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: P979139

Luminaire Tested: **WPMLED26S-100W-3500K**

Issue Date: 03/31/2025

Report Generated By 670245763

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P979139
Test Lab:	Cooper Lighting Solutions
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	LUMARK
Catalog Number:	WPMLED26S-100W-3500K
Description:	LUMARK WALL PACK LED MEDIUM 80CRI CCT AND LUMEN SELECTIVE FIXTURE OPERATING @100W-3500K
Light Source:	3500K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	14531.5 lumens
Efficiency:	N/A
Efficacy:	147.7 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 - U4 - G5

Input Watts (W):	98.4
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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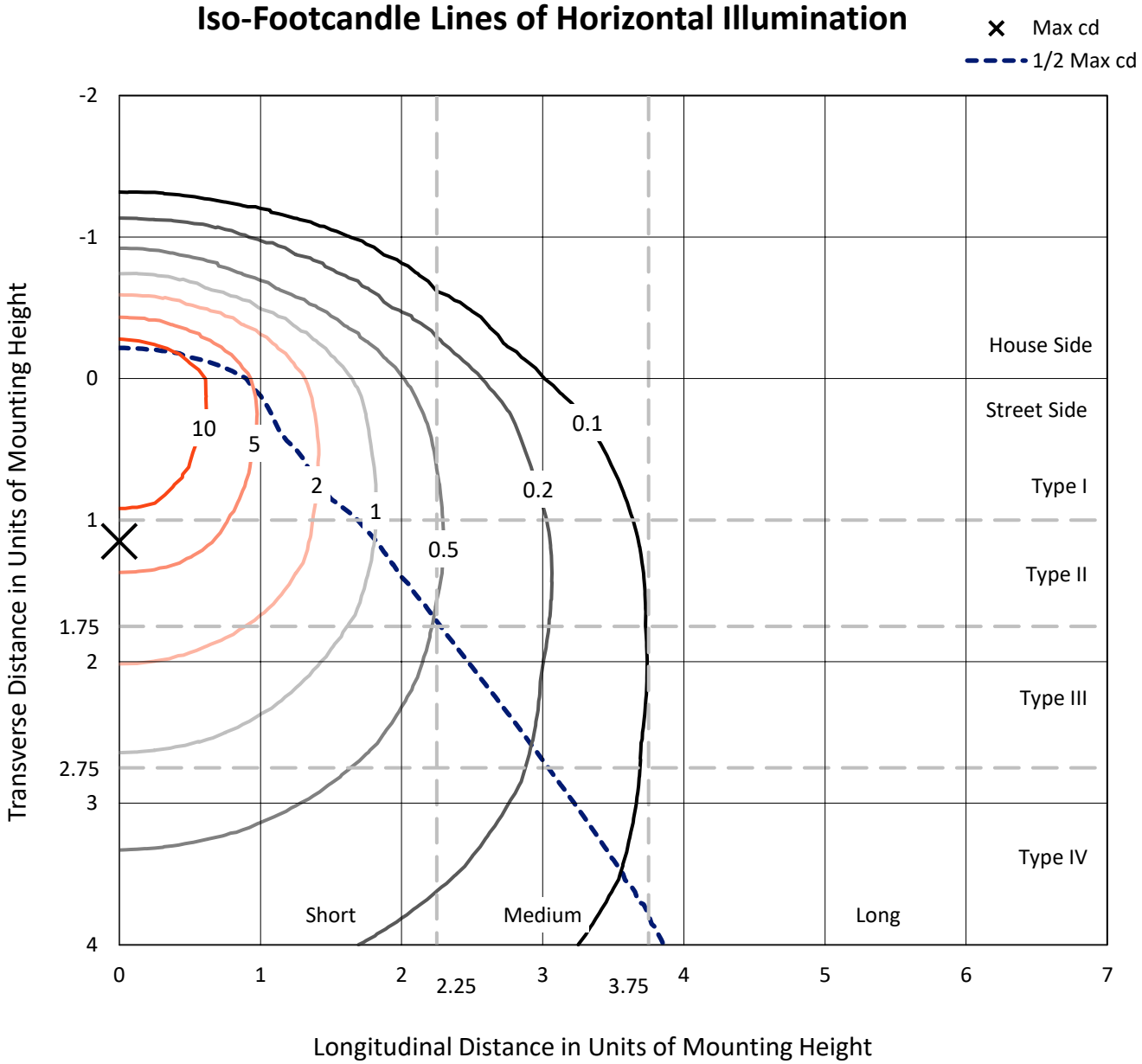
Iso-Footcandle Lines of Horizontal Illumination



Based on 15 foot mounting height. Maximum calculated value = 19.9 fc
Type IV - Short - N/A

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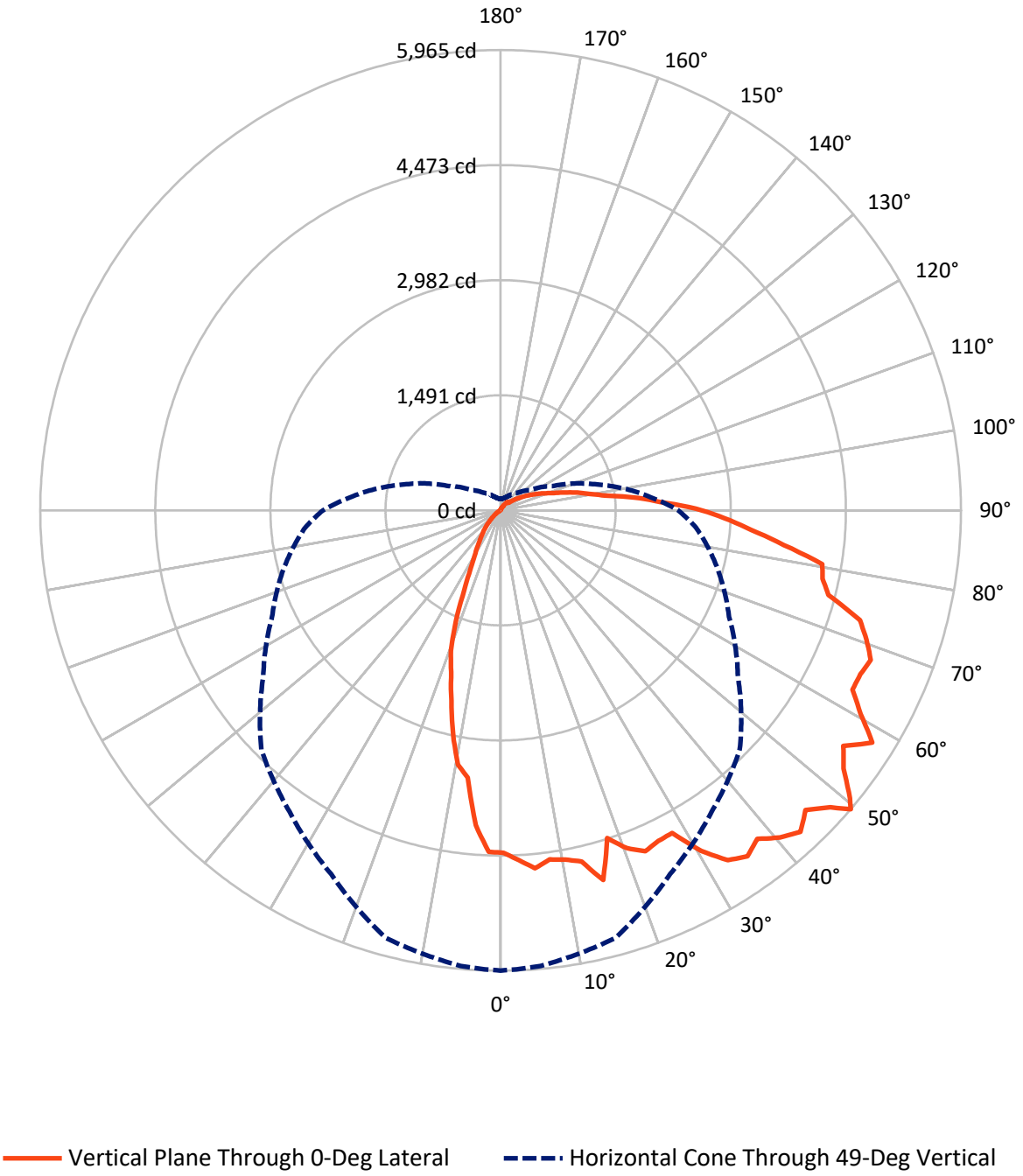
Luminous Intensity Polar Plot



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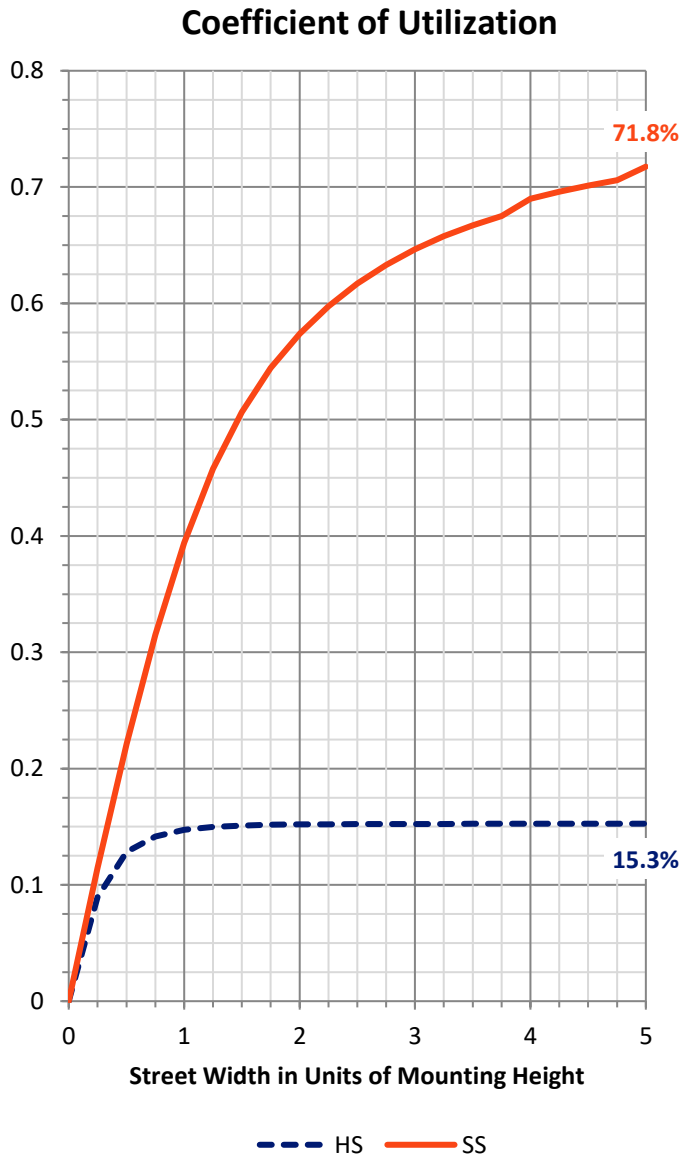
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2244.4	20.0	2264.4
	% Fixture	15.4	0.1	15.6
Street Side	Lumens	11194.3	1072.8	12267.1
	% Fixture	77.0	7.4	84.4
Total	Lumens	13438.7	1092.8	14531.5
	% Fixture	92.5	7.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.5	2.8
10°-20°	1098.8	7.6
20°-30°	1526.6	10.5
30°-40°	1815.0	12.5
40°-50°	1990.7	13.7
50°-60°	2008.2	13.8
60°-70°	1878.1	12.9
70°-80°	1603.6	11.0
80°-90°	1105.3	7.6
90°-100°	558.2	3.8
100°-110°	266.3	1.8
110°-120°	136.7	0.9
120°-130°	69.5	0.5
130°-140°	36.9	0.3
140°-150°	18.2	0.1
150°-160°	5.7	0.0
160°-170°	1.1	0.0
170°-180°	0.2	0.0
0°-90°	13438.7	92.5
0°-180°	14531.5	100.0



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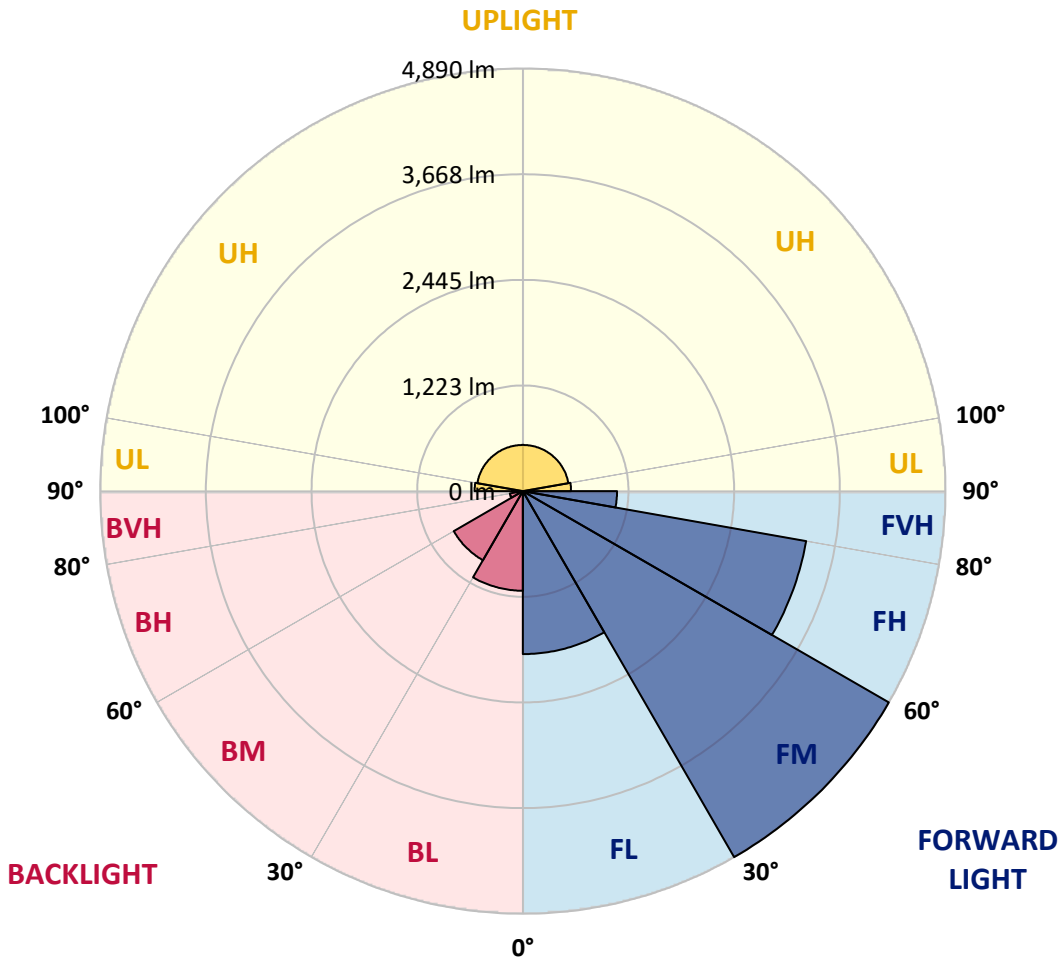
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1885.3	13.0			
FM	(30°-60°)	4890.1	33.7			
FH	(60°-80°)	3329.0	22.9			G2/5000
FVH	(80°-90°)	1089.9	7.5			G5
BL	(0°-30°)	1152.5	7.9	B3/2500		
BM	(30°-60°)	923.8	6.4	B1/1000		
BH	(60°-80°)	152.7	1.1	B1/500		G1/500
BVH	(80°-90°)	15.4	0.1			G1/100
UL	(90°-100°)	558.2	3.8		U4/1000	
UH	(100°-180°)	534.6	3.7		U4/1000	

BUG Rating: B3-U4-G5
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3
2.5°	4537.6	4553.0	4534.5	4534.5	4528.4	4513.0	4521.2	4497.7	4450.6	4426.0	4452.6
5°	4658.4	4653.3	4673.7	4692.2	4675.8	4584.7	4550.9	4478.2	4510.0	4424.0	4434.2
7.5°	4568.3	4557.1	4583.7	4662.5	4673.7	4654.3	4666.6	4555.0	4510.0	4402.5	4415.8
10°	4601.1	4601.1	4542.7	4508.9	4511.0	4575.5	4640.0	4668.6	4479.3	4407.6	4382.0
12.5°	4669.6	4665.6	4628.7	4610.3	4545.8	4480.3	4556.0	4587.8	4495.6	4393.3	4336.0
15°	4970.6	4939.9	4939.9	4774.1	4621.5	4548.9	4430.1	4526.3	4499.7	4351.3	4278.6
17.5°	4464.9	4474.1	4499.7	4712.6	4870.3	4600.0	4426.0	4408.6	4428.1	4287.8	4206.0
20°	4674.8	4681.9	4540.7	4381.0	4544.8	4767.9	4444.5	4231.5	4316.5	4183.4	4111.8
22.5°	4797.6	4794.5	4799.6	4745.4	4361.5	4527.4	4521.2	4177.3	4207.0	4086.2	4015.6
25°	4746.4	4722.9	4708.5	4721.9	4721.9	4251.0	4542.7	4166.0	4123.0	3976.7	3891.7
27.5°	4734.1	4725.9	4661.5	4673.7	4617.4	4441.4	4238.7	4155.8	4016.6	3845.7	3785.3
30°	5122.1	5127.2	5012.6	4686.0	4526.3	4477.2	4017.6	4185.5	3838.5	3726.9	3674.7
32.5°	5403.6	5398.4	5299.2	5018.7	4532.5	4328.8	4123.0	4096.4	3691.1	3626.6	3553.9
35°	5506.9	5492.6	5317.6	5184.5	4823.2	4273.5	4203.9	3893.8	3610.2	3524.2	3437.2
37.5°	5401.5	5414.8	5282.8	5161.0	4860.0	4358.5	4043.2	3696.2	3543.7	3403.5	3271.4
40°	5575.5	5564.3	5502.9	5146.6	4765.9	4490.5	3904.0	3637.9	3513.0	3261.2	3106.6
42.5°	5695.3	5661.5	5649.2	5292.0	4754.6	4392.3	3896.8	3706.4	3448.5	3084.1	2890.6
45°	5538.7	5568.4	5588.8	5262.3	4921.5	4272.5	4006.4	3578.5	3250.9	2889.6	2654.2
47.5°	5747.5	5713.7	5474.2	5303.3	4798.6	4309.3	3853.8	3352.3	3047.2	2677.7	2446.4
49°	5964.5	5927.6	5738.3	5198.8	4767.9	4382.0	3753.5	3266.3	2908.0	2540.6	2302.1
50°	5864.2	5853.9	5811.0	5340.1	4804.8	4332.9	3708.5	3197.7	2823.1	2459.7	2216.1
52.5°	5562.2	5533.6	5596.0	5438.4	4863.1	4176.3	3648.1	3174.2	2630.6	2255.0	2025.7
55°	5388.2	5405.6	5388.2	5217.3	4936.8	4197.8	3627.6	3010.4	2479.2	2088.1	1850.7
57.5°	5677.9	5665.6	5445.5	5035.1	4815.0	4281.7	3439.3	2768.8	2300.0	1937.7	1691.0
60°	5358.5	5323.7	5408.7	5174.3	4583.7	4200.8	3307.2	2621.4	2141.4	1793.3	1525.2
62.5°	5115.9	5134.4	4997.2	4913.3	4625.6	4030.9	3268.3	2573.3	2016.5	1629.6	1356.3
65°	5122.1	5110.8	5040.2	4688.1	4390.2	3925.5	3141.4	2422.9	1938.7	1467.8	1194.5
67.5°	5172.2	5167.1	5025.9	4704.4	4227.5	3739.2	2943.9	2287.7	1761.6	1324.5	1030.8
70°	5028.9	5003.3	4928.6	4648.2	4203.9	3574.4	2794.4	2230.4	1595.8	1172.0	839.3
72.5°	4868.2	4829.3	4720.8	4472.1	4101.6	3463.9	2590.7	2073.8	1494.5	988.8	655.1
75°	4386.1	4396.3	4400.4	4190.6	3852.8	3292.9	2404.4	1815.9	1331.7	803.5	498.5
77.5°	4264.3	4219.3	4092.3	3886.6	3622.5	3093.3	2215.1	1608.1	1193.5	625.4	363.4
80°	4224.4	4173.2	4056.5	3724.9	3369.7	2865.0	2026.7	1420.8	1008.2	462.7	254.9
82.5°	3698.3	3694.2	3613.3	3471.0	3059.5	2550.8	1801.5	1231.4	810.7	333.7	174.0
85°	3259.1	3261.2	3175.2	2954.1	2736.1	2243.7	1578.4	1053.3	645.9	237.5	117.7
87.5°	2902.9	2920.3	2823.1	2609.1	2331.8	1943.8	1341.9	884.4	496.4	161.7	78.8
90°	2534.4	2525.2	2440.3	2256.0	2015.5	1607.0	1111.6	711.4	372.6	109.5	55.3
92.5°	2068.7	2043.1	1986.8	1844.5	1686.9	1346.0	896.7	548.6	281.5	79.8	47.1
95°	1740.1	1739.1	1653.1	1546.7	1360.4	1108.6	733.9	441.2	226.2	67.6	47.1
97.5°	1367.5	1390.0	1332.7	1273.4	1122.9	898.7	607.0	361.3	182.2	63.5	49.1
100°	1168.9	1164.9	1111.6	1023.6	903.8	728.8	496.4	304.0	153.5	63.5	51.2
102.5°	1022.6	1031.8	994.9	899.7	760.5	592.7	409.4	256.9	131.0	66.5	53.2
105°	866.0	857.8	828.1	760.5	663.3	498.5	342.9	215.0	114.6	67.6	54.3
107.5°	725.7	733.9	709.4	644.9	548.6	421.7	290.7	181.2	103.4	67.6	54.3

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	*630.5*	631.6	600.9	543.5	459.6	357.2	244.6	155.6	97.2	66.5	53.2
112.5°	*556.8*	551.7	531.2	465.7	389.0	294.8	208.8	135.1	92.1	64.5	52.2
115°	*478.0*	477.0	452.4	401.2	327.6	253.9	179.1	118.7	88.0	63.5	50.2
117.5°	*415.6*	414.6	393.1	341.9	278.4	218.0	156.6	106.5	83.9	59.4	47.1
120°	*364.4*	358.3	339.8	291.7	238.5	187.3	137.2	97.2	78.8	54.3	43.0
122.5°	*305.0*	299.9	285.6	245.7	202.7	162.8	122.8	89.1	71.7	49.1	37.9
125°	*256.9*	254.9	238.5	206.8	176.1	144.3	109.5	80.9	64.5	43.0	33.8
127.5°	*212.9*	209.8	196.5	177.1	154.6	127.9	99.3	74.7	57.3	37.9	29.7
130°	*176.1*	175.0	166.8	155.6	139.2	116.7	91.1	68.6	51.2	33.8	26.6
132.5°	*149.4*	147.4	146.4	141.3	127.9	106.5	82.9	63.5	45.0	29.7	23.5
135°	*135.1*	134.1	137.2	133.1	117.7	95.2	74.7	58.3	39.9	25.6	20.5
137.5°	*135.1*	135.1	135.1	125.9	105.4	83.9	66.5	52.2	34.8	22.5	17.4
140°	*138.2*	137.2	129.0	113.6	92.1	73.7	58.3	45.0	28.7	18.4	14.3
142.5°	*122.8*	119.8	111.6	96.2	77.8	63.5	51.2	37.9	23.5	15.4	12.3
145°	*99.3*	98.3	91.1	78.8	65.5	54.3	44.0	31.7	18.4	12.3	9.2
147.5°	*75.7*	75.7	71.7	64.5	55.3	47.1	37.9	25.6	14.3	10.2	8.2
150°	*60.4*	60.4	57.3	52.2	46.1	38.9	29.7	19.4	10.2	8.2	7.2
152.5°	*49.1*	49.1	46.1	42.0	37.9	31.7	22.5	13.3	9.2	7.2	6.1
155°	*37.9*	37.9	36.8	33.8	29.7	23.5	15.4	9.2	7.2	5.1	5.1
157.5°	*30.7*	29.7	27.6	25.6	22.5	16.4	10.2	7.2	6.1	5.1	4.1
160°	*22.5*	22.5	21.5	18.4	15.4	10.2	7.2	6.1	5.1	4.1	3.1
162.5°	*16.4*	16.4	15.4	12.3	10.2	7.2	6.1	5.1	4.1	4.1	3.1
165°	*10.2*	10.2	9.2	8.2	6.1	6.1	5.1	4.1	4.1	3.1	3.1
167.5°	*7.2*	6.1	6.1	5.1	5.1	4.1	4.1	4.1	4.1	4.1	3.1
170°	*3.1*	3.1	3.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	3.1
172.5°	*1.0*	1.0	2.0	3.1	3.1	4.1	4.1	4.1	4.1	4.1	3.1
175°	*0.0*	1.0	2.0	2.0	3.1	4.1	4.1	4.1	4.1	3.1	3.1
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°	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3
2.5°	4453.7	4462.9	4451.6	4407.6	4388.2	4402.5	4416.8	4415.8	4421.9	4425.0
5°	4457.8	4404.5	4397.4	4389.2	4328.8	4218.2	4158.9	4115.9	4092.3	4090.3
7.5°	4433.2	4389.2	4346.2	4175.3	3964.4	3804.7	3659.4	3585.7	3502.7	3488.4
10°	4410.7	4382.0	4149.7	3855.9	3560.1	3431.1	3374.8	3358.4	3332.8	3340.0
12.5°	4322.6	4260.2	3904.0	3516.1	3352.3	3293.9	3170.1	3036.0	2937.7	2964.3
15°	4264.3	4097.5	3639.9	3330.8	3217.2	2928.5	2712.5	2596.9	2548.8	2546.7
17.5°	4176.3	3887.6	3366.6	3198.7	2844.6	2563.1	2415.7	2297.0	2209.9	2187.4
20°	4065.7	3649.1	3217.2	2913.2	2534.4	2271.4	2099.4	2000.1	1945.9	1929.5
22.5°	3957.2	3460.8	3046.2	2582.5	2248.8	2006.2	1811.8	1640.8	1544.6	1544.6
25°	3829.3	3226.4	2822.1	2325.6	1980.7	1719.6	1448.4	1237.5	1143.4	1129.0
27.5°	3676.8	3020.6	2559.0	2066.6	1719.6	1356.3	1094.2	934.5	874.2	864.9
30°	3517.1	2833.3	2313.3	1830.2	1424.8	1058.4	853.7	746.2	695.0	686.8
32.5°	3356.4	2668.5	2085.1	1585.6	1136.2	837.3	683.8	610.1	574.2	576.3
35°	3158.8	2480.2	1857.8	1348.1	913.0	681.7	576.3	514.9	480.1	476.0
37.5°	2984.8	2264.2	1621.4	1112.6	731.9	566.0	478.0	437.1	410.5	403.3
40°	2781.1	2050.3	1382.9	894.6	610.1	480.1	410.5	364.4	339.8	341.9
42.5°	2556.9	1802.6	1182.3	719.6	515.9	409.4	342.9	302.0	280.5	281.5
45°	2315.4	1595.8	999.0	594.7	433.0	340.9	279.4	241.6	221.1	219.0
47.5°	2079.9	1396.2	832.2	500.5	361.3	279.4	223.1	188.3	174.0	173.0
49°	*1952.0*	*1293.8*	*741.1*	*455.5*	*325.5*	*249.8*	*194.5*	*162.8*	*148.4*	*147.4*
50°	1871.1	1224.2	686.8	427.9	302.0	229.3	178.1	149.4	132.0	132.0
52.5°	1697.1	1054.3	564.0	368.5	251.8	184.2	138.2	114.6	105.4	103.4
55°	1511.9	892.6	479.0	309.1	208.8	145.4	107.5	87.0	76.8	73.7
57.5°	1337.8	746.2	412.5	260.0	169.9	112.6	78.8	60.4	53.2	52.2
60°	1174.1	617.2	356.2	220.1	136.1	83.9	55.3	38.9	32.8	32.8
62.5°	1021.5	505.7	304.0	184.2	105.4	59.4	31.7	20.5	19.4	20.5
65°	856.8	422.7	259.0	149.4	77.8	37.9	12.3	5.1	5.1	5.1
67.5°	697.1	352.1	219.0	118.7	54.3	17.4	0.0	0.0	0.0	0.0
70°	552.7	294.8	183.2	94.2	34.8	4.1	0.0	0.0	0.0	0.0
72.5°	423.8	245.7	153.5	71.7	19.4	0.0	0.0	0.0	0.0	0.0
75°	321.4	198.6	123.9	53.2	7.2	0.0	0.0	0.0	0.0	0.0
77.5°	236.5	157.6	99.3	36.8	3.1	0.0	0.0	0.0	0.0	0.0
80°	176.1	123.9	76.8	26.6	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	129.0	98.3	58.3	18.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	91.1	78.8	46.1	13.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	67.6	63.5	37.9	10.2	0.0	0.0	0.0	0.0	0.0	0.0
90°	53.2	52.2	29.7	7.2	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	46.1	44.0	25.6	5.1	0.0	0.0	0.0	0.0	0.0	0.0
95°	43.0	38.9	21.5	5.1	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	43.0	34.8	18.4	4.1	0.0	0.0	0.0	0.0	0.0	0.0
100°	44.0	31.7	15.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	44.0	29.7	14.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0
105°	44.0	27.6	12.3	2.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	44.0	25.6	10.2	2.0	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: P979139
CATALOG NUMBER: WPMLED26S-100W-3500K

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	43.0	23.5	9.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	40.9	21.5	6.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	39.9	19.4	5.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	36.8	17.4	5.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	32.8	15.4	4.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	28.7	13.3	4.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	25.6	11.3	4.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	22.5	10.2	4.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	19.4	9.2	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	17.4	8.2	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	15.4	7.2	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	13.3	6.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	11.3	5.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	9.2	4.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	8.2	4.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	7.2	4.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	6.1	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	5.1	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	4.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	2.0	1.0	1.0	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

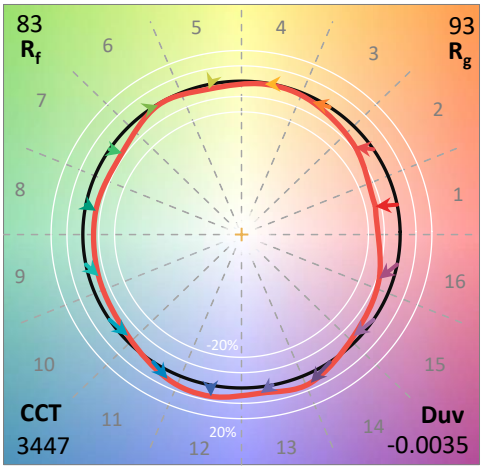
Test Information

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

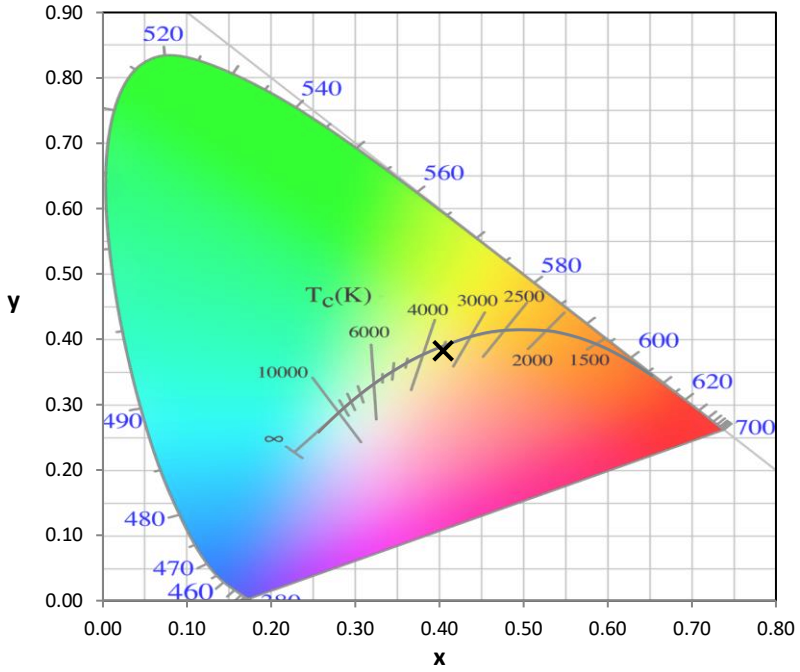
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2407-168-2

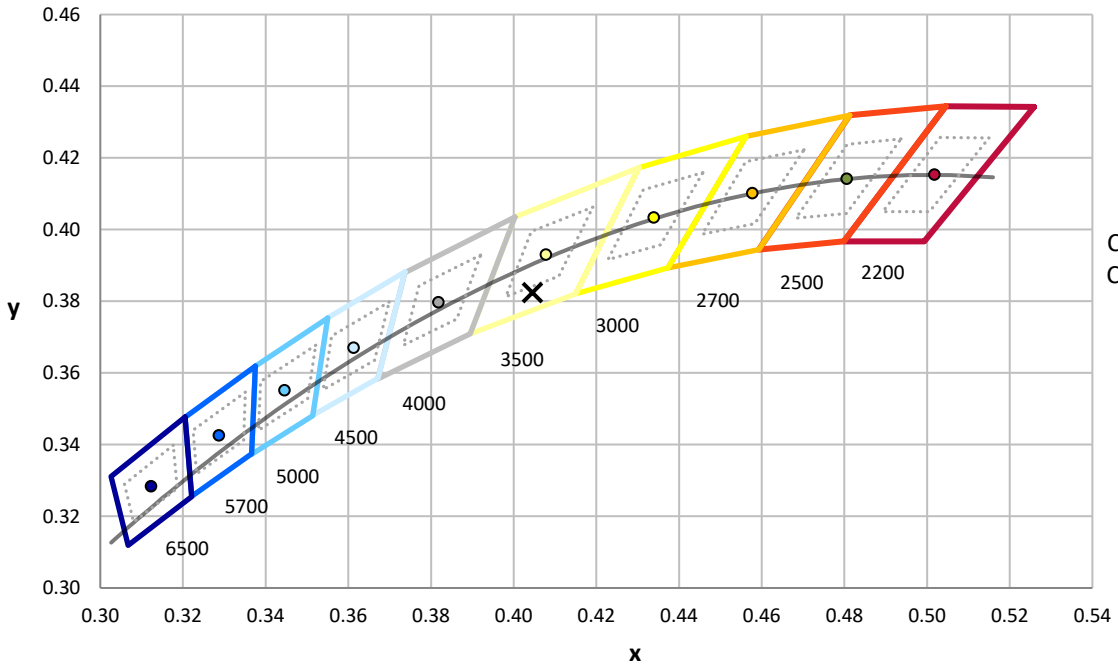
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

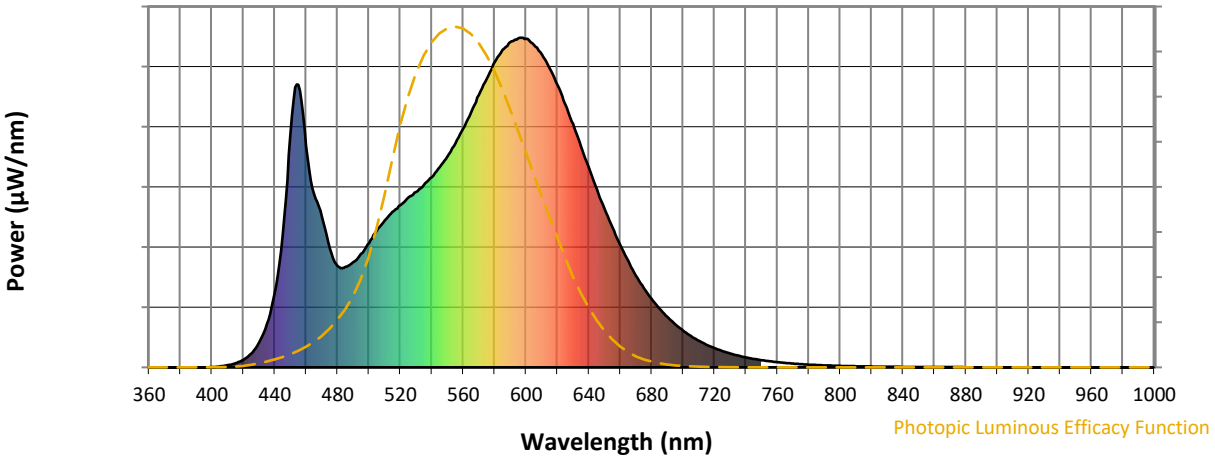


CCT = 3447K
CIE x = 0.4046
CIE y = 0.3824
Duv = -0.0035

Point lies inside the ANSI 3500K 7-step quadrangle

REPORT NUMBER: SP1-2407-168-2

Photopic Flux vs. Wavelength

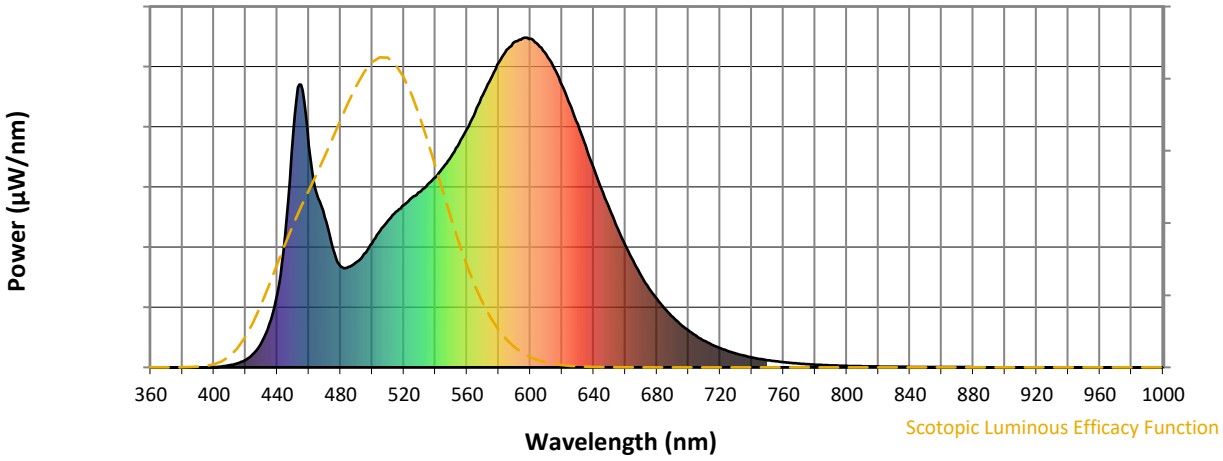


Photopic Lumens: NR

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

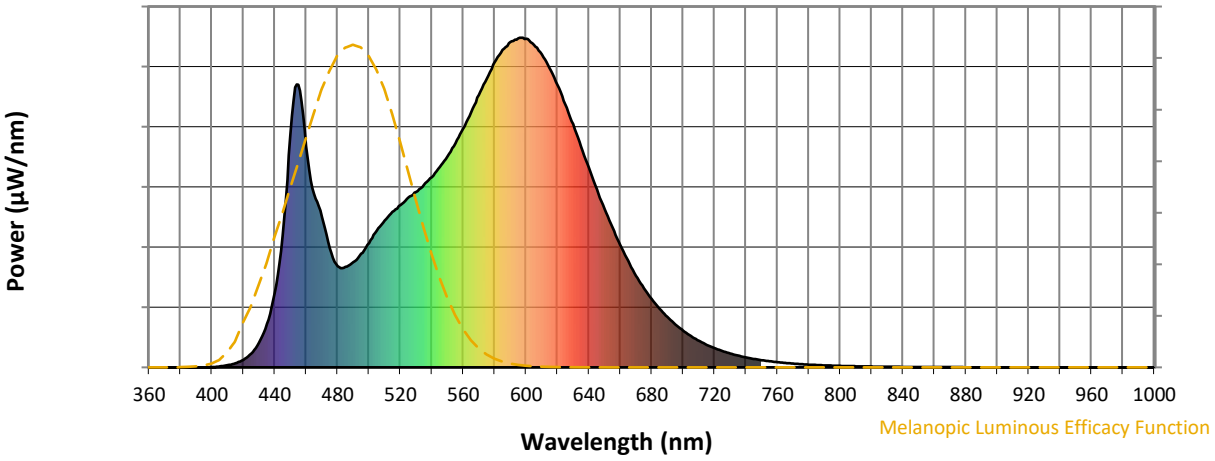


Scotopic Lumens: NR **S/P: 1.56**

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			

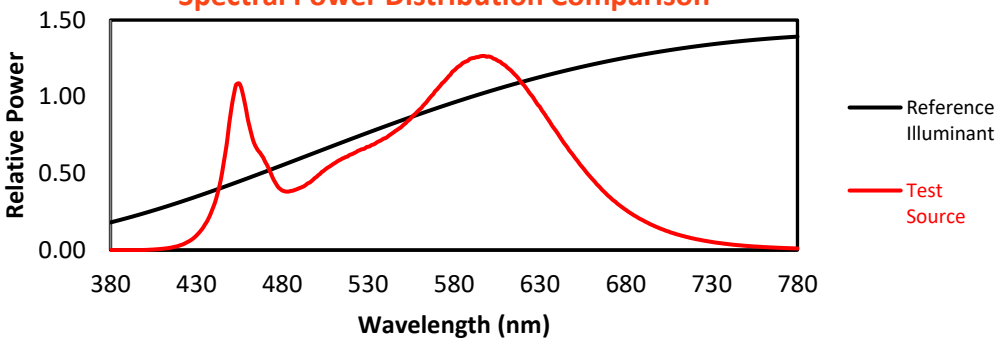
REPORT NUMBER: SP1-2407-168-2

TM-30-18

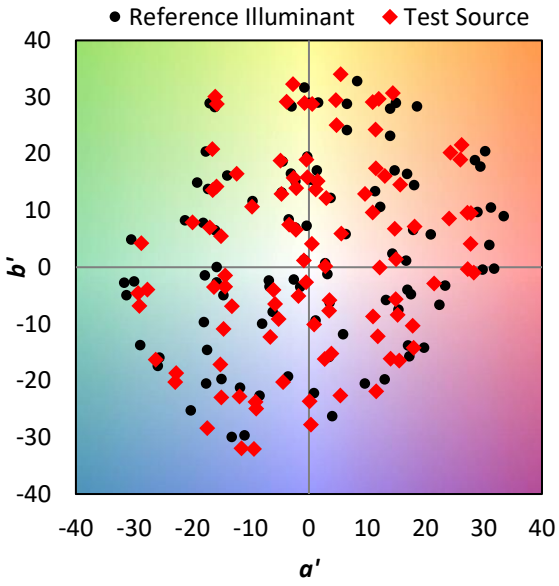
Summary

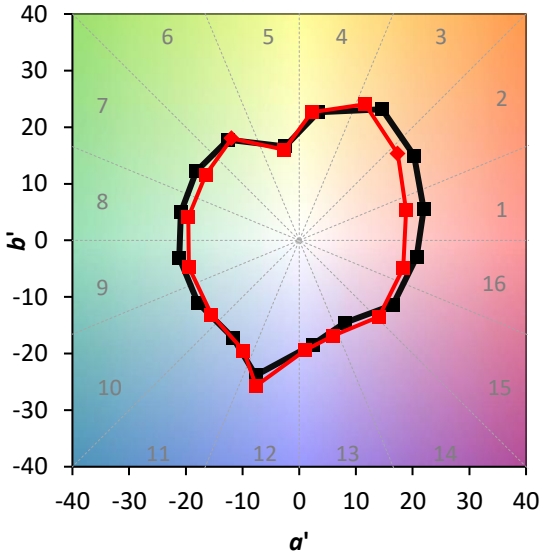
R_f = 82.6
R_g = 93
CIE R_a = 81.3
R_9 = -0.6

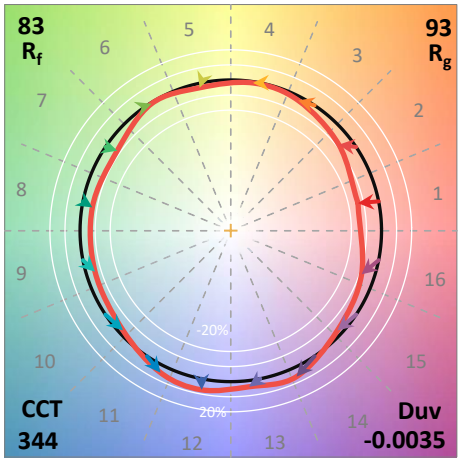
Spectral Power Distribution Comparison

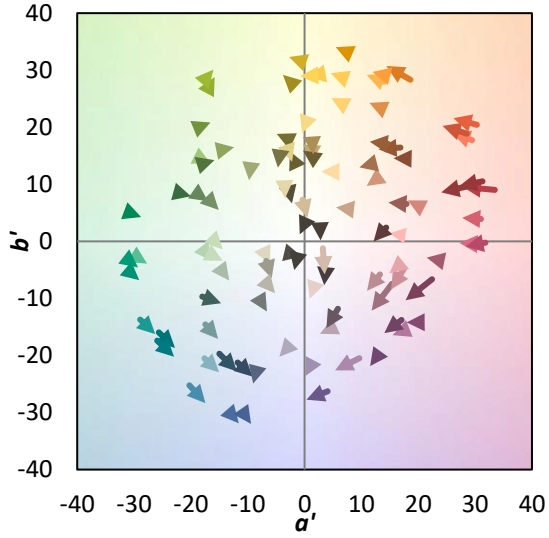


Color Vector Graphics







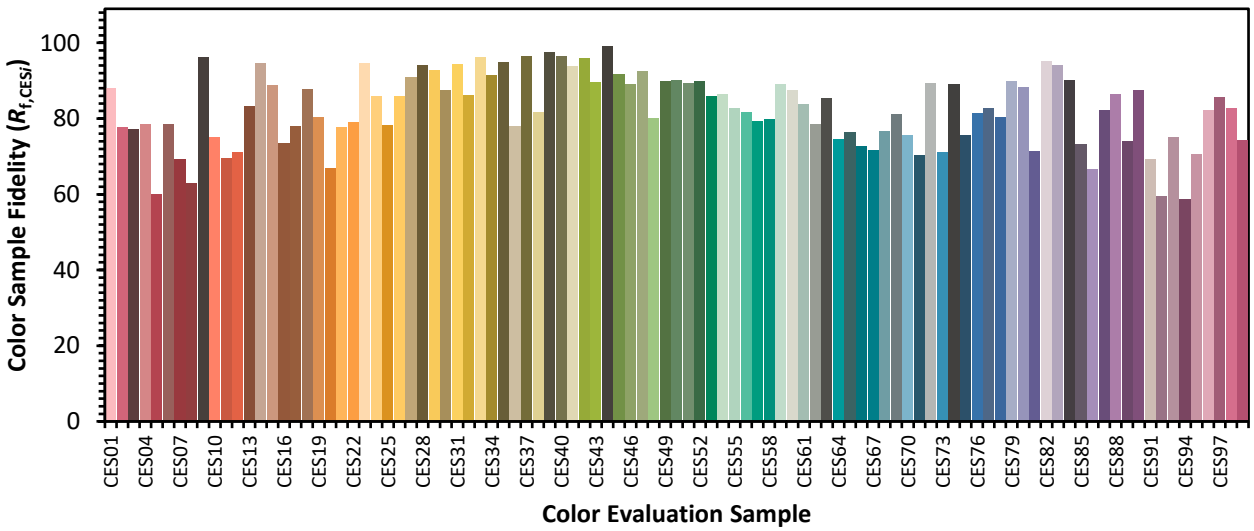


REPORT NUMBER: SP1-2407-168-2

TM-30-18

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

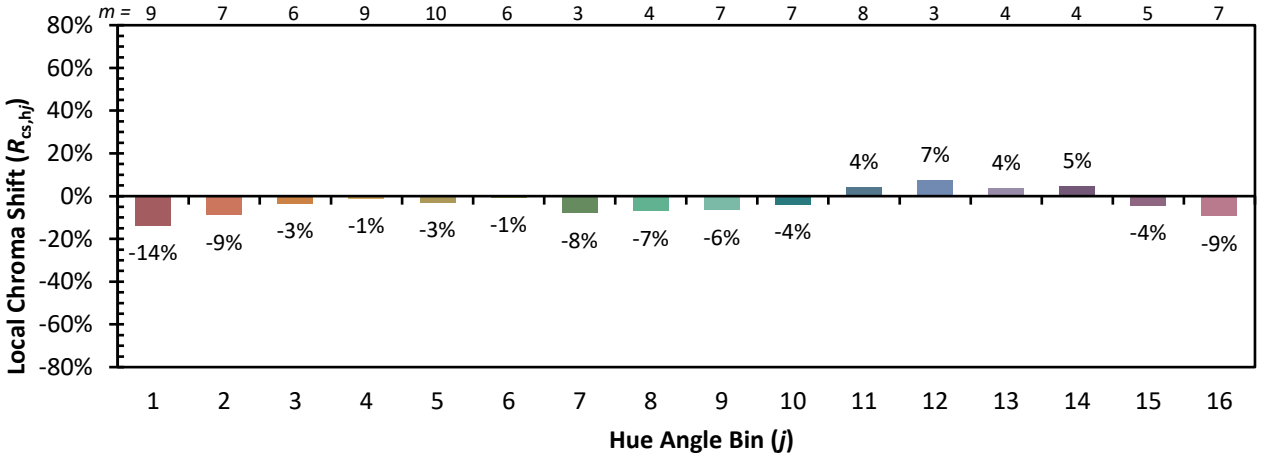
CES01 = 86	CES26 = 86	CES51 = 89	CES76 = 81
CES02 = 62	CES27 = 91	CES52 = 90	CES77 = 83
CES03 = 31	CES28 = 94	CES53 = 86	CES78 = 80
CES04 = 70	CES29 = 93	CES54 = 86	CES79 = 90
CES05 = 49	CES30 = 87	CES55 = 83	CES80 = 88
CES06 = 51	CES31 = 94	CES56 = 82	CES81 = 71
CES07 = 41	CES32 = 86	CES57 = 79	CES82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

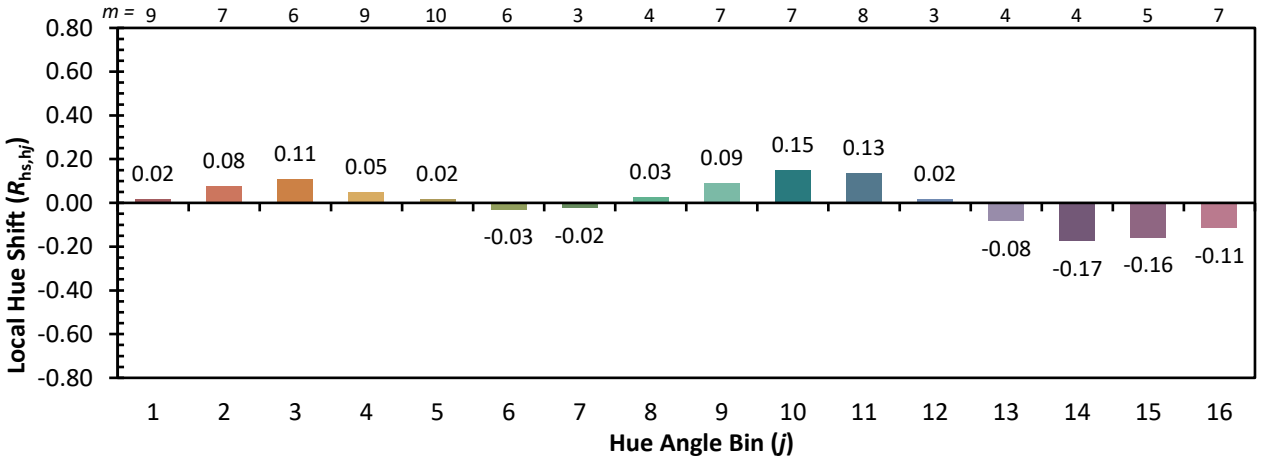


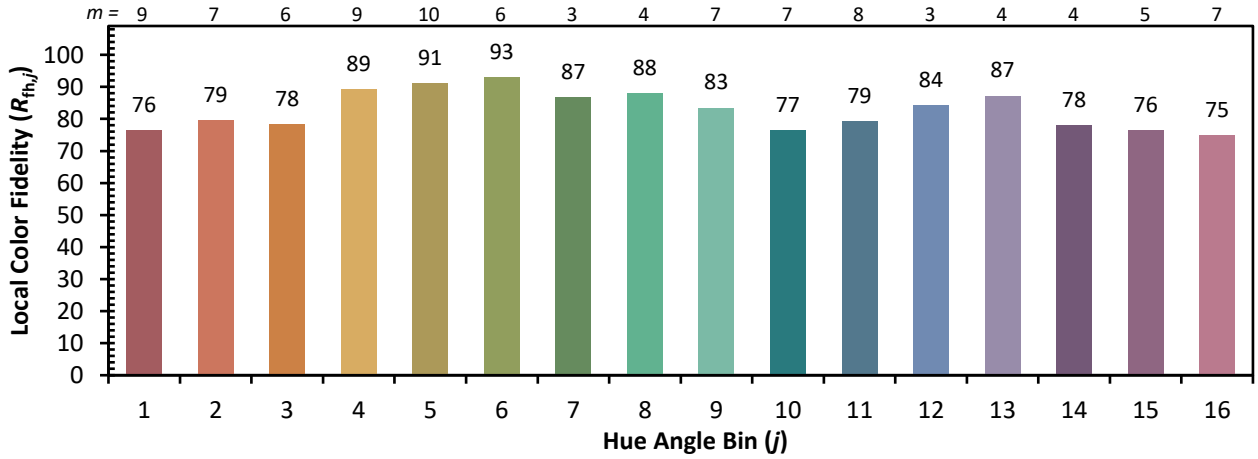
REPORT NUMBER: SP1-2407-168-2

TM-30-18

Color Rendition by Hue-Angle Bin







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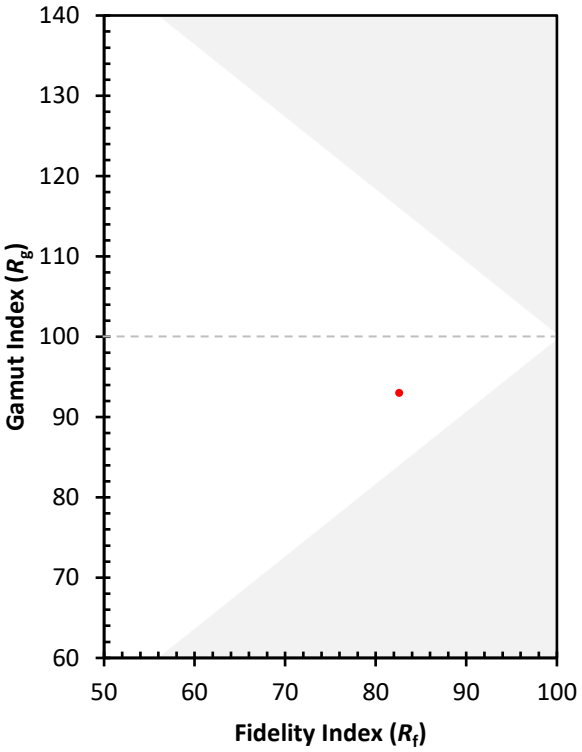
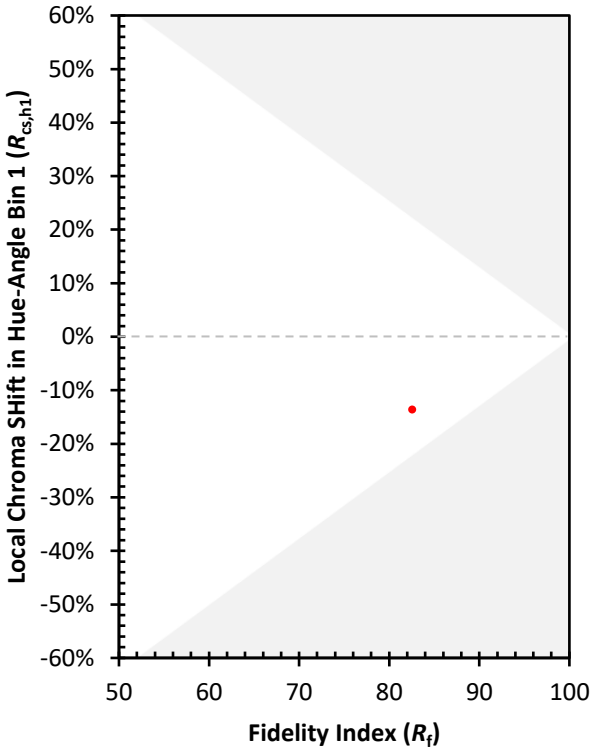
Measure Comparisons





(END OF REPORT)