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: P979148

Luminaire Tested: **WPMLED26S-80W-3000K**

Issue Date: 03/31/2025

Report Generated By 670245763

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

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P979148
Test Lab:	Cooper Lighting Solutions
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	LUMARK
Catalog Number:	WPMLED26S-80W-3000K
Description:	LUMARK WALL PACK LED MEDIUM 80CRI CCT AND LUMEN SELECTIVE FIXTURE OPERATING @80W-3000K
Light Source:	3000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	12455.3 lumens
Efficiency:	N/A
Efficacy:	146.5 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

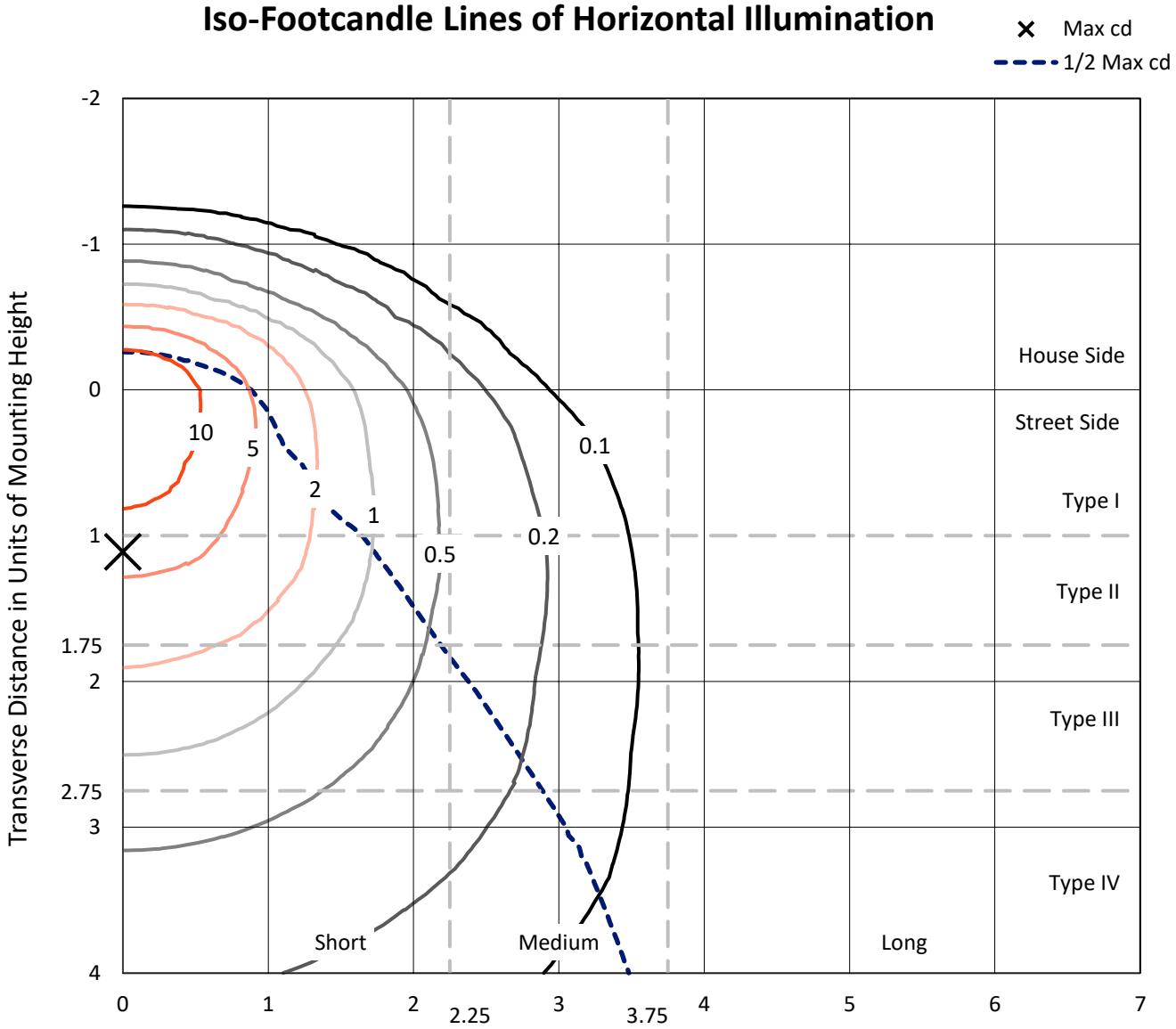
Input Watts (W):	85
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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

Scaled Data Report

REPORT NUMBER: P979148
CATALOG NUMBER: WPMLED26S-80W-3000K

Iso-Footcandle Lines of Horizontal Illumination



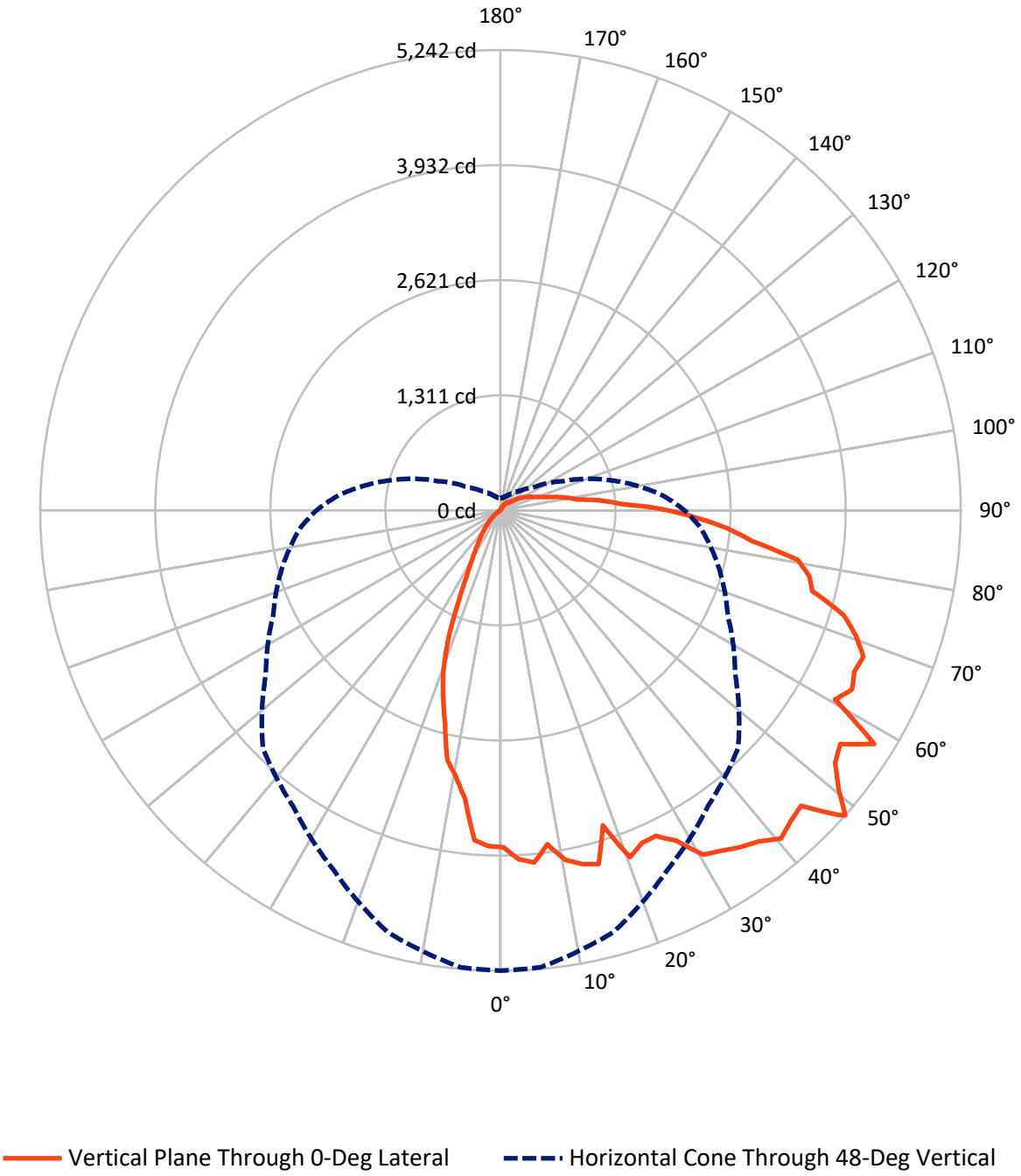
Based on 15 foot mounting height. Maximum calculated value = 17.1 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P979148
CATALOG NUMBER: WPMLED26S-80W-3000K

Luminous Intensity Polar Plot



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

Scaled Data Report

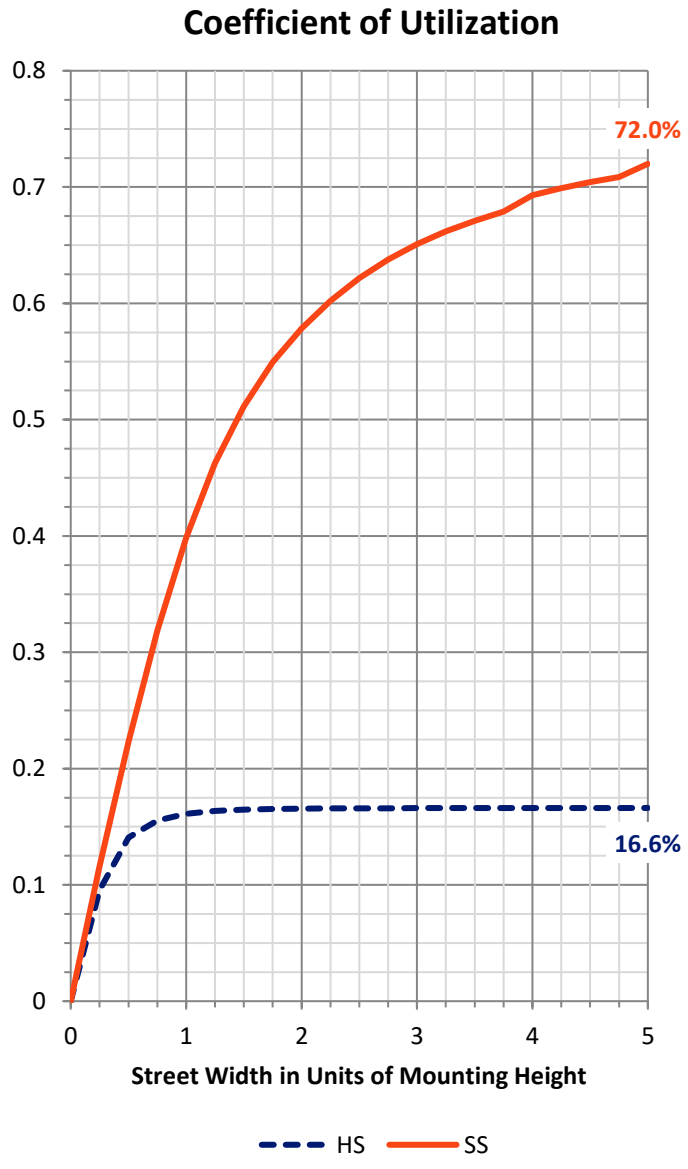
REPORT NUMBER: P979148
CATALOG NUMBER: WPMLED26S-80W-3000K

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2094.4	16.4	2110.8
	% Fixture	16.8	0.1	16.9
Street Side	Lumens	9564.2	780.4	10344.5
	% Fixture	76.8	6.3	83.1
Total	Lumens	11658.6	796.7	12455.3
	% Fixture	93.6	6.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.2	2.9
10°-20°	984.5	7.9
20°-30°	1372.4	11.0
30°-40°	1610.3	12.9
40°-50°	1746.6	14.0
50°-60°	1740.6	14.0
60°-70°	1612.5	12.9
70°-80°	1351.4	10.8
80°-90°	877.0	7.0
90°-100°	395.7	3.2
100°-110°	187.8	1.5
110°-120°	104.4	0.8
120°-130°	57.0	0.5
130°-140°	31.2	0.3
140°-150°	15.0	0.1
150°-160°	4.6	0.0
160°-170°	0.9	0.0
170°-180°	0.1	0.0
0°-90°	11658.6	93.6
0°-180°	12455.3	100.0



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

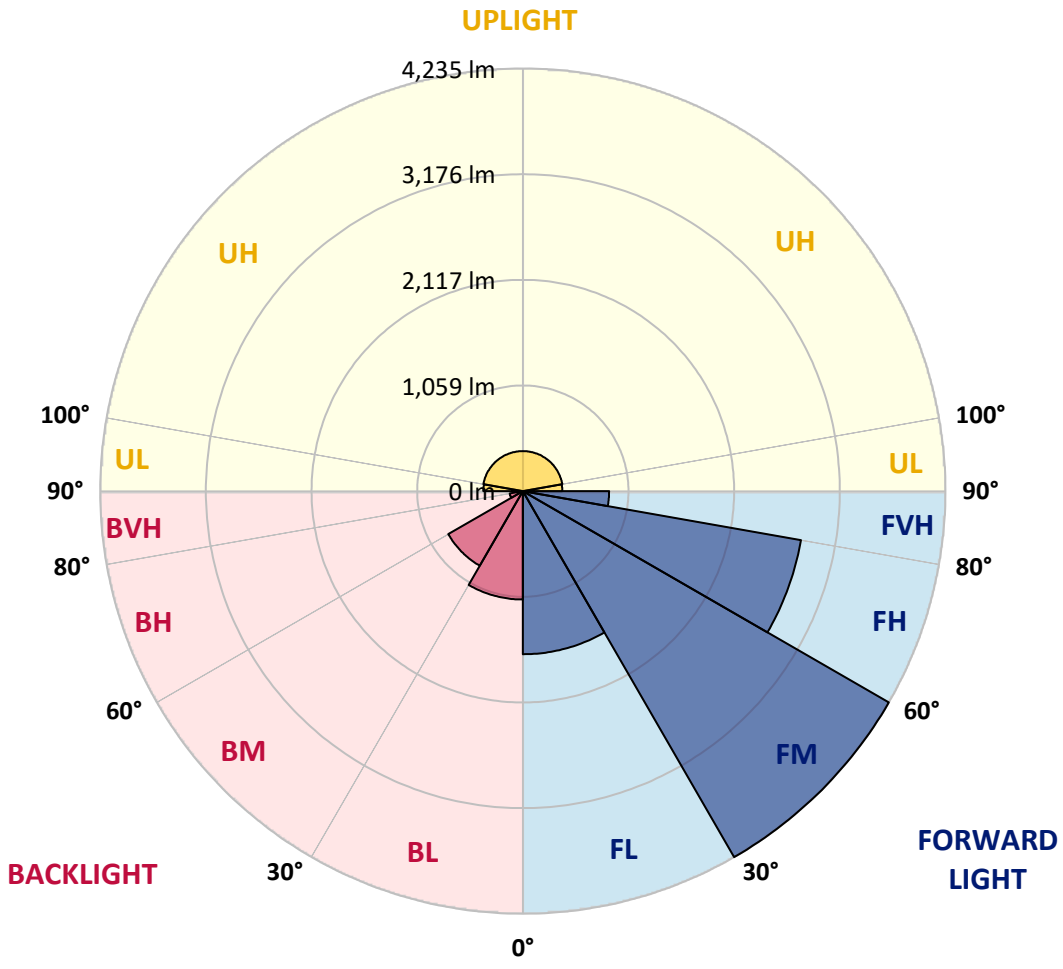
Scaled Data Report

REPORT NUMBER: P979148
CATALOG NUMBER: WPMLED26S-80W-3000K

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1634.5	13.1			
FM	(30°-60°)	4234.6	34.0			
FH	(60°-80°)	2830.1	22.7			G2/5000
FVH	(80°-90°)	864.9	6.9			G5
BL	(0°-30°)	1085.6	8.7	B3/2500		
BM	(30°-60°)	862.9	6.9	B1/1000		
BH	(60°-80°)	133.8	1.1	B1/500		G1/500
BVH	(80°-90°)	12.1	0.1			G1/100
UL	(90°-100°)	395.7	3.2		U3/500	
UH	(100°-180°)	401.0	3.2		U3/500	

BUG Rating: B3-U3-G5
Type IV Short



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

Scaled Data Report

REPORT NUMBER: P979148
CATALOG NUMBER: WPMLED26S-80W-3000K

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3837.0	3837.0	3837.0	3837.0	3837.0	3837.0	3837.0	3837.0	3837.0	3837.0	3837.0
2.5°	3978.8	3980.6	3972.5	3968.9	3967.1	3953.7	3937.5	3930.3	3917.8	3868.4	3834.3
5°	4027.2	4022.7	4021.0	4031.7	4051.5	4071.2	4002.1	3943.8	3908.8	3880.1	3823.5
7.5°	3840.6	3842.4	3851.4	3894.4	3989.5	4011.1	4024.5	4015.6	3928.5	3881.0	3805.6
10°	4048.8	4036.2	4000.3	3909.7	3848.7	3843.3	3991.3	4001.2	3937.5	3880.1	3784.1
12.5°	4133.1	4118.8	4086.5	4038.0	3994.0	3854.1	3837.9	3951.9	3966.2	3838.8	3733.8
15°	4180.7	4209.4	4264.1	4283.0	4092.7	4009.3	3786.8	3859.4	3927.6	3793.9	3685.4
17.5°	3773.3	3766.1	3767.0	3916.0	4216.6	4082.0	3899.8	3727.5	3820.0	3714.1	3611.8
20°	4215.7	4184.3	4068.5	3785.9	3780.5	4160.0	3915.1	3614.5	3714.1	3632.4	3535.5
22.5°	4115.2	4103.5	4148.4	4229.1	3837.0	3734.7	4012.0	3650.4	3636.9	3543.6	3455.6
25°	4108.0	4091.8	4038.9	4027.2	4170.8	3646.8	3883.7	3700.6	3546.3	3444.0	3369.5
27.5°	4260.5	4214.8	4064.0	4025.4	3930.3	4011.1	3532.8	3675.5	3383.8	3345.3	3279.8
30°	4551.3	4526.2	4462.4	4178.9	3909.7	3833.4	3452.9	3695.2	3220.5	3253.7	3192.7
32.5°	4622.2	4615.0	4644.6	4406.8	4021.0	3702.4	3723.0	3507.7	3150.5	3166.7	3092.2
35°	4709.2	4697.5	4646.4	4449.9	4224.6	3688.9	3587.5	3277.1	3120.9	3084.1	2986.3
37.5°	4783.7	4755.9	4598.8	4416.7	4183.4	3900.7	3435.0	3139.8	3138.9	2980.0	2856.2
40°	4915.6	4892.3	4764.8	4519.9	4113.4	3873.8	3383.8	3204.4	3150.5	2848.1	2703.7
42.5°	4843.8	4825.0	4825.0	4575.5	4143.9	3763.4	3435.0	3236.7	3001.6	2681.2	2519.7
45°	4799.8	4781.9	4809.7	4535.1	4244.4	3707.8	3478.1	3049.1	2805.1	2516.1	2328.6
47.5°	5188.4	5160.6	4851.9	4552.2	4112.5	3795.7	3292.3	2878.6	2609.4	2326.8	2141.0
48°	5242.2	5224.3	4973.0	4510.9	4116.1	3827.1	3262.7	2858.0	2578.9	2288.2	2095.3
50°	4988.3	4999.0	5035.8	4788.2	4199.5	3712.3	3212.5	2772.8	2424.6	2133.0	1944.5
52.5°	4772.0	4753.2	4692.2	4683.2	4318.0	3592.9	3192.7	2793.4	2276.5	1951.7	1776.7
55°	4696.6	4664.3	4589.9	4428.3	4252.5	3683.6	3119.1	2547.5	2136.6	1809.9	1636.7
57.5°	5018.8	4989.2	4818.7	4321.6	4082.0	3738.3	2930.7	2366.3	1956.2	1673.5	1492.3
60°	4376.3	4371.8	4487.6	4499.2	3923.1	3588.4	2878.6	2257.7	1828.8	1545.2	1350.5
62.5°	4493.0	4458.9	4231.8	4084.7	3971.6	3414.4	2825.7	2245.1	1748.9	1407.9	1204.2
65°	4429.2	4416.7	4326.0	4015.6	3707.8	3370.4	2685.7	2060.3	1689.7	1276.0	1064.2
67.5°	4457.1	4455.3	4340.4	4062.2	3632.4	3167.6	2532.3	1966.1	1499.4	1150.4	916.2
70°	4296.4	4290.2	4215.7	4007.5	3602.8	3047.3	2373.4	1941.8	1371.1	1014.9	746.6
72.5°	4090.0	4083.8	3994.0	3799.3	3496.0	2954.9	2194.9	1748.9	1294.0	862.3	580.6
75°	3669.2	3664.7	3627.0	3506.8	3225.0	2771.9	2020.8	1517.4	1124.4	695.4	444.2
77.5°	3594.7	3578.6	3419.7	3208.0	3017.7	2584.3	1849.4	1345.1	1025.7	542.0	318.6
80°	3435.9	3428.7	3383.8	3088.6	2775.5	2382.4	1691.5	1186.3	844.4	400.2	218.1
82.5°	2888.5	2880.4	2847.2	2763.8	2472.2	2084.5	1486.9	1023.9	680.2	285.4	148.1
85°	2586.1	2577.1	2486.5	2297.2	2148.2	1795.6	1282.3	867.7	538.4	198.3	96.0
87.5°	2210.1	2229.0	2173.3	2028.9	1768.6	1499.4	1058.0	713.4	409.2	132.8	61.9
90°	1833.3	1814.4	1782.1	1669.9	1500.3	1222.2	859.6	567.1	306.9	87.9	44.0
92.5°	1373.8	1377.4	1344.2	1289.5	1226.7	1002.3	684.7	429.8	228.8	64.6	36.8
95°	1156.7	1150.4	1125.3	1050.8	944.9	805.8	551.9	341.9	182.2	52.9	35.9
97.5°	886.6	874.0	859.6	848.0	778.0	635.3	459.4	286.2	149.9	51.1	39.5
100°	778.9	776.2	743.9	681.1	617.4	516.9	376.0	243.2	124.7	52.9	42.2
102.5°	672.1	678.4	670.3	623.6	533.9	428.9	311.4	204.6	106.8	54.7	44.0
105°	566.2	563.5	550.1	515.1	462.1	364.3	265.6	171.4	95.1	57.4	45.8
107.5°	487.3	485.5	473.8	437.9	386.8	313.2	222.5	146.3	86.1	57.4	45.8

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

Scaled Data Report

REPORT NUMBER: P979148
CATALOG NUMBER: WPMLED26S-80W-3000K

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	*432.5*	430.7	418.2	383.2	331.1	267.4	191.1	125.6	81.7	56.5	45.8
112.5°	*392.1*	393.0	376.9	341.0	285.4	226.1	164.2	109.5	78.1	55.6	44.9
115°	*357.1*	357.1	341.0	304.2	249.5	196.5	143.6	96.9	74.5	53.8	44.0
117.5°	*323.0*	320.3	304.2	266.5	217.2	171.4	125.6	87.9	71.8	50.3	41.3
120°	*282.7*	281.8	264.7	229.7	190.2	150.8	112.2	80.8	67.3	46.7	36.8
122.5°	*243.2*	242.3	227.0	197.4	165.1	134.6	100.5	74.5	61.0	42.2	33.2
125°	*206.4*	206.4	193.8	169.6	144.5	119.3	90.6	68.2	54.7	36.8	29.6
127.5°	*173.2*	171.4	162.4	146.3	129.2	107.7	82.6	62.8	48.5	33.2	26.0
130°	*147.2*	143.6	138.2	130.1	116.7	97.8	76.3	58.3	43.1	28.7	23.3
132.5°	*124.7*	123.8	122.9	119.3	107.7	87.9	69.1	53.8	38.6	25.1	20.6
135°	*114.0*	114.0	116.7	112.2	99.6	79.0	61.9	48.5	33.2	22.4	17.9
137.5°	*119.3*	118.4	115.8	106.8	88.8	70.0	55.6	43.1	29.6	18.8	15.3
140°	*118.4*	116.7	109.5	95.1	76.3	61.0	48.5	37.7	24.2	16.2	12.6
142.5°	*99.6*	98.7	91.5	79.0	63.7	52.0	42.2	31.4	19.7	12.6	9.9
145°	*80.8*	79.9	74.5	64.6	53.8	44.0	36.8	26.0	16.2	9.9	8.1
147.5°	*61.9*	61.9	58.3	52.0	44.9	37.7	30.5	19.7	11.7	8.1	7.2
150°	*49.4*	49.4	46.7	43.1	37.7	32.3	24.2	15.3	9.0	7.2	6.3
152.5°	*39.5*	38.6	37.7	34.1	30.5	25.1	17.9	10.8	7.2	6.3	5.4
155°	*31.4*	31.4	29.6	26.9	24.2	18.8	12.6	8.1	6.3	4.5	4.5
157.5°	*24.2*	24.2	23.3	20.6	17.9	13.5	8.1	6.3	5.4	4.5	3.6
160°	*18.8*	17.9	17.0	15.3	12.6	8.1	6.3	4.5	4.5	3.6	2.7
162.5°	*13.5*	12.6	11.7	9.9	7.2	6.3	4.5	3.6	3.6	2.7	2.7
165°	*8.1*	8.1	8.1	6.3	5.4	4.5	3.6	3.6	3.6	2.7	2.7
167.5°	*5.4*	4.5	4.5	3.6	3.6	3.6	3.6	3.6	3.6	2.7	2.7
170°	*1.8*	1.8	1.8	2.7	2.7	3.6	3.6	3.6	3.6	2.7	2.7
172.5°	*0.0*	0.9	1.8	1.8	2.7	3.6	3.6	3.6	3.6	2.7	2.7
175°	*0.0*	0.9	0.9	1.8	2.7	2.7	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

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

Scaled Data Report

REPORT NUMBER: P979148
CATALOG NUMBER: WPMLED26S-80W-3000K

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3837.0	3837.0	3837.0	3837.0	3837.0	3837.0	3837.0	3837.0	3837.0	3837.0
2.5°	3813.7	3829.8	3848.7	3838.8	3824.4	3807.4	3809.2	3820.0	3830.7	3826.2
5°	3811.0	3838.8	3798.4	3855.8	3876.5	3854.9	3808.3	3774.2	3772.4	3767.9
7.5°	3814.6	3795.7	3860.3	3811.0	3716.8	3547.2	3452.0	3356.9	3308.5	3308.5
10°	3809.2	3823.5	3792.1	3590.2	3367.7	3158.6	3081.4	3074.3	3073.4	3071.6
12.5°	3761.6	3818.2	3633.3	3309.4	3080.5	3064.4	3038.4	2982.7	2923.5	2908.3
15°	3703.3	3713.2	3412.6	3058.1	3028.5	2893.9	2689.3	2570.0	2518.8	2517.9
17.5°	3618.9	3555.2	3126.3	2987.2	2811.3	2541.3	2414.7	2305.3	2225.4	2229.0
20°	3535.5	3371.3	2945.9	2822.1	2496.4	2292.7	2119.5	2016.3	1960.7	1950.8
22.5°	3452.9	3199.0	2835.6	2549.3	2255.9	2011.8	1849.4	1699.6	1602.6	1598.2
25°	3366.8	3024.0	2685.7	2304.4	2002.0	1759.7	1490.5	1277.8	1180.0	1161.2
27.5°	3260.0	2814.9	2474.8	2071.9	1755.2	1413.3	1108.2	941.3	877.6	853.4
30°	3143.4	2633.7	2259.5	1844.0	1458.2	1072.3	845.3	725.9	673.9	668.5
32.5°	3013.2	2474.0	2060.3	1611.6	1165.6	829.1	664.0	577.9	538.4	535.7
35°	2860.7	2322.3	1841.3	1366.6	909.9	655.1	536.6	472.9	442.4	439.7
37.5°	2697.4	2146.4	1626.9	1110.9	717.9	533.0	442.4	390.3	369.7	367.0
40°	2512.5	1966.1	1386.4	891.1	576.1	440.6	367.9	323.9	301.5	297.0
42.5°	2321.4	1743.5	1181.8	707.1	477.4	367.0	300.6	262.9	246.8	245.0
45°	2112.3	1540.7	988.9	570.7	394.8	303.3	245.9	210.0	193.8	189.3
47.5°	1902.3	1352.3	817.5	467.5	323.9	245.0	193.8	162.4	148.1	145.4
48°	*1866.5*	*1314.6*	*785.2*	*451.4*	*313.2*	*236.0*	*184.0*	*152.5*	*140.9*	*140.0*
50°	1709.4	1184.5	662.2	393.0	268.3	198.3	150.8	122.9	111.3	111.3
52.5°	1540.7	1025.7	537.5	329.3	219.8	157.9	116.7	92.4	83.5	81.7
55°	1378.3	866.8	437.9	274.6	180.4	121.1	87.9	69.1	61.9	60.1
57.5°	1224.9	714.3	371.5	229.7	143.6	91.5	61.9	46.7	39.5	37.7
60°	1078.6	586.9	316.8	189.3	113.1	67.3	42.2	27.8	20.6	20.6
62.5°	929.6	471.1	270.1	155.2	86.1	46.7	22.4	11.7	9.9	9.9
65°	798.6	385.9	225.2	123.8	61.0	26.9	4.5	0.0	0.0	0.0
67.5°	646.1	319.5	189.3	97.8	41.3	9.0	0.0	0.0	0.0	0.0
70°	502.5	262.0	156.1	75.4	22.4	0.9	0.0	0.0	0.0	0.0
72.5°	382.3	212.7	126.5	54.7	8.1	0.0	0.0	0.0	0.0	0.0
75°	280.9	168.7	102.3	36.8	2.7	0.0	0.0	0.0	0.0	0.0
77.5°	206.4	132.8	79.9	23.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	150.8	103.2	60.1	14.4	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	106.8	79.9	45.8	8.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	74.5	62.8	35.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	52.9	50.3	26.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0
90°	42.2	41.3	21.5	3.6	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	35.9	34.1	16.2	2.7	0.0	0.0	0.0	0.0	0.0	0.0
95°	33.2	28.7	12.6	2.7	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	34.1	26.9	10.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
100°	35.9	25.1	9.9	1.8	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	36.8	23.3	9.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0
105°	37.7	22.4	9.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	37.7	21.5	8.1	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: P979148
CATALOG NUMBER: WPMLED26S-80W-3000K

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	36.8	19.7	7.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	35.9	18.8	6.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0
115°	34.1	17.0	5.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	31.4	15.3	4.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
120°	28.7	13.5	4.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	25.1	11.7	3.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
125°	22.4	10.8	3.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	19.7	9.0	3.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
130°	17.0	8.1	3.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	15.3	7.2	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
135°	13.5	6.3	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	11.7	5.4	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
140°	9.9	4.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	8.1	3.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	7.2	3.6	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	6.3	2.7	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: SP1-2407-168-1

Test Date: 08/08/2024

Luminaire Tested: LSDL-92S-100W 3000k

Data in this report applies to families of products including LSDL-92S-100W 3000k.

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

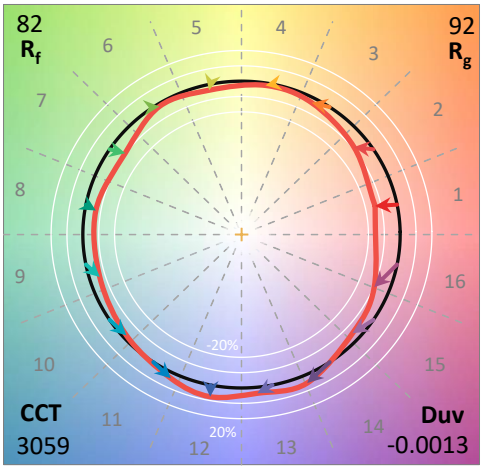
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-168-1
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 3000k**
Description:	Lumark Wallpack 100W

Spectral Parameters

CCT (K):	3059	CRI (Ra):	79.3		
CIE u':	0.2490	R1:	78.1	R9:	-8.3
CIE v':	0.5184	R2:	92.3	R10:	82.8
Duv:	-0.0013	R3:	91.2	R11:	73.1
CIE x:	0.4310	R4:	74.6	R12:	70.5
CIE y:	0.3988	R5:	78.8	R13:	81.8
CIE z:	0.1702	R6:	90.5	R14:	95.7
Peak Wavelength (nm):	600	R7:	77.6	R15:	69.8
Dominant Wavelength (nm):	583	R8:	50.9		
Purity:	49.0643				

Rf:	81.8
Rg:	91.9



Test Conditions

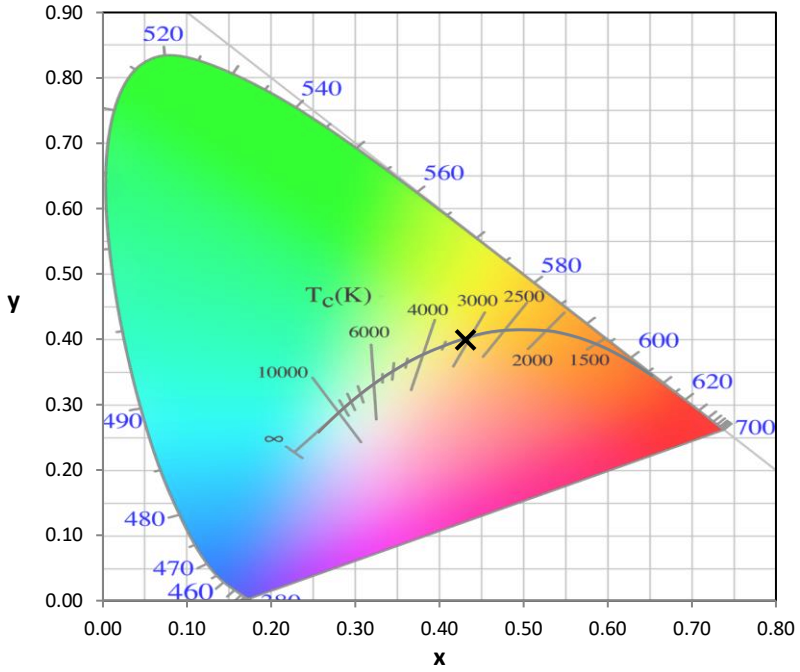
Stabilization Time:	51M
Operation Time:	1H 51M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2407-168-1

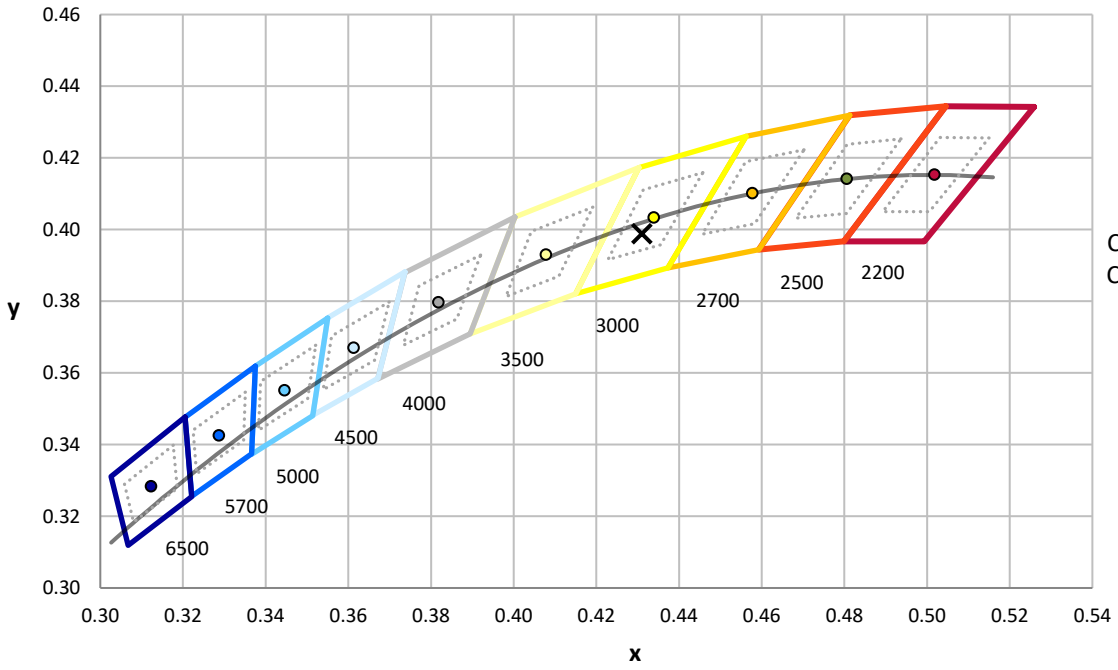
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-168-1

CIE 1931 Chromaticity Diagram



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

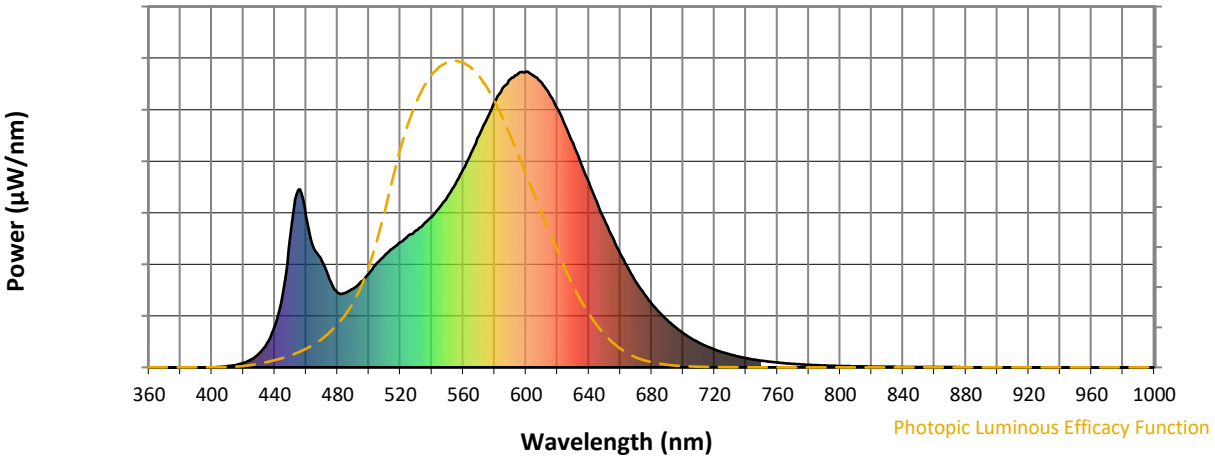


CCT = 3059K
CIE x = 0.4310
CIE y = 0.3988
Duv = -0.0013

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-168-1

Photopic Flux vs. Wavelength

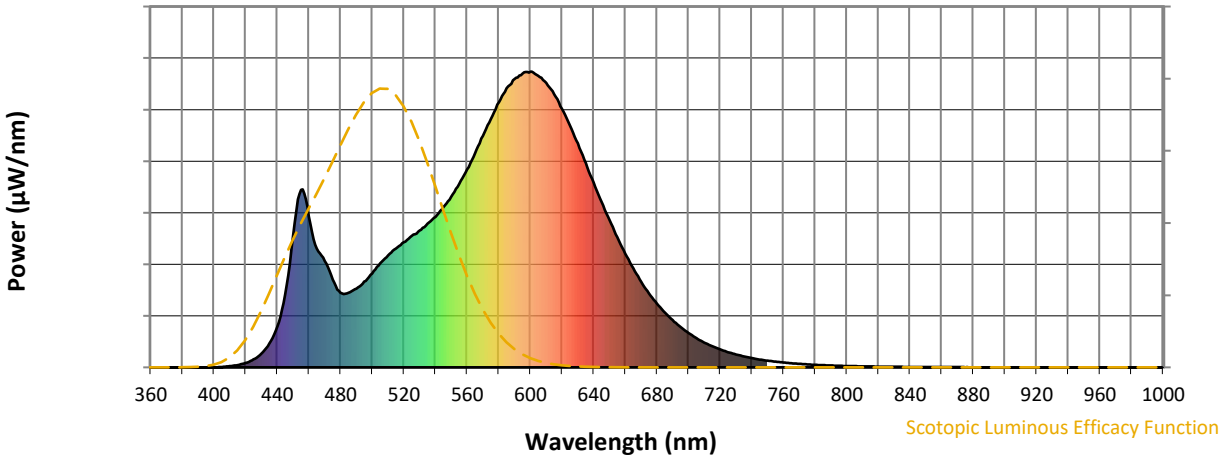


Photopic Lumens: NR

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	266	NR	620	875	NR	750	23	NR	880	0	NR
365	0	NR	495	290	NR	625	818	NR	755	19	NR	885	0	NR
370	0	NR	500	317	NR	630	758	NR	760	16	NR	890	0	NR
375	0	NR	505	352	NR	635	690	NR	765	14	NR	895	0	NR
380	0	NR	510	379	NR	640	625	NR	770	12	NR	900	0	NR
385	0	NR	515	402	NR	645	560	NR	775	10	NR	905	0	NR
390	0	NR	520	423	NR	650	498	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	440	NR	785	7	NR	915	0	NR
400	0	NR	530	463	NR	660	385	NR	790	6	NR	920	0	NR
405	1	NR	535	486	NR	665	335	NR	795	5	NR	925	0	NR
410	4	NR	540	509	NR	670	289	NR	800	5	NR	930	0	NR
415	8	NR	545	542	NR	675	250	NR	805	4	NR	935	0	NR
420	15	NR	550	577	NR	680	216	NR	810	3	NR	940	0	NR
425	27	NR	555	620	NR	685	185	NR	815	3	NR	945	0	NR
430	46	NR	560	670	NR	690	160	NR	820	3	NR	950	0	NR
435	81	NR	565	725	NR	695	136	NR	825	2	NR	955	0	NR
440	139	NR	570	782	NR	700	116	NR	830	2	NR	960	0	NR
445	246	NR	575	840	NR	705	99	NR	835	2	NR	965	0	NR
450	446	NR	580	896	NR	710	84	NR	840	1	NR	970	0	NR
455	601	NR	585	944	NR	715	71	NR	845	1	NR	975	0	NR
460	511	NR	590	975	NR	720	61	NR	850	1	NR	980	0	NR
465	402	NR	595	994	NR	725	51	NR	855	1	NR	985	0	NR
470	359	NR	600	1000	NR	730	44	NR	860	1	NR	990	0	NR
475	297	NR	605	985	NR	735	37	NR	865	1	NR	995	0	NR
480	252	NR	610	962	NR	740	32	NR	870	1	NR	1000	0	NR
485	252	NR	615	923	NR	745	27	NR	875	1	NR			

REPORT NUMBER: SP1-2407-168-1

Scotopic Flux vs. Wavelength

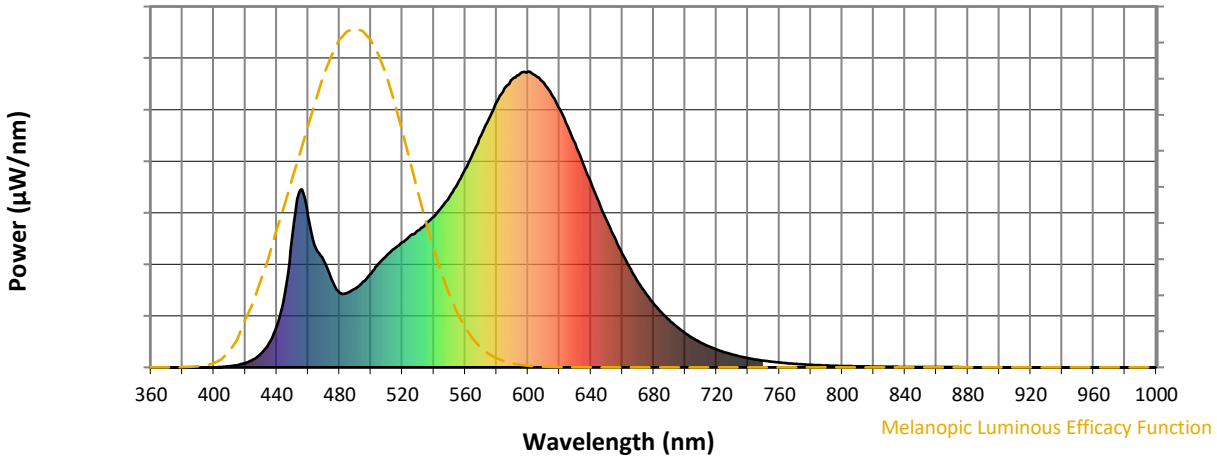


Scotopic Lumens: NR **S/P: 1.39**

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	266	NR	620	875	NR	750	23	NR	880	0	NR
365	0	NR	495	290	NR	625	818	NR	755	19	NR	885	0	NR
370	0	NR	500	317	NR	630	758	NR	760	16	NR	890	0	NR
375	0	NR	505	352	NR	635	690	NR	765	14	NR	895	0	NR
380	0	NR	510	379	NR	640	625	NR	770	12	NR	900	0	NR
385	0	NR	515	402	NR	645	560	NR	775	10	NR	905	0	NR
390	0	NR	520	423	NR	650	498	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	440	NR	785	7	NR	915	0	NR
400	0	NR	530	463	NR	660	385	NR	790	6	NR	920	0	NR
405	1	NR	535	486	NR	665	335	NR	795	5	NR	925	0	NR
410	4	NR	540	509	NR	670	289	NR	800	5	NR	930	0	NR
415	8	NR	545	542	NR	675	250	NR	805	4	NR	935	0	NR
420	15	NR	550	577	NR	680	216	NR	810	3	NR	940	0	NR
425	27	NR	555	620	NR	685	185	NR	815	3	NR	945	0	NR
430	46	NR	560	670	NR	690	160	NR	820	3	NR	950	0	NR
435	81	NR	565	725	NR	695	136	NR	825	2	NR	955	0	NR
440	139	NR	570	782	NR	700	116	NR	830	2	NR	960	0	NR
445	246	NR	575	840	NR	705	99	NR	835	2	NR	965	0	NR
450	446	NR	580	896	NR	710	84	NR	840	1	NR	970	0	NR
455	601	NR	585	944	NR	715	71	NR	845	1	NR	975	0	NR
460	511	NR	590	975	NR	720	61	NR	850	1	NR	980	0	NR
465	402	NR	595	994	NR	725	51	NR	855	1	NR	985	0	NR
470	359	NR	600	1000	NR	730	44	NR	860	1	NR	990	0	NR
475	297	NR	605	985	NR	735	37	NR	865	1	NR	995	0	NR
480	252	NR	610	962	NR	740	32	NR	870	1	NR	1000	0	NR
485	252	NR	615	923	NR	745	27	NR	875	1	NR			

REPORT NUMBER: SP1-2407-168-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.77**

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	266	NR	620	875	NR	750	23	NR	880	0	NR
365	0	NR	495	290	NR	625	818	NR	755	19	NR	885	0	NR
370	0	NR	500	317	NR	630	758	NR	760	16	NR	890	0	NR
375	0	NR	505	352	NR	635	690	NR	765	14	NR	895	0	NR
380	0	NR	510	379	NR	640	625	NR	770	12	NR	900	0	NR
385	0	NR	515	402	NR	645	560	NR	775	10	NR	905	0	NR
390	0	NR	520	423	NR	650	498	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	440	NR	785	7	NR	915	0	NR
400	0	NR	530	463	NR	660	385	NR	790	6	NR	920	0	NR
405	1	NR	535	486	NR	665	335	NR	795	5	NR	925	0	NR
410	4	NR	540	509	NR	670	289	NR	800	5	NR	930	0	NR
415	8	NR	545	542	NR	675	250	NR	805	4	NR	935	0	NR
420	15	NR	550	577	NR	680	216	NR	810	3	NR	940	0	NR
425	27	NR	555	620	NR	685	185	NR	815	3	NR	945	0	NR
430	46	NR	560	670	NR	690	160	NR	820	3	NR	950	0	NR
435	81	NR	565	725	NR	695	136	NR	825	2	NR	955	0	NR
440	139	NR	570	782	NR	700	116	NR	830	2	NR	960	0	NR
445	246	NR	575	840	NR	705	99	NR	835	2	NR	965	0	NR
450	446	NR	580	896	NR	710	84	NR	840	1	NR	970	0	NR
455	601	NR	585	944	NR	715	71	NR	845	1	NR	975	0	NR
460	511	NR	590	975	NR	720	61	NR	850	1	NR	980	0	NR
465	402	NR	595	994	NR	725	51	NR	855	1	NR	985	0	NR
470	359	NR	600	1000	NR	730	44	NR	860	1	NR	990	0	NR
475	297	NR	605	985	NR	735	37	NR	865	1	NR	995	0	NR
480	252	NR	610	962	NR	740	32	NR	870	1	NR	1000	0	NR
485	252	NR	615	923	NR	745	27	NR	875	1	NR			

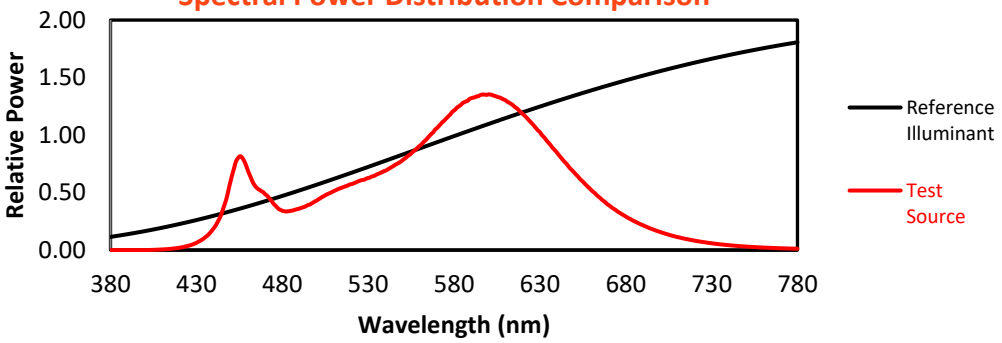
REPORT NUMBER: SP1-2407-168-1

TM-30-18

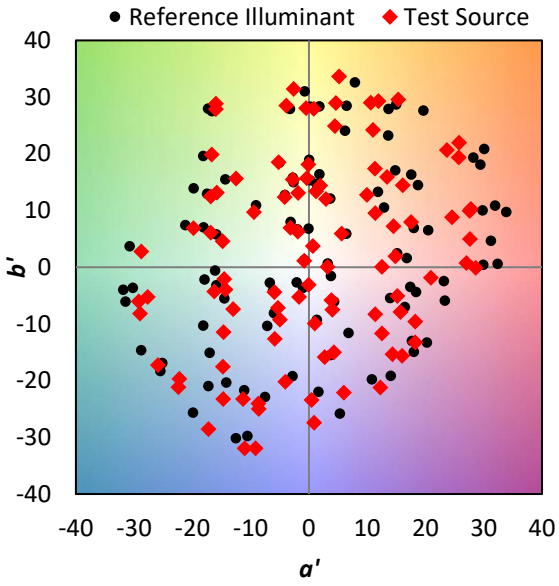
Summary

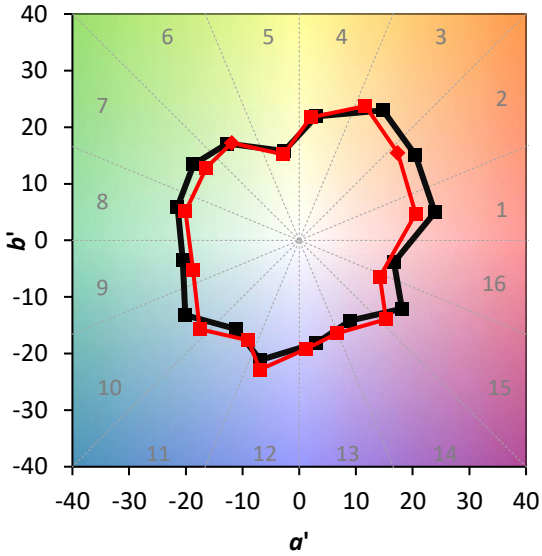
R_f = 81.8
R_g = 91.9
CIE R_a = 79.3
R_9 = -8.3

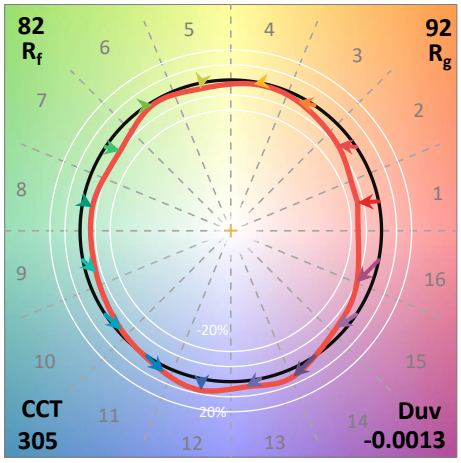
Spectral Power Distribution Comparison

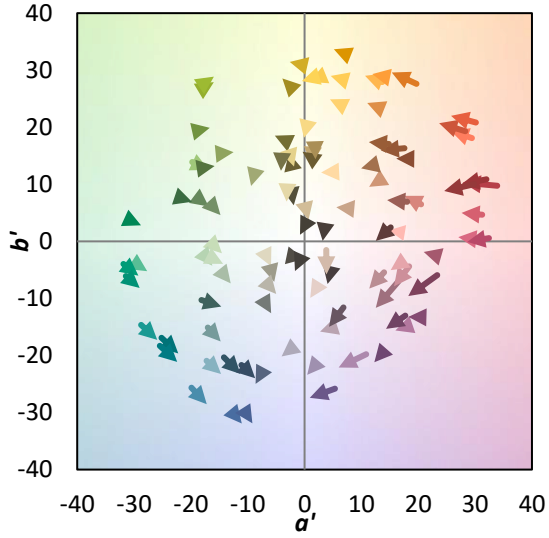


Color Vector Graphics







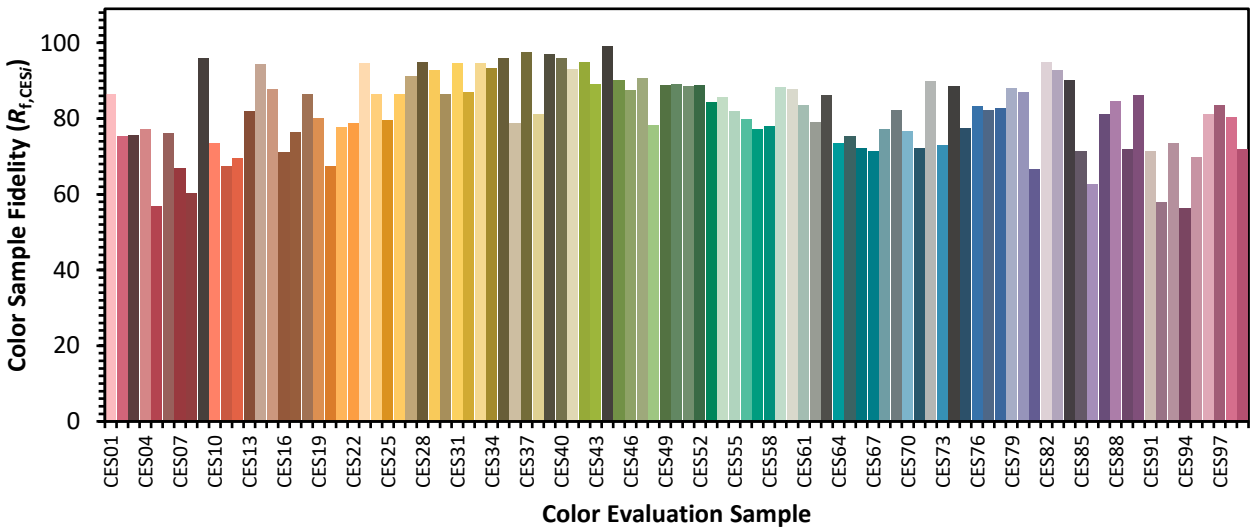


REPORT NUMBER: SP1-2407-168-1

TM-30-18

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

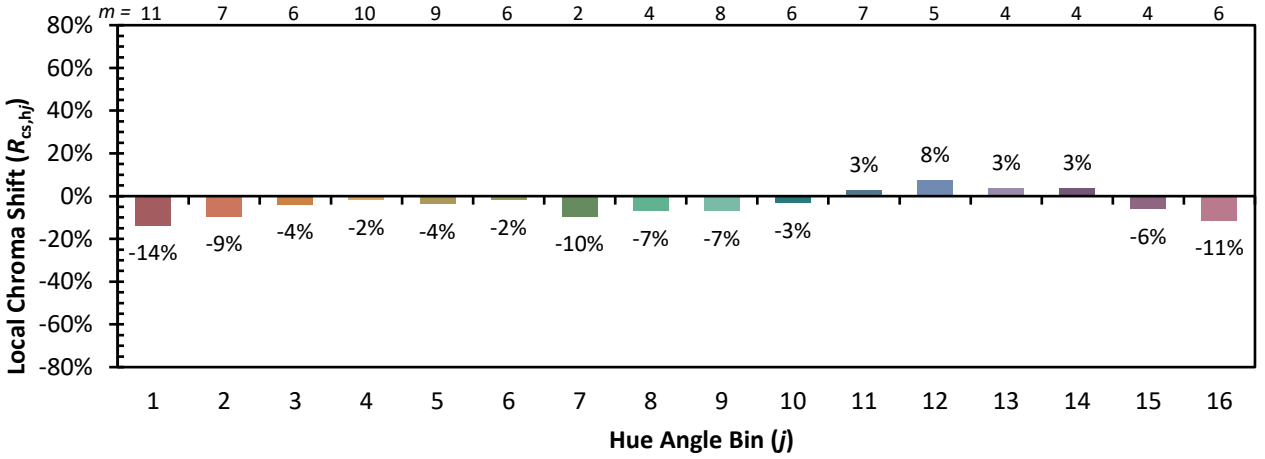
CES01 = 86	CES26 = 86	CES51 = 88	CES76 = 83
CES02 = 63	CES27 = 91	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 95	CES53 = 84	CES78 = 83
CES04 = 71	CES29 = 93	CES54 = 86	CES79 = 88
CES05 = 49	CES30 = 86	CES55 = 82	CES80 = 87
CES06 = 51	CES31 = 95	CES56 = 80	CES81 = 67
CES07 = 42	CES32 = 87	CES57 = 77	CES82 = 95
CES08 = 40	CES33 = 95	CES58 = 78	CES83 = 93
CES09 = 29	CES34 = 93	CES59 = 88	CES84 = 90
CES10 = 76	CES35 = 96	CES60 = 88	CES85 = 71
CES11 = 59	CES36 = 79	CES61 = 84	CES86 = 63
CES12 = 65	CES37 = 98	CES62 = 79	CES87 = 81
CES13 = 43	CES38 = 81	CES63 = 86	CES88 = 85
CES14 = 74	CES39 = 97	CES64 = 73	CES89 = 72
CES15 = 71	CES40 = 96	CES65 = 75	CES90 = 86
CES16 = 47	CES41 = 93	CES66 = 72	CES91 = 71
CES17 = 50	CES42 = 95	CES67 = 71	CES92 = 58
CES18 = 56	CES43 = 89	CES68 = 77	CES93 = 74
CES19 = 72	CES44 = 99	CES69 = 82	CES94 = 56
CES20 = 66	CES45 = 90	CES70 = 77	CES95 = 70
CES21 = 87	CES46 = 88	CES71 = 72	CES96 = 81
CES22 = 79	CES47 = 91	CES72 = 90	CES97 = 84
CES23 = 92	CES48 = 78	CES73 = 73	CES98 = 80
CES24 = 91	CES49 = 89	CES74 = 89	CES99 = 72
CES25 = 72	CES50 = 89	CES75 = 78	

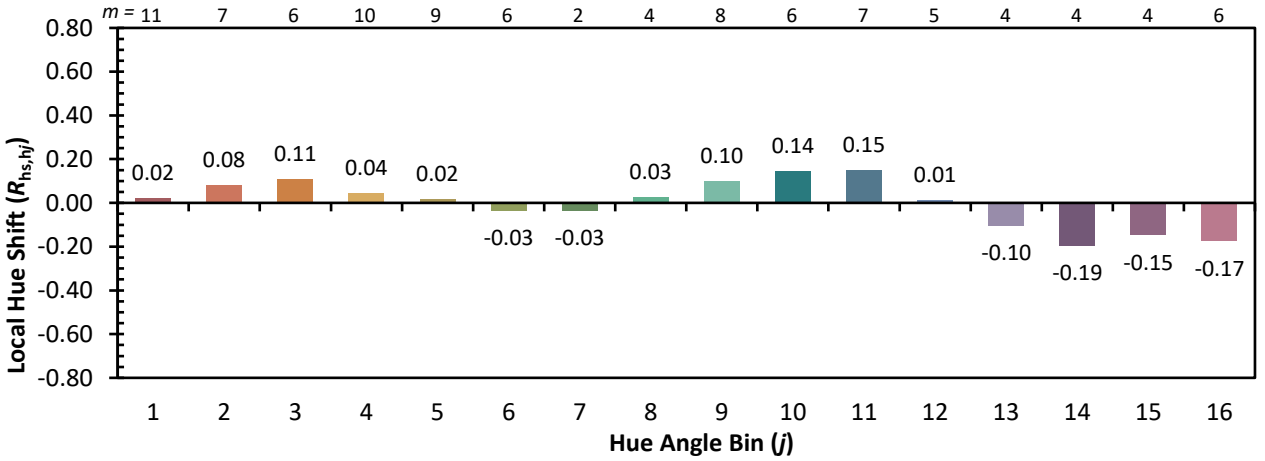


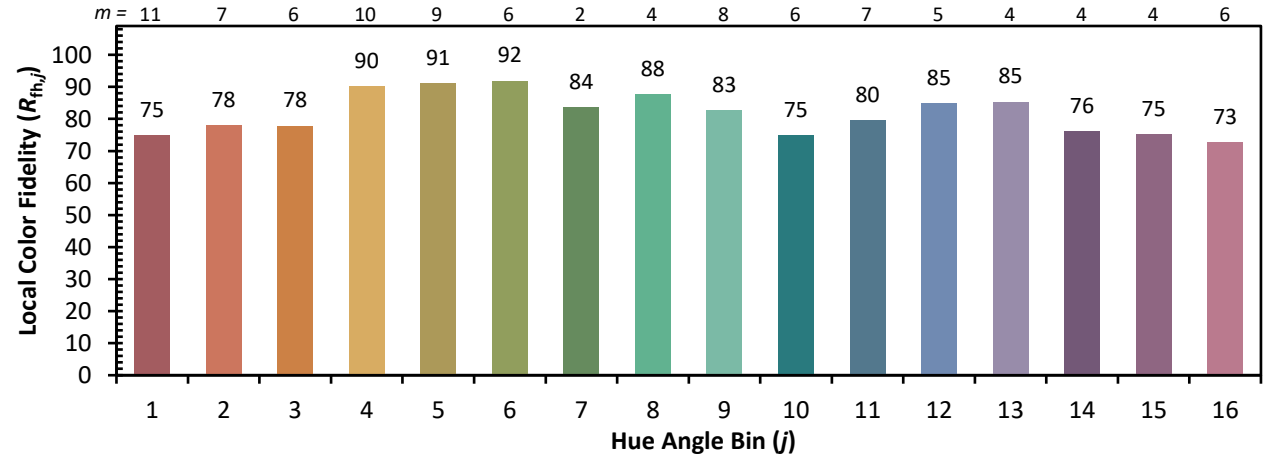
REPORT NUMBER: SP1-2407-168-1

TM-30-18

Color Rendition by Hue-Angle Bin



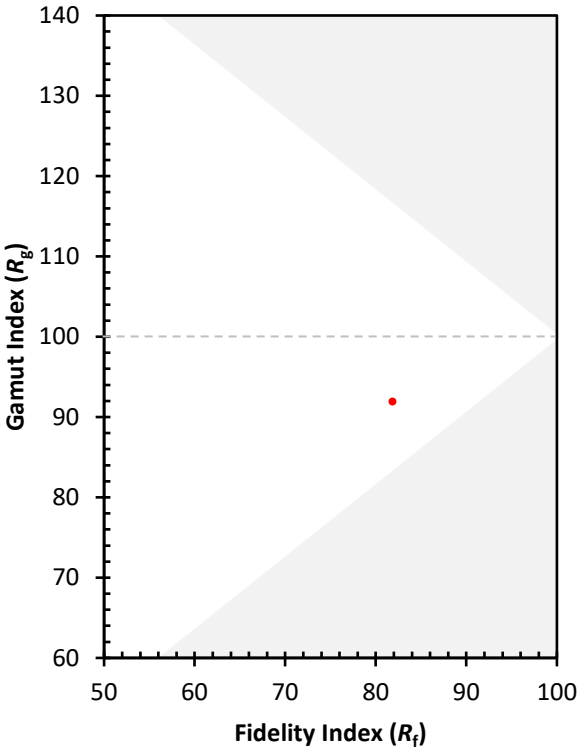


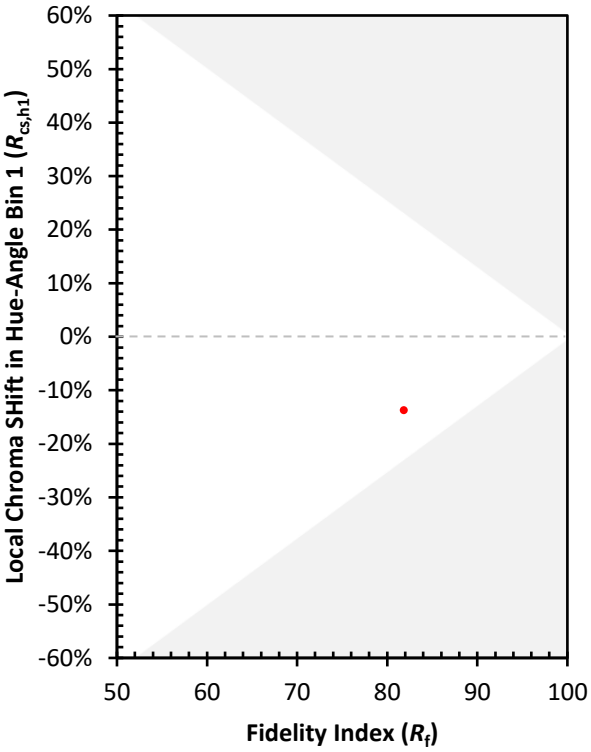


REPORT NUMBER: SP1-2407-168-1

TM-30-18

Measure Comparisons





(END OF REPORT)