

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: P979143

Luminaire Tested: **WPMLED26S-90W-3000K**

Issue Date: 03/31/2025



Test Information

Test Method: LM-79-08
Report Number: P979143
Test Lab: Cooper Lighting Solutions
Issue Date: 03/31/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: WPMLD26S-90W-3000K
Description: LUMARK WALL PACK LED MEDIUM 80CRI CCT AND LUMEN SELECTIVE FIXTURE
OPERATING @90W-3000K
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

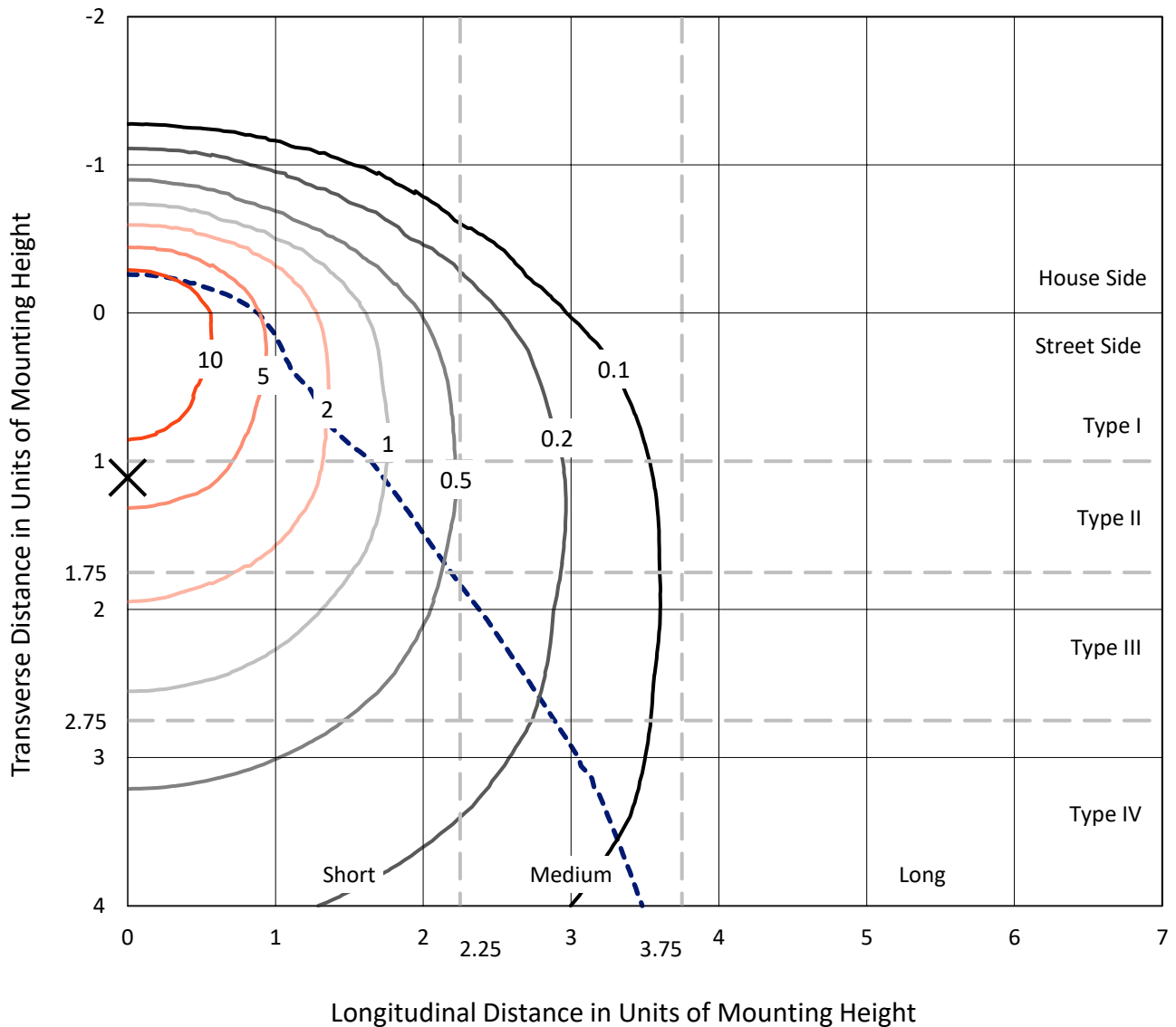
Lumens per Lamp: N/A
Luminaire Lumens: 13128.3 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.86' x L: 0.17' x H: 0.58')
IES Classification: Type IV - Short
BUG Rating: B3 - U3 - G5

Input Watts (W): 91.8
Input Voltage (V): 120
Input Current (A_{in}): 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

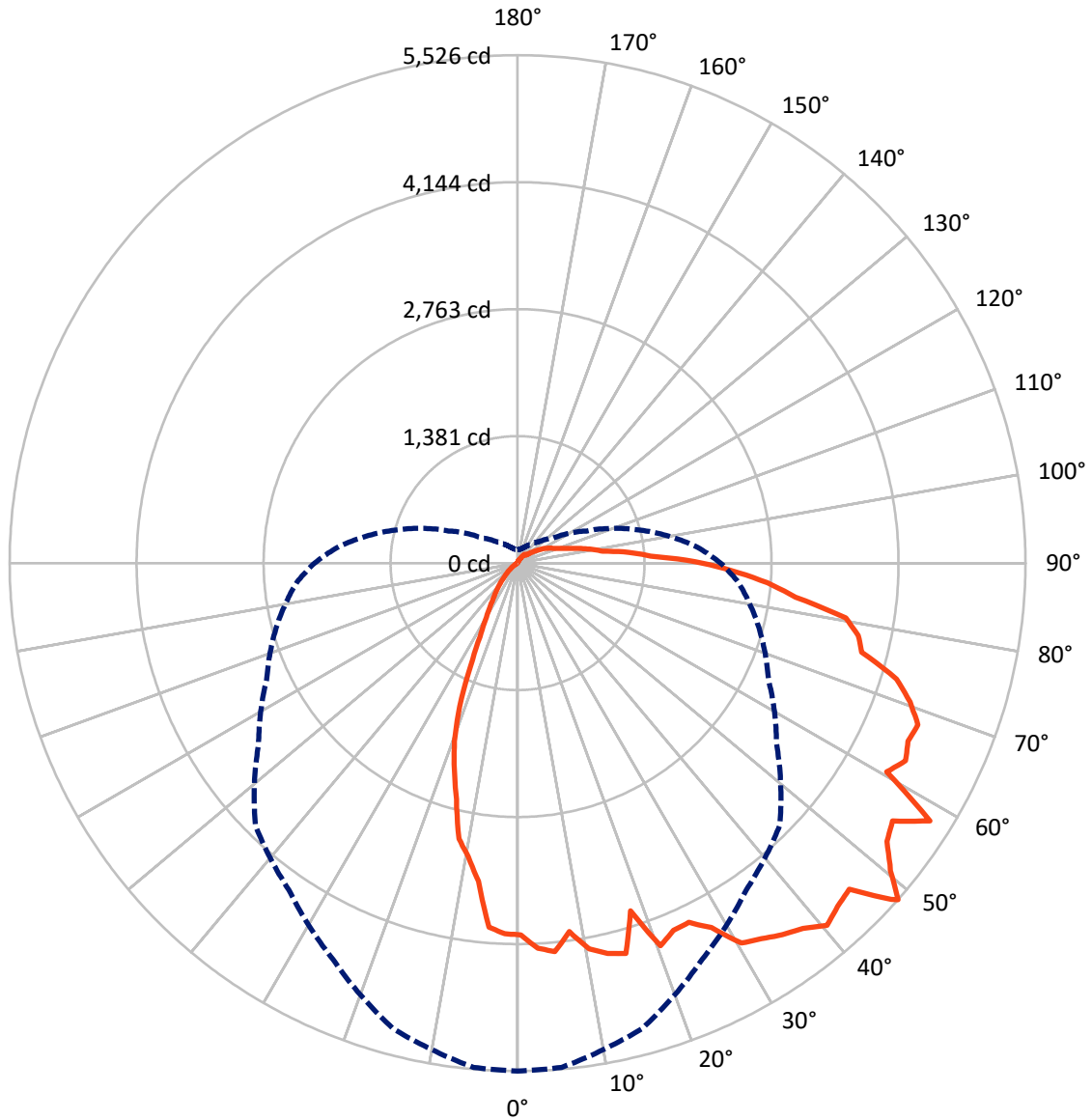
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 18 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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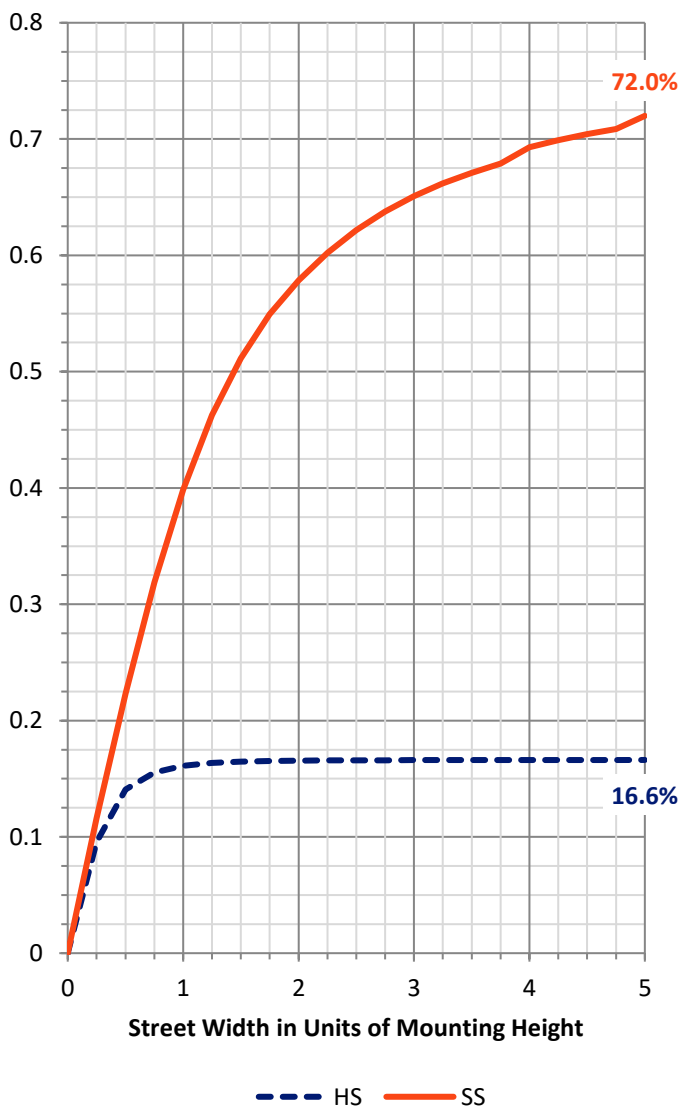
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2207.6	17.2	2224.8
	% Fixture	16.8	0.1	16.9
Street Side	Lumens	10080.9	822.5	10903.5
	% Fixture	76.8	6.3	83.1
Total	Lumens	12288.5	839.7	13128.3
	% Fixture	93.6	6.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.8	2.9
10°-20°	1037.7	7.9
20°-30°	1446.6	11.0
30°-40°	1697.3	12.9
40°-50°	1841.0	14.0
50°-60°	1834.6	14.0
60°-70°	1699.7	12.9
70°-80°	1424.4	10.8
80°-90°	924.4	7.0
90°-100°	417.1	3.2
100°-110°	197.9	1.5
110°-120°	110.0	0.8
120°-130°	60.1	0.5
130°-140°	32.9	0.3
140°-150°	15.8	0.1
150°-160°	4.9	0.0
160°-170°	1.0	0.0
170°-180°	0.1	0.0
0°-90°	12288.5	93.6
0°-180°	13128.3	100.0



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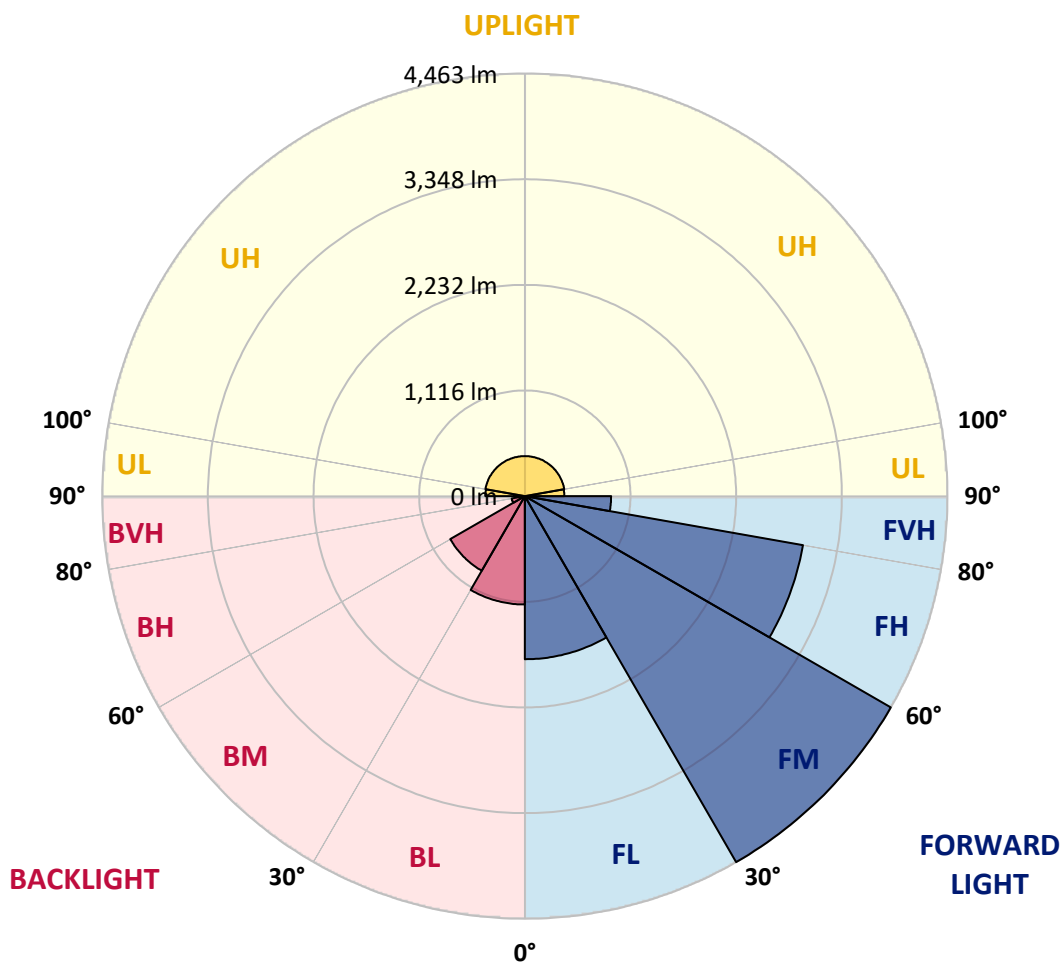
CATALOG NUMBER: WPMLED26S-90W-3000K

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1722.8	13.1			
FM (30°-60°)	4463.4	34.0			
FH (60°-80°)	2983.0	22.7			G2/5000
FVH (80°-90°)	911.7	6.9			G5
BL (0°-30°)	1144.3	8.7	B3/2500		
BM (30°-60°)	909.5	6.9	B1/1000		
BH (60°-80°)	141.0	1.1	B1/500		G1/500
BVH (80°-90°)	12.7	0.1			G1/100
UL (90°-100°)	417.1	3.2		U3/500	
UH (100°-180°)	422.7	3.2		U3/500	

BUG Rating: B3-U3-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3
2.5°	4193.8	4195.7	4187.2	4183.4	4181.5	4167.3	4150.3	4142.7	4129.5	4077.4	4041.5
5°	4244.8	4240.1	4238.2	4249.6	4270.4	4291.2	4218.4	4156.9	4120.0	4089.7	4030.1
7.5°	4048.1	4050.0	4059.5	4104.9	4205.1	4227.8	4242.0	4232.6	4140.8	4090.7	4011.2
10°	4267.5	4254.3	4216.5	4120.9	4056.6	4051.0	4207.0	4217.4	4150.3	4089.7	3988.5
12.5°	4356.5	4341.3	4307.3	4256.2	4209.9	4062.3	4045.3	4165.4	4180.5	4046.2	3935.6
15°	4406.6	4436.8	4494.5	4514.4	4313.9	4225.9	3991.4	4068.0	4139.9	3998.9	3884.5
17.5°	3977.2	3969.6	3970.6	4127.6	4444.4	4302.5	4110.5	3928.9	4026.4	3914.8	3806.9
20°	4443.5	4410.4	4288.4	3990.4	3984.7	4384.8	4126.6	3809.8	3914.8	3828.7	3726.5
22.5°	4337.5	4325.2	4372.5	4457.7	4044.3	3936.5	4228.8	3847.6	3833.4	3735.0	3642.4
25°	4330.0	4312.9	4257.1	4244.8	4396.2	3843.8	4093.5	3900.6	3737.9	3630.1	3551.6
27.5°	4490.8	4442.5	4283.6	4243.0	4142.7	4227.8	3723.7	3874.1	3566.7	3526.0	3457.0
30°	4797.2	4770.7	4703.6	4404.7	4120.9	4040.5	3639.5	3894.9	3394.6	3429.5	3365.2
32.5°	4871.9	4864.4	4895.6	4644.9	4238.2	3902.5	3924.2	3697.2	3320.8	3337.8	3259.3
35°	4963.7	4951.4	4897.5	4690.3	4452.9	3888.3	3781.4	3454.1	3289.6	3250.8	3147.7
37.5°	5042.2	5012.9	4847.3	4655.3	4409.4	4111.5	3620.6	3309.4	3308.5	3141.1	3010.5
40°	5181.2	5156.6	5022.3	4764.1	4335.6	4083.1	3566.7	3377.5	3320.8	3002.0	2849.8
42.5°	5105.5	5085.7	5085.7	4822.7	4367.8	3966.8	3620.6	3411.6	3163.8	2826.1	2655.9
45°	5059.2	5040.3	5069.6	4780.2	4473.7	3908.1	3666.0	3213.9	2956.6	2652.1	2454.4
47.5°	5468.7	5439.4	5114.1	4798.2	4334.7	4000.8	3470.2	3034.2	2750.4	2452.5	2256.7
48°	5525.5	5506.6	5241.7	4754.6	4338.5	4033.9	3439.0	3012.4	2718.3	2411.8	2208.5
50°	5257.8	5269.2	5307.9	5046.9	4426.4	3912.9	3386.0	2922.6	2555.6	2248.2	2049.6
52.5°	5029.9	5010.0	4945.7	4936.2	4551.3	3787.1	3365.2	2944.3	2399.5	2057.2	1872.7
55°	4950.4	4916.4	4837.9	4667.6	4482.2	3882.6	3287.7	2685.2	2252.0	1907.7	1725.2
57.5°	5290.0	5258.8	5079.1	4555.1	4302.5	3940.3	3089.1	2494.1	2061.9	1764.0	1572.9
60°	4612.8	4608.0	4730.1	4742.3	4135.1	3782.3	3034.2	2379.7	1927.6	1628.7	1423.5
62.5°	4735.7	4699.8	4460.5	4305.4	4186.2	3598.9	2978.4	2366.4	1843.4	1484.0	1269.3
65°	4668.6	4655.3	4559.8	4232.6	3908.1	3552.5	2830.8	2171.6	1781.0	1345.0	1121.7
67.5°	4697.9	4696.0	4574.9	4281.7	3828.7	3338.7	2669.1	2072.3	1580.5	1212.5	965.7
70°	4528.6	4522.0	4443.5	4224.0	3797.5	3212.0	2501.7	2046.8	1445.2	1069.7	786.9
72.5°	4311.1	4304.4	4209.9	4004.6	3684.9	3114.6	2313.5	1843.4	1363.9	908.9	611.9
75°	3867.5	3862.7	3823.0	3696.3	3399.3	2921.6	2130.0	1599.4	1185.1	733.0	468.2
77.5°	3789.0	3771.9	3604.5	3381.3	3180.8	2724.0	1949.3	1417.8	1081.1	571.3	335.8
80°	3621.5	3614.0	3566.7	3255.5	2925.4	2511.2	1782.9	1250.4	890.0	421.8	229.8
82.5°	3044.6	3036.1	3001.1	2913.1	2605.7	2197.1	1567.2	1079.2	716.9	300.8	156.1
85°	2725.9	2716.4	2620.9	2421.3	2264.3	1892.6	1351.6	914.6	567.5	209.0	101.2
87.5°	2329.6	2349.4	2290.8	2138.5	1864.2	1580.5	1115.1	751.9	431.3	140.0	65.3
90°	1932.3	1912.5	1878.4	1760.2	1581.4	1288.2	906.1	597.8	323.5	92.7	46.3
92.5°	1448.1	1451.8	1416.8	1359.1	1292.9	1056.5	721.7	453.0	241.2	68.1	38.8
95°	1219.2	1212.5	1186.1	1107.6	995.9	849.3	581.7	360.4	192.0	55.8	37.8
97.5°	934.5	921.2	906.1	893.8	820.0	669.6	484.3	301.7	158.0	53.9	41.6
100°	821.0	818.1	784.1	717.9	650.7	544.8	396.3	256.3	131.5	55.8	44.5
102.5°	708.4	715.0	706.5	657.3	562.8	452.1	328.2	215.6	112.6	57.7	46.3
105°	596.8	594.0	579.8	542.9	487.1	384.0	280.0	180.7	100.3	60.5	48.2
107.5°	513.6	511.7	499.4	461.6	407.6	330.1	234.6	154.2	90.8	60.5	48.2



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 CATALOG NUMBER: WPML26S-90W-3000K

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	455.9	454.0	440.8	403.9	349.0	281.9	201.5	132.4	86.1	59.6	48.2
112.5°	413.3	414.3	397.2	359.4	300.8	238.3	173.1	115.4	82.3	58.6	47.3
115°	376.4	376.4	359.4	320.6	262.9	207.1	151.3	102.1	78.5	56.7	46.3
117.5°	340.5	337.7	320.6	280.9	228.9	180.7	132.4	92.7	75.7	53.0	43.5
120°	297.9	297.0	279.0	242.1	200.5	158.9	118.2	85.1	70.9	49.2	38.8
122.5°	256.3	255.4	239.3	208.1	174.0	141.9	105.9	78.5	64.3	44.5	35.0
125°	217.5	217.5	204.3	178.8	152.3	125.8	95.5	71.9	57.7	38.8	31.2
127.5°	182.5	180.7	171.2	154.2	136.2	113.5	87.0	66.2	51.1	35.0	27.4
130°	155.1	151.3	145.7	137.1	123.0	103.1	80.4	61.5	45.4	30.3	24.6
132.5°	131.5	130.5	129.6	125.8	113.5	92.7	72.8	56.7	40.7	26.5	21.8
135°	120.1	120.1	123.0	118.2	105.0	83.2	65.3	51.1	35.0	23.6	18.9
137.5°	125.8	124.8	122.0	112.6	93.6	73.8	58.6	45.4	31.2	19.9	16.1
140°	124.8	123.0	115.4	100.3	80.4	64.3	51.1	39.7	25.5	17.0	13.2
142.5°	105.0	104.0	96.5	83.2	67.2	54.9	44.5	33.1	20.8	13.2	10.4
145°	85.1	84.2	78.5	68.1	56.7	46.3	38.8	27.4	17.0	10.4	8.5
147.5°	65.3	65.3	61.5	54.9	47.3	39.7	32.2	20.8	12.3	8.5	7.6
150°	52.0	52.0	49.2	45.4	39.7	34.0	25.5	16.1	9.5	7.6	6.6
152.5°	41.6	40.7	39.7	35.9	32.2	26.5	18.9	11.3	7.6	6.6	5.7
155°	33.1	33.1	31.2	28.4	25.5	19.9	13.2	8.5	6.6	4.7	4.7
157.5°	25.5	25.5	24.6	21.8	18.9	14.2	8.5	6.6	5.7	4.7	3.8
160°	19.9	18.9	18.0	16.1	13.2	8.5	6.6	4.7	4.7	3.8	2.8
162.5°	14.2	13.2	12.3	10.4	7.6	6.6	4.7	3.8	3.8	2.8	2.8
165°	8.5	8.5	8.5	6.6	5.7	4.7	3.8	3.8	3.8	2.8	2.8
167.5°	5.7	4.7	4.7	3.8	3.8	3.8	3.8	3.8	3.8	2.8	2.8
170°	1.9	1.9	1.9	2.8	2.8	3.8	3.8	3.8	3.8	2.8	2.8
172.5°	0.0	0.9	1.9	1.9	2.8	3.8	3.8	3.8	3.8	2.8	2.8
175°	0.0	0.9	0.9	1.9	2.8	2.8	3.8	3.8	3.8	2.8	2.8
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°	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3
2.5°	4019.7	4036.8	4056.6	4046.2	4031.1	4013.1	4015.0	4026.4	4037.7	4033.0
5°	4016.9	4046.2	4003.7	4064.2	4085.9	4063.2	4014.1	3978.1	3976.2	3971.5
7.5°	4020.7	4000.8	4068.9	4016.9	3917.6	3738.8	3638.6	3538.3	3487.2	3487.2
10°	4015.0	4030.1	3997.0	3784.2	3549.7	3329.3	3248.0	3240.4	3239.4	3237.5
12.5°	3964.9	4024.5	3829.6	3488.2	3247.0	3230.0	3202.6	3143.9	3081.5	3065.4
15°	3903.4	3913.8	3597.0	3223.4	3192.1	3050.3	2834.6	2708.8	2654.9	2654.0
17.5°	3814.5	3747.3	3295.2	3148.6	2963.3	2678.6	2545.2	2429.8	2345.6	2349.4
20°	3726.5	3553.5	3105.1	2974.6	2631.3	2416.6	2234.0	2125.3	2066.6	2056.2
22.5°	3639.5	3371.9	2988.8	2687.1	2377.8	2120.5	1949.3	1791.4	1689.2	1684.5
25°	3548.7	3187.4	2830.8	2428.9	2110.1	1854.8	1571.0	1346.8	1243.8	1223.9
27.5°	3436.2	2967.0	2608.6	2183.9	1850.0	1489.7	1168.1	992.2	925.0	899.5
30°	3313.2	2776.0	2381.6	1943.7	1537.0	1130.3	891.0	765.2	710.3	704.6
32.5°	3176.1	2607.6	2171.6	1698.7	1228.6	873.9	699.9	609.1	567.5	564.7
35°	3015.3	2447.8	1940.8	1440.5	959.1	690.4	565.6	498.4	466.3	463.5
37.5°	2843.1	2262.4	1714.8	1170.9	756.7	561.8	466.3	411.4	389.7	386.8
40°	2648.3	2072.3	1461.3	939.2	607.2	464.4	387.8	341.4	317.8	313.1
42.5°	2446.8	1837.7	1245.6	745.3	503.2	386.8	316.9	277.1	260.1	258.2
45°	2226.5	1624.0	1042.3	601.5	416.2	319.7	259.2	221.3	204.3	199.6
47.5°	2005.1	1425.4	861.6	492.8	341.4	258.2	204.3	171.2	156.1	153.2
48°	1967.3	1385.6	827.6	475.7	330.1	248.8	193.9	160.8	148.5	147.5
50°	1801.8	1248.5	698.0	414.3	282.8	209.0	158.9	129.6	117.3	117.3
52.5°	1624.0	1081.1	566.5	347.1	231.7	166.5	123.0	97.4	88.0	86.1
55°	1452.8	913.7	461.6	289.4	190.1	127.7	92.7	72.8	65.3	63.4
57.5°	1291.0	752.9	391.6	242.1	151.3	96.5	65.3	49.2	41.6	39.7
60°	1136.9	618.6	333.9	199.6	119.2	70.9	44.5	29.3	21.8	21.8
62.5°	979.9	496.6	284.7	163.6	90.8	49.2	23.6	12.3	10.4	10.4
65°	841.8	406.7	237.4	130.5	64.3	28.4	4.7	0.0	0.0	0.0
67.5°	681.0	336.7	199.6	103.1	43.5	9.5	0.0	0.0	0.0	0.0
70°	529.7	276.2	164.6	79.4	23.6	0.9	0.0	0.0	0.0	0.0
72.5°	402.9	224.2	133.4	57.7	8.5	0.0	0.0	0.0	0.0	0.0
75°	296.0	177.8	107.8	38.8	2.8	0.0	0.0	0.0	0.0	0.0
77.5°	217.5	140.0	84.2	24.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	158.9	108.8	63.4	15.1	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	112.6	84.2	48.2	8.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	78.5	66.2	36.9	5.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	55.8	53.0	28.4	4.7	0.0	0.0	0.0	0.0	0.0	0.0
90°	44.5	43.5	22.7	3.8	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	37.8	35.9	17.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0
95°	35.0	30.3	13.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	35.9	28.4	11.3	1.9	0.0	0.0	0.0	0.0	0.0	0.0
100°	37.8	26.5	10.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	38.8	24.6	9.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0
105°	39.7	23.6	9.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	39.7	22.7	8.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P979143
 CATALOG NUMBER: WPMLD26S-90W-3000K

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	38.8	20.8	7.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	37.8	19.9	6.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0
115°	35.9	18.0	5.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	33.1	16.1	4.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
120°	30.3	14.2	4.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	26.5	12.3	3.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
125°	23.6	11.3	3.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	20.8	9.5	3.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
130°	18.0	8.5	3.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	16.1	7.6	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
135°	14.2	6.6	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	12.3	5.7	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
140°	10.4	4.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	8.5	3.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	7.6	3.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	6.6	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	5.7	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	4.7	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	3.8	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	2.8	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	2.8	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	2.8	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	2.8	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	2.8	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	2.8	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	2.8	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	1.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Lumark

Report Number: SP1-2407-168-1

Test Date: 08/08/2024

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

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

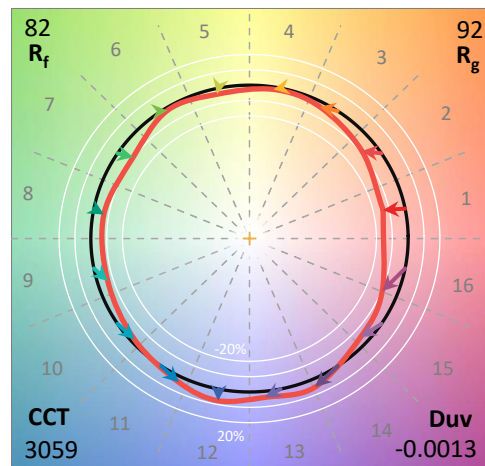
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-168-1
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/12/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Lumark
 Catalog Number: **LSDL-92S-100W 3000k**
 Description: Lumark Wallpack 100W

Spectral Parameters

CCT (K): 3059
 CIE u': 0.2490
 CIE v': 0.5184
 Duv: -0.0013
 CIE x: 0.4310
 CIE y: 0.3988
 CIE z: 0.1702
 Peak Wavelength (nm): 600
 Dominant Wavelength (nm): 583
 Purity: 49.0643
 Rf: 81.8
 Rg: 91.9

CRI (Ra):	79.3		
R1:	78.1	R9:	-8.3
R2:	92.3	R10:	82.8
R3:	91.2	R11:	73.1
R4:	74.6	R12:	70.5
R5:	78.8	R13:	81.8
R6:	90.5	R14:	95.7
R7:	77.6	R15:	69.8
R8:	50.9		



Test Conditions

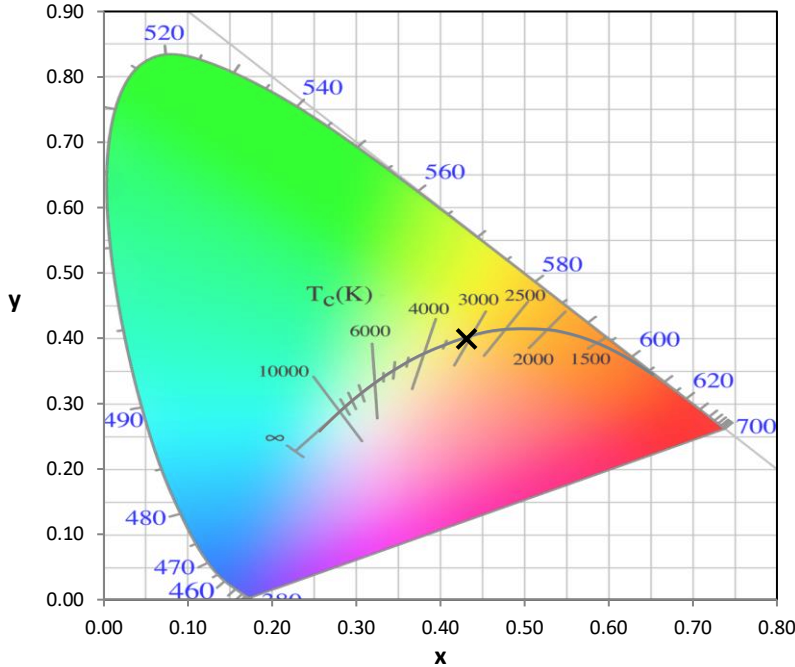
Stabilization Time: 51M
 Operation Time: 1H 51M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2407-168-1

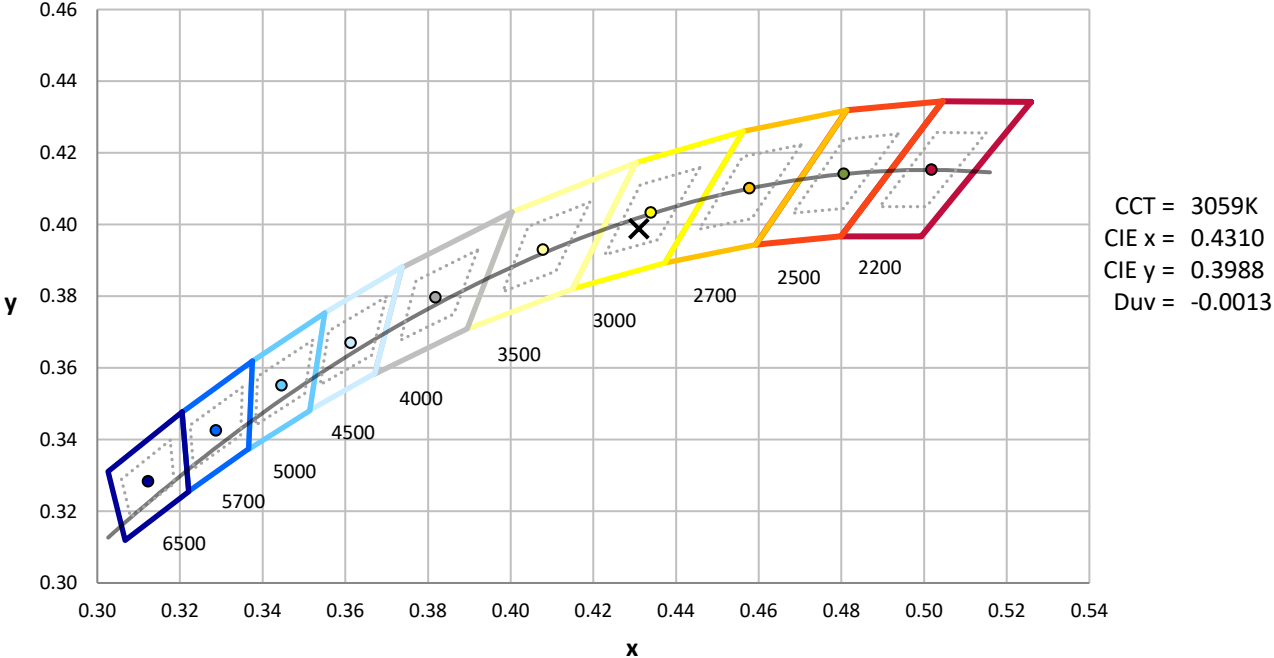
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



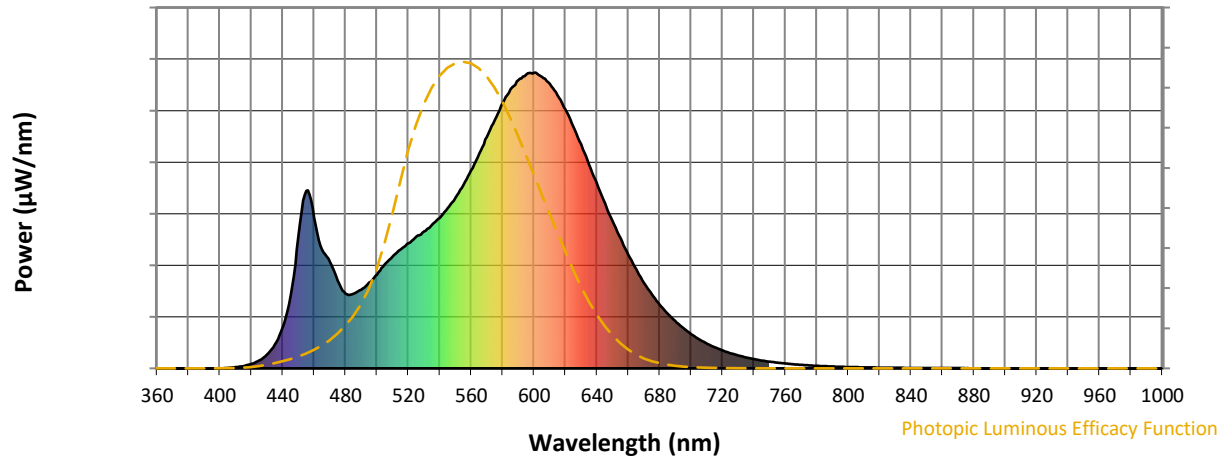
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-168-1

Photopic Flux vs. Wavelength

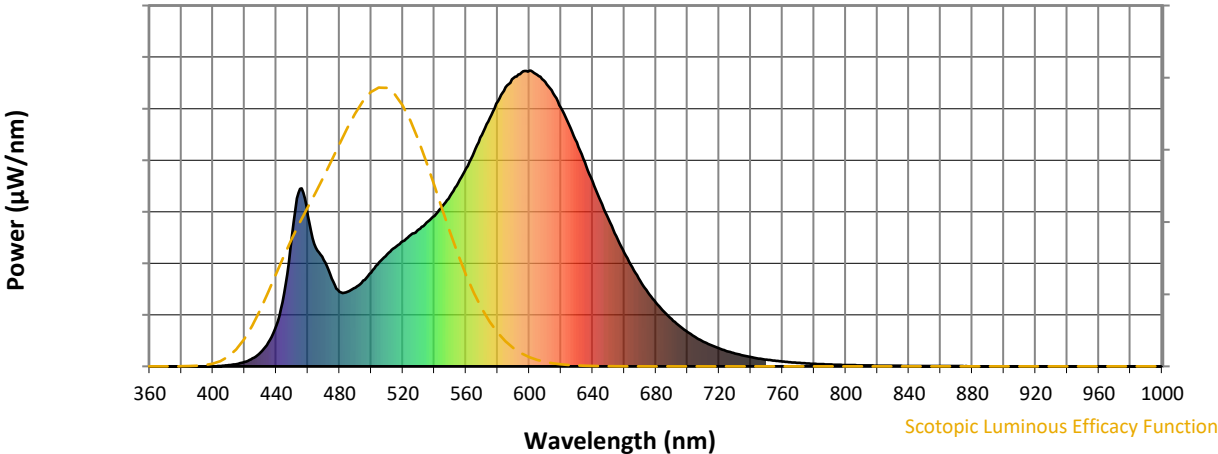


Photopic Lumens: NR

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	266	NR	620	875	NR	750	23	NR	880	0	NR
365	0	NR	495	290	NR	625	818	NR	755	19	NR	885	0	NR
370	0	NR	500	317	NR	630	758	NR	760	16	NR	890	0	NR
375	0	NR	505	352	NR	635	690	NR	765	14	NR	895	0	NR
380	0	NR	510	379	NR	640	625	NR	770	12	NR	900	0	NR
385	0	NR	515	402	NR	645	560	NR	775	10	NR	905	0	NR
390	0	NR	520	423	NR	650	498	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	440	NR	785	7	NR	915	0	NR
400	0	NR	530	463	NR	660	385	NR	790	6	NR	920	0	NR
405	1	NR	535	486	NR	665	335	NR	795	5	NR	925	0	NR
410	4	NR	540	509	NR	670	289	NR	800	5	NR	930	0	NR
415	8	NR	545	542	NR	675	250	NR	805	4	NR	935	0	NR
420	15	NR	550	577	NR	680	216	NR	810	3	NR	940	0	NR
425	27	NR	555	620	NR	685	185	NR	815	3	NR	945	0	NR
430	46	NR	560	670	NR	690	160	NR	820	3	NR	950	0	NR
435	81	NR	565	725	NR	695	136	NR	825	2	NR	955	0	NR
440	139	NR	570	782	NR	700	116	NR	830	2	NR	960	0	NR
445	246	NR	575	840	NR	705	99	NR	835	2	NR	965	0	NR
450	446	NR	580	896	NR	710	84	NR	840	1	NR	970	0	NR
455	601	NR	585	944	NR	715	71	NR	845	1	NR	975	0	NR
460	511	NR	590	975	NR	720	61	NR	850	1	NR	980	0	NR
465	402	NR	595	994	NR	725	51	NR	855	1	NR	985	0	NR
470	359	NR	600	1000	NR	730	44	NR	860	1	NR	990	0	NR
475	297	NR	605	985	NR	735	37	NR	865	1	NR	995	0	NR
480	252	NR	610	962	NR	740	32	NR	870	1	NR	1000	0	NR
485	252	NR	615	923	NR	745	27	NR	875	1	NR			

REPORT NUMBER: SP1-2407-168-1

Scotopic Flux vs. Wavelength



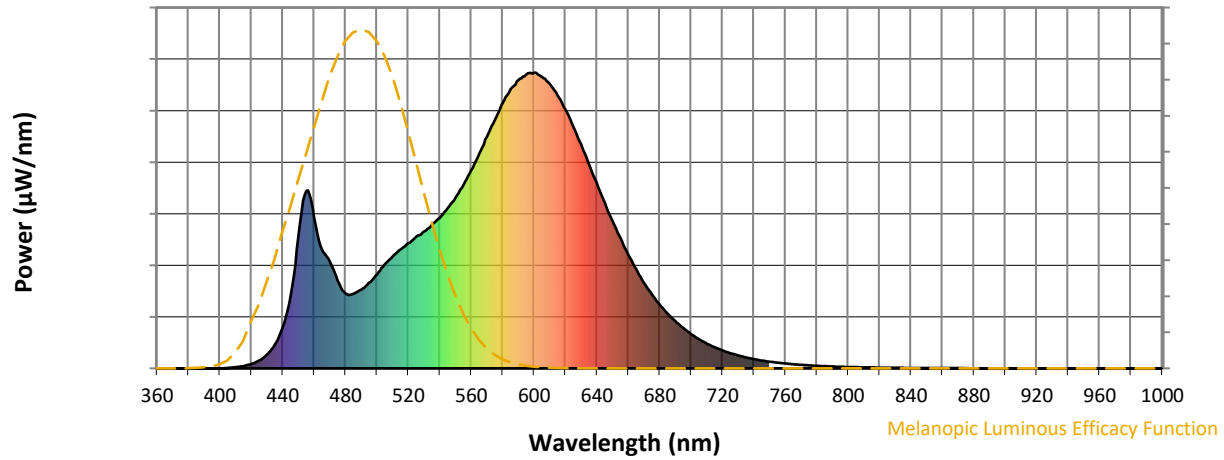
Scotopic Lumens: NR

S/P: 1.39

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	266	NR	620	875	NR	750	23	NR	880	0	NR
365	0	NR	495	290	NR	625	818	NR	755	19	NR	885	0	NR
370	0	NR	500	317	NR	630	758	NR	760	16	NR	890	0	NR
375	0	NR	505	352	NR	635	690	NR	765	14	NR	895	0	NR
380	0	NR	510	379	NR	640	625	NR	770	12	NR	900	0	NR
385	0	NR	515	402	NR	645	560	NR	775	10	NR	905	0	NR
390	0	NR	520	423	NR	650	498	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	440	NR	785	7	NR	915	0	NR
400	0	NR	530	463	NR	660	385	NR	790	6	NR	920	0	NR
405	1	NR	535	486	NR	665	335	NR	795	5	NR	925	0	NR
410	4	NR	540	509	NR	670	289	NR	800	5	NR	930	0	NR
415	8	NR	545	542	NR	675	250	NR	805	4	NR	935	0	NR
420	15	NR	550	577	NR	680	216	NR	810	3	NR	940	0	NR
425	27	NR	555	620	NR	685	185	NR	815	3	NR	945	0	NR
430	46	NR	560	670	NR	690	160	NR	820	3	NR	950	0	NR
435	81	NR	565	725	NR	695	136	NR	825	2	NR	955	0	NR
440	139	NR	570	782	NR	700	116	NR	830	2	NR	960	0	NR
445	246	NR	575	840	NR	705	99	NR	835	2	NR	965	0	NR
450	446	NR	580	896	NR	710	84	NR	840	1	NR	970	0	NR
455	601	NR	585	944	NR	715	71	NR	845	1	NR	975	0	NR
460	511	NR	590	975	NR	720	61	NR	850	1	NR	980	0	NR
465	402	NR	595	994	NR	725	51	NR	855	1	NR	985	0	NR
470	359	NR	600	1000	NR	730	44	NR	860	1	NR	990	0	NR
475	297	NR	605	985	NR	735	37	NR	865	1	NR	995	0	NR
480	252	NR	610	962	NR	740	32	NR	870	1	NR	1000	0	NR
485	252	NR	615	923	NR	745	27	NR	875	1	NR			

REPORT NUMBER: SP1-2407-168-1

Melanopic Flux vs. Wavelength



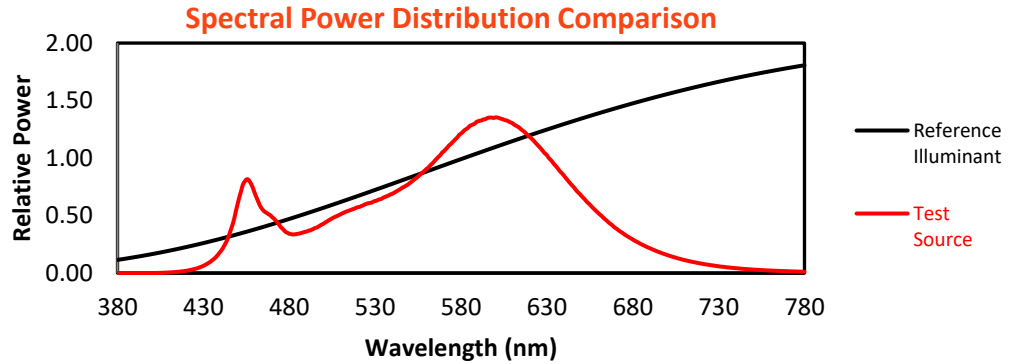
Melanopic Lumens: NR

M/P: 2.77

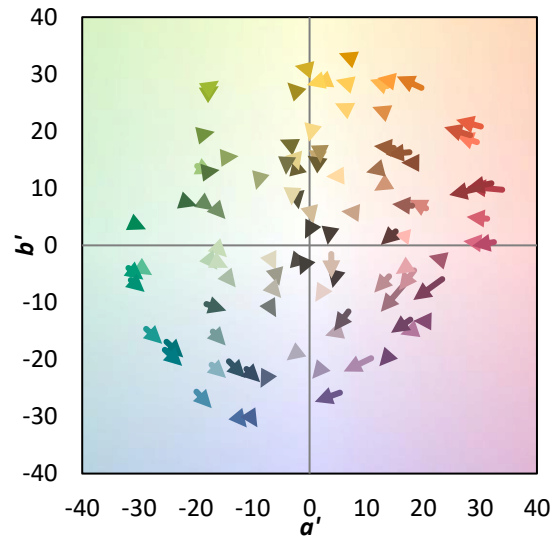
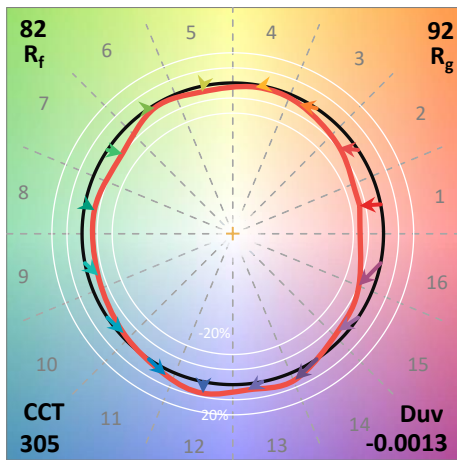
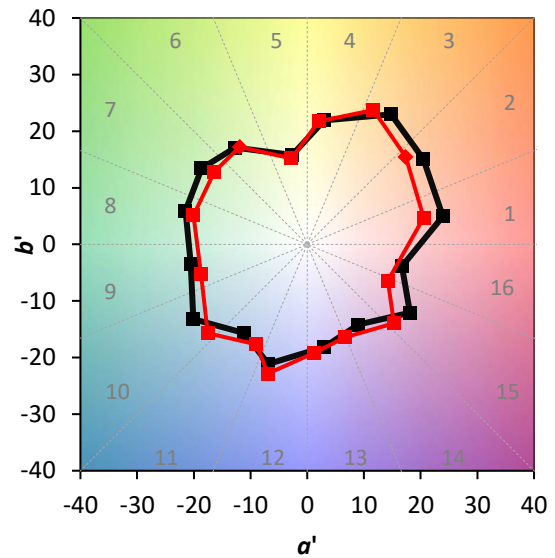
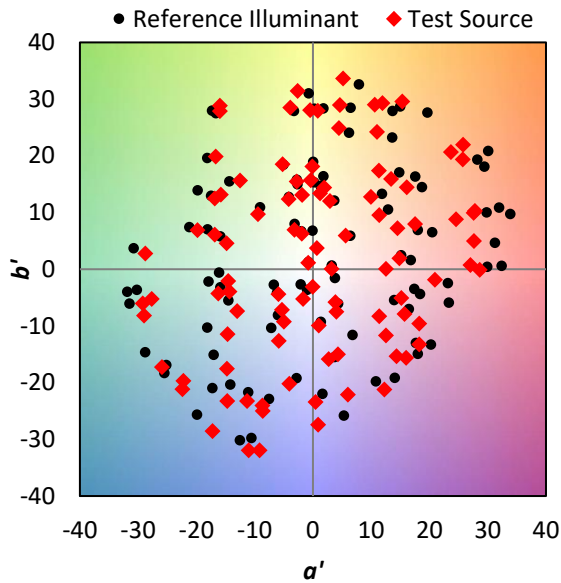
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	266	NR	620	875	NR	750	23	NR	880	0	NR
365	0	NR	495	290	NR	625	818	NR	755	19	NR	885	0	NR
370	0	NR	500	317	NR	630	758	NR	760	16	NR	890	0	NR
375	0	NR	505	352	NR	635	690	NR	765	14	NR	895	0	NR
380	0	NR	510	379	NR	640	625	NR	770	12	NR	900	0	NR
385	0	NR	515	402	NR	645	560	NR	775	10	NR	905	0	NR
390	0	NR	520	423	NR	650	498	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	440	NR	785	7	NR	915	0	NR
400	0	NR	530	463	NR	660	385	NR	790	6	NR	920	0	NR
405	1	NR	535	486	NR	665	335	NR	795	5	NR	925	0	NR
410	4	NR	540	509	NR	670	289	NR	800	5	NR	930	0	NR
415	8	NR	545	542	NR	675	250	NR	805	4	NR	935	0	NR
420	15	NR	550	577	NR	680	216	NR	810	3	NR	940	0	NR
425	27	NR	555	620	NR	685	185	NR	815	3	NR	945	0	NR
430	46	NR	560	670	NR	690	160	NR	820	3	NR	950	0	NR
435	81	NR	565	725	NR	695	136	NR	825	2	NR	955	0	NR
440	139	NR	570	782	NR	700	116	NR	830	2	NR	960	0	NR
445	246	NR	575	840	NR	705	99	NR	835	2	NR	965	0	NR
450	446	NR	580	896	NR	710	84	NR	840	1	NR	970	0	NR
455	601	NR	585	944	NR	715	71	NR	845	1	NR	975	0	NR
460	511	NR	590	975	NR	720	61	NR	850	1	NR	980	0	NR
465	402	NR	595	994	NR	725	51	NR	855	1	NR	985	0	NR
470	359	NR	600	1000	NR	730	44	NR	860	1	NR	990	0	NR
475	297	NR	605	985	NR	735	37	NR	865	1	NR	995	0	NR
480	252	NR	610	962	NR	740	32	NR	870	1	NR	1000	0	NR
485	252	NR	615	923	NR	745	27	NR	875	1	NR			

Summary

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

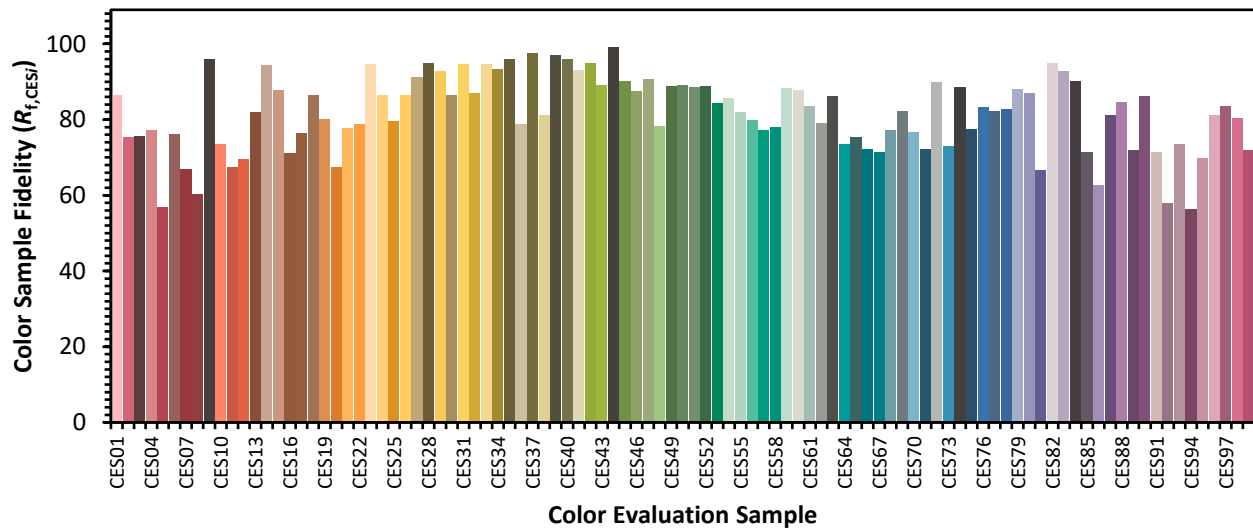


Color Vector Graphics

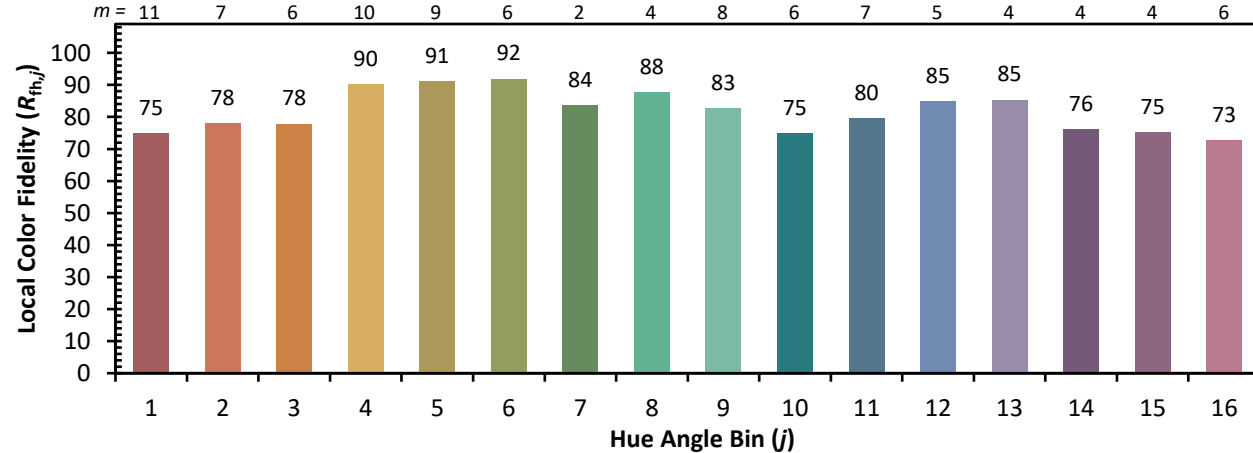
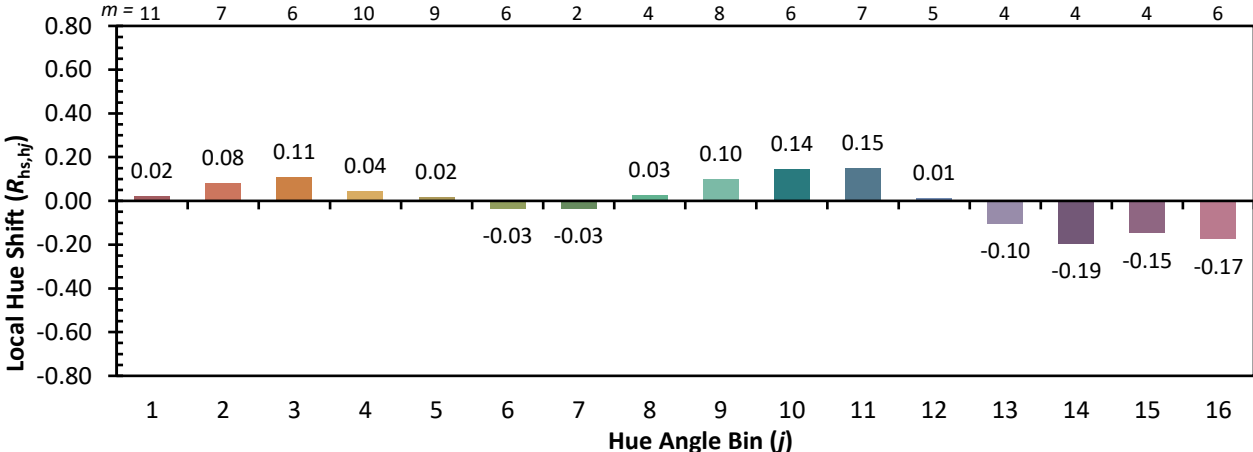
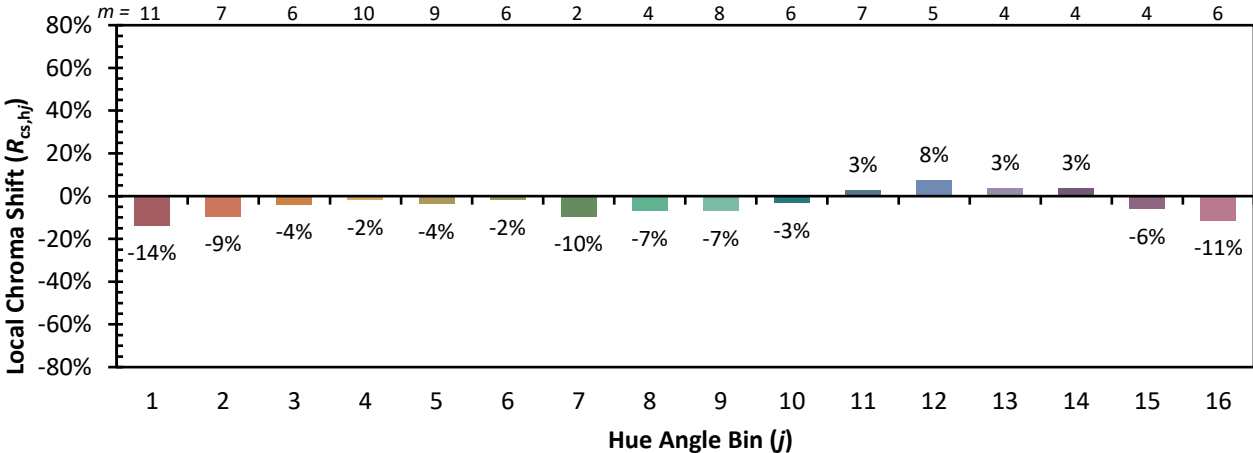


Individual Sample Fidelity Index ($R_{f,i}$)

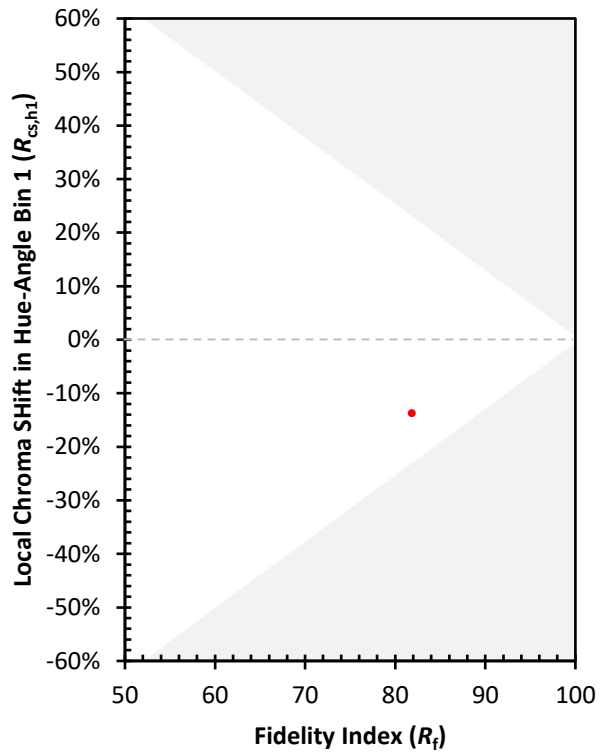
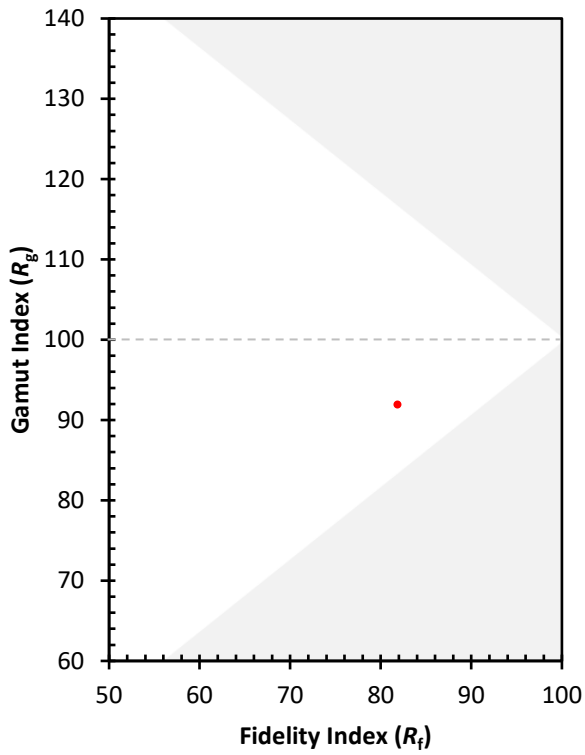
CES01 = 86	CES26 = 86	CES51 = 88	CES76 = 83
CES02 = 63	CES27 = 91	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 95	CES53 = 84	CES78 = 83
CES04 = 71	CES29 = 93	CES54 = 86	CES79 = 88
CES05 = 49	CES30 = 86	CES55 = 82	CES80 = 87
CES06 = 51	CES31 = 95	CES56 = 80	CES81 = 67
CES07 = 42	CES32 = 87	CES57 = 77	CES82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



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)