

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: P979156

Luminaire Tested: **WPMLED26S-70W-5000K**

Issue Date: 03/31/2025



**Test Information**

Test Method: LM-79-08  
Report Number: P979156  
Test Lab: Cooper Lighting Solutions  
Issue Date: 03/31/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: WPMLD26S-70W-5000K  
Description: LUMARK WALL PACK LED MEDIUM 80CRI CCT AND LUMEN SELECTIVE FIXTURE  
OPERATING @70W-5000K  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

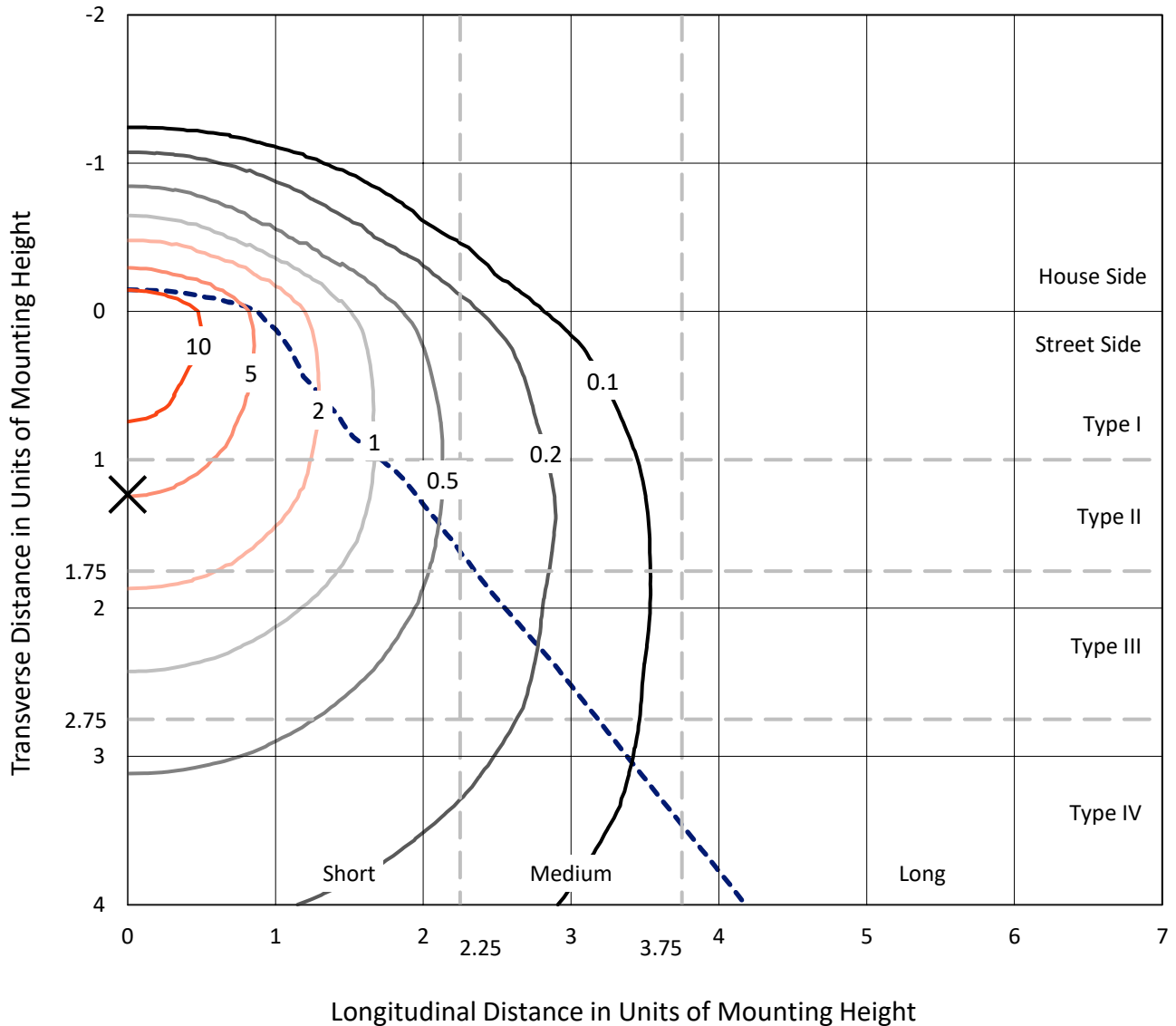
Lumens per Lamp: N/A  
Luminaire Lumens: 11664.1 lumens  
Efficiency: N/A  
Efficacy: 161.6 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.86' x L: 0.17' x H: 0.58')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U4 - G5

Input Watts (W): 72.2  
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

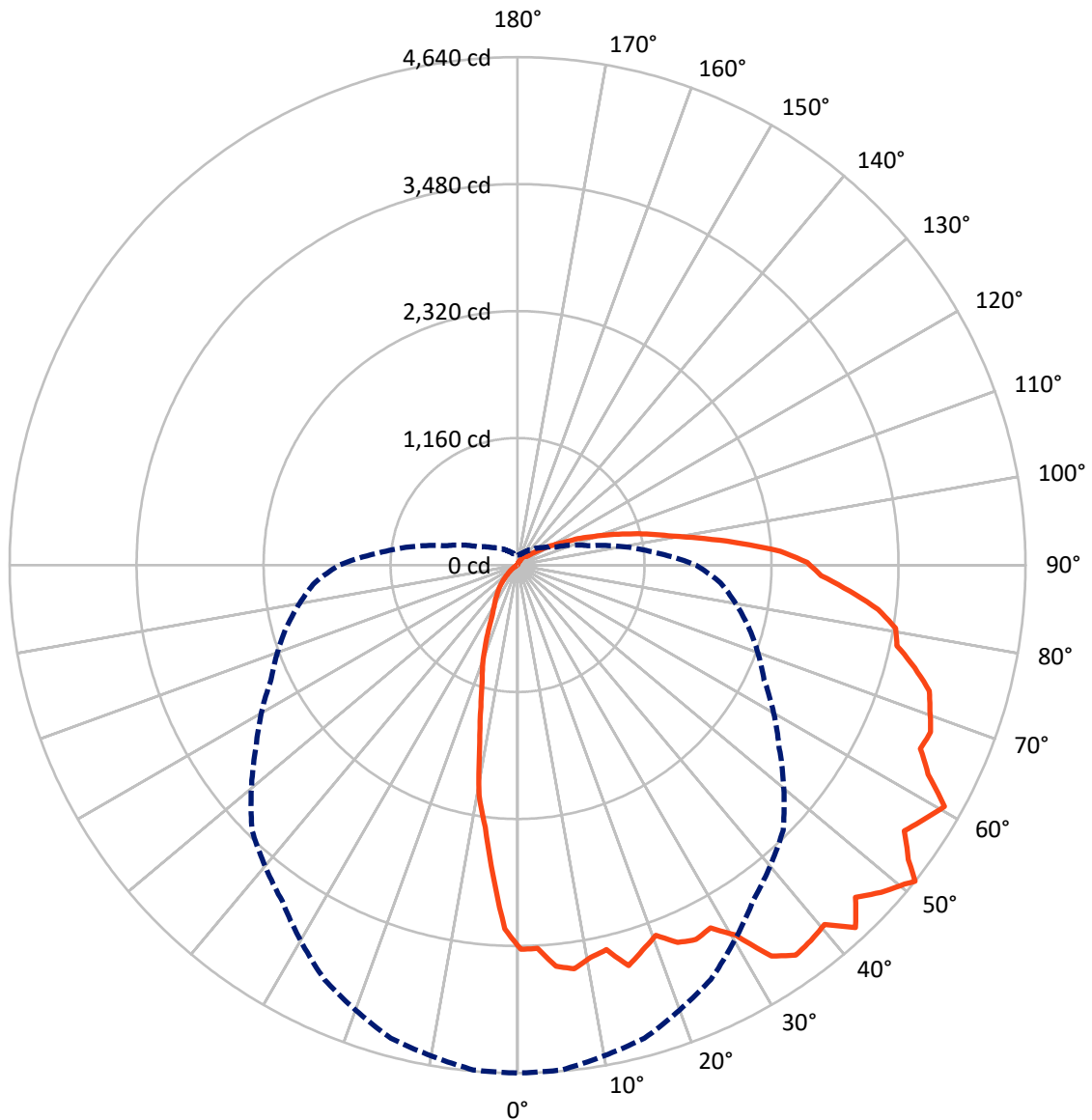
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 16.1 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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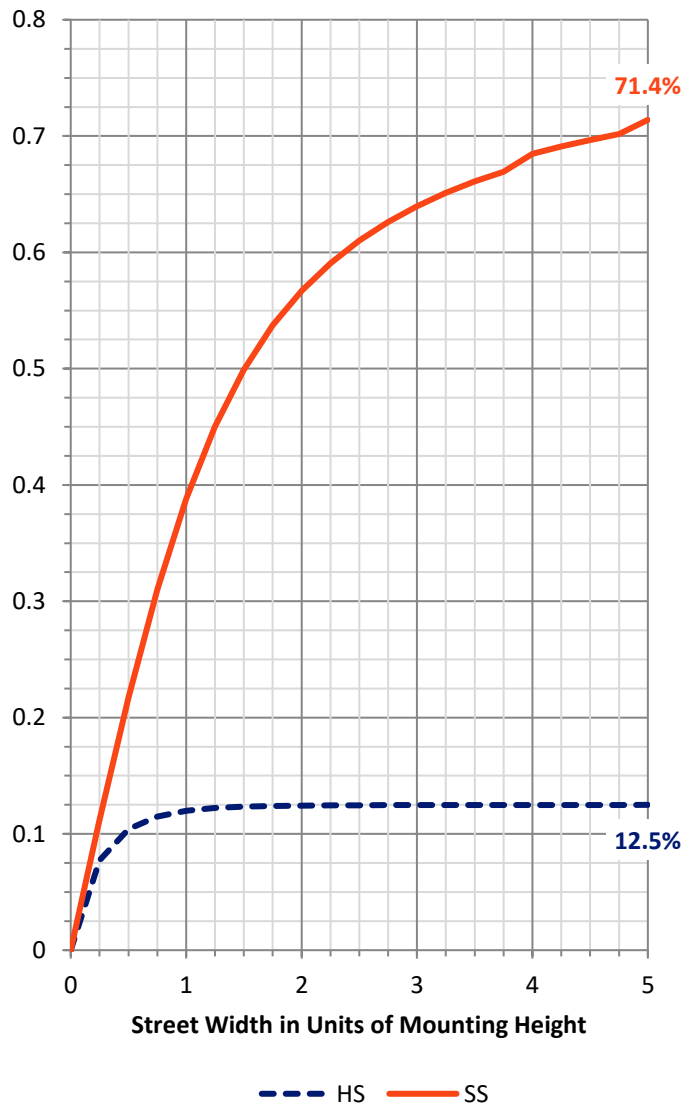
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1473.4	15.2	1488.6
	% Fixture	12.6	0.1	12.8
<b>Street Side</b>	Lumens	9041.8	1133.7	10175.5
	% Fixture	77.5	9.7	87.2
<b>Total</b>	Lumens	10515.2	1148.9	11664.1
	% Fixture	90.2	9.8	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	314.2	2.7
10°-20°	802.6	6.9
20°-30°	1116.6	9.6
30°-40°	1372.3	11.8
40°-50°	1531.7	13.1
50°-60°	1569.6	13.5
60°-70°	1497.3	12.8
70°-80°	1312.7	11.3
80°-90°	998.3	8.6
90°-100°	606.1	5.2
100°-110°	296.6	2.5
110°-120°	135.7	1.2
120°-130°	59.4	0.5
130°-140°	30.4	0.3
140°-150°	15.0	0.1
150°-160°	4.7	0.0
160°-170°	1.0	0.0
170°-180°	0.1	0.0
0°-90°	10515.2	90.2
0°-180°	11664.1	100.0

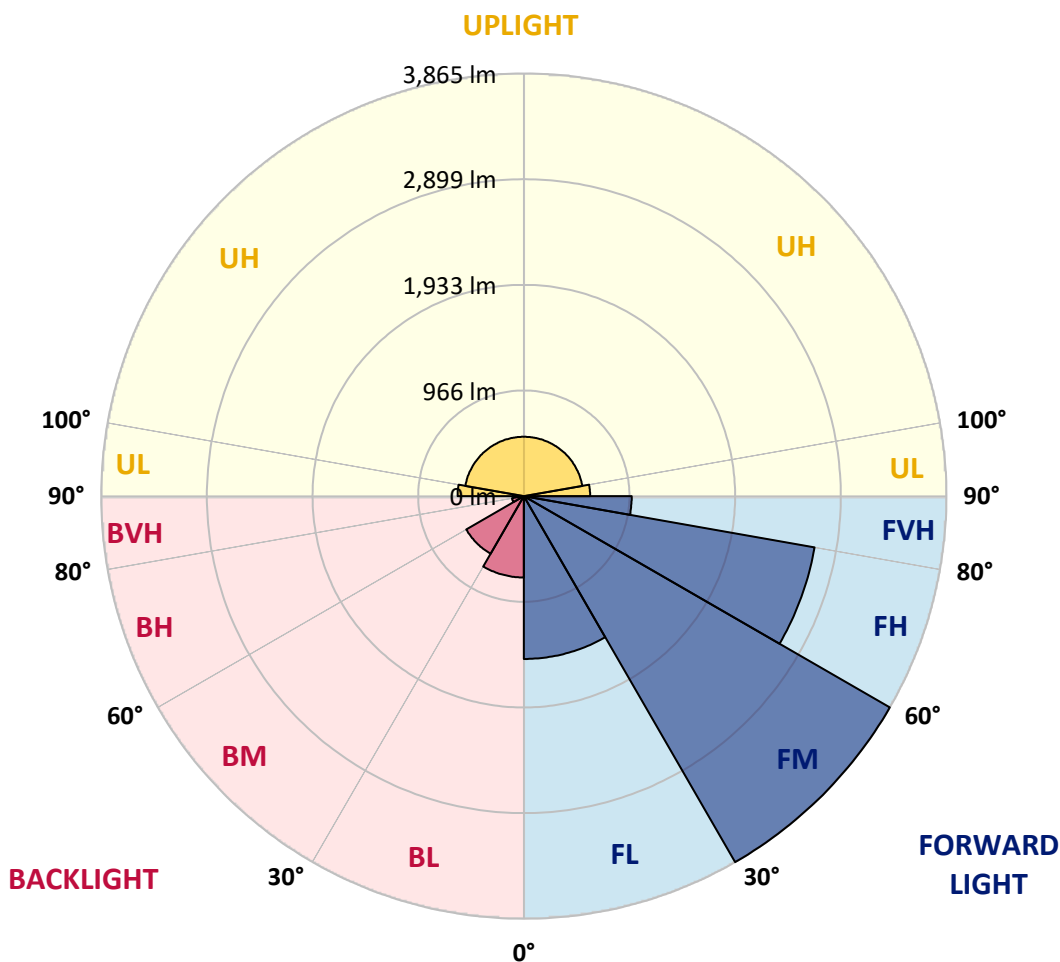


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1489.4	12.8			
FM (30°-60°)	3865.4	33.1			
FH (60°-80°)	2700.5	23.2			G2/5000
FVH (80°-90°)	986.5	8.5			G5
BL (0°-30°)	743.9	6.4	B2/1000		
BM (30°-60°)	608.2	5.2	B1/1000		
BH (60°-80°)	109.4	0.9	B0/110		G0/110
BVH (80°-90°)	11.8	0.1			G1/100
UL (90°-100°)	606.1	5.2		U4/1000	
UH (100°-180°)	542.8	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°	3509.5	3509.5	3509.5	3509.5	3509.5	3509.5	3509.5	3509.5	3509.5	3509.5	3509.5
2.5°	3506.3	3504.7	3502.3	3506.3	3511.9	3530.2	3561.3	3565.3	3529.4	3507.1	3505.5
5°	3682.4	3682.4	3673.6	3672.0	3629.0	3572.4	3515.9	3494.3	3550.9	3502.3	3498.3
7.5°	3723.8	3724.6	3723.8	3735.8	3727.8	3679.2	3637.8	3515.9	3499.1	3504.7	3488.8
10°	3645.7	3645.7	3645.0	3672.0	3724.6	3700.7	3696.0	3614.7	3464.9	3500.7	3474.4
12.5°	3605.1	3585.2	3557.3	3522.2	3582.0	3657.7	3683.2	3633.0	3483.2	3476.0	3440.2
15°	3798.0	3786.0	3758.9	3676.8	3549.3	3519.0	3639.4	3636.2	3505.5	3425.8	3393.1
17.5°	3698.3	3709.5	3738.2	3784.4	3723.8	3532.6	3507.9	3572.4	3488.8	3360.5	3330.2
20°	3609.9	3605.9	3582.0	3616.3	3724.6	3667.3	3385.2	3492.7	3426.6	3283.2	3249.7
22.5°	3744.6	3737.4	3633.0	3577.2	3562.9	3664.1	3480.8	3366.8	3367.6	3201.1	3172.4
25°	3789.2	3786.8	3826.6	3782.8	3539.8	3506.3	3536.6	3228.2	3307.9	3107.8	3082.3
27.5°	3752.5	3744.6	3707.9	3735.8	3731.0	3420.2	3458.5	3174.8	3221.0	3014.6	2979.6
30°	3923.1	3909.5	3862.5	3719.9	3630.6	3437.0	3317.4	3217.0	3120.6	2932.5	2880.7
32.5°	4258.6	4247.4	4148.6	3836.2	3593.2	3539.0	3224.2	3241.7	3025.8	2854.4	2775.5
35°	4376.5	4365.3	4237.8	4097.6	3685.6	3406.7	3205.1	3153.3	2911.8	2760.4	2664.0
37.5°	4351.8	4341.4	4267.3	4141.4	3873.7	3404.3	3292.7	3009.0	2797.9	2664.0	2533.3
40°	4316.7	4303.2	4245.8	4104.8	3842.6	3478.4	3134.9	2916.6	2710.2	2549.2	2392.2
42.5°	4526.3	4535.1	4469.7	4107.9	3792.4	3533.4	3083.1	2858.4	2640.1	2413.0	2222.5
45°	4328.7	4328.7	4386.1	4233.1	3825.8	3425.8	3085.5	2838.5	2566.0	2260.0	2049.6
47.5°	4466.5	4464.1	4376.5	4127.9	3894.4	3394.7	3116.6	2700.6	2437.7	2095.8	1874.3
50°	4582.1	4548.6	4410.8	4173.3	3777.2	3416.2	2973.2	2542.1	2260.0	1930.9	1696.6
51°	4639.5	4629.1	4474.5	4176.5	3747.7	3429.8	2918.2	2484.7	2184.3	1860.7	1628.8
52.5°	4468.9	4481.7	4510.4	4229.9	3773.2	3376.4	2864.8	2441.7	2083.9	1771.5	1542.0
55°	4286.4	4274.5	4284.8	4222.7	3839.4	3296.7	2846.5	2369.9	1953.2	1644.8	1410.5
57.5°	4379.7	4365.3	4246.6	4052.2	3868.9	3328.6	2779.5	2242.4	1848.8	1522.8	1281.4
60°	4480.1	4480.1	4406.8	4006.7	3722.2	3364.4	2644.9	2076.7	1725.3	1402.5	1143.5
62.5°	4208.3	4195.6	4163.7	4071.3	3639.4	3279.2	2585.9	2013.7	1590.6	1277.4	1016.8
65°	4044.2	4036.2	3977.3	3815.5	3614.7	3136.5	2533.3	1974.7	1510.1	1150.7	890.1
67.5°	4069.7	4072.9	3980.4	3734.2	3421.0	3056.8	2398.6	1840.8	1428.0	1035.2	761.8
70°	3996.4	3997.2	3907.9	3678.4	3343.7	2888.7	2261.6	1756.3	1282.2	921.2	622.4
72.5°	3933.4	3931.0	3856.9	3609.9	3303.1	2800.3	2103.0	1700.6	1179.4	770.6	487.7
75°	3746.2	3739.8	3668.1	3472.8	3165.2	2698.3	1977.9	1506.9	1093.3	626.4	367.4
77.5°	3542.9	3552.5	3467.2	3275.2	2993.1	2540.5	1836.8	1330.8	963.4	488.5	270.1
80°	3500.7	3499.9	3403.5	3151.7	2866.4	2401.8	1694.2	1185.8	835.9	363.4	191.3
82.5°	3318.2	3314.2	3228.2	3034.5	2694.3	2237.7	1542.0	1051.1	661.4	261.4	133.9
85°	3044.1	3068.8	2987.5	2773.2	2483.1	2033.6	1393.0	909.2	528.3	185.7	90.0
87.5°	2774.8	2774.0	2669.6	2483.1	2246.4	1846.4	1224.8	768.2	412.8	127.5	59.8
90°	2646.5	2642.5	2546.8	2307.0	2019.3	1584.2	1043.1	640.7	314.0	86.1	43.8
92.5°	2404.2	2389.9	2272.7	2043.2	1751.6	1349.9	877.4	518.8	241.5	64.5	37.5
95°	2053.6	2059.1	1985.8	1800.2	1521.3	1152.3	728.4	420.8	190.5	53.4	37.5
97.5°	1727.6	1719.7	1633.6	1471.8	1280.6	968.2	608.8	333.1	154.6	50.2	38.3
100°	1444.0	1440.0	1361.9	1224.0	1039.1	793.7	490.9	269.3	128.3	50.2	39.8
102.5°	1248.7	1238.4	1178.6	1054.3	868.6	620.8	395.3	223.1	108.4	51.8	41.4
105°	1067.0	1063.8	1016.8	907.7	729.9	522.0	324.3	186.5	94.8	53.4	42.2
107.5°	896.5	896.5	854.3	754.6	609.6	445.5	276.5	157.8	86.1	53.4	42.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	747.5	744.3	699.7	615.2	493.3	362.6	231.1	134.7	80.5	52.6	41.4
112.5°	627.9	623.2	582.5	510.0	406.4	292.5	192.8	117.9	77.3	51.8	40.6
115°	501.2	492.5	463.8	405.6	323.5	241.5	162.6	102.8	73.3	50.2	39.8
117.5°	404.0	402.4	380.9	325.1	261.4	198.4	137.9	90.8	69.3	47.0	37.5
120°	338.7	336.3	313.2	267.8	216.8	165.8	118.7	82.9	64.5	43.0	33.5
122.5°	270.9	266.2	250.2	216.8	179.3	141.8	104.4	74.9	59.0	39.0	30.3
125°	218.3	216.0	200.8	175.3	149.8	123.5	93.2	68.5	53.4	34.3	26.3
127.5°	175.3	172.1	161.8	146.6	129.1	108.4	83.7	63.0	47.0	30.3	23.1
130°	141.0	141.0	134.7	127.5	114.8	97.2	76.5	58.2	41.4	27.1	20.7
132.5°	119.5	118.7	118.7	115.5	105.2	88.5	70.1	54.2	37.5	23.9	18.3
135°	109.2	108.4	111.6	109.2	97.2	79.7	63.0	49.4	32.7	20.7	15.9
137.5°	114.0	113.2	111.6	102.8	87.7	70.9	56.6	43.8	27.9	17.5	13.5
140°	113.2	111.6	105.2	92.4	76.5	62.2	50.2	37.5	23.1	15.1	11.2
142.5°	99.6	98.8	90.8	78.9	65.3	53.4	43.8	31.9	19.1	12.0	9.6
145°	82.1	80.5	74.1	65.3	54.2	45.4	38.3	25.5	15.1	9.6	7.2
147.5°	62.2	62.2	58.2	52.6	45.4	39.0	31.9	19.9	12.0	8.0	6.4
150°	50.2	50.2	47.0	43.0	38.3	33.5	24.7	15.9	8.8	6.4	5.6
152.5°	40.6	40.6	38.3	35.1	31.9	25.5	18.3	11.2	7.2	5.6	4.8
155°	32.7	31.9	30.3	27.9	25.5	19.9	13.5	8.0	5.6	4.8	4.0
157.5°	24.7	25.5	23.9	21.5	18.3	13.5	8.8	6.4	4.8	4.0	3.2
160°	19.1	19.1	17.5	15.9	12.8	8.8	6.4	4.8	4.0	3.2	3.2
162.5°	13.5	13.5	12.8	10.4	8.0	6.4	5.6	4.0	4.0	3.2	3.2
165°	8.8	8.8	8.0	6.4	5.6	4.8	4.0	4.0	3.2	3.2	3.2
167.5°	5.6	4.8	4.8	4.8	4.0	4.0	4.0	4.0	4.0	3.2	3.2
170°	2.4	2.4	2.4	3.2	3.2	3.2	4.0	4.0	3.2	3.2	2.4
172.5°	0.0	0.8	1.6	2.4	3.2	3.2	4.0	4.0	3.2	3.2	2.4
175°	0.0	0.8	1.6	2.4	3.2	3.2	4.0	4.0	3.2	3.2	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°	3509.5	3509.5	3509.5	3509.5	3509.5	3509.5	3509.5	3509.5	3509.5	3509.5
2.5°	3518.2	3535.0	3522.2	3471.2	3429.8	3368.4	3350.1	3323.0	3328.6	3324.6
5°	3522.2	3487.2	3367.6	3262.4	3152.5	3001.1	2933.3	2890.3	2839.3	2841.7
7.5°	3518.2	3380.4	3201.1	2948.5	2762.0	2624.9	2505.4	2433.7	2407.4	2412.2
10°	3490.4	3264.8	2955.6	2665.6	2455.2	2326.1	2243.2	2162.7	2123.7	2132.5
12.5°	3429.0	3123.0	2715.0	2414.6	2245.6	2061.5	1867.9	1719.7	1672.7	1655.1
15°	3340.5	2941.3	2505.4	2234.5	1971.5	1659.1	1497.3	1395.3	1356.3	1340.4
17.5°	3226.6	2762.0	2318.9	2005.0	1625.6	1387.4	1241.5	1153.1	1112.5	1101.3
20°	3117.4	2563.6	2145.2	1721.3	1365.1	1164.2	1037.5	977.8	953.1	950.7
22.5°	2996.3	2388.3	1954.8	1452.7	1164.2	993.7	896.5	823.2	789.7	778.6
25°	2873.6	2230.5	1738.0	1248.7	998.5	860.6	750.7	665.4	624.8	620.0
27.5°	2735.7	2069.5	1511.7	1074.2	867.0	715.6	601.6	543.5	514.0	507.6
30°	2594.7	1918.1	1302.9	937.9	741.9	591.3	506.0	459.0	438.3	434.3
32.5°	2462.4	1765.9	1138.7	816.8	626.4	502.0	434.3	402.4	383.3	383.3
35°	2318.1	1584.2	995.3	709.2	525.9	428.7	381.7	353.0	334.7	332.3
37.5°	2163.5	1416.1	867.0	601.6	451.0	376.1	334.7	308.4	297.2	293.3
40°	2003.4	1246.3	745.9	515.6	392.1	331.5	294.8	267.0	252.6	253.4
42.5°	1828.1	1092.5	647.1	439.9	344.3	290.9	253.4	223.1	209.6	209.6
45°	1652.7	944.3	565.0	376.9	298.8	249.4	210.4	180.9	167.3	166.5
47.5°	1488.6	822.4	482.1	329.1	261.4	210.4	169.7	143.4	131.5	130.7
50°	1326.8	714.0	413.6	290.1	223.1	172.9	135.5	113.2	102.8	102.8
51°	1270.2	677.4	389.7	276.5	209.6	157.8	122.7	101.2	93.2	92.4
52.5°	1193.7	615.2	355.4	257.4	188.9	139.5	106.0	86.1	78.9	77.3
55°	1060.7	527.5	311.6	223.1	156.2	111.6	81.3	66.1	56.6	55.8
57.5°	937.9	455.0	278.9	192.8	129.1	85.3	59.0	45.4	38.3	37.5
60°	810.4	389.7	248.6	164.2	103.6	63.8	40.6	28.7	23.9	23.1
62.5°	689.3	331.5	219.9	137.9	80.5	45.4	23.1	13.5	12.8	12.8
65°	584.9	286.9	192.0	114.8	59.8	27.9	7.2	3.2	2.4	0.8
67.5°	478.9	247.0	165.0	92.4	41.4	12.0	0.0	0.0	0.0	0.0
70°	382.5	212.0	139.5	73.3	26.3	2.4	0.0	0.0	0.0	0.0
72.5°	298.0	177.7	117.1	55.0	14.3	0.0	0.0	0.0	0.0	0.0
75°	228.7	148.2	95.6	40.6	4.0	0.0	0.0	0.0	0.0	0.0
77.5°	175.3	121.1	77.3	27.9	1.6	0.0	0.0	0.0	0.0	0.0
80°	130.7	97.2	59.8	19.1	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	97.2	77.3	45.4	13.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	71.7	61.4	35.9	9.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	51.8	49.4	28.7	7.2	0.0	0.0	0.0	0.0	0.0	0.0
90°	42.2	40.6	23.1	4.8	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	36.7	34.3	19.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	34.3	29.5	15.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	33.5	26.3	13.5	2.4	0.0	0.0	0.0	0.0	0.0	0.0
100°	33.5	23.9	11.2	2.4	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	33.5	21.5	9.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
105°	34.3	19.9	8.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	33.5	18.3	7.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P979156  
 CATALOG NUMBER: WPMLD26S-70W-5000K

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	32.7	16.7	5.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	31.9	15.9	4.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
115°	30.3	14.3	4.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	28.7	12.8	4.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0
120°	25.5	11.2	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	22.3	9.6	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0
125°	19.9	8.8	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	17.5	7.2	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0
130°	15.9	6.4	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°	12.0	5.6	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	10.4	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	8.8	4.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	7.2	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°	3.2	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°	2.4	1.6	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: SP1-2407-168-4

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.

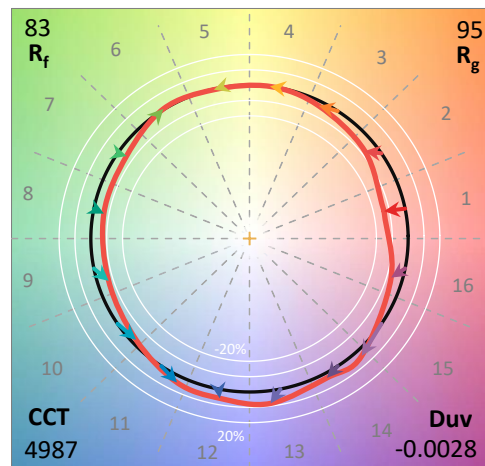
**Test Information**

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		



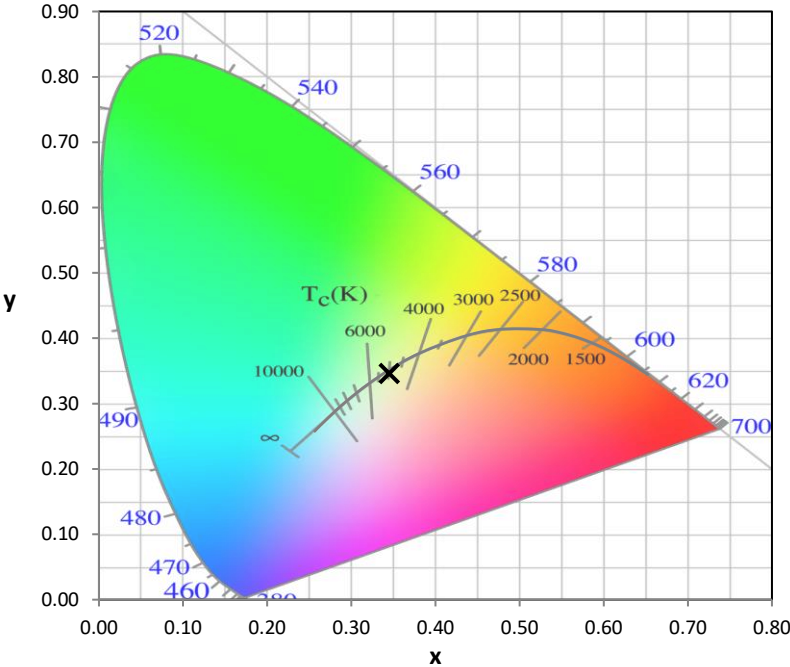
**Test Conditions**  
 Stabilization Time: 20M  
 Operation Time: 1H 20M  
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2407-168-4

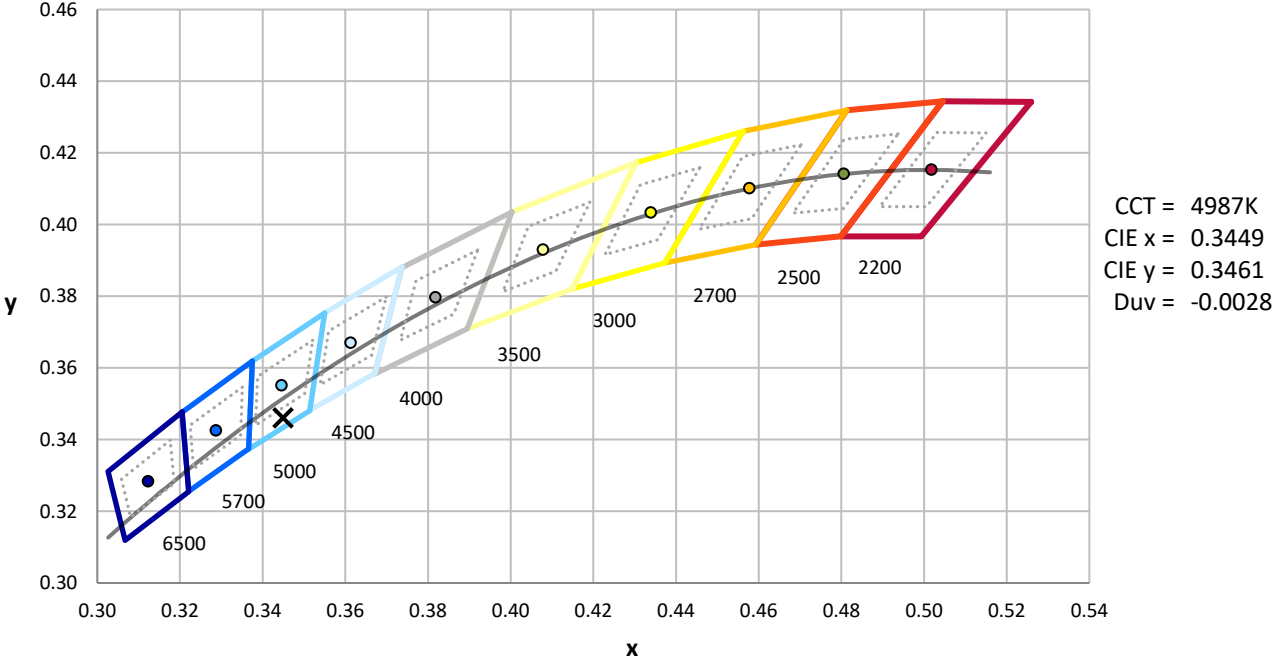
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



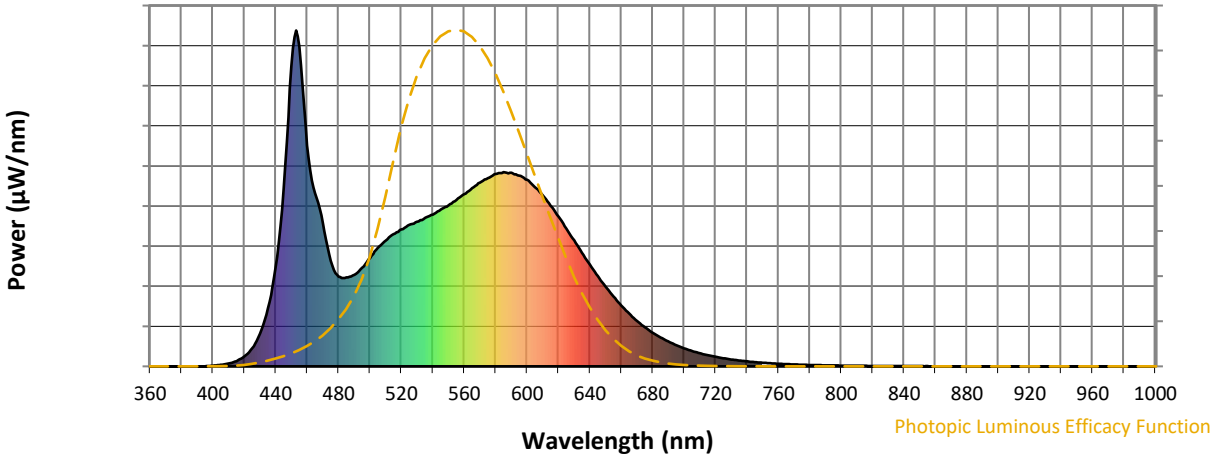
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-168-4

**Photopic Flux vs. Wavelength**

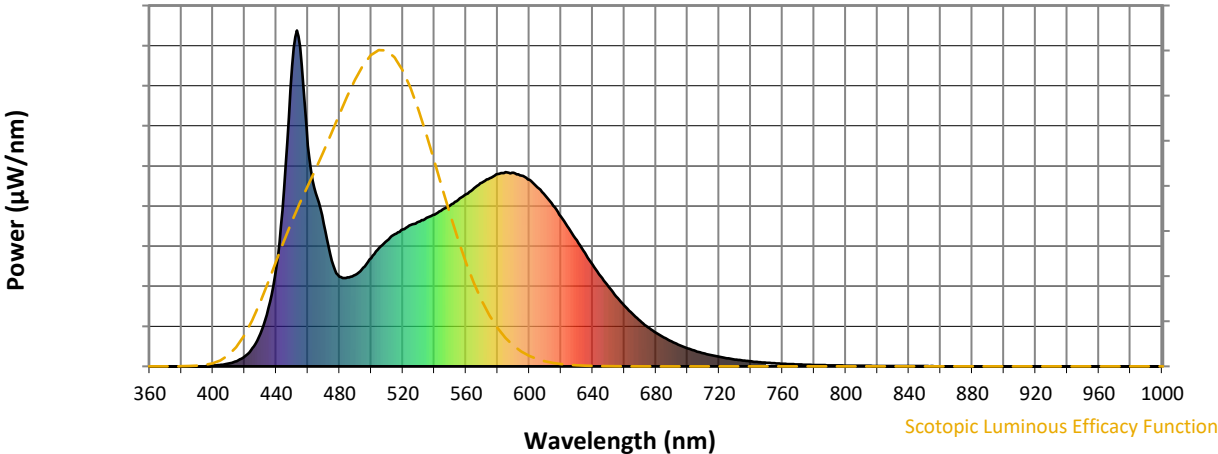


**Photopic Lumens: NR**

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

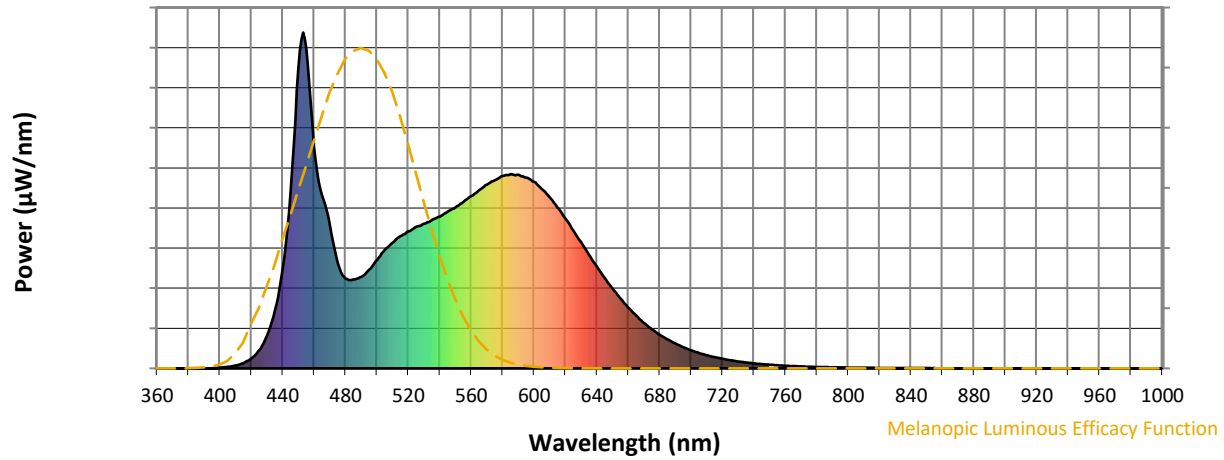
S/P: 2

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**



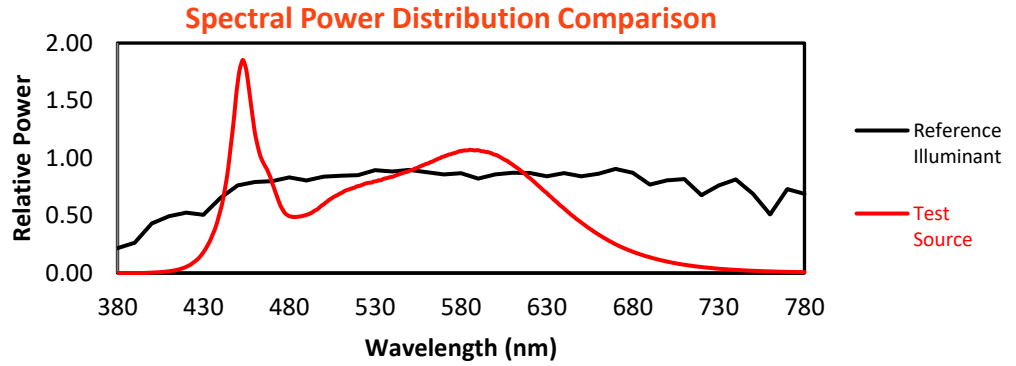
**Melanopic Lumens: NR**

**M/P: 4.35**

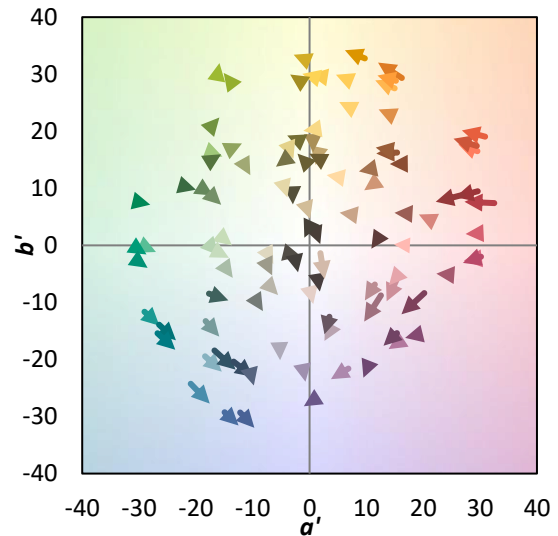
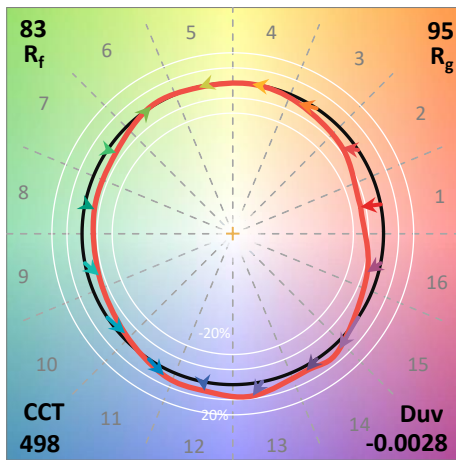
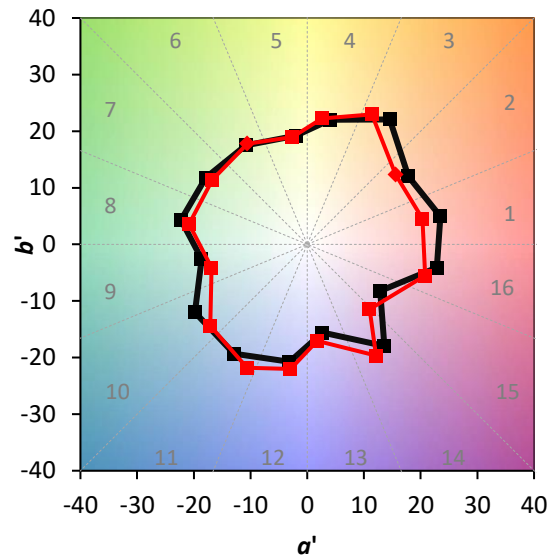
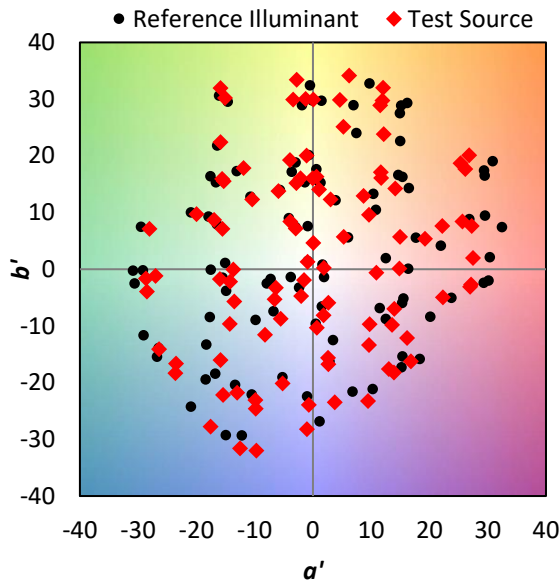
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	273	NR	620	446	NR	750	11	NR	880	0	NR
365	0	NR	495	294	NR	625	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**

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

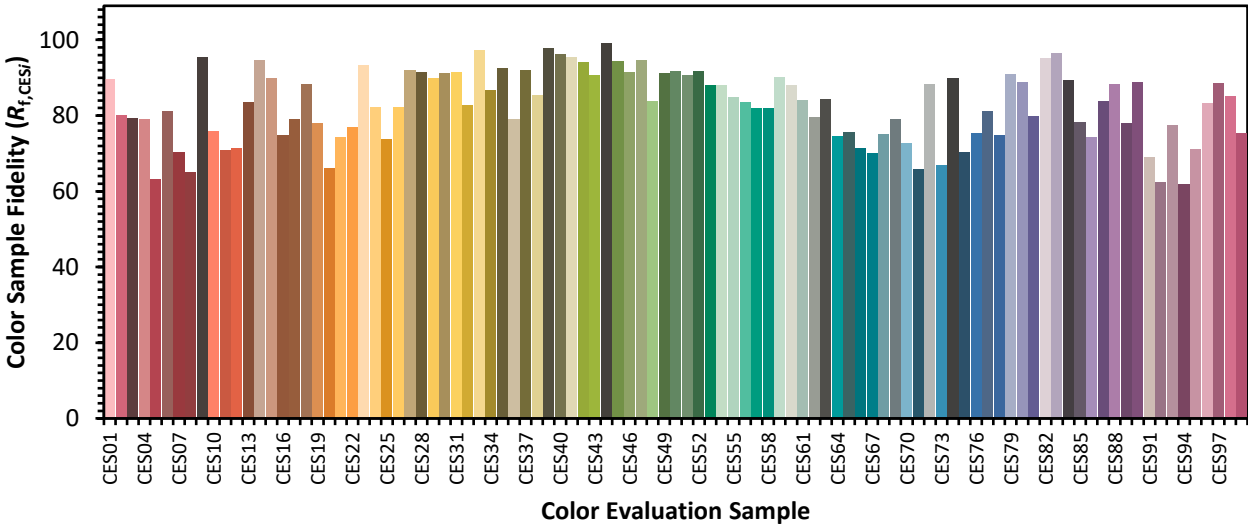


**Color Vector Graphics**

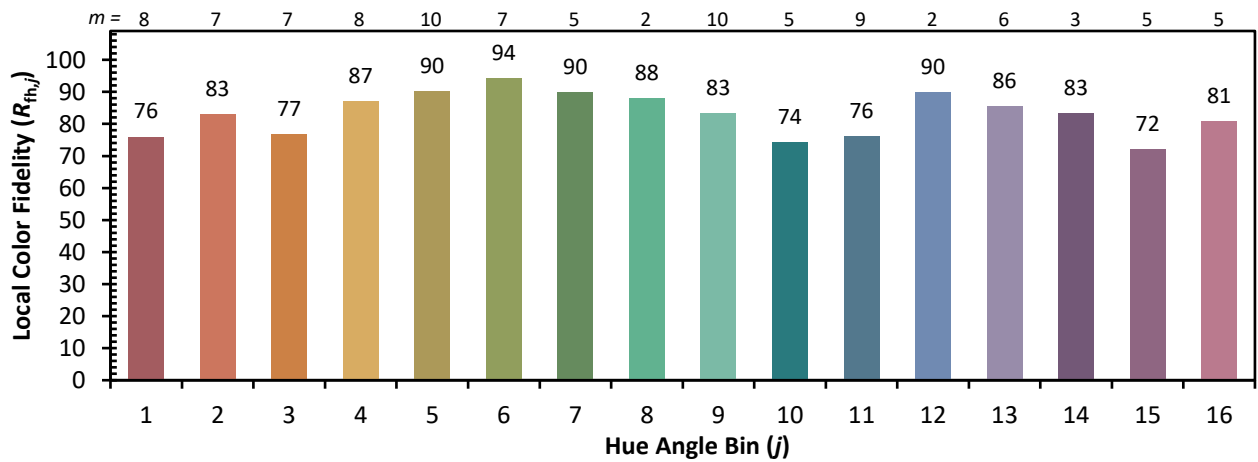
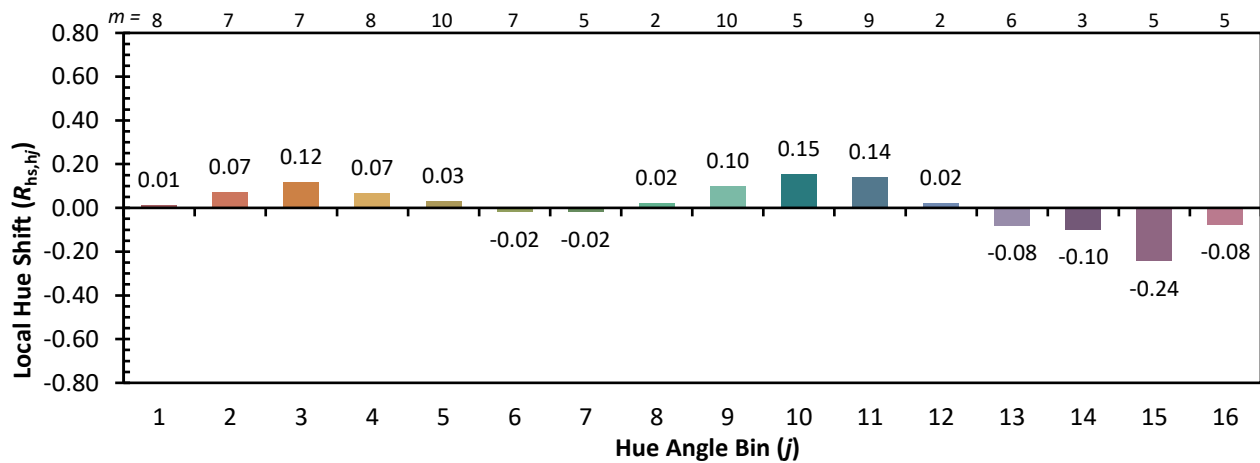
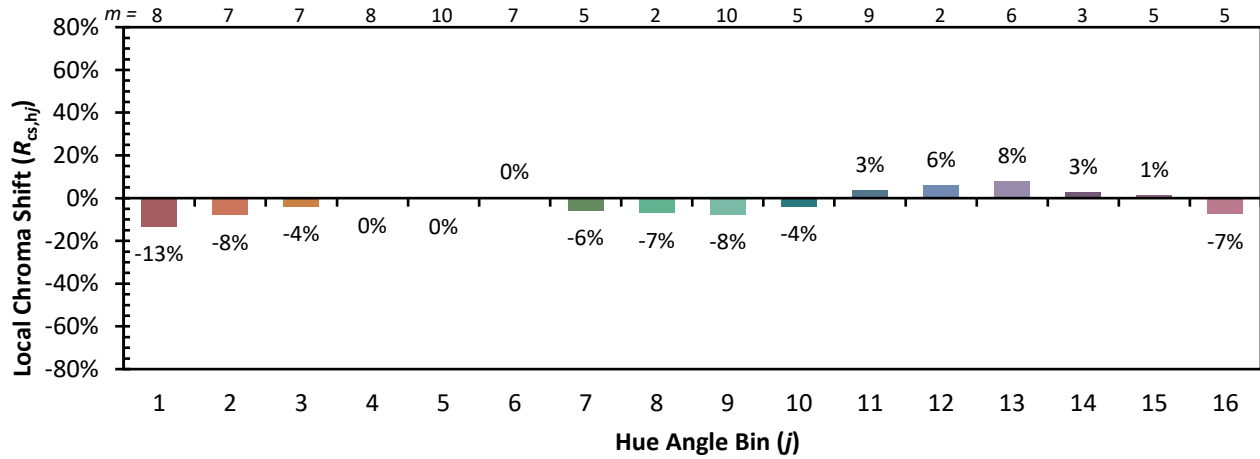


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

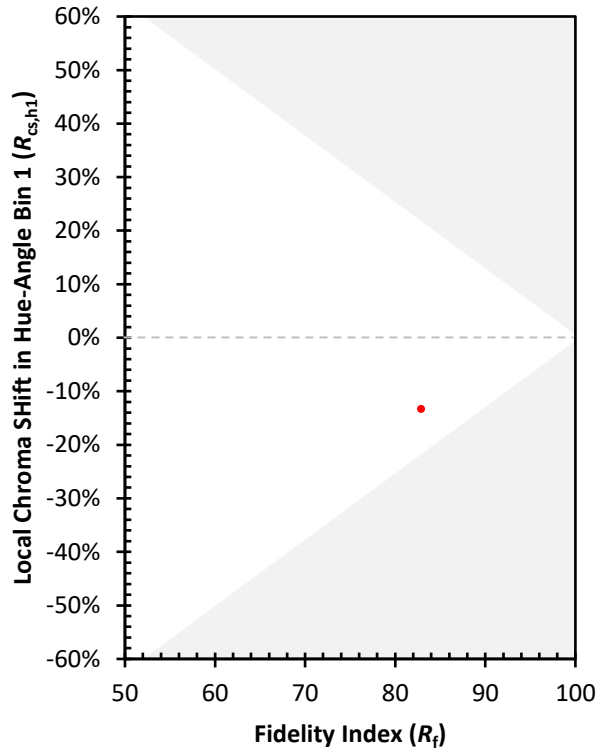
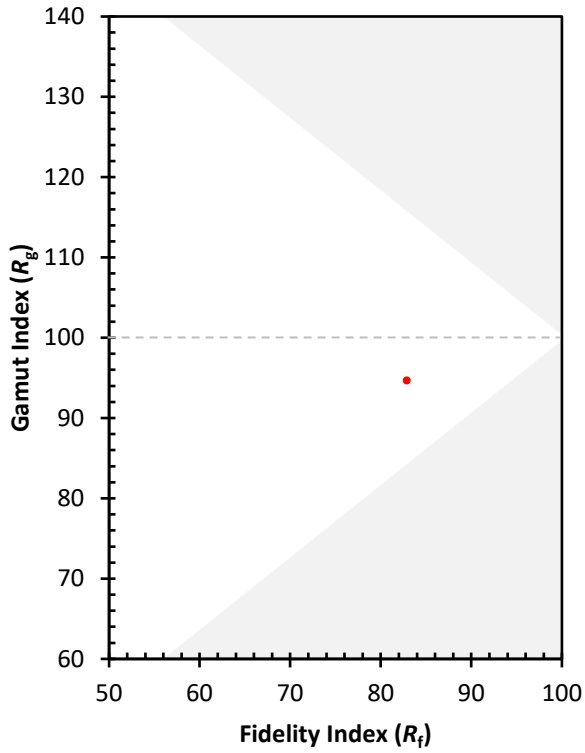
CES01 = 85	CES26 = 82	CES51 = 91	CES76 = 75
CES02 = 60	CES27 = 92	CES52 = 92	CES77 = 81
CES03 = 30	CES28 = 92	CES53 = 88	CES78 = 75
CES04 = 69	CES29 = 90	CES54 = 88	CES79 = 91
CES05 = 47	CES30 = 91	CES55 = 85	CES80 = 89
CES06 = 50	CES31 = 91	CES56 = 84	CES81 = 80
CES07 = 40	CES32 = 83	CES57 = 82	CES82 = 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)