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: P979158

Luminaire Tested: **WPLLED38S-150W-3000K**

Issue Date: 03/31/2025

Report Generated By 670245763

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

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P979158
Test Lab:	Cooper Lighting Solutions
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	LUMARK
Catalog Number:	WPLLED38S-150W-3000K
Description:	LUMARK WALL PACK LED LARGE 80CRI CCT AND LUMEN SELECTIVE FIXTURE OPERATING @150W-3000K
Light Source:	3000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	19969.8 lumens
Efficiency:	N/A
Efficacy:	132.8 lumens/watt
Luminous Opening:	Rectangular w/ Sides (W: 1.25' x L: 0.33' x H: 0.58')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U5 - G5

Input Watts (W):	150.4
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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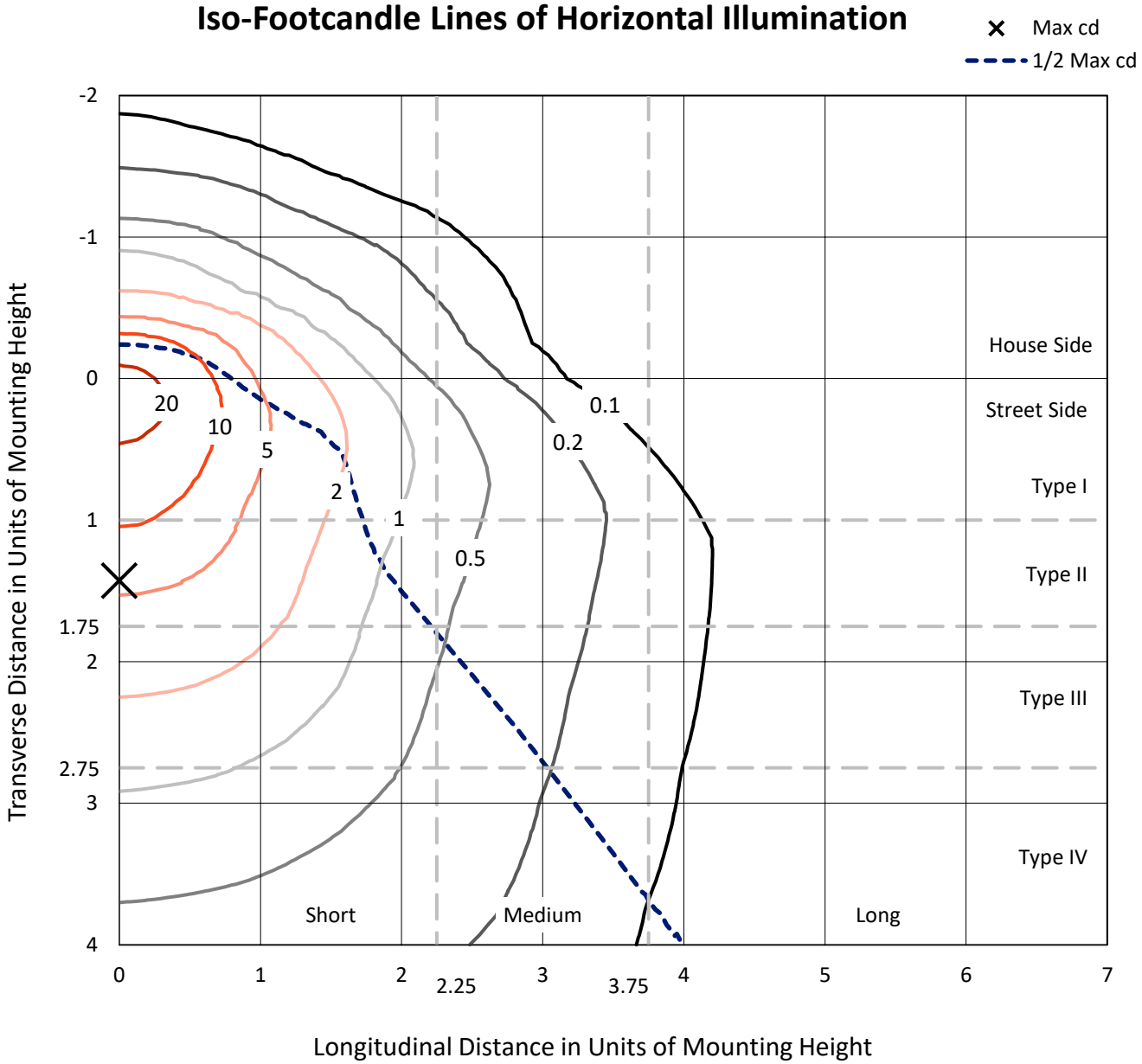
Iso-Footcandle Lines of Horizontal Illumination



Based on 15 foot mounting height. Maximum calculated value = 25 fc
Type IV - Short - N/A

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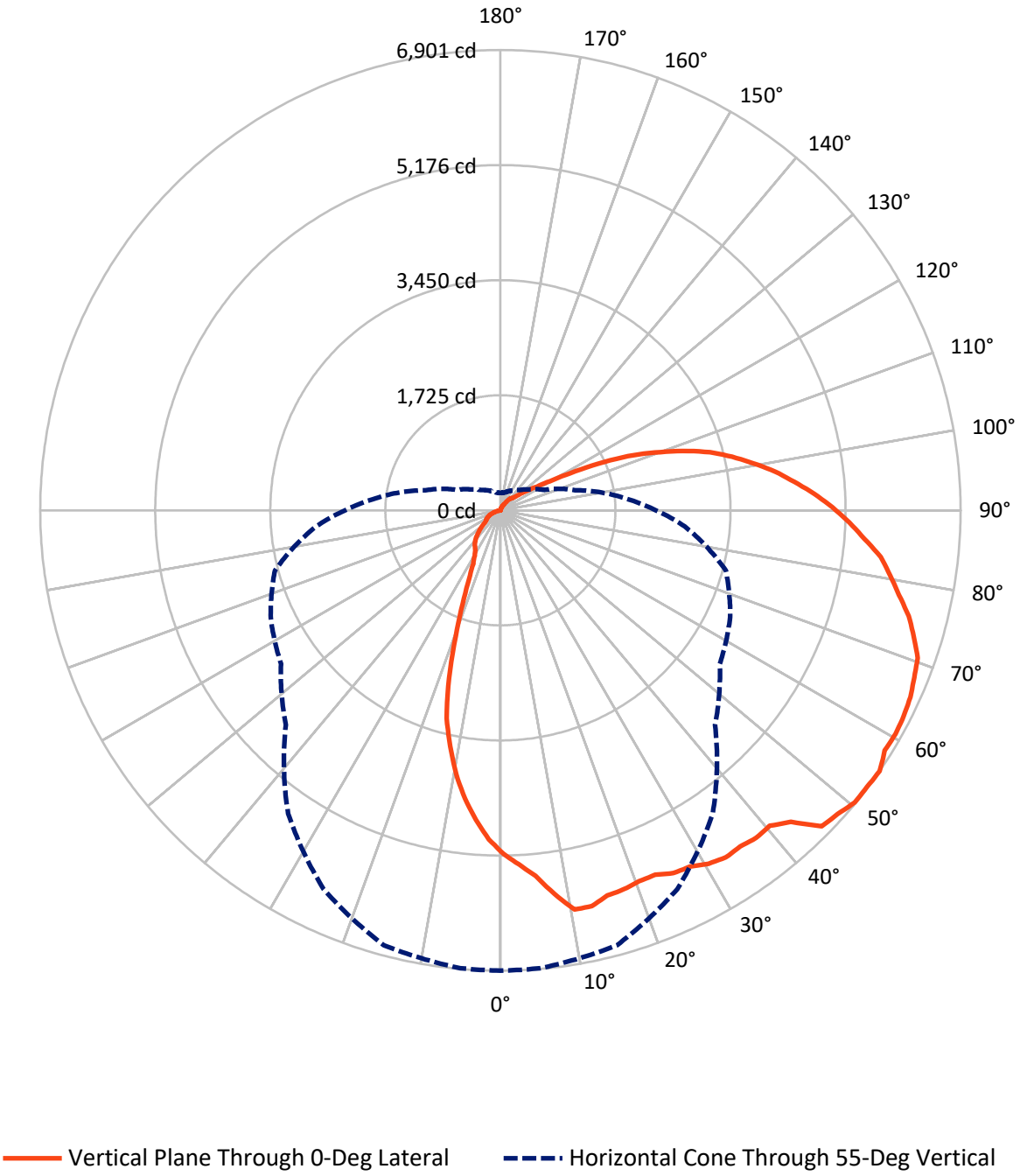
Luminous Intensity Polar Plot



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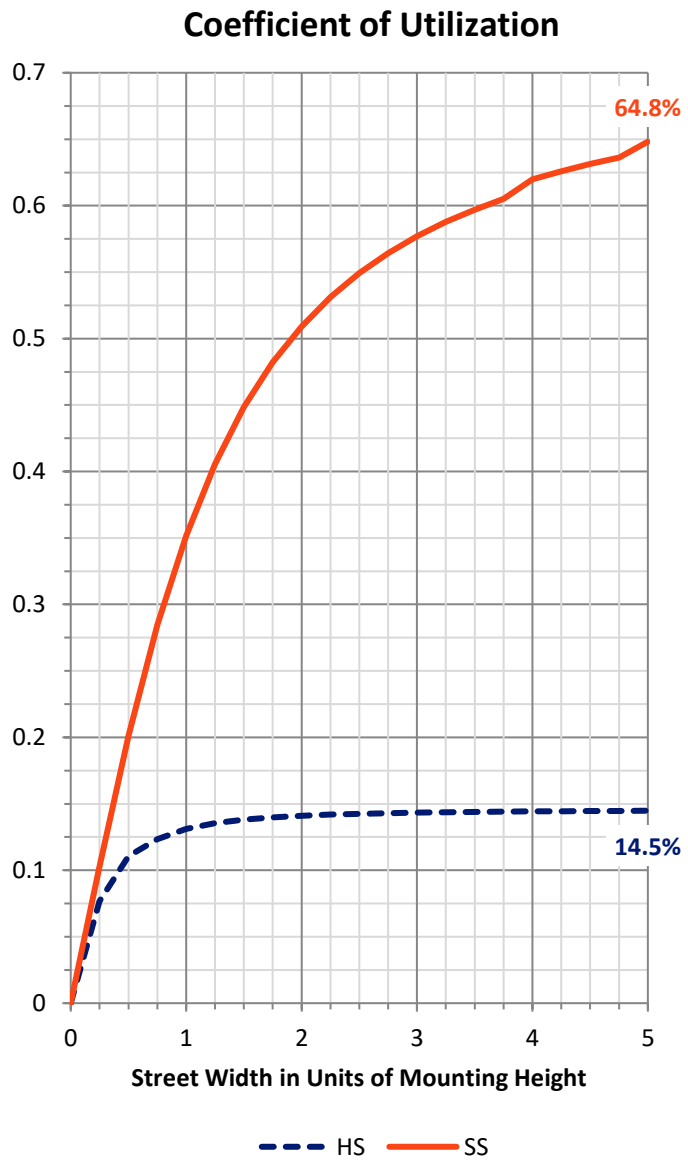
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2933.6	112.3	3045.9
	% Fixture	14.7	0.6	15.3
Street Side	Lumens	14194.0	2729.9	16923.9
	% Fixture	71.1	13.7	84.7
Total	Lumens	17127.6	2842.2	19969.8
	% Fixture	85.8	14.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.8	2.4
10°-20°	1352.6	6.8
20°-30°	1859.1	9.3
30°-40°	2154.8	10.8
40°-50°	2354.4	11.8
50°-60°	2492.7	12.5
60°-70°	2462.3	12.3
70°-80°	2198.0	11.0
80°-90°	1767.8	8.9
90°-100°	1312.8	6.6
100°-110°	840.8	4.2
110°-120°	385.8	1.9
120°-130°	156.1	0.8
130°-140°	81.8	0.4
140°-150°	41.3	0.2
150°-160°	16.2	0.1
160°-170°	5.7	0.0
170°-180°	1.6	0.0
0°-90°	17127.6	85.8
0°-180°	19969.8	100.0



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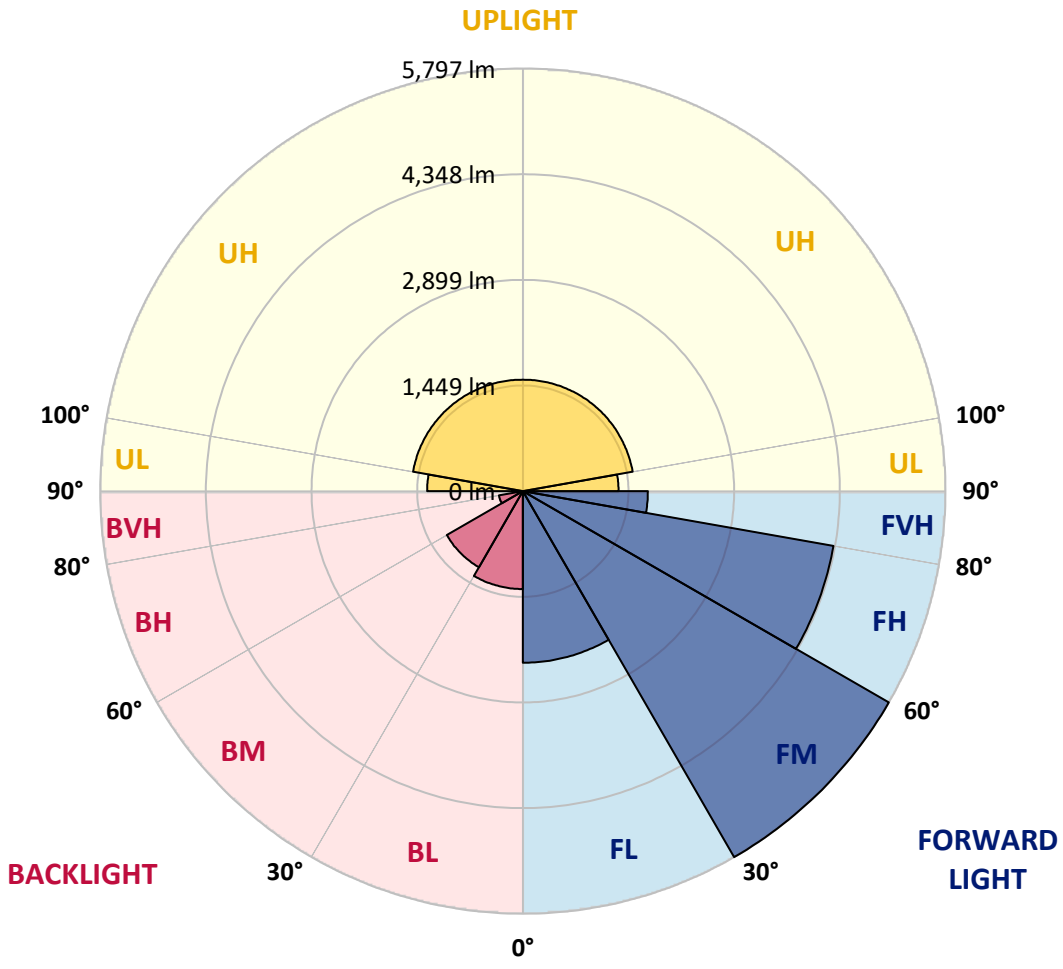
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2354.2	11.8			
FM	(30°-60°)	5797.2	29.0			
FH	(60°-80°)	4327.2	21.7			G2/5000
FVH	(80°-90°)	1715.4	8.6			G5
BL	(0°-30°)	1343.3	6.7	B3/2500		
BM	(30°-60°)	1204.7	6.0	B2/2500		
BH	(60°-80°)	333.1	1.7	B1/500		G1/500
BVH	(80°-90°)	52.4	0.3			G1/100
UL	(90°-100°)	1312.8	6.6		U5	
UH	(100°-180°)	1529.4	7.7		U5	

BUG Rating: B3-U5-G5
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5148.6	5148.6	5148.6	5148.6	5148.6	5148.6	5148.6	5148.6	5148.6	5148.6	5148.6
2.5°	5315.2	5315.2	5311.7	5296.4	5285.7	5292.8	5266.0	5208.6	5181.8	5156.7	5133.4
5°	5503.4	5497.1	5487.2	5452.3	5382.4	5306.3	5284.8	5223.0	5187.1	5136.1	5096.6
7.5°	5805.3	5845.6	5779.3	5655.7	5536.5	5517.7	5458.6	5383.3	5281.2	5164.7	5111.0
10°	6085.7	6121.5	6061.5	5984.5	5931.6	5791.0	5555.3	5433.5	5290.2	5125.3	5056.3
12.5°	6088.4	6118.8	6015.8	6011.3	6081.2	5960.3	5732.7	5432.6	5239.1	5049.2	4977.5
15°	5993.4	6031.9	5950.4	6043.6	6009.5	5963.0	5860.8	5531.1	5255.2	5028.6	4922.8
17.5°	5975.5	6026.6	5946.8	5997.0	5975.5	5902.9	5922.6	5607.3	5219.4	4956.9	4835.0
20°	5937.0	5987.1	5939.7	5896.7	5864.4	5835.7	5816.9	5684.3	5186.2	4880.7	4732.0
22.5°	5934.3	5959.4	5926.2	5853.7	5782.9	5745.3	5687.9	5661.9	5154.9	4771.4	4620.0
25°	6025.7	6052.5	5962.1	5868.0	5696.0	5635.1	5532.0	5515.9	5105.6	4666.6	4487.4
27.5°	6050.8	6077.6	5973.7	5868.0	5699.6	5504.3	5421.8	5341.2	5046.5	4515.2	4344.1
30°	6148.4	6184.2	6069.6	5876.1	5683.4	5401.2	5254.3	5150.4	4924.6	4371.9	4145.2
32.5°	6204.0	6249.6	6175.3	5945.0	5653.0	5350.2	5076.9	4978.4	4837.7	4196.3	3976.8
35°	6190.5	6255.9	6187.8	5993.4	5659.3	5291.9	4909.4	4803.7	4671.1	4011.7	3767.2
37.5°	6230.8	6293.5	6187.8	5985.4	5633.3	5208.6	4835.9	4606.6	4485.7	3809.3	3529.8
40°	6218.3	6272.9	6115.3	5946.8	5600.1	5118.1	4711.4	4442.7	4275.1	3583.5	3294.1
42.5°	6384.9	6419.9	6201.3	5936.1	5514.1	4997.2	4603.0	4311.0	4081.6	3392.7	3093.5
45°	6755.8	6798.8	6463.8	6023.0	5483.7	4895.1	4462.4	4173.0	3927.5	3234.1	2908.0
47.5°	6805.1	6839.1	6635.8	6143.9	5514.1	4804.6	4385.3	4079.8	3786.9	3109.6	2753.0
50°	6883.9	6892.9	6688.6	6230.8	5530.3	4731.1	4285.0	4014.4	3692.8	2987.8	2615.1
52.5°	6884.8	6893.8	6723.6	6266.7	5532.0	4645.1	4188.2	3919.5	3607.7	2883.8	2487.0
55°	6900.9	6889.3	6749.5	6268.5	5550.0	4551.1	4015.3	3801.2	3501.1	2776.3	2332.0
57.5°	6795.2	6775.5	6666.2	6254.1	5558.9	4474.0	3873.8	3674.9	3421.4	2679.6	2187.7
60°	6806.9	6756.7	6650.1	6218.3	5509.6	4357.5	3752.8	3523.5	3326.4	2561.3	2028.3
62.5°	6788.1	6728.0	6614.3	6191.4	5455.9	4278.7	3628.3	3364.0	3202.8	2438.6	1840.1
65°	6754.0	6682.3	6582.9	6170.8	5397.7	4200.8	3480.5	3221.6	3092.6	2232.5	1607.2
67.5°	6693.1	6611.6	6513.9	6104.5	5333.2	4113.9	3332.7	3054.0	2922.4	1993.3	1359.0
70°	6637.6	6548.9	6443.1	6013.1	5259.7	3998.3	3203.7	2888.3	2741.4	1726.4	1086.7
72.5°	6483.5	6387.6	6283.7	5857.2	5149.5	3889.9	3058.5	2704.7	2502.2	1399.4	818.8
75°	6323.1	6234.4	6121.5	5727.3	5025.0	3758.2	2930.4	2513.8	2245.1	1093.0	602.0
77.5°	6110.8	6006.0	5889.5	5515.0	4834.2	3599.6	2783.5	2324.8	1944.1	808.1	459.6
80°	5926.2	5813.3	5710.3	5340.3	4668.4	3434.8	2651.8	2132.2	1643.9	571.6	376.3
82.5°	5746.2	5610.9	5490.8	5130.7	4461.5	3258.3	2487.9	1962.0	1368.9	416.6	310.0
85°	5475.6	5339.4	5216.7	4878.1	4212.4	3053.1	2341.8	1788.2	1105.5	325.2	258.0
87.5°	5237.3	5137.9	4994.5	4625.4	3959.8	2853.4	2153.7	1599.1	875.3	266.1	216.8
90°	4981.1	4872.7	4734.7	4358.4	3697.3	2647.3	1971.8	1412.8	683.6	230.2	189.9
92.5°	4714.1	4612.9	4470.4	4086.1	3437.5	2455.6	1801.6	1212.1	546.5	203.4	175.6
95°	4428.3	4364.7	4197.2	3833.5	3171.4	2241.5	1621.5	1029.4	447.0	188.1	165.7
97.5°	4163.1	4085.2	3933.8	3569.2	2882.9	2048.0	1445.1	853.8	371.8	177.4	158.6
100°	3857.6	3786.9	3633.7	3266.4	2580.1	1830.3	1239.9	697.9	314.5	170.2	154.1
102.5°	3566.5	3515.4	3352.4	2951.9	2273.7	1583.9	1032.1	567.1	271.5	166.6	148.7
105°	3261.0	3214.4	3052.3	2628.5	1972.7	1346.5	834.1	459.6	242.8	164.8	145.1
107.5°	2877.6	2852.5	2673.3	2228.0	1642.1	1111.8	679.1	377.2	222.2	163.0	141.5
110°	2471.7	2465.5	2251.3	1850.0	1345.6	891.4	544.7	318.9	206.1	158.6	137.1

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REPORT NUMBER: P979158
CATALOG NUMBER: WPLLED38S-150W-3000K

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	*2079.3*	2006.8	1842.8	1429.8	1053.6	702.4	439.9	276.8	192.6	152.3	130.8
115°	*1626.9*	1582.1	1405.6	1109.1	816.1	557.2	369.1	241.9	183.7	144.2	123.6
117.5°	*1179.0*	1140.5	1021.3	850.2	647.7	465.9	310.9	219.5	174.7	133.5	114.7
120°	*860.0*	849.3	758.8	645.9	537.5	398.7	269.7	198.9	163.9	121.8	103.9
122.5°	*647.7*	640.6	602.9	533.9	461.4	343.1	240.1	182.8	151.4	110.2	94.1
125°	*533.0*	519.6	495.4	451.5	387.9	300.1	220.4	171.1	137.1	98.5	84.2
127.5°	*431.8*	432.7	413.0	377.2	338.6	267.0	206.1	163.0	123.6	86.0	75.3
130°	*354.8*	350.3	344.0	324.3	299.2	245.5	196.2	154.1	110.2	76.1	66.3
132.5°	*297.4*	295.6	291.2	278.6	262.5	227.6	187.2	143.3	97.7	68.1	60.0
135°	*259.8*	260.7	254.4	242.8	238.3	211.4	177.4	129.9	84.2	60.9	54.6
137.5°	*241.9*	241.0	226.7	215.9	215.0	198.0	163.0	115.6	74.4	55.5	51.1
140°	*223.1*	221.3	206.9	195.3	190.8	180.1	146.9	100.3	64.5	51.1	47.5
142.5°	*190.8*	187.2	179.2	172.0	164.8	159.5	126.3	86.0	55.5	46.6	43.9
145°	*145.1*	146.9	147.8	141.5	136.2	131.7	105.7	71.7	49.3	43.0	41.2
147.5°	*117.4*	115.6	116.5	114.7	111.1	103.9	86.9	59.1	43.9	40.3	38.5
150°	*95.9*	94.1	95.0	92.3	89.6	83.3	71.7	49.3	39.4	37.6	36.7
152.5°	*77.9*	77.9	78.8	76.1	73.5	67.2	55.5	41.2	35.8	34.9	34.9
155°	*62.7*	63.6	62.7	61.8	58.2	52.0	43.0	34.9	33.1	33.1	33.1
157.5°	*50.2*	50.2	50.2	49.3	44.8	41.2	34.9	30.5	31.4	32.3	32.3
160°	*37.6*	38.5	38.5	37.6	34.9	30.5	27.8	27.8	29.6	30.5	30.5
162.5°	*26.9*	26.0	27.8	27.8	24.2	22.4	24.2	26.0	28.7	29.6	29.6
165°	*16.1*	16.1	17.9	17.9	17.9	17.9	21.5	25.1	27.8	28.7	29.6
167.5°	*9.0*	9.0	9.9	12.5	13.4	16.1	21.5	25.1	27.8	28.7	29.6
170°	*4.5*	4.5	6.3	9.9	12.5	16.1	22.4	26.0	27.8	28.7	29.6
172.5°	*2.7*	3.6	6.3	9.9	12.5	17.0	22.4	26.0	27.8	29.6	29.6
175°	*3.6*	3.6	6.3	9.9	13.4	17.0	22.4	26.0	28.7	29.6	30.5
177.5°	*3.6*	4.5	7.2	10.8	13.4	17.0	23.3	26.0	28.7	29.6	30.5
180°	*17.0*	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5148.6	5148.6	5148.6	5148.6	5148.6	5148.6	5148.6	5148.6	5148.6	5148.6
2.5°	5105.6	5085.9	5059.9	5019.6	4990.9	4977.5	4968.5	4938.1	4940.8	4935.4
5°	5061.7	4996.3	4937.2	4861.9	4783.1	4743.7	4703.4	4680.1	4645.1	4653.2
7.5°	5069.8	4975.7	4858.3	4709.6	4599.4	4515.2	4442.7	4429.2	4379.9	4354.0
10°	5003.5	4865.5	4693.5	4538.5	4384.4	4252.7	4139.8	4119.2	4035.9	4014.4
12.5°	4900.4	4711.4	4509.0	4327.1	4153.3	3934.7	3800.3	3739.4	3653.4	3613.1
15°	4836.8	4594.1	4350.4	4108.5	3853.2	3632.8	3428.5	3304.9	3204.6	3219.8
17.5°	4723.1	4444.4	4151.5	3853.2	3524.4	3263.7	2967.1	2739.6	2635.7	2633.0
20°	4607.5	4280.5	3947.2	3572.8	3168.7	2779.0	2430.5	2140.3	2044.4	2002.3
22.5°	4461.5	4095.1	3702.7	3270.8	2764.7	2232.5	1878.7	1642.1	1522.1	1505.1
25°	4302.0	3884.5	3430.3	2940.3	2282.7	1780.1	1420.9	1218.4	1135.1	1124.3
27.5°	4113.9	3683.0	3172.3	2532.6	1853.6	1363.5	1093.9	953.2	904.8	895.9
30°	3907.8	3443.8	2875.8	2120.5	1476.4	1064.3	887.8	811.7	786.6	783.0
32.5°	3723.3	3222.5	2594.5	1795.3	1188.8	890.5	792.0	740.0	719.4	710.4
35°	3492.1	2951.0	2278.2	1492.5	976.5	794.6	727.5	688.0	674.6	669.2
37.5°	3238.6	2704.7	1987.1	1249.7	853.8	731.9	681.8	652.2	642.3	639.7
40°	2993.1	2452.9	1713.8	1042.8	758.8	675.5	637.9	601.1	592.2	593.1
42.5°	2791.6	2230.7	1454.9	871.7	682.7	622.6	581.4	559.9	545.6	542.0
45°	2598.9	2018.4	1219.3	754.3	625.3	560.8	530.4	496.3	480.2	477.5
47.5°	2434.1	1794.4	1015.0	688.9	575.2	520.5	468.5	428.2	415.7	413.0
50°	2250.4	1557.0	883.3	637.0	521.4	462.3	413.9	370.9	350.3	350.3
52.5°	2091.0	1352.8	786.6	593.1	477.5	416.6	362.8	320.7	293.8	291.2
55°	*1919.9*	*1160.2*	*722.1*	*544.7*	*432.7*	*366.4*	*318.9*	*278.6*	*261.6*	*262.5*
57.5°	1742.5	1013.2	676.4	501.7	382.5	322.5	278.6	249.1	249.1	254.4
60°	1543.6	891.4	639.7	456.0	335.1	280.4	245.5	222.2	226.7	230.2
62.5°	1334.0	796.4	602.0	407.6	294.7	240.1	209.6	198.9	207.8	209.6
65°	1116.3	726.6	559.0	361.0	255.3	209.6	179.2	181.0	187.2	189.0
67.5°	906.6	661.2	501.7	316.2	219.5	172.9	161.3	158.6	167.5	167.5
70°	720.3	606.5	445.3	272.3	184.6	144.2	137.1	134.4	138.9	137.1
72.5°	600.2	544.7	385.2	231.1	151.4	118.3	112.0	111.1	108.4	106.6
75°	512.4	479.3	333.3	192.6	122.7	95.9	84.2	81.5	76.1	76.1
77.5°	442.6	407.6	277.7	158.6	99.4	73.5	57.3	48.4	45.7	43.9
80°	379.9	342.2	230.2	127.2	75.3	48.4	26.9	15.2	9.9	11.6
82.5°	321.6	284.0	191.7	103.0	54.6	24.2	5.4	0.9	0.0	0.0
85°	270.6	235.6	162.2	85.1	44.8	21.5	6.3	1.8	0.0	0.0
87.5°	227.6	198.9	139.8	74.4	40.3	20.6	7.2	2.7	0.9	0.0
90°	198.0	173.8	126.3	67.2	37.6	19.7	7.2	3.6	1.8	1.8
92.5°	179.2	156.8	114.7	61.8	34.9	19.7	8.1	4.5	2.7	2.7
95°	162.2	144.2	104.8	58.2	33.1	19.7	9.0	5.4	4.5	4.5
97.5°	149.6	132.6	97.7	54.6	32.3	19.7	9.9	6.3	5.4	4.5
100°	139.8	123.6	88.7	51.1	30.5	18.8	9.9	7.2	5.4	5.4
102.5°	133.5	116.5	81.5	47.5	29.6	18.8	9.9	7.2	5.4	5.4
105°	128.1	112.0	75.3	45.7	27.8	17.9	9.9	7.2	5.4	5.4
107.5°	123.6	107.5	69.9	43.0	26.9	17.0	9.9	7.2	5.4	5.4
110°	119.2	99.4	64.5	40.3	25.1	16.1	9.9	6.3	5.4	4.5

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

Scaled Data Report

REPORT NUMBER: P979158
CATALOG NUMBER: WPLLED38S-150W-3000K

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	112.9	90.5	59.1	37.6	24.2	15.2	9.0	6.3	4.5	4.5
115°	106.6	79.7	53.8	35.8	23.3	14.3	9.0	6.3	4.5	3.6
117.5°	98.5	70.8	49.3	33.1	22.4	13.4	9.0	5.4	3.6	3.6
120°	88.7	62.7	45.7	32.3	21.5	12.5	8.1	5.4	3.6	3.6
122.5°	79.7	57.3	43.0	30.5	20.6	12.5	8.1	5.4	3.6	2.7
125°	70.8	52.9	40.3	29.6	19.7	11.6	8.1	5.4	2.7	2.7
127.5°	62.7	48.4	38.5	29.6	19.7	11.6	8.1	5.4	2.7	2.7
130°	57.3	45.7	36.7	28.7	18.8	11.6	9.0	5.4	3.6	2.7
132.5°	52.9	43.0	35.8	28.7	18.8	12.5	9.0	5.4	3.6	3.6
135°	49.3	41.2	34.9	27.8	17.9	12.5	9.0	5.4	3.6	3.6
137.5°	46.6	39.4	34.0	26.9	17.9	12.5	9.9	6.3	4.5	3.6
140°	43.9	37.6	33.1	26.9	17.9	13.4	9.9	6.3	4.5	4.5
142.5°	41.2	36.7	31.4	26.0	17.9	13.4	9.9	6.3	4.5	4.5
145°	38.5	34.9	30.5	25.1	17.9	13.4	9.9	6.3	4.5	4.5
147.5°	36.7	34.0	29.6	24.2	17.0	13.4	9.9	6.3	4.5	3.6
150°	34.9	32.3	28.7	23.3	17.0	13.4	9.9	6.3	4.5	3.6
152.5°	34.0	31.4	27.8	22.4	17.0	13.4	9.9	6.3	3.6	3.6
155°	32.3	30.5	26.9	22.4	17.0	13.4	9.9	6.3	3.6	3.6
157.5°	31.4	29.6	26.0	22.4	17.0	12.5	9.9	5.4	3.6	3.6
160°	30.5	28.7	26.0	22.4	17.0	12.5	9.9	5.4	3.6	3.6
162.5°	29.6	28.7	26.0	22.4	17.0	12.5	9.0	5.4	3.6	3.6
165°	28.7	27.8	26.0	22.4	16.1	12.5	9.0	5.4	2.7	2.7
167.5°	29.6	27.8	26.0	22.4	16.1	12.5	9.0	4.5	2.7	2.7
170°	29.6	27.8	26.0	21.5	16.1	11.6	9.0	4.5	2.7	1.8
172.5°	29.6	28.7	26.0	21.5	16.1	12.5	9.0	4.5	2.7	1.8
175°	29.6	28.7	26.0	22.4	16.1	12.5	9.0	4.5	2.7	1.8
177.5°	29.6	28.7	26.0	22.4	16.1	11.6	9.0	4.5	2.7	1.8
180°	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0

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.

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

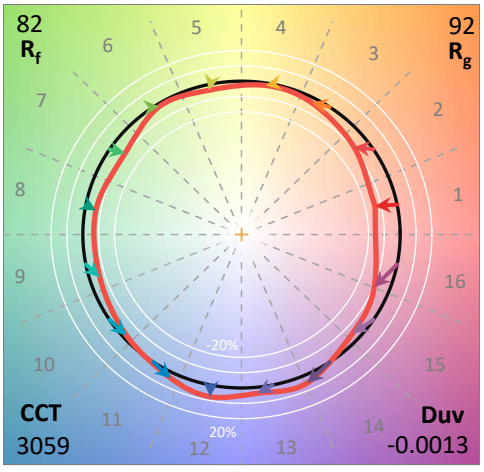
Test Information

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	CRI (Ra):	79.3		
CIE u':	0.2490	R1:	78.1	R9:	-8.3
CIE v':	0.5184	R2:	92.3	R10:	82.8
Duv:	-0.0013	R3:	91.2	R11:	73.1
CIE x:	0.4310	R4:	74.6	R12:	70.5
CIE y:	0.3988	R5:	78.8	R13:	81.8
CIE z:	0.1702	R6:	90.5	R14:	95.7
Peak Wavelength (nm):	600	R7:	77.6	R15:	69.8
Dominant Wavelength (nm):	583	R8:	50.9		
Purity:	49.0643				

Rf:	81.8
Rg:	91.9



Test Conditions

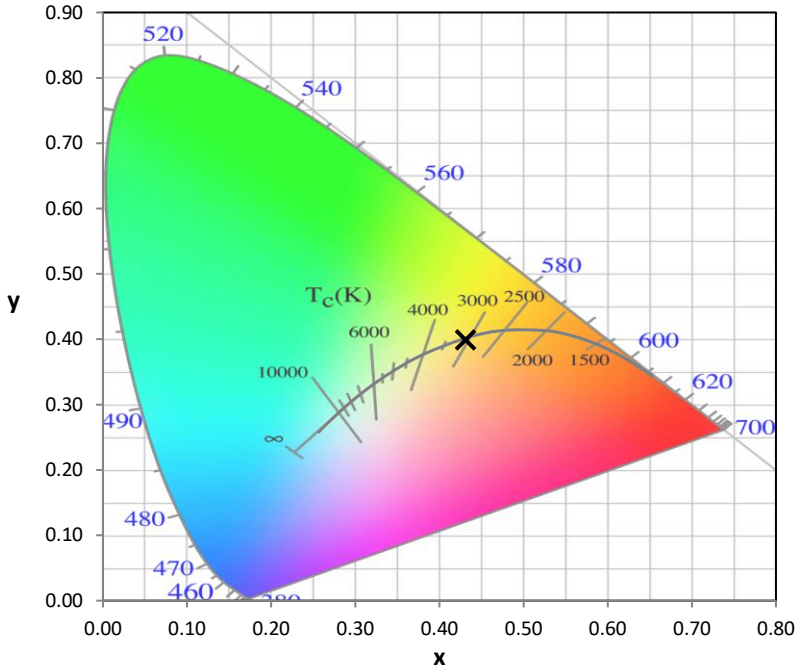
Stabilization Time:	51M
Operation Time:	1H 51M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2407-168-1

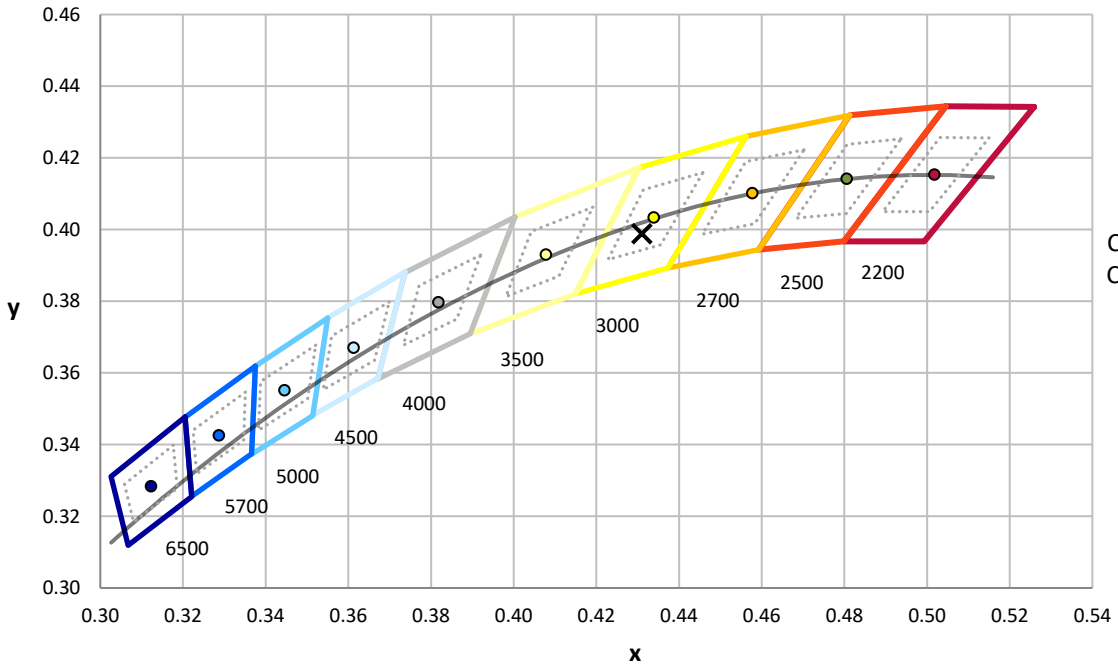
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

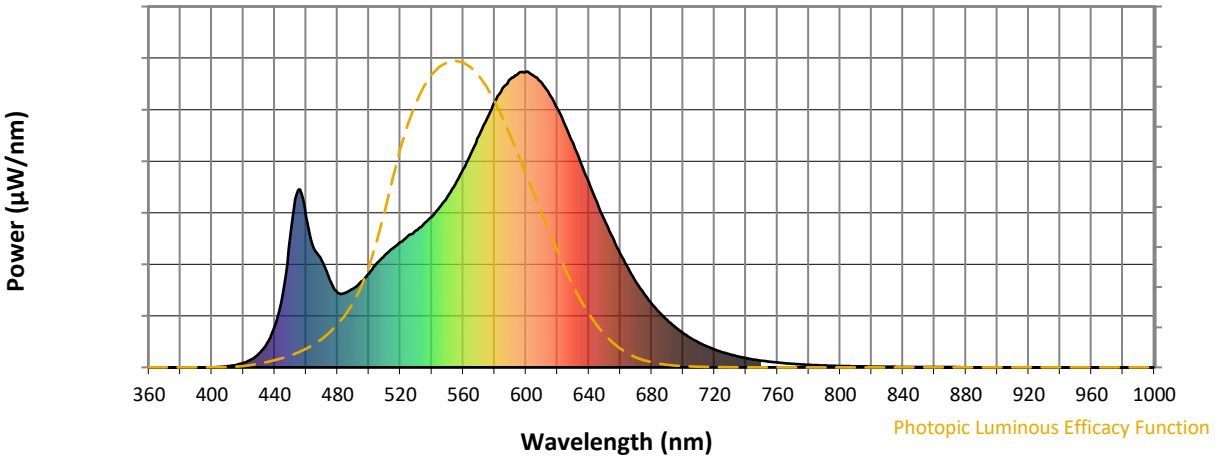


CCT = 3059K
CIE x = 0.4310
CIE y = 0.3988
Duv = -0.0013

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-168-1

Photopic Flux vs. Wavelength

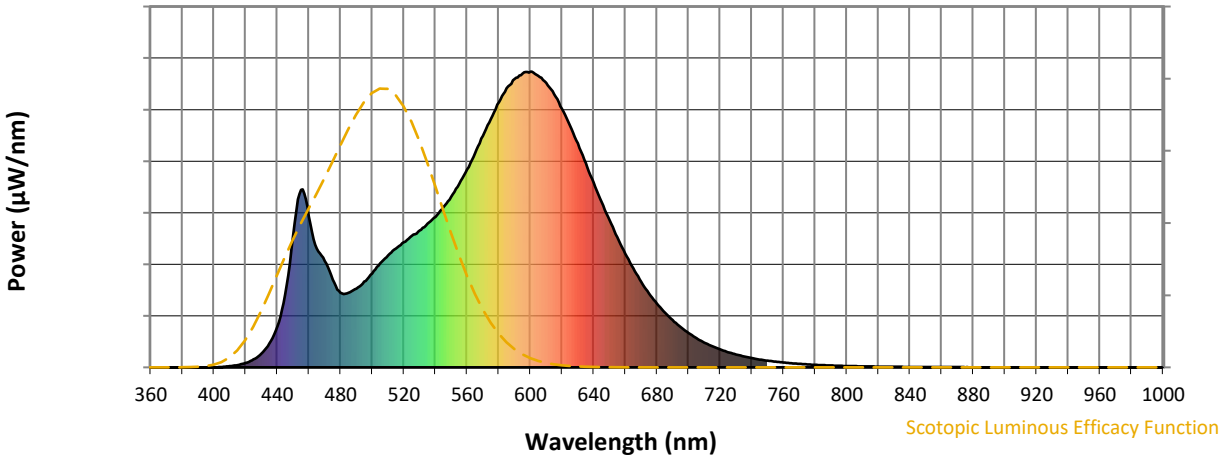


Photopic Lumens: NR

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

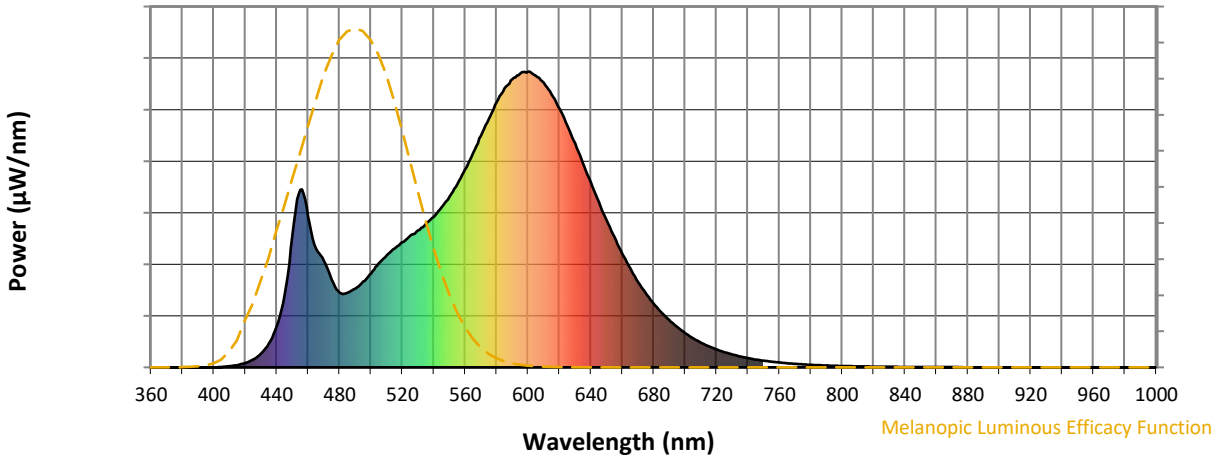


Scotopic Lumens: NR **S/P: 1.39**

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			

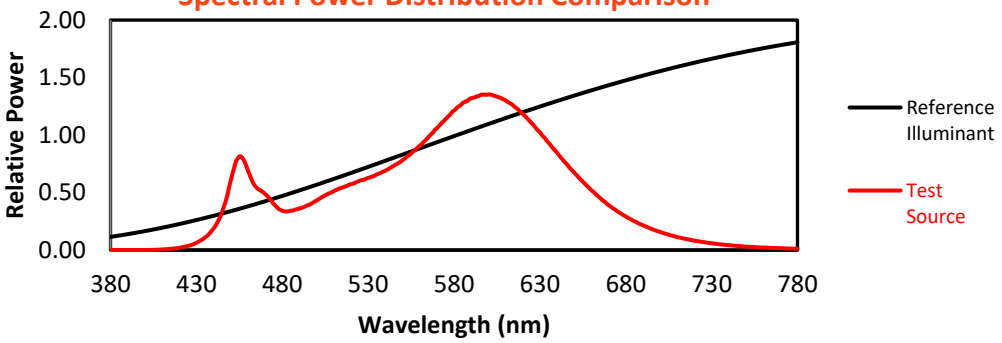
REPORT NUMBER: SP1-2407-168-1

TM-30-18

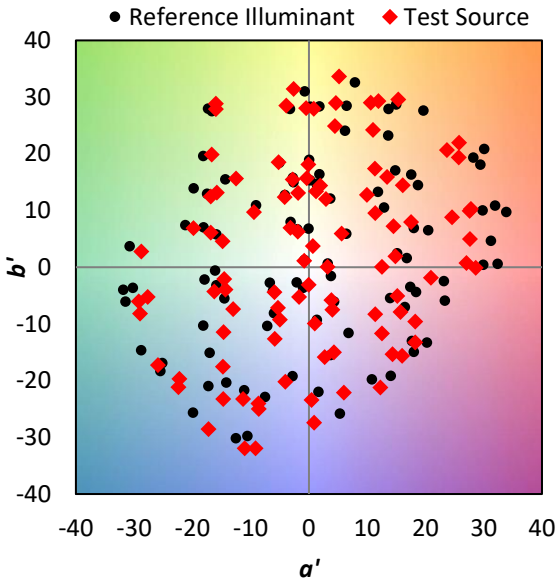
Summary

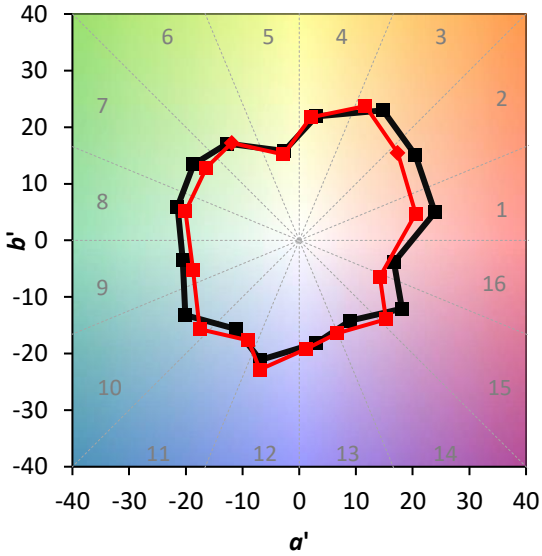
R_f = 81.8
R_g = 91.9
CIE R_a = 79.3
R_9 = -8.3

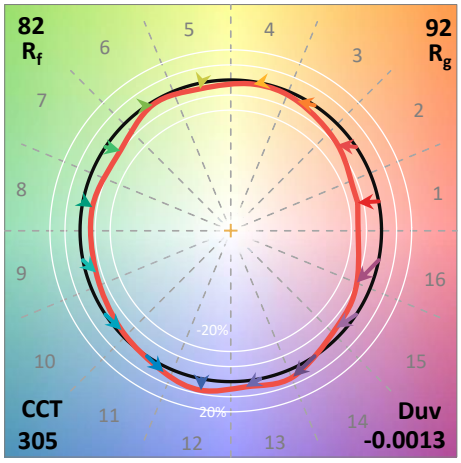
Spectral Power Distribution Comparison

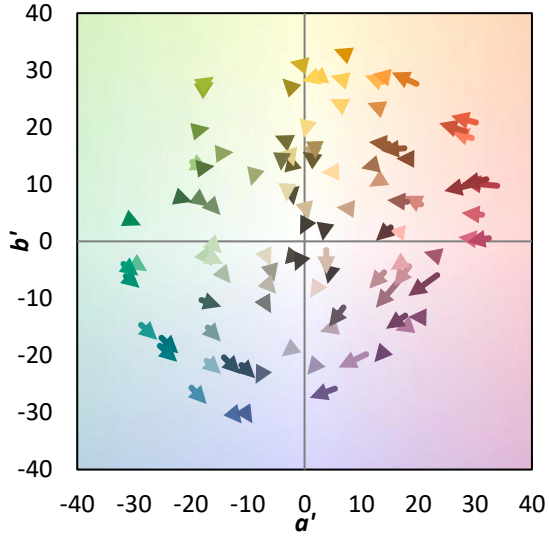


Color Vector Graphics







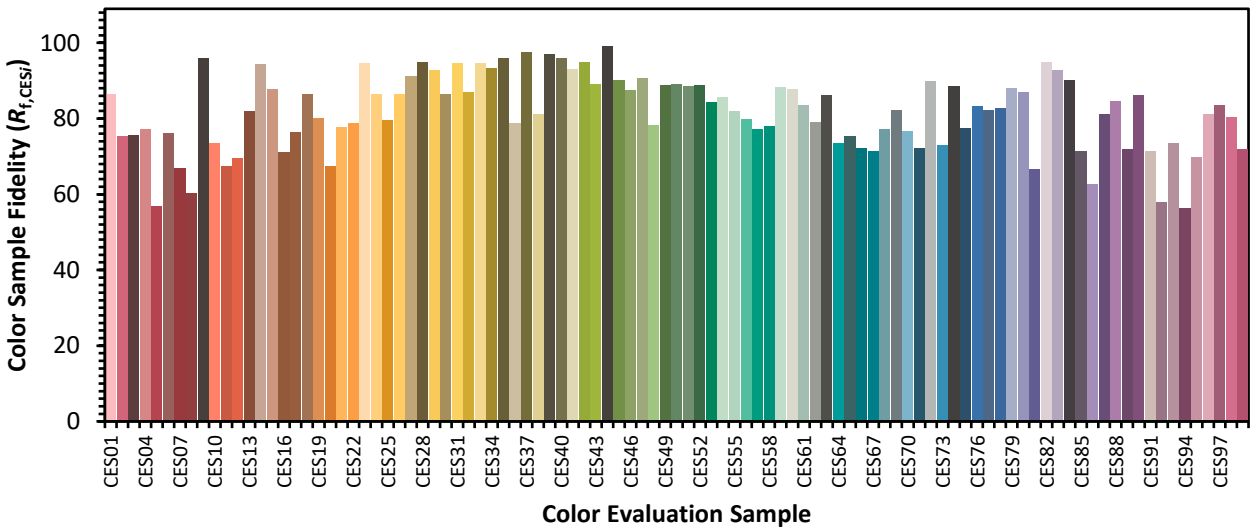


REPORT NUMBER: SP1-2407-168-1

TM-30-18

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

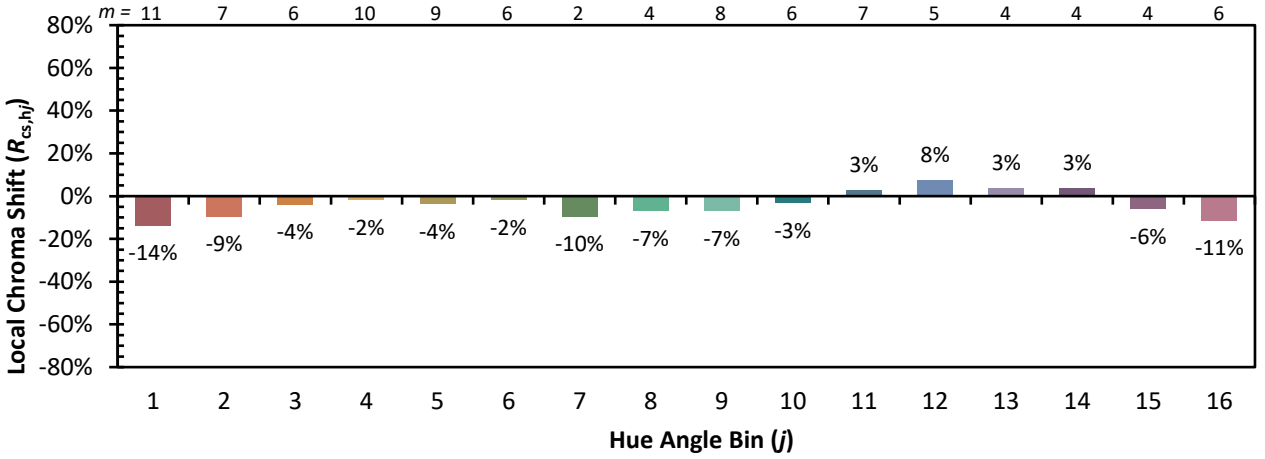
CES01 = 86	CES26 = 86	CES51 = 88	CES76 = 83
CES02 = 63	CES27 = 91	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 95	CES53 = 84	CES78 = 83
CES04 = 71	CES29 = 93	CES54 = 86	CES79 = 88
CES05 = 49	CES30 = 86	CES55 = 82	CES80 = 87
CES06 = 51	CES31 = 95	CES56 = 80	CES81 = 67
CES07 = 42	CES32 = 87	CES57 = 77	CES82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

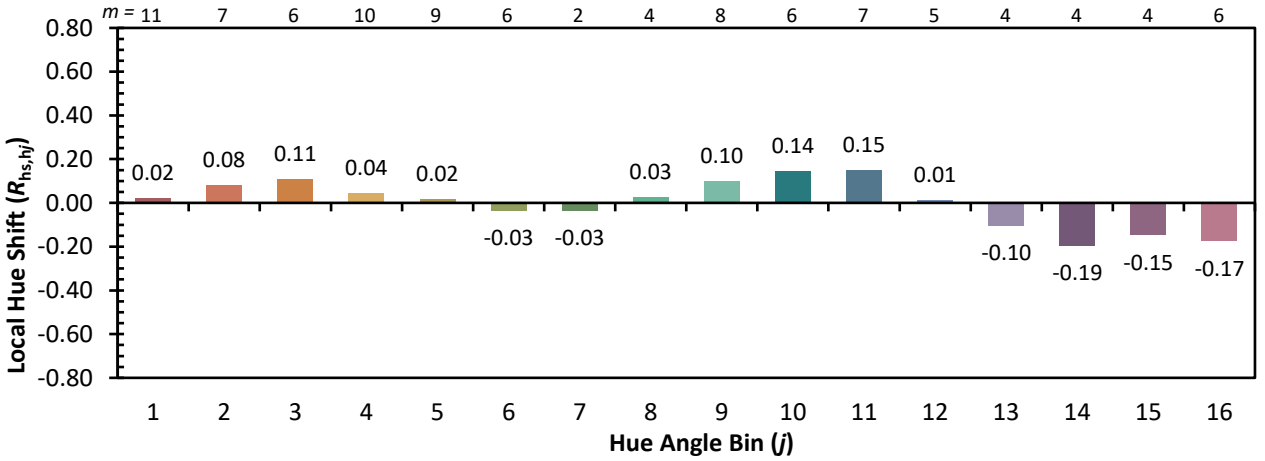


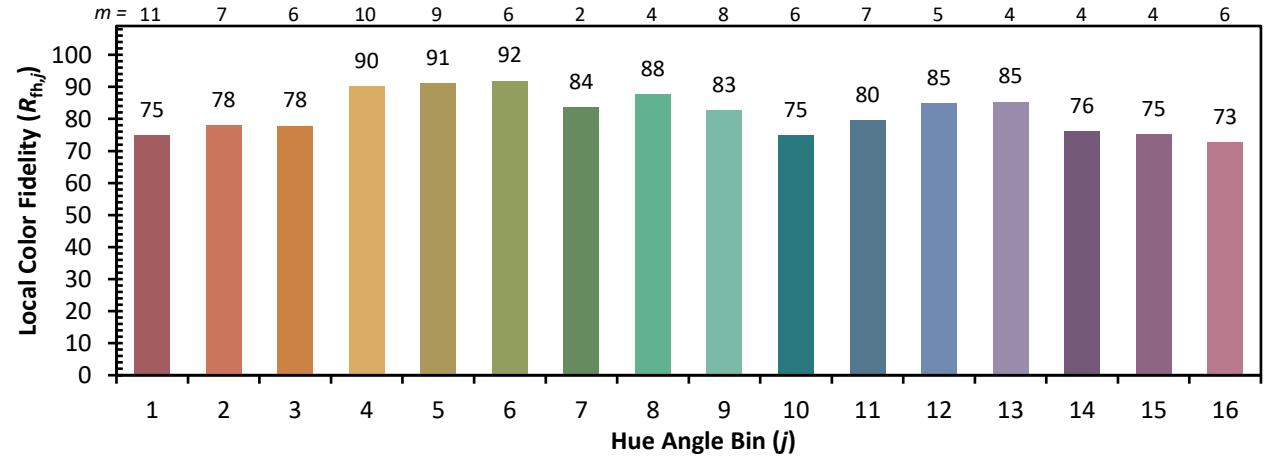
REPORT NUMBER: SP1-2407-168-1

TM-30-18

Color Rendition by Hue-Angle Bin







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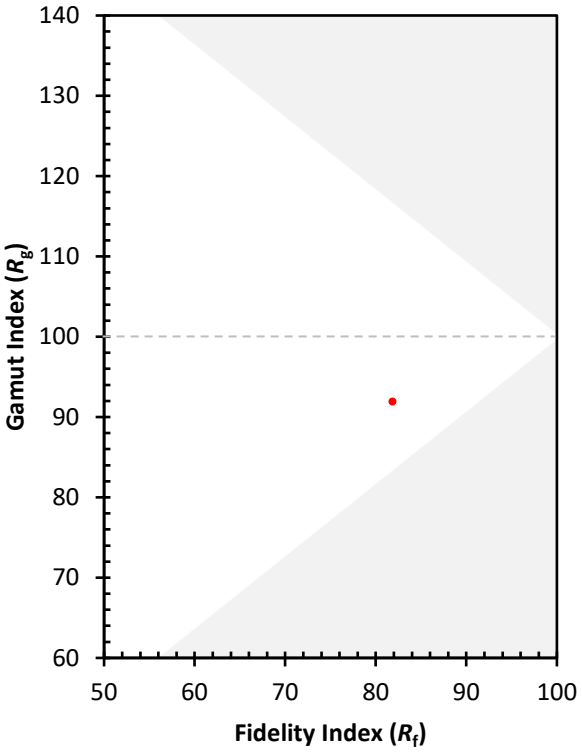
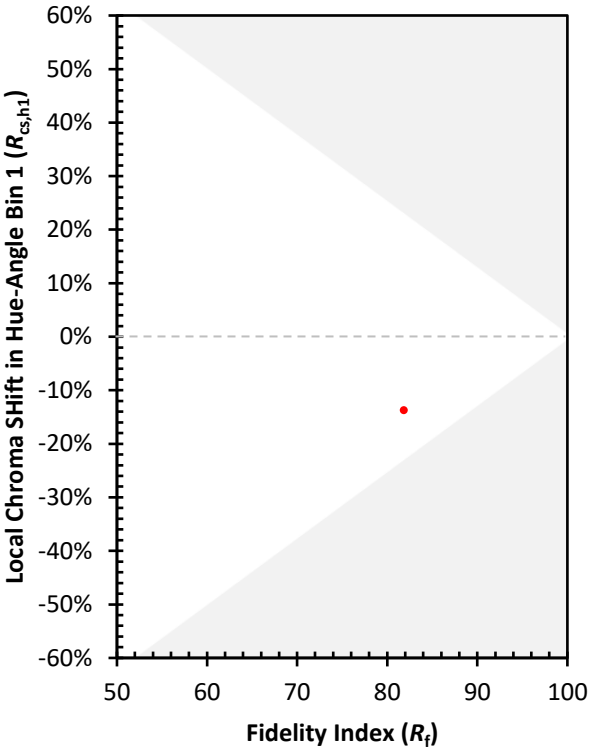
Measure Comparisons





(END OF REPORT)