

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: P979142

Luminaire Tested: **WPMLED26S-100W-6500K**

Issue Date: 03/31/2025



Test Information

Test Method: LM-79-08
Report Number: P979142
Test Lab: Cooper Lighting Solutions
Issue Date: 03/31/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: WPMLD26S-100W-6500K
Description: LUMARK WALL PACK LED MEDIUM 80CRI CCT AND LUMEN SELECTIVE FIXTURE
OPERATING @100W-6500K
Light Source: 6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

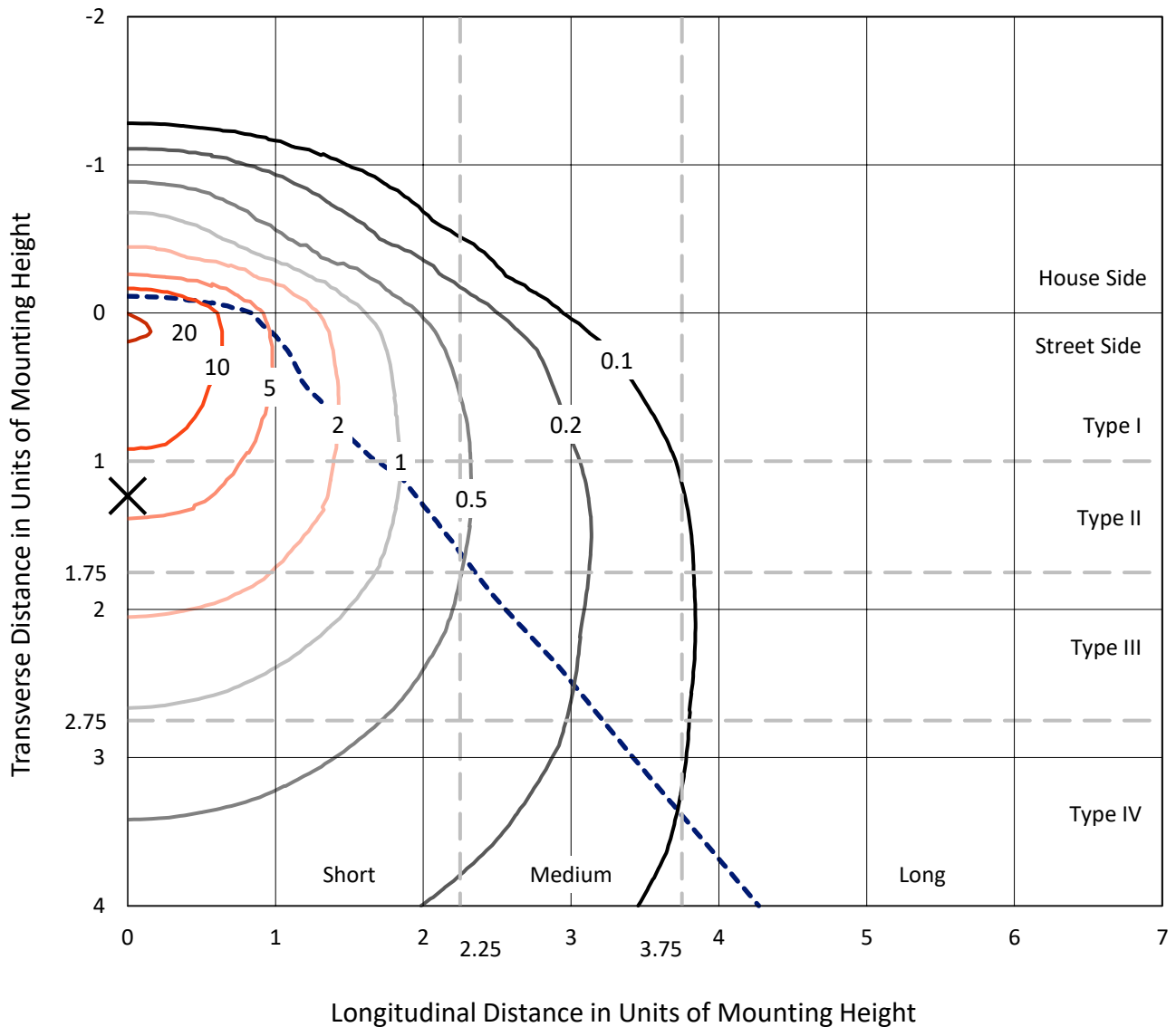
Lumens per Lamp: N/A
Luminaire Lumens: 15077.6 lumens
Efficiency: N/A
Efficacy: 150.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.86' x L: 0.17' x H: 0.58')
IES Classification: Type IV - Short
BUG Rating: B2 - U4 - G5

Input Watts (W): 100.2
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

REPORT NUMBER: P979142
 CATALOG NUMBER: WPMLED26S-100W-6500K

Iso-Footcandle Lines of Horizontal Illumination

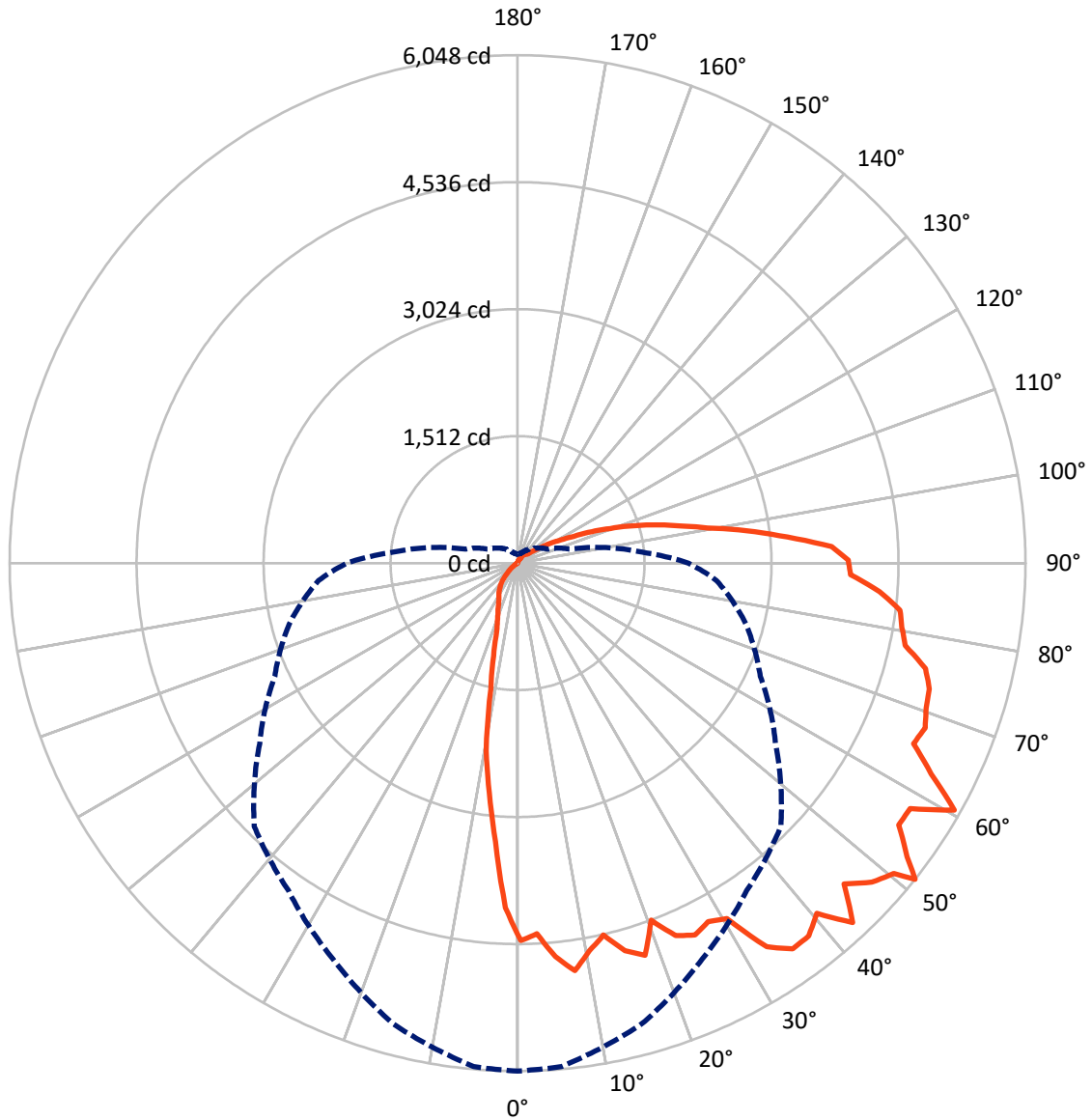
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 21.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P979142
CATALOG NUMBER: WPMLED26S-100W-6500K

Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 51-Deg Vertical

REPORT NUMBER: P979142

CATALOG NUMBER: WPMLD26S-100W-6500K

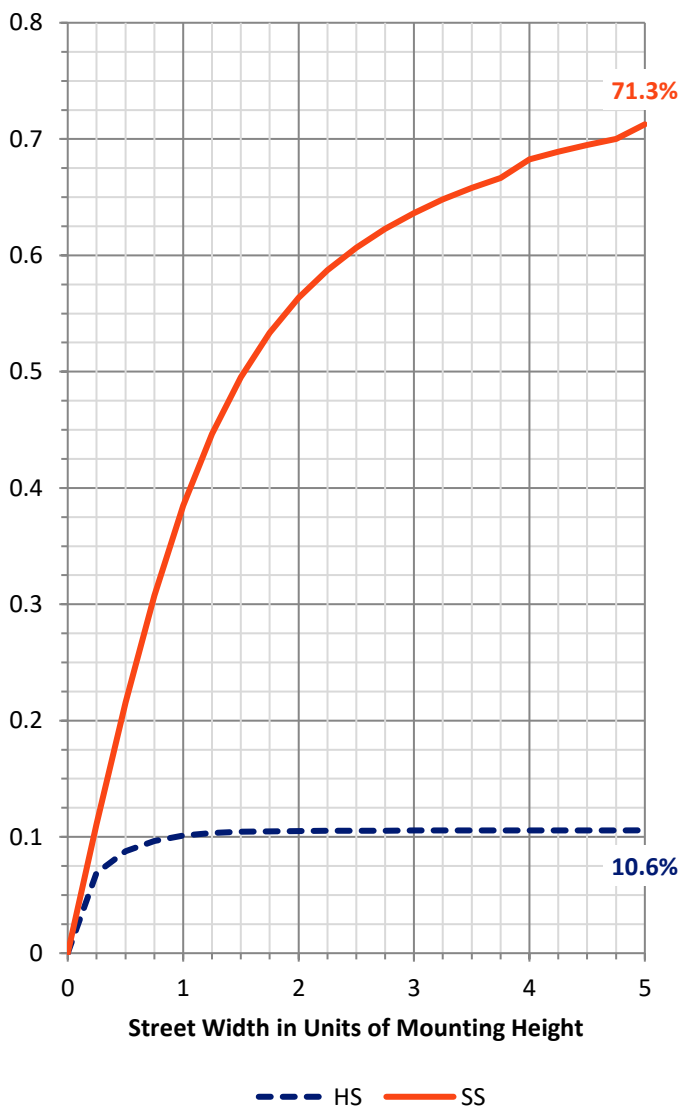
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1608.0	18.5	1626.5
	% Fixture	10.7	0.1	10.8
Street Side	Lumens	11753.9	1697.3	13451.2
	% Fixture	78.0	11.3	89.2
Total	Lumens	13361.8	1715.8	15077.6
	% Fixture	88.6	11.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.0	2.6
10°-20°	970.4	6.4
20°-30°	1351.8	9.0
30°-40°	1702.7	11.3
40°-50°	1923.7	12.8
50°-60°	1992.4	13.2
60°-70°	1926.4	12.8
70°-80°	1718.3	11.4
80°-90°	1384.2	9.2
90°-100°	916.4	6.1
100°-110°	453.0	3.0
110°-120°	197.8	1.3
120°-130°	80.4	0.5
130°-140°	40.5	0.3
140°-150°	20.0	0.1
150°-160°	6.3	0.0
160°-170°	1.3	0.0
170°-180°	0.2	0.0
0°-90°	13361.8	88.6
0°-180°	15077.6	100.0



REPORT NUMBER: P979142

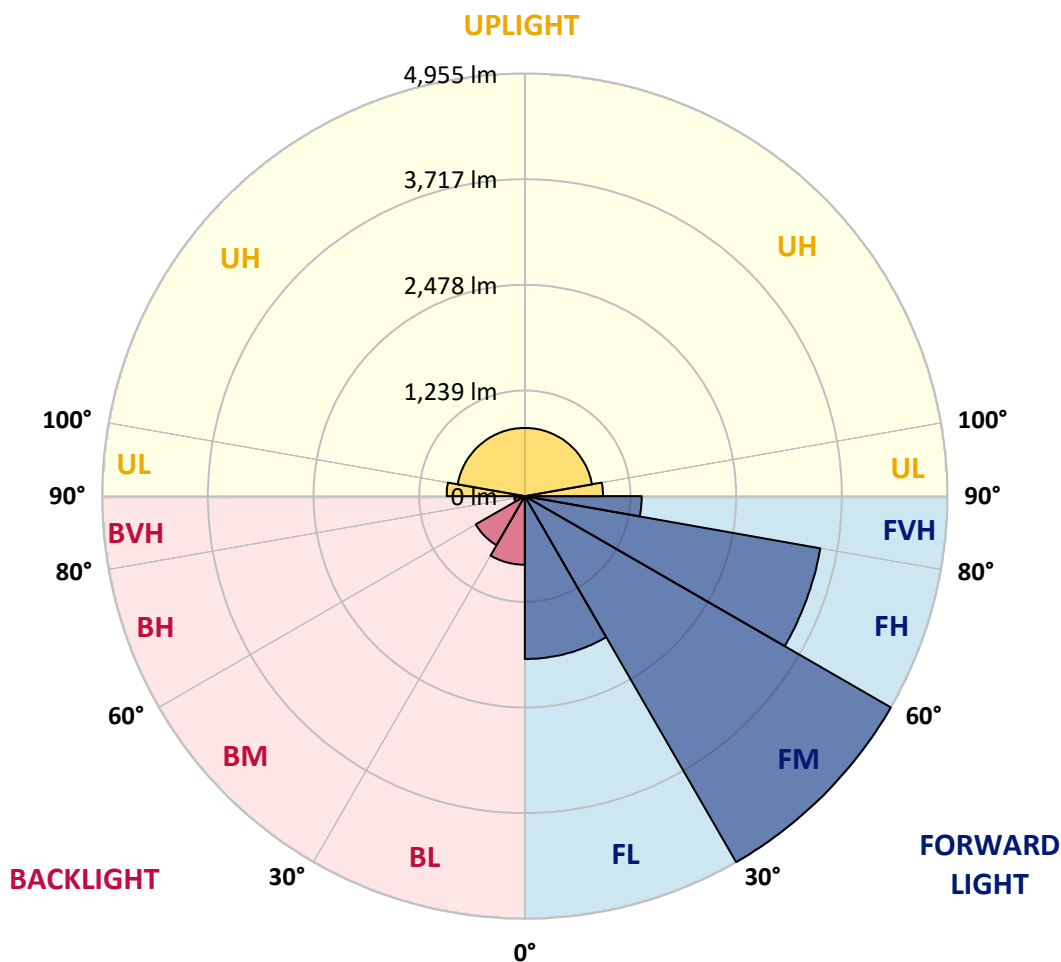
CATALOG NUMBER: WPMLED26S-100W-6500K

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1909.6	12.7			
FM (30°-60°)	4955.4	32.9			
FH (60°-80°)	3518.7	23.3			G2/5000
FVH (80°-90°)	1370.1	9.1			G5
BL (0°-30°)	804.6	5.3	B2/1000		
BM (30°-60°)	663.4	4.4	B1/1000		
BH (60°-80°)	125.9	0.8	B1/500		G1/500
BVH (80°-90°)	14.1	0.1			G1/100
UL (90°-100°)	916.4	6.1		U4/1000	
UH (100°-180°)	799.4	5.3		U4/1000	

BUG Rating: B2-U4-G5

Type IV Short





REPORT NUMBER: P979142

CATALOG NUMBER: WPMLED26S-100W-6500K

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4494.7	4494.7	4494.7	4494.7	4494.7	4494.7	4494.7	4494.7	4494.7	4494.7	4494.7
2.5°	4419.6	4418.5	4419.6	4422.7	4428.8	4490.6	4541.0	4562.6	4534.8	4492.6	4490.6
5°	4706.7	4708.7	4684.0	4668.6	4597.6	4519.4	4443.2	4421.6	4537.9	4495.7	4480.3
7.5°	4899.1	4875.4	4861.0	4847.6	4813.7	4728.3	4621.3	4449.4	4430.9	4497.8	4467.9
10°	4693.3	4670.7	4718.0	4801.3	4909.4	4822.9	4764.3	4584.2	4372.2	4489.5	4448.4
12.5°	4545.1	4526.6	4474.1	4408.3	4579.1	4797.2	4806.5	4666.5	4407.2	4450.4	4411.3
15°	4788.0	4766.3	4697.4	4631.5	4458.7	4456.6	4774.6	4705.6	4434.0	4378.4	4351.7
17.5°	4909.4	4896.0	4931.0	4907.3	4673.7	4446.3	4493.7	4661.4	4458.7	4279.6	4268.3
20°	4538.9	4547.2	4604.8	4773.6	4892.9	4614.1	4233.3	4590.4	4405.2	4180.8	4172.6
22.5°	4816.8	4755.0	4502.9	4447.4	4675.8	4793.1	4393.8	4374.3	4351.7	4073.8	4062.5
25°	4906.3	4907.3	4998.9	4898.1	4375.3	4631.5	4496.7	4067.7	4279.6	3958.6	3933.9
27.5°	4833.2	4824.0	4785.9	4834.3	4864.1	4316.7	4535.9	3974.0	4166.4	3842.3	3803.2
30°	4910.4	4878.5	4862.0	4777.7	4706.7	4334.2	4370.2	4051.2	4079.0	3736.3	3662.2
32.5°	5446.5	5428.0	5275.7	4807.5	4620.2	4639.8	4106.8	4160.3	3982.2	3636.5	3520.2
35°	5641.0	5623.5	5472.2	5254.1	4619.2	4403.1	4017.2	4105.7	3802.2	3518.2	3366.9
37.5°	5631.7	5623.5	5544.3	5358.0	4990.7	4328.0	4311.5	3933.9	3590.2	3380.3	3189.9
40°	5484.6	5453.7	5369.3	5293.2	4990.7	4411.3	4059.4	3785.7	3411.1	3238.3	2999.5
42.5°	5849.9	5843.7	5737.7	5222.2	4901.1	4590.4	3954.5	3609.7	3309.3	3070.5	2791.7
45°	5447.5	5490.8	5591.6	5484.6	4848.7	4428.8	3898.9	3659.1	3267.1	2877.1	2562.2
47.5°	5677.0	5671.9	5626.6	5246.9	5053.4	4346.5	4058.4	3498.6	3151.8	2662.0	2333.8
50°	5806.7	5777.9	5493.9	5312.7	4830.1	4377.4	3835.1	3270.2	2917.2	2458.3	2122.8
51°	6047.5	6016.6	5685.2	5201.6	4758.1	4433.0	3748.7	3188.9	2816.4	2378.0	2035.4
52.5°	5807.7	5814.9	5895.2	5364.2	4782.8	4384.6	3662.2	3082.9	2680.6	2256.6	1921.2
55°	5505.2	5485.6	5530.9	5482.5	4854.8	4207.6	3624.2	3043.8	2488.1	2090.9	1737.0
57.5°	5511.3	5491.8	5374.5	5272.6	5031.8	4217.9	3612.8	2906.9	2388.3	1941.7	1572.3
60°	5974.4	5950.7	5741.8	5062.7	4869.2	4356.8	3421.4	2681.6	2234.0	1787.4	1404.6
62.5°	5525.8	5508.3	5547.4	5368.3	4653.2	4298.2	3327.8	2561.2	2041.5	1617.6	1247.2
65°	5181.0	5162.5	5108.0	4988.6	4727.2	4049.1	3298.0	2584.9	1901.6	1457.1	1080.5
67.5°	5233.5	5200.6	5108.0	4805.5	4449.4	3997.7	3129.2	2391.4	1845.0	1304.8	929.2
70°	5160.5	5143.0	5011.3	4709.8	4304.3	3756.9	2951.2	2251.5	1658.8	1171.0	756.3
72.5°	5126.5	5122.4	5030.8	4679.9	4274.5	3643.7	2743.3	2237.1	1500.3	973.4	590.6
75°	5016.4	5008.2	4866.2	4585.2	4160.3	3542.9	2603.4	2003.5	1427.2	795.4	444.5
77.5°	4718.0	4725.2	4643.9	4357.8	3953.4	3348.4	2427.4	1758.6	1251.3	625.6	327.2
80°	4638.8	4626.4	4530.7	4217.9	3833.0	3189.9	2256.6	1573.3	1095.9	458.9	233.6
82.5°	4587.3	4580.1	4454.6	4154.1	3689.0	3041.7	2080.6	1400.5	863.3	332.4	164.6
85°	4321.8	4333.1	4242.6	3920.5	3462.6	2812.3	1900.6	1225.5	690.5	231.5	111.1
87.5°	3966.8	3958.6	3805.3	3534.6	3240.3	2626.0	1717.4	1044.4	545.4	159.5	73.1
90°	3937.0	3932.9	3784.7	3407.0	2948.1	2306.0	1487.9	881.9	414.7	108.0	52.5
92.5°	3743.5	3727.1	3525.4	3117.9	2618.8	1969.5	1277.0	733.7	321.0	81.3	46.3
95°	3229.0	3212.6	3073.6	2805.1	2334.8	1702.0	1074.3	597.9	248.0	67.9	45.3
97.5°	2757.7	2724.8	2581.8	2294.7	1976.7	1469.4	883.9	464.1	203.7	63.8	47.3
100°	2300.9	2293.7	2158.9	1911.9	1616.6	1196.7	713.1	369.4	168.8	63.8	49.4
102.5°	1967.5	1941.7	1841.9	1632.0	1343.9	924.0	568.0	302.5	142.0	65.9	51.5
105°	1703.0	1692.7	1611.4	1418.0	1125.7	776.9	458.9	255.2	124.5	67.9	52.5
107.5°	1440.6	1423.1	1338.7	1177.2	933.3	659.6	393.1	214.0	113.2	67.9	52.5



REPORT NUMBER: P979142
 CATALOG NUMBER: WPMLED26S-100W-6500K

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	1176.2	1164.8	1091.8	938.5	744.0	535.1	328.3	184.2	107.0	67.9	52.5
112.5°	960.1	950.8	896.3	768.7	605.1	425.0	271.7	160.5	101.9	66.9	51.5
115°	744.0	728.5	687.4	593.7	471.3	348.8	225.4	139.9	96.7	64.8	50.4
117.5°	589.6	582.4	550.5	466.1	370.4	277.8	190.4	123.5	91.6	60.7	47.3
120°	482.6	474.4	441.4	376.6	300.5	226.4	161.6	111.1	86.4	55.6	43.2
122.5°	374.6	366.3	346.8	299.4	245.9	193.5	142.0	99.8	79.2	50.4	38.1
125°	294.3	288.1	271.7	237.7	201.7	167.7	125.5	91.6	71.0	44.2	34.0
127.5°	229.5	226.4	215.1	194.5	172.9	145.1	113.2	84.4	62.8	39.1	29.8
130°	186.2	184.2	178.0	168.8	153.3	130.7	102.9	78.2	55.6	35.0	26.8
132.5°	155.4	154.4	155.4	153.3	139.9	118.3	94.7	74.1	49.4	30.9	23.7
135°	145.1	145.1	149.2	146.1	130.7	107.0	86.4	67.9	43.2	26.8	20.6
137.5°	153.3	152.3	149.2	135.8	116.3	94.7	77.2	59.7	37.0	22.6	18.5
140°	150.2	149.2	139.9	122.5	100.8	83.3	67.9	51.5	30.9	19.6	15.4
142.5°	131.7	130.7	121.4	105.0	86.4	72.0	59.7	43.2	25.7	15.4	12.3
145°	106.0	106.0	97.8	86.4	73.1	61.7	51.5	34.0	19.6	12.3	9.3
147.5°	83.3	82.3	78.2	71.0	60.7	53.5	42.2	27.8	15.4	10.3	8.2
150°	67.9	66.9	62.8	57.6	51.5	45.3	32.9	20.6	11.3	8.2	7.2
152.5°	54.5	53.5	51.5	47.3	43.2	35.0	24.7	14.4	9.3	7.2	6.2
155°	43.2	43.2	41.2	38.1	34.0	26.8	17.5	10.3	7.2	6.2	5.1
157.5°	34.0	34.0	31.9	28.8	24.7	18.5	12.3	8.2	6.2	5.1	5.1
160°	25.7	25.7	23.7	21.6	16.5	12.3	8.2	7.2	6.2	5.1	4.1
162.5°	18.5	17.5	16.5	14.4	10.3	9.3	7.2	6.2	5.1	4.1	4.1
165°	12.3	11.3	10.3	8.2	7.2	7.2	6.2	5.1	5.1	4.1	4.1
167.5°	7.2	6.2	6.2	6.2	6.2	5.1	5.1	5.1	5.1	4.1	4.1
170°	3.1	3.1	3.1	4.1	5.1	5.1	5.1	5.1	5.1	4.1	4.1
172.5°	1.0	1.0	2.1	3.1	4.1	5.1	5.1	5.1	5.1	4.1	4.1
175°	0.0	1.0	2.1	3.1	4.1	5.1	5.1	5.1	5.1	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



REPORT NUMBER: P979142

CATALOG NUMBER: WPMLED26S-100W-6500K

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4494.7	4494.7	4494.7	4494.7	4494.7	4494.7	4494.7	4494.7	4494.7	4494.7
2.5°	4504.0	4530.7	4513.2	4443.2	4336.2	4259.0	4165.4	4110.9	4103.7	4105.7
5°	4510.1	4456.6	4204.5	3983.3	3804.2	3563.4	3446.1	3342.2	3323.7	3327.8
7.5°	4510.1	4251.8	3894.8	3464.7	3190.9	2971.8	2864.7	2798.9	2774.2	2754.6
10°	4477.2	4013.1	3497.6	3055.1	2809.2	2649.7	2480.9	2348.2	2256.6	2264.8
12.5°	4387.7	3793.9	3142.6	2771.1	2504.6	2165.0	1844.0	1634.1	1541.4	1531.2
15°	4241.6	3512.0	2866.8	2520.0	2023.0	1566.1	1333.6	1197.8	1151.5	1143.2
17.5°	4073.8	3264.0	2657.9	2117.7	1519.8	1207.0	1019.7	905.5	851.0	844.8
20°	3893.8	2977.9	2406.8	1684.5	1192.6	933.3	802.6	731.6	703.8	705.9
22.5°	3718.8	2750.5	2085.8	1337.7	945.7	767.6	684.3	650.3	629.8	622.5
25°	3540.8	2549.9	1768.9	1067.1	783.1	667.8	607.1	576.2	553.6	548.5
27.5°	3354.6	2364.7	1462.2	880.8	685.3	594.8	548.5	513.5	492.9	487.7
30°	3162.1	2163.0	1212.2	756.3	606.1	536.1	493.9	465.1	452.8	452.8
32.5°	2987.2	1940.7	1005.3	662.7	544.3	488.8	452.8	433.2	422.9	420.9
35°	2795.8	1708.1	852.0	594.8	498.0	445.6	415.7	394.1	376.6	376.6
37.5°	2599.3	1486.9	734.7	535.1	455.8	408.5	376.6	354.0	341.6	340.6
40°	2394.5	1276.0	649.3	483.6	414.7	372.5	340.6	314.9	299.4	298.4
42.5°	2177.4	1094.9	576.2	436.3	377.6	335.5	298.4	265.5	249.0	245.9
45°	1961.3	937.4	515.5	394.1	338.5	292.2	248.0	216.1	199.6	198.6
47.5°	1751.4	801.6	462.0	355.0	299.4	248.0	201.7	169.8	154.4	152.3
50°	1556.9	684.3	413.7	322.1	260.3	204.8	159.5	131.7	121.4	120.4
51°	1489.0	646.2	395.1	309.7	245.9	187.3	143.0	118.3	108.0	107.0
52.5°	1394.3	595.8	370.4	291.2	222.3	165.7	123.5	100.8	89.5	88.5
55°	1234.8	518.6	336.5	258.3	185.2	130.7	93.6	74.1	61.7	60.7
57.5°	1083.5	458.9	307.7	225.4	151.3	99.8	65.9	48.4	40.1	39.1
60°	928.2	407.5	281.9	193.5	121.4	72.0	41.2	26.8	20.6	19.6
62.5°	782.0	360.2	254.2	163.6	92.6	48.4	20.6	7.2	7.2	7.2
65°	651.4	318.0	225.4	134.8	66.9	27.8	4.1	0.0	0.0	0.0
67.5°	534.1	283.0	195.5	109.1	45.3	8.2	0.0	0.0	0.0	0.0
70°	432.2	247.0	167.7	85.4	25.7	0.0	0.0	0.0	0.0	0.0
72.5°	345.7	209.9	141.0	63.8	11.3	0.0	0.0	0.0	0.0	0.0
75°	269.6	177.0	115.2	45.3	2.1	0.0	0.0	0.0	0.0	0.0
77.5°	208.9	146.1	92.6	30.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	159.5	119.4	71.0	19.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	118.3	94.7	54.5	12.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	85.4	74.1	42.2	8.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	62.8	59.7	32.9	6.2	0.0	0.0	0.0	0.0	0.0	0.0
90°	50.4	48.4	25.7	4.1	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	44.2	40.1	21.6	3.1	0.0	0.0	0.0	0.0	0.0	0.0
95°	42.2	35.0	16.5	3.1	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	41.2	30.9	14.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0
100°	41.2	27.8	12.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	41.2	24.7	10.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	41.2	22.6	10.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	41.2	21.6	8.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P979142
 CATALOG NUMBER: WPMLD26S-100W-6500K

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	41.2	20.6	7.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	40.1	19.6	6.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	39.1	17.5	5.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	36.0	15.4	5.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	31.9	13.4	4.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	28.8	12.3	4.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	25.7	10.3	4.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	22.6	9.3	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	19.6	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	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	13.4	6.2	2.1	1.0	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	1.0	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°	5.1	3.1	1.0	1.0	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	1.0	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: SP1-2407-168-5

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.

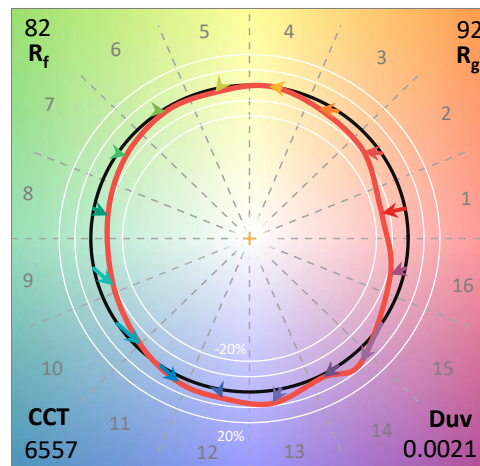
Test Information

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

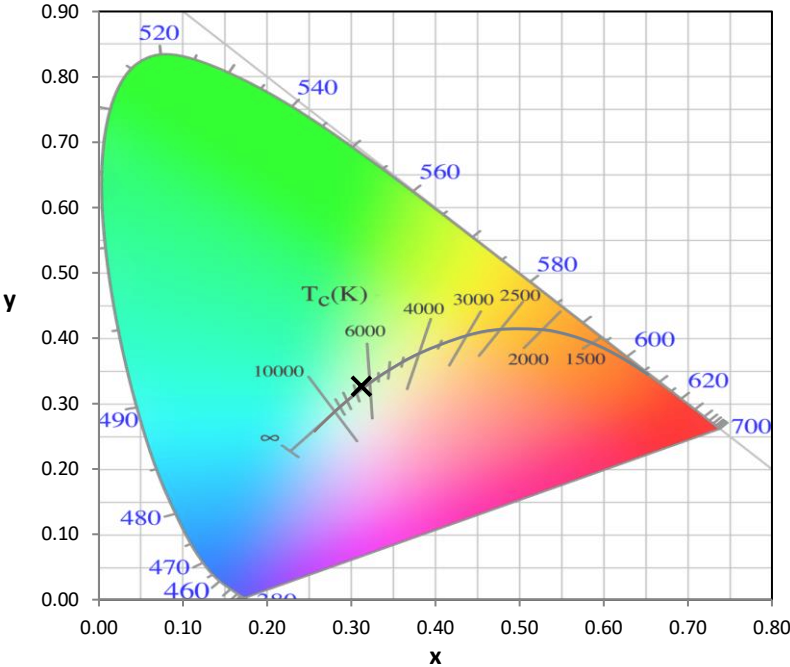
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2407-168-5

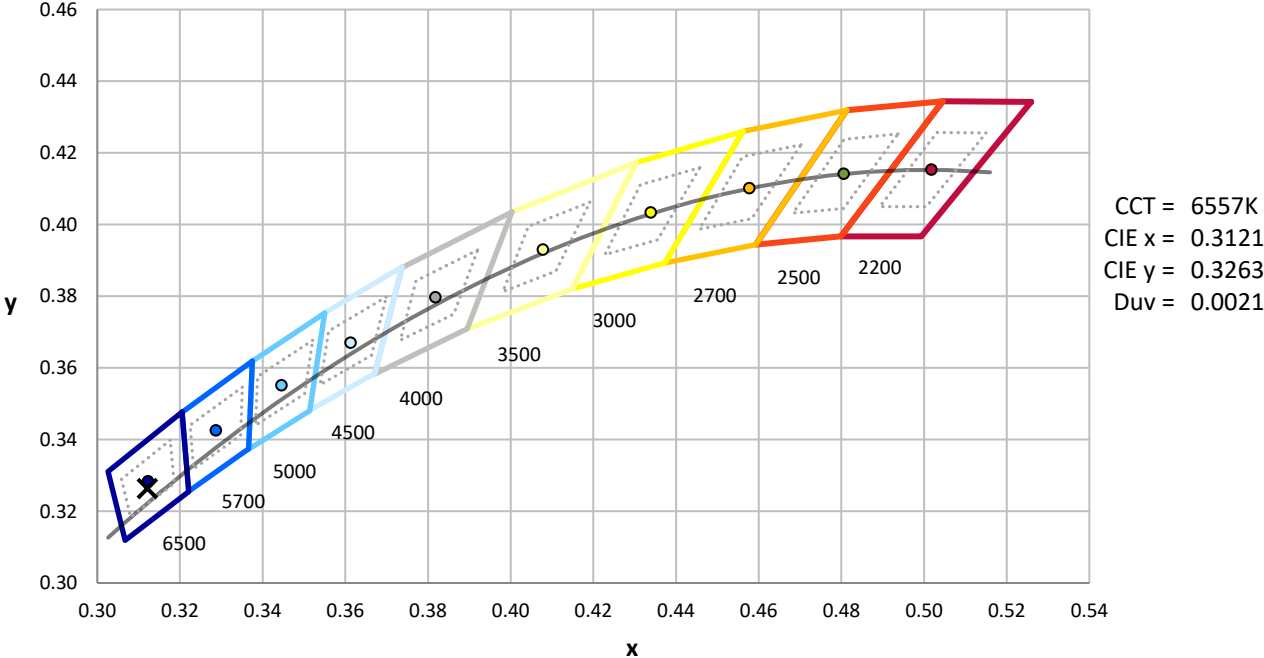
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-168-5

CIE 1931 Chromaticity Diagram



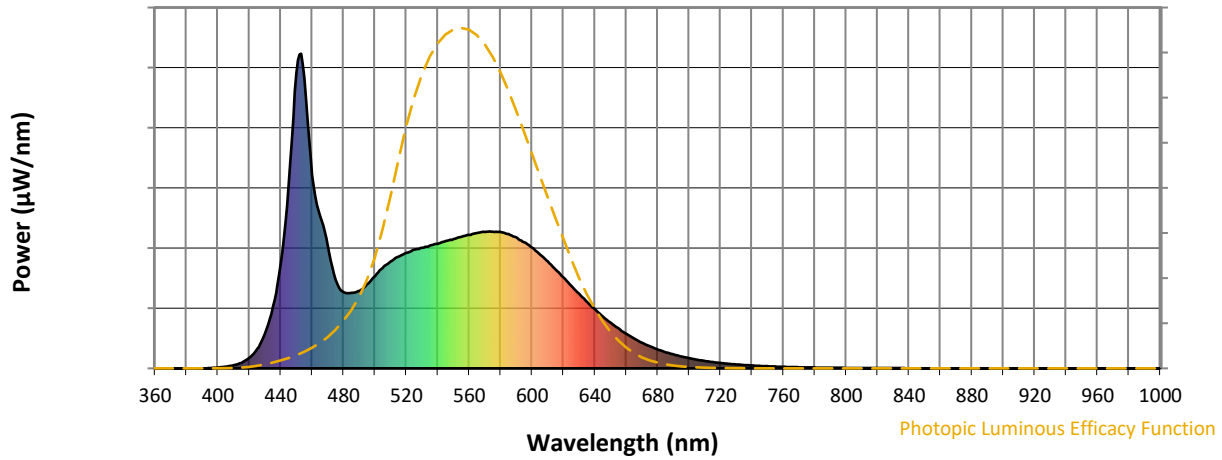
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 6500K 4-step quadrangle

REPORT NUMBER: SP1-2407-168-5

Photopic Flux vs. Wavelength

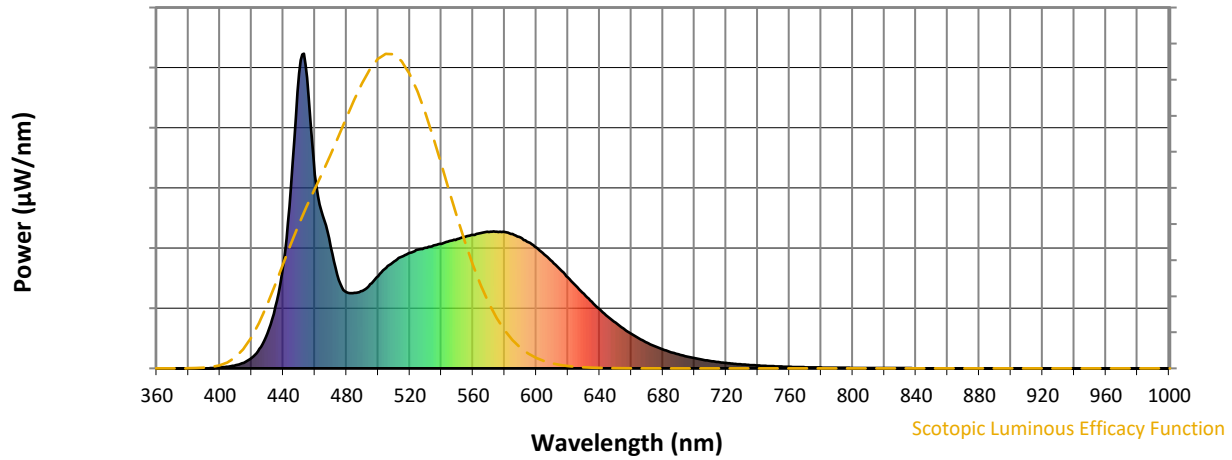


Photopic Lumens: NR

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



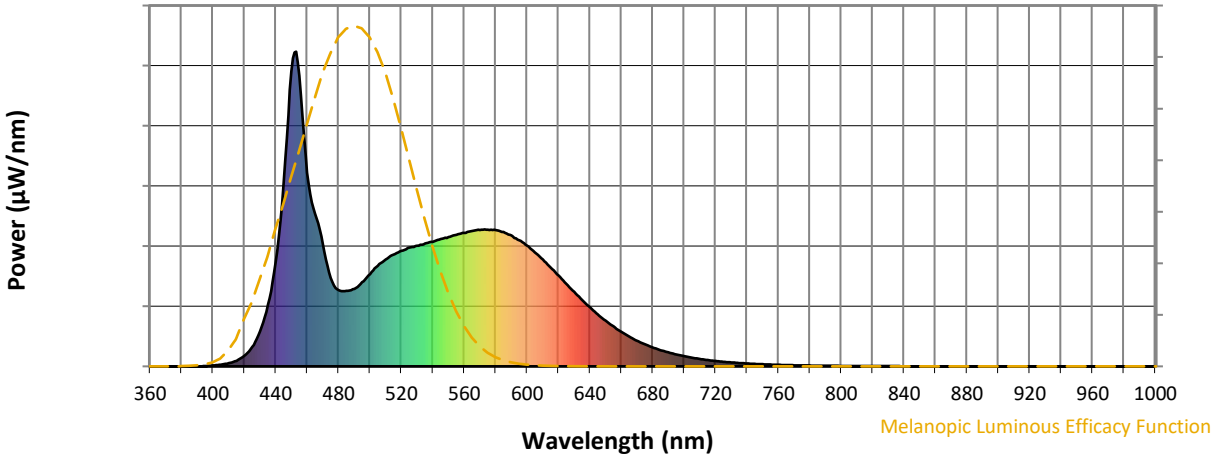
Scotopic Lumens: NR

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



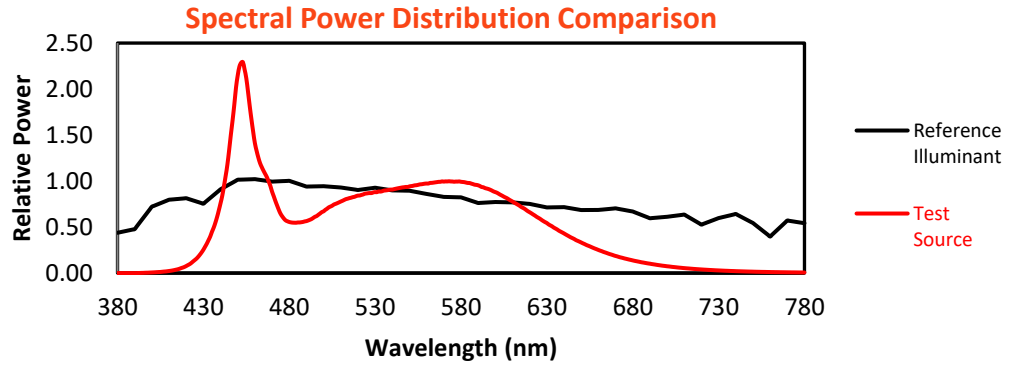
Melanopic Lumens: NR

M/P: 5.06

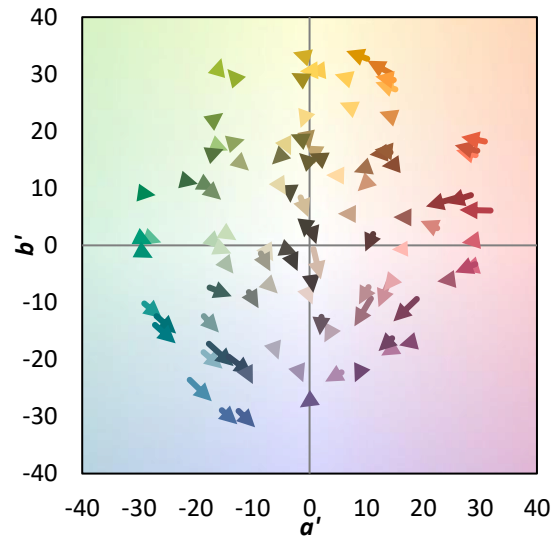
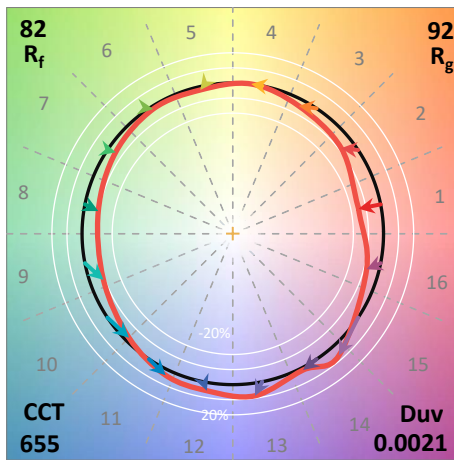
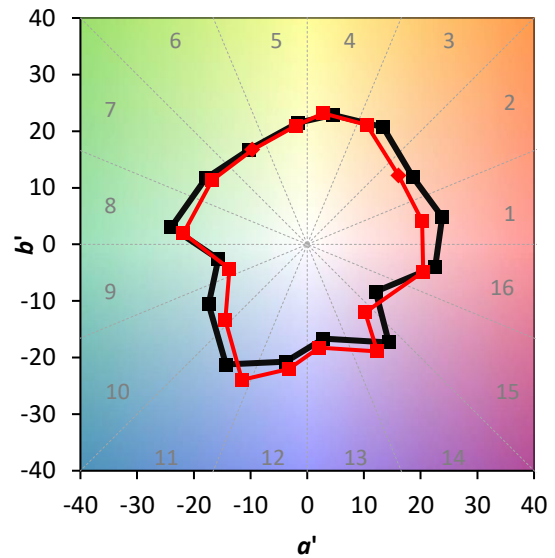
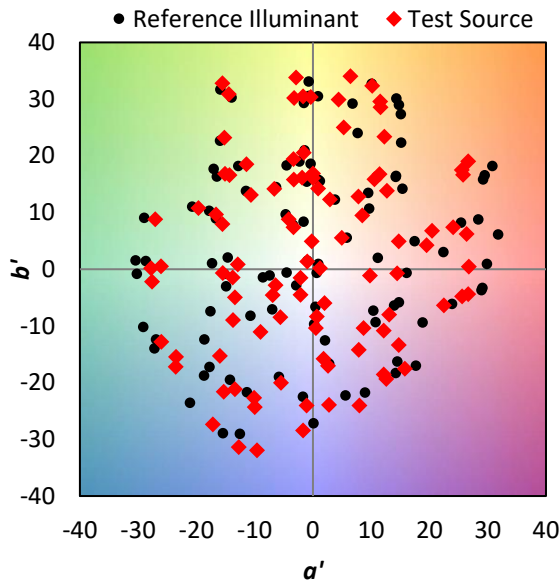
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	246	NR	620	288	NR	750	7	NR	880	0	NR
365	0	NR	495	267	NR	625	262	NR	755	6	NR	885	0	NR
370	0	NR	500	293	NR	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

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

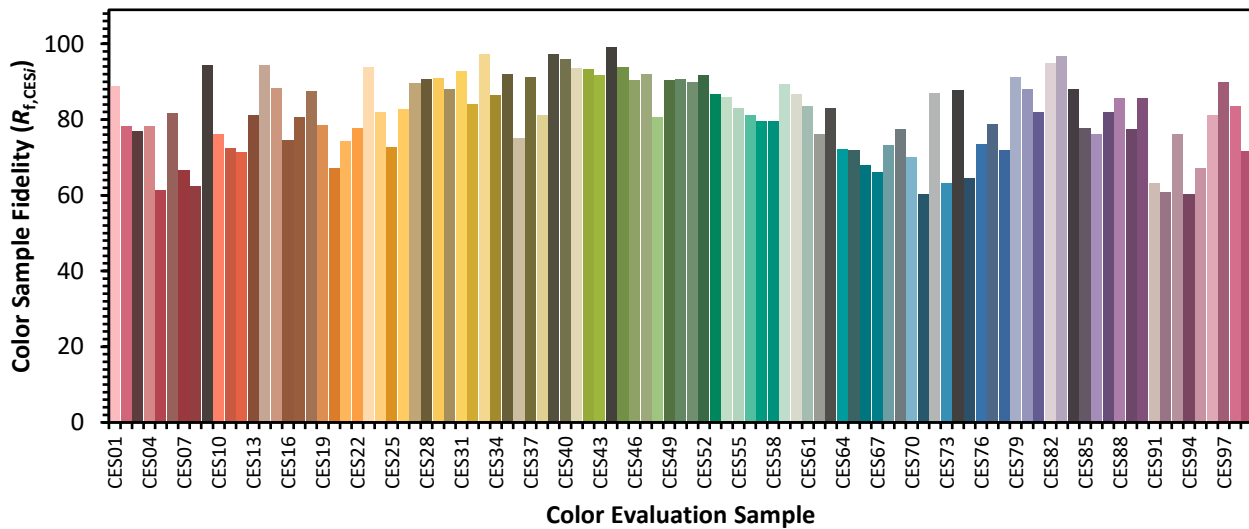


Color Vector Graphics

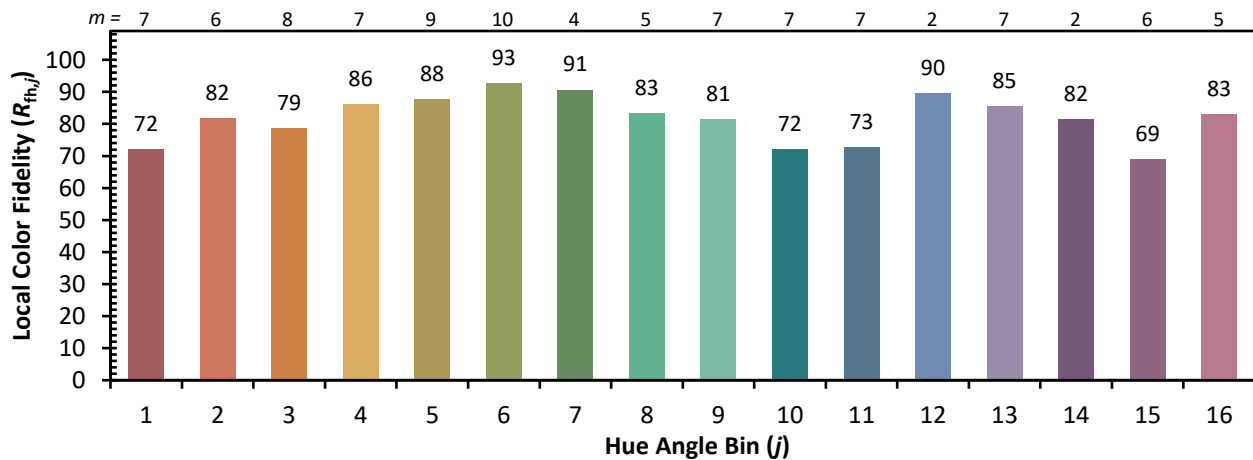
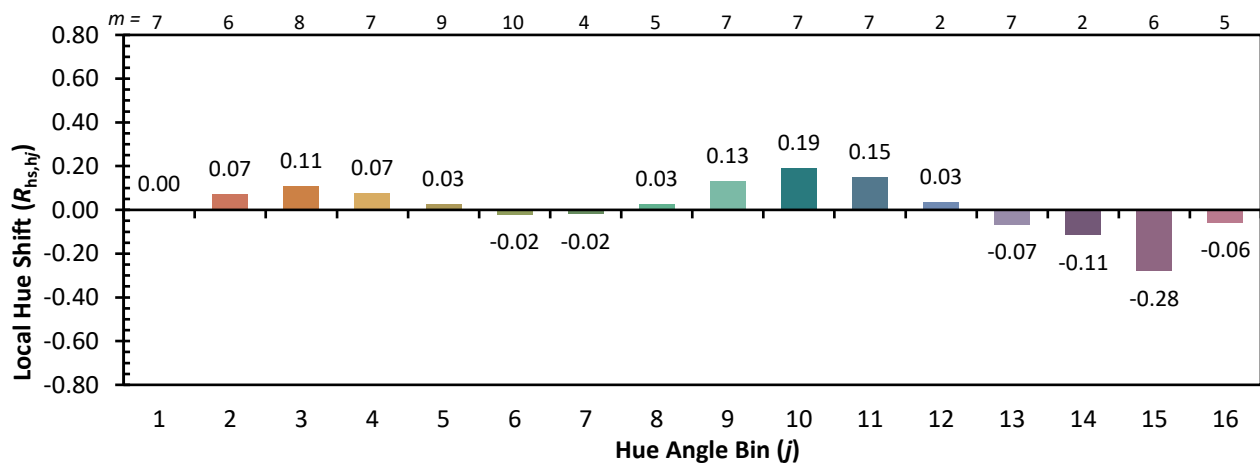
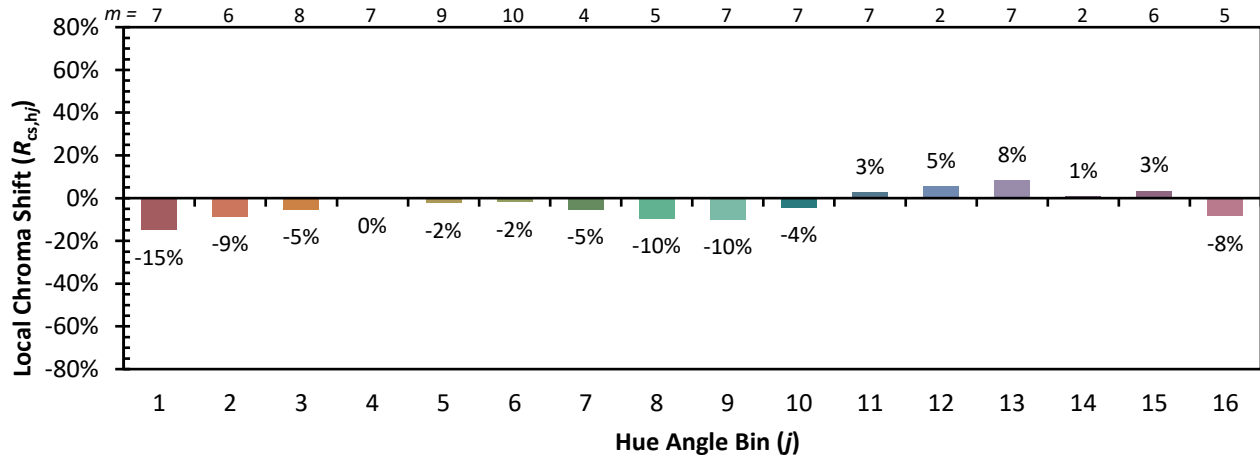


Individual Sample Fidelity Index ($R_{f,i}$)

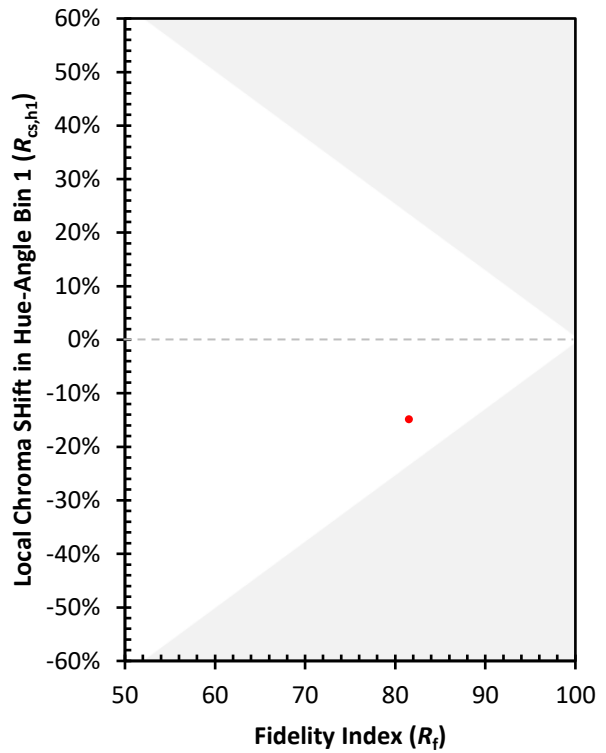
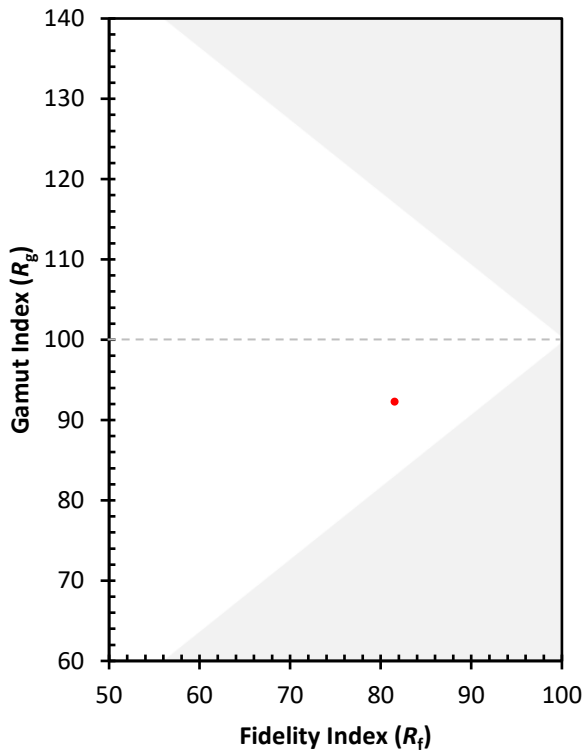
CES01 = 85	CES26 = 83	CES51 = 90	CES76 = 74
CES02 = 59	CES27 = 90	CES52 = 92	CES77 = 79
CES03 = 30	CES28 = 91	CES53 = 87	CES78 = 72
CES04 = 68	CES29 = 91	CES54 = 86	CES79 = 91
CES05 = 45	CES30 = 88	CES55 = 83	CES80 = 88
CES06 = 49	CES31 = 93	CES56 = 81	CES81 = 82
CES07 = 38	CES32 = 84	CES57 = 80	CES82 = 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)