

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: P979152

Luminaire Tested: **WPMLED26S-80W-6500K**

Issue Date: 03/31/2025



Test Information

Test Method: LM-79-08
Report Number: P979152
Test Lab: Cooper Lighting Solutions
Issue Date: 03/31/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: WPMLD26S-80W-6500K
Description: LUMARK WALL PACK LED MEDIUM 80CRI CCT AND LUMEN SELECTIVE FIXTURE
OPERATING @80W-6500K
Light Source: 6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

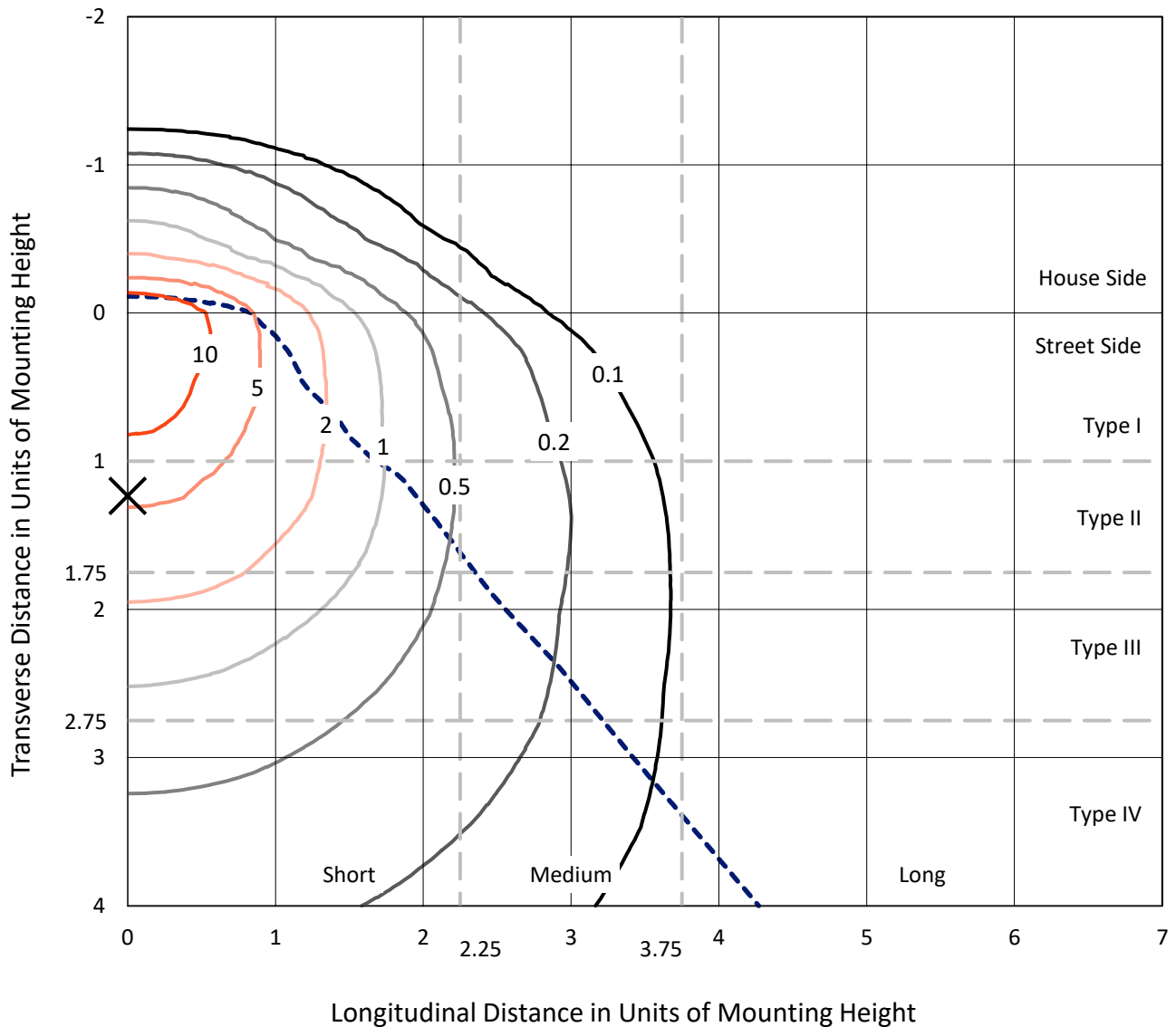
Lumens per Lamp: N/A
Luminaire Lumens: 12960.7 lumens
Efficiency: N/A
Efficacy: 156.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.86' x L: 0.17' x H: 0.58')
IES Classification: Type IV - Short
BUG Rating: B2 - U4 - G5

Input Watts (W): 83
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

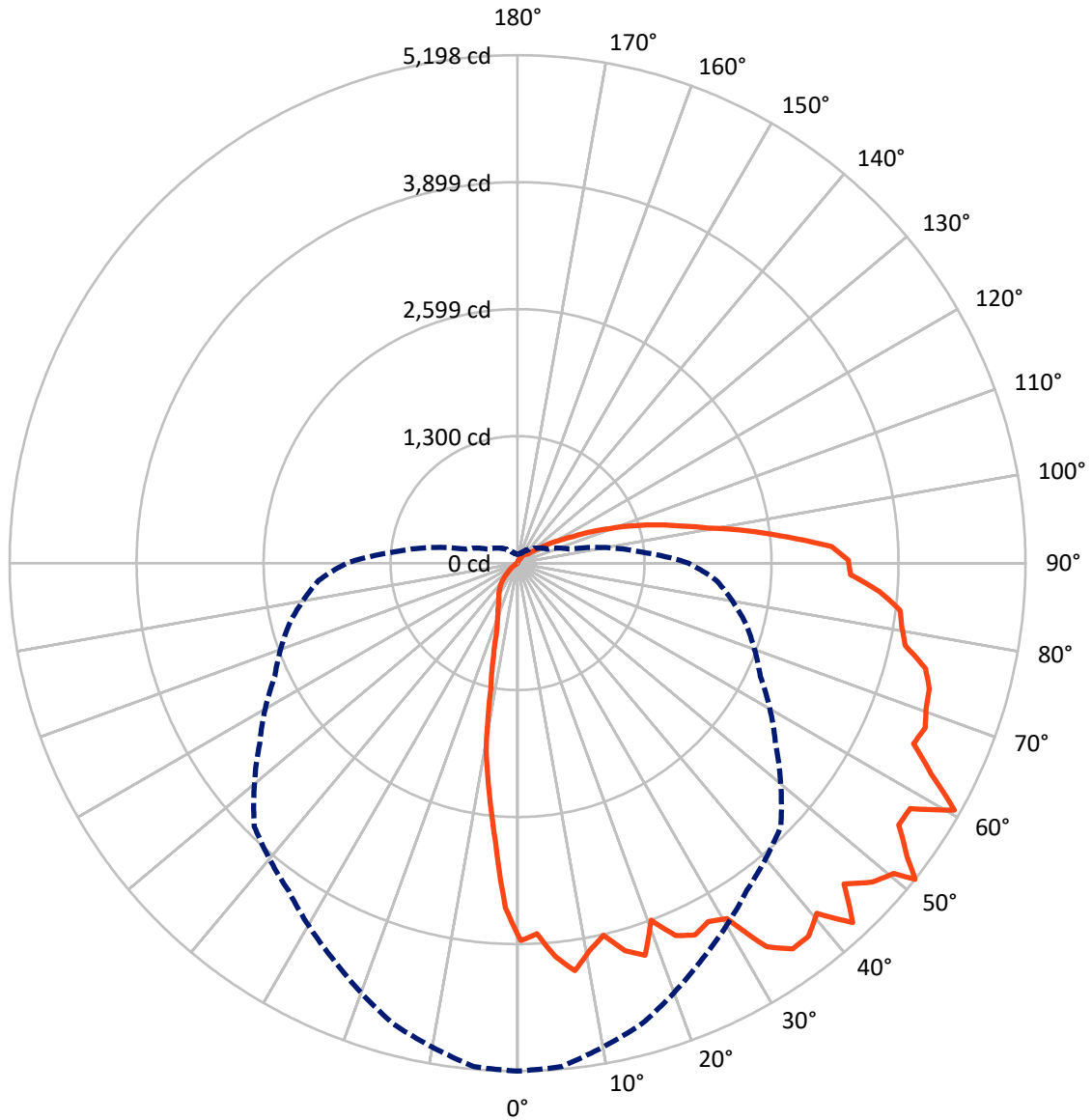
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 18.2 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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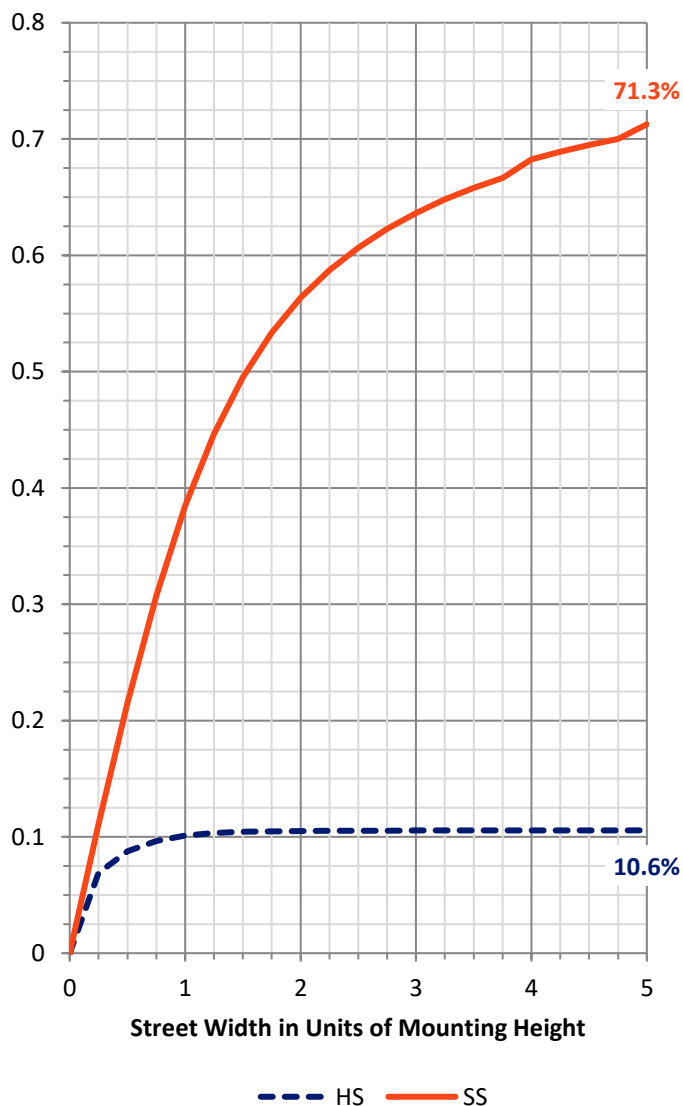
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1382.2	15.9	1398.1
	% Fixture	10.7	0.1	10.8
Street Side	Lumens	10103.6	1459.0	11562.6
	% Fixture	78.0	11.3	89.2
Total	Lumens	11485.8	1474.9	12960.7
	% Fixture	88.6	11.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.0	2.6
10°-20°	834.2	6.4
20°-30°	1162.0	9.0
30°-40°	1463.6	11.3
40°-50°	1653.6	12.8
50°-60°	1712.7	13.2
60°-70°	1655.9	12.8
70°-80°	1477.0	11.4
80°-90°	1189.9	9.2
90°-100°	787.7	6.1
100°-110°	389.4	3.0
110°-120°	170.0	1.3
120°-130°	69.1	0.5
130°-140°	34.8	0.3
140°-150°	17.2	0.1
150°-160°	5.4	0.0
160°-170°	1.1	0.0
170°-180°	0.2	0.0
0°-90°	11485.8	88.6
0°-180°	12960.7	100.0



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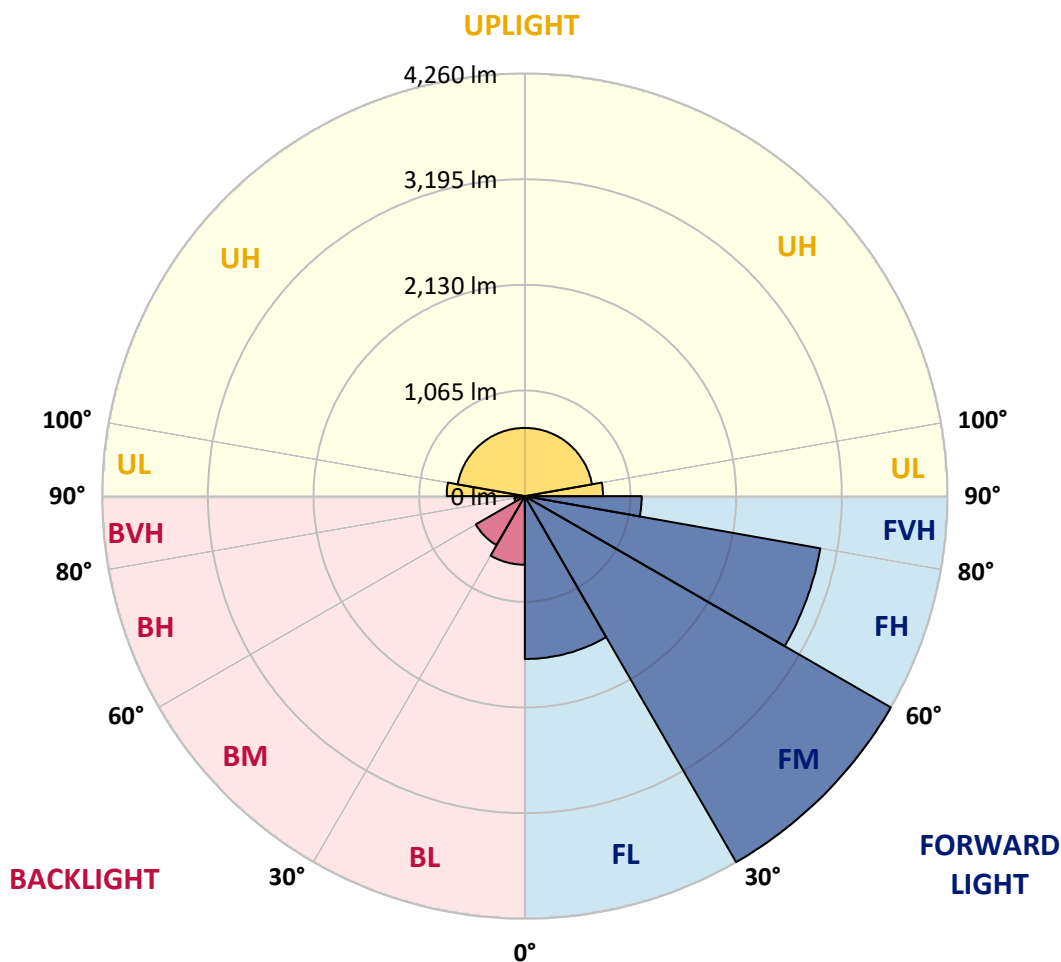
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1641.5	12.7			
FM	(30°-60°)	4259.6	32.9			
FH	(60°-80°)	3024.7	23.3			G2/5000
FVH	(80°-90°)	1177.7	9.1			G5
BL	(0°-30°)	691.6	5.3	B2/1000		
BM	(30°-60°)	570.3	4.4	B1/1000		
BH	(60°-80°)	108.2	0.8	B0/110		G0/110
BVH	(80°-90°)	12.1	0.1			G1/100
UL	(90°-100°)	787.7	6.1		U4/1000	
UH	(100°-180°)	687.2	5.3		U4/1000	

BUG Rating: B2-U4-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3863.6	3863.6	3863.6	3863.6	3863.6	3863.6	3863.6	3863.6	3863.6	3863.6	3863.6
2.5°	3799.1	3798.2	3799.1	3801.7	3807.0	3860.1	3903.4	3922.0	3898.1	3861.9	3860.1
5°	4045.8	4047.6	4026.4	4013.1	3952.1	3884.9	3819.4	3800.8	3900.8	3864.5	3851.2
7.5°	4211.2	4190.9	4178.5	4167.0	4137.8	4064.4	3972.4	3824.7	3808.8	3866.3	3840.6
10°	4034.3	4014.9	4055.6	4127.2	4220.1	4145.8	4095.4	3940.6	3758.4	3859.2	3823.8
12.5°	3907.0	3891.0	3845.9	3789.3	3936.2	4123.7	4131.6	4011.3	3788.4	3825.6	3792.0
15°	4115.7	4097.1	4037.9	3981.3	3832.7	3830.9	4104.2	4045.0	3811.4	3763.7	3740.7
17.5°	4220.1	4208.6	4238.7	4218.3	4017.5	3822.0	3862.7	4006.9	3832.7	3678.8	3669.0
20°	3901.7	3908.7	3958.3	4103.3	4205.9	3966.2	3639.0	3945.9	3786.7	3593.8	3586.8
22.5°	4140.5	4087.4	3870.7	3822.9	4019.3	4120.1	3776.9	3760.1	3740.7	3501.8	3492.1
25°	4217.4	4218.3	4297.0	4210.4	3761.0	3981.3	3865.4	3496.5	3678.8	3402.8	3381.6
27.5°	4154.6	4146.7	4113.9	4155.5	4181.2	3710.6	3899.0	3416.1	3581.5	3302.8	3269.2
30°	4221.0	4193.6	4179.4	4106.9	4045.8	3725.6	3756.6	3482.4	3506.3	3211.7	3148.0
32.5°	4681.8	4665.9	4535.0	4132.5	3971.5	3988.3	3530.2	3576.1	3423.1	3125.9	3026.0
35°	4849.0	4833.9	4703.9	4516.4	3970.6	3784.9	3453.2	3529.3	3268.3	3024.2	2894.2
37.5°	4841.0	4833.9	4765.8	4605.7	4290.0	3720.3	3706.2	3381.6	3086.1	2905.7	2742.0
40°	4714.5	4688.0	4615.5	4550.0	4290.0	3792.0	3489.5	3254.2	2932.2	2783.6	2578.4
42.5°	5028.5	5023.2	4932.1	4489.0	4213.0	3945.9	3399.2	3102.9	2844.6	2639.4	2399.7
45°	4682.7	4719.8	4806.5	4714.5	4167.9	3807.0	3351.5	3145.4	2808.4	2473.1	2202.5
47.5°	4879.9	4875.5	4836.6	4510.2	4343.9	3736.2	3488.6	3007.4	2709.3	2288.3	2006.1
50°	4991.4	4966.6	4722.5	4566.8	4152.0	3762.8	3296.6	2811.0	2507.6	2113.1	1824.8
51°	5198.4	5171.8	4887.0	4471.3	4090.1	3810.5	3222.3	2741.2	2421.0	2044.1	1749.6
52.5°	4992.3	4998.5	5067.5	4611.0	4111.3	3769.0	3148.0	2650.0	2304.2	1939.8	1651.4
55°	4732.2	4715.4	4754.3	4712.8	4173.2	3616.8	3115.3	2616.4	2138.8	1797.4	1493.1
57.5°	4737.5	4720.7	4619.9	4532.3	4325.3	3625.7	3105.6	2498.8	2053.0	1669.1	1351.6
60°	5135.6	5115.2	4935.7	4351.9	4185.6	3745.1	2941.1	2305.1	1920.3	1536.4	1207.4
62.5°	4749.9	4734.9	4768.5	4614.6	3999.8	3694.7	2860.6	2201.6	1754.9	1390.5	1072.0
65°	4453.6	4437.7	4390.8	4288.2	4063.5	3480.6	2834.9	2221.9	1634.6	1252.5	928.8
67.5°	4498.7	4470.4	4390.8	4130.7	3824.7	3436.4	2689.9	2055.6	1586.0	1121.6	798.7
70°	4435.9	4420.9	4307.7	4048.5	3700.0	3229.4	2536.8	1935.3	1425.9	1006.6	650.1
72.5°	4406.7	4403.2	4324.5	4022.8	3674.3	3132.1	2358.2	1923.0	1289.6	836.8	507.7
75°	4312.1	4305.0	4182.9	3941.5	3576.1	3045.4	2237.9	1722.2	1226.8	683.7	382.1
77.5°	4055.6	4061.8	3991.9	3746.0	3398.4	2878.3	2086.6	1511.7	1075.6	537.8	281.3
80°	3987.5	3976.8	3894.6	3625.7	3294.9	2742.0	1939.8	1352.4	942.0	394.5	200.8
82.5°	3943.2	3937.0	3829.1	3570.8	3171.0	2614.7	1788.5	1203.8	742.1	285.7	141.5
85°	3715.0	3724.8	3646.9	3370.1	2976.4	2417.4	1633.7	1053.5	593.5	199.0	95.5
87.5°	3409.9	3402.8	3271.0	3038.4	2785.4	2257.3	1476.3	897.8	468.8	137.1	62.8
90°	3384.2	3380.7	3253.3	2928.7	2534.2	1982.2	1279.0	758.0	356.5	92.9	45.1
92.5°	3217.9	3203.8	3030.4	2680.1	2251.1	1693.0	1097.7	630.7	276.0	69.9	39.8
95°	2775.7	2761.5	2642.1	2411.2	2007.0	1463.0	923.4	513.9	213.2	58.4	38.9
97.5°	2370.5	2342.2	2219.3	1972.5	1699.2	1263.1	759.8	398.9	175.1	54.8	40.7
100°	1977.8	1971.6	1855.7	1643.5	1389.6	1028.7	613.0	317.5	145.1	54.8	42.5
102.5°	1691.2	1669.1	1583.3	1402.9	1155.2	794.3	488.3	260.1	122.1	56.6	44.2
105°	1463.9	1455.0	1385.2	1218.9	967.7	667.8	394.5	219.4	107.0	58.4	45.1
107.5°	1238.3	1223.3	1150.8	1011.9	802.3	567.0	337.9	184.0	97.3	58.4	45.1



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 CATALOG NUMBER: WPMLLED26S-80W-6500K

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	1011.0	1001.3	938.5	806.7	639.5	460.0	282.2	158.3	92.0	58.4	45.1
112.5°	825.3	817.3	770.4	660.7	520.1	365.3	233.5	138.0	87.6	57.5	44.2
115°	639.5	626.2	590.9	510.4	405.1	299.9	193.7	120.3	83.1	55.7	43.3
117.5°	506.8	500.6	473.2	400.7	318.4	238.8	163.6	106.1	78.7	52.2	40.7
120°	414.8	407.8	379.5	323.7	258.3	194.6	138.9	95.5	74.3	47.8	37.2
122.5°	322.0	314.9	298.1	257.4	211.4	166.3	122.1	85.8	68.1	43.3	32.7
125°	253.0	247.7	233.5	204.3	173.4	144.2	107.9	78.7	61.0	38.0	29.2
127.5°	197.2	194.6	184.9	167.2	148.6	124.7	97.3	72.5	54.0	33.6	25.7
130°	160.1	158.3	153.0	145.1	131.8	112.3	88.5	67.2	47.8	30.1	23.0
132.5°	133.6	132.7	133.6	131.8	120.3	101.7	81.4	63.7	42.5	26.5	20.3
135°	124.7	124.7	128.3	125.6	112.3	92.0	74.3	58.4	37.2	23.0	17.7
137.5°	131.8	130.9	128.3	116.8	100.0	81.4	66.3	51.3	31.8	19.5	15.9
140°	129.1	128.3	120.3	105.3	86.7	71.6	58.4	44.2	26.5	16.8	13.3
142.5°	113.2	112.3	104.4	90.2	74.3	61.9	51.3	37.2	22.1	13.3	10.6
145°	91.1	91.1	84.0	74.3	62.8	53.1	44.2	29.2	16.8	10.6	8.0
147.5°	71.6	70.8	67.2	61.0	52.2	46.0	36.3	23.9	13.3	8.8	7.1
150°	58.4	57.5	54.0	49.5	44.2	38.9	28.3	17.7	9.7	7.1	6.2
152.5°	46.9	46.0	44.2	40.7	37.2	30.1	21.2	12.4	8.0	6.2	5.3
155°	37.2	37.2	35.4	32.7	29.2	23.0	15.0	8.8	6.2	5.3	4.4
157.5°	29.2	29.2	27.4	24.8	21.2	15.9	10.6	7.1	5.3	4.4	4.4
160°	22.1	22.1	20.3	18.6	14.2	10.6	7.1	6.2	5.3	4.4	3.5
162.5°	15.9	15.0	14.2	12.4	8.8	8.0	6.2	5.3	4.4	3.5	3.5
165°	10.6	9.7	8.8	7.1	6.2	6.2	5.3	4.4	4.4	3.5	3.5
167.5°	6.2	5.3	5.3	5.3	5.3	4.4	4.4	4.4	4.4	3.5	3.5
170°	2.7	2.7	2.7	3.5	4.4	4.4	4.4	4.4	4.4	3.5	3.5
172.5°	0.9	0.9	1.8	2.7	3.5	4.4	4.4	4.4	4.4	3.5	3.5
175°	0.0	0.9	1.8	2.7	3.5	4.4	4.4	4.4	4.4	3.5	2.7
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°	3863.6	3863.6	3863.6	3863.6	3863.6	3863.6	3863.6	3863.6	3863.6	3863.6
2.5°	3871.6	3894.6	3879.5	3819.4	3727.4	3661.1	3580.6	3533.7	3527.5	3529.3
5°	3876.9	3830.9	3614.2	3424.0	3270.1	3063.1	2962.3	2872.9	2857.0	2860.6
7.5°	3876.9	3654.9	3347.9	2978.2	2742.9	2554.5	2462.5	2405.9	2384.7	2367.9
10°	3848.6	3449.7	3006.5	2626.2	2414.8	2277.7	2132.6	2018.5	1939.8	1946.8
12.5°	3771.6	3261.3	2701.4	2382.0	2152.9	1861.0	1585.1	1404.6	1325.0	1316.2
15°	3646.0	3018.9	2464.3	2166.2	1739.0	1346.3	1146.3	1029.6	989.8	982.7
17.5°	3501.8	2805.7	2284.7	1820.4	1306.4	1037.6	876.6	778.4	731.5	726.2
20°	3347.1	2559.8	2068.9	1448.0	1025.2	802.3	689.9	628.9	605.0	606.8
22.5°	3196.7	2364.3	1792.9	1149.9	812.9	659.9	588.2	559.0	541.3	535.1
25°	3043.7	2191.9	1520.5	917.3	673.1	574.1	521.9	495.3	475.9	471.5
27.5°	2883.6	2032.6	1256.9	757.2	589.1	511.3	471.5	441.4	423.7	419.3
30°	2718.2	1859.3	1042.0	650.1	521.0	460.8	424.6	399.8	389.2	389.2
32.5°	2567.8	1668.2	864.2	569.6	467.9	420.2	389.2	372.4	363.5	361.8
35°	2403.3	1468.3	732.4	511.3	428.1	383.0	357.3	338.8	323.7	323.7
37.5°	2234.3	1278.1	631.6	460.0	391.8	351.2	323.7	304.3	293.7	292.8
40°	2058.3	1096.8	558.1	415.7	356.5	320.2	292.8	270.7	257.4	256.5
42.5°	1871.7	941.1	495.3	375.0	324.6	288.4	256.5	228.2	214.1	211.4
45°	1685.9	805.8	443.1	338.8	291.0	251.2	213.2	185.8	171.6	170.7
47.5°	1505.5	689.0	397.2	305.2	257.4	213.2	173.4	145.9	132.7	130.9
50°	1338.3	588.2	355.6	276.9	223.8	176.0	137.1	113.2	104.4	103.5
51°	1279.9	555.5	339.7	266.2	211.4	161.0	122.9	101.7	92.9	92.0
52.5°	1198.5	512.1	318.4	250.3	191.1	142.4	106.1	86.7	77.0	76.1
55°	1061.4	445.8	289.2	222.0	159.2	112.3	80.5	63.7	53.1	52.2
57.5°	931.4	394.5	264.5	193.7	130.0	85.8	56.6	41.6	34.5	33.6
60°	797.8	350.3	242.4	166.3	104.4	61.9	35.4	23.0	17.7	16.8
62.5°	672.2	309.6	218.5	140.6	79.6	41.6	17.7	6.2	6.2	6.2
65°	559.9	273.3	193.7	115.9	57.5	23.9	3.5	0.0	0.0	0.0
67.5°	459.1	243.2	168.1	93.8	38.9	7.1	0.0	0.0	0.0	0.0
70°	371.5	212.3	144.2	73.4	22.1	0.0	0.0	0.0	0.0	0.0
72.5°	297.2	180.4	121.2	54.8	9.7	0.0	0.0	0.0	0.0	0.0
75°	231.7	152.1	99.1	38.9	1.8	0.0	0.0	0.0	0.0	0.0
77.5°	179.6	125.6	79.6	26.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	137.1	102.6	61.0	16.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	101.7	81.4	46.9	10.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	73.4	63.7	36.3	7.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	54.0	51.3	28.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0
90°	43.3	41.6	22.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	38.0	34.5	18.6	2.7	0.0	0.0	0.0	0.0	0.0	0.0
95°	36.3	30.1	14.2	2.7	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	35.4	26.5	12.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0
100°	35.4	23.9	10.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	35.4	21.2	8.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
105°	35.4	19.5	8.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	35.4	18.6	7.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P979152
 CATALOG NUMBER: WPMLD26S-80W-6500K

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	35.4	17.7	6.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	34.5	16.8	5.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0
115°	33.6	15.0	4.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	31.0	13.3	4.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0
120°	27.4	11.5	3.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	24.8	10.6	3.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0
125°	22.1	8.8	3.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	19.5	8.0	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
130°	16.8	7.1	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	15.0	7.1	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
135°	13.3	6.2	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	11.5	5.3	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
140°	9.7	4.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	8.0	3.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	7.1	3.5	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	6.2	3.5	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
150°	5.3	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	4.4	2.7	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
155°	3.5	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	3.5	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	2.7	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	2.7	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	2.7	1.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	2.7	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	2.7	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	2.7	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	2.7	1.8	0.9	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.

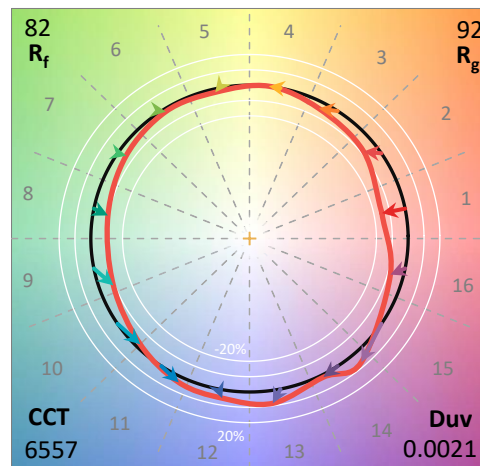
Test Information

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

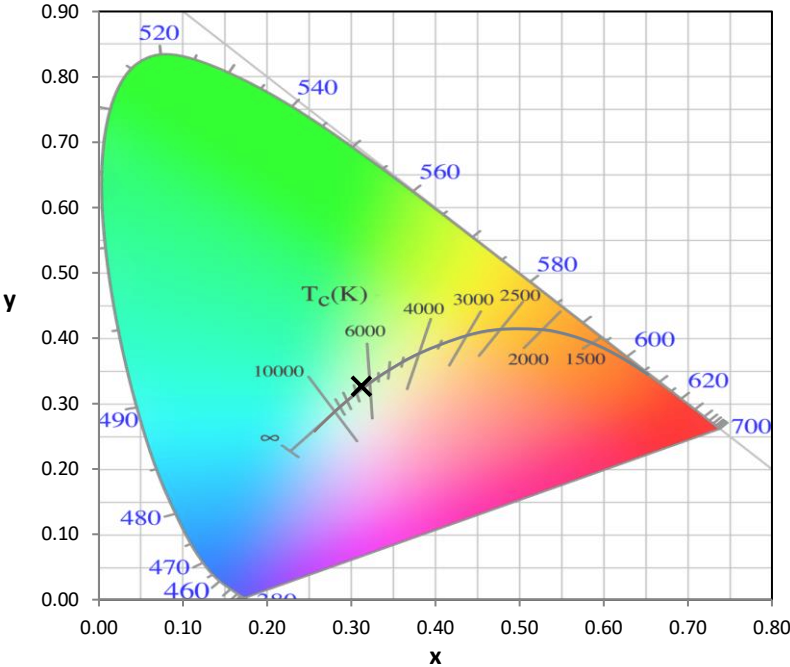
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2407-168-5

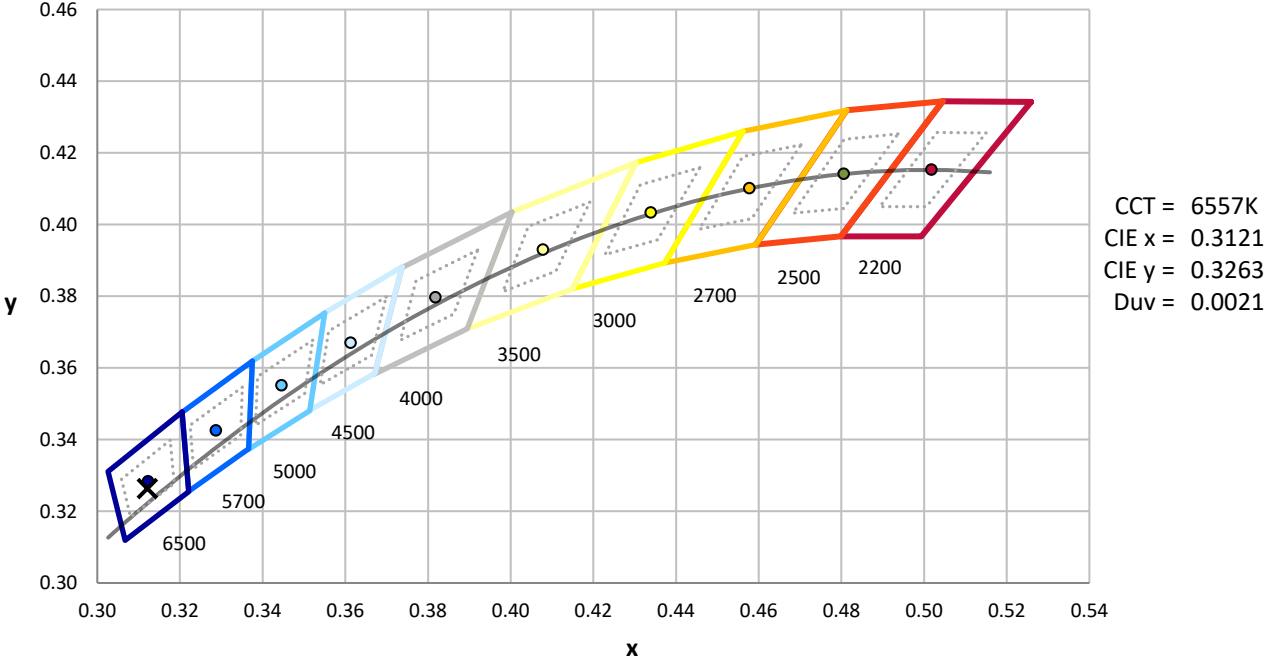
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

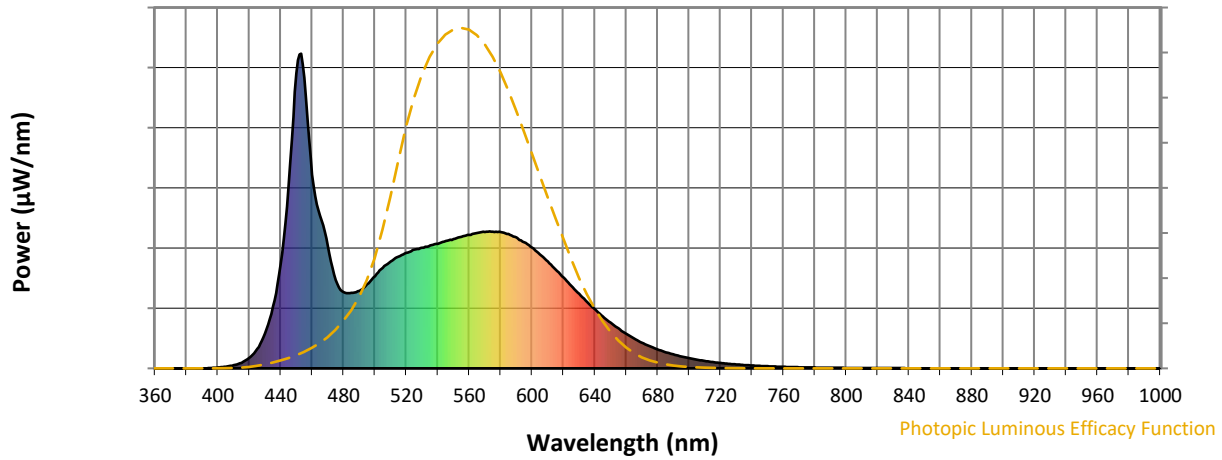


CCT = 6557K
 CIE x = 0.3121
 CIE y = 0.3263
 Duv = 0.0021

Point lies inside the ANSI 6500K 4-step quadrangle

REPORT NUMBER: SP1-2407-168-5

Photopic Flux vs. Wavelength

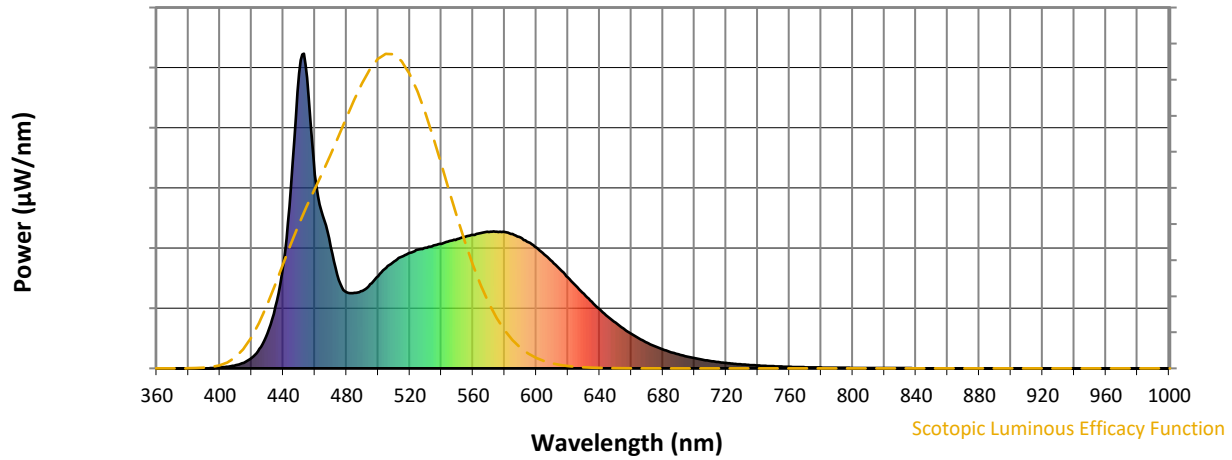


Photopic Lumens: NR

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

REPORT NUMBER: SP1-2407-168-5

Scotopic Flux vs. Wavelength



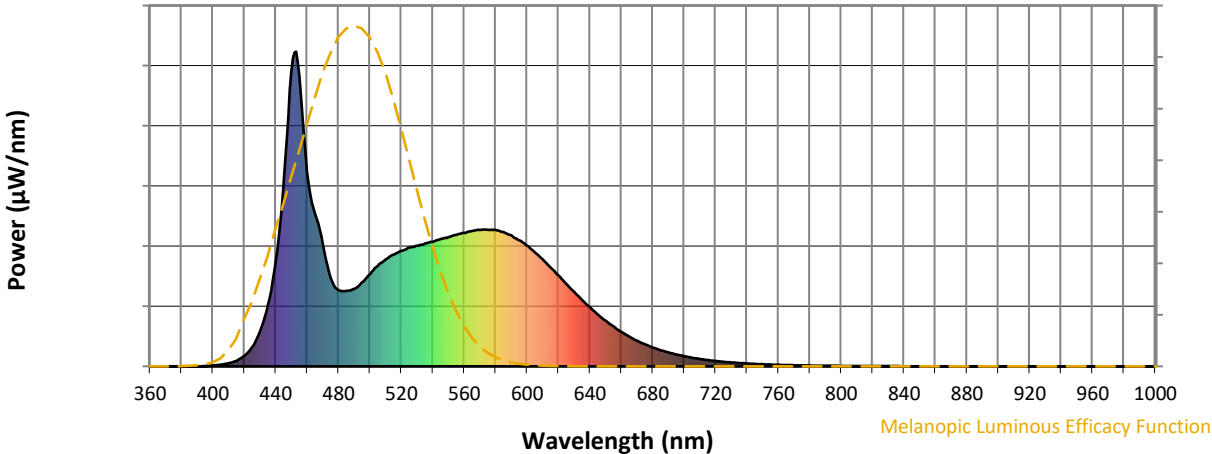
Scotopic Lumens: NR

S/P: 2.27

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

REPORT NUMBER: SP1-2407-168-5

Melanopic Flux vs. Wavelength

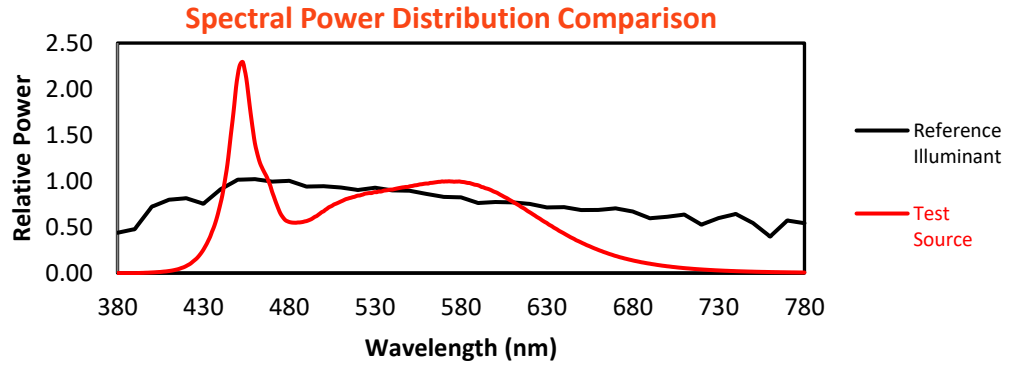


Melanopic Lumens: NR M/P: 5.06

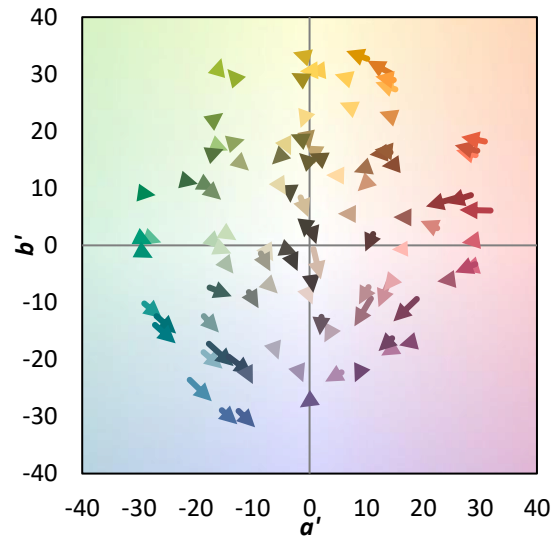
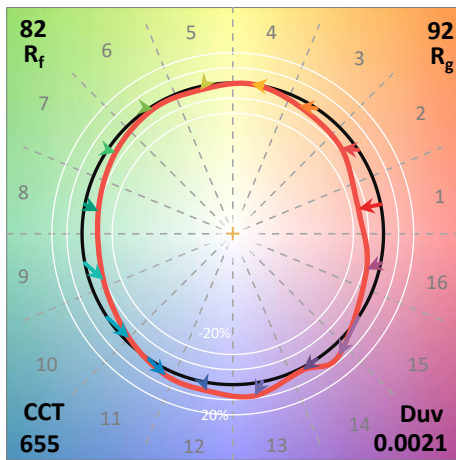
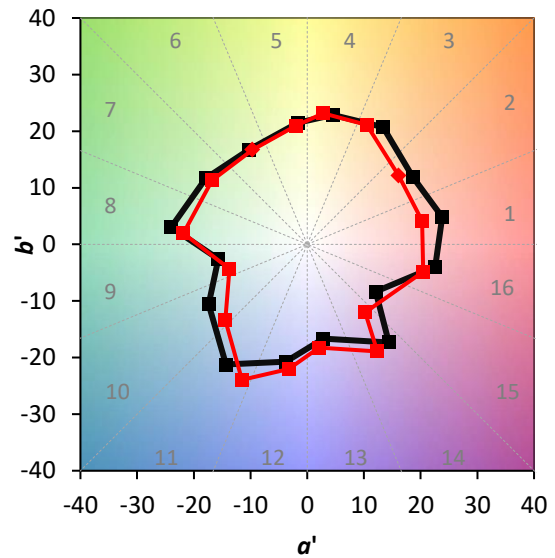
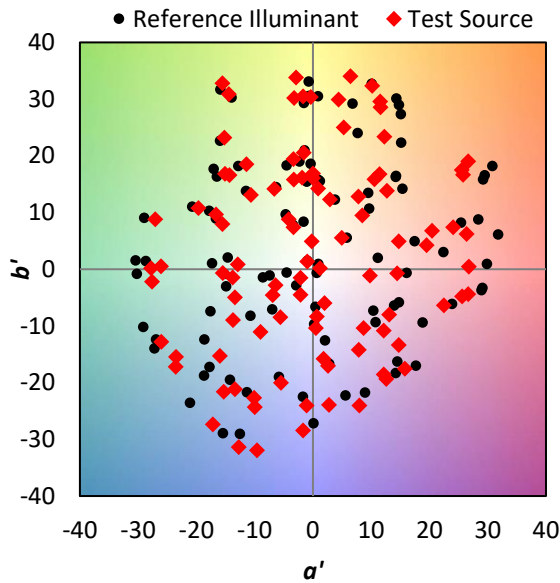
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	246	NR	620	288	NR	750	7	NR	880	0	NR
365	0	NR	495	267	NR	625	262	NR	755	6	NR	885	0	NR
370	0	NR	500	293	NR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

Summary

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

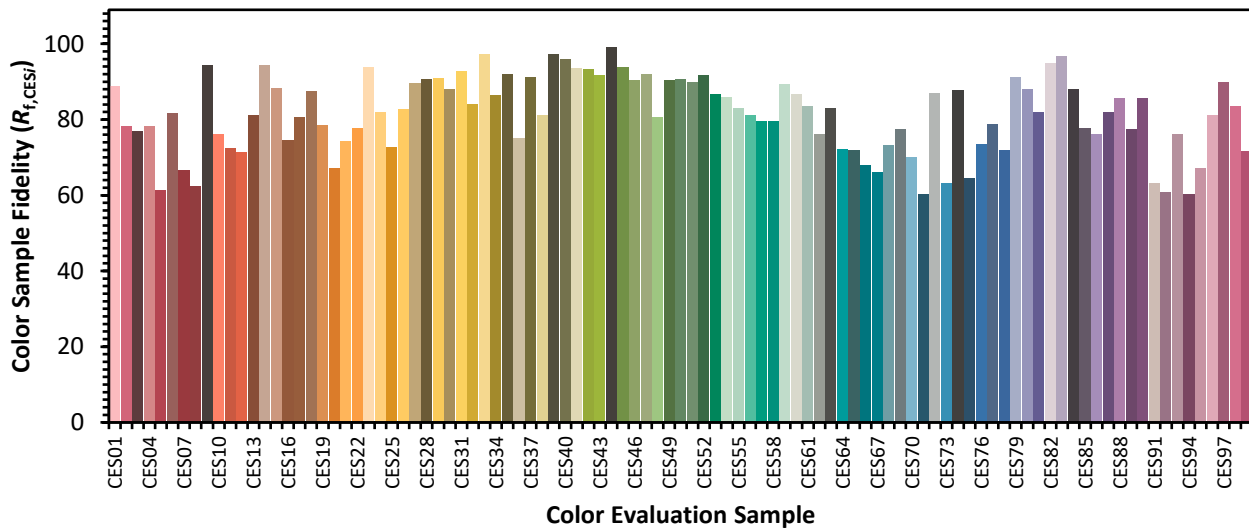


Color Vector Graphics

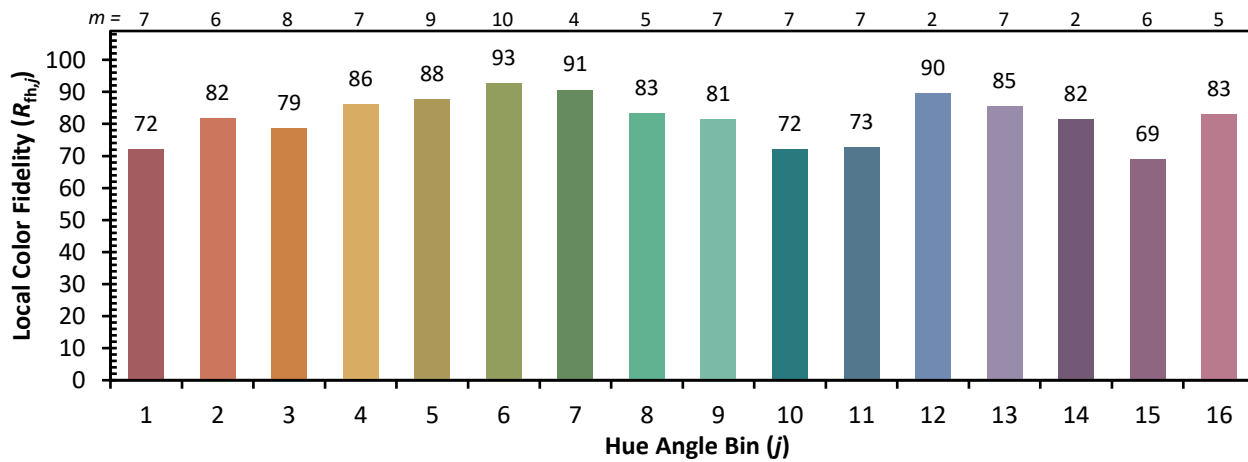
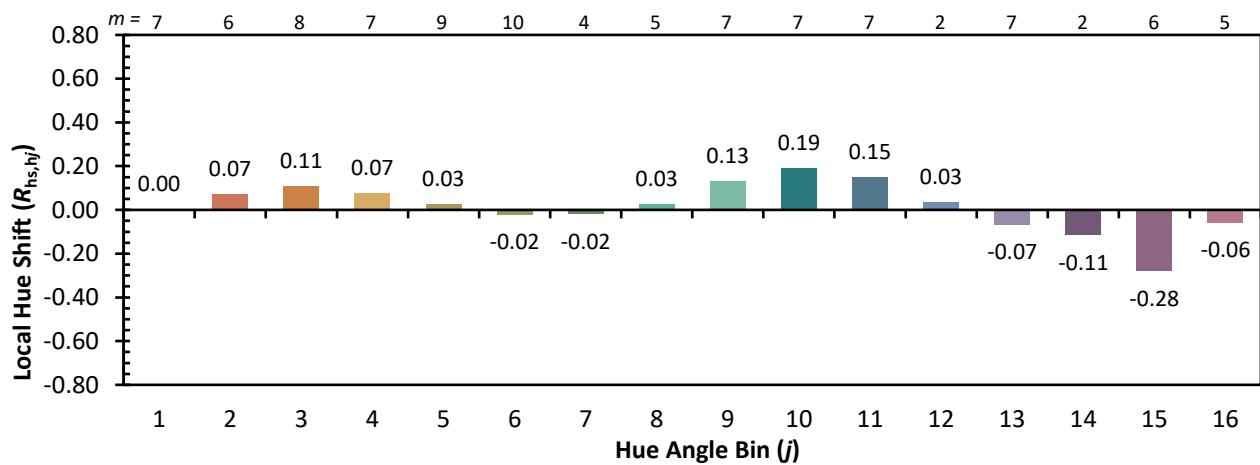
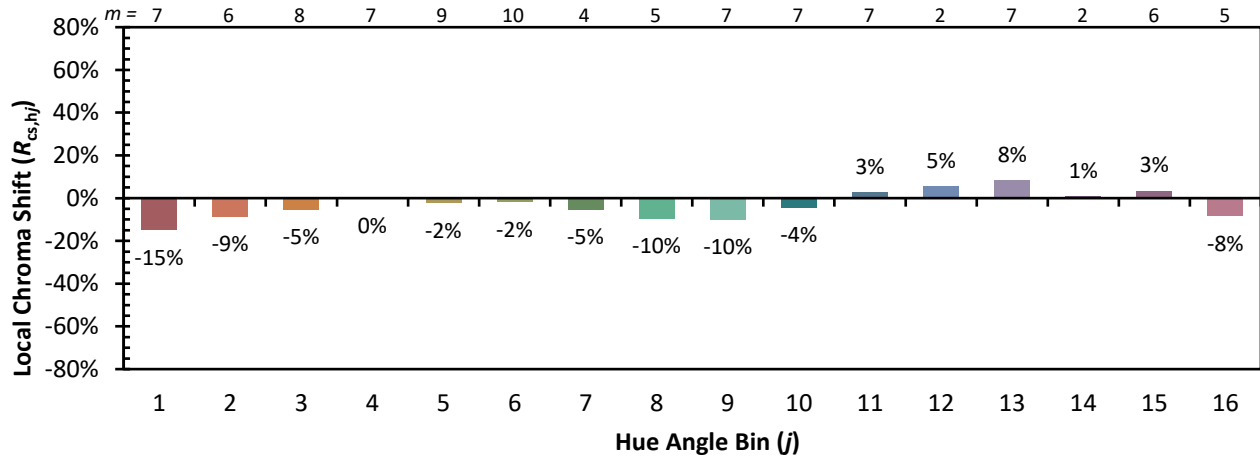


Individual Sample Fidelity Index ($R_{f,i}$)

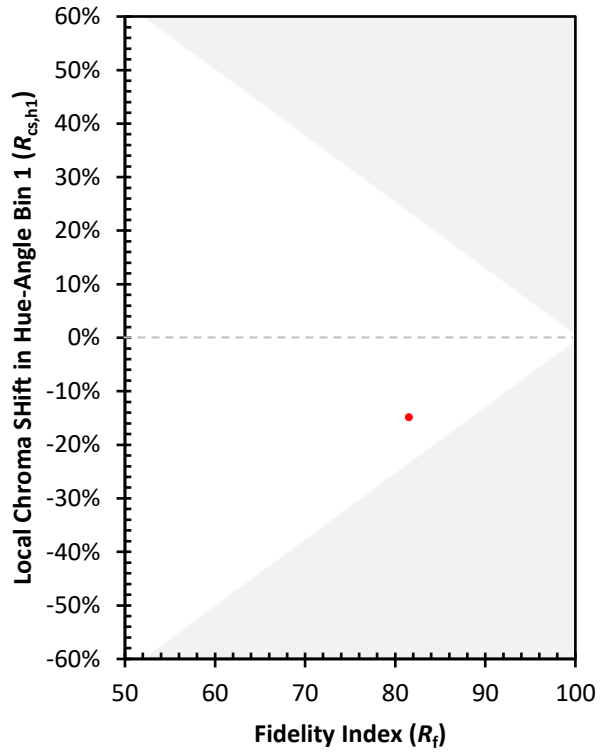
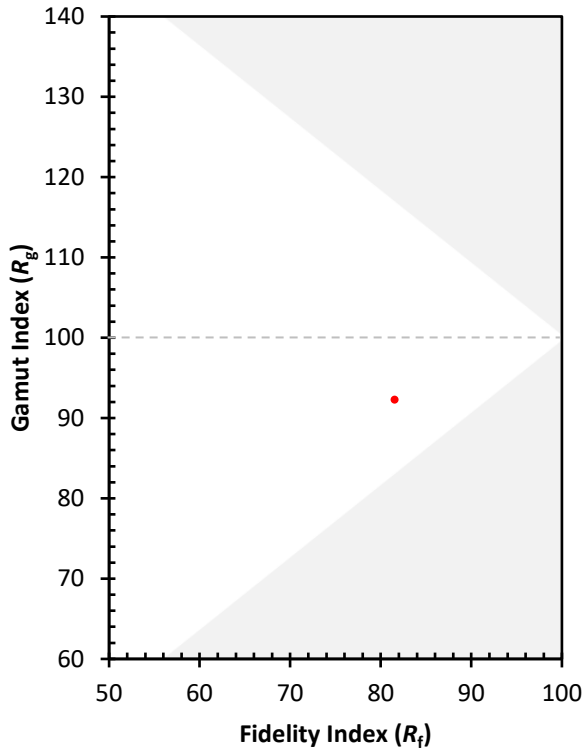
CES01 = 85	CES26 = 83	CES51 = 90	CES76 = 74
CES02 = 59	CES27 = 90	CES52 = 92	CES77 = 79
CES03 = 30	CES28 = 91	CES53 = 87	CES78 = 72
CES04 = 68	CES29 = 91	CES54 = 86	CES79 = 91
CES05 = 45	CES30 = 88	CES55 = 83	CES80 = 88
CES06 = 49	CES31 = 93	CES56 = 81	CES81 = 82
CES07 = 38	CES32 = 84	CES57 = 80	CES82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



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)