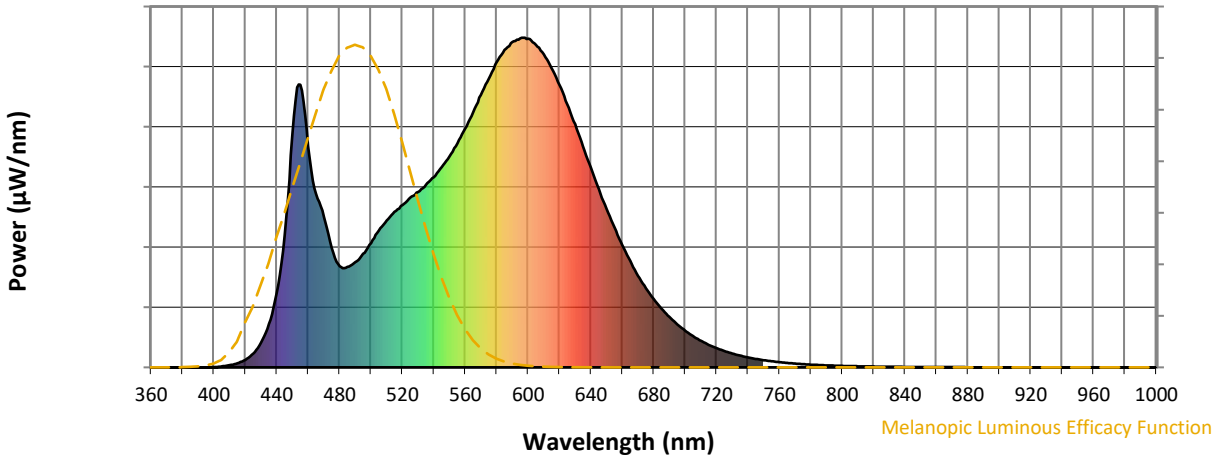


Scotopic Lumens: NR **S/P: 1.56**

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	319	NR	620	856	NR	750	22	NR	880	1	NR
365	0	NR	495	344	NR	625	798	NR	755	18	NR	885	0	NR
370	0	NR	500	377	NR	630	738	NR	760	16	NR	890	0	NR
375	0	NR	505	415	NR	635	671	NR	765	13	NR	895	0	NR
380	0	NR	510	445	NR	640	606	NR	770	11	NR	900	0	NR
385	0	NR	515	472	NR	645	541	NR	775	10	NR	905	0	NR
390	0	NR	520	492	NR	650	481	NR	780	8	NR	910	0	NR
395	0	NR	525	514	NR	655	424	NR	785	7	NR	915	0	NR
400	1	NR	530	532	NR	660	371	NR	790	6	NR	920	0	NR
405	3	NR	535	554	NR	665	323	NR	795	5	NR	925	0	NR
410	6	NR	540	577	NR	670	278	NR	800	4	NR	930	0	NR
415	12	NR	545	608	NR	675	240	NR	805	4	NR	935	0	NR
420	23	NR	550	640	NR	680	207	NR	810	3	NR	940	0	NR
425	42	NR	555	680	NR	685	178	NR	815	3	NR	945	0	NR
430	75	NR	560	725	NR	690	154	NR	820	3	NR	950	0	NR
435	132	NR	565	774	NR	695	131	NR	825	2	NR	955	0	NR
440	225	NR	570	826	NR	700	111	NR	830	2	NR	960	0	NR
445	400	NR	575	875	NR	705	95	NR	835	2	NR	965	0	NR
450	706	NR	580	925	NR	710	80	NR	840	1	NR	970	0	NR
455	858	NR	585	963	NR	715	68	NR	845	1	NR	975	0	NR
460	672	NR	590	987	NR	720	58	NR	850	1	NR	980	0	NR
465	526	NR	595	998	NR	725	49	NR	855	1	NR	985	0	NR
470	456	NR	600	997	NR	730	42	NR	860	1	NR	990	0	NR
475	363	NR	605	978	NR	735	36	NR	865	1	NR	995	0	NR
480	307	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	305	NR	615	908	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2407-168-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.22**

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	319	NR	620	856	NR	750	22	NR	880	1	NR
365	0	NR	495	344	NR	625	798	NR	755	18	NR	885	0	NR
370	0	NR	500	377	NR	630	738	NR	760	16	NR	890	0	NR
375	0	NR	505	415	NR	635	671	NR	765	13	NR	895	0	NR
380	0	NR	510	445	NR	640	606	NR	770	11	NR	900	0	NR
385	0	NR	515	472	NR	645	541	NR	775	10	NR	905	0	NR
390	0	NR	520	492	NR	650	481	NR	780	8	NR	910	0	NR
395	0	NR	525	514	NR	655	424	NR	785	7	NR	915	0	NR
400	1	NR	530	532	NR	660	371	NR	790	6	NR	920	0	NR
405	3	NR	535	554	NR	665	323	NR	795	5	NR	925	0	NR
410	6	NR	540	577	NR	670	278	NR	800	4	NR	930	0	NR
415	12	NR	545	608	NR	675	240	NR	805	4	NR	935	0	NR
420	23	NR	550	640	NR	680	207	NR	810	3	NR	940	0	NR
425	42	NR	555	680	NR	685	178	NR	815	3	NR	945	0	NR
430	75	NR	560	725	NR	690	154	NR	820	3	NR	950	0	NR
435	132	NR	565	774	NR	695	131	NR	825	2	NR	955	0	NR
440	225	NR	570	826	NR	700	111	NR	830	2	NR	960	0	NR
445	400	NR	575	875	NR	705	95	NR	835	2	NR	965	0	NR
450	706	NR	580	925	NR	710	80	NR	840	1	NR	970	0	NR
455	858	NR	585	963	NR	715	68	NR	845	1	NR	975	0	NR
460	672	NR	590	987	NR	720	58	NR	850	1	NR	980	0	NR
465	526	NR	595	998	NR	725	49	NR	855	1	NR	985	0	NR
470	456	NR	600	997	NR	730	42	NR	860	1	NR	990	0	NR
475	363	NR	605	978	NR	735	36	NR	865	1	NR	995	0	NR
480	307	NR	610	950	NR	740	30	NR	870	1	NR	1000	0	NR
485	305	NR	615	908	NR	745	26	NR	875	1	NR			

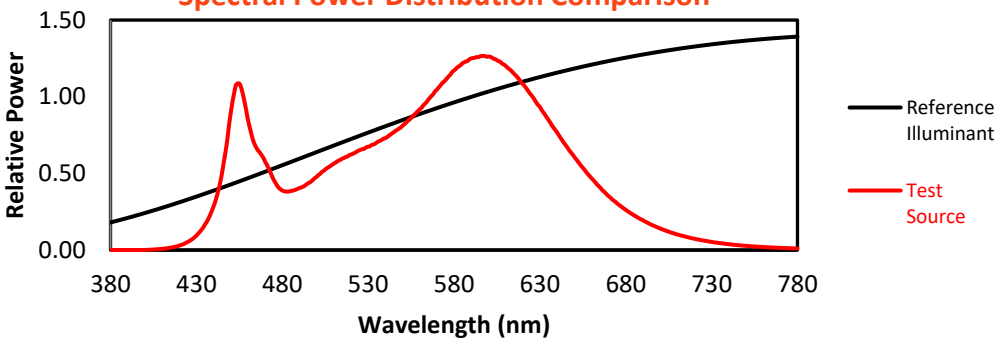
REPORT NUMBER: SP1-2407-168-2

TM-30-18

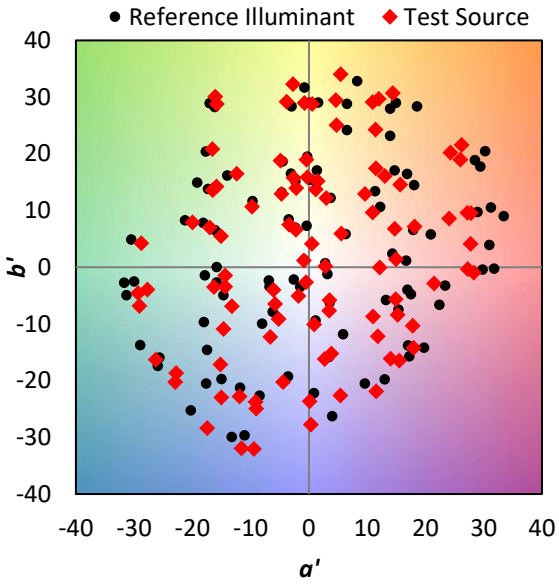
Summary

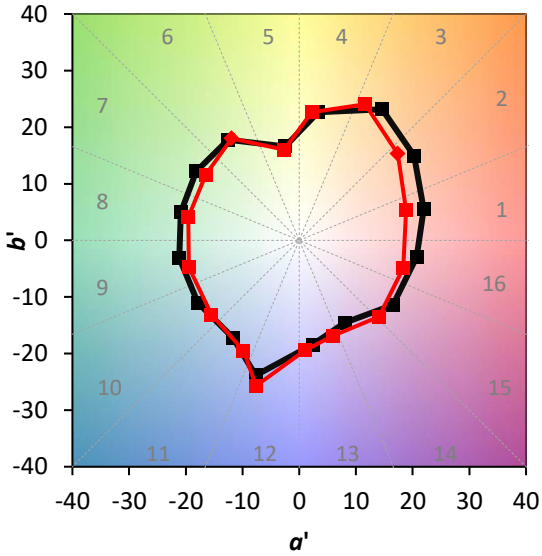
R_f = 82.6
R_g = 93
CIE R_a = 81.3
R_9 = -0.6

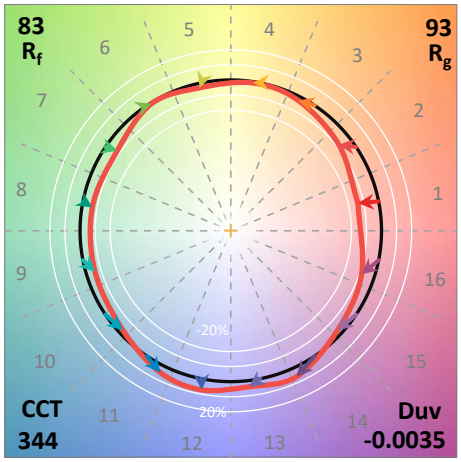
Spectral Power Distribution Comparison

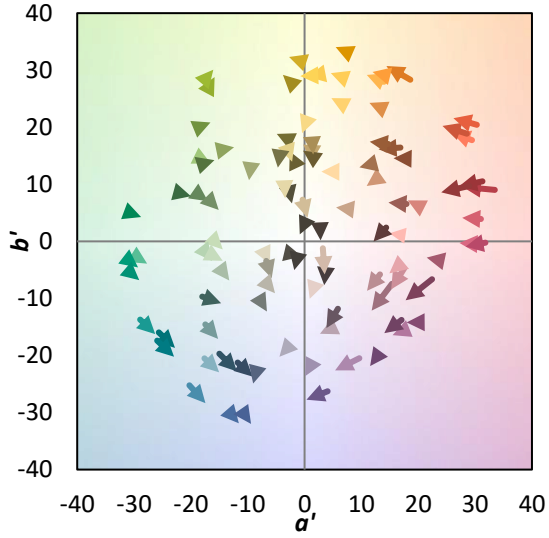


Color Vector Graphics







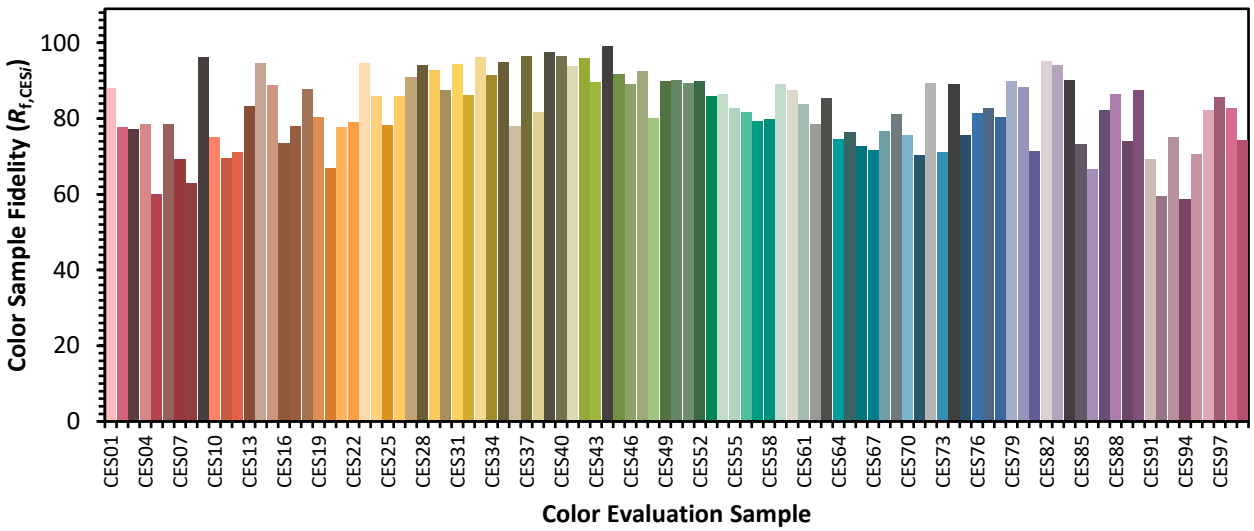


REPORT NUMBER: SP1-2407-168-2

TM-30-18

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

CES01 = 86	CES26 = 86	CES51 = 89	CES76 = 81
CES02 = 62	CES27 = 91	CES52 = 90	CES77 = 83
CES03 = 31	CES28 = 94	CES53 = 86	CES78 = 80
CES04 = 70	CES29 = 93	CES54 = 86	CES79 = 90
CES05 = 49	CES30 = 87	CES55 = 83	CES80 = 88
CES06 = 51	CES31 = 94	CES56 = 82	CES81 = 71
CES07 = 41	CES32 = 86	CES57 = 79	CES82 = 95
CES08 = 40	CES33 = 96	CES58 = 80	CES83 = 94
CES09 = 29	CES34 = 91	CES59 = 89	CES84 = 90
CES10 = 75	CES35 = 95	CES60 = 88	CES85 = 73
CES11 = 58	CES36 = 78	CES61 = 84	CES86 = 67
CES12 = 64	CES37 = 96	CES62 = 79	CES87 = 82
CES13 = 43	CES38 = 82	CES63 = 86	CES88 = 86
CES14 = 74	CES39 = 97	CES64 = 74	CES89 = 74
CES15 = 71	CES40 = 96	CES65 = 76	CES90 = 88
CES16 = 47	CES41 = 94	CES66 = 73	CES91 = 69
CES17 = 50	CES42 = 96	CES67 = 72	CES92 = 59
CES18 = 56	CES43 = 90	CES68 = 77	CES93 = 75
CES19 = 72	CES44 = 99	CES69 = 81	CES94 = 59
CES20 = 66	CES45 = 92	CES70 = 76	CES95 = 71
CES21 = 86	CES46 = 89	CES71 = 70	CES96 = 82
CES22 = 79	CES47 = 92	CES72 = 89	CES97 = 86
CES23 = 92	CES48 = 80	CES73 = 71	CES98 = 83
CES24 = 91	CES49 = 90	CES74 = 89	CES99 = 74
CES25 = 72	CES50 = 90	CES75 = 76	



REPORT NUMBER: SP1-2407-168-2

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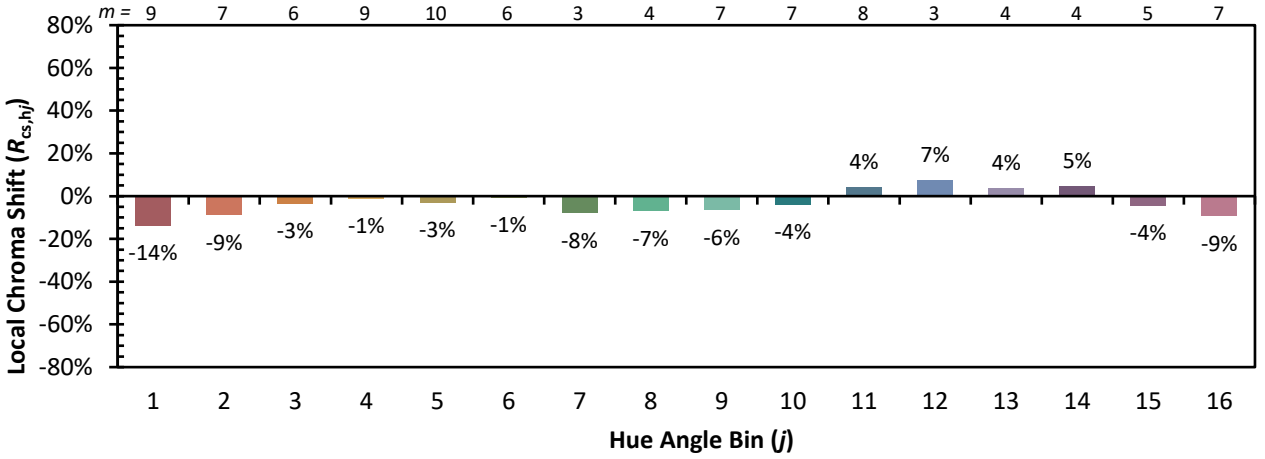
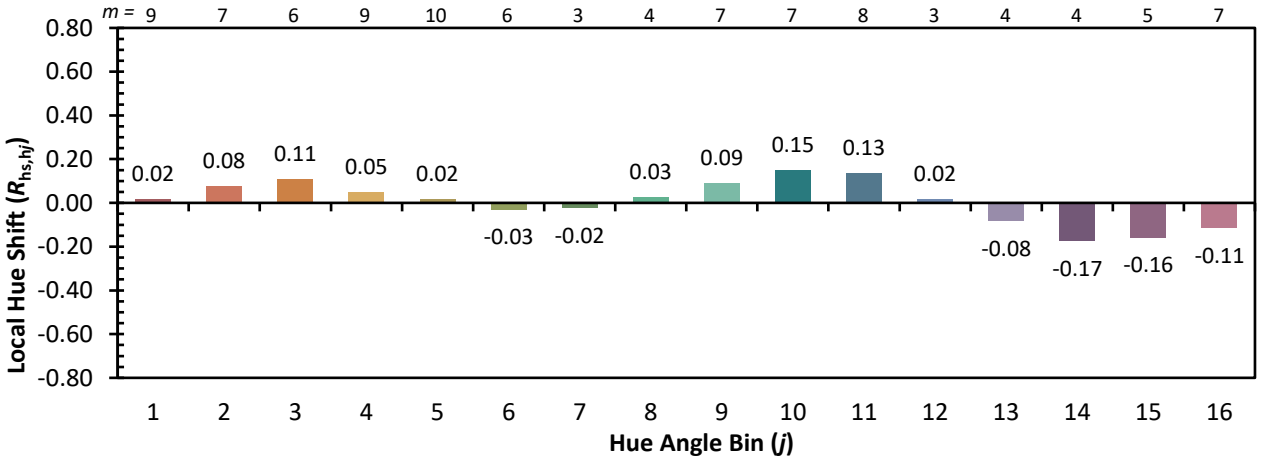
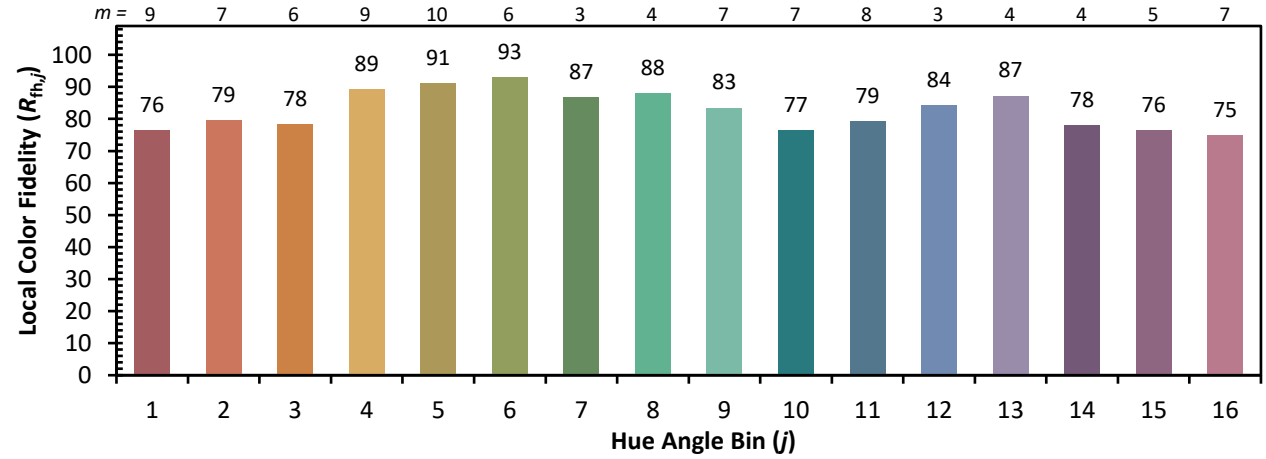
Color Rendition by Hue-Angle Bin







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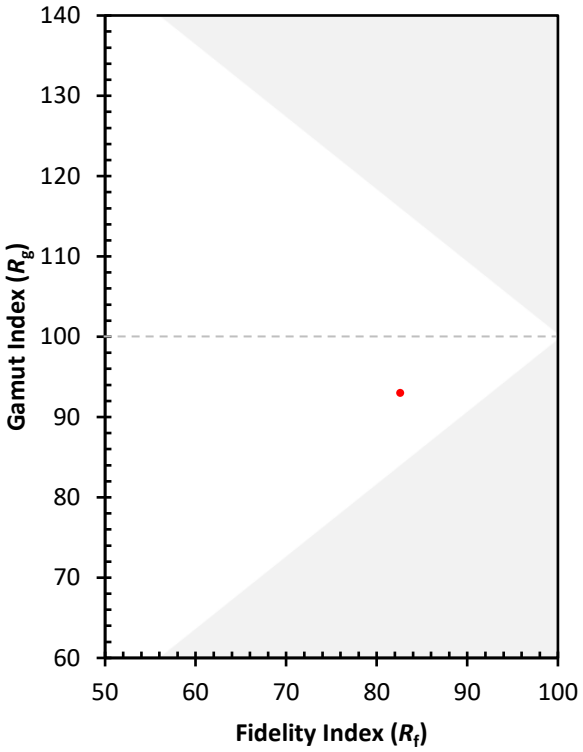
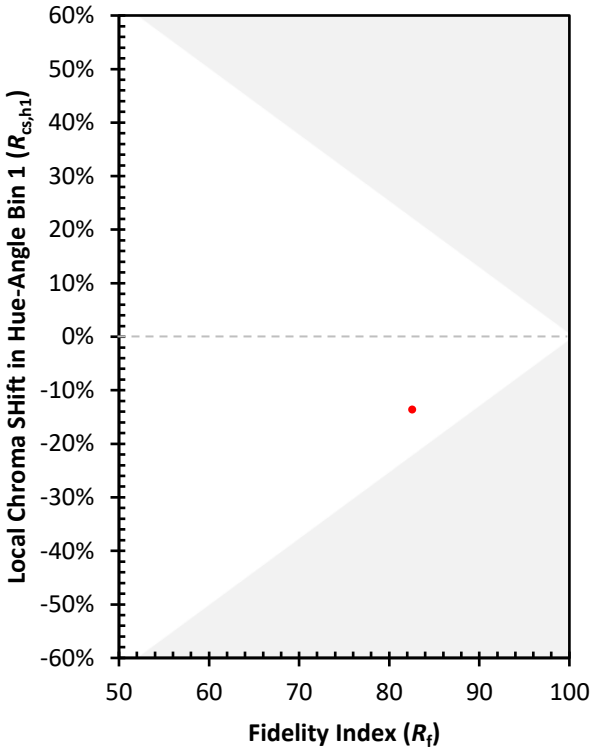
Measure Comparisons





(END OF REPORT)