

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: P979141

Luminaire Tested: **WPMLED26S-100W-5000K**

Issue Date: 03/31/2025



Test Information

Test Method: LM-79-08
Report Number: P979141
Test Lab: Cooper Lighting Solutions
Issue Date: 03/31/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: WPMLD26S-100W-5000K
Description: LUMARK WALL PACK LED MEDIUM 80CRI CCT AND LUMEN SELECTIVE FIXTURE
OPERATING @100W-5000K
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

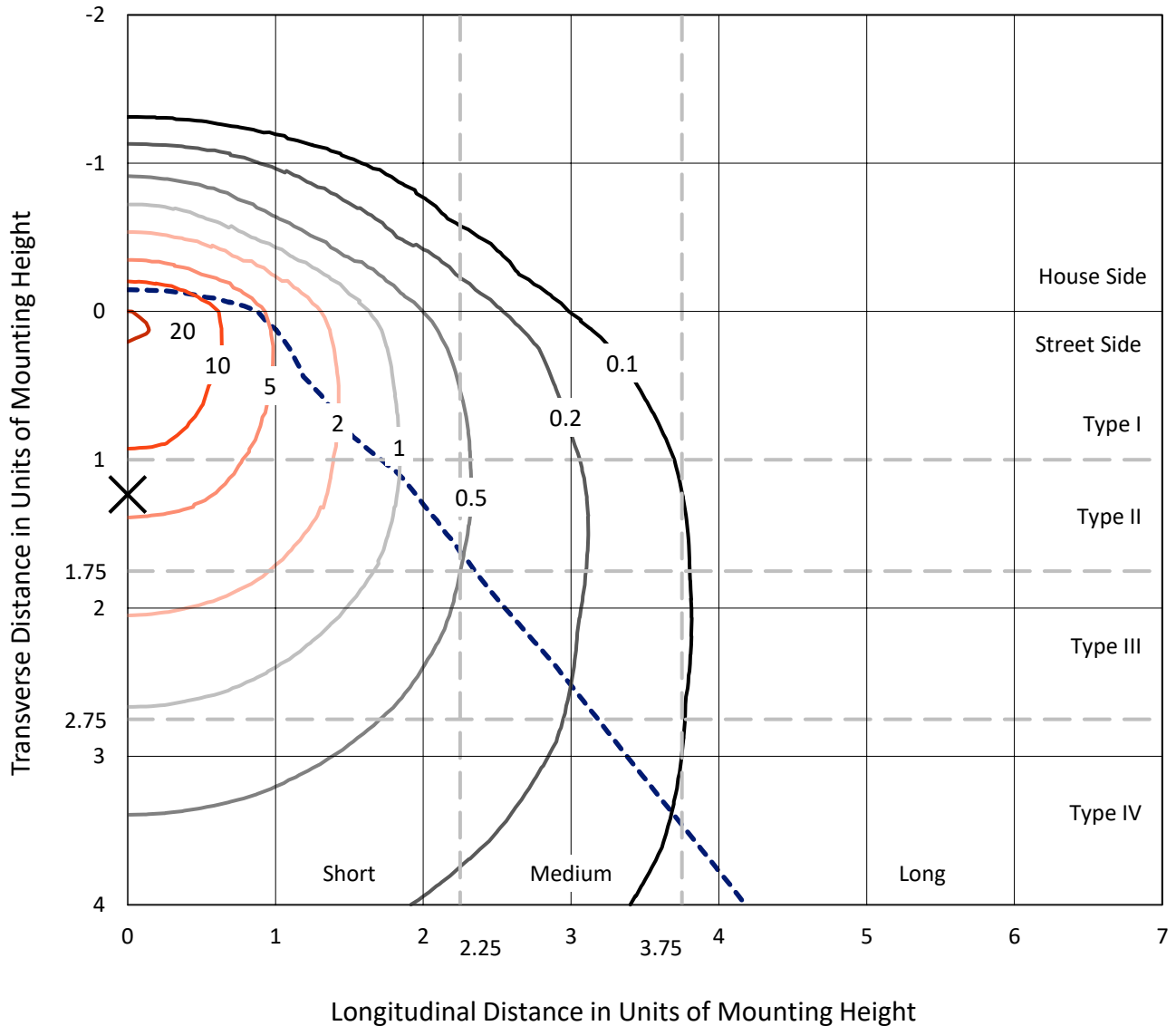
Lumens per Lamp: N/A
Luminaire Lumens: 15064.1 lumens
Efficiency: N/A
Efficacy: 151.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.86' x L: 0.17' x H: 0.58')
IES Classification: Type IV - Short
BUG Rating: B2 - U4 - G5

Input Watts (W): 99.6
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

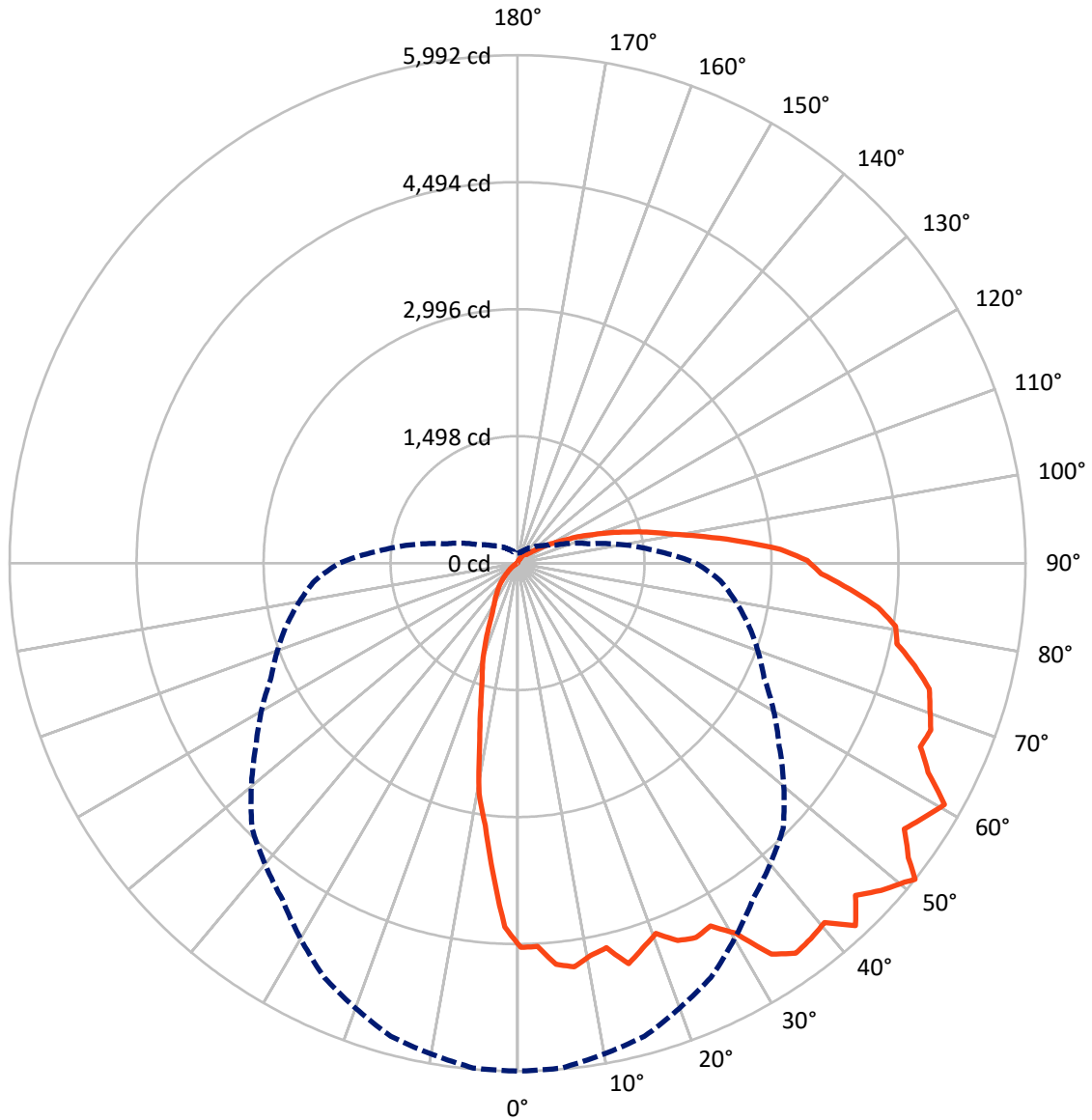
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 20.8 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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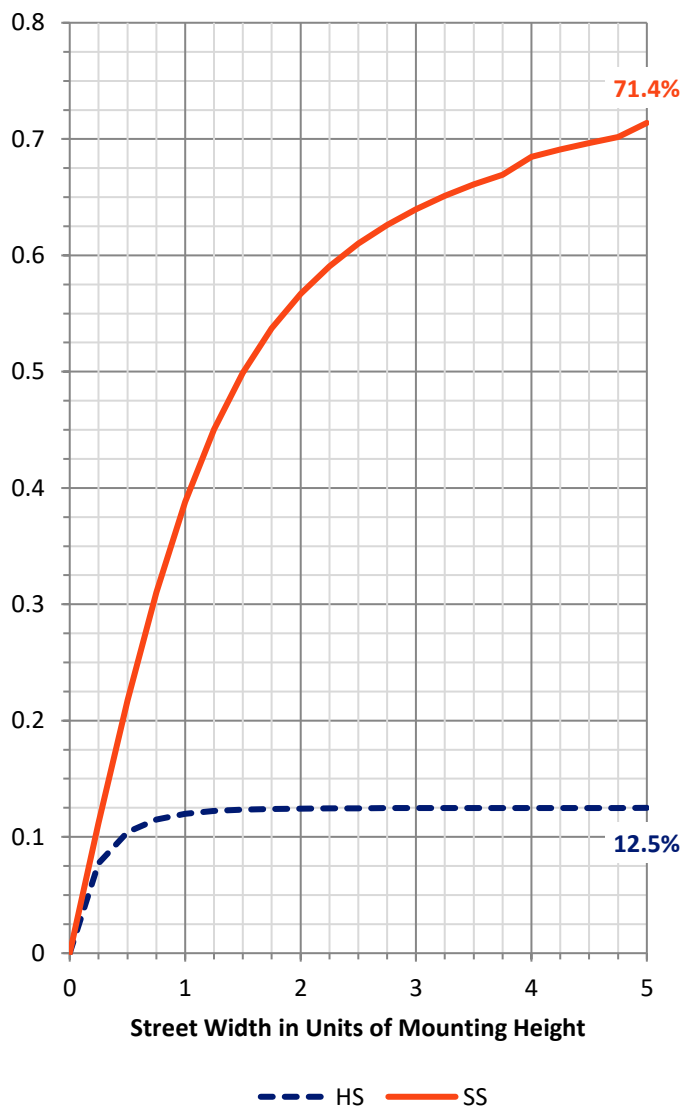
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1902.9	19.7	1922.5
	% Fixture	12.6	0.1	12.8
Street Side	Lumens	11677.4	1464.1	13141.5
	% Fixture	77.5	9.7	87.2
Total	Lumens	13580.3	1483.7	15064.1
	% Fixture	90.2	9.8	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.8	2.7
10°-20°	1036.5	6.9
20°-30°	1442.0	9.6
30°-40°	1772.3	11.8
40°-50°	1978.2	13.1
50°-60°	2027.2	13.5
60°-70°	1933.7	12.8
70°-80°	1695.3	11.3
80°-90°	1289.3	8.6
90°-100°	782.7	5.2
100°-110°	383.0	2.5
110°-120°	175.2	1.2
120°-130°	76.7	0.5
130°-140°	39.2	0.3
140°-150°	19.4	0.1
150°-160°	6.1	0.0
160°-170°	1.3	0.0
170°-180°	0.2	0.0
0°-90°	13580.3	90.2
0°-180°	15064.1	100.0



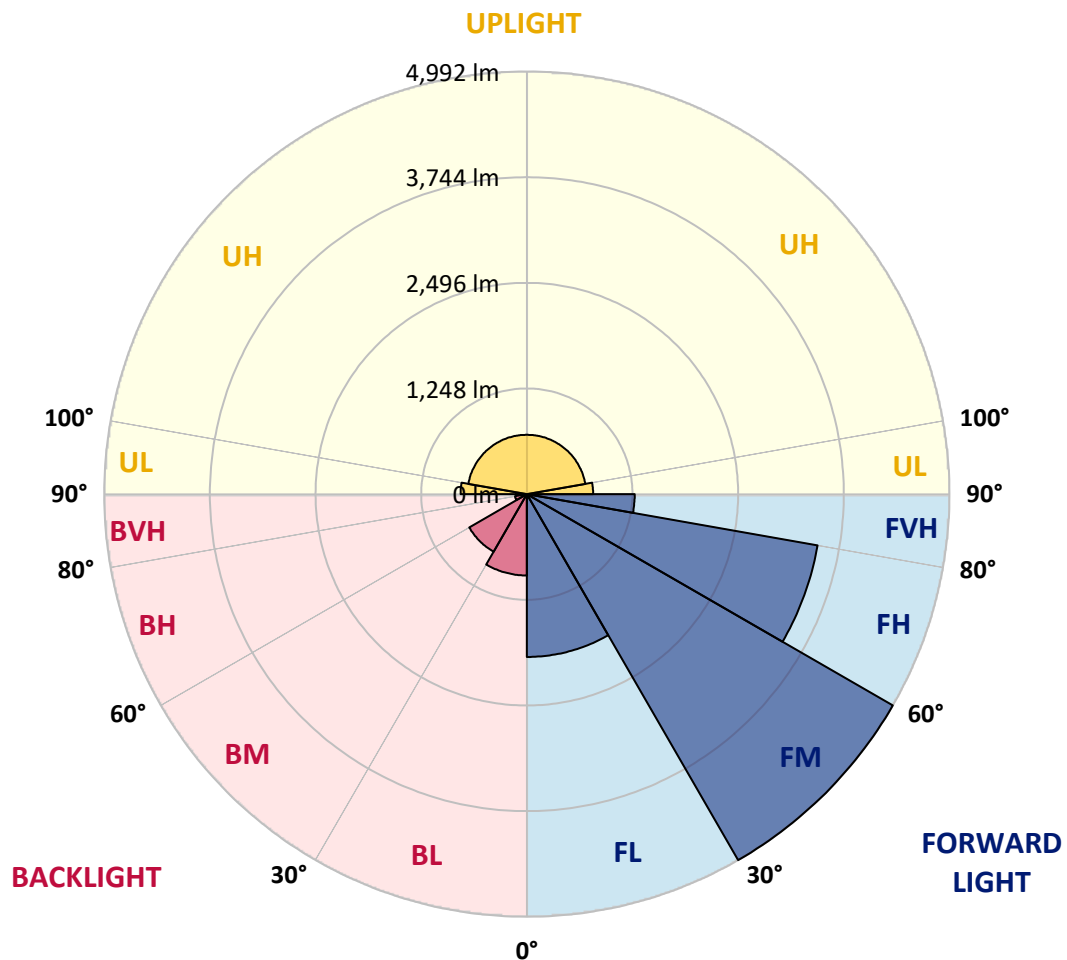
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1923.6	12.8			
FM (30°-60°)	4992.1	33.1			
FH (60°-80°)	3487.7	23.2			G2/5000
FVH (80°-90°)	1274.0	8.5			G5
BL (0°-30°)	960.8	6.4	B2/1000		
BM (30°-60°)	785.5	5.2	B1/1000		
BH (60°-80°)	141.3	0.9	B1/500		G1/500
BVH (80°-90°)	15.3	0.1			G1/100
UL (90°-100°)	782.7	5.2		U4/1000	
UH (100°-180°)	701.0	4.7		U4/1000	

BUG Rating: B2-U4-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4532.5	4532.5	4532.5	4532.5	4532.5	4532.5	4532.5	4532.5	4532.5	4532.5	4532.5
2.5°	4528.4	4526.3	4523.2	4528.4	4535.6	4559.2	4599.4	4604.5	4558.2	4529.4	4527.3
5°	4755.8	4755.8	4744.5	4742.4	4686.9	4613.8	4540.7	4512.9	4586.0	4523.2	4518.1
7.5°	4809.3	4810.4	4809.3	4824.8	4814.5	4751.7	4698.2	4540.7	4519.1	4526.3	4505.7
10°	4708.5	4708.5	4707.4	4742.4	4810.4	4779.5	4773.3	4668.3	4474.8	4521.2	4487.2
12.5°	4656.0	4630.2	4594.2	4548.9	4626.1	4723.9	4756.8	4692.0	4498.5	4489.3	4442.9
15°	4905.0	4889.6	4854.6	4748.6	4583.9	4544.8	4700.2	4696.1	4527.3	4424.4	4382.2
17.5°	4776.4	4790.8	4827.8	4887.5	4809.3	4562.3	4530.4	4613.8	4505.7	4340.0	4300.9
20°	4662.2	4657.0	4626.1	4670.4	4810.4	4736.3	4371.9	4510.9	4425.4	4240.2	4197.0
22.5°	4836.1	4826.8	4692.0	4620.0	4601.4	4732.1	4495.4	4348.3	4349.3	4134.2	4097.1
25°	4893.7	4890.6	4942.1	4885.5	4571.6	4528.4	4567.5	4169.2	4272.1	4013.8	3980.8
27.5°	4846.4	4836.1	4788.7	4824.8	4818.6	4417.2	4466.6	4100.2	4159.9	3893.4	3848.1
30°	5066.6	5049.1	4988.4	4804.2	4688.9	4438.8	4284.4	4154.8	4030.2	3787.4	3720.5
32.5°	5499.9	5485.5	5357.9	4954.4	4640.5	4570.6	4164.0	4186.7	3907.8	3686.5	3584.6
35°	5652.2	5637.8	5473.1	5292.0	4759.9	4399.7	4139.3	4072.4	3760.6	3565.1	3440.5
37.5°	5620.3	5606.9	5511.2	5348.6	5002.8	4396.6	4252.5	3886.2	3613.4	3440.5	3271.7
40°	5575.0	5557.5	5483.4	5301.3	4962.7	4492.3	4048.8	3766.8	3500.2	3292.3	3089.6
42.5°	5845.7	5857.0	5772.6	5305.4	4897.8	4563.4	3981.9	3691.6	3409.6	3116.3	2870.4
45°	5590.5	5590.5	5664.6	5467.0	4941.1	4424.4	3985.0	3665.9	3313.9	2918.7	2647.0
47.5°	5768.5	5765.4	5652.2	5331.1	5029.6	4384.3	4025.1	3487.9	3148.2	2706.7	2420.6
50°	5917.7	5874.5	5696.5	5389.8	4878.3	4412.1	3839.8	3283.1	2918.7	2493.7	2191.1
51°	5991.8	5978.5	5778.8	5393.9	4840.2	4429.6	3768.8	3209.0	2821.0	2403.1	2103.6
52.5°	5771.6	5788.1	5825.1	5462.8	4873.1	4360.6	3699.9	3153.4	2691.3	2287.9	1991.4
55°	5535.9	5520.5	5533.9	5453.6	4958.6	4257.7	3676.2	3060.8	2522.5	2124.2	1821.6
57.5°	5656.3	5637.8	5484.5	5233.3	4996.6	4298.9	3589.8	2896.1	2387.7	1966.7	1654.9
60°	5786.0	5786.0	5691.3	5174.7	4807.3	4345.2	3415.8	2682.0	2228.2	1811.3	1476.9
62.5°	5435.1	5418.6	5377.4	5258.0	4700.2	4235.0	3339.7	2600.7	2054.2	1649.8	1313.2
65°	5223.1	5212.8	5136.6	4927.7	4668.3	4050.8	3271.7	2550.3	1950.3	1486.1	1149.6
67.5°	5256.0	5260.1	5140.7	4822.7	4418.2	3947.9	3097.8	2377.4	1844.3	1336.9	983.9
70°	5161.3	5162.3	5047.1	4750.7	4318.4	3730.8	2920.8	2268.3	1655.9	1189.7	803.8
72.5°	5080.0	5076.9	4981.2	4662.2	4265.9	3616.5	2716.0	2196.3	1523.2	995.2	629.9
75°	4838.1	4829.9	4737.3	4485.1	4087.9	3484.8	2554.4	1946.2	1412.0	808.9	474.4
77.5°	4575.7	4588.1	4477.9	4229.9	3865.6	3281.0	2372.2	1718.7	1244.3	630.9	348.9
80°	4521.2	4520.1	4395.6	4070.4	3701.9	3101.9	2188.0	1531.4	1079.6	469.3	247.0
82.5°	4285.5	4280.3	4169.2	3919.1	3479.6	2889.9	1991.4	1357.5	854.2	337.6	172.9
85°	3931.4	3963.3	3858.4	3581.5	3206.9	2626.4	1799.0	1174.3	682.3	239.8	116.3
87.5°	3583.6	3582.5	3447.7	3206.9	2901.2	2384.6	1581.8	992.1	533.1	164.7	77.2
90°	3417.9	3412.7	3289.2	2979.5	2607.9	2046.0	1347.2	827.5	405.5	111.2	56.6
92.5°	3105.0	3086.5	2935.2	2638.8	2262.1	1743.4	1133.1	670.0	311.8	83.4	48.4
95°	2652.2	2659.4	2564.7	2324.9	1964.7	1488.2	940.7	543.4	246.0	69.0	48.4
97.5°	2231.2	2221.0	2109.8	1900.9	1653.9	1250.4	786.3	430.2	199.7	64.8	49.4
100°	1864.9	1859.7	1758.9	1580.8	1342.0	1025.1	634.0	347.9	165.7	64.8	51.5
102.5°	1612.7	1599.3	1522.1	1361.6	1121.8	801.7	510.5	288.2	140.0	66.9	53.5
105°	1378.1	1373.9	1313.2	1172.2	942.7	674.1	418.9	240.8	122.5	69.0	54.5
107.5°	1157.8	1157.8	1103.3	974.6	787.3	575.3	357.1	203.8	111.2	69.0	54.5



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 CATALOG NUMBER: WPMLED26S-100W-5000K

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	965.4	961.2	903.6	794.5	637.1	468.3	298.5	173.9	103.9	67.9	53.5
112.5°	811.0	804.8	752.3	658.7	524.9	377.7	249.1	152.3	99.8	66.9	52.5
115°	647.3	636.0	599.0	523.8	417.8	311.8	210.0	132.8	94.7	64.8	51.5
117.5°	521.8	519.7	491.9	419.9	337.6	256.3	178.0	117.3	89.5	60.7	48.4
120°	437.4	434.3	404.5	345.8	279.9	214.1	153.3	107.0	83.4	55.6	43.2
122.5°	349.9	343.7	323.2	279.9	231.6	183.2	134.8	96.7	76.2	50.4	39.1
125°	282.0	278.9	259.4	226.4	193.5	159.5	120.4	88.5	69.0	44.3	34.0
127.5°	226.4	222.3	208.9	189.4	166.7	140.0	108.1	81.3	60.7	39.1	29.8
130°	182.2	182.2	173.9	164.7	148.2	125.6	98.8	75.1	53.5	35.0	26.8
132.5°	154.4	153.3	153.3	149.2	135.9	114.2	90.6	70.0	48.4	30.9	23.7
135°	141.0	140.0	144.1	141.0	125.6	102.9	81.3	63.8	42.2	26.8	20.6
137.5°	147.2	146.1	144.1	132.8	113.2	91.6	73.1	56.6	36.0	22.6	17.5
140°	146.1	144.1	135.9	119.4	98.8	80.3	64.8	48.4	29.8	19.6	14.4
142.5°	128.6	127.6	117.3	101.9	84.4	69.0	56.6	41.2	24.7	15.4	12.4
145°	106.0	103.9	95.7	84.4	70.0	58.7	49.4	32.9	19.6	12.4	9.3
147.5°	80.3	80.3	75.1	67.9	58.7	50.4	41.2	25.7	15.4	10.3	8.2
150°	64.8	64.8	60.7	55.6	49.4	43.2	31.9	20.6	11.3	8.2	7.2
152.5°	52.5	52.5	49.4	45.3	41.2	32.9	23.7	14.4	9.3	7.2	6.2
155°	42.2	41.2	39.1	36.0	32.9	25.7	17.5	10.3	7.2	6.2	5.1
157.5°	31.9	32.9	30.9	27.8	23.7	17.5	11.3	8.2	6.2	5.1	4.1
160°	24.7	24.7	22.6	20.6	16.5	11.3	8.2	6.2	5.1	4.1	4.1
162.5°	17.5	17.5	16.5	13.4	10.3	8.2	7.2	5.1	5.1	4.1	4.1
165°	11.3	11.3	10.3	8.2	7.2	6.2	5.1	5.1	4.1	4.1	4.1
167.5°	7.2	6.2	6.2	6.2	5.1	5.1	5.1	5.1	5.1	4.1	4.1
170°	3.1	3.1	3.1	4.1	4.1	4.1	5.1	5.1	4.1	4.1	3.1
172.5°	0.0	1.0	2.1	3.1	4.1	4.1	5.1	5.1	4.1	4.1	3.1
175°	0.0	1.0	2.1	3.1	4.1	4.1	5.1	5.1	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°	4532.5	4532.5	4532.5	4532.5	4532.5	4532.5	4532.5	4532.5	4532.5	4532.5
2.5°	4543.8	4565.4	4548.9	4483.1	4429.6	4350.3	4326.6	4291.6	4298.9	4293.7
5°	4548.9	4503.7	4349.3	4213.4	4071.4	3875.9	3788.4	3732.8	3666.9	3670.0
7.5°	4543.8	4365.8	4134.2	3807.9	3567.1	3390.1	3235.7	3143.1	3109.1	3115.3
10°	4507.8	4216.5	3817.2	3442.6	3170.9	3004.2	2897.1	2793.2	2742.7	2754.1
12.5°	4428.5	4033.3	3506.4	3118.4	2900.2	2662.5	2412.4	2221.0	2160.2	2137.6
15°	4314.3	3798.7	3235.7	2885.8	2546.2	2142.7	1933.8	1802.1	1751.7	1731.1
17.5°	4167.1	3567.1	2994.9	2589.4	2099.5	1791.8	1603.5	1489.2	1436.7	1422.3
20°	4026.1	3310.8	2770.5	2223.0	1763.0	1503.6	1340.0	1262.8	1230.9	1227.8
22.5°	3869.7	3084.4	2524.6	1876.2	1503.6	1283.4	1157.8	1063.1	1019.9	1005.5
25°	3711.2	2880.7	2244.6	1612.7	1289.6	1111.5	969.5	859.4	806.9	800.7
27.5°	3533.1	2672.8	1952.3	1387.3	1119.7	924.2	777.0	701.9	663.8	655.6
30°	3351.0	2477.2	1682.7	1211.3	958.2	763.6	653.5	592.8	566.0	560.9
32.5°	3180.1	2280.6	1470.7	1054.9	808.9	648.4	560.9	519.7	495.0	495.0
35°	2993.9	2046.0	1285.4	916.0	679.3	553.7	493.0	455.9	432.3	429.2
37.5°	2794.2	1828.8	1119.7	777.0	582.5	485.8	432.3	398.3	383.9	378.7
40°	2587.3	1609.6	963.3	665.9	506.4	428.1	380.8	344.8	326.2	327.3
42.5°	2360.9	1411.0	835.7	568.1	444.6	375.6	327.3	288.2	270.7	270.7
45°	2134.5	1219.6	729.7	486.8	385.9	322.1	271.7	233.6	216.1	215.1
47.5°	1922.5	1062.1	622.6	425.0	337.6	271.7	219.2	185.3	169.8	168.8
50°	1713.6	922.1	534.1	374.6	288.2	223.3	175.0	146.1	132.8	132.8
51°	1640.5	874.8	503.3	357.1	270.7	203.8	158.5	130.7	120.4	119.4
52.5°	1541.7	794.5	459.0	332.4	243.9	180.1	136.9	111.2	101.9	99.8
55°	1369.8	681.3	402.4	288.2	201.7	144.1	105.0	85.4	73.1	72.0
57.5°	1211.3	587.7	360.2	249.1	166.7	110.1	76.2	58.7	49.4	48.4
60°	1046.7	503.3	321.1	212.0	133.8	82.3	52.5	37.1	30.9	29.8
62.5°	890.2	428.1	284.1	178.0	103.9	58.7	29.8	17.5	16.5	16.5
65°	755.4	370.5	248.0	148.2	77.2	36.0	9.3	4.1	3.1	1.0
67.5°	618.5	319.0	213.0	119.4	53.5	15.4	0.0	0.0	0.0	0.0
70°	494.0	273.8	180.1	94.7	34.0	3.1	0.0	0.0	0.0	0.0
72.5°	384.9	229.5	151.3	71.0	18.5	0.0	0.0	0.0	0.0	0.0
75°	295.4	191.4	123.5	52.5	5.1	0.0	0.0	0.0	0.0	0.0
77.5°	226.4	156.4	99.8	36.0	2.1	0.0	0.0	0.0	0.0	0.0
80°	168.8	125.6	77.2	24.7	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	125.6	99.8	58.7	17.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	92.6	79.2	46.3	12.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	66.9	63.8	37.1	9.3	0.0	0.0	0.0	0.0	0.0	0.0
90°	54.5	52.5	29.8	6.2	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	47.3	44.3	24.7	5.1	0.0	0.0	0.0	0.0	0.0	0.0
95°	44.3	38.1	20.6	4.1	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	43.2	34.0	17.5	3.1	0.0	0.0	0.0	0.0	0.0	0.0
100°	43.2	30.9	14.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	43.2	27.8	12.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0
105°	44.3	25.7	11.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	43.2	23.7	9.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P979141
 CATALOG NUMBER: WPMLD26S-100W-5000K

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	42.2	21.6	7.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	41.2	20.6	6.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	39.1	18.5	5.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	37.1	16.5	5.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	32.9	14.4	4.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	28.8	12.4	4.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	25.7	11.3	4.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	22.6	9.3	4.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	20.6	8.2	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	17.5	8.2	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	15.4	7.2	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	13.4	6.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	11.3	5.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	9.3	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	7.2	4.1	1.0	0.0	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°	5.1	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	4.1	2.1	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

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



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

Report Prepared for

Cooper Lighting Solutions

Lumark

Report Number: SP1-2407-168-4

Test Date: 08/08/2024

Luminaire Tested: LSDL-92S-100W 5000k

Data in this report applies to families of products including LSDL-92S-100W 5000k.

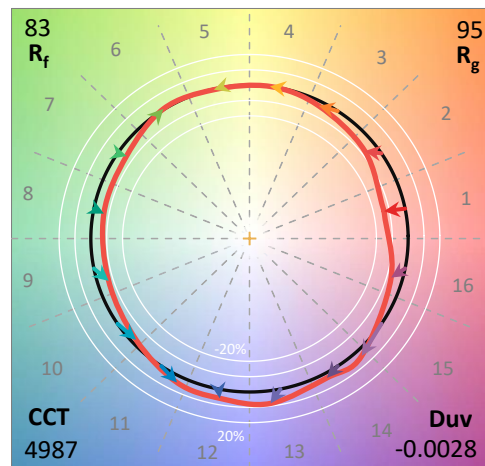
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-168-4
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/12/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Lumark
 Catalog Number: **LSDL-92S-100W 5000k**
 Description: Lumark Wallpack 100W

Spectral Parameters

CCT (K): 4987
 CIE u': 0.2135
 CIE v': 0.4819
 Duv: -0.0028
 CIE x: 0.3449
 CIE y: 0.3461
 CIE z: 0.3090
 Peak Wavelength (nm): 453
 Dominant Wavelength (nm): 576
 Purity: 7.317109
 Rf: 82.9
 Rg: 94.6

CRI (Ra):	83.4		
R1:	82.5	R9:	6.6
R2:	92.4	R10:	80.3
R3:	94.5	R11:	78.9
R4:	79.9	R12:	59.3
R5:	82.3	R13:	85.9
R6:	86.3	R14:	97.8
R7:	84.5	R15:	77.3
R8:	64.7		



Test Conditions

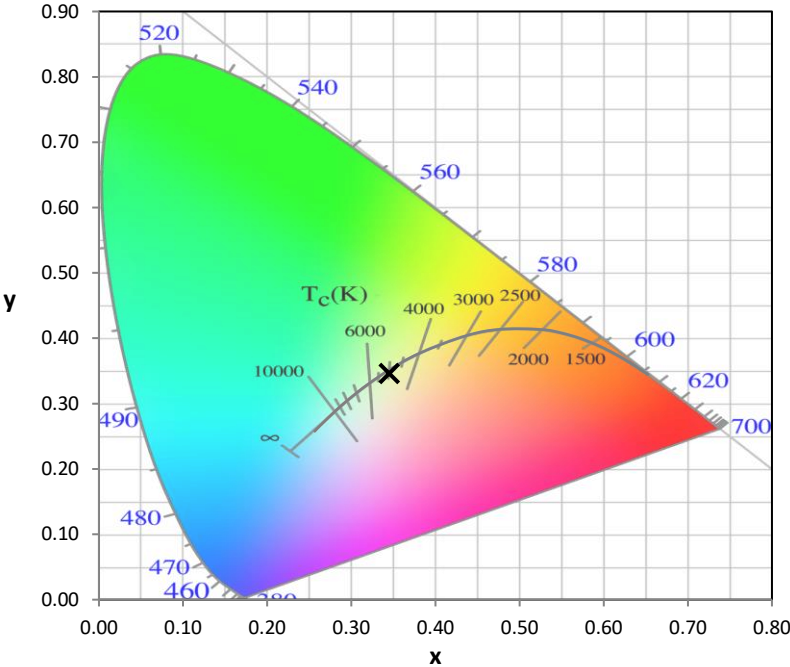
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2407-168-4

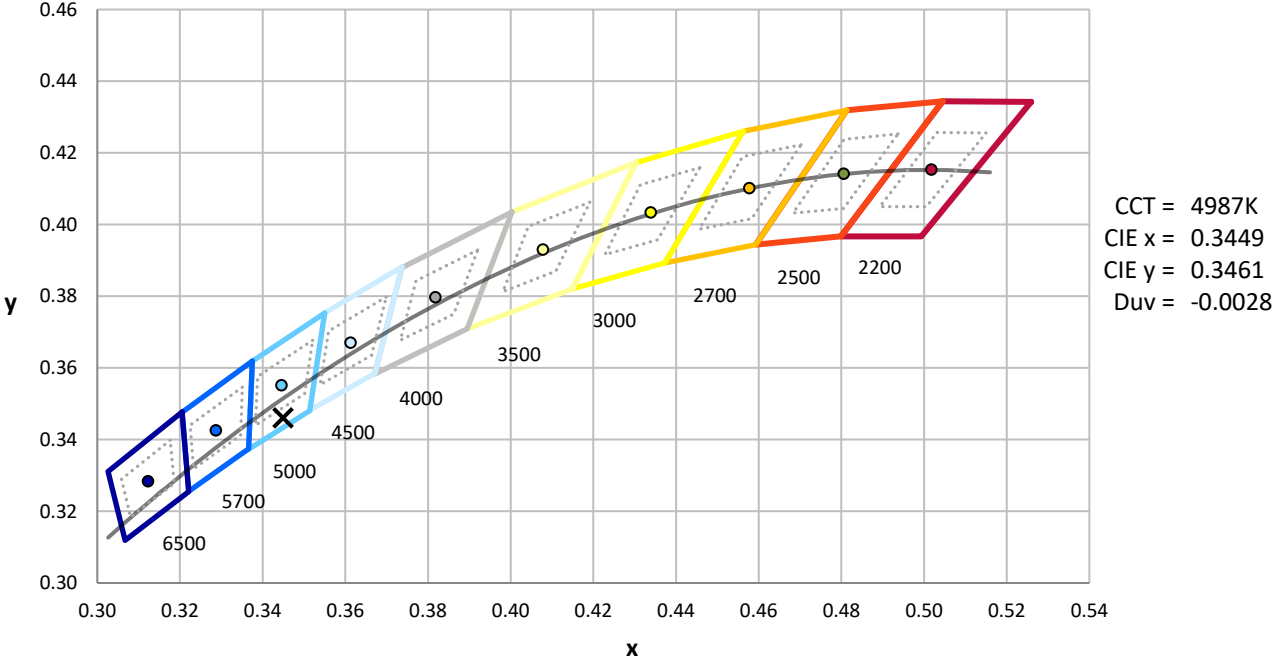
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



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

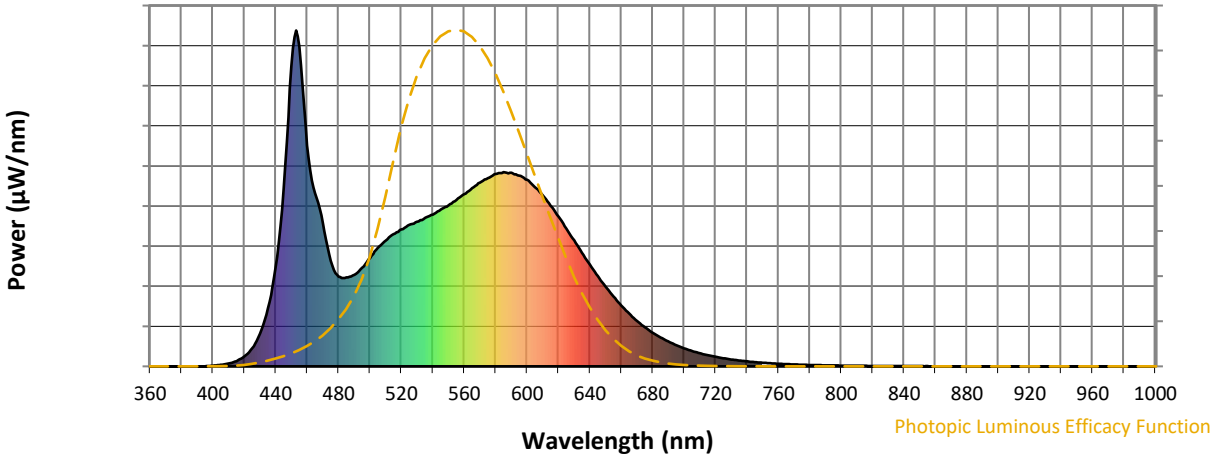


CCT = 4987K
 CIE x = 0.3449
 CIE y = 0.3461
 Duv = -0.0028

Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-168-4

Photopic Flux vs. Wavelength

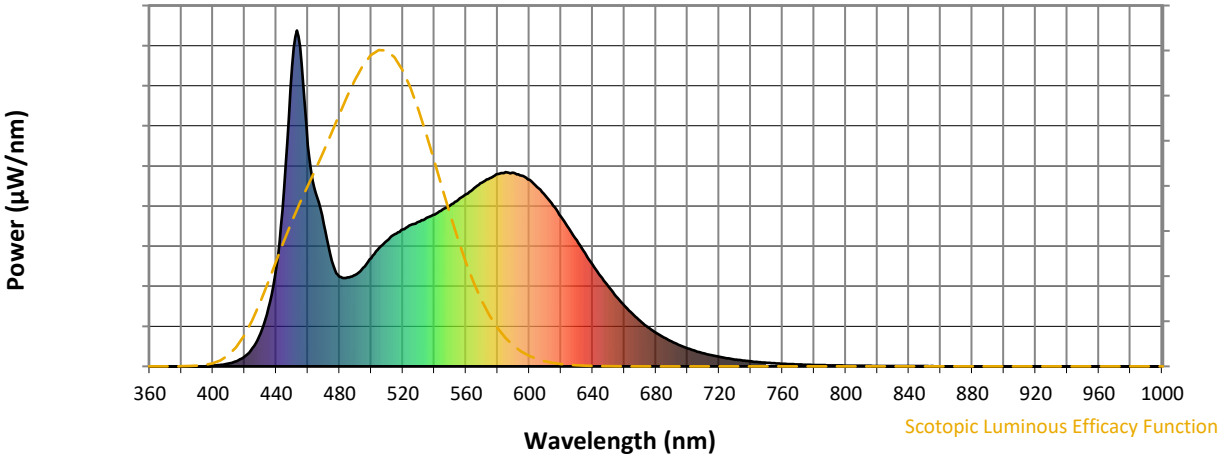


Photopic Lumens: NR

λ (nm)	Power W [^] /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	273	NR	620	446	NR	750	11	NR	880	0	NR
365	0	NR	495	294	NR	625	410	NR	755	9	NR	885	0	NR
370	0	NR	500	322	NR	630	376	NR	760	8	NR	890	0	NR
375	0	NR	505	352	NR	635	338	NR	765	7	NR	895	0	NR
380	0	NR	510	374	NR	640	303	NR	770	6	NR	900	0	NR
385	0	NR	515	393	NR	645	269	NR	775	5	NR	905	0	NR
390	0	NR	520	408	NR	650	237	NR	780	4	NR	910	0	NR
395	0	NR	525	421	NR	655	208	NR	785	4	NR	915	0	NR
400	2	NR	530	430	NR	660	181	NR	790	3	NR	920	0	NR
405	5	NR	535	442	NR	665	157	NR	795	3	NR	925	0	NR
410	9	NR	540	451	NR	670	135	NR	800	2	NR	930	0	NR
415	16	NR	545	467	NR	675	116	NR	805	2	NR	935	0	NR
420	29	NR	550	480	NR	680	100	NR	810	2	NR	940	0	NR
425	54	NR	555	495	NR	685	86	NR	815	2	NR	945	0	NR
430	98	NR	560	513	NR	690	74	NR	820	1	NR	950	0	NR
435	174	NR	565	530	NR	695	63	NR	825	1	NR	955	0	NR
440	296	NR	570	546	NR	700	54	NR	830	1	NR	960	0	NR
445	529	NR	575	561	NR	705	46	NR	835	1	NR	965	0	NR
450	894	NR	580	572	NR	710	39	NR	840	1	NR	970	0	NR
455	952	NR	585	578	NR	715	33	NR	845	1	NR	975	0	NR
460	658	NR	590	576	NR	720	28	NR	850	1	NR	980	0	NR
465	516	NR	595	568	NR	725	24	NR	855	1	NR	985	0	NR
470	424	NR	600	555	NR	730	21	NR	860	0	NR	990	0	NR
475	314	NR	605	534	NR	735	17	NR	865	0	NR	995	0	NR
480	267	NR	610	509	NR	740	15	NR	870	0	NR	1000	0	NR
485	265	NR	615	479	NR	745	13	NR	875	0	NR			

REPORT NUMBER: SP1-2407-168-4

Scotopic Flux vs. Wavelength



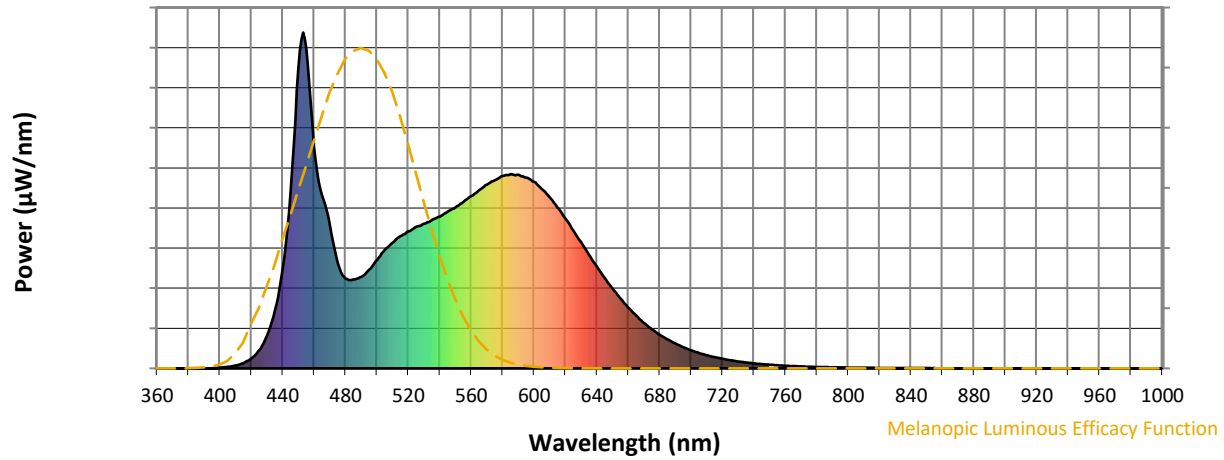
Scotopic Lumens: NR

S/P: 2

λ (nm)	Power W [^] /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	273	NR	620	446	NR	750	11	NR	880	0	NR
365	0	NR	495	294	NR	625	410	NR	755	9	NR	885	0	NR
370	0	NR	500	322	NR	630	376	NR	760	8	NR	890	0	NR
375	0	NR	505	352	NR	635	338	NR	765	7	NR	895	0	NR
380	0	NR	510	374	NR	640	303	NR	770	6	NR	900	0	NR
385	0	NR	515	393	NR	645	269	NR	775	5	NR	905	0	NR
390	0	NR	520	408	NR	650	237	NR	780	4	NR	910	0	NR
395	0	NR	525	421	NR	655	208	NR	785	4	NR	915	0	NR
400	2	NR	530	430	NR	660	181	NR	790	3	NR	920	0	NR
405	5	NR	535	442	NR	665	157	NR	795	3	NR	925	0	NR
410	9	NR	540	451	NR	670	135	NR	800	2	NR	930	0	NR
415	16	NR	545	467	NR	675	116	NR	805	2	NR	935	0	NR
420	29	NR	550	480	NR	680	100	NR	810	2	NR	940	0	NR
425	54	NR	555	495	NR	685	86	NR	815	2	NR	945	0	NR
430	98	NR	560	513	NR	690	74	NR	820	1	NR	950	0	NR
435	174	NR	565	530	NR	695	63	NR	825	1	NR	955	0	NR
440	296	NR	570	546	NR	700	54	NR	830	1	NR	960	0	NR
445	529	NR	575	561	NR	705	46	NR	835	1	NR	965	0	NR
450	894	NR	580	572	NR	710	39	NR	840	1	NR	970	0	NR
455	952	NR	585	578	NR	715	33	NR	845	1	NR	975	0	NR
460	658	NR	590	576	NR	720	28	NR	850	1	NR	980	0	NR
465	516	NR	595	568	NR	725	24	NR	855	1	NR	985	0	NR
470	424	NR	600	555	NR	730	21	NR	860	0	NR	990	0	NR
475	314	NR	605	534	NR	735	17	NR	865	0	NR	995	0	NR
480	267	NR	610	509	NR	740	15	NR	870	0	NR	1000	0	NR
485	265	NR	615	479	NR	745	13	NR	875	0	NR			

REPORT NUMBER: SP1-2407-168-4

Melanopic Flux vs. Wavelength



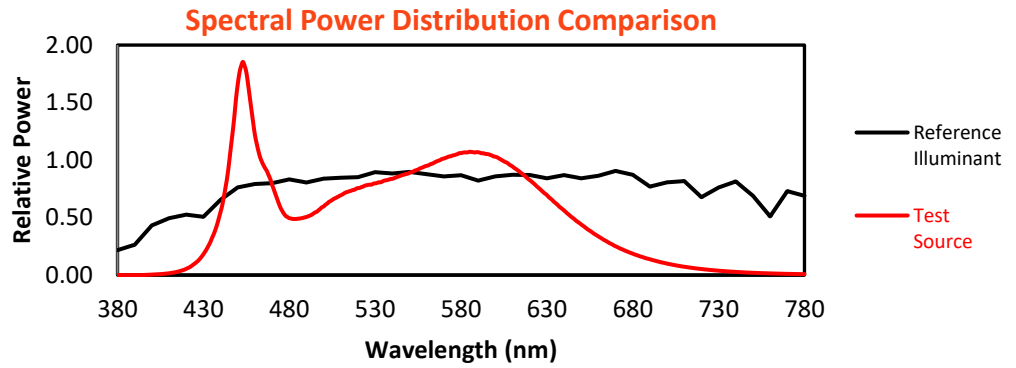
Melanopic Lumens: NR

M/P: 4.35

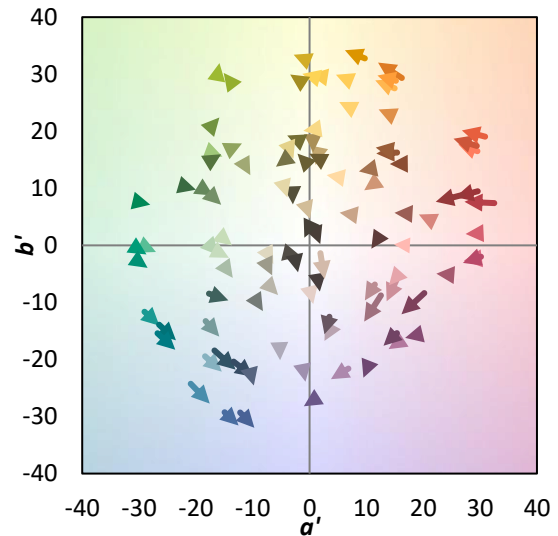
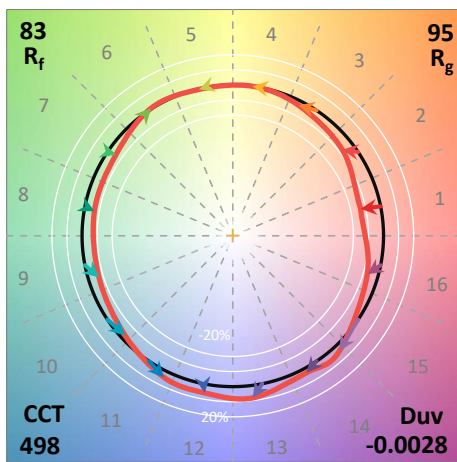
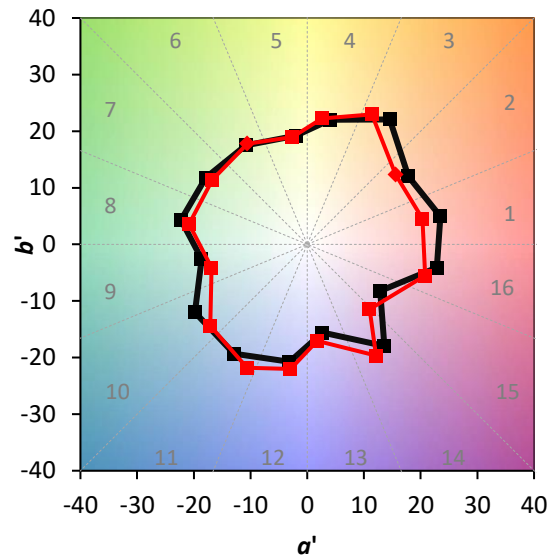
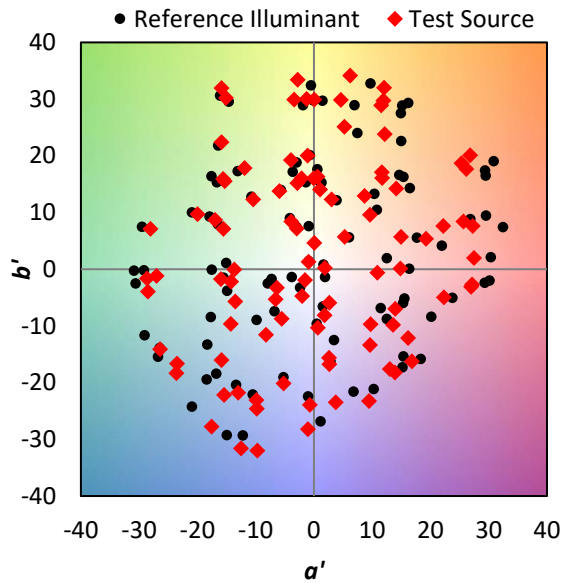
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	273	NR	620	446	NR	750	11	NR	880	0	NR
365	0	NR	495	294	NR	625	410	NR	755	9	NR	885	0	NR
370	0	NR	500	322	NR	630	376	NR	760	8	NR	890	0	NR
375	0	NR	505	352	NR	635	338	NR	765	7	NR	895	0	NR
380	0	NR	510	374	NR	640	303	NR	770	6	NR	900	0	NR
385	0	NR	515	393	NR	645	269	NR	775	5	NR	905	0	NR
390	0	NR	520	408	NR	650	237	NR	780	4	NR	910	0	NR
395	0	NR	525	421	NR	655	208	NR	785	4	NR	915	0	NR
400	2	NR	530	430	NR	660	181	NR	790	3	NR	920	0	NR
405	5	NR	535	442	NR	665	157	NR	795	3	NR	925	0	NR
410	9	NR	540	451	NR	670	135	NR	800	2	NR	930	0	NR
415	16	NR	545	467	NR	675	116	NR	805	2	NR	935	0	NR
420	29	NR	550	480	NR	680	100	NR	810	2	NR	940	0	NR
425	54	NR	555	495	NR	685	86	NR	815	2	NR	945	0	NR
430	98	NR	560	513	NR	690	74	NR	820	1	NR	950	0	NR
435	174	NR	565	530	NR	695	63	NR	825	1	NR	955	0	NR
440	296	NR	570	546	NR	700	54	NR	830	1	NR	960	0	NR
445	529	NR	575	561	NR	705	46	NR	835	1	NR	965	0	NR
450	894	NR	580	572	NR	710	39	NR	840	1	NR	970	0	NR
455	952	NR	585	578	NR	715	33	NR	845	1	NR	975	0	NR
460	658	NR	590	576	NR	720	28	NR	850	1	NR	980	0	NR
465	516	NR	595	568	NR	725	24	NR	855	1	NR	985	0	NR
470	424	NR	600	555	NR	730	21	NR	860	0	NR	990	0	NR
475	314	NR	605	534	NR	735	17	NR	865	0	NR	995	0	NR
480	267	NR	610	509	NR	740	15	NR	870	0	NR	1000	0	NR
485	265	NR	615	479	NR	745	13	NR	875	0	NR			

Summary

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

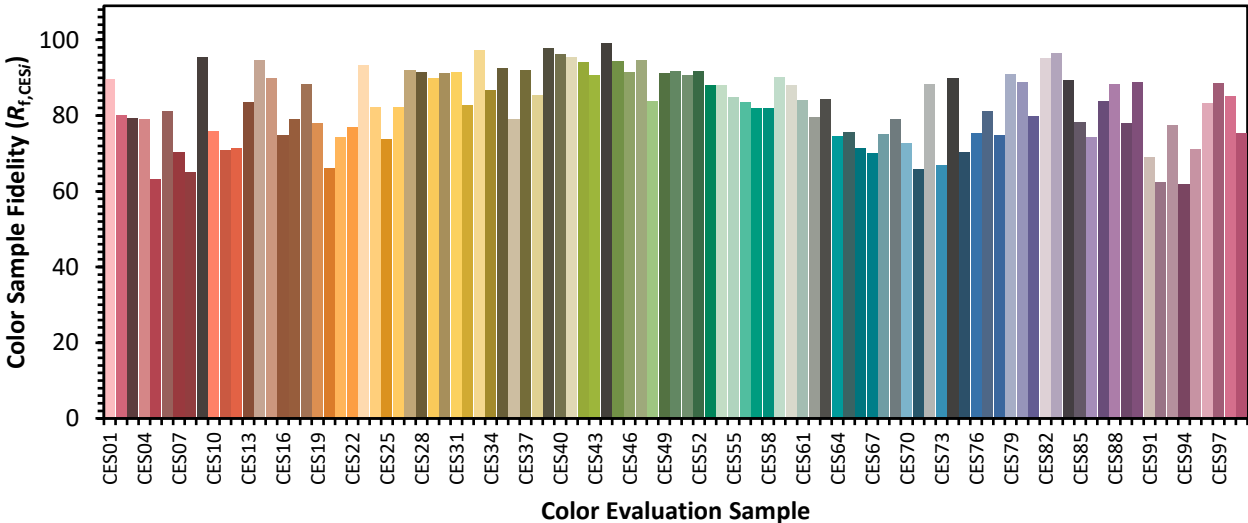


Color Vector Graphics

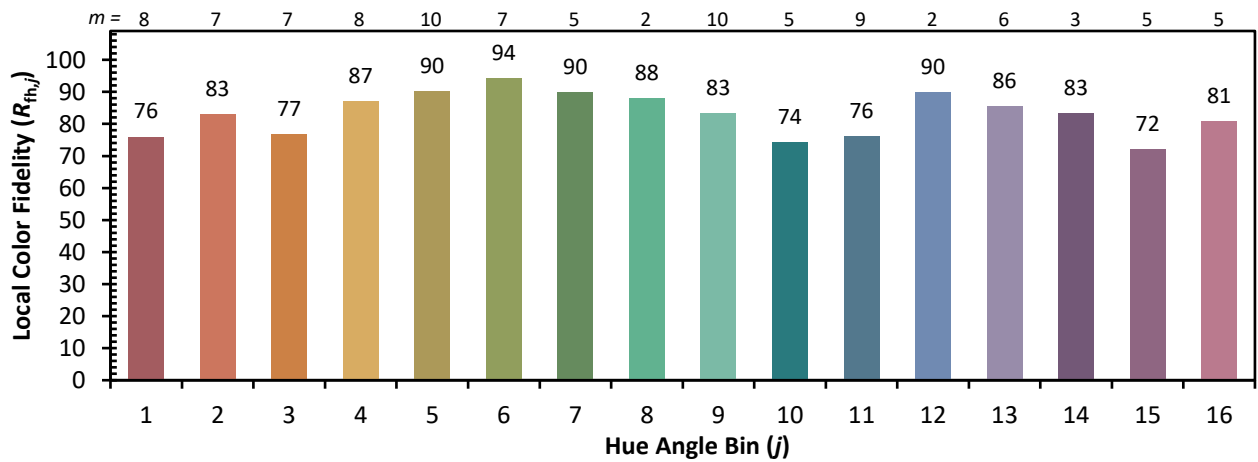
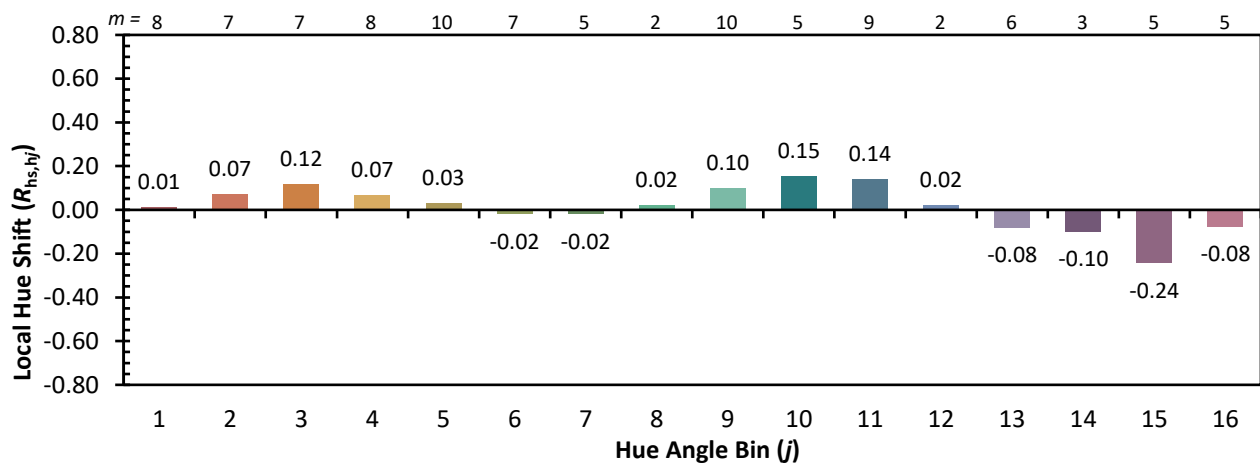
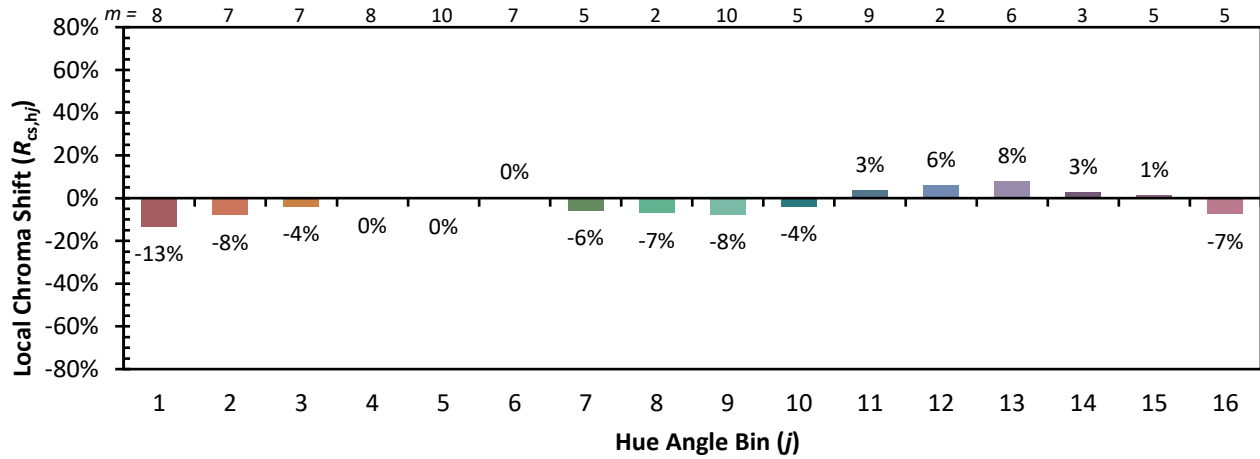


Individual Sample Fidelity Index ($R_{f,i}$)

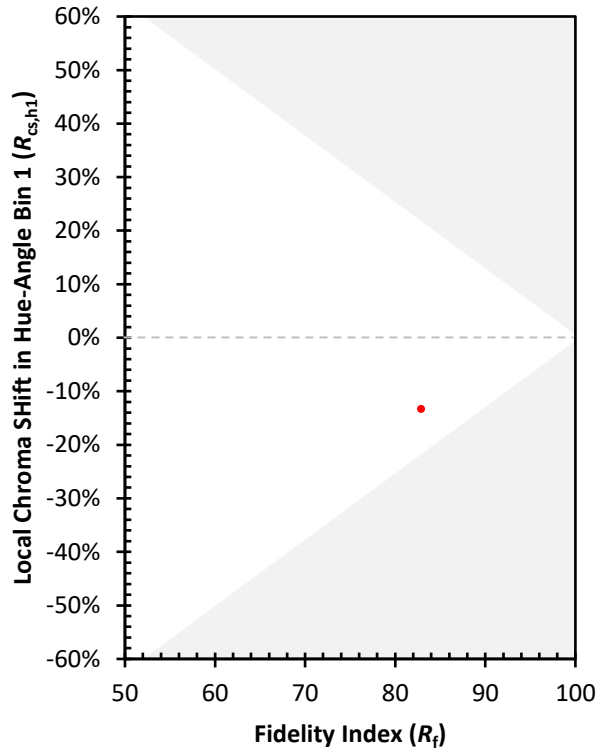
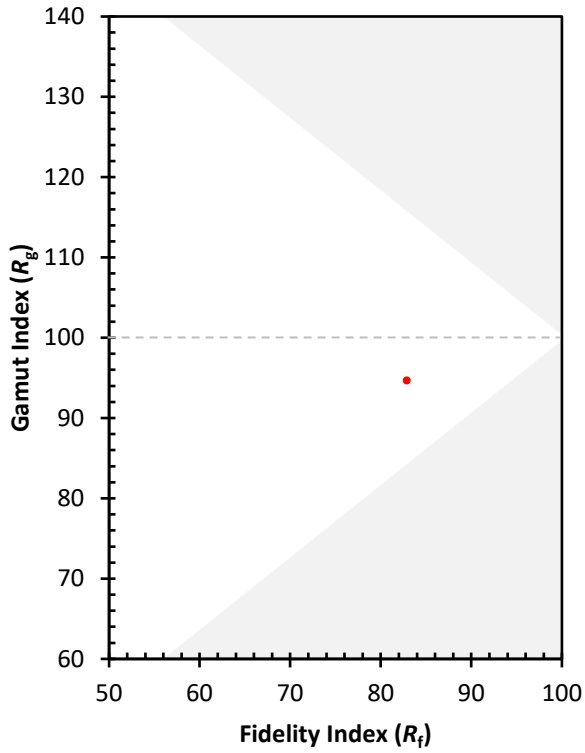
CES01 = 85	CES26 = 82	CES51 = 91	CES76 = 75
CES02 = 60	CES27 = 92	CES52 = 92	CES77 = 81
CES03 = 30	CES28 = 92	CES53 = 88	CES78 = 75
CES04 = 69	CES29 = 90	CES54 = 88	CES79 = 91
CES05 = 47	CES30 = 91	CES55 = 85	CES80 = 89
CES06 = 50	CES31 = 91	CES56 = 84	CES81 = 80
CES07 = 40	CES32 = 83	CES57 = 82	CES82 = 95
CES08 = 39	CES33 = 97	CES58 = 82	CES83 = 96
CES09 = 29	CES34 = 87	CES59 = 90	CES84 = 89
CES10 = 73	CES35 = 92	CES60 = 88	CES85 = 78
CES11 = 56	CES36 = 79	CES61 = 84	CES86 = 74
CES12 = 62	CES37 = 92	CES62 = 80	CES87 = 84
CES13 = 42	CES38 = 85	CES63 = 84	CES88 = 88
CES14 = 74	CES39 = 98	CES64 = 75	CES89 = 78
CES15 = 71	CES40 = 96	CES65 = 76	CES90 = 89
CES16 = 46	CES41 = 96	CES66 = 72	CES91 = 69
CES17 = 49	CES42 = 94	CES67 = 70	CES92 = 62
CES18 = 56	CES43 = 91	CES68 = 75	CES93 = 77
CES19 = 71	CES44 = 99	CES69 = 79	CES94 = 62
CES20 = 64	CES45 = 94	CES70 = 73	CES95 = 71
CES21 = 85	CES46 = 91	CES71 = 66	CES96 = 83
CES22 = 77	CES47 = 95	CES72 = 88	CES97 = 89
CES23 = 91	CES48 = 84	CES73 = 67	CES98 = 85
CES24 = 90	CES49 = 91	CES74 = 90	CES99 = 75
CES25 = 71	CES50 = 92	CES75 = 70	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)