

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: P979138

Luminaire Tested: **WPMLED26S-100W-3000K**

Issue Date: 03/31/2025



Test Information

Test Method: LM-79-08
Report Number: P979138
Test Lab: Cooper Lighting Solutions
Issue Date: 03/31/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: WPMLD26S-100W-3000K
Description: LUMARK WALL PACK LED MEDIUM 80CRI CCT AND LUMEN SELECTIVE FIXTURE
OPERATING @100W-3000K
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

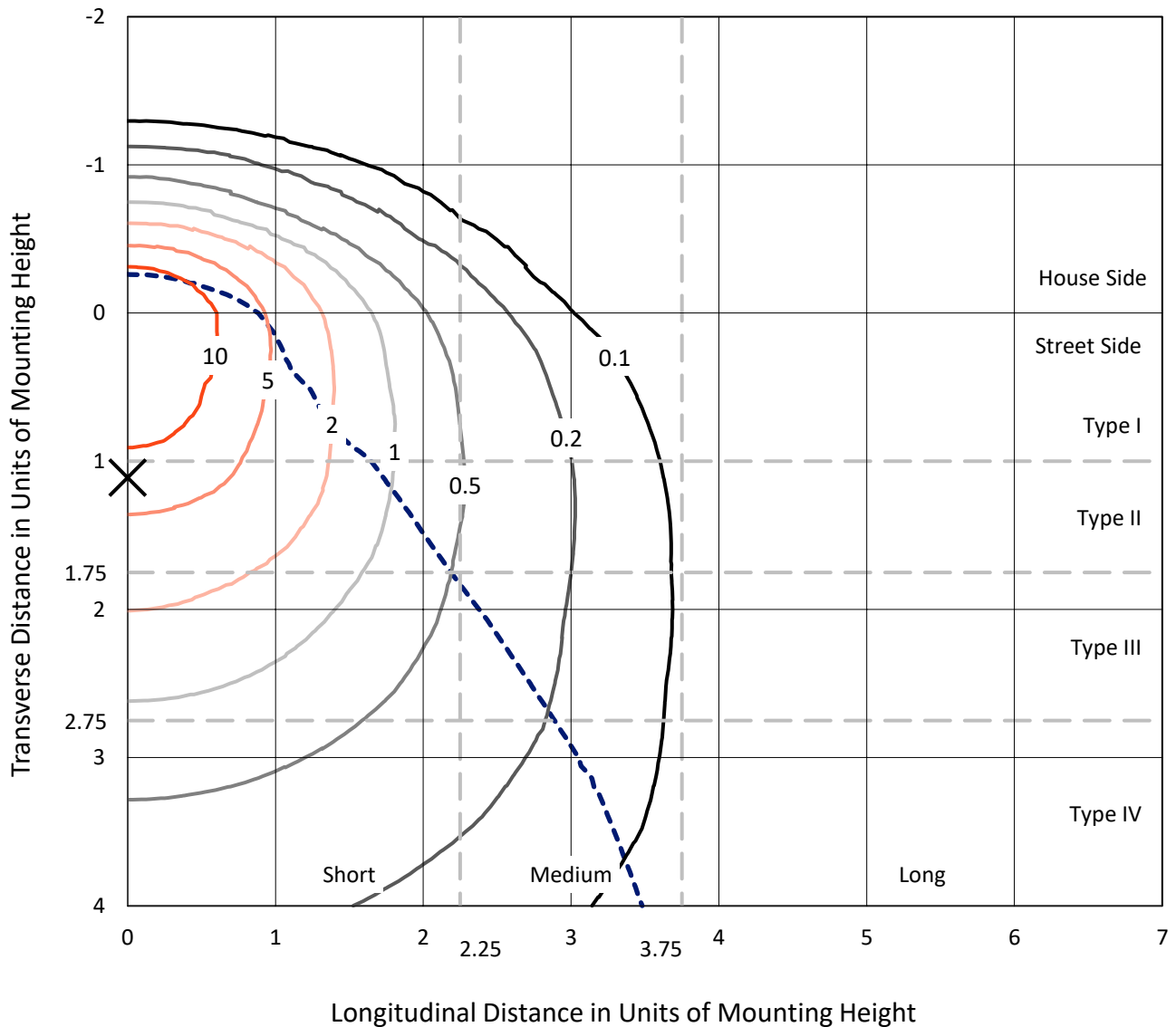
Lumens per Lamp: N/A
Luminaire Lumens: 14165.3 lumens
Efficiency: N/A
Efficacy: 141.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.86' x L: 0.17' x H: 0.58')
IES Classification: Type IV - Short
BUG Rating: B3 - U3 - G5

Input Watts (W): 100.2
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

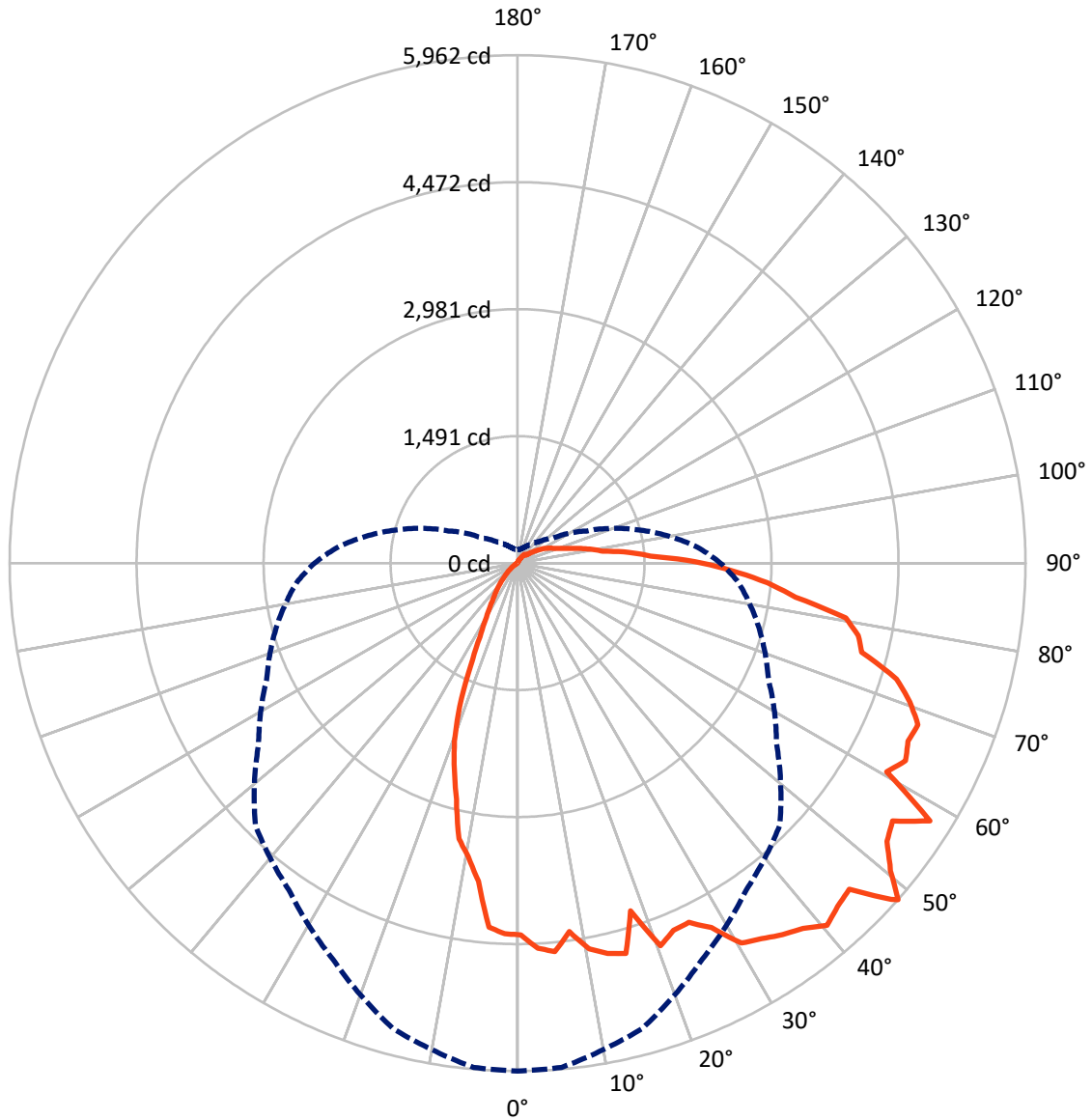
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 19.4 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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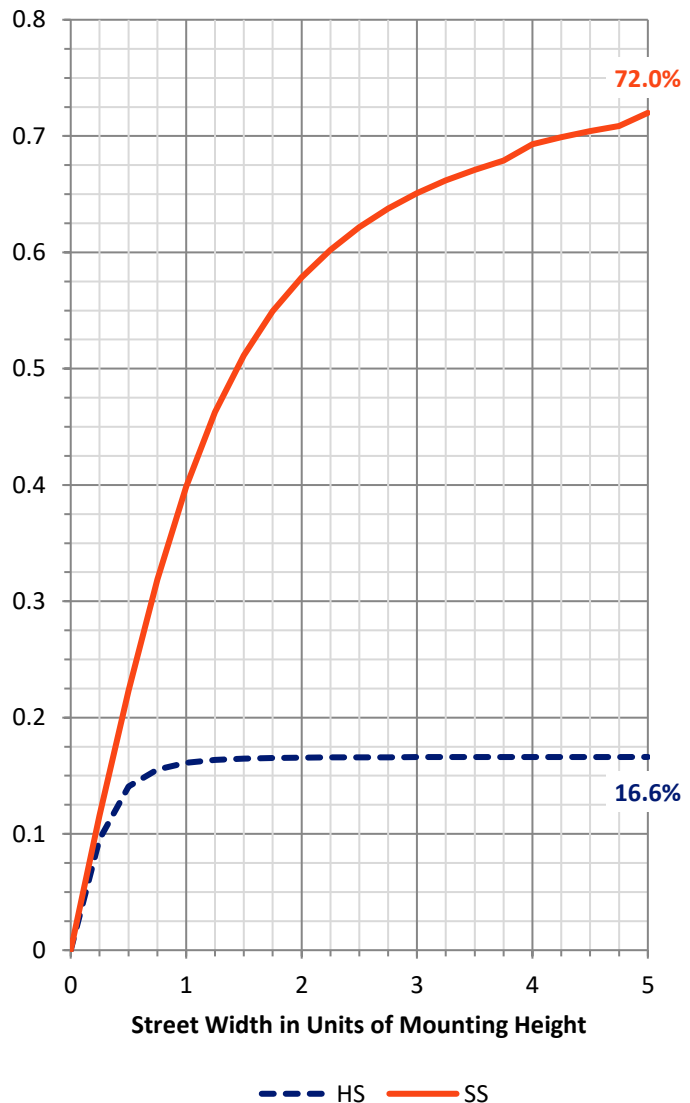
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2382.0	18.6	2400.5
	% Fixture	16.8	0.1	16.9
Street Side	Lumens	10877.3	887.5	11764.8
	% Fixture	76.8	6.3	83.1
Total	Lumens	13259.2	906.1	14165.3
	% Fixture	93.6	6.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.1	2.9
10°-20°	1119.7	7.9
20°-30°	1560.9	11.0
30°-40°	1831.4	12.9
40°-50°	1986.4	14.0
50°-60°	1979.6	14.0
60°-70°	1833.9	12.9
70°-80°	1536.9	10.8
80°-90°	997.4	7.0
90°-100°	450.0	3.2
100°-110°	213.6	1.5
110°-120°	118.7	0.8
120°-130°	64.9	0.5
130°-140°	35.4	0.3
140°-150°	17.1	0.1
150°-160°	5.3	0.0
160°-170°	1.0	0.0
170°-180°	0.1	0.0
0°-90°	13259.2	93.6
0°-180°	14165.3	100.0



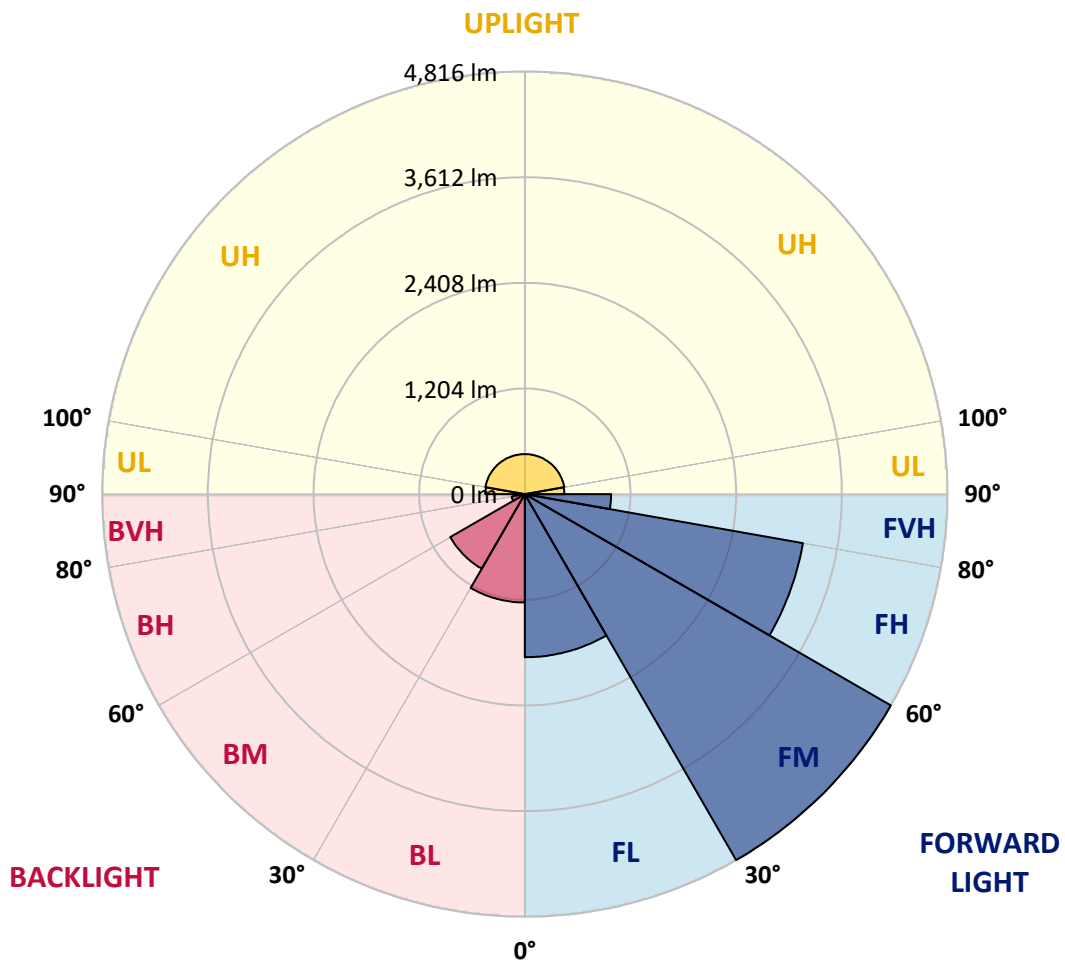
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1858.9	13.1			
FM (30°-60°)	4816.0	34.0			
FH (60°-80°)	3218.7	22.7			G2/5000
FVH (80°-90°)	983.7	6.9			G5
BL (0°-30°)	1234.7	8.7	B3/2500		
BM (30°-60°)	981.4	6.9	B1/1000		
BH (60°-80°)	152.2	1.1	B1/500		G1/500
BVH (80°-90°)	13.7	0.1			G1/100
UL (90°-100°)	450.0	3.2		U3/500	
UH (100°-180°)	456.1	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°	4363.8	4363.8	4363.8	4363.8	4363.8	4363.8	4363.8	4363.8	4363.8	4363.8	4363.8
2.5°	4525.0	4527.1	4517.9	4513.8	4511.8	4496.5	4478.1	4469.9	4455.6	4399.5	4360.7
5°	4580.2	4575.1	4573.0	4585.3	4607.7	4630.2	4551.6	4485.2	4445.4	4412.8	4348.5
7.5°	4367.9	4369.9	4380.1	4429.1	4537.3	4561.8	4577.1	4566.9	4467.9	4413.8	4328.1
10°	4604.6	4590.4	4549.5	4446.5	4377.1	4370.9	4539.3	4550.6	4478.1	4412.8	4303.6
12.5°	4700.6	4684.2	4647.5	4592.4	4542.4	4383.2	4364.8	4494.4	4510.8	4365.8	4246.4
15°	4754.7	4787.3	4849.6	4871.0	4654.7	4559.7	4306.6	4389.3	4466.9	4314.8	4191.3
17.5°	4291.3	4283.2	4284.2	4453.6	4795.5	4642.4	4435.2	4239.3	4344.4	4224.0	4107.6
20°	4794.5	4758.7	4627.1	4305.6	4299.5	4731.2	4452.6	4110.7	4224.0	4131.1	4020.9
22.5°	4680.2	4666.9	4717.9	4809.8	4363.8	4247.5	4562.8	4151.5	4136.2	4030.1	3930.1
25°	4672.0	4653.6	4593.4	4580.2	4743.4	4147.4	4416.9	4208.7	4033.1	3916.8	3832.1
27.5°	4845.5	4793.4	4622.0	4578.1	4469.9	4561.8	4017.8	4180.1	3848.4	3804.5	3730.0
30°	5176.1	5147.6	5075.1	4752.6	4446.5	4359.7	3927.0	4202.6	3662.7	3700.5	3631.1
32.5°	5256.8	5248.6	5282.3	5011.8	4573.0	4210.7	4234.2	3989.3	3583.1	3601.5	3516.8
35°	5355.8	5342.5	5284.3	5060.8	4804.7	4195.4	4080.1	3727.0	3549.4	3507.6	3396.3
37.5°	5440.5	5408.8	5230.2	5023.1	4757.7	4436.3	3906.6	3570.8	3569.8	3389.2	3248.4
40°	5590.5	5563.9	5419.0	5140.4	4678.1	4405.6	3848.4	3644.3	3583.1	3239.2	3074.9
42.5°	5508.8	5487.4	5487.4	5203.7	4712.8	4280.1	3906.6	3681.1	3413.7	3049.4	2865.7
45°	5458.8	5438.4	5470.1	5157.8	4827.1	4216.8	3955.6	3467.8	3190.2	2861.6	2648.3
47.5°	5900.7	5869.1	5518.0	5177.2	4677.1	4316.9	3744.3	3273.9	2967.7	2646.2	2435.0
48°	5962.0	5941.5	5655.8	5130.2	4681.2	4352.6	3710.7	3250.4	2933.0	2602.4	2382.9
50°	5673.1	5685.4	5727.2	5445.6	4776.1	4221.9	3653.5	3153.4	2757.5	2425.8	2211.5
52.5°	5427.2	5405.8	5336.4	5326.2	4910.8	4086.2	3631.1	3176.9	2589.1	2219.7	2020.7
55°	5341.5	5304.7	5220.0	5036.3	4836.3	4189.3	3547.4	2897.3	2429.9	2058.4	1861.5
57.5°	5707.8	5674.2	5480.3	4914.9	4642.4	4251.5	3333.1	2691.1	2224.8	1903.3	1697.1
60°	4977.1	4972.0	5103.7	5117.0	4461.8	4081.1	3273.9	2567.7	2079.8	1757.4	1535.9
62.5°	5109.8	5071.0	4812.8	4645.5	4516.9	3883.1	3213.7	2553.4	1989.0	1601.2	1369.6
65°	5037.4	5023.1	4920.0	4566.9	4216.8	3833.1	3054.5	2343.1	1921.7	1451.2	1210.4
67.5°	5069.0	5066.9	4936.3	4620.0	4131.1	3602.5	2879.9	2236.0	1705.3	1308.3	1042.0
70°	4886.3	4879.2	4794.5	4557.7	4097.4	3465.7	2699.3	2208.4	1559.4	1154.2	849.1
72.5°	4651.6	4644.4	4542.4	4320.9	3976.0	3360.6	2496.2	1989.0	1471.6	980.7	660.3
75°	4173.0	4167.9	4125.0	3988.2	3667.8	3152.4	2298.2	1725.7	1278.7	790.9	505.2
77.5°	4088.3	4069.9	3889.3	3648.4	3432.1	2939.1	2103.3	1529.8	1166.5	616.4	362.3
80°	3907.6	3899.5	3848.4	3512.7	3156.5	2709.5	1923.7	1349.1	960.3	455.2	248.0
82.5°	3285.1	3275.9	3238.2	3143.2	2811.6	2370.7	1691.0	1164.4	773.6	324.5	168.4
85°	2941.2	2931.0	2827.9	2612.6	2443.2	2042.1	1458.3	986.9	612.3	225.5	109.2
87.5°	2513.6	2535.0	2471.7	2307.4	2011.5	1705.3	1203.2	811.3	465.4	151.0	70.4
90°	2084.9	2063.5	2026.8	1899.2	1706.3	1390.0	977.7	645.0	349.0	100.0	50.0
92.5°	1562.4	1566.5	1528.8	1466.5	1395.1	1139.9	778.7	488.8	260.2	73.5	41.8
95°	1315.5	1308.3	1279.7	1195.0	1074.6	916.4	627.6	388.8	207.2	60.2	40.8
97.5°	1008.3	994.0	977.7	964.4	884.8	722.5	522.5	325.6	170.4	58.2	44.9
100°	885.8	882.8	846.0	774.6	702.1	587.8	427.6	276.6	141.9	60.2	48.0
102.5°	764.4	771.5	762.3	709.3	607.2	487.8	354.1	232.7	121.4	62.3	50.0
105°	644.0	640.9	625.6	585.8	525.6	414.3	302.1	194.9	108.2	65.3	52.0
107.5°	554.1	552.1	538.8	498.0	439.8	356.2	253.1	166.3	98.0	65.3	52.0



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 CATALOG NUMBER: WPMLD26S-100W-3000K

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	491.9	489.9	475.6	435.8	376.6	304.1	217.4	142.9	92.9	64.3	52.0
112.5°	446.0	447.0	428.6	387.8	324.5	257.2	186.8	124.5	88.8	63.3	51.0
115°	406.2	406.2	387.8	346.0	283.7	223.5	163.3	110.2	84.7	61.2	50.0
117.5°	367.4	364.3	346.0	303.1	247.0	194.9	142.9	100.0	81.6	57.1	46.9
120°	321.5	320.4	301.1	261.3	216.4	171.4	127.6	91.8	76.5	53.1	41.8
122.5°	276.6	275.5	258.2	224.5	187.8	153.1	114.3	84.7	69.4	48.0	37.8
125°	234.7	234.7	220.4	192.9	164.3	135.7	103.1	77.6	62.3	41.8	33.7
127.5°	197.0	194.9	184.7	166.3	147.0	122.5	93.9	71.4	55.1	37.8	29.6
130°	167.4	163.3	157.2	148.0	132.7	111.2	86.7	66.3	49.0	32.7	26.5
132.5°	141.9	140.8	139.8	135.7	122.5	100.0	78.6	61.2	43.9	28.6	23.5
135°	129.6	129.6	132.7	127.6	113.3	89.8	70.4	55.1	37.8	25.5	20.4
137.5°	135.7	134.7	131.6	121.4	101.0	79.6	63.3	49.0	33.7	21.4	17.3
140°	134.7	132.7	124.5	108.2	86.7	69.4	55.1	42.9	27.6	18.4	14.3
142.5°	113.3	112.3	104.1	89.8	72.5	59.2	48.0	35.7	22.5	14.3	11.2
145°	91.8	90.8	84.7	73.5	61.2	50.0	41.8	29.6	18.4	11.2	9.2
147.5°	70.4	70.4	66.3	59.2	51.0	42.9	34.7	22.5	13.3	9.2	8.2
150°	56.1	56.1	53.1	49.0	42.9	36.7	27.6	17.3	10.2	8.2	7.1
152.5°	44.9	43.9	42.9	38.8	34.7	28.6	20.4	12.2	8.2	7.1	6.1
155°	35.7	35.7	33.7	30.6	27.6	21.4	14.3	9.2	7.1	5.1	5.1
157.5°	27.6	27.6	26.5	23.5	20.4	15.3	9.2	7.1	6.1	5.1	4.1
160°	21.4	20.4	19.4	17.3	14.3	9.2	7.1	5.1	5.1	4.1	3.1
162.5°	15.3	14.3	13.3	11.2	8.2	7.1	5.1	4.1	4.1	3.1	3.1
165°	9.2	9.2	9.2	7.1	6.1	5.1	4.1	4.1	4.1	3.1	3.1
167.5°	6.1	5.1	5.1	4.1	4.1	4.1	4.1	4.1	4.1	3.1	3.1
170°	2.0	2.0	2.0	3.1	3.1	4.1	4.1	4.1	4.1	3.1	3.1
172.5°	0.0	1.0	2.0	2.0	3.1	4.1	4.1	4.1	4.1	3.1	3.1
175°	0.0	1.0	1.0	2.0	3.1	3.1	4.1	4.1	4.1	3.1	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°	4363.8	4363.8	4363.8	4363.8	4363.8	4363.8	4363.8	4363.8	4363.8	4363.8
2.5°	4337.3	4355.6	4377.1	4365.8	4349.5	4330.1	4332.2	4344.4	4356.7	4351.6
5°	4334.2	4365.8	4319.9	4385.2	4408.7	4384.2	4331.1	4292.4	4290.3	4285.2
7.5°	4338.3	4316.9	4390.3	4334.2	4227.0	4034.2	3926.0	3817.8	3762.7	3762.7
10°	4332.2	4348.5	4312.8	4083.2	3830.1	3592.3	3504.5	3496.3	3495.3	3493.3
12.5°	4278.1	4342.4	4132.1	3763.7	3503.5	3485.1	3455.5	3392.3	3324.9	3307.5
15°	4211.7	4223.0	3881.1	3478.0	3444.3	3291.2	3058.5	2922.8	2864.6	2863.6
17.5°	4115.8	4043.4	3555.5	3397.4	3197.3	2890.1	2746.3	2621.7	2530.9	2535.0
20°	4020.9	3834.1	3350.4	3209.6	2839.1	2607.5	2410.5	2293.1	2229.9	2218.6
22.5°	3927.0	3638.2	3224.9	2899.3	2565.6	2288.0	2103.3	1932.9	1822.7	1817.6
25°	3829.0	3439.2	3054.5	2620.7	2276.8	2001.3	1695.1	1453.2	1342.0	1320.6
27.5°	3707.6	3201.4	2814.6	2356.4	1996.2	1607.3	1260.4	1070.5	998.1	970.5
30°	3574.9	2995.3	2569.7	2097.2	1658.4	1219.5	961.3	825.6	766.4	760.3
32.5°	3427.0	2813.6	2343.1	1832.9	1325.7	943.0	755.2	657.2	612.3	609.3
35°	3253.5	2641.1	2094.1	1554.3	1034.8	745.0	610.3	537.8	503.1	500.1
37.5°	3067.7	2441.1	1850.2	1263.4	816.4	606.2	503.1	443.9	420.5	417.4
40°	2857.5	2236.0	1576.7	1013.4	655.2	501.1	418.4	368.4	342.9	337.8
42.5°	2640.1	1982.9	1344.0	804.2	542.9	417.4	341.9	299.0	280.6	278.6
45°	2402.3	1752.3	1124.6	649.1	449.0	344.9	279.6	238.8	220.4	215.3
47.5°	2163.5	1537.9	929.7	531.7	368.4	278.6	220.4	184.7	168.4	165.3
48°	2122.7	1495.1	893.0	513.3	356.2	268.4	209.2	173.5	160.2	159.2
50°	1944.1	1347.1	753.2	447.0	305.1	225.5	171.4	139.8	126.5	126.5
52.5°	1752.3	1166.5	611.3	374.5	250.0	179.6	132.7	105.1	94.9	92.9
55°	1567.5	985.8	498.0	312.3	205.1	137.8	100.0	78.6	70.4	68.4
57.5°	1393.0	812.3	422.5	261.3	163.3	104.1	70.4	53.1	44.9	42.9
60°	1226.7	667.4	360.2	215.3	128.6	76.5	48.0	31.6	23.5	23.5
62.5°	1057.3	535.8	307.2	176.6	98.0	53.1	25.5	13.3	11.2	11.2
65°	908.3	438.8	256.2	140.8	69.4	30.6	5.1	0.0	0.0	0.0
67.5°	734.8	363.3	215.3	111.2	46.9	10.2	0.0	0.0	0.0	0.0
70°	571.5	298.0	177.6	85.7	25.5	1.0	0.0	0.0	0.0	0.0
72.5°	434.7	241.9	143.9	62.3	9.2	0.0	0.0	0.0	0.0	0.0
75°	319.4	191.9	116.3	41.8	3.1	0.0	0.0	0.0	0.0	0.0
77.5°	234.7	151.0	90.8	26.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	171.4	117.4	68.4	16.3	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	121.4	90.8	52.0	9.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	84.7	71.4	39.8	6.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	60.2	57.1	30.6	5.1	0.0	0.0	0.0	0.0	0.0	0.0
90°	48.0	46.9	24.5	4.1	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	40.8	38.8	18.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0
95°	37.8	32.7	14.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	38.8	30.6	12.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	40.8	28.6	11.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	41.8	26.5	10.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	42.9	25.5	10.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	42.9	24.5	9.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P979138
 CATALOG NUMBER: WPMLD26S-100W-3000K

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	41.8	22.5	8.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	40.8	21.4	7.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	38.8	19.4	6.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	35.7	17.3	5.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	32.7	15.3	5.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	28.6	13.3	4.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	25.5	12.2	4.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	22.5	10.2	4.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	19.4	9.2	4.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	17.3	8.2	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	15.3	7.1	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	13.3	6.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	11.2	5.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	9.2	4.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	8.2	4.1	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	7.1	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	6.1	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	5.1	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	4.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	3.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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

Report Prepared for

Cooper Lighting Solutions

Lumark

Report Number: SP1-2407-168-1

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.

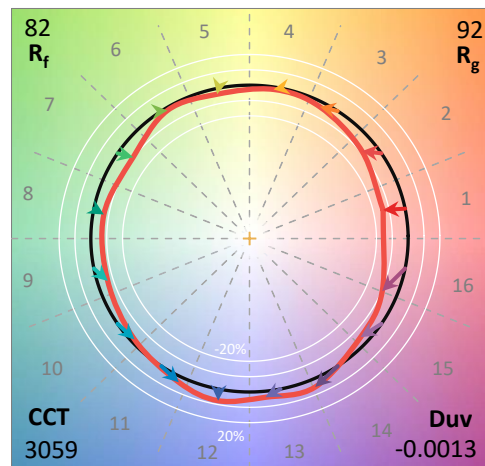
Test Information

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

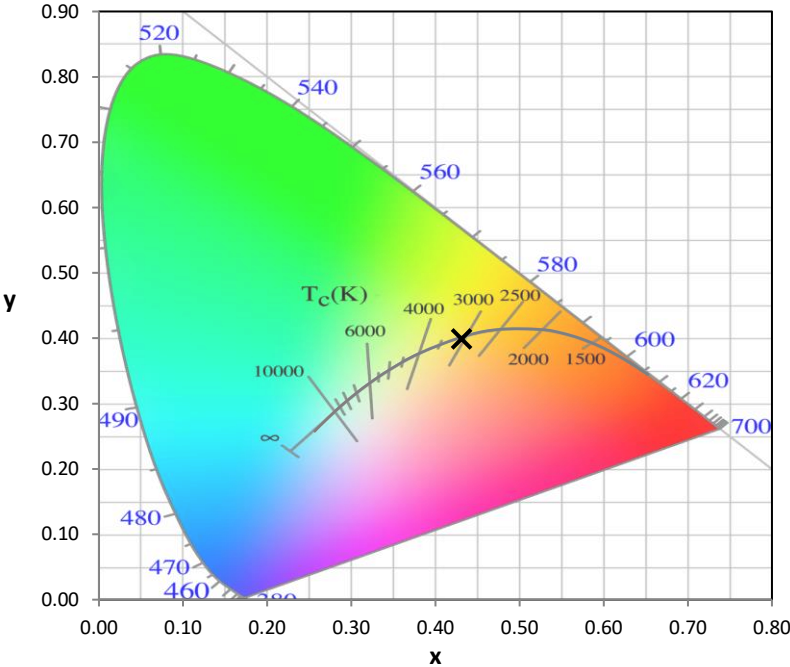
Stabilization Time: 51M
 Operation Time: 1H 51M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2407-168-1

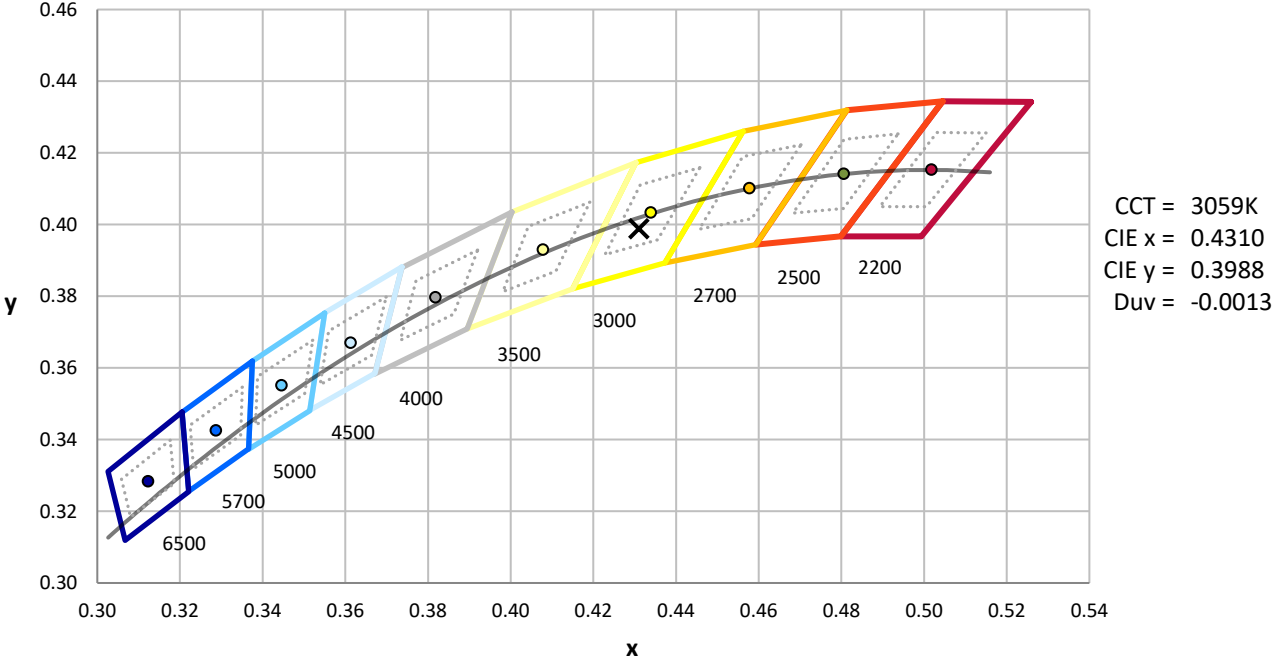
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-168-1

CIE 1931 Chromaticity Diagram



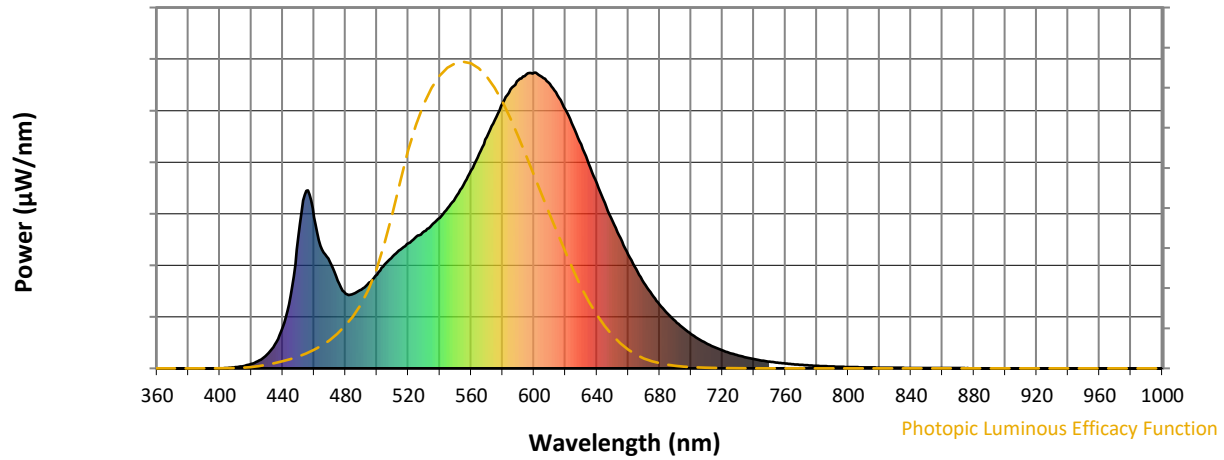
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

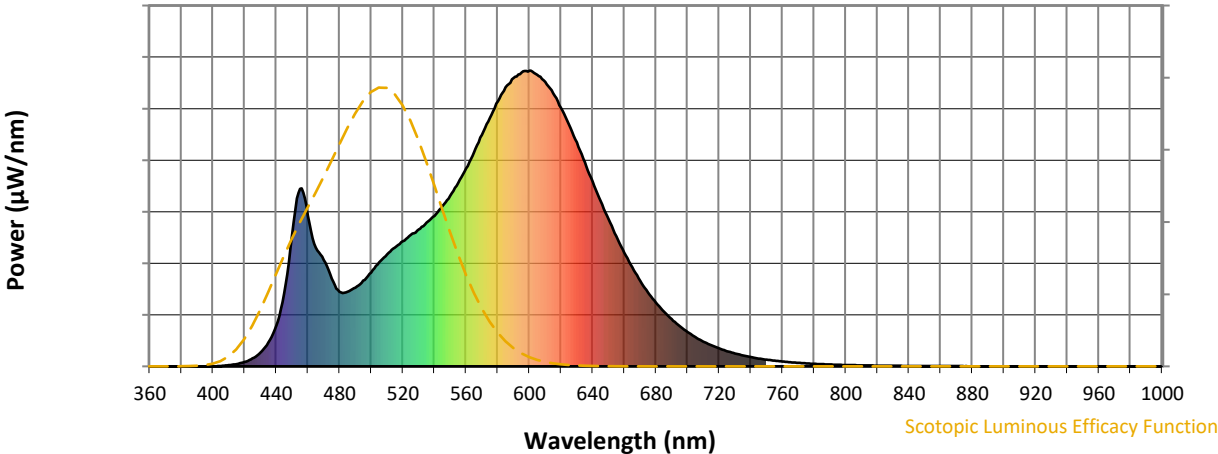


Photopic Lumens: NR

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

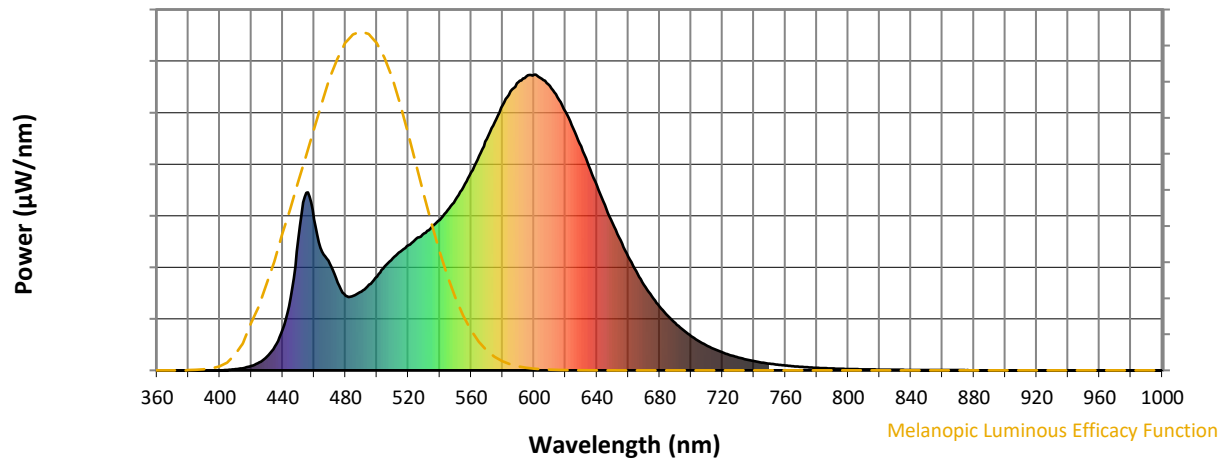


Scotopic Lumens: NR S/P: 1.39

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



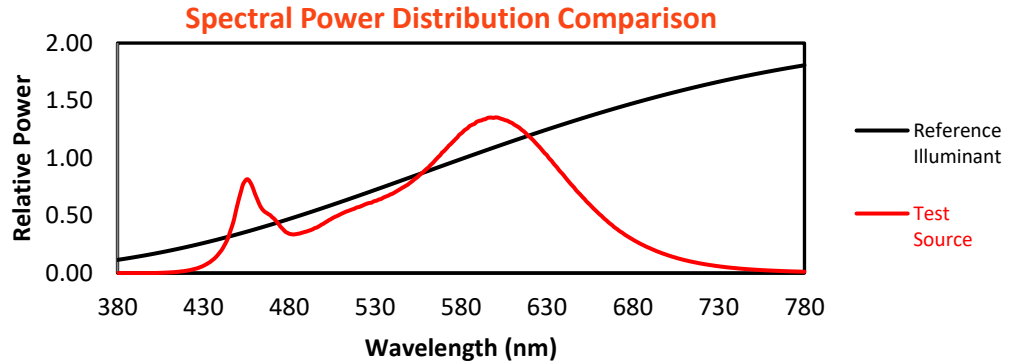
Melanopic Lumens: NR

M/P: 2.77

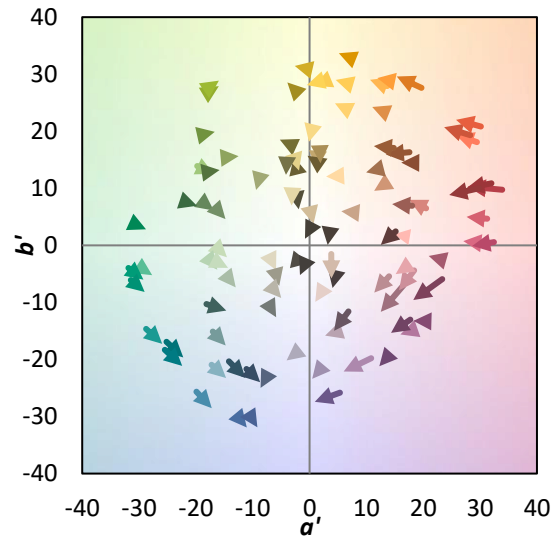
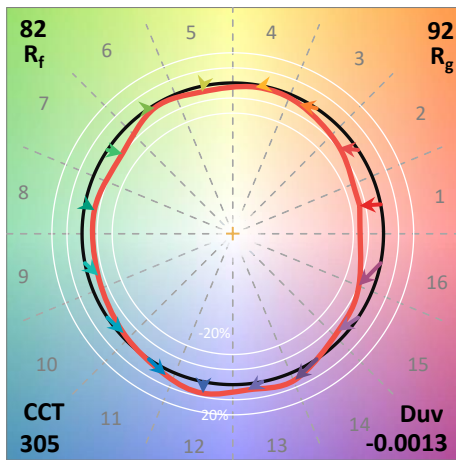
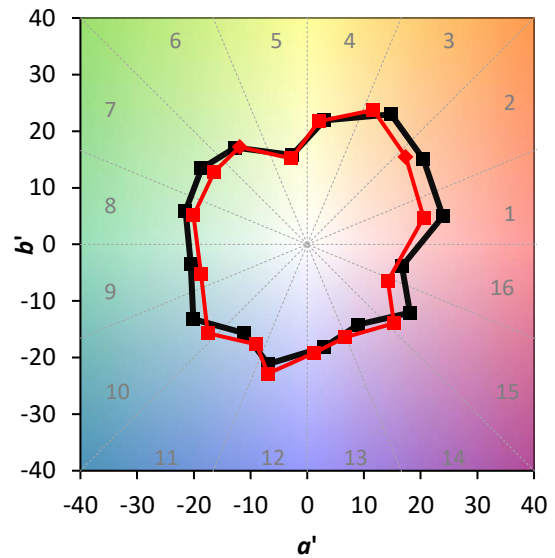
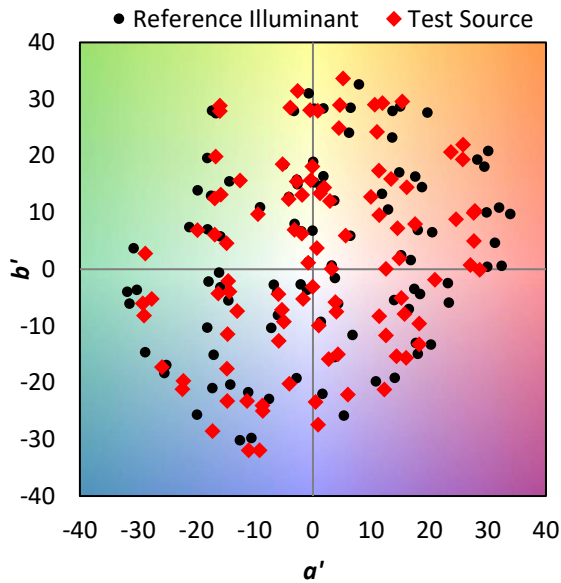
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	266	NR	620	875	NR	750	23	NR	880	0	NR
365	0	NR	495	290	NR	625	818	NR	755	19	NR	885	0	NR
370	0	NR	500	317	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

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

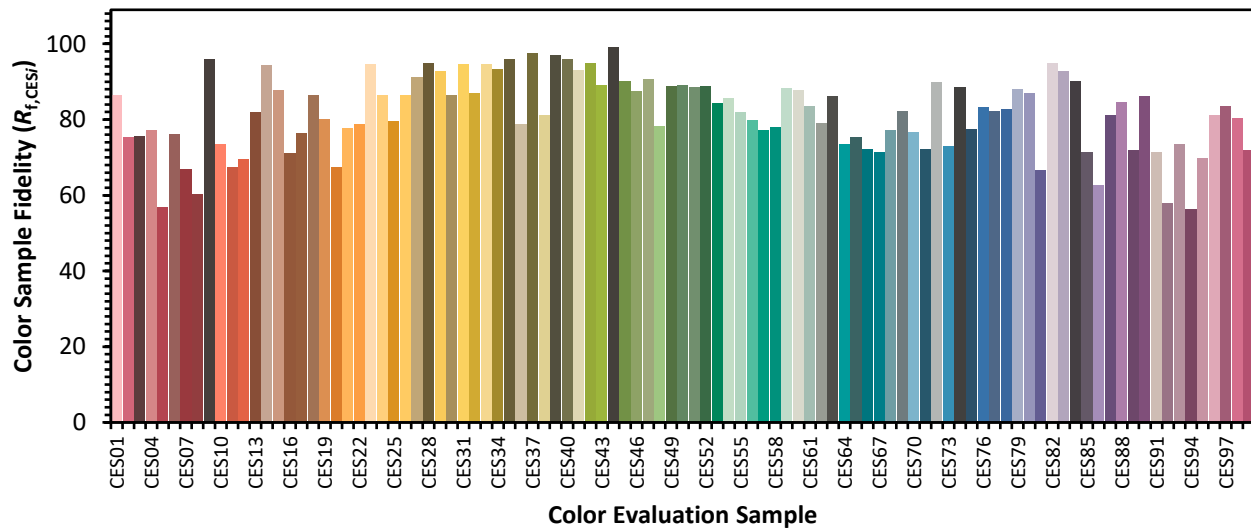


Color Vector Graphics

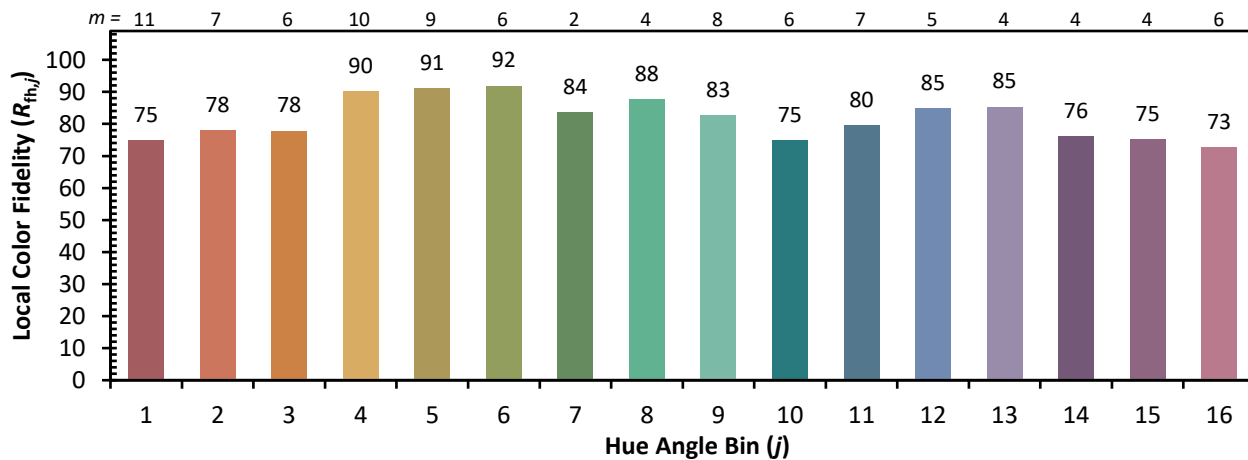
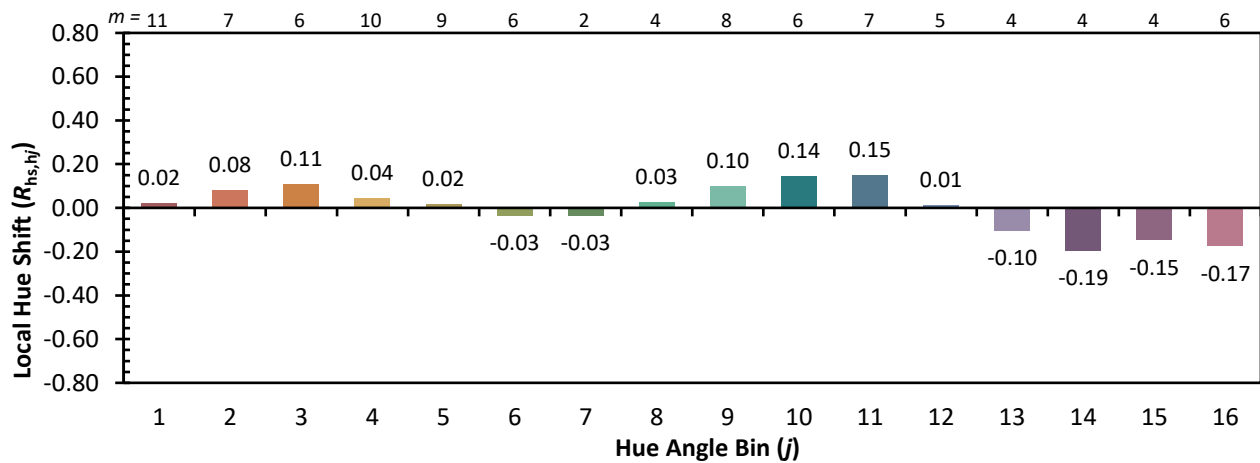
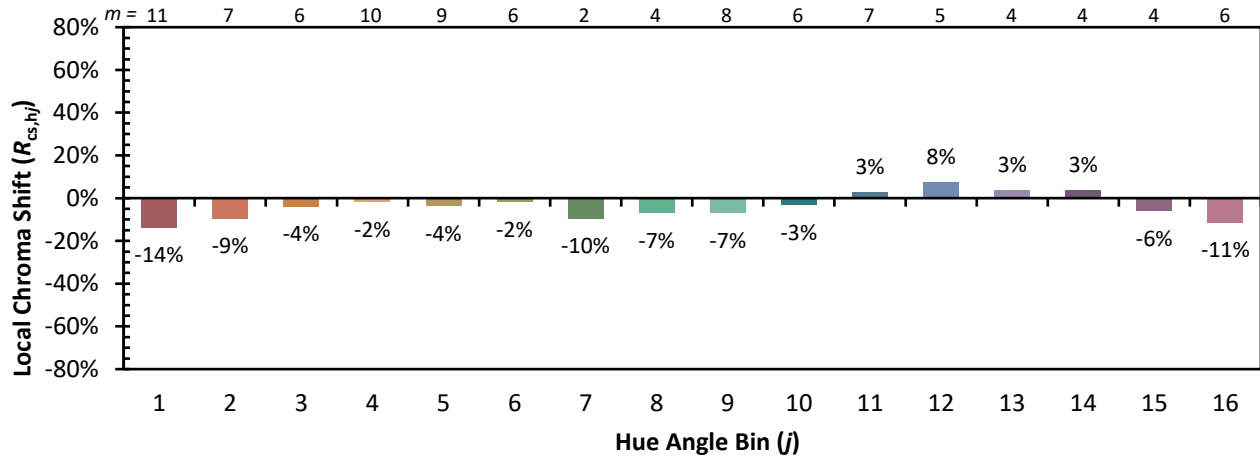


Individual Sample Fidelity Index ($R_{f,i}$)

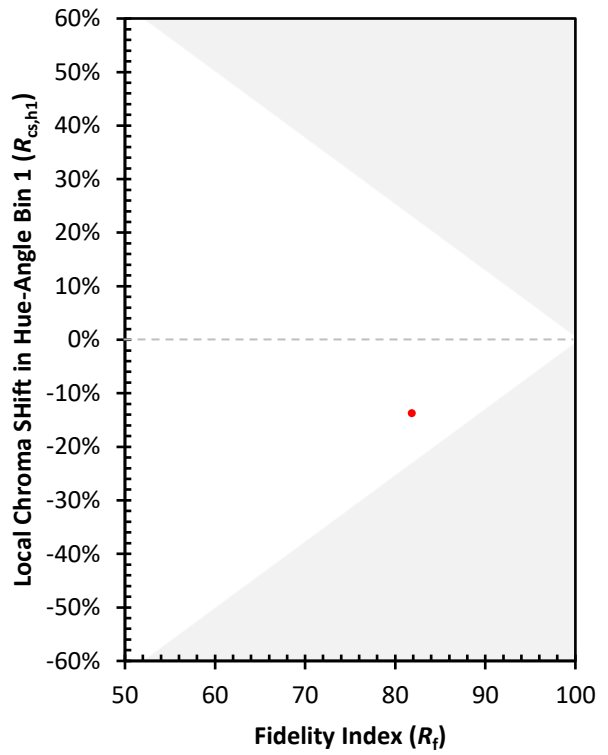
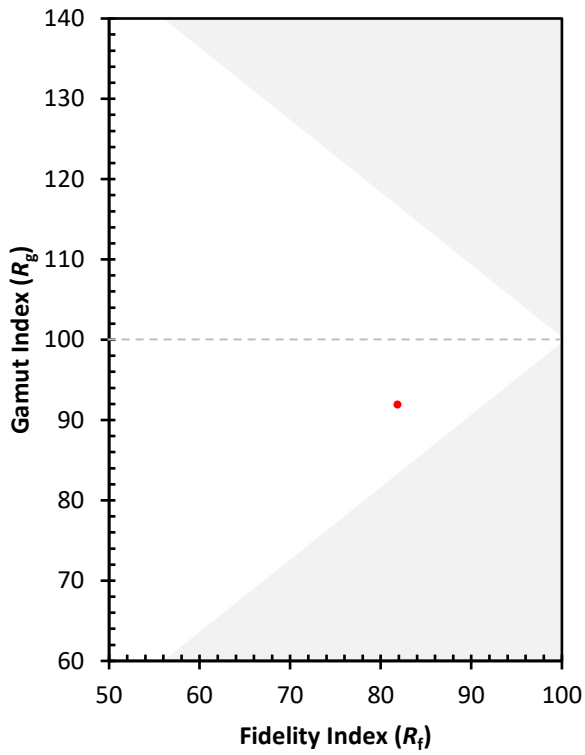
CES01 = 86	CES26 = 86	CES51 = 88	CES76 = 83
CES02 = 63	CES27 = 91	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 95	CES53 = 84	CES78 = 83
CES04 = 71	CES29 = 93	CES54 = 86	CES79 = 88
CES05 = 49	CES30 = 86	CES55 = 82	CES80 = 87
CES06 = 51	CES31 = 95	CES56 = 80	CES81 = 67
CES07 = 42	CES32 = 87	CES57 = 77	CES82 = 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)