

Signify Classified - Internal  
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: P979146

Luminaire Tested: **WPMLED26S-90W-5000K**

Issue Date: 03/31/2025



**Test Information**

Test Method: LM-79-08  
Report Number: P979146  
Test Lab: Cooper Lighting Solutions  
Issue Date: 03/31/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: WPMLD26S-90W-5000K  
Description: LUMARK WALL PACK LED MEDIUM 80CRI CCT AND LUMEN SELECTIVE FIXTURE  
OPERATING @90W-5000K  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

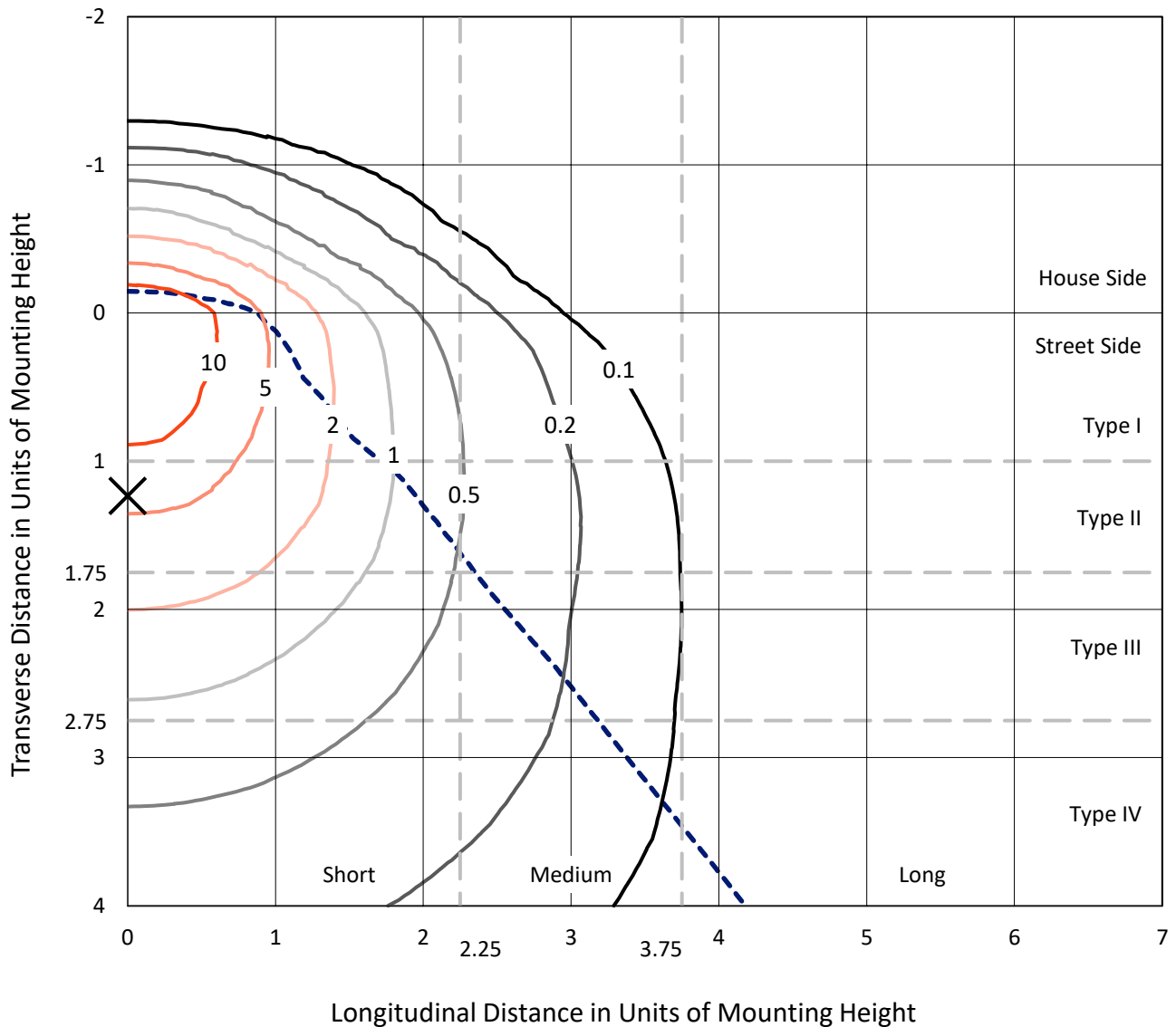
Lumens per Lamp: N/A  
Luminaire Lumens: 14205.1 lumens  
Efficiency: N/A  
Efficacy: 155.1 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.86' x L: 0.17' x H: 0.58')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U4 - G5

Input Watts (W): 91.6  
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

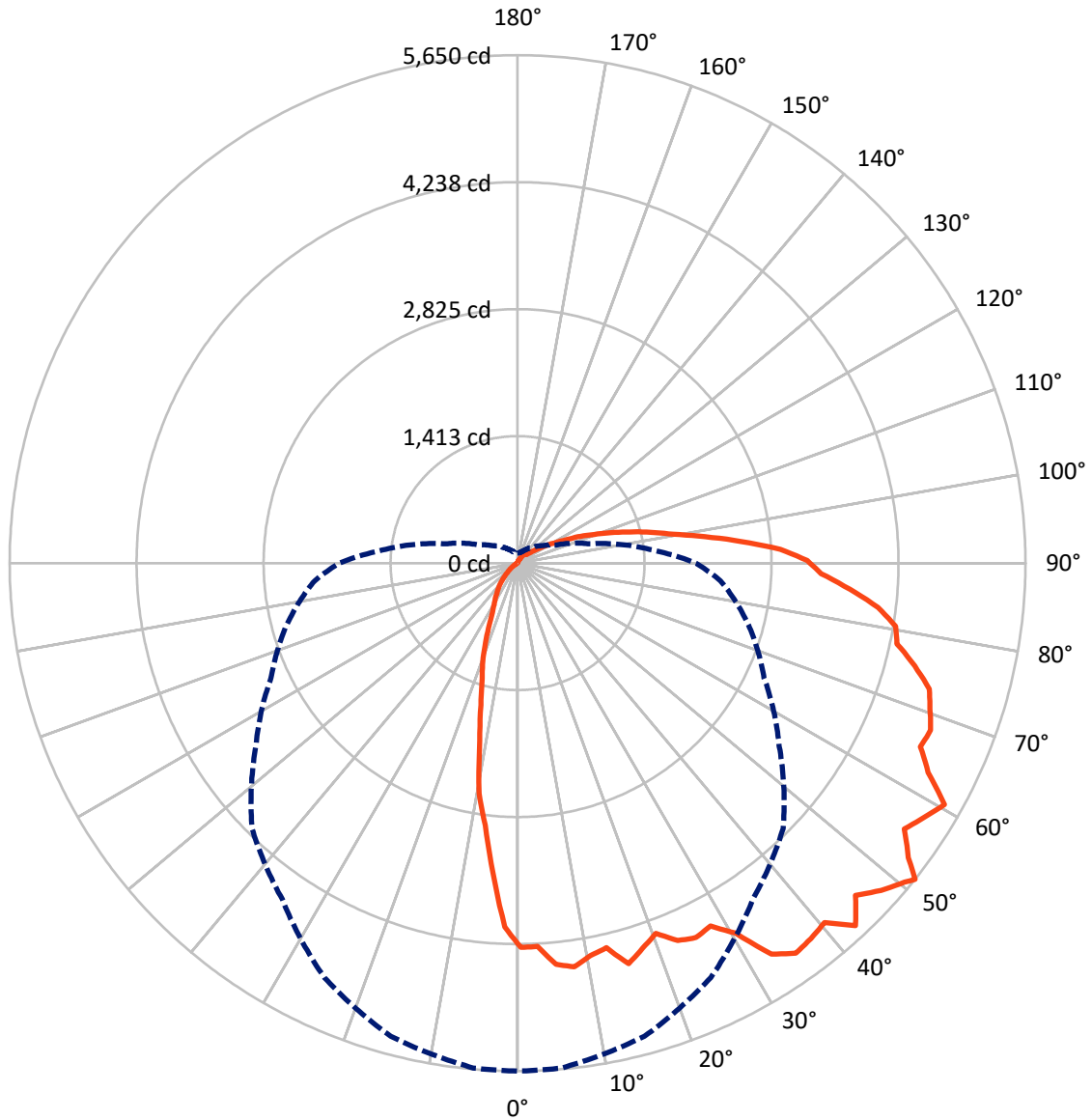
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 19.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 51-Deg Vertical

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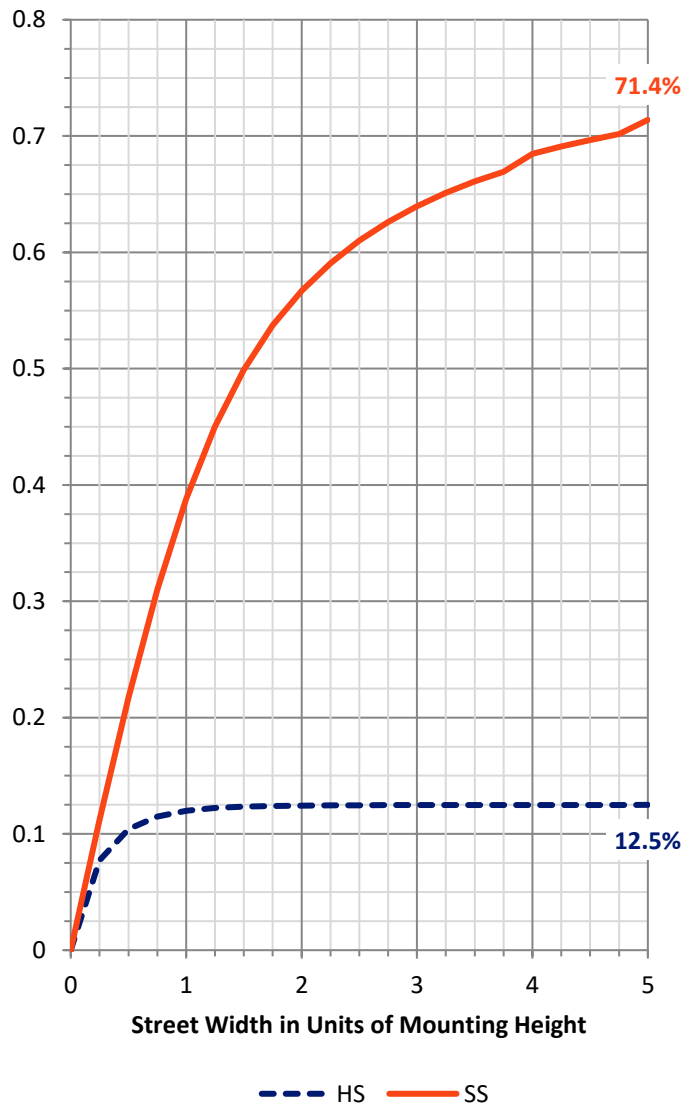
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1794.4	18.5	1812.9
	% Fixture	12.6	0.1	12.8
<b>Street Side</b>	Lumens	11011.6	1380.6	12392.2
	% Fixture	77.5	9.7	87.2
<b>Total</b>	Lumens	12805.9	1399.2	14205.1
	% Fixture	90.2	9.8	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	382.7	2.7
10°-20°	977.4	6.9
20°-30°	1359.8	9.6
30°-40°	1671.2	11.8
40°-50°	1865.4	13.1
50°-60°	1911.6	13.5
60°-70°	1823.4	12.8
70°-80°	1598.6	11.3
80°-90°	1215.8	8.6
90°-100°	738.1	5.2
100°-110°	361.2	2.5
110°-120°	165.2	1.2
120°-130°	72.3	0.5
130°-140°	37.0	0.3
140°-150°	18.3	0.1
150°-160°	5.7	0.0
160°-170°	1.2	0.0
170°-180°	0.2	0.0
0°-90°	12805.9	90.2
0°-180°	14205.1	100.0

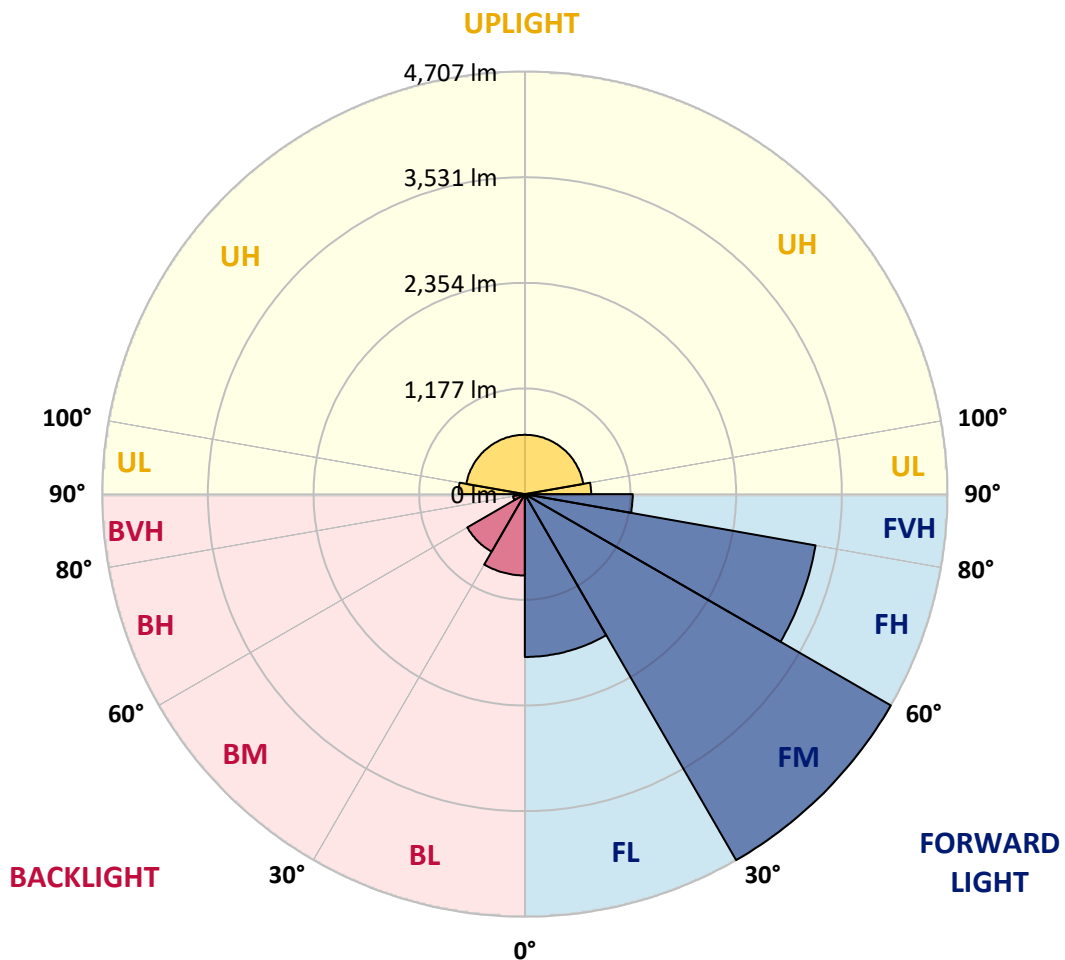


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1813.9	12.8			
FM (30°-60°)	4707.5	33.1			
FH (60°-80°)	3288.8	23.2			G2/5000
FVH (80°-90°)	1201.4	8.5			G5
BL (0°-30°)	906.0	6.4	B2/1000		
BM (30°-60°)	740.7	5.2	B1/1000		
BH (60°-80°)	133.3	0.9	B1/500		G1/500
BVH (80°-90°)	14.4	0.1			G1/100
UL (90°-100°)	738.1	5.2		U4/1000	
UH (100°-180°)	661.1	4.7		U4/1000	

**BUG Rating: B2-U4-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4274.0	4274.0	4274.0	4274.0	4274.0	4274.0	4274.0	4274.0	4274.0	4274.0	4274.0
2.5°	4270.1	4268.2	4265.3	4270.1	4276.9	4299.3	4337.1	4342.0	4298.3	4271.1	4269.2
5°	4484.6	4484.6	4473.9	4472.0	4419.6	4350.7	4281.8	4255.6	4324.5	4265.3	4260.4
7.5°	4535.1	4536.1	4535.1	4549.6	4539.9	4480.7	4430.3	4281.8	4261.4	4268.2	4248.8
10°	4440.0	4440.0	4439.0	4472.0	4536.1	4506.9	4501.1	4402.1	4219.7	4263.3	4231.3
12.5°	4390.5	4366.2	4332.2	4289.5	4362.3	4454.5	4485.6	4424.4	4242.0	4233.3	4189.6
15°	4625.3	4610.8	4577.8	4477.8	4322.5	4285.7	4432.2	4428.3	4269.2	4172.1	4132.3
17.5°	4504.0	4517.6	4552.5	4608.8	4535.1	4302.2	4272.1	4350.7	4248.8	4092.5	4055.7
20°	4396.3	4391.4	4362.3	4404.1	4536.1	4466.2	4122.6	4253.6	4173.1	3998.4	3957.6
22.5°	4560.3	4551.6	4424.4	4356.5	4339.0	4462.3	4239.1	4100.3	4101.3	3898.4	3863.5
25°	4614.7	4611.7	4660.3	4606.9	4310.9	4270.1	4307.0	3931.4	4028.5	3784.9	3753.8
27.5°	4570.0	4560.3	4515.7	4549.6	4543.8	4165.3	4211.9	3866.4	3922.7	3671.3	3628.6
30°	4777.7	4761.2	4703.9	4530.2	4421.5	4185.7	4040.1	3917.9	3800.4	3571.4	3508.3
32.5°	5186.3	5172.7	5052.3	4671.9	4375.9	4309.9	3926.6	3947.9	3684.9	3476.3	3380.2
35°	5329.9	5316.3	5161.0	4990.2	4488.5	4148.8	3903.3	3840.2	3546.2	3361.8	3244.3
37.5°	5299.8	5287.2	5197.0	5043.6	4717.5	4145.9	4010.0	3664.6	3407.4	3244.3	3085.2
40°	5257.1	5240.6	5170.7	4999.0	4679.7	4236.2	3817.9	3552.0	3300.6	3104.6	2913.4
42.5°	5512.4	5523.0	5443.5	5002.9	4618.5	4303.1	3754.8	3481.1	3215.2	2938.6	2706.7
45°	5271.7	5271.7	5341.6	5155.2	4659.3	4172.1	3757.7	3456.9	3125.0	2752.3	2496.1
47.5°	5439.6	5436.7	5329.9	5027.1	4742.8	4134.3	3795.6	3289.0	2968.7	2552.4	2282.6
50°	5580.3	5539.5	5371.6	5082.4	4600.1	4160.5	3620.9	3095.8	2752.3	2351.5	2066.2
51°	5650.2	5637.6	5449.3	5086.3	4564.2	4177.0	3553.9	3026.0	2660.1	2266.1	1983.7
52.5°	5442.5	5458.0	5492.9	5151.3	4595.3	4111.9	3488.9	2973.6	2537.8	2157.4	1877.9
55°	5220.2	5205.7	5218.3	5142.6	4675.8	4014.9	3466.6	2886.2	2378.7	2003.1	1717.8
57.5°	5333.8	5316.3	5171.7	4934.9	4711.7	4053.7	3385.1	2730.9	2251.5	1854.6	1560.5
60°	5456.1	5456.1	5366.8	4879.6	4533.1	4097.4	3221.0	2529.1	2101.1	1708.1	1392.6
62.5°	5125.1	5109.6	5070.8	4958.2	4432.2	3993.5	3149.2	2452.4	1937.1	1555.7	1238.3
65°	4925.2	4915.5	4843.7	4646.7	4402.1	3819.8	3085.2	2404.9	1839.1	1401.4	1084.0
67.5°	4956.3	4960.2	4847.6	4547.7	4166.3	3722.8	2921.2	2241.8	1739.1	1260.7	927.8
70°	4867.0	4868.0	4759.3	4479.8	4072.2	3518.0	2754.2	2139.0	1561.5	1121.9	757.9
72.5°	4790.3	4787.4	4697.2	4396.3	4022.7	3410.3	2561.1	2071.0	1436.3	938.5	593.9
75°	4562.3	4554.5	4467.1	4229.4	3854.8	3286.1	2408.7	1835.2	1331.5	762.8	447.4
77.5°	4314.8	4326.4	4222.6	3988.7	3645.1	3093.9	2237.0	1620.7	1173.3	594.9	329.0
80°	4263.3	4262.4	4144.9	3838.3	3490.8	2925.0	2063.3	1444.1	1018.0	442.5	232.9
82.5°	4041.1	4036.3	3931.4	3695.6	3281.2	2725.1	1877.9	1280.1	805.5	318.3	163.0
85°	3707.3	3737.3	3638.4	3377.3	3024.0	2476.7	1696.4	1107.3	643.4	226.1	109.7
87.5°	3379.2	3378.3	3251.1	3024.0	2735.8	2248.6	1491.6	935.5	502.7	155.3	72.8
90°	3223.0	3218.1	3101.7	2809.6	2459.2	1929.3	1270.4	780.3	382.4	104.8	53.4
92.5°	2928.0	2910.5	2767.8	2488.3	2133.1	1644.0	1068.5	631.8	294.1	78.6	45.6
95°	2500.9	2507.7	2418.5	2192.3	1852.7	1403.3	887.0	512.4	231.9	65.0	45.6
97.5°	2104.0	2094.3	1989.5	1792.5	1559.6	1179.1	741.5	405.7	188.3	61.1	46.6
100°	1758.5	1753.7	1658.6	1490.7	1265.5	966.6	597.8	328.0	156.2	61.1	48.5
102.5°	1520.8	1508.1	1435.3	1284.0	1057.8	756.0	481.4	271.7	132.0	63.1	50.5
105°	1299.5	1295.6	1238.3	1105.4	889.0	635.7	395.0	227.1	115.5	65.0	51.4
107.5°	1091.8	1091.8	1040.4	919.1	742.4	542.5	336.8	192.2	104.8	65.0	51.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	910.3	906.4	852.1	749.2	600.7	441.6	281.4	164.0	98.0	64.1	50.5
112.5°	764.7	758.9	709.4	621.1	494.9	356.2	234.9	143.6	94.1	63.1	49.5
115°	610.4	599.8	564.8	494.0	394.0	294.1	198.0	125.2	89.3	61.1	48.5
117.5°	492.0	490.1	463.9	396.0	318.3	241.7	167.9	110.6	84.4	57.3	45.6
120°	412.5	409.5	381.4	326.1	264.0	201.9	144.6	100.9	78.6	52.4	40.8
122.5°	330.0	324.1	304.7	264.0	218.4	172.7	127.1	91.2	71.8	47.6	36.9
125°	265.9	263.0	244.6	213.5	182.5	150.4	113.5	83.5	65.0	41.7	32.0
127.5°	213.5	209.6	197.0	178.6	157.2	132.0	101.9	76.7	57.3	36.9	28.1
130°	171.8	171.8	164.0	155.3	139.7	118.4	93.2	70.8	50.5	33.0	25.2
132.5°	145.6	144.6	144.6	140.7	128.1	107.7	85.4	66.0	45.6	29.1	22.3
135°	133.0	132.0	135.9	133.0	118.4	97.0	76.7	60.2	39.8	25.2	19.4
137.5°	138.8	137.8	135.9	125.2	106.8	86.4	68.9	53.4	34.0	21.4	16.5
140°	137.8	135.9	128.1	112.6	93.2	75.7	61.1	45.6	28.1	18.4	13.6
142.5°	121.3	120.3	110.6	96.1	79.6	65.0	53.4	38.8	23.3	14.6	11.6
145°	100.0	98.0	90.3	79.6	66.0	55.3	46.6	31.1	18.4	11.6	8.7
147.5°	75.7	75.7	70.8	64.1	55.3	47.6	38.8	24.3	14.6	9.7	7.8
150°	61.1	61.1	57.3	52.4	46.6	40.8	30.1	19.4	10.7	7.8	6.8
152.5°	49.5	49.5	46.6	42.7	38.8	31.1	22.3	13.6	8.7	6.8	5.8
155°	39.8	38.8	36.9	34.0	31.1	24.3	16.5	9.7	6.8	5.8	4.9
157.5°	30.1	31.1	29.1	26.2	22.3	16.5	10.7	7.8	5.8	4.9	3.9
160°	23.3	23.3	21.4	19.4	15.5	10.7	7.8	5.8	4.9	3.9	3.9
162.5°	16.5	16.5	15.5	12.6	9.7	7.8	6.8	4.9	4.9	3.9	3.9
165°	10.7	10.7	9.7	7.8	6.8	5.8	4.9	4.9	3.9	3.9	3.9
167.5°	6.8	5.8	5.8	5.8	4.9	4.9	4.9	4.9	4.9	3.9	3.9
170°	2.9	2.9	2.9	3.9	3.9	3.9	4.9	4.9	3.9	3.9	2.9
172.5°	0.0	1.0	1.9	2.9	3.9	3.9	4.9	4.9	3.9	3.9	2.9
175°	0.0	1.0	1.9	2.9	3.9	3.9	4.9	4.9	3.9	3.9	2.9
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°	4274.0	4274.0	4274.0	4274.0	4274.0	4274.0	4274.0	4274.0	4274.0	4274.0
2.5°	4284.7	4305.1	4289.5	4227.4	4177.0	4102.2	4079.9	4046.9	4053.7	4048.9
5°	4289.5	4246.8	4101.3	3973.2	3839.2	3654.8	3572.4	3520.0	3457.8	3460.8
7.5°	4284.7	4116.8	3898.4	3590.8	3363.7	3196.8	3051.2	2963.9	2931.8	2937.7
10°	4250.7	3976.1	3599.5	3246.3	2990.1	2832.8	2731.9	2633.9	2586.3	2597.0
12.5°	4176.0	3803.3	3306.4	2940.6	2734.8	2510.6	2274.8	2094.3	2037.0	2015.7
15°	4068.3	3582.1	3051.2	2721.2	2401.0	2020.6	1823.5	1699.3	1651.8	1632.4
17.5°	3929.5	3363.7	2824.1	2441.7	1979.8	1689.6	1512.0	1404.3	1354.8	1341.2
20°	3796.5	3122.1	2612.5	2096.2	1662.4	1417.9	1263.6	1190.8	1160.7	1157.8
22.5°	3649.0	2908.5	2380.6	1769.2	1417.9	1210.2	1091.8	1002.5	961.8	948.2
25°	3499.6	2716.4	2116.6	1520.8	1216.0	1048.1	914.2	810.4	760.9	755.0
27.5°	3331.7	2520.4	1841.0	1308.2	1055.9	871.5	732.7	661.9	626.0	618.2
30°	3159.9	2336.0	1586.7	1142.3	903.5	720.1	616.3	559.0	533.8	528.9
32.5°	2998.8	2150.6	1386.8	994.7	762.8	611.4	528.9	490.1	466.8	466.8
35°	2823.1	1929.3	1212.1	863.7	640.5	522.1	464.9	429.9	407.6	404.7
37.5°	2634.9	1724.6	1055.9	732.7	549.3	458.1	407.6	375.6	362.0	357.1
40°	2439.8	1517.8	908.4	627.9	477.5	403.7	359.1	325.1	307.6	308.6
42.5°	2226.3	1330.5	788.0	535.7	419.2	354.2	308.6	271.7	255.2	255.2
45°	2012.8	1150.0	688.1	459.0	363.9	303.8	256.2	220.3	203.8	202.8
47.5°	1812.9	1001.5	587.1	400.8	318.3	256.2	206.7	174.7	160.1	159.2
50°	1615.9	869.6	503.7	353.3	271.7	210.6	165.0	137.8	125.2	125.2
51°	1547.0	824.9	474.6	336.8	255.2	192.2	149.5	123.3	113.5	112.6
52.5°	1453.8	749.2	432.8	313.5	230.0	169.8	129.1	104.8	96.1	94.1
55°	1291.7	642.5	379.5	271.7	190.2	135.9	99.0	80.6	68.9	67.9
57.5°	1142.3	554.1	339.7	234.9	157.2	103.8	71.8	55.3	46.6	45.6
60°	987.0	474.6	302.8	199.9	126.2	77.6	49.5	34.9	29.1	28.1
62.5°	839.5	403.7	267.9	167.9	98.0	55.3	28.1	16.5	15.5	15.5
65°	712.3	349.4	233.9	139.7	72.8	34.0	8.7	3.9	2.9	1.0
67.5°	583.3	300.9	200.9	112.6	50.5	14.6	0.0	0.0	0.0	0.0
70°	465.8	258.1	169.8	89.3	32.0	2.9	0.0	0.0	0.0	0.0
72.5°	363.0	216.4	142.7	67.0	17.5	0.0	0.0	0.0	0.0	0.0
75°	278.5	180.5	116.5	49.5	4.9	0.0	0.0	0.0	0.0	0.0
77.5°	213.5	147.5	94.1	34.0	1.9	0.0	0.0	0.0	0.0	0.0
80°	159.2	118.4	72.8	23.3	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	118.4	94.1	55.3	16.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	87.3	74.7	43.7	11.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	63.1	60.2	34.9	8.7	0.0	0.0	0.0	0.0	0.0	0.0
90°	51.4	49.5	28.1	5.8	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	44.6	41.7	23.3	4.9	0.0	0.0	0.0	0.0	0.0	0.0
95°	41.7	35.9	19.4	3.9	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	40.8	32.0	16.5	2.9	0.0	0.0	0.0	0.0	0.0	0.0
100°	40.8	29.1	13.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	40.8	26.2	11.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0
105°	41.7	24.3	10.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	40.8	22.3	8.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P979146  
 CATALOG NUMBER: WPMLD26S-90W-5000K

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	39.8	20.4	6.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	38.8	19.4	5.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	36.9	17.5	4.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	34.9	15.5	4.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	31.1	13.6	3.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	27.2	11.6	3.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	24.3	10.7	3.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	21.4	8.7	3.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	19.4	7.8	2.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	16.5	7.8	2.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	14.6	6.8	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	12.6	5.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	10.7	4.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	8.7	3.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	7.8	3.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	6.8	3.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	5.8	2.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	4.9	2.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	3.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	3.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	2.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	2.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	2.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	2.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	2.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	2.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	2.9	1.9	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: SP1-2407-168-4

Test Date: 08/08/2024

Luminaire Tested: LSDL-92S-100W 5000k

Data in this report applies to families of products including LSDL-92S-100W 5000k.

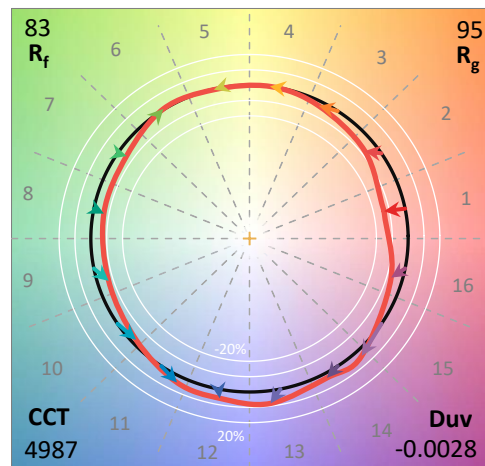
**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2407-168-4  
 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 5000k**  
 Description: Lumark Wallpack 100W

**Spectral Parameters**

CCT (K): 4987  
 CIE u': 0.2135  
 CIE v': 0.4819  
 Duv: -0.0028  
 CIE x: 0.3449  
 CIE y: 0.3461  
 CIE z: 0.3090  
 Peak Wavelength (nm): 453  
 Dominant Wavelength (nm): 576  
 Purity: 7.317109  
 Rf: 82.9  
 Rg: 94.6

CRI (Ra):	83.4		
R1:	82.5	R9:	6.6
R2:	92.4	R10:	80.3
R3:	94.5	R11:	78.9
R4:	79.9	R12:	59.3
R5:	82.3	R13:	85.9
R6:	86.3	R14:	97.8
R7:	84.5	R15:	77.3
R8:	64.7		



**Test Conditions**

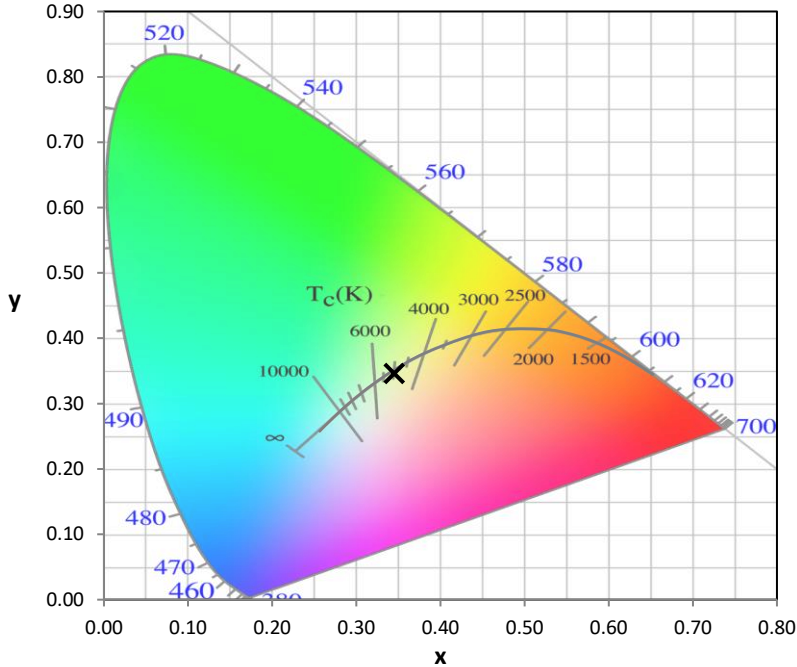
Stabilization Time: 20M  
 Operation Time: 1H 20M  
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2407-168-4

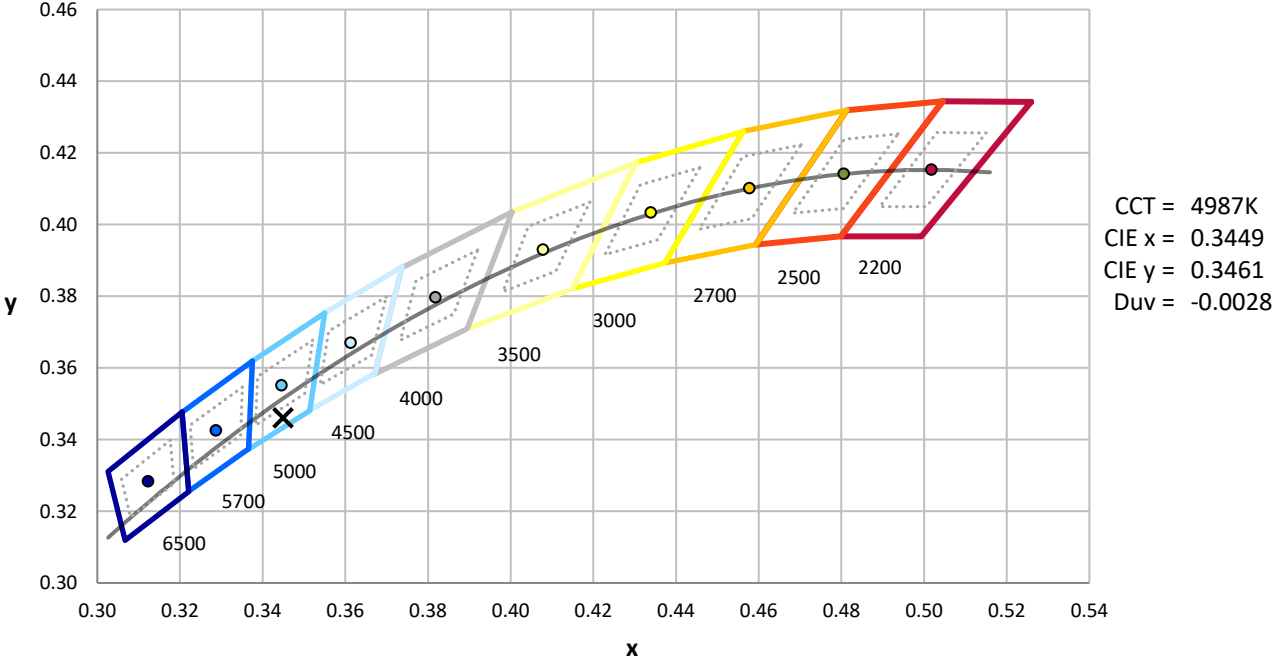
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-168-4

**CIE 1931 Chromaticity Diagram**



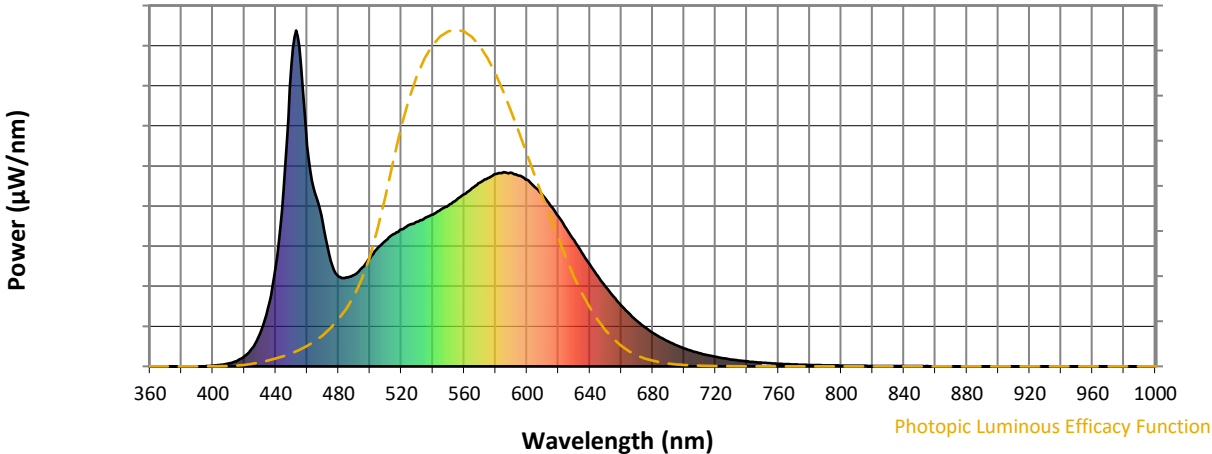
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-168-4

**Photopic Flux vs. Wavelength**

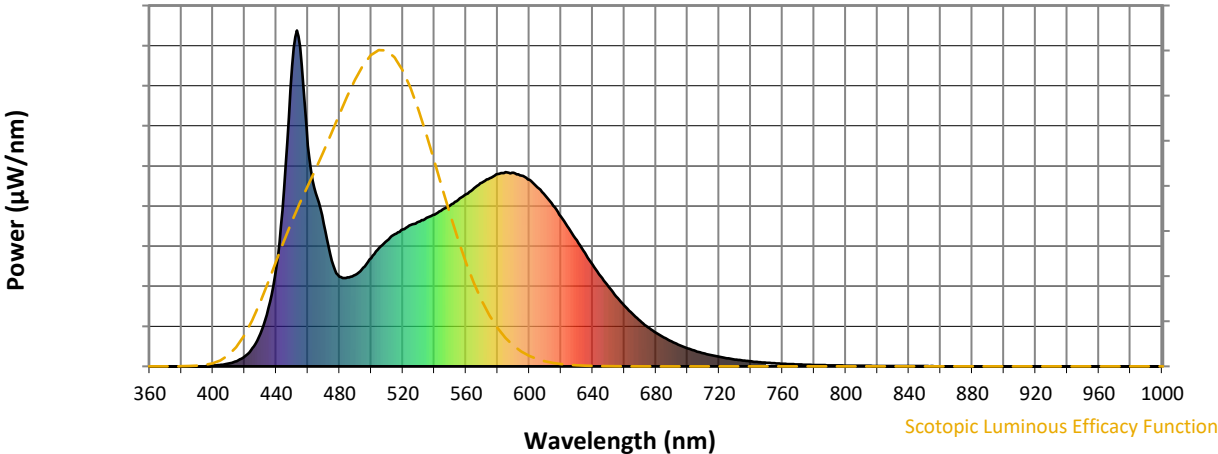


**Photopic Lumens: NR**

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	273	NR	620	446	NR	750	11	NR	880	0	NR
365	0	NR	495	294	NR	625	410	NR	755	9	NR	885	0	NR
370	0	NR	500	322	NR	630	376	NR	760	8	NR	890	0	NR
375	0	NR	505	352	NR	635	338	NR	765	7	NR	895	0	NR
380	0	NR	510	374	NR	640	303	NR	770	6	NR	900	0	NR
385	0	NR	515	393	NR	645	269	NR	775	5	NR	905	0	NR
390	0	NR	520	408	NR	650	237	NR	780	4	NR	910	0	NR
395	0	NR	525	421	NR	655	208	NR	785	4	NR	915	0	NR
400	2	NR	530	430	NR	660	181	NR	790	3	NR	920	0	NR
405	5	NR	535	442	NR	665	157	NR	795	3	NR	925	0	NR
410	9	NR	540	451	NR	670	135	NR	800	2	NR	930	0	NR
415	16	NR	545	467	NR	675	116	NR	805	2	NR	935	0	NR
420	29	NR	550	480	NR	680	100	NR	810	2	NR	940	0	NR
425	54	NR	555	495	NR	685	86	NR	815	2	NR	945	0	NR
430	98	NR	560	513	NR	690	74	NR	820	1	NR	950	0	NR
435	174	NR	565	530	NR	695	63	NR	825	1	NR	955	0	NR
440	296	NR	570	546	NR	700	54	NR	830	1	NR	960	0	NR
445	529	NR	575	561	NR	705	46	NR	835	1	NR	965	0	NR
450	894	NR	580	572	NR	710	39	NR	840	1	NR	970	0	NR
455	952	NR	585	578	NR	715	33	NR	845	1	NR	975	0	NR
460	658	NR	590	576	NR	720	28	NR	850	1	NR	980	0	NR
465	516	NR	595	568	NR	725	24	NR	855	1	NR	985	0	NR
470	424	NR	600	555	NR	730	21	NR	860	0	NR	990	0	NR
475	314	NR	605	534	NR	735	17	NR	865	0	NR	995	0	NR
480	267	NR	610	509	NR	740	15	NR	870	0	NR	1000	0	NR
485	265	NR	615	479	NR	745	13	NR	875	0	NR			

REPORT NUMBER: SP1-2407-168-4

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

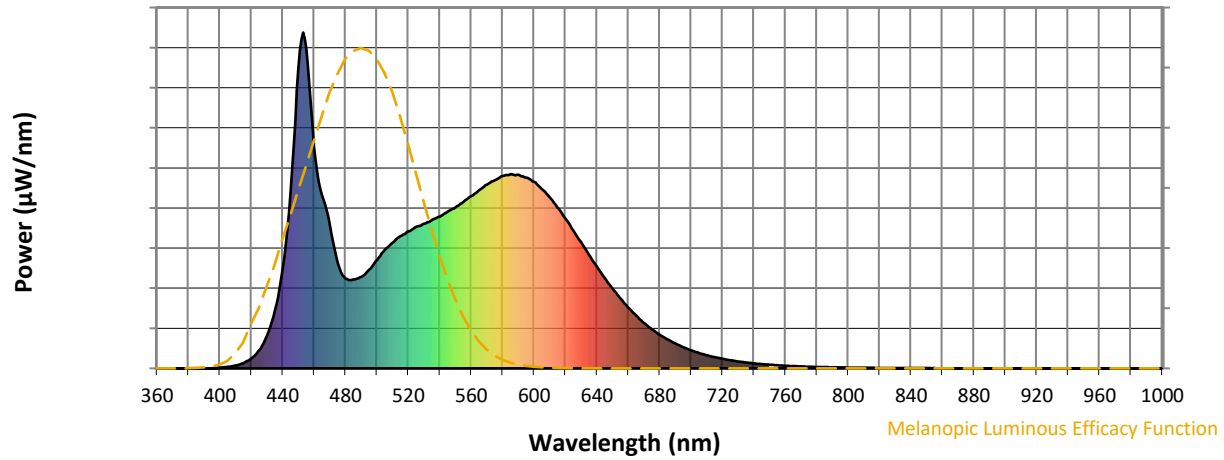
S/P: 2

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	273	NR	620	446	NR	750	11	NR	880	0	NR
365	0	NR	495	294	NR	625	410	NR	755	9	NR	885	0	NR
370	0	NR	500	322	NR	630	376	NR	760	8	NR	890	0	NR
375	0	NR	505	352	NR	635	338	NR	765	7	NR	895	0	NR
380	0	NR	510	374	NR	640	303	NR	770	6	NR	900	0	NR
385	0	NR	515	393	NR	645	269	NR	775	5	NR	905	0	NR
390	0	NR	520	408	NR	650	237	NR	780	4	NR	910	0	NR
395	0	NR	525	421	NR	655	208	NR	785	4	NR	915	0	NR
400	2	NR	530	430	NR	660	181	NR	790	3	NR	920	0	NR
405	5	NR	535	442	NR	665	157	NR	795	3	NR	925	0	NR
410	9	NR	540	451	NR	670	135	NR	800	2	NR	930	0	NR
415	16	NR	545	467	NR	675	116	NR	805	2	NR	935	0	NR
420	29	NR	550	480	NR	680	100	NR	810	2	NR	940	0	NR
425	54	NR	555	495	NR	685	86	NR	815	2	NR	945	0	NR
430	98	NR	560	513	NR	690	74	NR	820	1	NR	950	0	NR
435	174	NR	565	530	NR	695	63	NR	825	1	NR	955	0	NR
440	296	NR	570	546	NR	700	54	NR	830	1	NR	960	0	NR
445	529	NR	575	561	NR	705	46	NR	835	1	NR	965	0	NR
450	894	NR	580	572	NR	710	39	NR	840	1	NR	970	0	NR
455	952	NR	585	578	NR	715	33	NR	845	1	NR	975	0	NR
460	658	NR	590	576	NR	720	28	NR	850	1	NR	980	0	NR
465	516	NR	595	568	NR	725	24	NR	855	1	NR	985	0	NR
470	424	NR	600	555	NR	730	21	NR	860	0	NR	990	0	NR
475	314	NR	605	534	NR	735	17	NR	865	0	NR	995	0	NR
480	267	NR	610	509	NR	740	15	NR	870	0	NR	1000	0	NR
485	265	NR	615	479	NR	745	13	NR	875	0	NR			



REPORT NUMBER: SP1-2407-168-4

**Melanopic Flux vs. Wavelength**



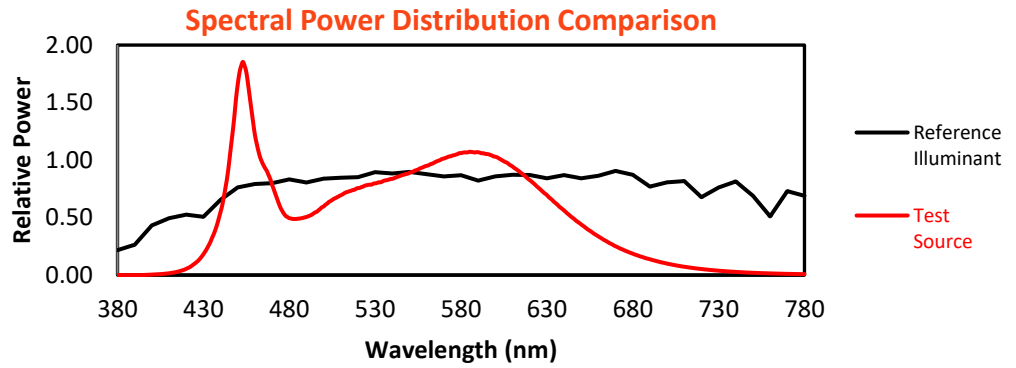
**Melanopic Lumens: NR**

**M/P: 4.35**

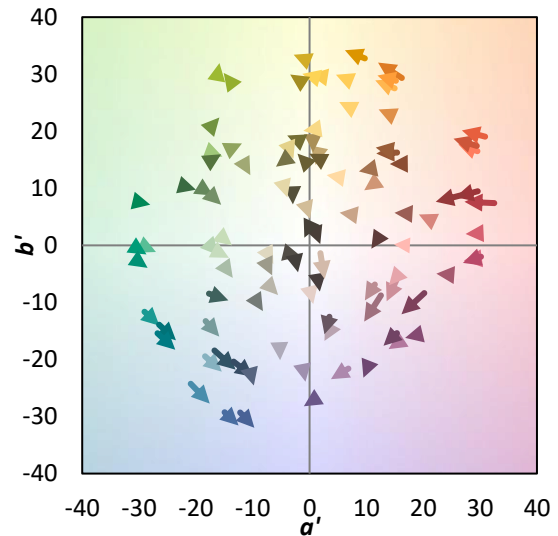
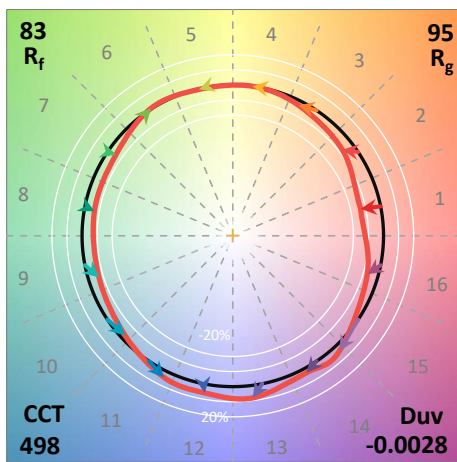
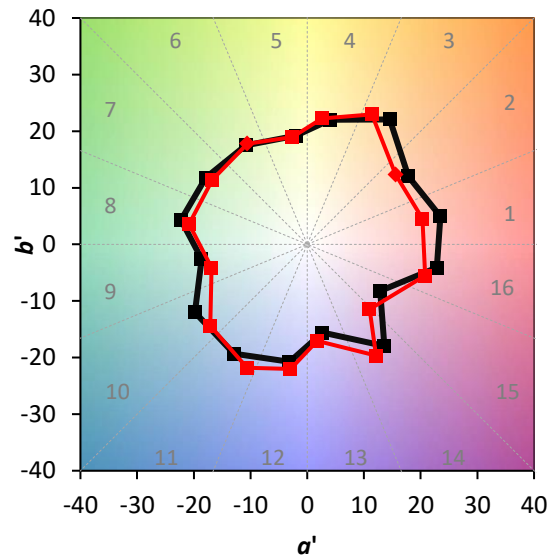
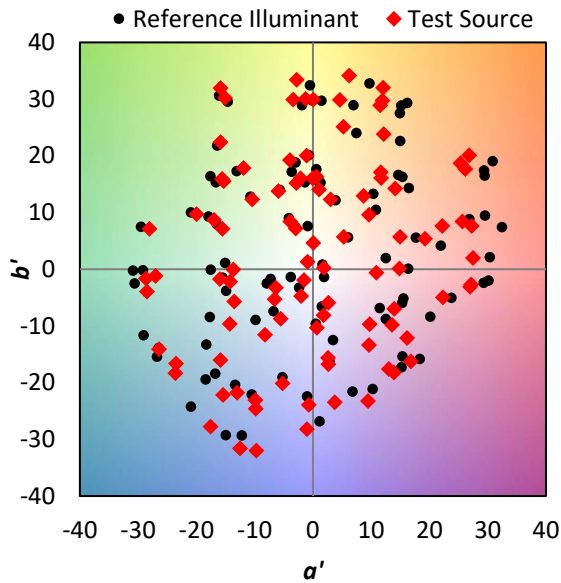
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	273	NR	620	446	NR	750	11	NR	880	0	NR
365	0	NR	495	294	NR	625	410	NR	755	9	NR	885	0	NR
370	0	NR	500	322	NR	630	376	NR	760	8	NR	890	0	NR
375	0	NR	505	352	NR	635	338	NR	765	7	NR	895	0	NR
380	0	NR	510	374	NR	640	303	NR	770	6	NR	900	0	NR
385	0	NR	515	393	NR	645	269	NR	775	5	NR	905	0	NR
390	0	NR	520	408	NR	650	237	NR	780	4	NR	910	0	NR
395	0	NR	525	421	NR	655	208	NR	785	4	NR	915	0	NR
400	2	NR	530	430	NR	660	181	NR	790	3	NR	920	0	NR
405	5	NR	535	442	NR	665	157	NR	795	3	NR	925	0	NR
410	9	NR	540	451	NR	670	135	NR	800	2	NR	930	0	NR
415	16	NR	545	467	NR	675	116	NR	805	2	NR	935	0	NR
420	29	NR	550	480	NR	680	100	NR	810	2	NR	940	0	NR
425	54	NR	555	495	NR	685	86	NR	815	2	NR	945	0	NR
430	98	NR	560	513	NR	690	74	NR	820	1	NR	950	0	NR
435	174	NR	565	530	NR	695	63	NR	825	1	NR	955	0	NR
440	296	NR	570	546	NR	700	54	NR	830	1	NR	960	0	NR
445	529	NR	575	561	NR	705	46	NR	835	1	NR	965	0	NR
450	894	NR	580	572	NR	710	39	NR	840	1	NR	970	0	NR
455	952	NR	585	578	NR	715	33	NR	845	1	NR	975	0	NR
460	658	NR	590	576	NR	720	28	NR	850	1	NR	980	0	NR
465	516	NR	595	568	NR	725	24	NR	855	1	NR	985	0	NR
470	424	NR	600	555	NR	730	21	NR	860	0	NR	990	0	NR
475	314	NR	605	534	NR	735	17	NR	865	0	NR	995	0	NR
480	267	NR	610	509	NR	740	15	NR	870	0	NR	1000	0	NR
485	265	NR	615	479	NR	745	13	NR	875	0	NR			

**Summary**

$R_f = 82.9$   
 $R_g = 94.6$   
 $CIE R_a = 83.4$   
 $R_9 = 6.6$

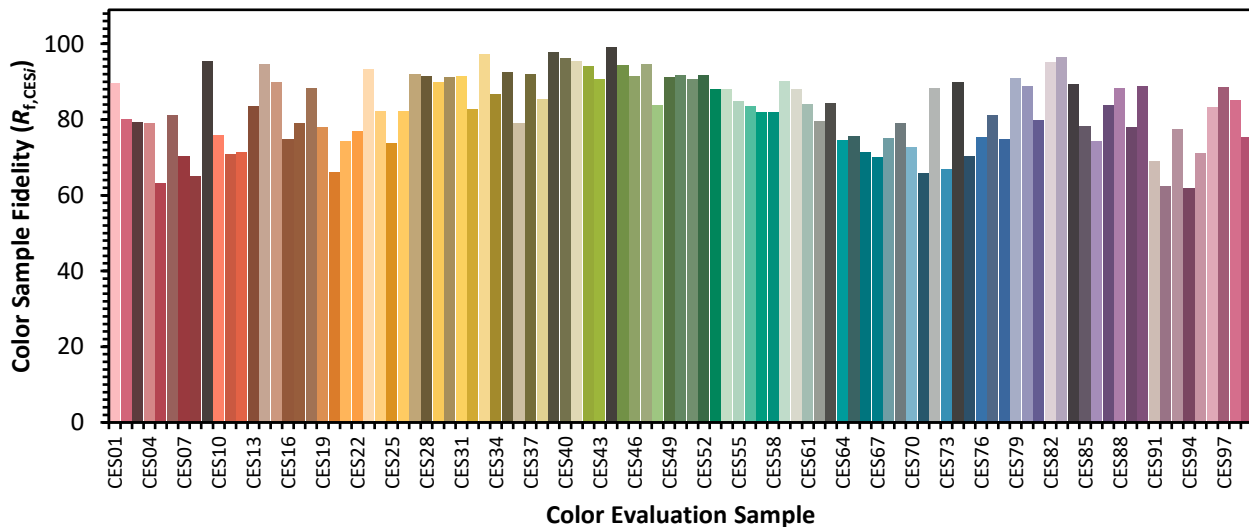


**Color Vector Graphics**

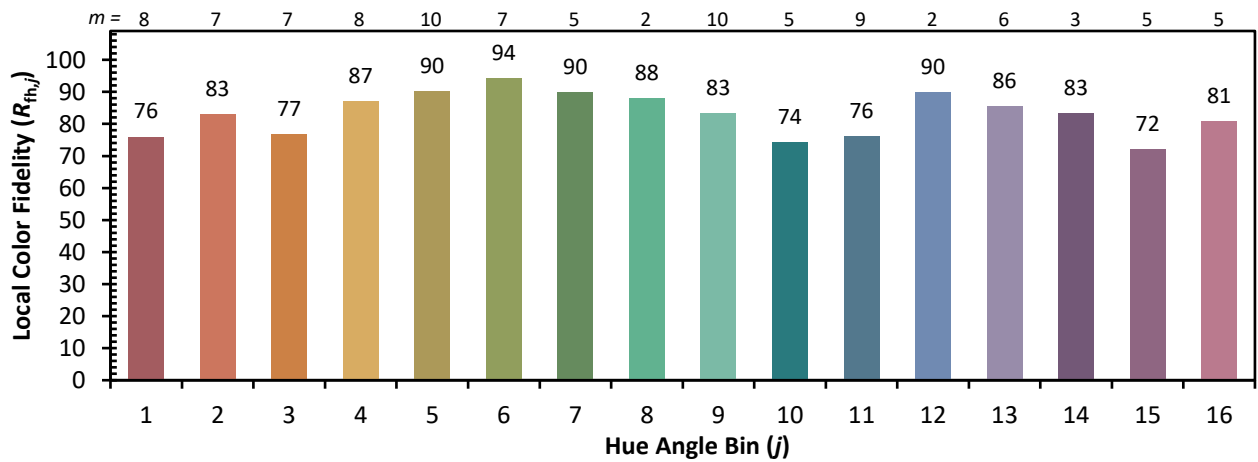
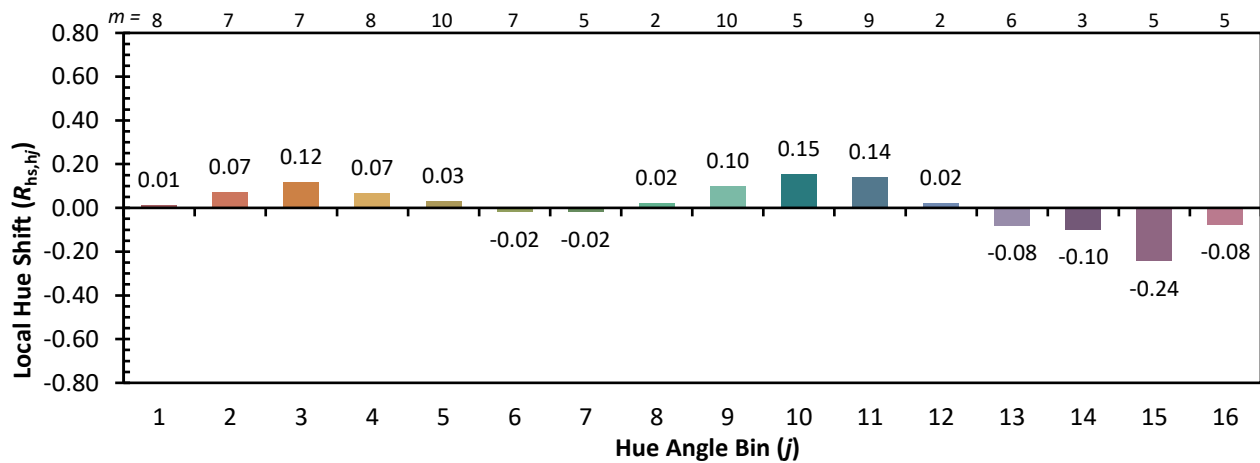
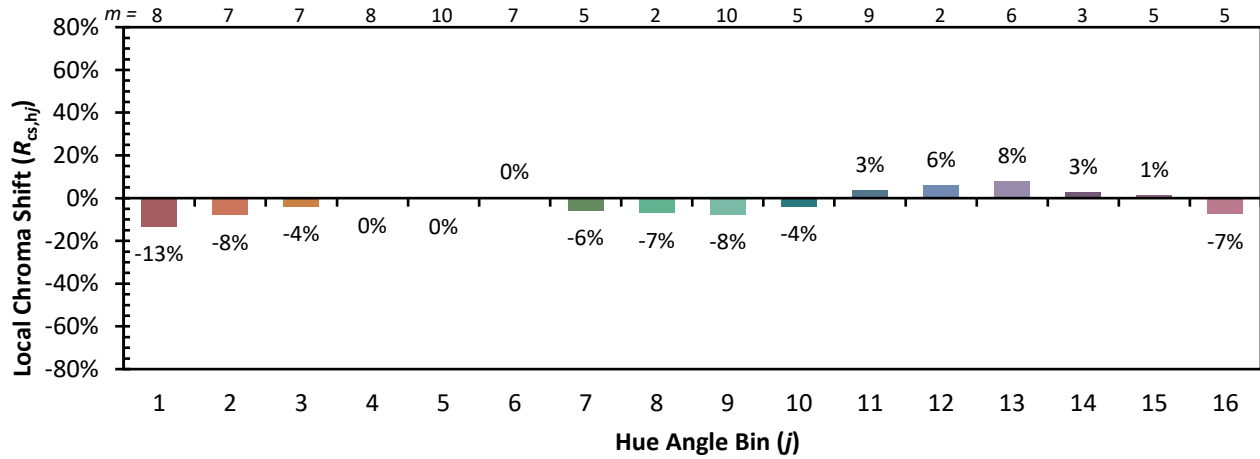


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

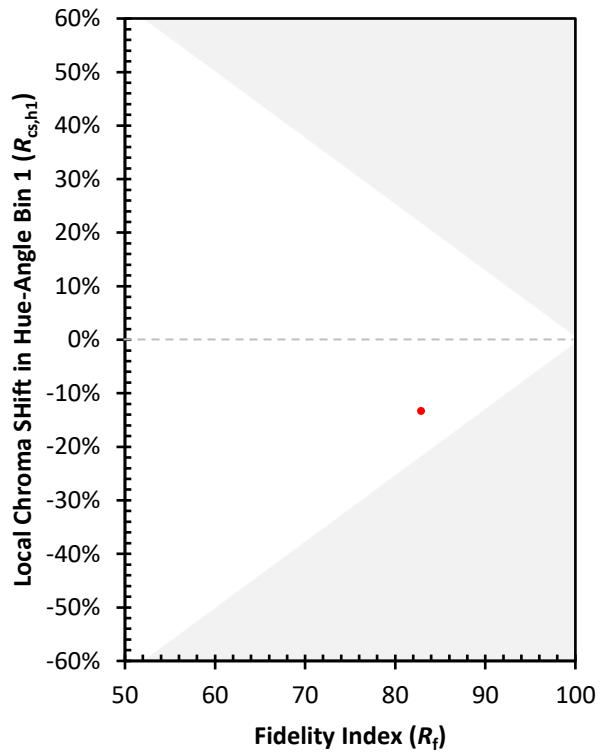
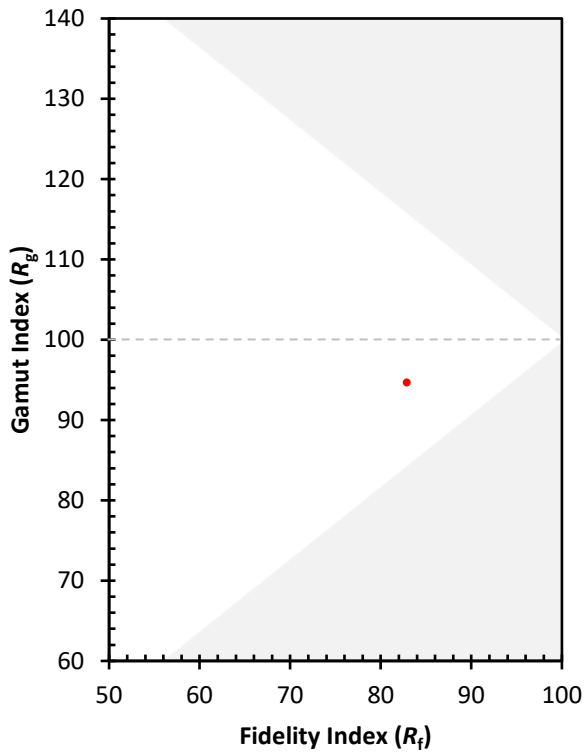
CES01 = 85	CES26 = 82	CES51 = 91	CES76 = 75
CES02 = 60	CES27 = 92	CES52 = 92	CES77 = 81
CES03 = 30	CES28 = 92	CES53 = 88	CES78 = 75
CES04 = 69	CES29 = 90	CES54 = 88	CES79 = 91
CES05 = 47	CES30 = 91	CES55 = 85	CES80 = 89
CES06 = 50	CES31 = 91	CES56 = 84	CES81 = 80
CES07 = 40	CES32 = 83	CES57 = 82	CES82 = 95
CES08 = 39	CES33 = 97	CES58 = 82	CES83 = 96
CES09 = 29	CES34 = 87	CES59 = 90	CES84 = 89
CES10 = 73	CES35 = 92	CES60 = 88	CES85 = 78
CES11 = 56	CES36 = 79	CES61 = 84	CES86 = 74
CES12 = 62	CES37 = 92	CES62 = 80	CES87 = 84
CES13 = 42	CES38 = 85	CES63 = 84	CES88 = 88
CES14 = 74	CES39 = 98	CES64 = 75	CES89 = 78
CES15 = 71	CES40 = 96	CES65 = 76	CES90 = 89
CES16 = 46	CES41 = 96	CES66 = 72	CES91 = 69
CES17 = 49	CES42 = 94	CES67 = 70	CES92 = 62
CES18 = 56	CES43 = 91	CES68 = 75	CES93 = 77
CES19 = 71	CES44 = 99	CES69 = 79	CES94 = 62
CES20 = 64	CES45 = 94	CES70 = 73	CES95 = 71
CES21 = 85	CES46 = 91	CES71 = 66	CES96 = 83
CES22 = 77	CES47 = 95	CES72 = 88	CES97 = 89
CES23 = 91	CES48 = 84	CES73 = 67	CES98 = 85
CES24 = 90	CES49 = 91	CES74 = 90	CES99 = 75
CES25 = 71	CES50 = 92	CES75 = 70	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)