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: P979154

Luminaire Tested: **WPMLED26S-70W-3500K**

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:	P979154
Test Lab:	Cooper Lighting Solutions
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	LUMARK
Catalog Number:	WPMLED26S-70W-3500K
Description:	LUMARK WALL PACK LED MEDIUM 80CRI CCT AND LUMEN SELECTIVE FIXTURE OPERATING @70W-3500K
Light Source:	3500K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11273.6 lumens
Efficiency:	N/A
Efficacy:	155.1 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:	B2 - U3 - G5

Input Watts (W):	72.7
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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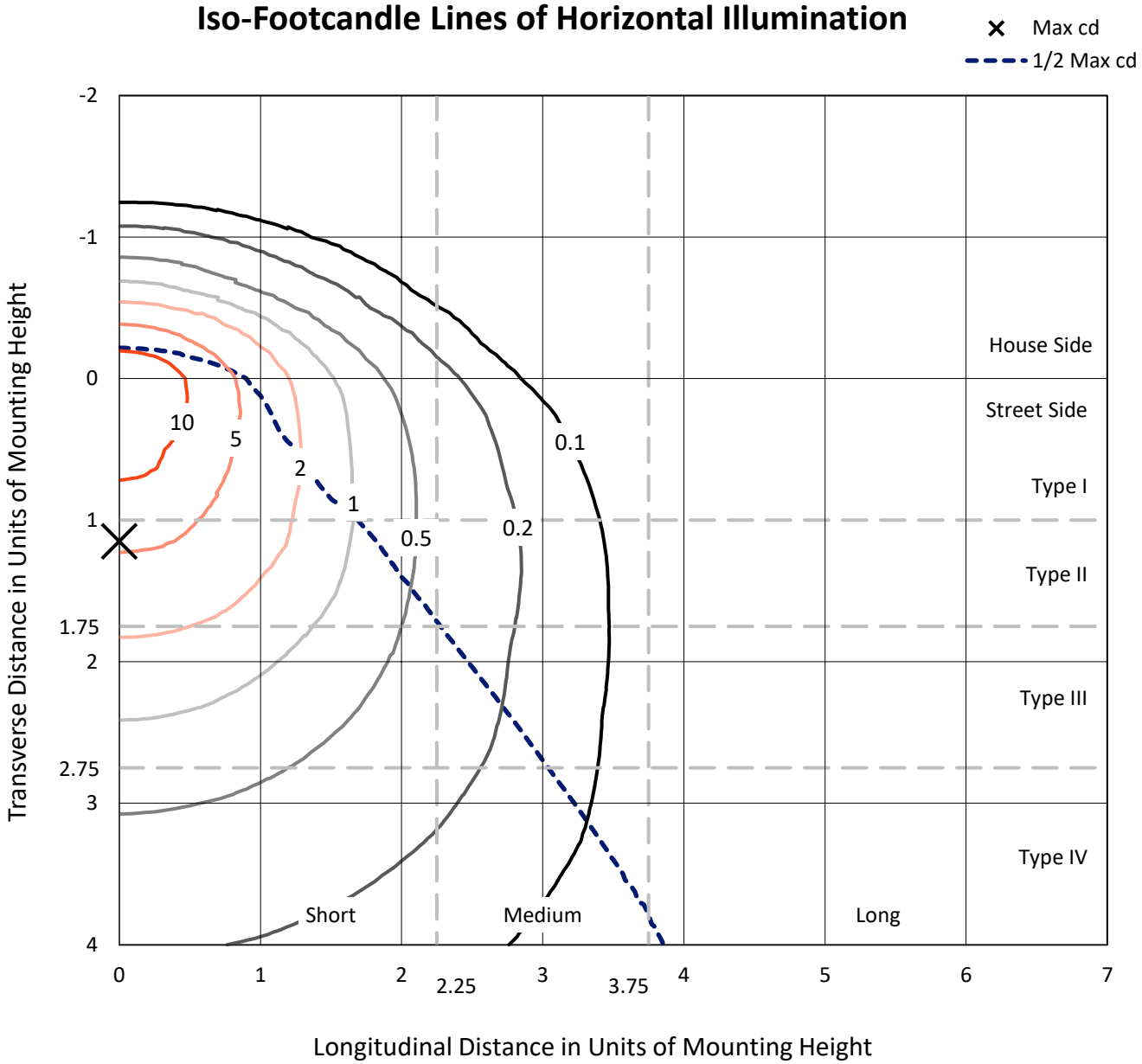
Iso-Footcandle Lines of Horizontal Illumination



Based on 15 foot mounting height. Maximum calculated value = 15.4 fc
Type IV - Short - N/A

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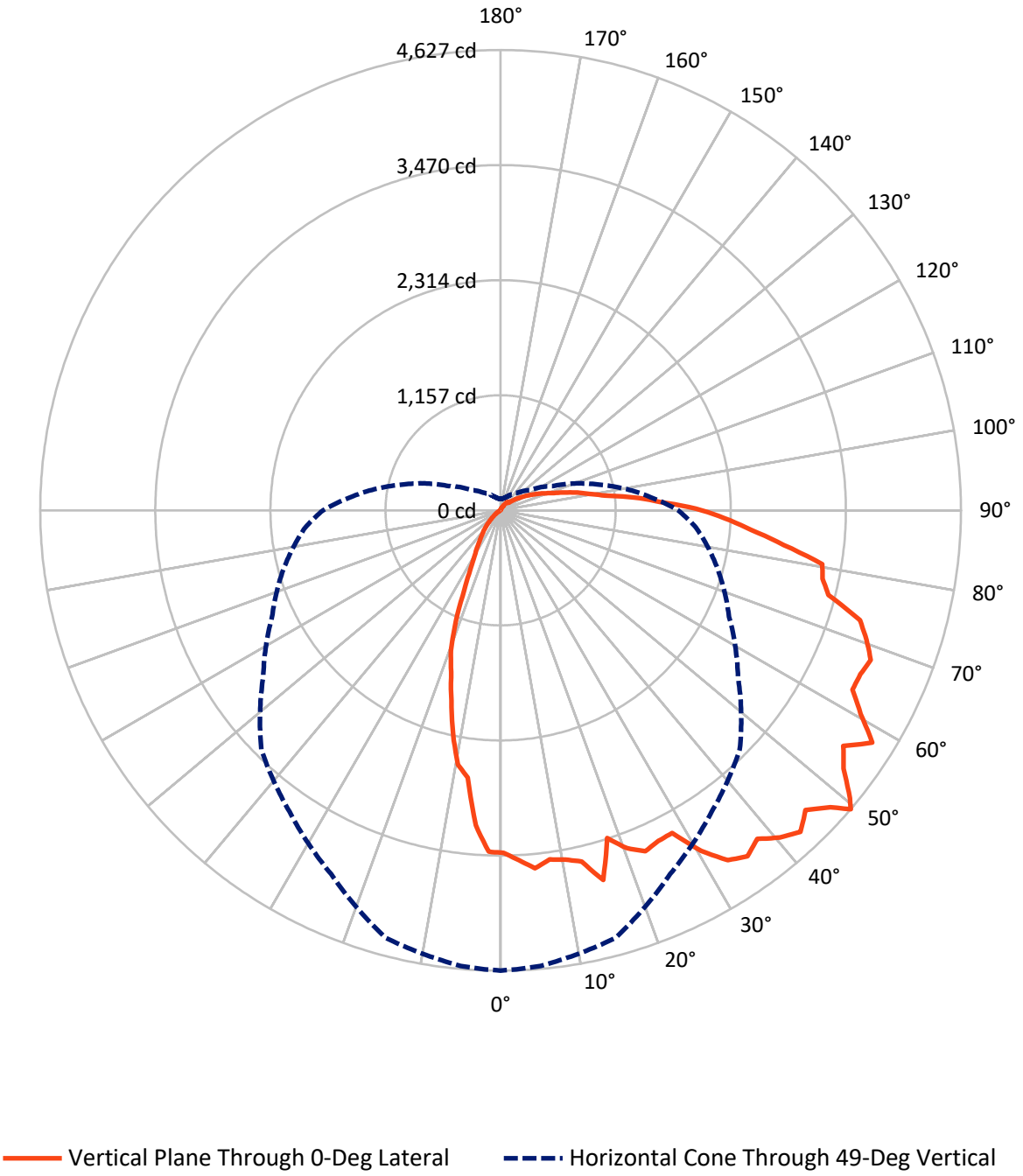
Luminous Intensity Polar Plot



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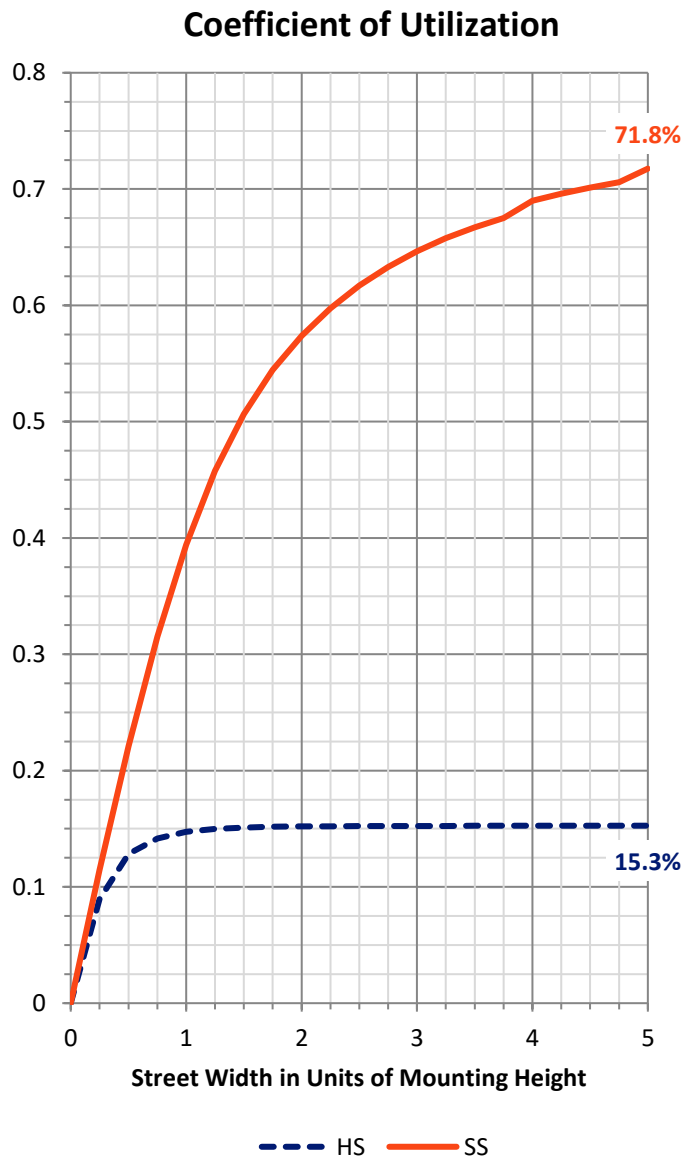
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1741.2	15.6	1756.7
	% Fixture	15.4	0.1	15.6
Street Side	Lumens	8684.6	832.3	9516.9
	% Fixture	77.0	7.4	84.4
Total	Lumens	10425.8	847.8	11273.6
	% Fixture	92.5	7.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.0	2.8
10°-20°	852.4	7.6
20°-30°	1184.3	10.5
30°-40°	1408.1	12.5
40°-50°	1544.4	13.7
50°-60°	1557.9	13.8
60°-70°	1457.0	12.9
70°-80°	1244.1	11.0
80°-90°	857.5	7.6
90°-100°	433.0	3.8
100°-110°	206.6	1.8
110°-120°	106.0	0.9
120°-130°	53.9	0.5
130°-140°	28.6	0.3
140°-150°	14.1	0.1
150°-160°	4.4	0.0
160°-170°	0.9	0.0
170°-180°	0.1	0.0
0°-90°	10425.8	92.5
0°-180°	11273.6	100.0



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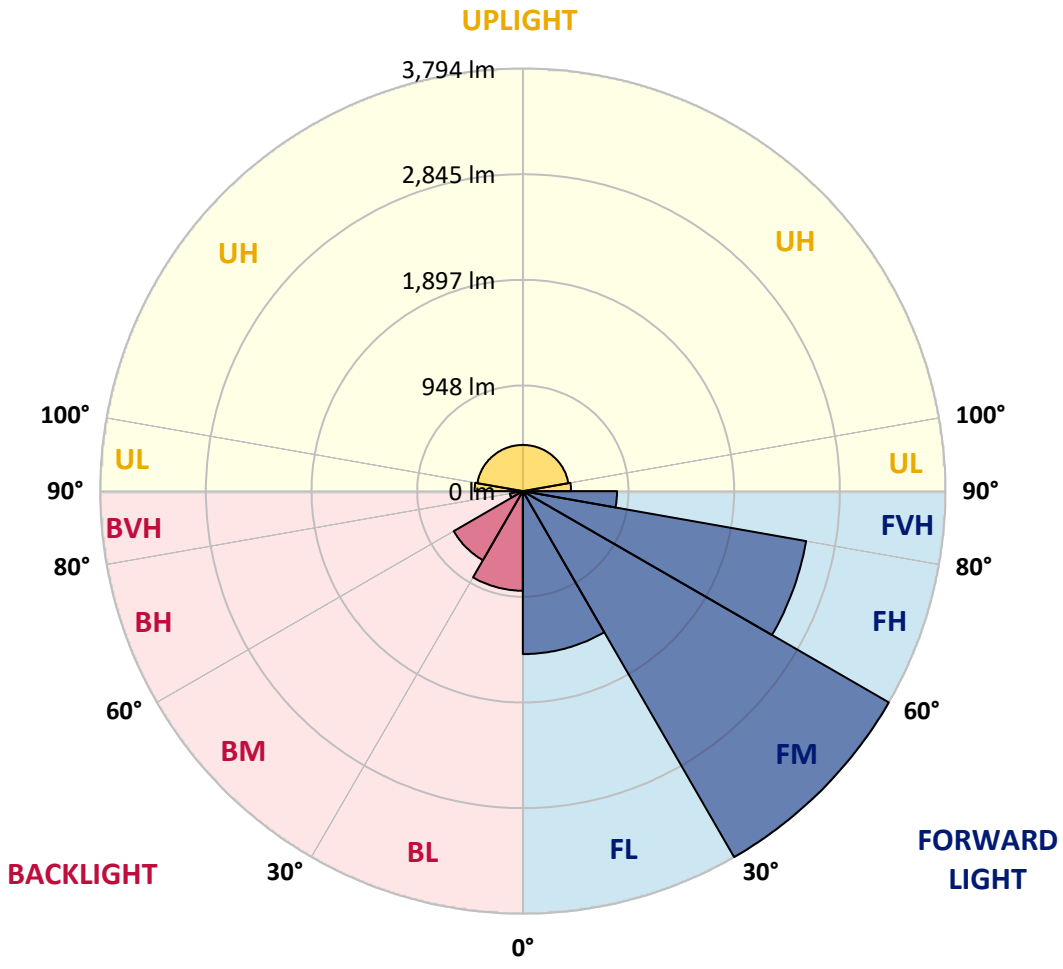
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1462.7	13.0			
FM	(30°-60°)	3793.7	33.7			
FH	(60°-80°)	2582.7	22.9			G2/5000
FVH	(80°-90°)	845.6	7.5			G5
BL	(0°-30°)	894.1	7.9	B2/1000		
BM	(30°-60°)	716.7	6.4	B1/1000		
BH	(60°-80°)	118.5	1.1	B1/500		G1/500
BVH	(80°-90°)	11.9	0.1			G1/100
UL	(90°-100°)	433.0	3.8		U3/500	
UH	(100°-180°)	414.8	3.7		U3/500	

BUG Rating: B2-U3-G5
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3443.3	3443.3	3443.3	3443.3	3443.3	3443.3	3443.3	3443.3	3443.3	3443.3	3443.3
2.5°	3520.3	3532.2	3517.9	3517.9	3513.1	3501.2	3507.6	3489.3	3452.8	3433.7	3454.4
5°	3614.0	3610.0	3625.9	3640.2	3627.5	3556.8	3530.6	3474.2	3498.9	3432.1	3440.1
7.5°	3544.1	3535.4	3556.0	3617.2	3625.9	3610.8	3620.4	3533.8	3498.9	3415.5	3425.8
10°	3569.5	3569.5	3524.3	3498.1	3499.6	3549.7	3599.7	3621.9	3475.0	3419.4	3399.6
12.5°	3622.7	3619.6	3591.0	3576.7	3526.6	3475.8	3534.6	3559.2	3487.7	3408.3	3363.9
15°	3856.2	3832.4	3832.4	3703.7	3585.4	3529.0	3436.9	3511.6	3490.9	3375.8	3319.4
17.5°	3463.9	3471.1	3490.9	3656.1	3778.4	3568.7	3433.7	3420.2	3435.3	3326.5	3263.0
20°	3626.7	3632.3	3522.7	3398.8	3525.9	3699.0	3448.0	3282.9	3348.8	3245.5	3189.9
22.5°	3722.0	3719.6	3723.6	3681.5	3383.7	3512.4	3507.6	3240.8	3263.8	3170.1	3115.3
25°	3682.3	3664.0	3652.9	3663.2	3663.2	3297.9	3524.3	3232.0	3198.7	3085.1	3019.2
27.5°	3672.8	3666.4	3616.4	3625.9	3582.2	3445.6	3288.4	3224.1	3116.1	2983.5	2936.6
30°	3973.7	3977.7	3888.8	3635.4	3511.6	3473.4	3116.9	3247.1	2977.9	2891.4	2850.9
32.5°	4192.1	4188.1	4111.1	3893.5	3516.3	3358.3	3198.7	3178.0	2863.6	2813.5	2757.2
35°	4272.3	4261.2	4125.4	4022.2	3741.9	3315.4	3261.4	3020.8	2800.8	2734.1	2666.6
37.5°	4190.5	4200.8	4098.4	4003.9	3770.4	3381.3	3136.7	2867.5	2749.2	2640.4	2538.0
40°	4325.5	4316.8	4269.1	3992.8	3697.4	3483.8	3028.7	2822.3	2725.4	2530.0	2410.1
42.5°	4418.4	4392.2	4382.7	4105.6	3688.6	3407.5	3023.2	2875.5	2675.4	2392.7	2242.6
45°	4296.9	4320.0	4335.8	4082.5	3818.1	3314.6	3108.2	2776.2	2522.1	2241.8	2059.1
47.5°	4458.9	4432.7	4246.9	4114.3	3722.8	3343.2	2989.8	2600.7	2364.1	2077.4	1897.9
49°	4627.3	4598.7	4451.8	4033.3	3699.0	3399.6	2912.0	2534.0	2256.1	1971.0	1786.0
50°	4549.5	4541.5	4508.2	4142.9	3727.6	3361.5	2877.1	2480.8	2190.2	1908.2	1719.3
52.5°	4315.2	4293.0	4341.4	4219.1	3772.8	3240.0	2830.2	2462.5	2040.9	1749.4	1571.5
55°	4180.2	4193.7	4180.2	4047.6	3830.0	3256.7	2814.3	2335.5	1923.3	1620.0	1435.8
57.5°	4404.9	4395.4	4224.7	3906.2	3735.5	3321.8	2668.2	2148.1	1784.4	1503.3	1311.9
60°	4157.2	4130.2	4196.1	4014.2	3556.0	3259.0	2565.8	2033.7	1661.3	1391.3	1183.2
62.5°	3969.0	3983.3	3876.9	3811.7	3588.6	3127.2	2535.6	1996.4	1564.4	1264.2	1052.2
65°	3973.7	3965.0	3910.2	3637.0	3405.9	3045.4	2437.1	1879.7	1504.0	1138.8	926.7
67.5°	4012.6	4008.7	3899.1	3649.7	3279.7	2900.9	2283.9	1774.8	1366.7	1027.6	799.7
70°	3901.5	3881.6	3823.6	3606.1	3261.4	2773.0	2167.9	1730.4	1238.0	909.3	651.2
72.5°	3776.8	3746.6	3662.4	3469.5	3182.0	2687.3	2009.9	1608.9	1159.4	767.1	508.2
75°	3402.8	3410.7	3413.9	3251.1	2989.0	2554.7	1865.4	1408.8	1033.1	623.4	386.7
77.5°	3308.3	3273.3	3174.9	3015.2	2810.4	2399.8	1718.5	1247.5	925.9	485.2	281.9
80°	3277.3	3237.6	3147.1	2889.8	2614.2	2222.7	1572.3	1102.2	782.2	358.9	197.7
82.5°	2869.1	2865.9	2803.2	2692.8	2373.6	1978.9	1397.6	955.3	628.9	258.9	135.0
85°	2528.5	2530.0	2463.3	2291.8	2122.7	1740.7	1224.5	817.1	501.1	184.2	91.3
87.5°	2252.1	2265.6	2190.2	2024.2	1809.0	1508.0	1041.1	686.1	385.1	125.5	61.1
90°	1966.2	1959.1	1893.2	1750.2	1563.6	1246.8	862.4	551.9	289.1	85.0	42.9
92.5°	1604.9	1585.0	1541.4	1431.0	1308.7	1044.3	695.6	425.6	218.4	61.9	36.5
95°	1350.0	1349.2	1282.5	1199.9	1055.4	860.0	569.4	342.3	175.5	52.4	36.5
97.5°	1060.9	1078.4	1033.9	987.9	871.1	697.2	470.9	280.3	141.4	49.2	38.1
100°	906.9	903.7	862.4	794.1	701.2	565.4	385.1	235.9	119.1	49.2	39.7
102.5°	793.3	800.5	771.9	698.0	590.0	459.8	317.6	199.3	101.6	51.6	41.3
105°	671.8	665.5	642.4	590.0	514.6	386.7	266.0	166.8	88.9	52.4	42.1
107.5°	563.0	569.4	550.3	500.3	425.6	327.2	225.5	140.6	80.2	52.4	42.1

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Scaled Data Report

REPORT NUMBER: P979154
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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	*489.2*	490.0	466.1	421.7	356.6	277.1	189.8	120.7	75.4	51.6	41.3
112.5°	*432.0*	428.0	412.1	361.3	301.8	228.7	162.0	104.8	71.5	50.0	40.5
115°	*370.9*	370.1	351.0	311.3	254.1	196.9	139.0	92.1	68.3	49.2	38.9
117.5°	*322.4*	321.6	304.9	265.2	216.0	169.1	121.5	82.6	65.1	46.1	36.5
120°	*282.7*	277.9	263.6	226.3	185.0	145.3	106.4	75.4	61.1	42.1	33.4
122.5°	*236.6*	232.7	221.6	190.6	157.2	126.3	95.3	69.1	55.6	38.1	29.4
125°	*199.3*	197.7	185.0	160.4	136.6	112.0	85.0	62.7	50.0	33.4	26.2
127.5°	*165.2*	162.8	152.5	137.4	119.9	99.3	77.0	58.0	44.5	29.4	23.0
130°	*136.6*	135.8	129.4	120.7	108.0	90.5	70.7	53.2	39.7	26.2	20.6
132.5°	*115.9*	114.4	113.6	109.6	99.3	82.6	64.3	49.2	34.9	23.0	18.3
135°	*104.8*	104.0	106.4	103.2	91.3	73.9	58.0	45.3	31.0	19.9	15.9
137.5°	*104.8*	104.8	104.8	97.7	81.8	65.1	51.6	40.5	27.0	17.5	13.5
140°	*107.2*	106.4	100.1	88.1	71.5	57.2	45.3	34.9	22.2	14.3	11.1
142.5°	*95.3*	92.9	86.6	74.6	60.4	49.2	39.7	29.4	18.3	11.9	9.5
145°	*77.0*	76.2	70.7	61.1	50.8	42.1	34.1	24.6	14.3	9.5	7.1
147.5°	*58.8*	58.8	55.6	50.0	42.9	36.5	29.4	19.9	11.1	7.9	6.4
150°	*46.9*	46.9	44.5	40.5	35.7	30.2	23.0	15.1	7.9	6.4	5.6
152.5°	*38.1*	38.1	35.7	32.6	29.4	24.6	17.5	10.3	7.1	5.6	4.8
155°	*29.4*	29.4	28.6	26.2	23.0	18.3	11.9	7.1	5.6	4.0	4.0
157.5°	*23.8*	23.0	21.4	19.9	17.5	12.7	7.9	5.6	4.8	4.0	3.2
160°	*17.5*	17.5	16.7	14.3	11.9	7.9	5.6	4.8	4.0	3.2	2.4
162.5°	*12.7*	12.7	11.9	9.5	7.9	5.6	4.8	4.0	3.2	3.2	2.4
165°	*7.9*	7.9	7.1	6.4	4.8	4.8	4.0	3.2	3.2	2.4	2.4
167.5°	*5.6*	4.8	4.8	4.0	4.0	3.2	3.2	3.2	3.2	3.2	2.4
170°	*2.4*	2.4	2.4	3.2	3.2	3.2	3.2	3.2	3.2	3.2	2.4
172.5°	*0.8*	0.8	1.6	2.4	2.4	3.2	3.2	3.2	3.2	3.2	2.4
175°	*0.0*	0.8	1.6	1.6	2.4	3.2	3.2	3.2	3.2	2.4	2.4
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°	3443.3	3443.3	3443.3	3443.3	3443.3	3443.3	3443.3	3443.3	3443.3	3443.3
2.5°	3455.2	3462.3	3453.6	3419.4	3404.4	3415.5	3426.6	3425.8	3430.6	3432.9
5°	3458.4	3417.1	3411.5	3405.1	3358.3	3272.5	3226.5	3193.1	3174.9	3173.3
7.5°	3439.3	3405.1	3371.8	3239.2	3075.6	2951.7	2838.9	2781.8	2717.4	2706.3
10°	3421.8	3399.6	3219.3	2991.4	2761.9	2661.9	2618.2	2605.5	2585.6	2591.2
12.5°	3353.5	3305.1	3028.7	2727.8	2600.7	2555.5	2459.4	2355.3	2279.1	2299.7
15°	3308.3	3178.8	2823.9	2584.0	2495.9	2272.0	2104.4	2014.7	1977.3	1975.7
17.5°	3240.0	3016.0	2611.8	2481.6	2206.8	1988.5	1874.1	1782.0	1714.5	1697.0
20°	3154.2	2831.0	2495.9	2260.0	1966.2	1762.1	1628.7	1551.7	1509.6	1496.9
22.5°	3070.0	2684.9	2363.3	2003.5	1744.7	1556.5	1405.6	1273.0	1198.3	1198.3
25°	2970.8	2503.0	2189.4	1804.2	1536.6	1334.1	1123.7	960.1	887.0	875.9
27.5°	2852.4	2343.4	1985.3	1603.3	1334.1	1052.2	848.9	725.0	678.2	671.0
30°	2728.6	2198.1	1794.7	1419.9	1105.4	821.1	662.3	578.9	539.2	532.8
32.5°	2603.9	2070.2	1617.6	1230.1	881.5	649.6	530.5	473.3	445.5	447.1
35°	2450.6	1924.1	1441.3	1045.8	708.3	528.9	447.1	399.4	372.4	369.3
37.5°	2315.6	1756.6	1257.9	863.2	567.8	439.1	370.9	339.1	318.4	312.9
40°	2157.6	1590.6	1072.8	694.1	473.3	372.4	318.4	282.7	263.6	265.2
42.5°	1983.7	1398.4	917.2	558.3	400.2	317.6	266.0	234.3	217.6	218.4
45°	1796.3	1238.0	775.1	461.4	335.9	264.4	216.8	187.4	171.5	169.9
47.5°	1613.6	1083.2	645.6	388.3	280.3	216.8	173.1	146.1	135.0	134.2
49°	*1514.4*	*1003.8*	*574.9*	*353.4*	*252.5*	*193.8*	*150.9*	*126.3*	*115.1*	*114.4*
50°	1451.6	949.8	532.8	331.9	234.3	177.9	138.2	115.9	102.4	102.4
52.5°	1316.6	817.9	437.6	285.9	195.4	142.9	107.2	88.9	81.8	80.2
55°	1172.9	692.5	371.6	239.8	162.0	112.8	83.4	67.5	59.6	57.2
57.5°	1037.9	578.9	320.0	201.7	131.8	87.4	61.1	46.9	41.3	40.5
60°	910.8	478.8	276.4	170.7	105.6	65.1	42.9	30.2	25.4	25.4
62.5°	792.5	392.3	235.9	142.9	81.8	46.1	24.6	15.9	15.1	15.9
65°	664.7	328.0	200.9	115.9	60.4	29.4	9.5	4.0	4.0	4.0
67.5°	540.8	273.2	169.9	92.1	42.1	13.5	0.0	0.0	0.0	0.0
70°	428.8	228.7	142.1	73.1	27.0	3.2	0.0	0.0	0.0	0.0
72.5°	328.8	190.6	119.1	55.6	15.1	0.0	0.0	0.0	0.0	0.0
75°	249.4	154.1	96.1	41.3	5.6	0.0	0.0	0.0	0.0	0.0
77.5°	183.4	122.3	77.0	28.6	2.4	0.0	0.0	0.0	0.0	0.0
80°	136.6	96.1	59.6	20.6	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	100.1	76.2	45.3	14.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	70.7	61.1	35.7	10.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	52.4	49.2	29.4	7.9	0.0	0.0	0.0	0.0	0.0	0.0
90°	41.3	40.5	23.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	35.7	34.1	19.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	33.4	30.2	16.7	4.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	33.4	27.0	14.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0
100°	34.1	24.6	11.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	34.1	23.0	11.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0
105°	34.1	21.4	9.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	34.1	19.9	7.9	1.6	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: P979154
CATALOG NUMBER: WPMLED26S-70W-3500K

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	33.4	18.3	7.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	31.8	16.7	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0
115°	31.0	15.1	4.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	28.6	13.5	4.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0
120°	25.4	11.9	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	22.2	10.3	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0
125°	19.9	8.7	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	17.5	7.9	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0
130°	15.1	7.1	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	13.5	6.4	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0
135°	11.9	5.6	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	10.3	4.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	8.7	4.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	7.1	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	6.4	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	5.6	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	4.8	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	4.0	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	3.2	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	1.6	0.8	0.8	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

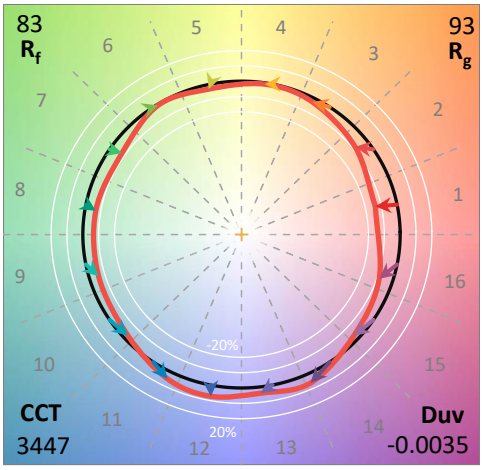
Test Information

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

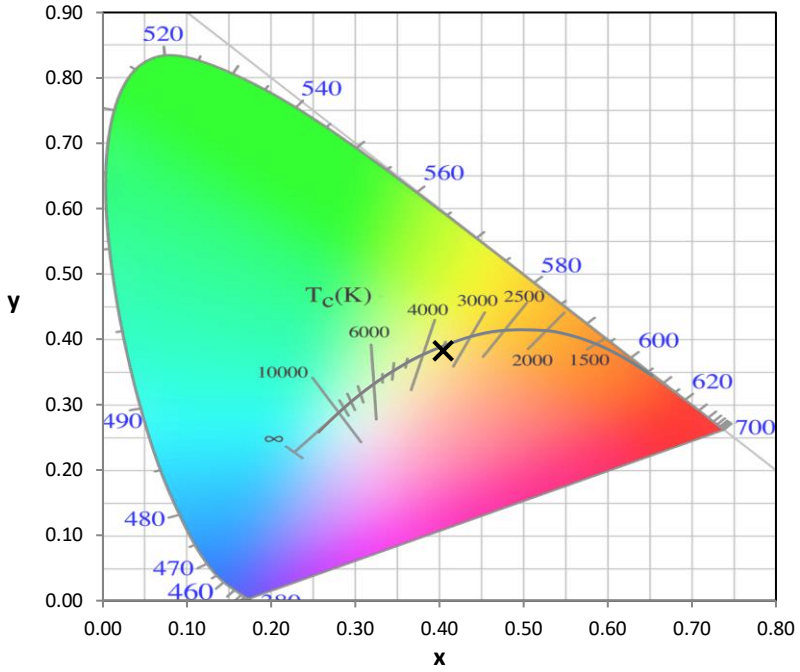
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2407-168-2

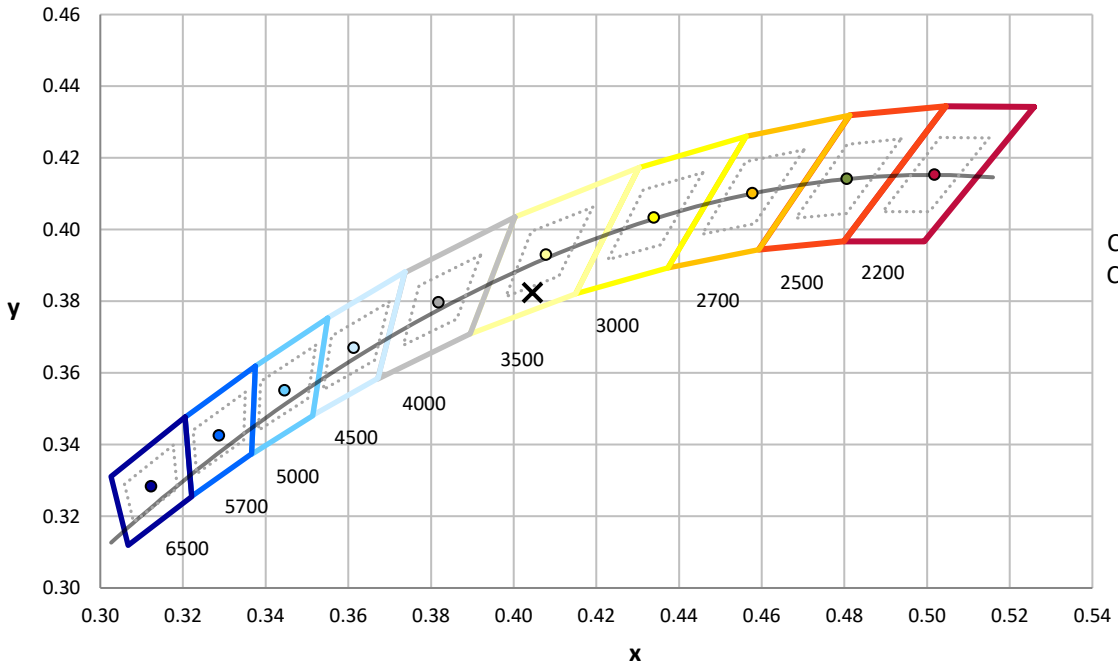
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

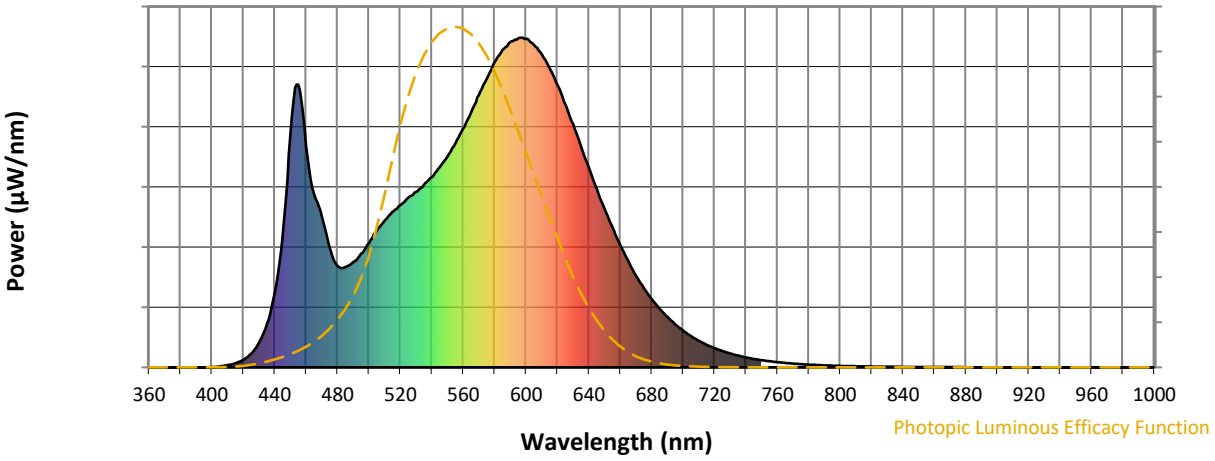


CCT = 3447K
CIE x = 0.4046
CIE y = 0.3824
Duv = -0.0035

Point lies inside the ANSI 3500K 7-step quadrangle

REPORT NUMBER: SP1-2407-168-2

Photopic Flux vs. Wavelength

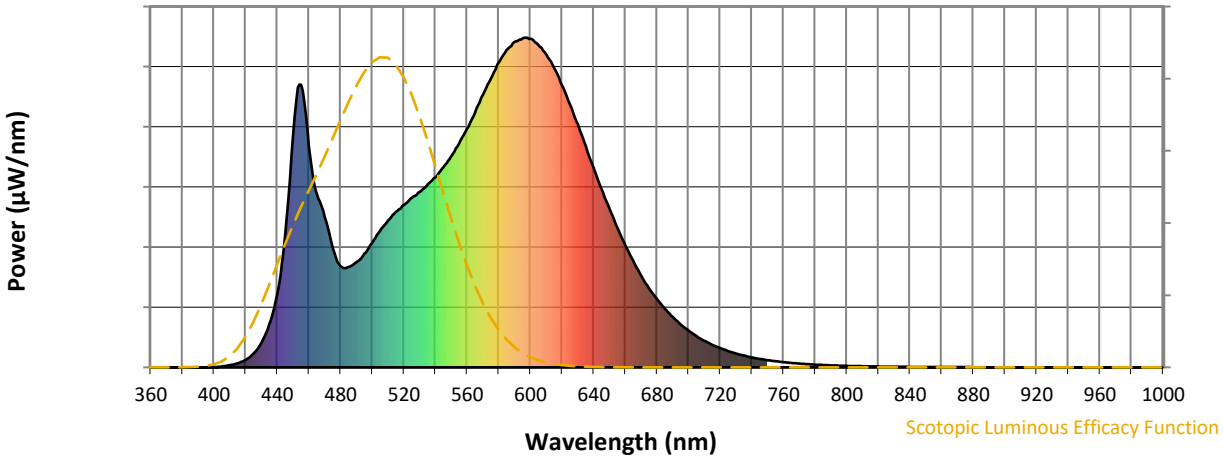


Photopic Lumens: NR

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

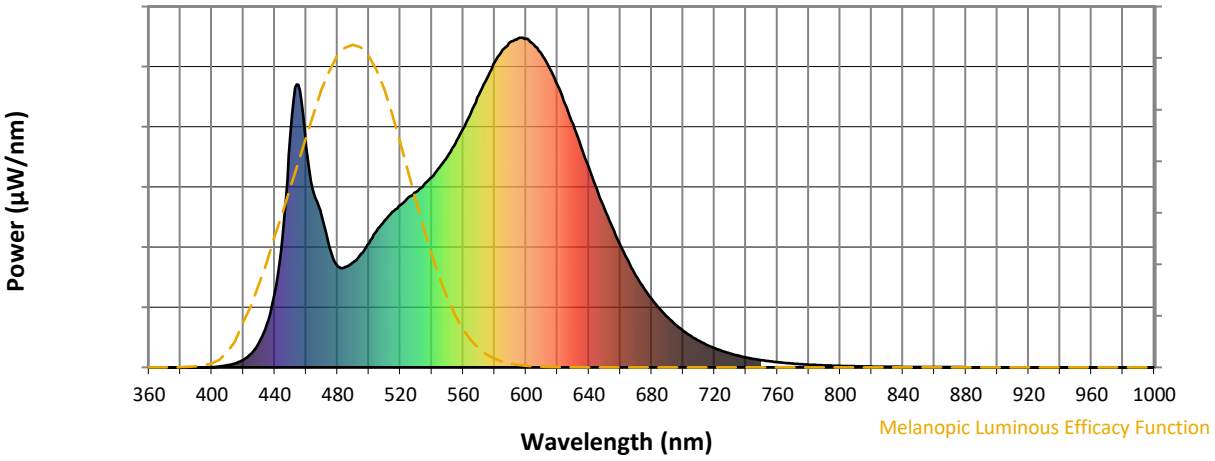


Scotopic Lumens: NR **S/P: 1.56**

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			

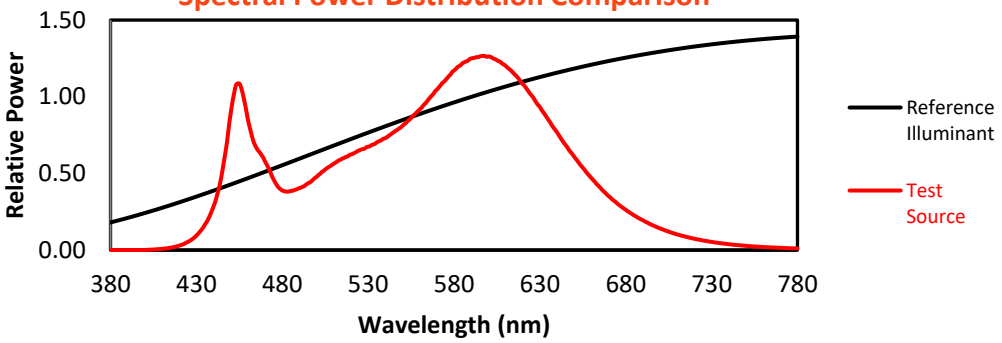
REPORT NUMBER: SP1-2407-168-2

TM-30-18

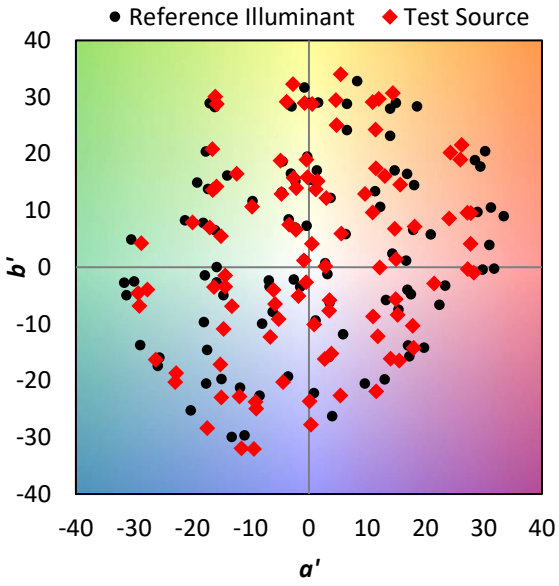
Summary

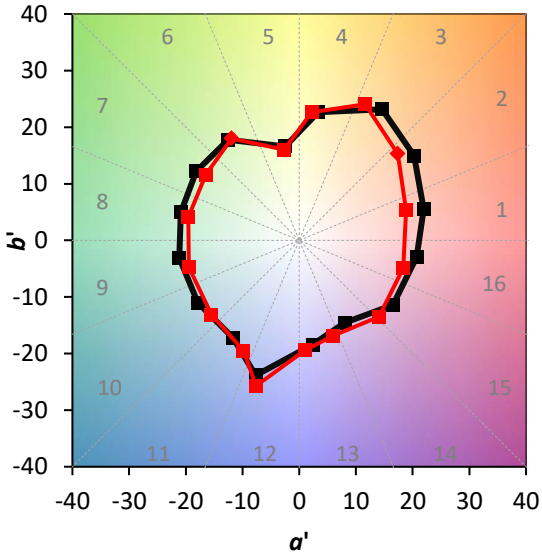
R_f = 82.6
R_g = 93
CIE R_a = 81.3
R_9 = -0.6

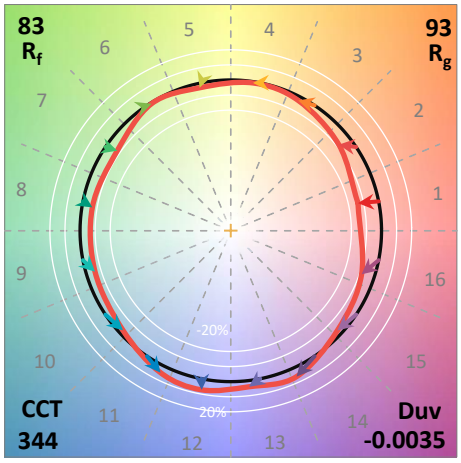
Spectral Power Distribution Comparison

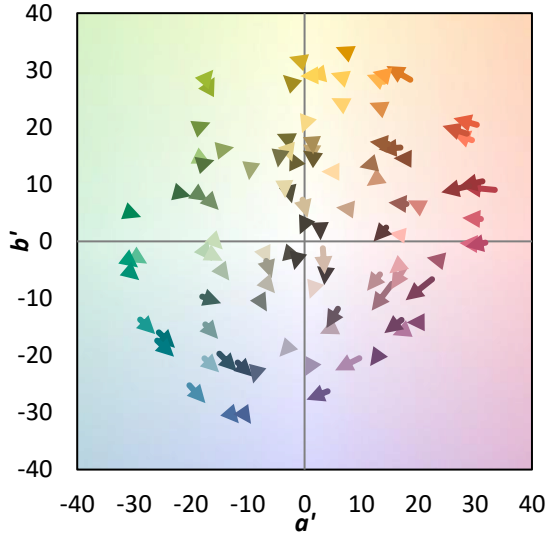


Color Vector Graphics







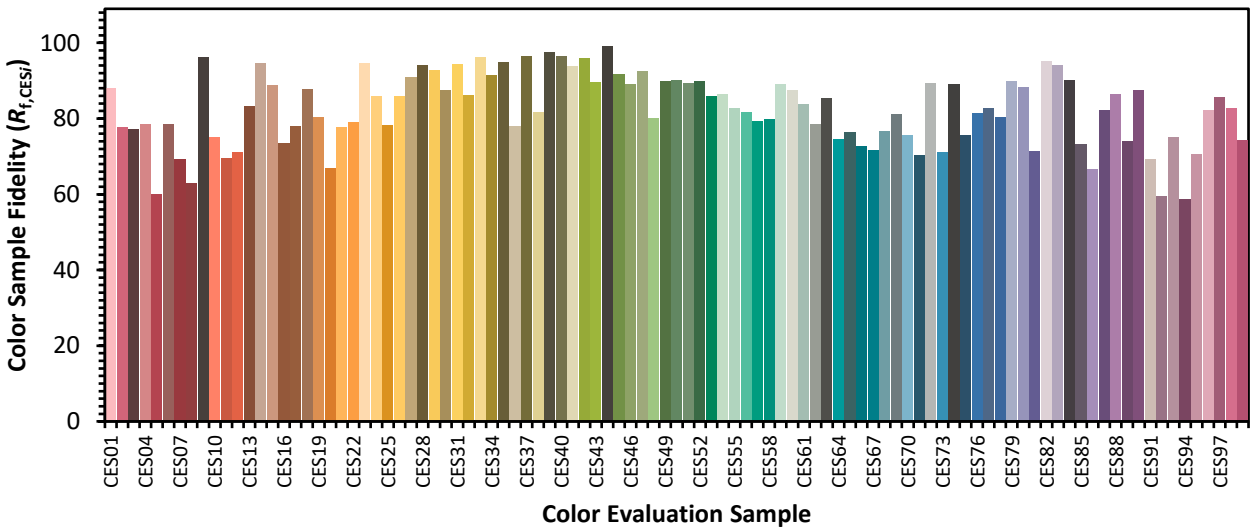


REPORT NUMBER: SP1-2407-168-2

TM-30-18

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

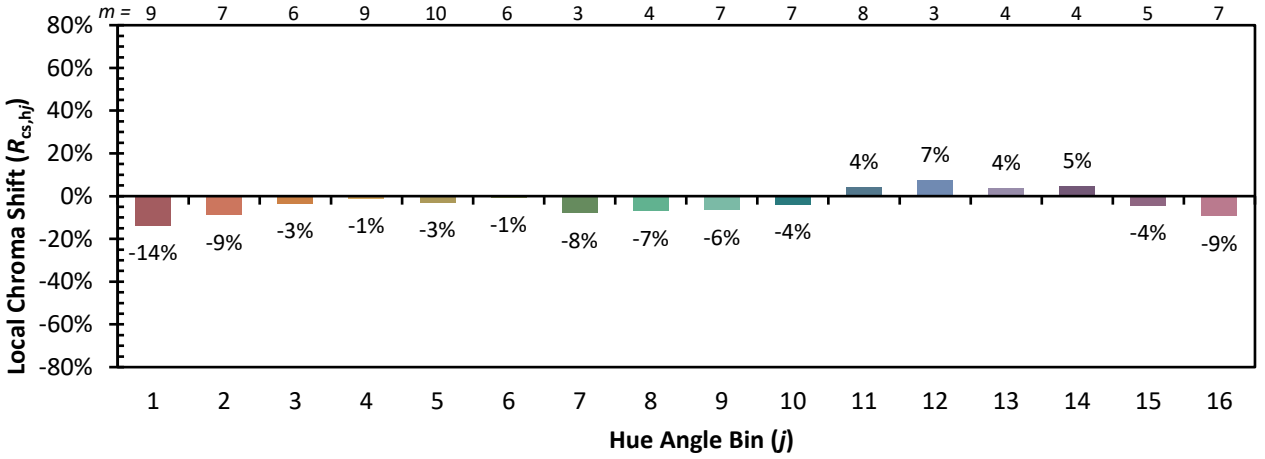
CES01 = 86	CES26 = 86	CES51 = 89	CES76 = 81
CES02 = 62	CES27 = 91	CES52 = 90	CES77 = 83
CES03 = 31	CES28 = 94	CES53 = 86	CES78 = 80
CES04 = 70	CES29 = 93	CES54 = 86	CES79 = 90
CES05 = 49	CES30 = 87	CES55 = 83	CES80 = 88
CES06 = 51	CES31 = 94	CES56 = 82	CES81 = 71
CES07 = 41	CES32 = 86	CES57 = 79	CES82 = 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	

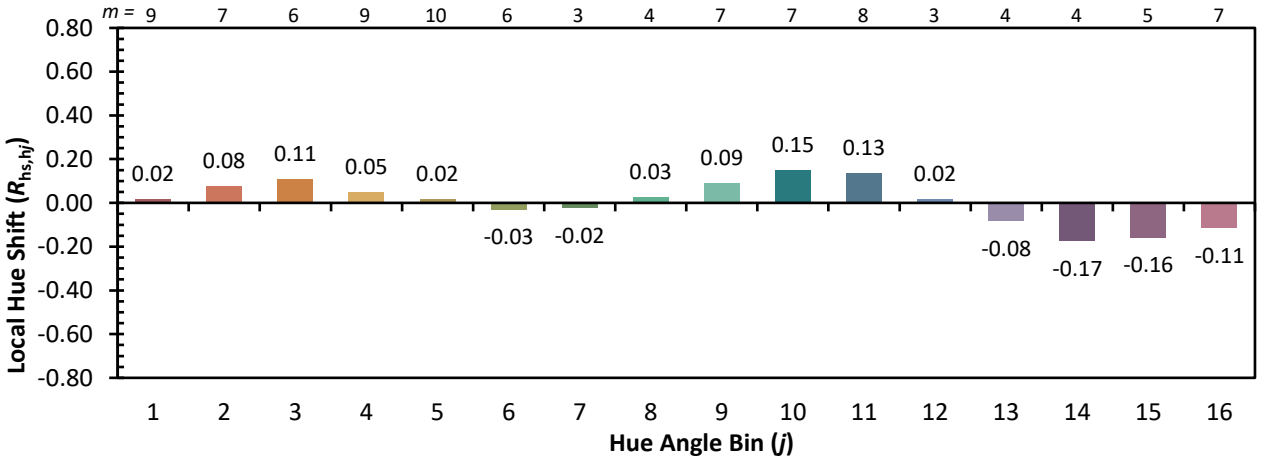


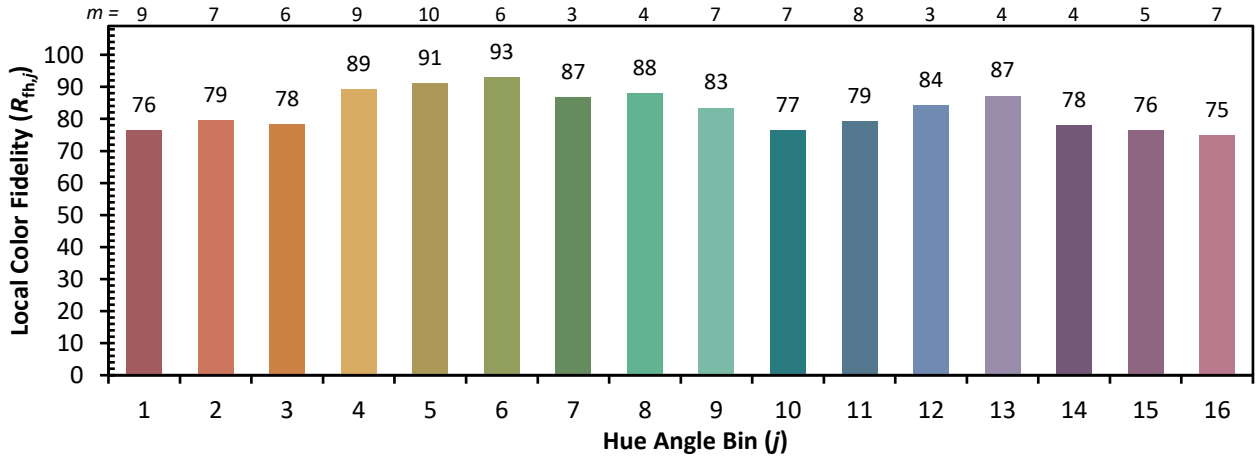
REPORT NUMBER: SP1-2407-168-2

TM-30-18

Color Rendition by Hue-Angle Bin







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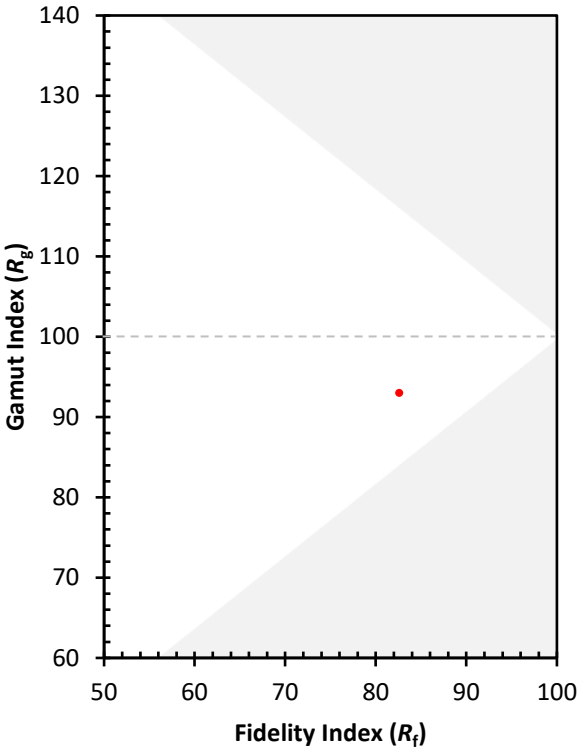
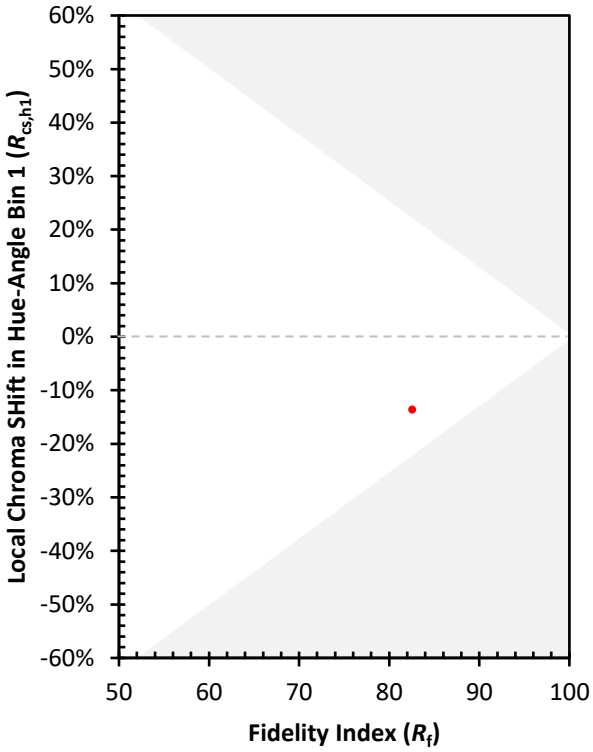
Measure Comparisons





(END OF REPORT)