

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: P979147

Luminaire Tested: **WPMLED26S-90W-6500K**

Issue Date: 03/31/2025



Test Information

Test Method: LM-79-08
Report Number: P979147
Test Lab: Cooper Lighting Solutions
Issue Date: 03/31/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: WPMLD26S-90W-6500K
Description: LUMARK WALL PACK LED MEDIUM 80CRI CCT AND LUMEN SELECTIVE FIXTURE
OPERATING @90W-6500K
Light Source: 6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

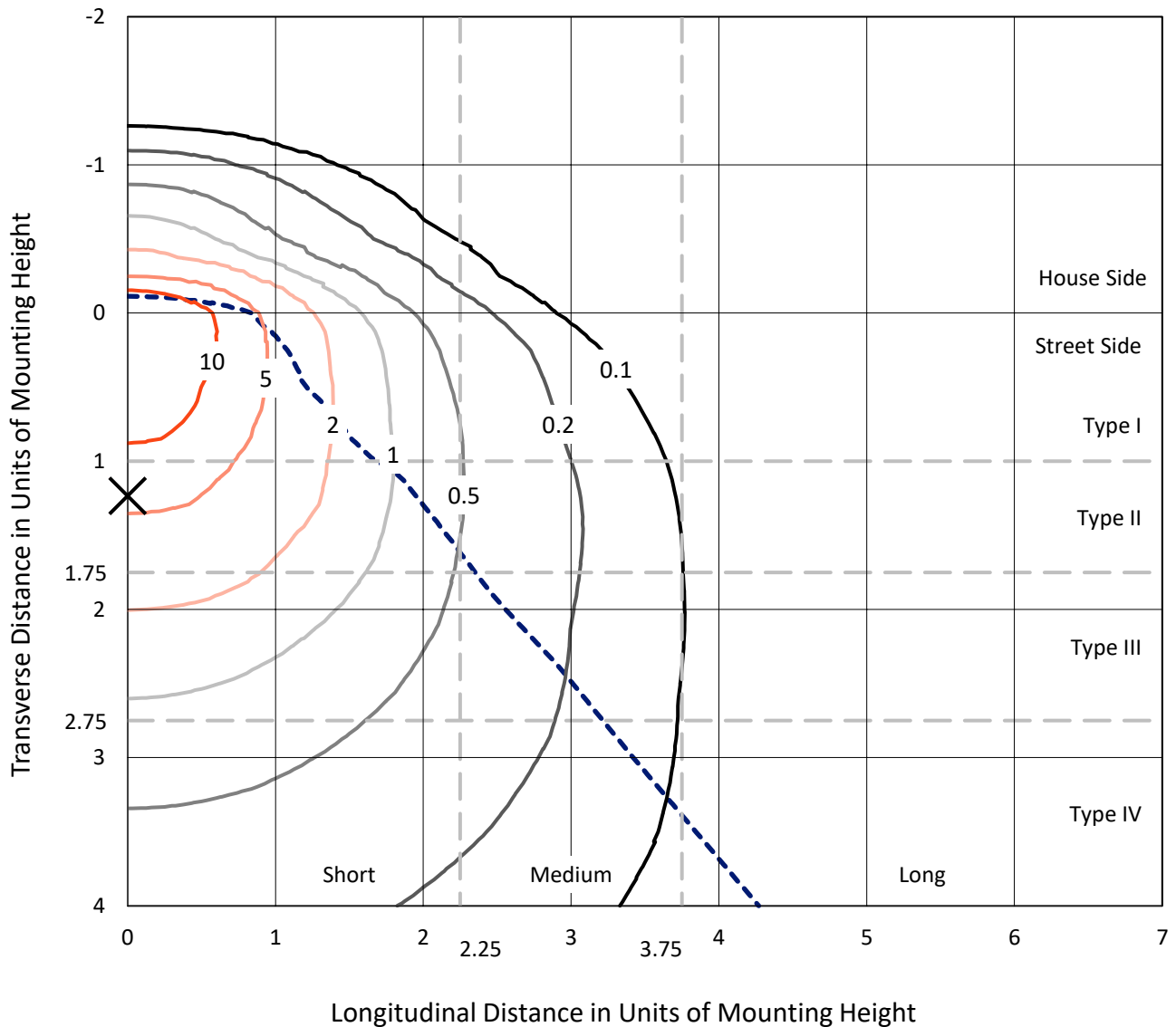
Lumens per Lamp: N/A
Luminaire Lumens: 14130.7 lumens
Efficiency: N/A
Efficacy: 153.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.86' x L: 0.17' x H: 0.58')
IES Classification: Type IV - Short
BUG Rating: B2 - U4 - G5

Input Watts (W): 91.9
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

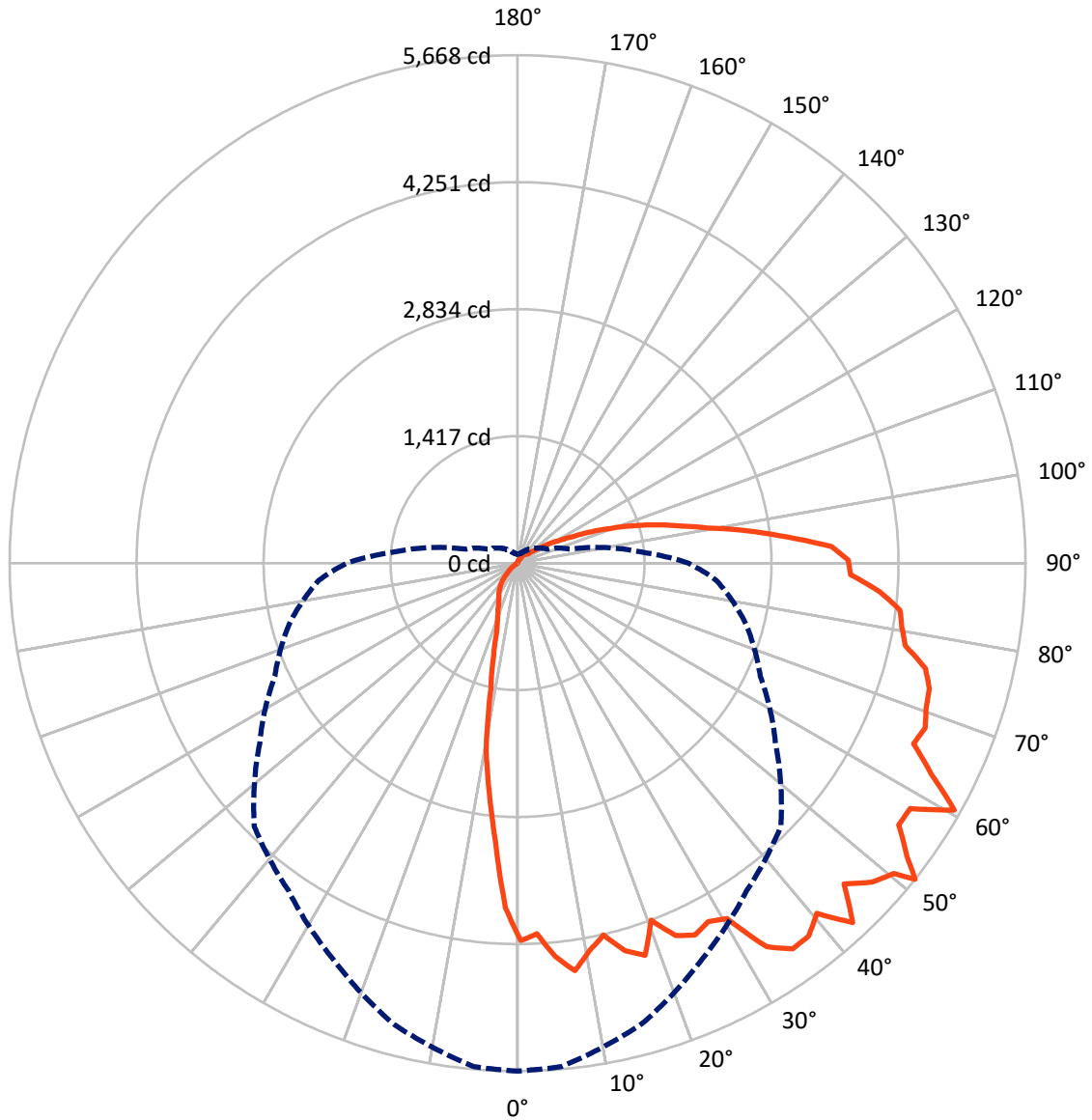
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 19.8 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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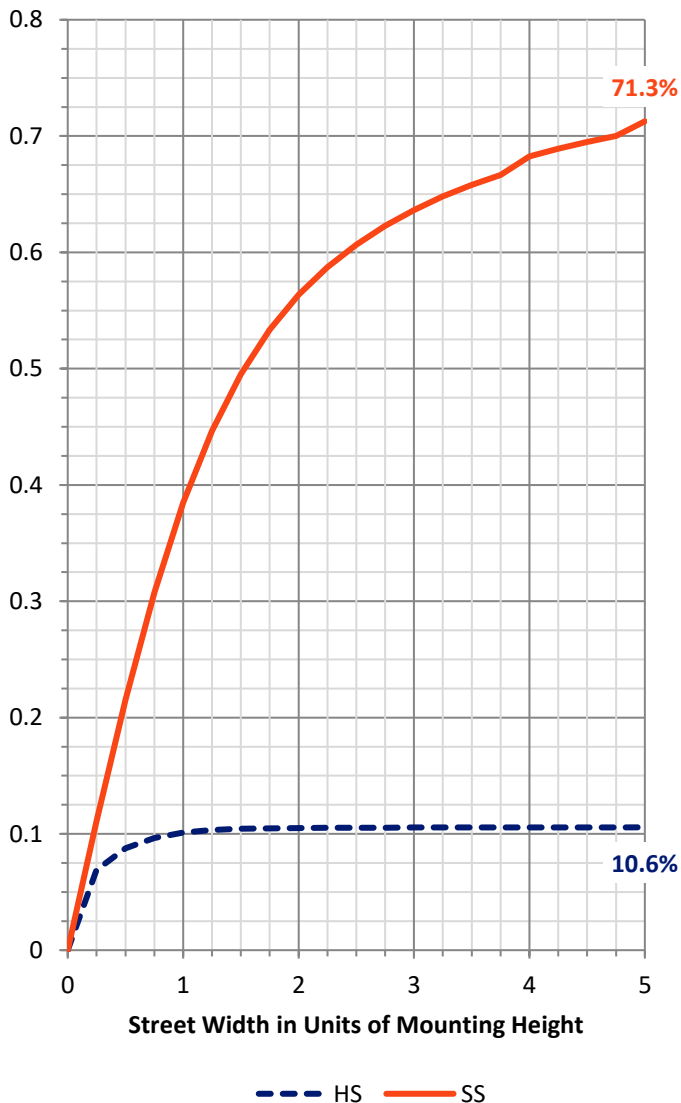
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1507.0	17.4	1524.3
	% Fixture	10.7	0.1	10.8
Street Side	Lumens	11015.7	1590.7	12606.3
	% Fixture	78.0	11.3	89.2
Total	Lumens	12522.6	1608.0	14130.7
	% Fixture	88.6	11.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.4	2.6
10°-20°	909.5	6.4
20°-30°	1266.9	9.0
30°-40°	1595.7	11.3
40°-50°	1802.9	12.8
50°-60°	1867.3	13.2
60°-70°	1805.4	12.8
70°-80°	1610.4	11.4
80°-90°	1297.3	9.2
90°-100°	858.8	6.1
100°-110°	424.5	3.0
110°-120°	185.4	1.3
120°-130°	75.3	0.5
130°-140°	38.0	0.3
140°-150°	18.8	0.1
150°-160°	5.9	0.0
160°-170°	1.2	0.0
170°-180°	0.2	0.0
0°-90°	12522.6	88.6
0°-180°	14130.7	100.0



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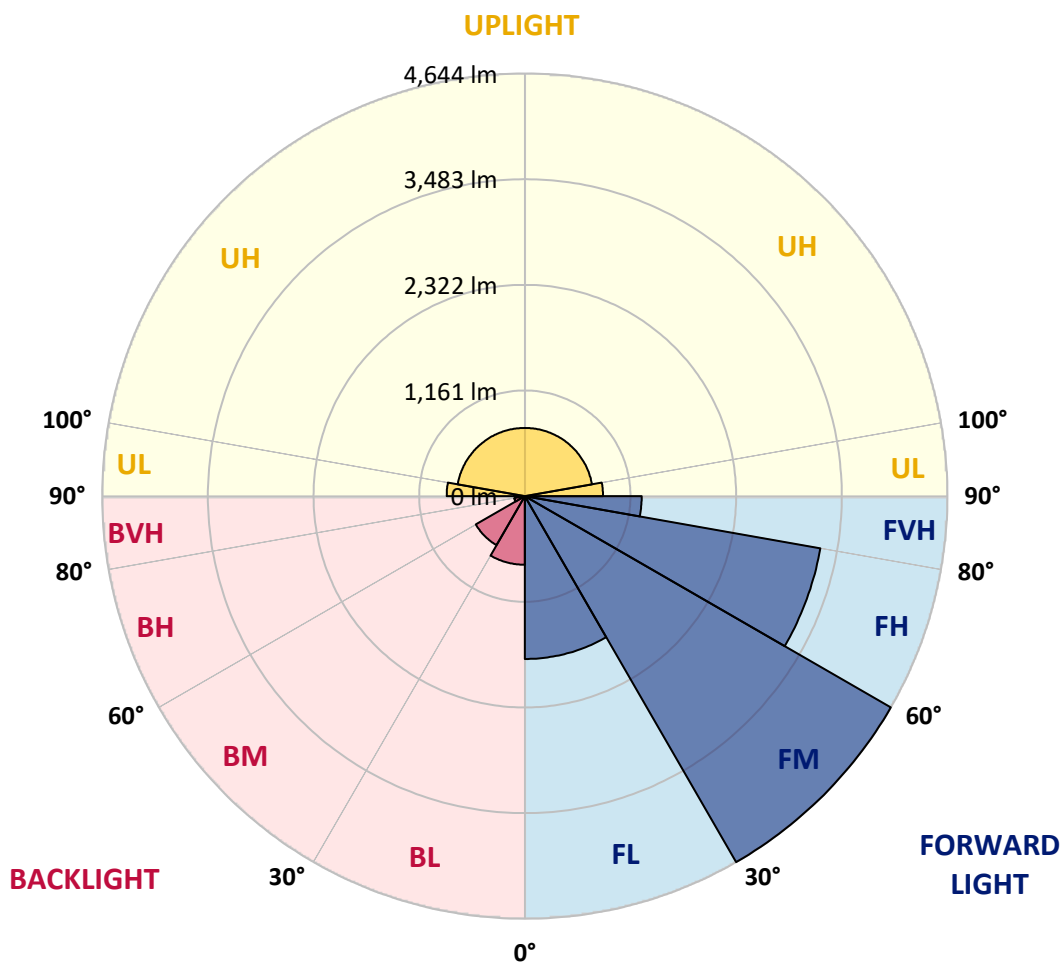
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1789.7	12.7			
FM (30°-60°)	4644.2	32.9			
FH (60°-80°)	3297.7	23.3			G2/5000
FVH (80°-90°)	1284.1	9.1			G5
BL (0°-30°)	754.0	5.3	B2/1000		
BM (30°-60°)	621.8	4.4	B1/1000		
BH (60°-80°)	118.0	0.8	B1/500		G1/500
BVH (80°-90°)	13.2	0.1			G1/100
UL (90°-100°)	858.8	6.1		U4/1000	
UH (100°-180°)	749.2	5.3		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°	4212.4	4212.4	4212.4	4212.4	4212.4	4212.4	4212.4	4212.4	4212.4	4212.4	4212.4
2.5°	4142.0	4141.0	4142.0	4144.9	4150.7	4208.5	4255.8	4276.0	4250.0	4210.5	4208.5
5°	4411.1	4413.0	4389.8	4375.4	4308.8	4235.5	4164.2	4143.9	4252.9	4213.4	4198.9
7.5°	4591.4	4569.2	4555.7	4543.2	4511.4	4431.3	4331.0	4170.0	4152.6	4215.3	4187.3
10°	4398.5	4377.3	4421.7	4499.8	4601.0	4520.0	4465.1	4296.3	4097.6	4207.6	4169.0
12.5°	4259.6	4242.3	4193.1	4131.4	4291.5	4495.9	4504.6	4373.4	4130.4	4170.9	4134.3
15°	4487.2	4467.0	4402.4	4340.7	4178.6	4176.7	4474.7	4410.1	4155.5	4103.4	4078.3
17.5°	4601.0	4588.5	4621.3	4599.1	4380.2	4167.1	4211.4	4368.6	4178.6	4010.8	4000.2
20°	4253.9	4261.6	4315.6	4473.7	4585.6	4324.3	3967.4	4302.1	4128.5	3918.3	3910.5
22.5°	4514.2	4456.4	4220.1	4168.0	4382.1	4492.1	4117.9	4099.6	4078.3	3818.0	3807.4
25°	4598.1	4599.1	4684.9	4590.4	4100.5	4340.7	4214.3	3812.2	4010.8	3710.0	3686.8
27.5°	4529.7	4521.0	4485.3	4530.6	4558.6	4045.6	4251.0	3724.4	3904.8	3601.0	3564.3
30°	4602.0	4572.1	4556.7	4477.6	4411.1	4062.0	4095.7	3796.7	3822.8	3501.6	3432.2
32.5°	5104.4	5087.1	4944.4	4505.6	4330.0	4348.4	3848.8	3899.0	3732.1	3408.1	3299.1
35°	5286.7	5270.3	5128.6	4924.1	4329.1	4126.6	3764.9	3847.9	3563.4	3297.2	3155.4
37.5°	5278.0	5270.3	5196.1	5021.5	4677.2	4056.2	4040.7	3686.8	3364.7	3168.0	2989.6
40°	5140.1	5111.2	5032.1	4960.7	4677.2	4134.3	3804.5	3547.9	3196.9	3034.9	2811.2
42.5°	5482.5	5476.7	5377.4	4894.2	4593.3	4302.1	3706.1	3383.0	3101.4	2877.7	2616.4
45°	5105.4	5145.9	5240.4	5140.1	4544.1	4150.7	3654.0	3429.3	3061.9	2696.4	2401.3
47.5°	5320.5	5315.6	5273.2	4917.4	4736.1	4073.5	3803.5	3278.9	2953.9	2494.8	2187.2
50°	5442.0	5415.0	5148.8	4979.1	4526.8	4102.5	3594.2	3064.8	2734.0	2303.9	1989.5
51°	5667.6	5638.7	5328.2	4874.9	4459.3	4154.5	3513.2	2988.6	2639.5	2228.7	1907.5
52.5°	5442.9	5449.7	5524.9	5027.3	4482.4	4109.2	3432.2	2889.3	2512.2	2114.9	1800.5
55°	5159.4	5141.1	5183.5	5138.2	4549.9	3943.3	3396.5	2852.6	2331.9	1959.6	1627.9
57.5°	5165.2	5146.9	5036.9	4941.5	4715.8	3953.0	3385.9	2724.4	2238.3	1819.8	1473.6
60°	5599.2	5577.0	5381.2	4744.7	4563.4	4083.2	3206.5	2513.2	2093.7	1675.1	1316.4
62.5°	5178.7	5162.3	5199.0	5031.1	4360.9	4028.2	3118.8	2400.3	1913.3	1516.0	1168.8
65°	4855.6	4838.3	4787.2	4675.3	4430.3	3794.8	3090.8	2422.5	1782.2	1365.6	1012.6
67.5°	4904.8	4874.0	4787.2	4503.6	4170.0	3746.6	2932.7	2241.2	1729.1	1222.8	870.8
70°	4836.3	4820.0	4696.5	4413.9	4034.0	3520.9	2765.8	2110.1	1554.6	1097.5	708.8
72.5°	4804.5	4800.7	4714.8	4386.0	4006.0	3414.9	2571.0	2096.6	1406.1	912.3	553.6
75°	4701.3	4693.6	4560.5	4297.3	3899.0	3320.3	2439.9	1877.6	1337.6	745.5	416.6
77.5°	4421.7	4428.4	4352.2	4084.1	3705.1	3138.1	2275.0	1648.1	1172.7	586.3	306.7
80°	4347.4	4335.8	4246.1	3953.0	3592.3	2989.6	2114.9	1474.5	1027.1	430.1	218.9
82.5°	4299.2	4292.4	4174.8	3893.2	3457.3	2850.7	1950.0	1312.5	809.1	311.5	154.3
85°	4050.4	4061.0	3976.1	3674.3	3245.1	2635.6	1781.2	1148.6	647.1	217.0	104.2
87.5°	3717.7	3710.0	3566.3	3312.6	3036.8	2461.1	1609.5	978.8	511.1	149.5	68.5
90°	3689.7	3685.8	3547.0	3193.0	2762.9	2161.2	1394.5	826.5	388.6	101.3	49.2
92.5°	3508.4	3493.0	3304.0	2922.1	2454.3	1845.8	1196.8	687.6	300.9	76.2	43.4
95°	3026.2	3010.8	2880.6	2628.9	2188.2	1595.1	1006.8	560.3	232.4	63.6	42.4
97.5°	2584.5	2553.7	2419.6	2150.6	1852.6	1377.1	828.4	434.9	190.9	59.8	44.4
100°	2156.3	2149.6	2023.3	1791.8	1515.0	1121.6	668.3	346.2	158.2	59.8	46.3
102.5°	1843.9	1819.8	1726.2	1529.5	1259.5	866.0	532.3	283.5	133.1	61.7	48.2
105°	1596.0	1586.4	1510.2	1328.9	1055.0	728.1	430.1	239.2	116.7	63.6	49.2
107.5°	1350.1	1333.7	1254.7	1103.2	874.7	618.2	368.4	200.6	106.1	63.6	49.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	1102.3	1091.7	1023.2	879.5	697.2	501.5	307.6	172.6	100.3	63.6	49.2
112.5°	899.8	891.1	840.0	720.4	567.1	398.3	254.6	150.4	95.5	62.7	48.2
115°	697.2	682.8	644.2	556.4	441.7	326.9	211.2	131.2	90.7	60.8	47.3
117.5°	552.6	545.8	515.9	436.9	347.2	260.4	178.4	115.7	85.8	56.9	44.4
120°	452.3	444.6	413.7	353.0	281.6	212.2	151.4	104.2	81.0	52.1	40.5
122.5°	351.0	343.3	325.0	280.6	230.5	181.3	133.1	93.5	74.3	47.3	35.7
125°	275.8	270.0	254.6	222.8	189.0	157.2	117.7	85.8	66.5	41.5	31.8
127.5°	215.1	212.2	201.6	182.3	162.0	136.0	106.1	79.1	58.8	36.6	28.0
130°	174.6	172.6	166.8	158.2	143.7	122.5	96.4	73.3	52.1	32.8	25.1
132.5°	145.6	144.7	145.6	143.7	131.2	110.9	88.7	69.4	46.3	28.9	22.2
135°	136.0	136.0	139.8	136.9	122.5	100.3	81.0	63.6	40.5	25.1	19.3
137.5°	143.7	142.7	139.8	127.3	109.0	88.7	72.3	55.9	34.7	21.2	17.4
140°	140.8	139.8	131.2	114.8	94.5	78.1	63.6	48.2	28.9	18.3	14.5
142.5°	123.4	122.5	113.8	98.4	81.0	67.5	55.9	40.5	24.1	14.5	11.6
145°	99.3	99.3	91.6	81.0	68.5	57.9	48.2	31.8	18.3	11.6	8.7
147.5°	78.1	77.2	73.3	66.5	56.9	50.1	39.5	26.0	14.5	9.6	7.7
150°	63.6	62.7	58.8	54.0	48.2	42.4	30.9	19.3	10.6	7.7	6.8
152.5°	51.1	50.1	48.2	44.4	40.5	32.8	23.1	13.5	8.7	6.8	5.8
155°	40.5	40.5	38.6	35.7	31.8	25.1	16.4	9.6	6.8	5.8	4.8
157.5°	31.8	31.8	29.9	27.0	23.1	17.4	11.6	7.7	5.8	4.8	4.8
160°	24.1	24.1	22.2	20.3	15.4	11.6	7.7	6.8	5.8	4.8	3.9
162.5°	17.4	16.4	15.4	13.5	9.6	8.7	6.8	5.8	4.8	3.9	3.9
165°	11.6	10.6	9.6	7.7	6.8	6.8	5.8	4.8	4.8	3.9	3.9
167.5°	6.8	5.8	5.8	5.8	5.8	4.8	4.8	4.8	4.8	3.9	3.9
170°	2.9	2.9	2.9	3.9	4.8	4.8	4.8	4.8	4.8	3.9	3.9
172.5°	1.0	1.0	1.9	2.9	3.9	4.8	4.8	4.8	4.8	3.9	3.9
175°	0.0	1.0	1.9	2.9	3.9	4.8	4.8	4.8	4.8	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°	4212.4	4212.4	4212.4	4212.4	4212.4	4212.4	4212.4	4212.4	4212.4	4212.4
2.5°	4221.1	4246.1	4229.8	4164.2	4063.9	3991.6	3903.8	3852.7	3845.9	3847.9
5°	4226.9	4176.7	3940.4	3733.1	3565.3	3339.6	3229.7	3132.3	3114.9	3118.8
7.5°	4226.9	3984.8	3650.2	3247.1	2990.5	2785.1	2684.8	2623.1	2600.0	2581.6
10°	4196.0	3761.1	3277.9	2863.2	2632.7	2483.3	2325.1	2200.7	2114.9	2122.6
12.5°	4112.1	3555.7	2945.2	2597.1	2347.3	2029.0	1728.2	1531.4	1444.6	1435.0
15°	3975.2	3291.4	2686.8	2361.8	1896.0	1467.8	1249.8	1122.5	1079.1	1071.4
17.5°	3818.0	3059.0	2491.0	1984.7	1424.4	1131.2	955.7	848.7	797.5	791.8
20°	3649.2	2790.9	2255.7	1578.7	1117.7	874.7	752.2	685.7	659.6	661.6
22.5°	3485.3	2577.8	1954.8	1253.7	886.3	719.4	641.3	609.5	590.2	583.4
25°	3318.4	2389.7	1657.8	1000.1	733.9	625.9	569.0	540.1	518.8	514.0
27.5°	3143.9	2216.1	1370.4	825.5	642.3	557.4	514.0	481.2	461.9	457.1
30°	2963.5	2027.1	1136.0	708.8	568.0	502.4	462.9	435.9	424.3	424.3
32.5°	2799.6	1818.8	942.2	621.1	510.2	458.1	424.3	406.0	396.4	394.4
35°	2620.2	1600.9	798.5	557.4	466.8	417.6	389.6	369.4	353.0	353.0
37.5°	2436.0	1393.5	688.6	501.5	427.2	382.9	353.0	331.7	320.2	319.2
40°	2244.1	1195.8	608.5	453.3	388.6	349.1	319.2	295.1	280.6	279.7
42.5°	2040.6	1026.1	540.1	408.9	353.9	314.4	279.7	248.8	233.4	230.5
45°	1838.1	878.5	483.2	369.4	317.3	273.9	232.4	202.5	187.1	186.1
47.5°	1641.4	751.2	433.0	332.7	280.6	232.4	189.0	159.1	144.7	142.7
50°	1459.1	641.3	387.7	301.8	244.0	191.9	149.5	123.4	113.8	112.8
51°	1395.5	605.6	370.3	290.3	230.5	175.5	134.0	110.9	101.3	100.3
52.5°	1306.7	558.4	347.2	272.9	208.3	155.3	115.7	94.5	83.9	82.9
55°	1157.3	486.0	315.4	242.1	173.6	122.5	87.8	69.4	57.9	56.9
57.5°	1015.5	430.1	288.3	211.2	141.8	93.5	61.7	45.3	37.6	36.6
60°	869.9	381.9	264.2	181.3	113.8	67.5	38.6	25.1	19.3	18.3
62.5°	732.9	337.5	238.2	153.3	86.8	45.3	19.3	6.8	6.8	6.8
65°	610.4	298.0	211.2	126.3	62.7	26.0	3.9	0.0	0.0	0.0
67.5°	500.5	265.2	183.2	102.2	42.4	7.7	0.0	0.0	0.0	0.0
70°	405.0	231.5	157.2	80.0	24.1	0.0	0.0	0.0	0.0	0.0
72.5°	324.0	196.7	132.1	59.8	10.6	0.0	0.0	0.0	0.0	0.0
75°	252.7	165.9	108.0	42.4	1.9	0.0	0.0	0.0	0.0	0.0
77.5°	195.8	136.9	86.8	28.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	149.5	111.9	66.5	18.3	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	110.9	88.7	51.1	11.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	80.0	69.4	39.5	7.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	58.8	55.9	30.9	5.8	0.0	0.0	0.0	0.0	0.0	0.0
90°	47.3	45.3	24.1	3.9	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	41.5	37.6	20.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0
95°	39.5	32.8	15.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	38.6	28.9	13.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0
100°	38.6	26.0	11.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	38.6	23.1	9.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	38.6	21.2	9.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	38.6	20.3	7.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P979147
 CATALOG NUMBER: WPMLD26S-90W-6500K

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	38.6	19.3	6.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	37.6	18.3	5.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	36.6	16.4	4.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	33.8	14.5	4.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	29.9	12.5	3.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	27.0	11.6	3.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	24.1	9.6	3.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	21.2	8.7	2.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	18.3	7.7	2.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	16.4	7.7	2.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	14.5	6.8	2.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	12.5	5.8	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	10.6	4.8	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°	7.7	3.9	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	6.8	3.9	1.0	1.0	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°	4.8	2.9	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	3.9	2.9	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	1.0	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

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

Report Prepared for

Cooper Lighting Solutions

Lumark

Report Number: SP1-2407-168-5

Test Date: 08/08/2024

Luminaire Tested: LSDL-92S-100W 6500k

Data in this report applies to families of products including LSDL-92S-100W 6500k.

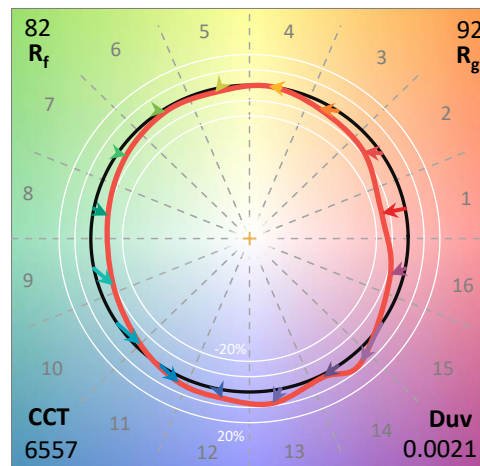
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-168-5
 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 6500k**
 Description: Lumark Wallpack 100W

Spectral Parameters

CCT (K): 6557
 CIE u': 0.1985
 CIE v': 0.4668
 Duv: 0.0021
 CIE x: 0.3121
 CIE y: 0.3263
 CIE z: 0.3616
 Peak Wavelength (nm): 453
 Dominant Wavelength (nm): 487
 Purity: 7.689333
 Rf: 81.6
 Rg: 92.3

CRI (Ra):	82.1		
R1:	80.1	R9:	-3.7
R2:	89.1	R10:	72.9
R3:	92.6	R11:	78.9
R4:	79.9	R12:	57.0
R5:	80.7	R13:	83.1
R6:	82.7	R14:	96.5
R7:	86.0	R15:	74.6
R8:	65.5		



Test Conditions

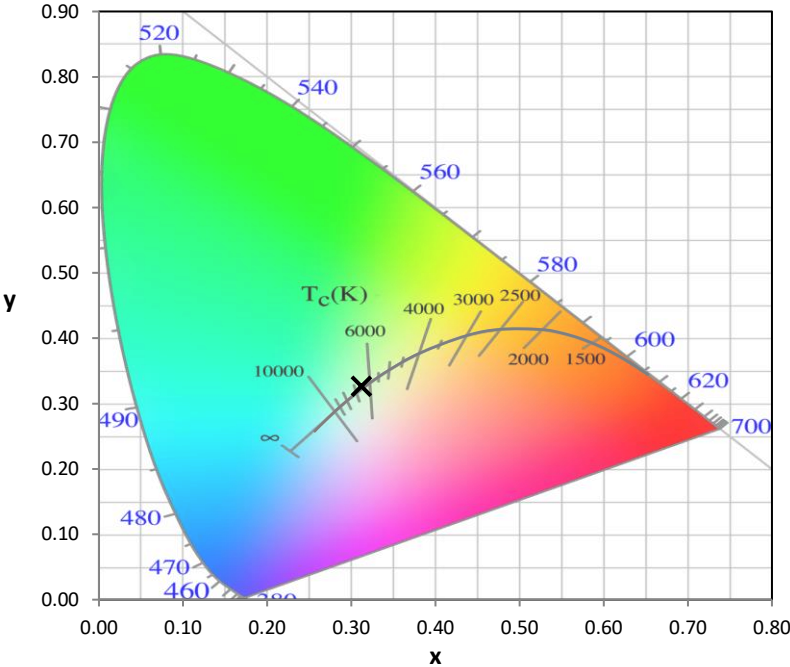
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2407-168-5

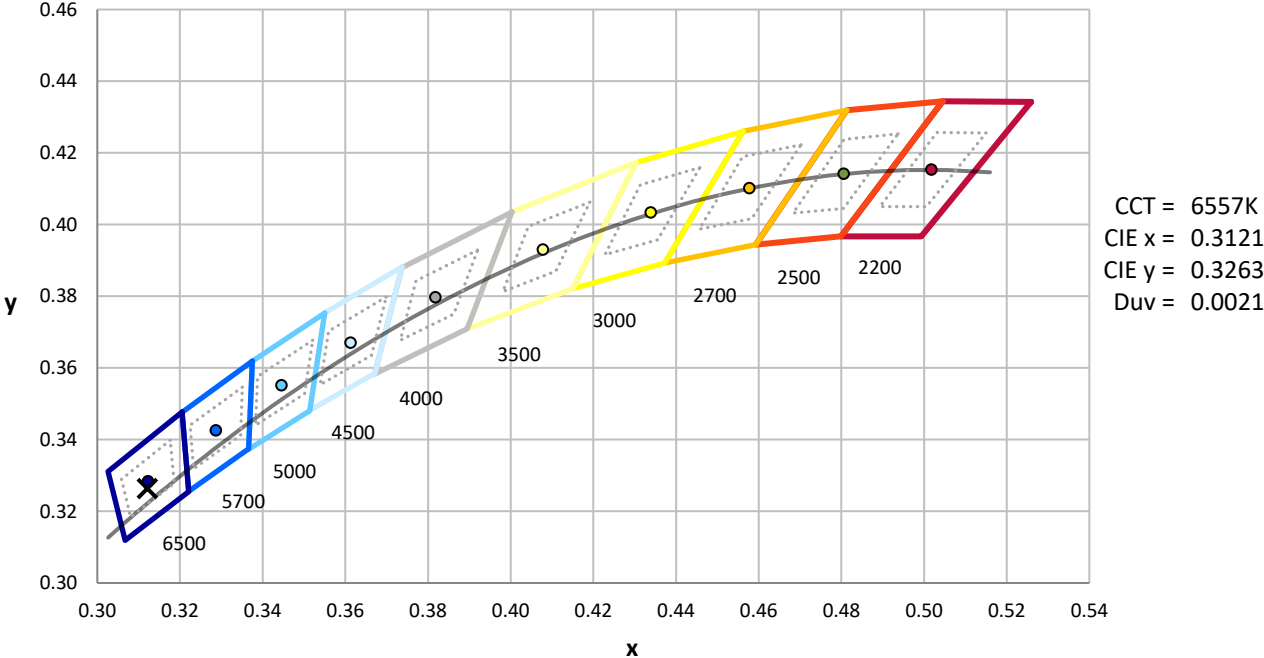
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



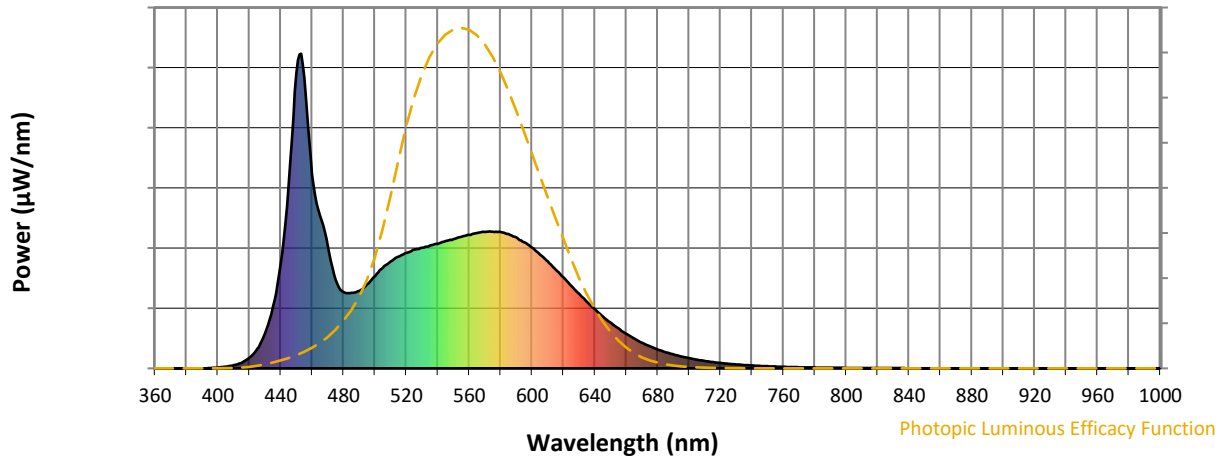
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 6500K 4-step quadrangle

REPORT NUMBER: SP1-2407-168-5

Photopic Flux vs. Wavelength

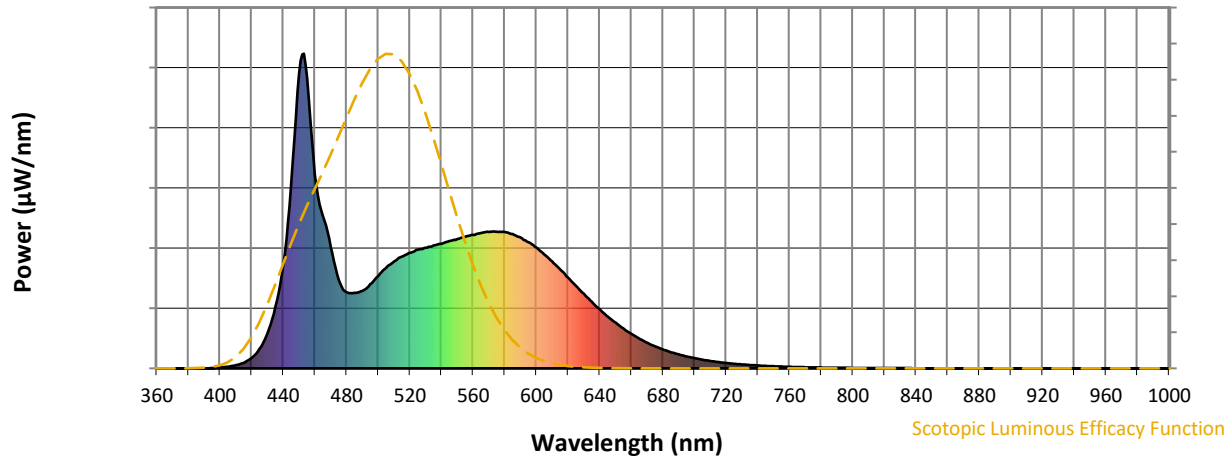


Photopic Lumens: NR

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	246	NR	620	288	NR	750	7	NR	880	0	NR
365	0	NR	495	267	NR	625	262	NR	755	6	NR	885	0	NR
370	0	NR	500	293	NR	630	237	NR	760	5	NR	890	0	NR
375	0	NR	505	319	NR	635	211	NR	765	4	NR	895	0	NR
380	0	NR	510	339	NR	640	188	NR	770	4	NR	900	0	NR
385	0	NR	515	355	NR	645	165	NR	775	3	NR	905	0	NR
390	0	NR	520	367	NR	650	145	NR	780	3	NR	910	0	NR
395	1	NR	525	377	NR	655	127	NR	785	2	NR	915	0	NR
400	3	NR	530	384	NR	660	110	NR	790	2	NR	920	0	NR
405	5	NR	535	391	NR	665	95	NR	795	2	NR	925	0	NR
410	10	NR	540	396	NR	670	81	NR	800	1	NR	930	0	NR
415	18	NR	545	405	NR	675	70	NR	805	1	NR	935	0	NR
420	33	NR	550	411	NR	680	60	NR	810	1	NR	940	0	NR
425	62	NR	555	418	NR	685	51	NR	815	1	NR	945	0	NR
430	111	NR	560	425	NR	690	44	NR	820	1	NR	950	0	NR
435	196	NR	565	430	NR	695	38	NR	825	1	NR	955	0	NR
440	331	NR	570	434	NR	700	32	NR	830	1	NR	960	0	NR
445	583	NR	575	434	NR	705	28	NR	835	1	NR	965	0	NR
450	937	NR	580	433	NR	710	23	NR	840	1	NR	970	0	NR
455	923	NR	585	427	NR	715	20	NR	845	0	NR	975	0	NR
460	616	NR	590	416	NR	720	17	NR	850	0	NR	980	0	NR
465	485	NR	595	401	NR	725	15	NR	855	0	NR	985	0	NR
470	386	NR	600	384	NR	730	13	NR	860	0	NR	990	0	NR
475	280	NR	605	362	NR	735	11	NR	865	0	NR	995	0	NR
480	242	NR	610	339	NR	740	9	NR	870	0	NR	1000	0	NR
485	240	NR	615	314	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2407-168-5

Scotopic Flux vs. Wavelength



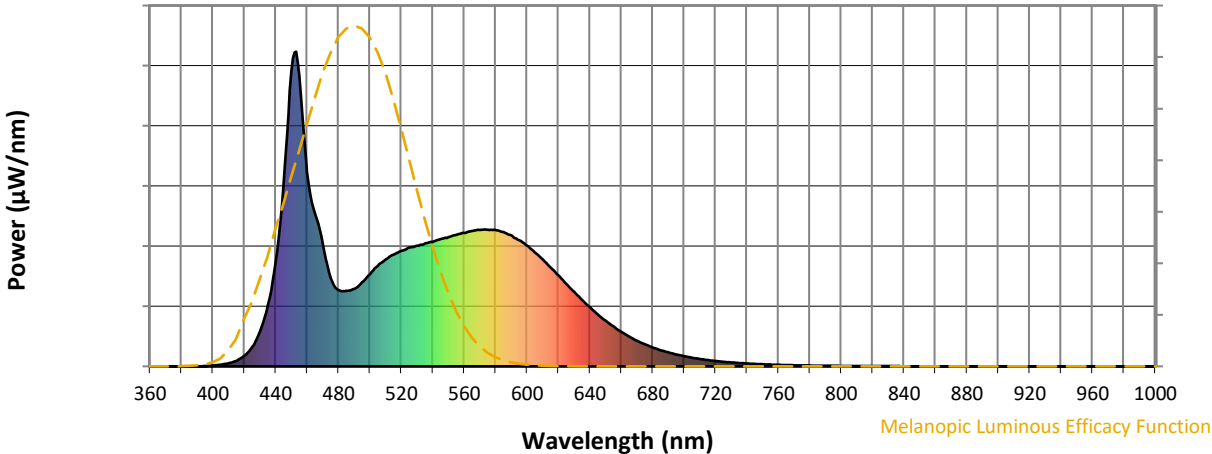
Scotopic Lumens: NR

S/P: 2.27

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	246	NR	620	288	NR	750	7	NR	880	0	NR
365	0	NR	495	267	NR	625	262	NR	755	6	NR	885	0	NR
370	0	NR	500	293	NR	630	237	NR	760	5	NR	890	0	NR
375	0	NR	505	319	NR	635	211	NR	765	4	NR	895	0	NR
380	0	NR	510	339	NR	640	188	NR	770	4	NR	900	0	NR
385	0	NR	515	355	NR	645	165	NR	775	3	NR	905	0	NR
390	0	NR	520	367	NR	650	145	NR	780	3	NR	910	0	NR
395	1	NR	525	377	NR	655	127	NR	785	2	NR	915	0	NR
400	3	NR	530	384	NR	660	110	NR	790	2	NR	920	0	NR
405	5	NR	535	391	NR	665	95	NR	795	2	NR	925	0	NR
410	10	NR	540	396	NR	670	81	NR	800	1	NR	930	0	NR
415	18	NR	545	405	NR	675	70	NR	805	1	NR	935	0	NR
420	33	NR	550	411	NR	680	60	NR	810	1	NR	940	0	NR
425	62	NR	555	418	NR	685	51	NR	815	1	NR	945	0	NR
430	111	NR	560	425	NR	690	44	NR	820	1	NR	950	0	NR
435	196	NR	565	430	NR	695	38	NR	825	1	NR	955	0	NR
440	331	NR	570	434	NR	700	32	NR	830	1	NR	960	0	NR
445	583	NR	575	434	NR	705	28	NR	835	1	NR	965	0	NR
450	937	NR	580	433	NR	710	23	NR	840	1	NR	970	0	NR
455	923	NR	585	427	NR	715	20	NR	845	0	NR	975	0	NR
460	616	NR	590	416	NR	720	17	NR	850	0	NR	980	0	NR
465	485	NR	595	401	NR	725	15	NR	855	0	NR	985	0	NR
470	386	NR	600	384	NR	730	13	NR	860	0	NR	990	0	NR
475	280	NR	605	362	NR	735	11	NR	865	0	NR	995	0	NR
480	242	NR	610	339	NR	740	9	NR	870	0	NR	1000	0	NR
485	240	NR	615	314	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2407-168-5

Melanopic Flux vs. Wavelength



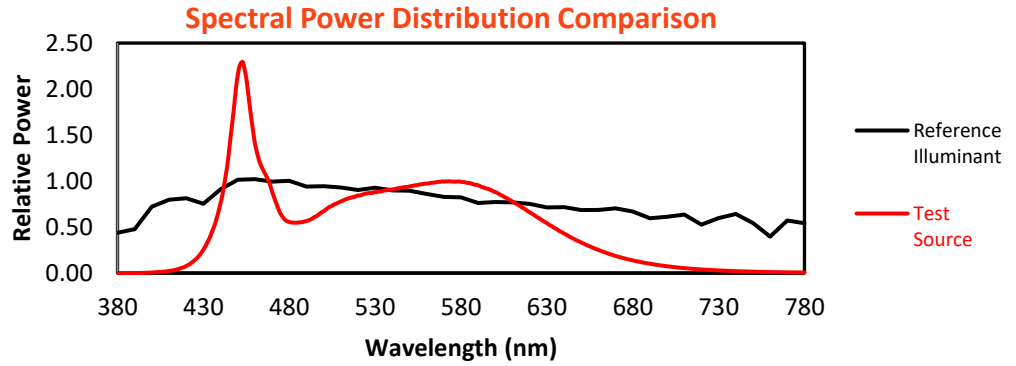
Melanopic Lumens: NR

M/P: 5.06

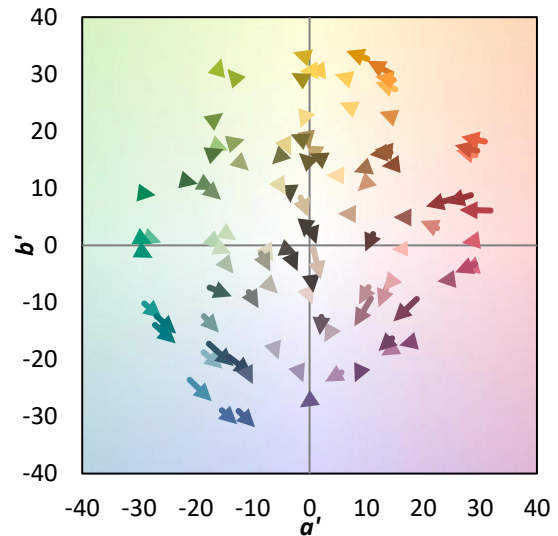
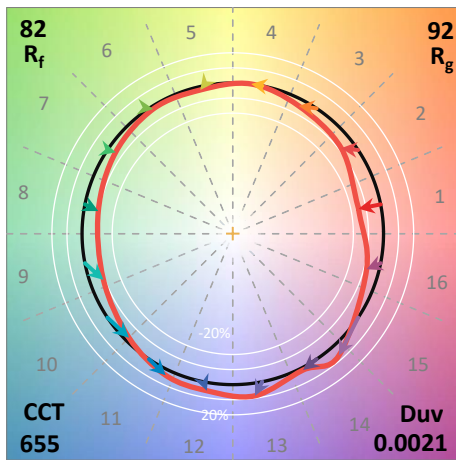
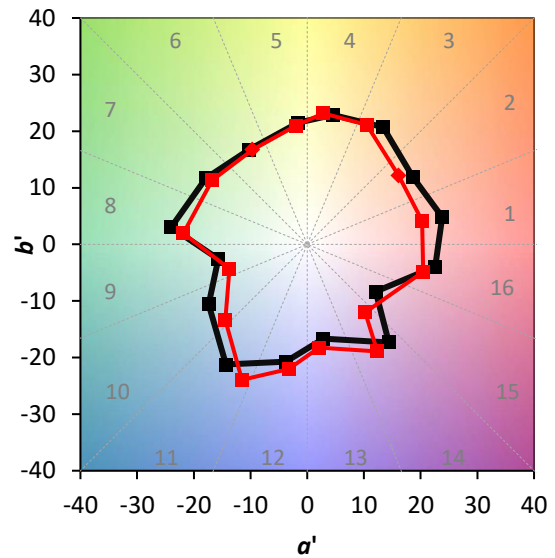
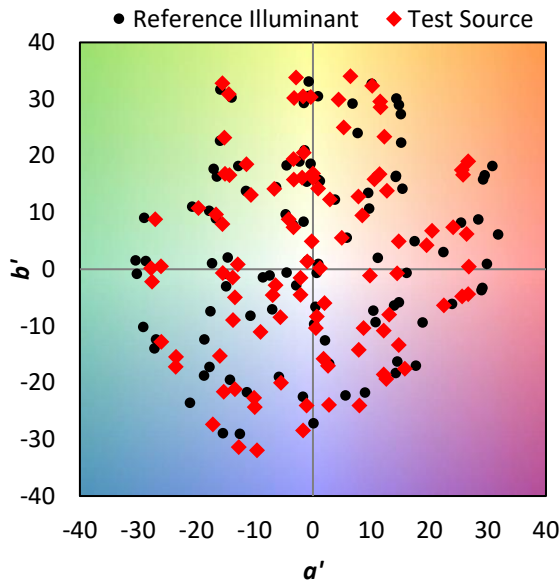
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	246	NR	620	288	NR	750	7	NR	880	0	NR
365	0	NR	495	267	NR	625	262	NR	755	6	NR	885	0	NR
370	0	NR	500	293	NR	630	237	NR	760	5	NR	890	0	NR
375	0	NR	505	319	NR	635	211	NR	765	4	NR	895	0	NR
380	0	NR	510	339	NR	640	188	NR	770	4	NR	900	0	NR
385	0	NR	515	355	NR	645	165	NR	775	3	NR	905	0	NR
390	0	NR	520	367	NR	650	145	NR	780	3	NR	910	0	NR
395	1	NR	525	377	NR	655	127	NR	785	2	NR	915	0	NR
400	3	NR	530	384	NR	660	110	NR	790	2	NR	920	0	NR
405	5	NR	535	391	NR	665	95	NR	795	2	NR	925	0	NR
410	10	NR	540	396	NR	670	81	NR	800	1	NR	930	0	NR
415	18	NR	545	405	NR	675	70	NR	805	1	NR	935	0	NR
420	33	NR	550	411	NR	680	60	NR	810	1	NR	940	0	NR
425	62	NR	555	418	NR	685	51	NR	815	1	NR	945	0	NR
430	111	NR	560	425	NR	690	44	NR	820	1	NR	950	0	NR
435	196	NR	565	430	NR	695	38	NR	825	1	NR	955	0	NR
440	331	NR	570	434	NR	700	32	NR	830	1	NR	960	0	NR
445	583	NR	575	434	NR	705	28	NR	835	1	NR	965	0	NR
450	937	NR	580	433	NR	710	23	NR	840	1	NR	970	0	NR
455	923	NR	585	427	NR	715	20	NR	845	0	NR	975	0	NR
460	616	NR	590	416	NR	720	17	NR	850	0	NR	980	0	NR
465	485	NR	595	401	NR	725	15	NR	855	0	NR	985	0	NR
470	386	NR	600	384	NR	730	13	NR	860	0	NR	990	0	NR
475	280	NR	605	362	NR	735	11	NR	865	0	NR	995	0	NR
480	242	NR	610	339	NR	740	9	NR	870	0	NR	1000	0	NR
485	240	NR	615	314	NR	745	8	NR	875	0	NR			

Summary

$R_f = 81.6$
 $R_g = 92.3$
 $CIE R_a = 82.1$
 $R_9 = -3.7$

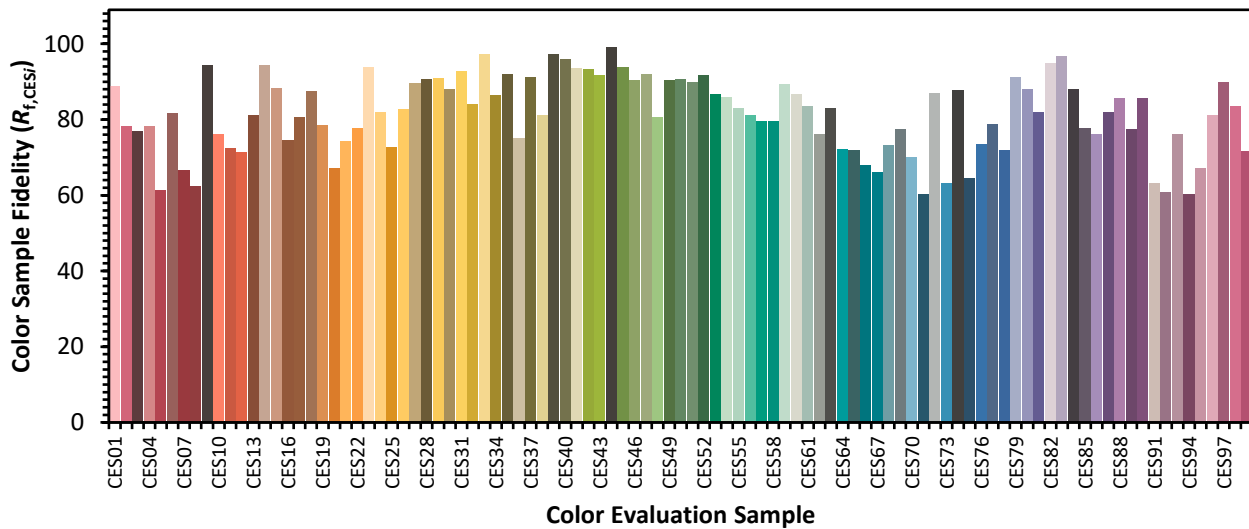


Color Vector Graphics

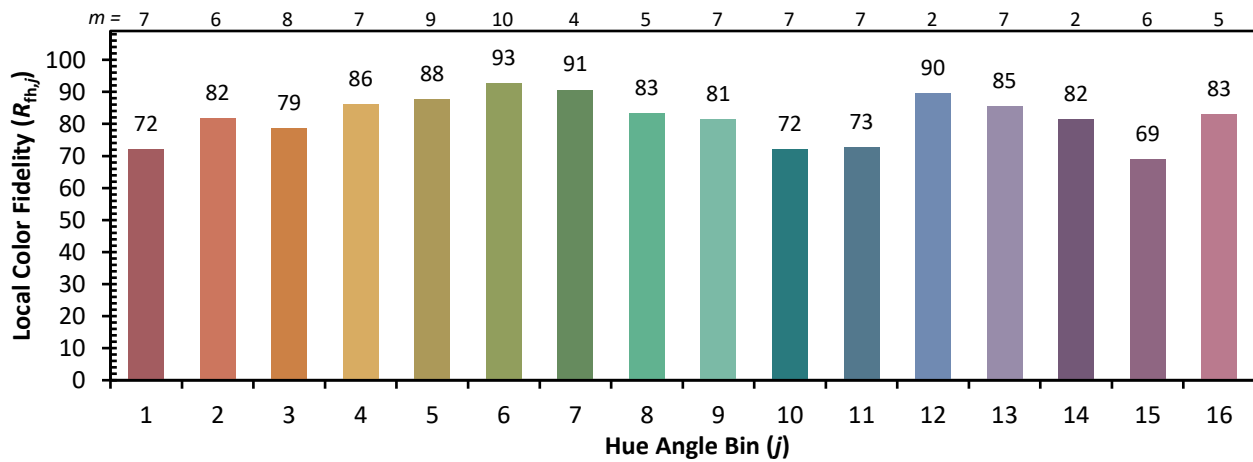
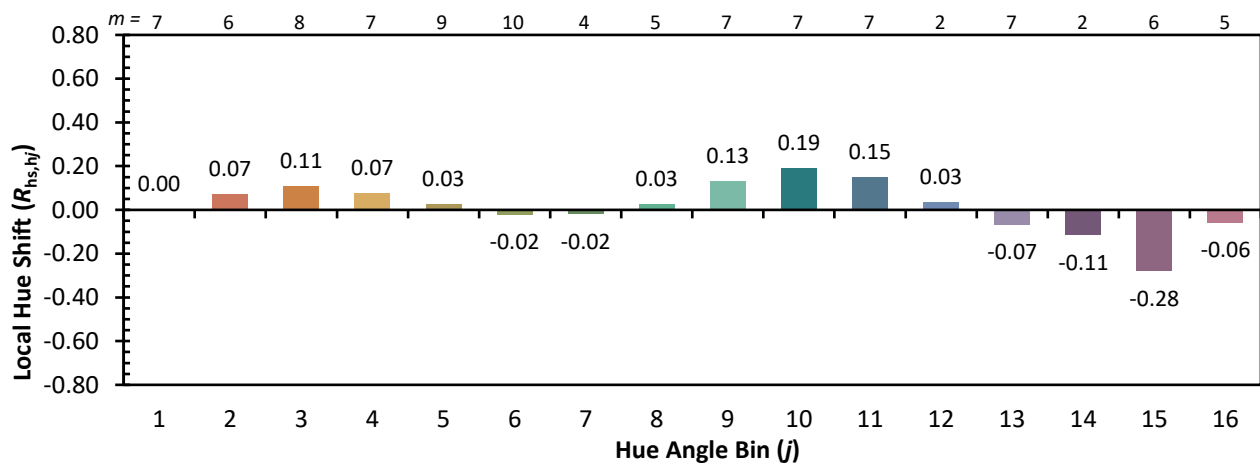
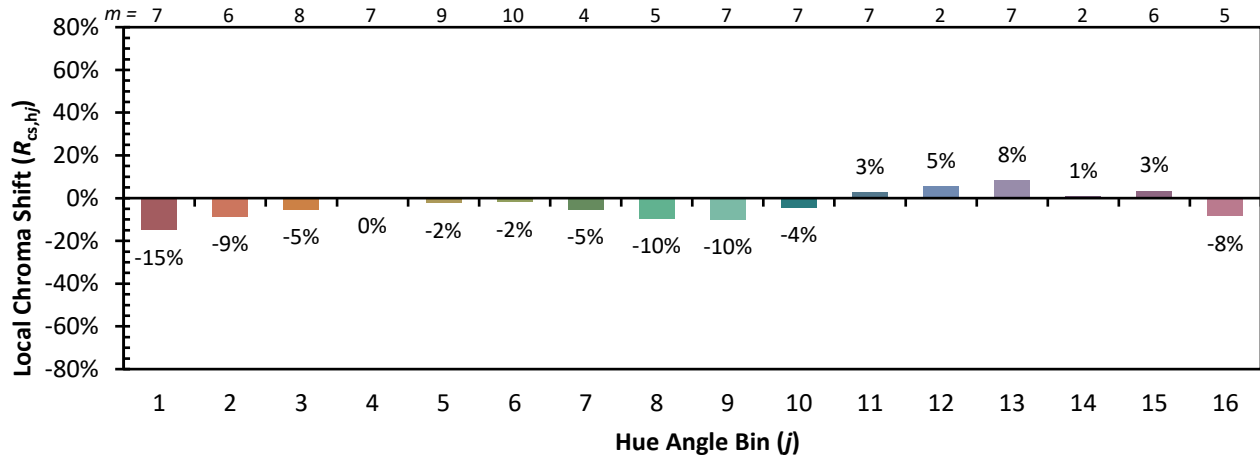


Individual Sample Fidelity Index ($R_{f,i}$)

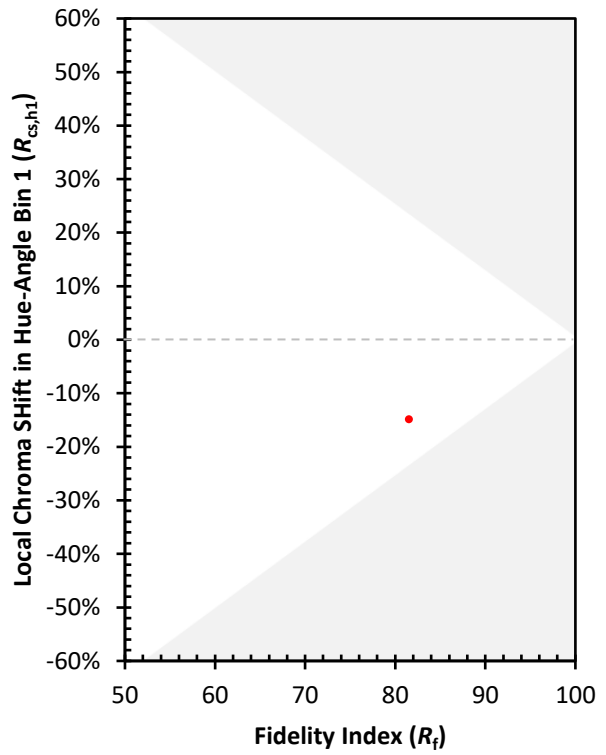
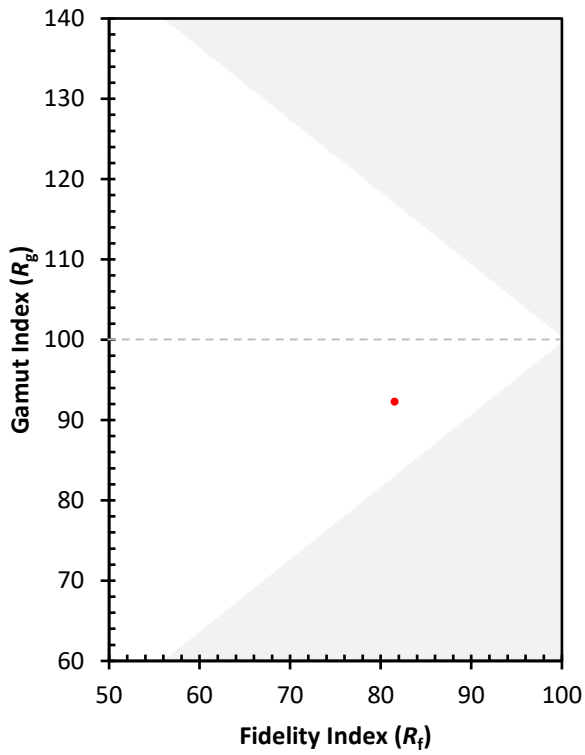
CES01 = 85	CES26 = 83	CES51 = 90	CES76 = 74
CES02 = 59	CES27 = 90	CES52 = 92	CES77 = 79
CES03 = 30	CES28 = 91	CES53 = 87	CES78 = 72
CES04 = 68	CES29 = 91	CES54 = 86	CES79 = 91
CES05 = 45	CES30 = 88	CES55 = 83	CES80 = 88
CES06 = 49	CES31 = 93	CES56 = 81	CES81 = 82
CES07 = 38	CES32 = 84	CES57 = 80	CES82 = 95
CES08 = 38	CES33 = 97	CES58 = 80	CES83 = 97
CES09 = 29	CES34 = 86	CES59 = 89	CES84 = 88
CES10 = 72	CES35 = 92	CES60 = 87	CES85 = 78
CES11 = 55	CES36 = 75	CES61 = 83	CES86 = 76
CES12 = 60	CES37 = 91	CES62 = 76	CES87 = 82
CES13 = 41	CES38 = 81	CES63 = 83	CES88 = 86
CES14 = 74	CES39 = 97	CES64 = 72	CES89 = 77
CES15 = 70	CES40 = 96	CES65 = 72	CES90 = 86
CES16 = 45	CES41 = 93	CES66 = 68	CES91 = 63
CES17 = 48	CES42 = 93	CES67 = 66	CES92 = 61
CES18 = 55	CES43 = 92	CES68 = 73	CES93 = 76
CES19 = 70	CES44 = 99	CES69 = 77	CES94 = 60
CES20 = 63	CES45 = 94	CES70 = 70	CES95 = 67
CES21 = 84	CES46 = 90	CES71 = 60	CES96 = 81
CES22 = 76	CES47 = 92	CES72 = 87	CES97 = 90
CES23 = 91	CES48 = 81	CES73 = 63	CES98 = 83
CES24 = 90	CES49 = 90	CES74 = 88	CES99 = 72
CES25 = 70	CES50 = 91	CES75 = 65	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)