

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: P979140

Luminaire Tested: **WPMLED26S-100W-4000K**

Issue Date: 03/31/2025



Test Information

Test Method: LM-79-08
Report Number: P979140
Test Lab: Cooper Lighting Solutions
Issue Date: 03/31/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: WPMLD26S-100W-4000K
Description: LUMARK WALL PACK LED MEDIUM 80CRI CCT AND LUMEN SELECTIVE FIXTURE
OPERATING @100W-4000K
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

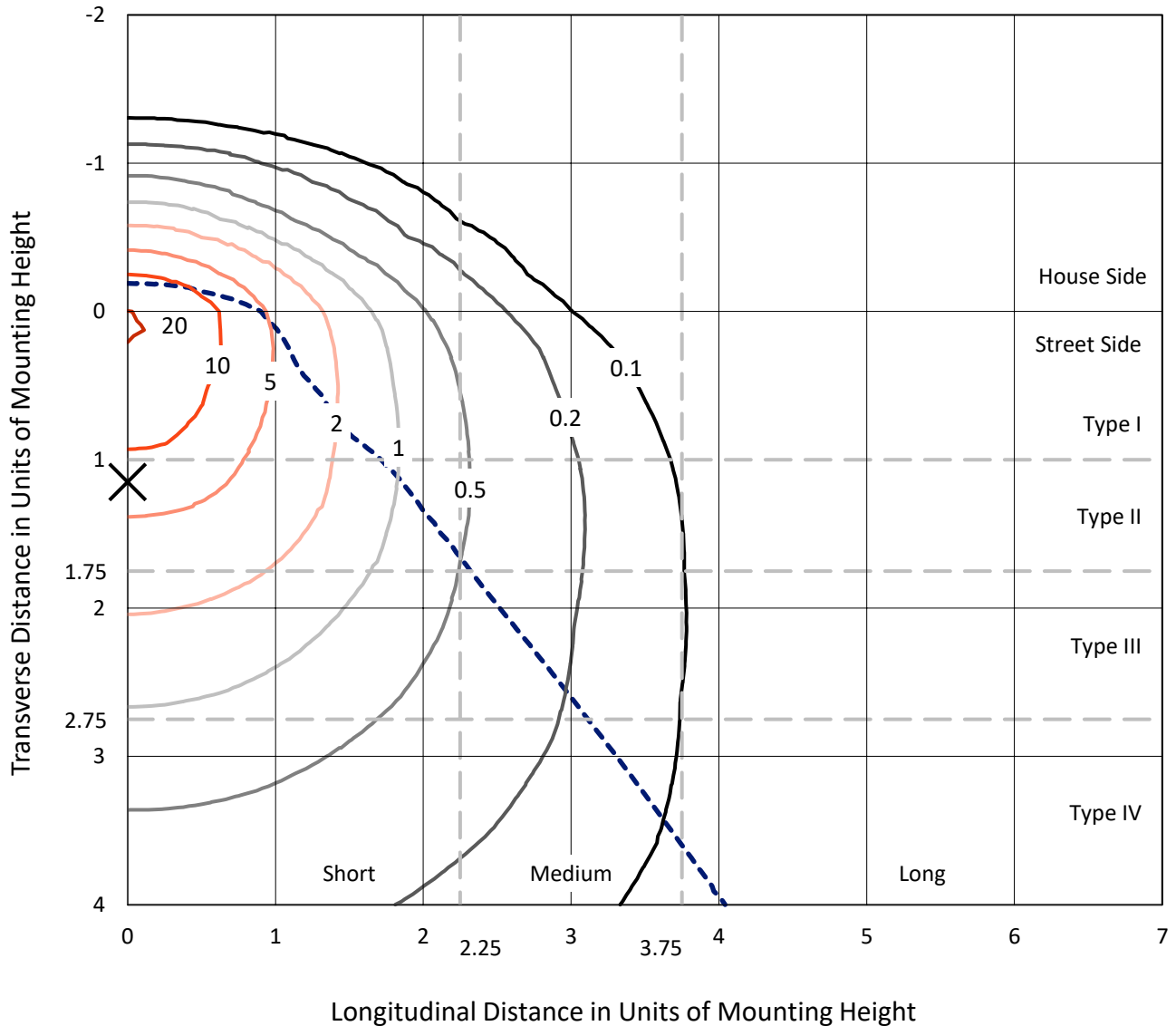
Lumens per Lamp: N/A
Luminaire Lumens: 14911.2 lumens
Efficiency: N/A
Efficacy: 153.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.86' x L: 0.17' x H: 0.58')
IES Classification: Type IV - Short
BUG Rating: B3 - U4 - G5

Input Watts (W): 97.1
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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 CATALOG NUMBER: WPMLED26S-100W-4000K

Iso-Footcandle Lines of Horizontal Illumination

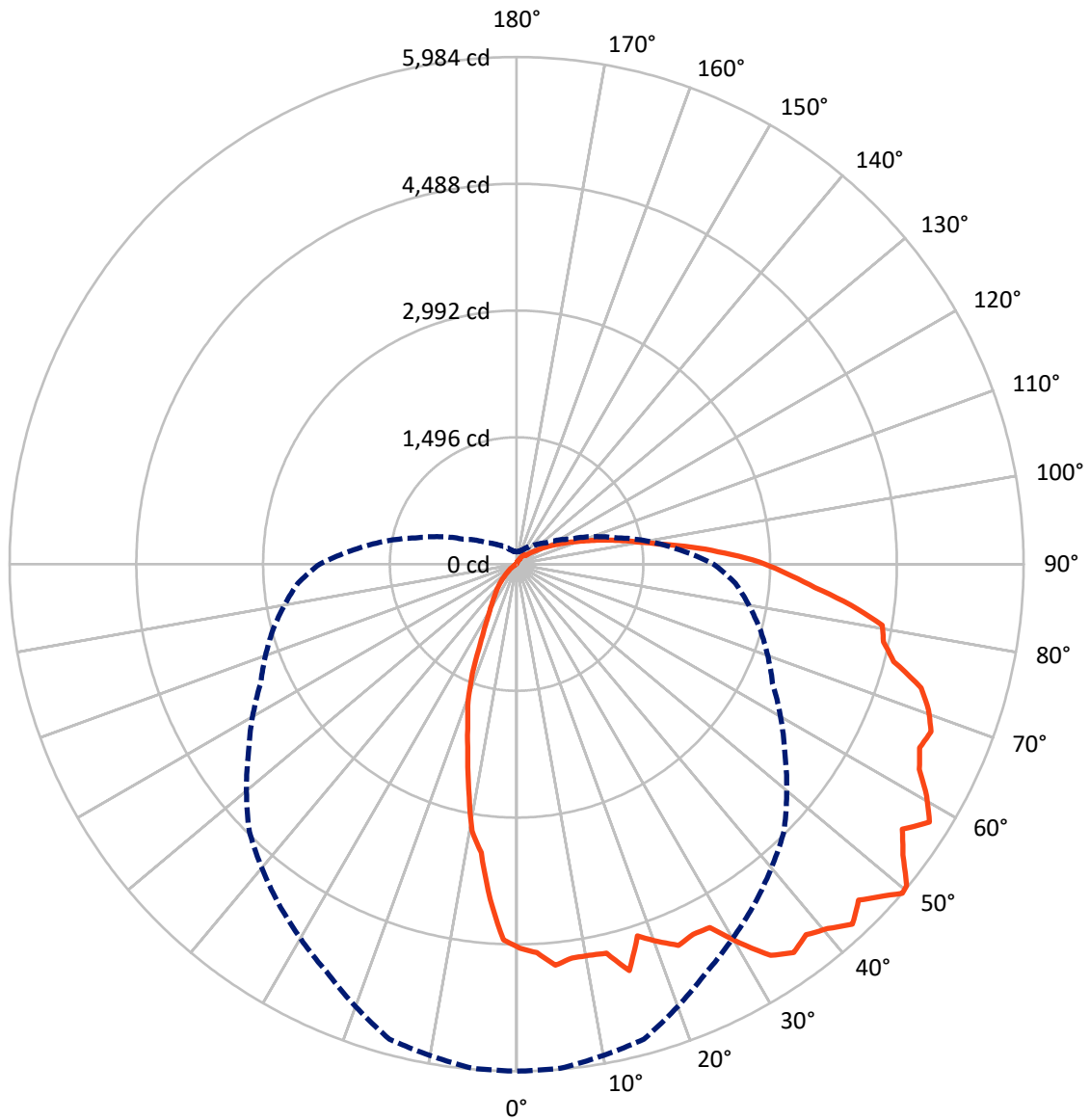
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 20.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 49-Deg Vertical

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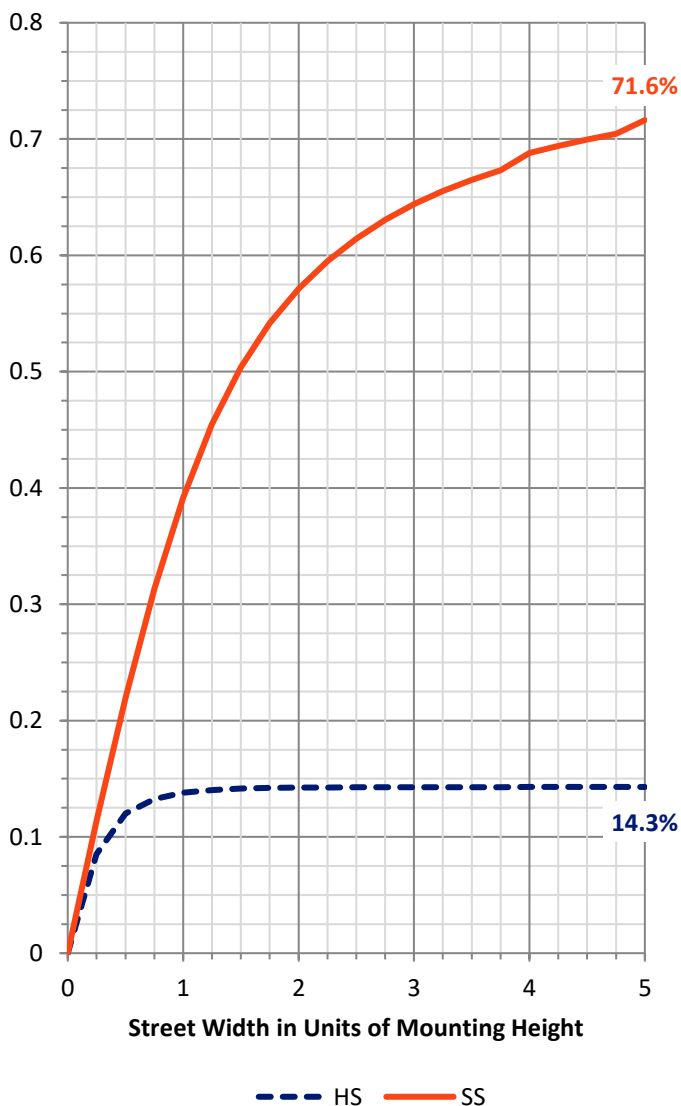
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2155.9	20.5	2176.4
	% Fixture	14.5	0.1	14.6
Street Side	Lumens	11511.6	1223.3	12734.8
	% Fixture	77.2	8.2	85.4
Total	Lumens	13667.4	1243.8	14911.2
	% Fixture	91.7	8.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.7	2.8
10°-20°	1092.8	7.3
20°-30°	1519.4	10.2
30°-40°	1824.2	12.2
40°-50°	2012.7	13.5
50°-60°	2040.2	13.7
60°-70°	1921.4	12.9
70°-80°	1657.8	11.1
80°-90°	1183.3	7.9
90°-100°	642.7	4.3
100°-110°	310.4	2.1
110°-120°	152.4	1.0
120°-130°	73.4	0.5
130°-140°	38.5	0.3
140°-150°	19.0	0.1
150°-160°	6.0	0.0
160°-170°	1.2	0.0
170°-180°	0.2	0.0
0°-90°	13667.4	91.7
0°-180°	14911.2	100.0



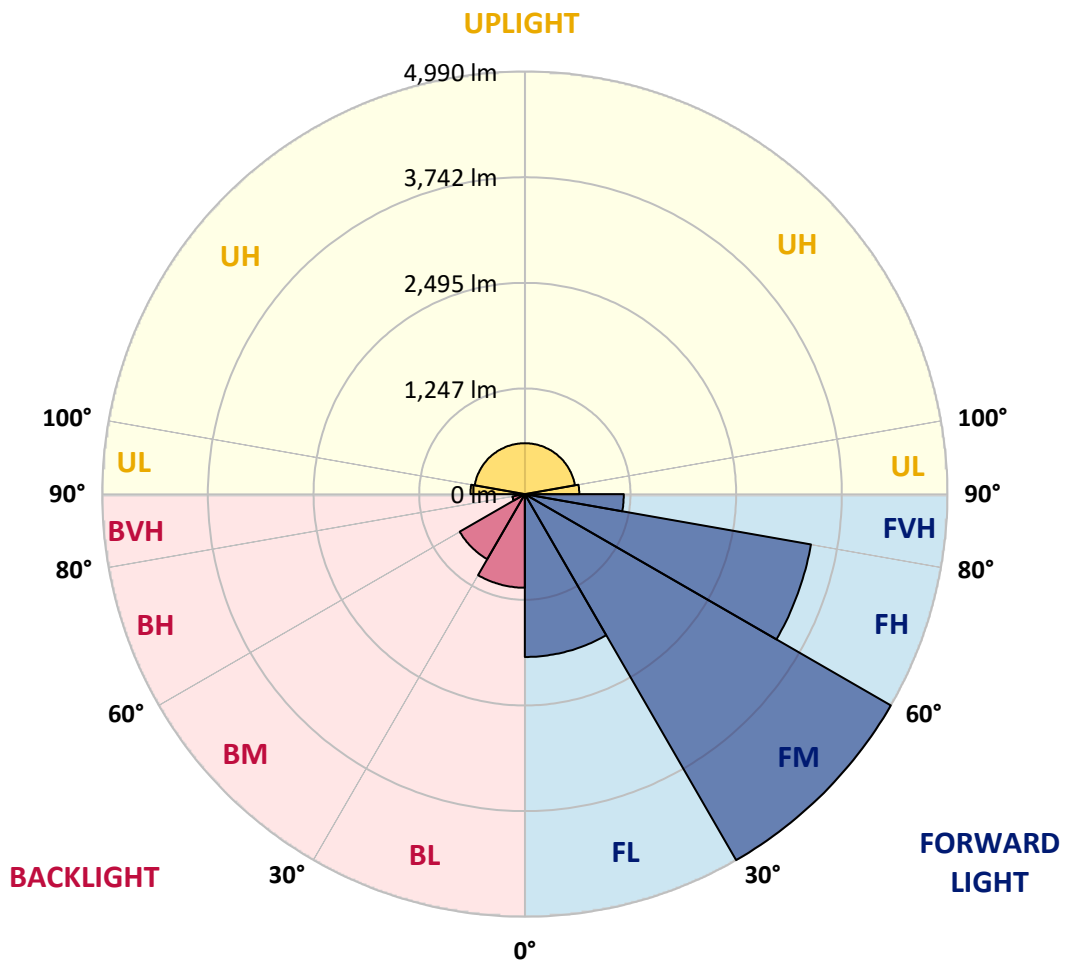
REPORT NUMBER: P979140
 CATALOG NUMBER: WPMLED26S-100W-4000K

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1923.0	12.9			
FM (30°-60°)	4989.9	33.5			
FH (60°-80°)	3430.4	23.0			G2/5000
FVH (80°-90°)	1168.2	7.8			G5
BL (0°-30°)	1104.9	7.4	B3/2500		
BM (30°-60°)	887.2	5.9	B1/1000		
BH (60°-80°)	148.8	1.0	B1/500		G1/500
BVH (80°-90°)	15.1	0.1			G1/100
UL (90°-100°)	642.7	4.3		U4/1000	
UH (100°-180°)	601.0	4.0		U4/1000	

BUG Rating: B3-U4-G5

Type IV Short





REPORT NUMBER: P979140

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4531.9	4531.9	4531.9	4531.9	4531.9	4531.9	4531.9	4531.9	4531.9	4531.9	4531.9
2.5°	4592.0	4590.9	4596.1	4575.4	4579.6	4600.3	4617.9	4601.3	4544.3	4519.5	4539.2
5°	4755.6	4755.6	4754.6	4774.3	4734.9	4667.6	4606.5	4566.1	4598.2	4510.2	4519.5
7.5°	4693.5	4704.9	4725.6	4766.0	4771.1	4748.4	4739.0	4588.9	4553.7	4510.2	4504.0
10°	4694.5	4688.3	4671.7	4640.7	4675.9	4700.7	4738.0	4701.8	4545.4	4510.2	4486.3
12.5°	4713.2	4712.1	4675.9	4653.1	4642.7	4608.6	4675.9	4681.0	4550.6	4476.0	4422.1
15°	4978.3	4966.9	4982.4	4822.9	4670.7	4609.6	4579.6	4650.0	4573.3	4432.5	4376.6
17.5°	4613.7	4629.3	4664.5	4822.9	4902.7	4641.7	4511.2	4534.0	4525.7	4366.2	4297.9
20°	4753.5	4734.9	4626.2	4543.3	4687.3	4822.9	4473.9	4385.9	4412.8	4264.7	4197.4
22.5°	4888.2	4873.7	4829.1	4769.1	4505.0	4641.7	4564.0	4289.6	4316.5	4161.2	4085.6
25°	4839.5	4842.6	4847.8	4849.9	4741.1	4404.5	4609.6	4218.1	4235.7	4043.1	3986.1
27.5°	4857.1	4830.2	4770.1	4774.3	4753.5	4483.2	4374.5	4183.9	4113.5	3916.8	3867.0
30°	5187.5	5173.0	5083.9	4790.8	4643.8	4515.3	4170.5	4237.8	3945.8	3805.9	3740.7
32.5°	5506.4	5505.4	5386.3	5055.9	4617.9	4471.9	4196.4	4181.9	3809.0	3693.1	3614.3
35°	5630.7	5611.0	5431.9	5287.9	4857.1	4359.0	4226.4	4015.1	3693.1	3583.3	3479.7
37.5°	5551.0	5554.1	5437.1	5294.1	4970.0	4442.9	4164.3	3802.8	3608.1	3468.3	3316.1
40°	5654.5	5641.1	5558.2	5257.9	4893.4	4538.1	4004.8	3725.2	3560.5	3315.1	3136.9
42.5°	5812.0	5813.0	5765.4	5372.8	4867.5	4509.1	3972.7	3745.9	3481.8	3139.0	2919.4
45°	5658.7	5640.0	5680.4	5409.1	5014.5	4381.8	4050.3	3655.8	3323.3	2937.0	2699.9
47.5°	5848.2	5825.4	5618.3	5384.2	4952.4	4400.4	3958.2	3441.4	3122.4	2718.5	2474.1
49°	5983.9	5972.5	5803.7	5308.6	4895.4	4462.5	3862.9	3332.7	2974.3	2591.1	2325.0
50°	5964.2	5950.7	5859.6	5435.0	4896.5	4420.1	3797.7	3265.3	2880.1	2506.2	2243.2
52.5°	5708.4	5711.5	5769.5	5529.2	4938.9	4288.5	3712.7	3198.0	2678.1	2302.2	2048.5
55°	5523.0	5525.1	5499.2	5382.2	5006.2	4280.3	3699.3	3047.9	2525.9	2126.1	1868.3
57.5°	5746.7	5735.3	5533.4	5170.9	4937.9	4342.4	3523.2	2844.9	2357.1	1981.2	1700.5
60°	5560.3	5577.9	5582.0	5241.3	4721.4	4308.2	3389.6	2667.8	2196.6	1817.5	1524.4
62.5°	5333.5	5297.2	5185.4	5106.7	4708.0	4146.7	3336.8	2622.2	2051.6	1652.9	1360.8
65°	5227.9	5226.8	5126.4	4838.5	4557.8	4013.1	3223.9	2502.1	1968.7	1490.3	1197.2
67.5°	5275.5	5268.2	5132.6	4808.4	4349.6	3862.9	3036.5	2353.0	1819.6	1346.3	1021.1
70°	5157.4	5147.1	5041.4	4758.7	4298.9	3675.5	2874.9	2261.8	1634.2	1193.0	833.7
72.5°	4993.8	4994.8	4901.6	4601.3	4220.2	3561.5	2671.9	2145.8	1525.5	1004.6	652.4
75°	4598.2	4629.3	4586.8	4347.6	3992.4	3394.8	2492.8	1884.8	1374.3	818.1	496.1
77.5°	4425.2	4413.9	4295.8	4054.5	3752.1	3205.3	2306.3	1662.2	1226.2	631.7	359.4
80°	4376.6	4353.8	4249.2	3906.4	3535.6	2993.0	2114.8	1471.6	1040.8	474.3	253.7
82.5°	3975.8	3945.8	3866.0	3666.1	3246.7	2717.5	1891.1	1289.4	832.6	336.6	171.9
85°	3532.5	3541.9	3447.6	3211.5	2926.7	2394.4	1680.8	1116.4	666.9	236.1	117.0
87.5°	3185.6	3177.3	3078.9	2853.2	2545.6	2127.2	1442.6	938.3	512.6	160.5	76.6
90°	2867.7	2868.7	2754.8	2544.5	2242.1	1784.4	1214.8	760.2	388.4	109.8	55.9
92.5°	2461.7	2437.9	2333.3	2144.8	1901.4	1492.3	992.1	599.6	293.1	81.8	46.6
95°	2078.5	2070.2	1991.5	1831.0	1592.8	1252.1	818.1	482.6	233.0	68.4	46.6
97.5°	1697.4	1677.7	1629.0	1505.8	1319.4	1032.5	686.6	388.4	190.6	64.2	48.7
100°	1435.4	1425.0	1349.4	1229.3	1058.4	840.9	554.1	323.1	159.5	64.2	51.8
102.5°	1238.6	1239.6	1193.0	1070.8	901.0	670.1	449.5	269.3	135.7	67.3	53.9
105°	1054.3	1053.2	1005.6	914.5	767.4	563.4	378.0	226.8	119.1	69.4	54.9
107.5°	894.8	887.5	854.4	768.4	639.0	480.5	315.9	190.6	107.7	69.4	54.9



REPORT NUMBER: P979140
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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	755.0	755.0	717.7	634.8	526.1	402.9	268.2	164.7	101.5	68.4	54.9
112.5°	649.3	645.2	613.1	539.6	442.2	331.4	226.8	142.9	96.3	67.3	53.9
115°	540.6	539.6	510.6	448.4	366.6	278.6	193.7	126.3	92.2	65.2	51.8
117.5°	458.8	458.8	431.9	373.9	303.4	234.1	166.7	111.8	87.0	61.1	48.7
120°	393.5	390.4	368.7	313.8	255.8	198.8	145.0	102.5	81.8	55.9	44.5
122.5°	323.1	323.1	304.5	262.0	216.4	174.0	129.5	93.2	75.6	50.7	39.4
125°	266.2	266.2	248.6	218.5	184.3	152.2	116.0	84.9	67.3	44.5	35.2
127.5°	219.6	219.6	205.1	184.3	162.6	135.7	104.6	78.7	60.1	40.4	31.1
130°	181.2	179.2	171.9	160.5	145.0	122.2	95.3	73.5	53.9	35.2	28.0
132.5°	153.3	152.2	150.2	146.0	132.6	110.8	87.0	67.3	47.6	31.1	24.9
135°	138.8	138.8	141.9	137.7	122.2	99.4	78.7	61.1	42.5	28.0	21.7
137.5°	141.9	140.8	139.8	130.5	109.8	89.1	70.4	54.9	36.2	23.8	18.6
140°	142.9	140.8	133.6	118.1	95.3	77.7	62.1	47.6	30.0	19.7	15.5
142.5°	126.3	125.3	115.0	100.5	81.8	67.3	54.9	40.4	24.9	16.6	12.4
145°	102.5	101.5	93.2	81.8	68.4	57.0	46.6	33.1	19.7	12.4	10.4
147.5°	78.7	78.7	73.5	66.3	57.0	48.7	39.4	25.9	15.5	10.4	8.3
150°	63.2	62.1	60.1	53.9	47.6	41.4	31.1	19.7	11.4	8.3	7.2
152.5°	50.7	50.7	48.7	44.5	39.4	33.1	23.8	14.5	9.3	7.2	6.2
155°	40.4	40.4	38.3	35.2	32.1	24.9	16.6	10.4	7.2	6.2	5.2
157.5°	31.1	31.1	30.0	26.9	22.8	17.6	11.4	8.3	6.2	5.2	4.1
160°	23.8	23.8	22.8	19.7	16.6	11.4	8.3	6.2	5.2	4.1	4.1
162.5°	16.6	17.6	15.5	13.5	10.4	8.3	6.2	5.2	5.2	4.1	4.1
165°	11.4	11.4	10.4	8.3	7.2	6.2	5.2	4.1	4.1	4.1	3.1
167.5°	7.2	6.2	6.2	5.2	5.2	5.2	4.1	4.1	4.1	4.1	3.1
170°	3.1	3.1	3.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	3.1
172.5°	0.0	1.0	2.1	3.1	3.1	4.1	4.1	4.1	4.1	4.1	3.1
175°	0.0	1.0	2.1	3.1	4.1	4.1	4.1	4.1	4.1	4.1	3.1
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4531.9	4531.9	4531.9	4531.9	4531.9	4531.9	4531.9	4531.9	4531.9	4531.9
2.5°	4542.3	4555.7	4540.2	4486.3	4462.5	4447.0	4440.8	4434.6	4426.3	4436.6
5°	4552.6	4495.7	4435.6	4383.8	4294.8	4181.9	4089.7	4037.9	3995.5	3971.6
7.5°	4529.8	4443.9	4330.0	4117.7	3905.4	3712.7	3550.1	3473.5	3430.0	3430.0
10°	4492.6	4379.7	4102.1	3782.1	3489.0	3328.5	3263.3	3222.9	3197.0	3194.9
12.5°	4431.5	4245.0	3827.7	3442.4	3256.0	3132.8	2962.9	2806.6	2715.4	2712.3
15°	4338.3	4054.5	3561.5	3233.2	3043.7	2724.7	2481.4	2366.4	2322.9	2301.2
17.5°	4223.3	3838.0	3289.2	3045.8	2646.0	2347.8	2182.1	2045.4	1972.9	1967.7
20°	4120.8	3591.6	3119.3	2718.5	2310.5	2053.7	1879.7	1780.2	1729.5	1720.2
22.5°	3998.6	3389.6	2921.5	2395.4	2027.8	1794.7	1612.5	1461.3	1378.4	1390.9
25°	3838.0	3161.8	2673.0	2124.1	1777.1	1542.1	1292.5	1130.9	1039.8	1026.3
27.5°	3686.8	2941.2	2389.2	1869.3	1542.1	1234.5	996.3	875.1	818.1	803.6
30°	3517.0	2767.2	2136.5	1647.7	1286.3	976.6	801.6	700.1	660.7	651.4
32.5°	3342.0	2572.5	1904.5	1440.6	1051.2	777.8	649.3	586.2	553.0	547.8
35°	3149.4	2369.5	1695.3	1216.9	840.9	647.3	554.1	498.1	467.1	459.8
37.5°	2965.0	2158.3	1476.8	1010.8	687.7	546.8	467.1	426.7	401.8	398.7
40°	2755.8	1921.1	1261.4	827.5	580.0	466.0	402.9	357.3	337.6	332.4
42.5°	2523.8	1693.3	1083.3	677.3	495.0	397.7	336.6	296.2	277.5	273.4
45°	2290.8	1488.2	917.6	564.4	419.4	334.5	277.5	239.2	219.6	217.5
47.5°	2057.8	1300.8	770.5	478.5	357.3	278.6	220.6	185.4	171.9	168.8
49°	1927.3	1199.3	692.8	439.1	322.1	247.5	190.6	158.5	147.1	145.0
50°	1855.8	1144.4	639.0	412.2	298.3	225.8	174.0	144.0	130.5	128.4
52.5°	1675.6	976.6	529.2	355.2	247.5	179.2	135.7	108.7	98.4	97.3
55°	1492.3	833.7	453.6	305.5	206.1	141.9	103.6	82.9	71.5	70.4
57.5°	1322.5	695.9	394.6	257.9	167.8	108.7	74.6	54.9	47.6	45.6
60°	1154.7	583.1	344.9	215.4	133.6	80.8	50.7	33.1	28.0	26.9
62.5°	994.2	484.7	298.3	181.2	101.5	54.9	26.9	14.5	13.5	14.5
65°	832.6	406.0	255.8	148.1	75.6	33.1	7.2	3.1	1.0	0.0
67.5°	684.6	345.9	218.5	119.1	50.7	12.4	0.0	0.0	0.0	0.0
70°	536.5	290.0	182.3	92.2	31.1	2.1	0.0	0.0	0.0	0.0
72.5°	414.3	241.3	151.2	69.4	15.5	0.0	0.0	0.0	0.0	0.0
75°	312.8	193.7	122.2	49.7	4.1	0.0	0.0	0.0	0.0	0.0
77.5°	234.1	156.4	97.3	35.2	1.0	0.0	0.0	0.0	0.0	0.0
80°	175.0	124.3	75.6	23.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	126.3	97.3	58.0	15.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	90.1	77.7	44.5	11.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	66.3	63.2	36.2	8.3	0.0	0.0	0.0	0.0	0.0	0.0
90°	52.8	51.8	29.0	6.2	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	45.6	43.5	23.8	5.2	0.0	0.0	0.0	0.0	0.0	0.0
95°	43.5	38.3	20.7	4.1	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	43.5	34.2	17.6	4.1	0.0	0.0	0.0	0.0	0.0	0.0
100°	44.5	32.1	15.5	3.1	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	44.5	30.0	13.5	3.1	0.0	0.0	0.0	0.0	0.0	0.0
105°	45.6	28.0	12.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	44.5	25.9	10.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P979140
 CATALOG NUMBER: WPMLD26S-100W-4000K

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	43.5	23.8	9.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	43.5	22.8	7.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
115°	41.4	20.7	6.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	38.3	18.6	5.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
120°	34.2	15.5	5.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	30.0	13.5	4.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	26.9	12.4	4.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	23.8	11.4	4.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	20.7	10.4	4.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	18.6	8.3	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	16.6	8.3	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	14.5	7.2	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	12.4	5.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	9.3	4.1	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	8.3	4.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	7.2	4.1	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	6.2	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	5.2	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	4.1	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	4.1	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	3.1	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	3.1	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	3.1	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	3.1	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	3.1	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	3.1	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	3.1	2.1	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: SP1-2407-168-3

Test Date: 08/08/2024

Luminaire Tested: LSDL-92S-100W 4000k

Data in this report applies to families of products including LSDL-92S-100W 4000k.

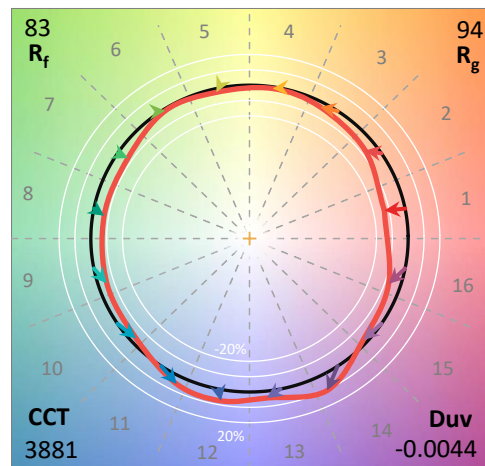
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-168-3
 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 4000k**
 Description: Lumark Wallpack 100W

Spectral Parameters

CCT (K): 3881
 CIE u': 0.2297
 CIE v': 0.4983
 Duv: -0.0044
 CIE x: 0.3825
 CIE y: 0.3688
 CIE z: 0.2487
 Peak Wavelength (nm): 453
 Dominant Wavelength (nm): 582
 Purity: 25.44833
 Rf: 82.8
 Rg: 93.7

CRI (Ra):	82.7		
R1:	82.3	R9:	4.8
R2:	93.7	R10:	84.4
R3:	93.3	R11:	77.9
R4:	79.0	R12:	66.7
R5:	82.7	R13:	85.8
R6:	89.4	R14:	97.2
R7:	81.3	R15:	76.3
R8:	59.9		



Test Conditions

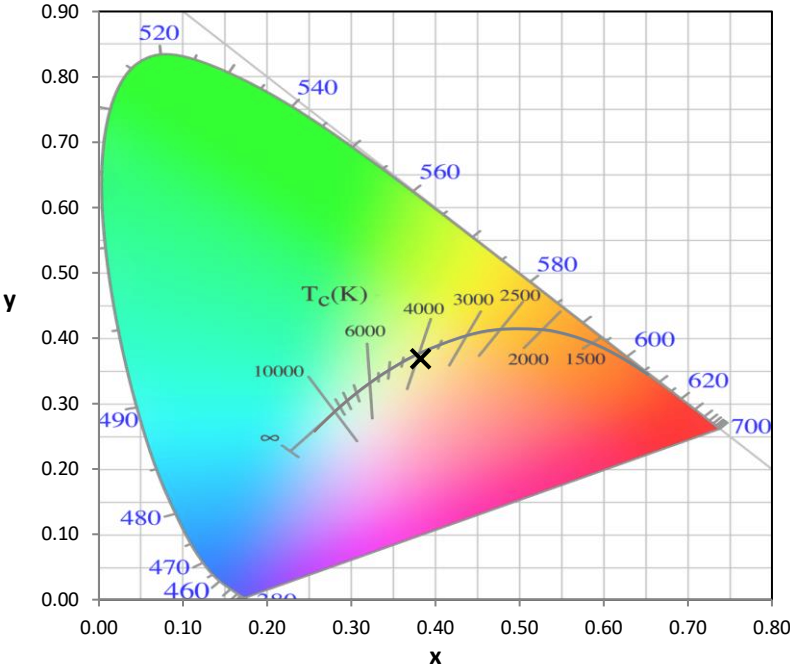
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2407-168-3

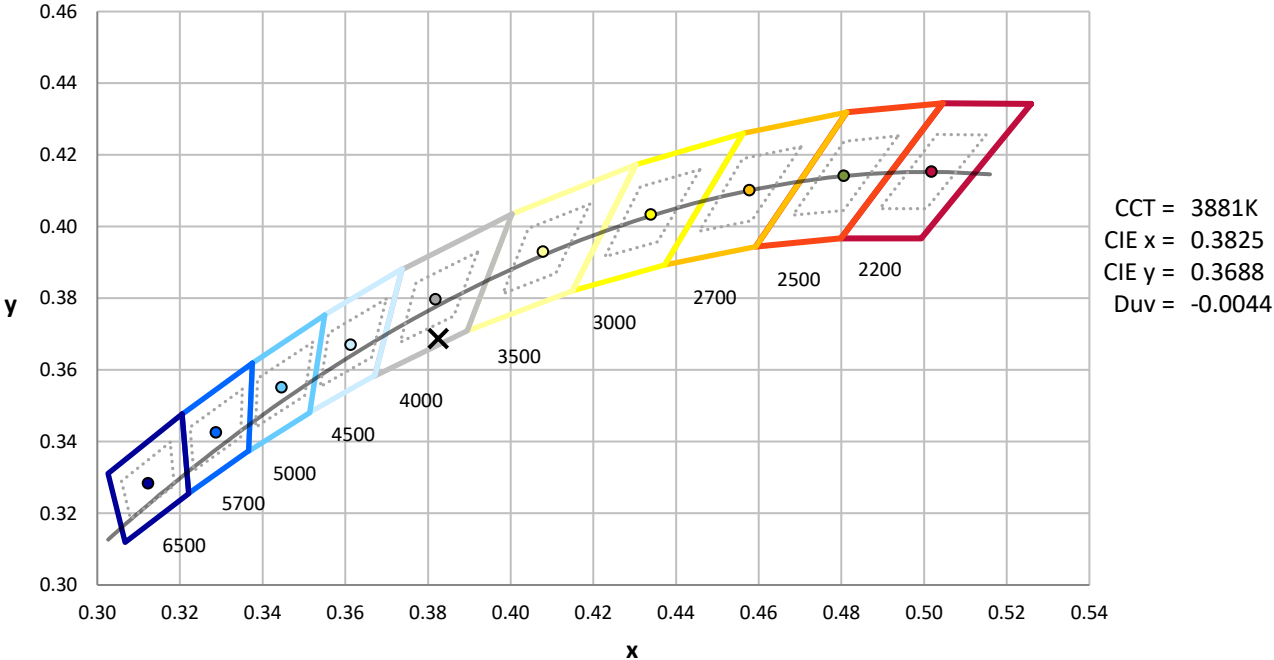
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-168-3

CIE 1931 Chromaticity Diagram



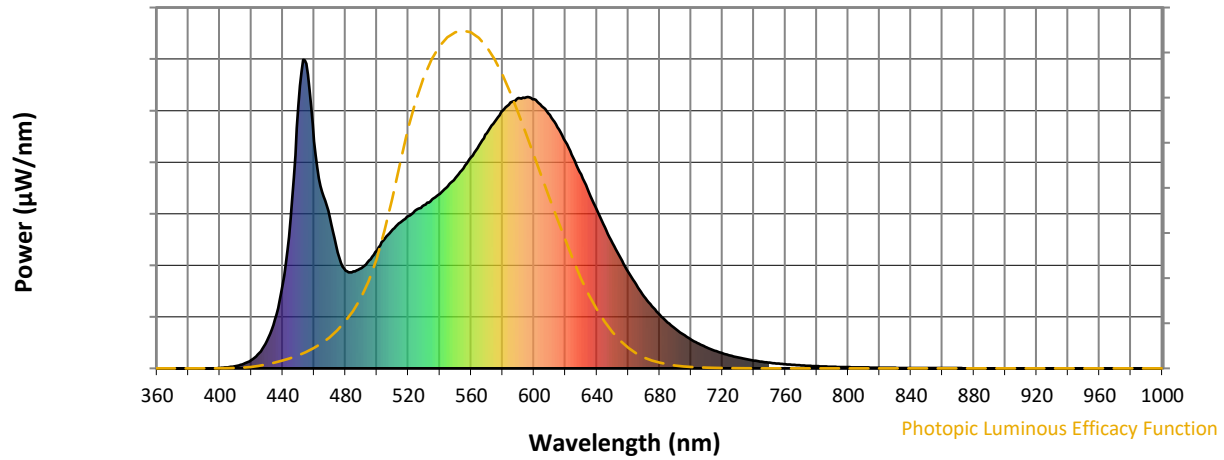
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 7-step quadrangle

REPORT NUMBER: SP1-2407-168-3

Photopic Flux vs. Wavelength

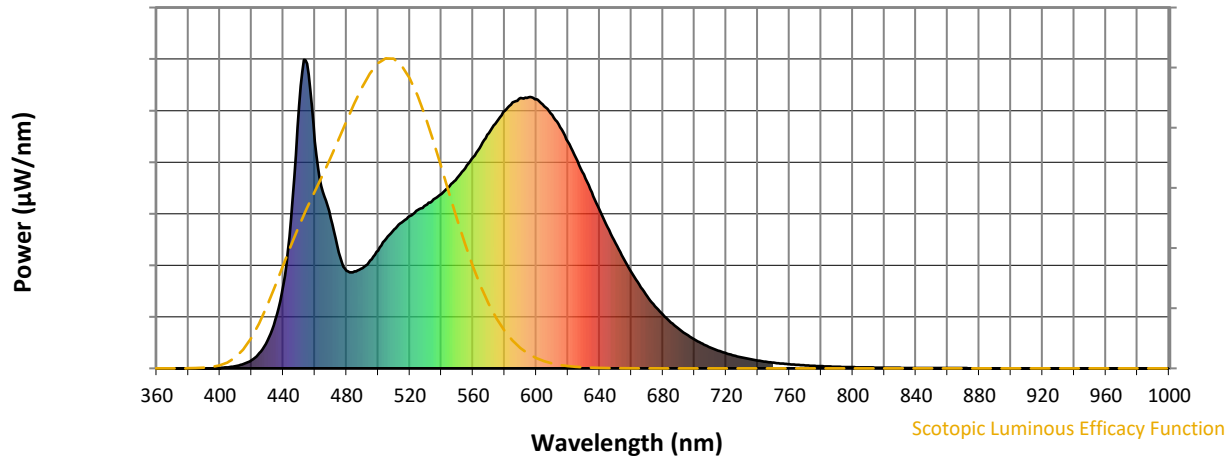


Photopic Lumens: NR

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	325	NR	620	735	NR	750	18	NR	880	0	NR
365	0	NR	495	350	NR	625	682	NR	755	16	NR	885	0	NR
370	0	NR	500	382	NR	630	629	NR	760	13	NR	890	0	NR
375	0	NR	505	421	NR	635	570	NR	765	11	NR	895	0	NR
380	0	NR	510	450	NR	640	514	NR	770	10	NR	900	0	NR
385	0	NR	515	474	NR	645	458	NR	775	8	NR	905	0	NR
390	0	NR	520	494	NR	650	406	NR	780	7	NR	910	0	NR
395	0	NR	525	513	NR	655	358	NR	785	6	NR	915	0	NR
400	2	NR	530	529	NR	660	312	NR	790	5	NR	920	0	NR
405	4	NR	535	548	NR	665	271	NR	795	4	NR	925	0	NR
410	8	NR	540	565	NR	670	234	NR	800	4	NR	930	0	NR
415	14	NR	545	591	NR	675	202	NR	805	3	NR	935	0	NR
420	27	NR	550	618	NR	680	174	NR	810	3	NR	940	0	NR
425	50	NR	555	649	NR	685	149	NR	815	2	NR	945	0	NR
430	89	NR	560	685	NR	690	129	NR	820	2	NR	950	0	NR
435	159	NR	565	723	NR	695	110	NR	825	2	NR	955	0	NR
440	272	NR	570	762	NR	700	93	NR	830	2	NR	960	0	NR
445	486	NR	575	800	NR	705	80	NR	835	1	NR	965	0	NR
450	852	NR	580	835	NR	710	67	NR	840	1	NR	970	0	NR
455	988	NR	585	862	NR	715	57	NR	845	1	NR	975	0	NR
460	735	NR	590	876	NR	720	49	NR	850	1	NR	980	0	NR
465	572	NR	595	879	NR	725	42	NR	855	1	NR	985	0	NR
470	486	NR	600	872	NR	730	35	NR	860	1	NR	990	0	NR
475	375	NR	605	850	NR	735	30	NR	865	1	NR	995	0	NR
480	317	NR	610	821	NR	740	25	NR	870	1	NR	1000	0	NR
485	314	NR	615	782	NR	745	22	NR	875	0	NR			

REPORT NUMBER: SP1-2407-168-3

Scotopic Flux vs. Wavelength



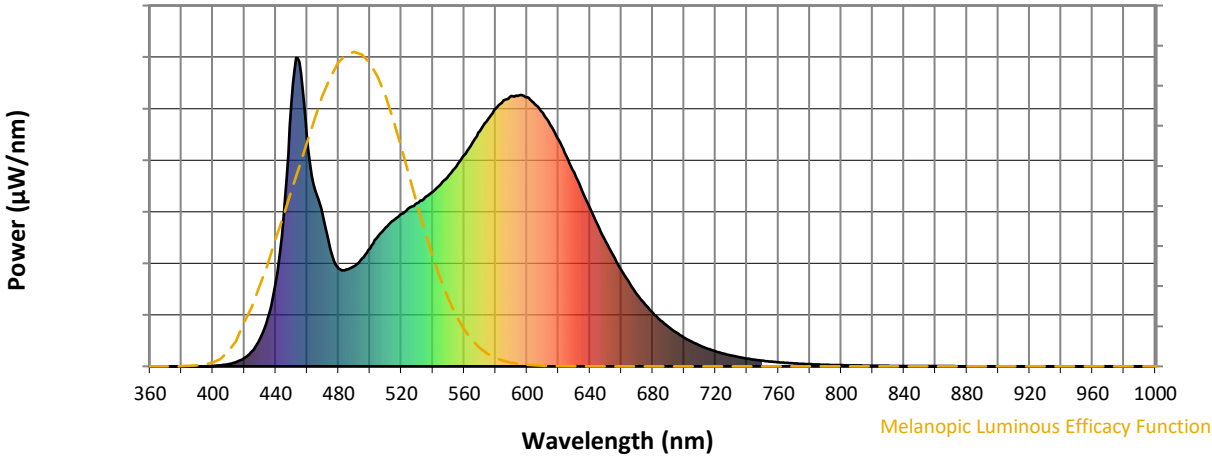
Scotopic Lumens: NR

S/P: 1.72

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	325	NR	620	735	NR	750	18	NR	880	0	NR
365	0	NR	495	350	NR	625	682	NR	755	16	NR	885	0	NR
370	0	NR	500	382	NR	630	629	NR	760	13	NR	890	0	NR
375	0	NR	505	421	NR	635	570	NR	765	11	NR	895	0	NR
380	0	NR	510	450	NR	640	514	NR	770	10	NR	900	0	NR
385	0	NR	515	474	NR	645	458	NR	775	8	NR	905	0	NR
390	0	NR	520	494	NR	650	406	NR	780	7	NR	910	0	NR
395	0	NR	525	513	NR	655	358	NR	785	6	NR	915	0	NR
400	2	NR	530	529	NR	660	312	NR	790	5	NR	920	0	NR
405	4	NR	535	548	NR	665	271	NR	795	4	NR	925	0	NR
410	8	NR	540	565	NR	670	234	NR	800	4	NR	930	0	NR
415	14	NR	545	591	NR	675	202	NR	805	3	NR	935	0	NR
420	27	NR	550	618	NR	680	174	NR	810	3	NR	940	0	NR
425	50	NR	555	649	NR	685	149	NR	815	2	NR	945	0	NR
430	89	NR	560	685	NR	690	129	NR	820	2	NR	950	0	NR
435	159	NR	565	723	NR	695	110	NR	825	2	NR	955	0	NR
440	272	NR	570	762	NR	700	93	NR	830	2	NR	960	0	NR
445	486	NR	575	800	NR	705	80	NR	835	1	NR	965	0	NR
450	852	NR	580	835	NR	710	67	NR	840	1	NR	970	0	NR
455	988	NR	585	862	NR	715	57	NR	845	1	NR	975	0	NR
460	735	NR	590	876	NR	720	49	NR	850	1	NR	980	0	NR
465	572	NR	595	879	NR	725	42	NR	855	1	NR	985	0	NR
470	486	NR	600	872	NR	730	35	NR	860	1	NR	990	0	NR
475	375	NR	605	850	NR	735	30	NR	865	1	NR	995	0	NR
480	317	NR	610	821	NR	740	25	NR	870	1	NR	1000	0	NR
485	314	NR	615	782	NR	745	22	NR	875	0	NR			

REPORT NUMBER: SP1-2407-168-3

Melanopic Flux vs. Wavelength



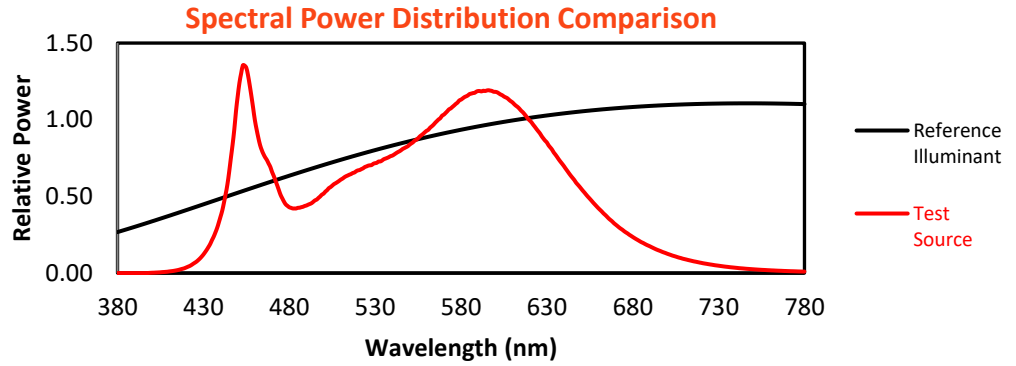
Melanopic Lumens: NR

M/P: 3.62

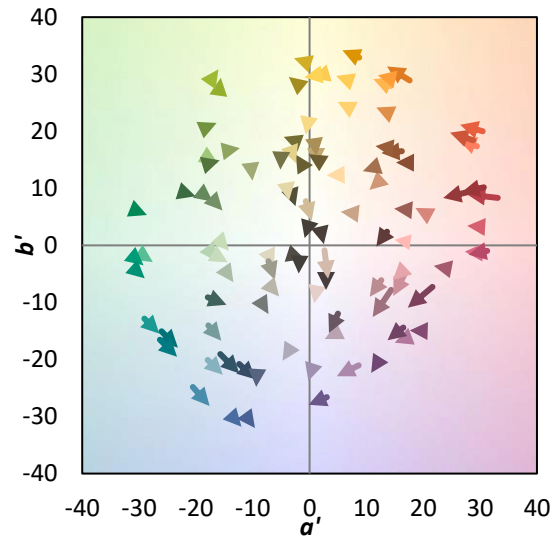
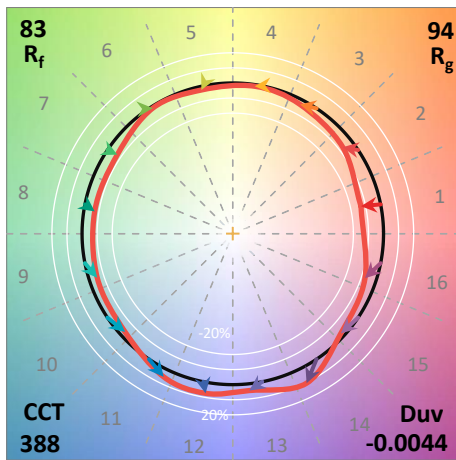
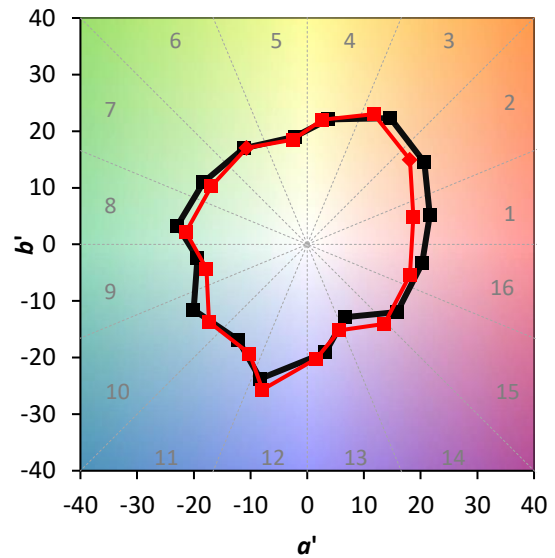
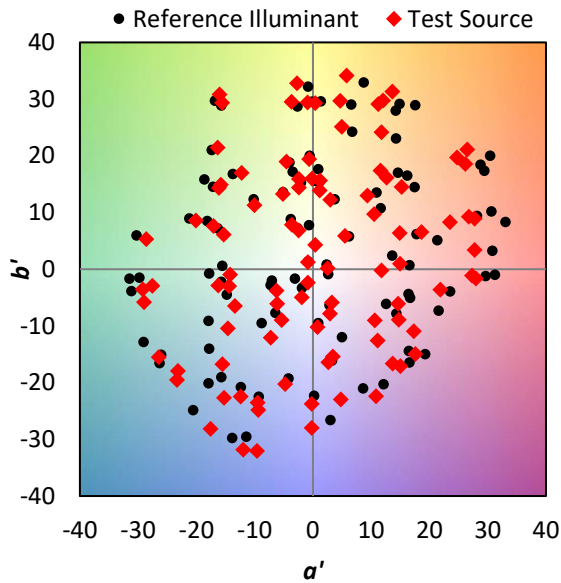
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	325	NR	620	735	NR	750	18	NR	880	0	NR
365	0	NR	495	350	NR	625	682	NR	755	16	NR	885	0	NR
370	0	NR	500	382	NR	630	629	NR	760	13	NR	890	0	NR
375	0	NR	505	421	NR	635	570	NR	765	11	NR	895	0	NR
380	0	NR	510	450	NR	640	514	NR	770	10	NR	900	0	NR
385	0	NR	515	474	NR	645	458	NR	775	8	NR	905	0	NR
390	0	NR	520	494	NR	650	406	NR	780	7	NR	910	0	NR
395	0	NR	525	513	NR	655	358	NR	785	6	NR	915	0	NR
400	2	NR	530	529	NR	660	312	NR	790	5	NR	920	0	NR
405	4	NR	535	548	NR	665	271	NR	795	4	NR	925	0	NR
410	8	NR	540	565	NR	670	234	NR	800	4	NR	930	0	NR
415	14	NR	545	591	NR	675	202	NR	805	3	NR	935	0	NR
420	27	NR	550	618	NR	680	174	NR	810	3	NR	940	0	NR
425	50	NR	555	649	NR	685	149	NR	815	2	NR	945	0	NR
430	89	NR	560	685	NR	690	129	NR	820	2	NR	950	0	NR
435	159	NR	565	723	NR	695	110	NR	825	2	NR	955	0	NR
440	272	NR	570	762	NR	700	93	NR	830	2	NR	960	0	NR
445	486	NR	575	800	NR	705	80	NR	835	1	NR	965	0	NR
450	852	NR	580	835	NR	710	67	NR	840	1	NR	970	0	NR
455	988	NR	585	862	NR	715	57	NR	845	1	NR	975	0	NR
460	735	NR	590	876	NR	720	49	NR	850	1	NR	980	0	NR
465	572	NR	595	879	NR	725	42	NR	855	1	NR	985	0	NR
470	486	NR	600	872	NR	730	35	NR	860	1	NR	990	0	NR
475	375	NR	605	850	NR	735	30	NR	865	1	NR	995	0	NR
480	317	NR	610	821	NR	740	25	NR	870	1	NR	1000	0	NR
485	314	NR	615	782	NR	745	22	NR	875	0	NR			

Summary

$R_f = 82.8$
 $R_g = 93.7$
 CIE $R_a = 82.7$
 $R_9 = 4.8$

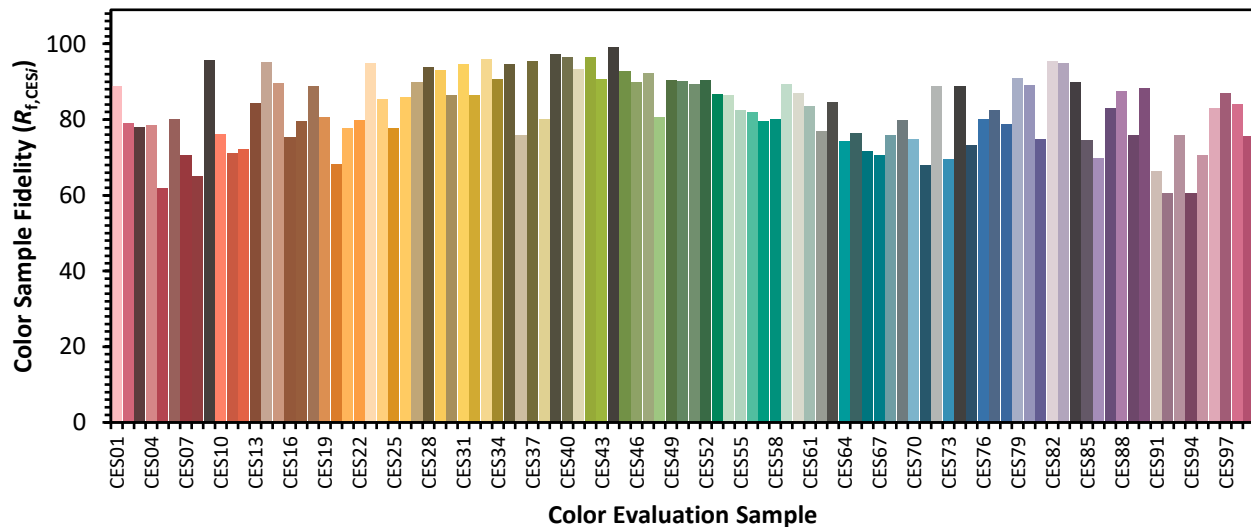


Color Vector Graphics

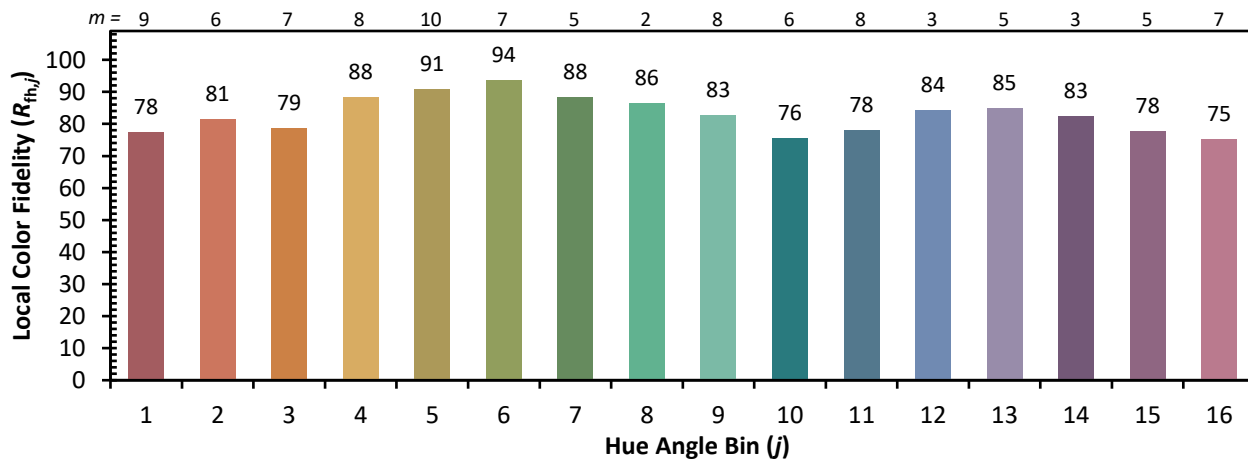
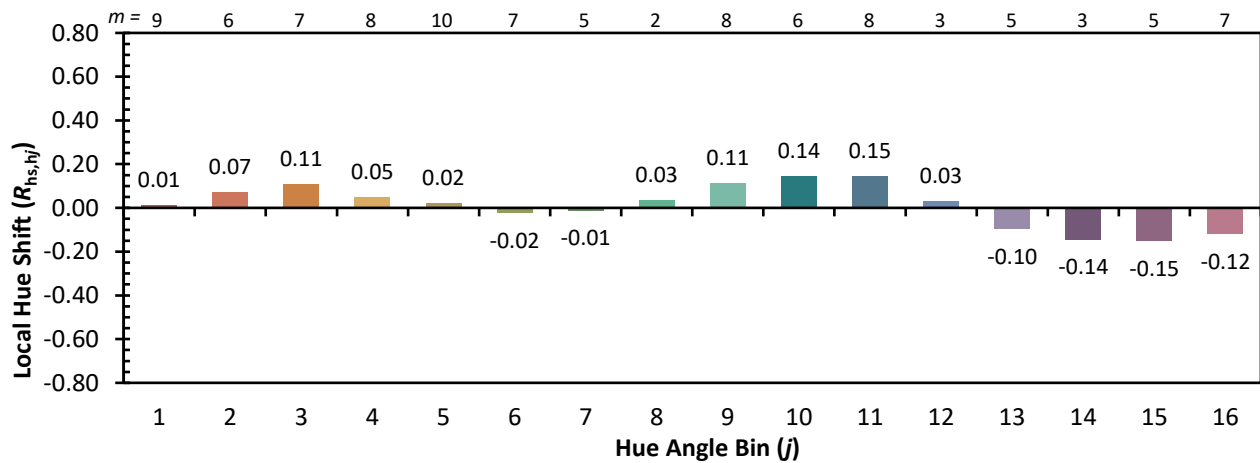
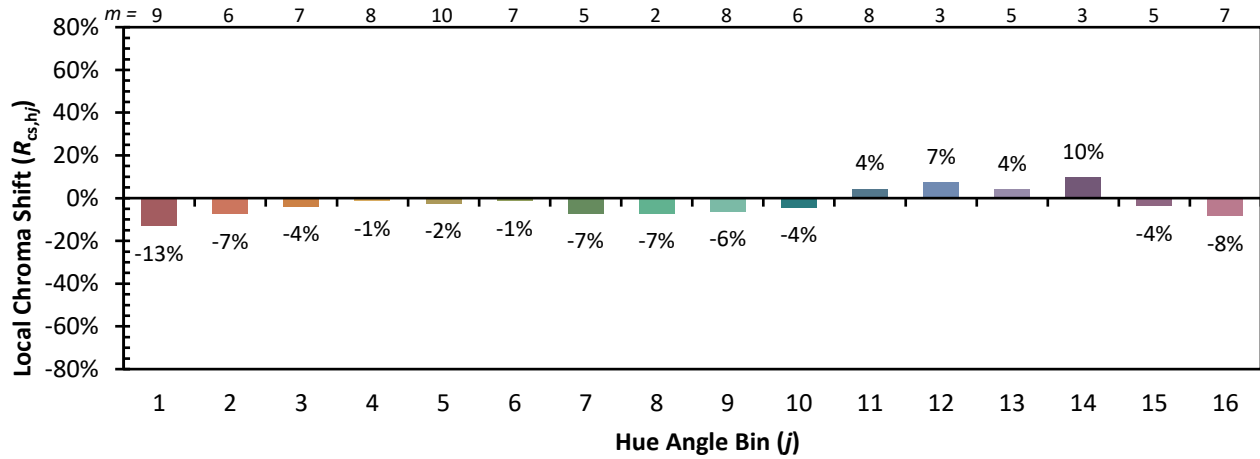


Individual Sample Fidelity Index ($R_{f,i}$)

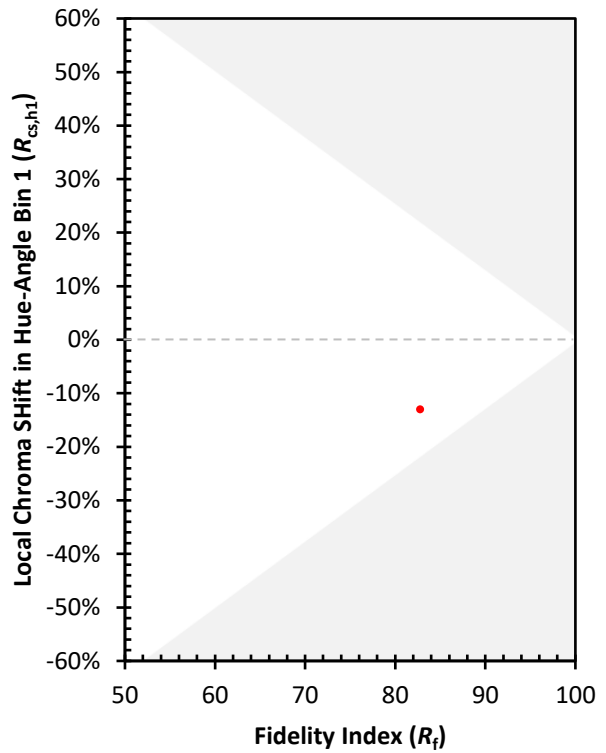
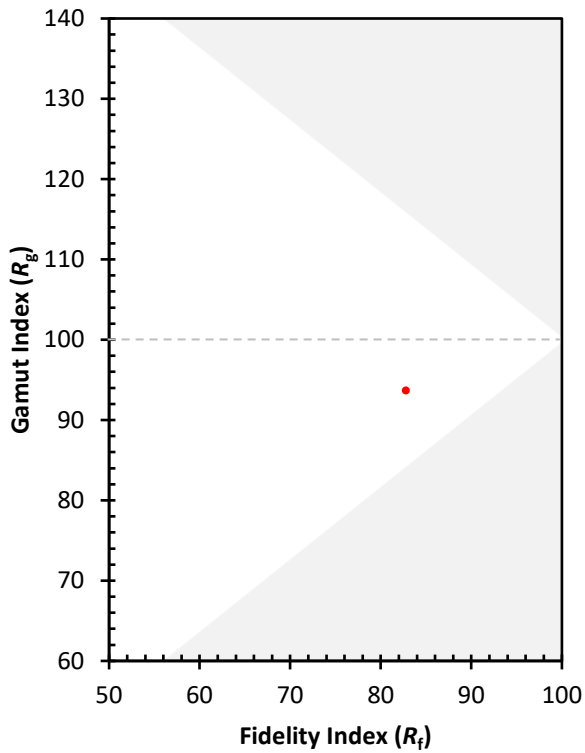
CES01 = 86	CES26 = 86	CES51 = 89	CES76 = 80
CES02 = 62	CES27 = 90	CES52 = 91	CES77 = 83
CES03 = 31	CES28 = 94	CES53 = 87	CES78 = 79
CES04 = 70	CES29 = 93	CES54 = 86	CES79 = 91
CES05 = 48	CES30 = 86	CES55 = 83	CES80 = 89
CES06 = 51	CES31 = 95	CES56 = 82	CES81 = 75
CES07 = 41	CES32 = 86	CES57 = 80	CES82 = 95
CES08 = 40	CES33 = 96	CES58 = 80	CES83 = 95
CES09 = 29	CES34 = 91	CES59 = 89	CES84 = 90
CES10 = 75	CES35 = 95	CES60 = 87	CES85 = 75
CES11 = 58	CES36 = 76	CES61 = 83	CES86 = 70
CES12 = 64	CES37 = 95	CES62 = 77	CES87 = 83
CES13 = 43	CES38 = 80	CES63 = 85	CES88 = 88
CES14 = 74	CES39 = 97	CES64 = 74	CES89 = 76
CES15 = 71	CES40 = 96	CES65 = 76	CES90 = 88
CES16 = 47	CES41 = 93	CES66 = 72	CES91 = 66
CES17 = 49	CES42 = 96	CES67 = 71	CES92 = 60
CES18 = 56	CES43 = 91	CES68 = 76	CES93 = 76
CES19 = 72	CES44 = 99	CES69 = 80	CES94 = 61
CES20 = 65	CES45 = 93	CES70 = 75	CES95 = 71
CES21 = 86	CES46 = 90	CES71 = 68	CES96 = 83
CES22 = 78	CES47 = 92	CES72 = 89	CES97 = 87
CES23 = 91	CES48 = 81	CES73 = 70	CES98 = 84
CES24 = 90	CES49 = 90	CES74 = 89	CES99 = 76
CES25 = 71	CES50 = 90	CES75 = 73	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)