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: P1449816

Luminaire Tested: **TWC100_T2_100W_4000K**

Issue Date: 5/19/2026

Report Generated By 670246072

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:	P1449816
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (20260310022)
Test Lab:	INNOVATION CENTER
Issue Date:	5/19/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	LUMARK
Catalog Number:	TWC100_T2_100W_4000K
Description:	Tapered Wall Cutoff Wall Mount Luminaire at, T2 distribution, 100W 4000K settings
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	16584 lumens
Efficiency:	N/A
Efficacy:	172.4 lumens/watt
Luminous Opening:	Rectangular (W 0.92' x L: 0.42' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U3 - G3

Input Watts (W):	96.2
Input Voltage (V):	NR
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:	25 FT

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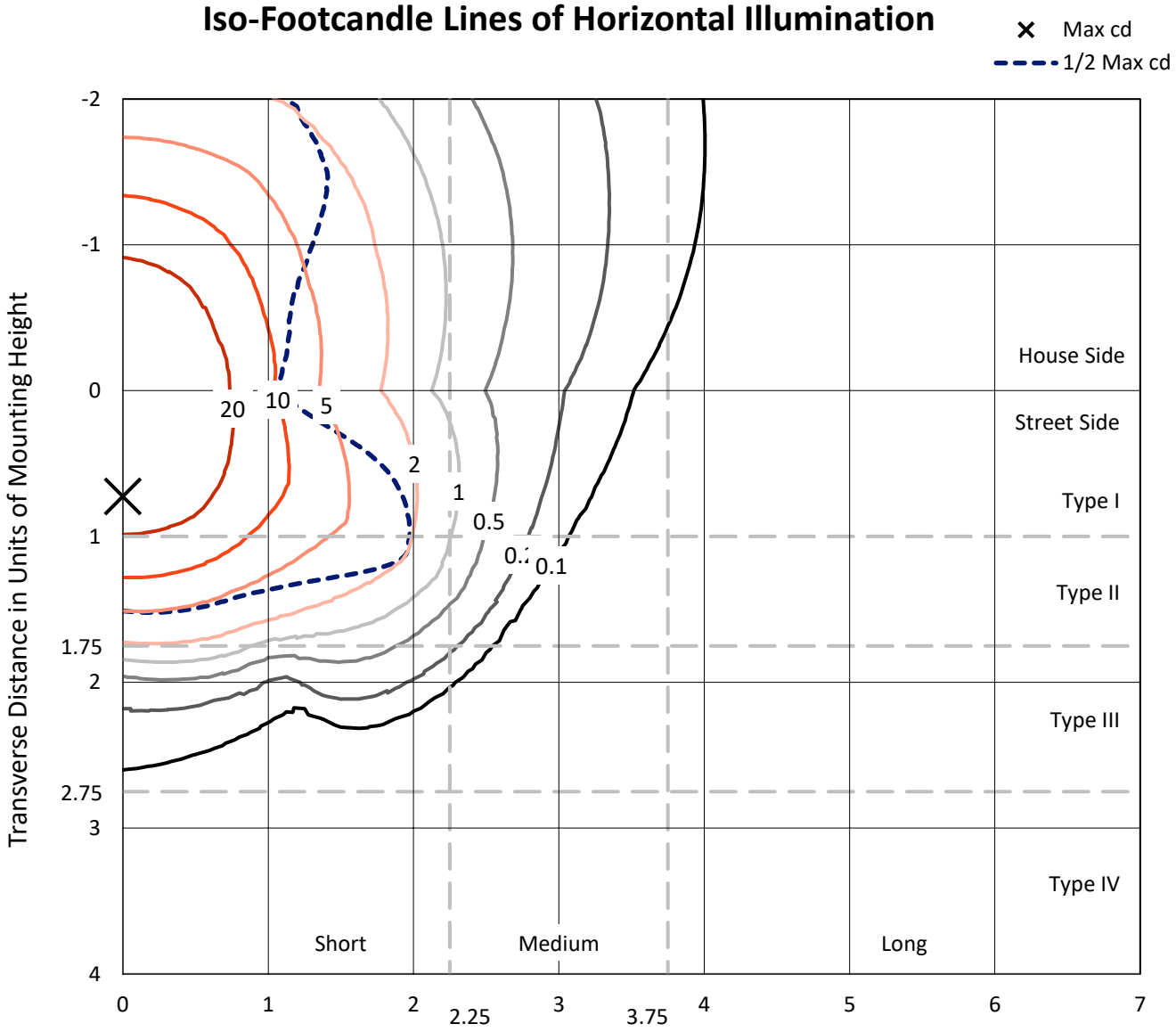
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 48.6 fc
Type II - Short - N/A

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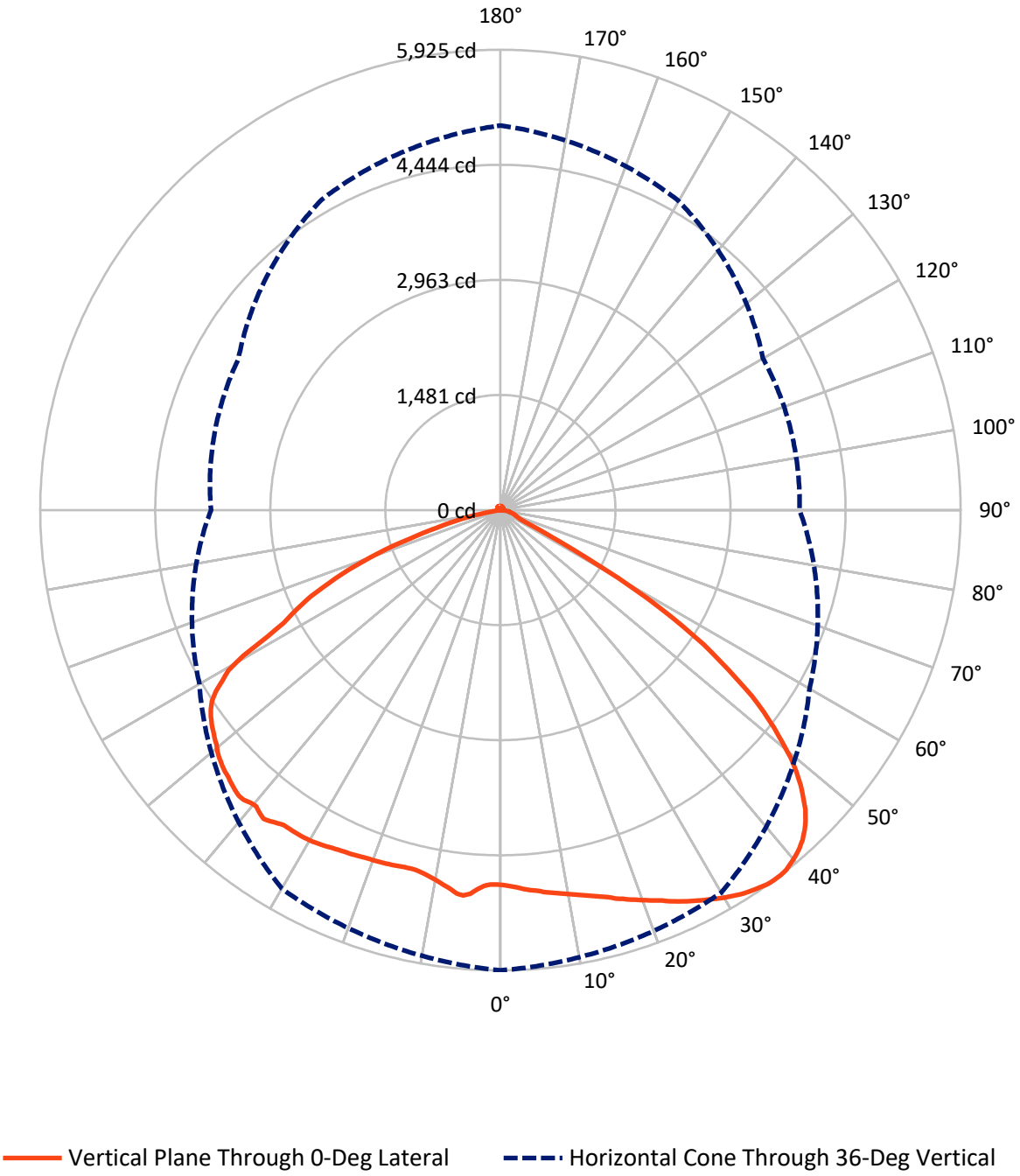
Luminous Intensity Polar Plot



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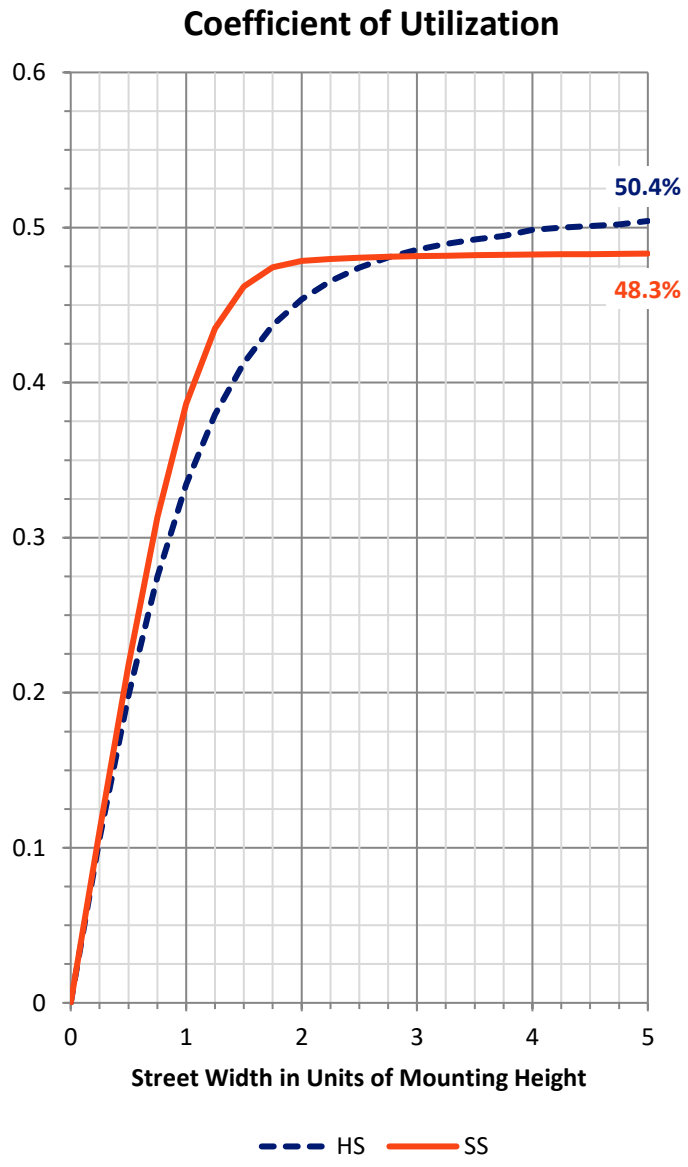
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8394.5	89.5	8484.0
	% Fixture	50.6	0.5	51.2
Street Side	Lumens	8010.5	89.5	8100.0
	% Fixture	48.3	0.5	48.8
Total	Lumens	16405.1	178.9	16584.0
	% Fixture	98.9	1.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.0	2.8
10°-20°	1368.3	8.3
20°-30°	2209.3	13.3
30°-40°	2928.2	17.7
40°-50°	3352.8	20.2
50°-60°	3179.0	19.2
60°-70°	1990.0	12.0
70°-80°	758.1	4.6
80°-90°	154.3	0.9
90°-100°	7.9	0.0
100°-110°	15.7	0.1
110°-120°	24.2	0.1
120°-130°	29.9	0.2
130°-140°	31.3	0.2
140°-150°	28.5	0.2
150°-160°	22.4	0.1
160°-170°	14.2	0.1
170°-180°	4.9	0.0
0°-90°	16405.1	98.9
0°-180°	16584.0	100.0



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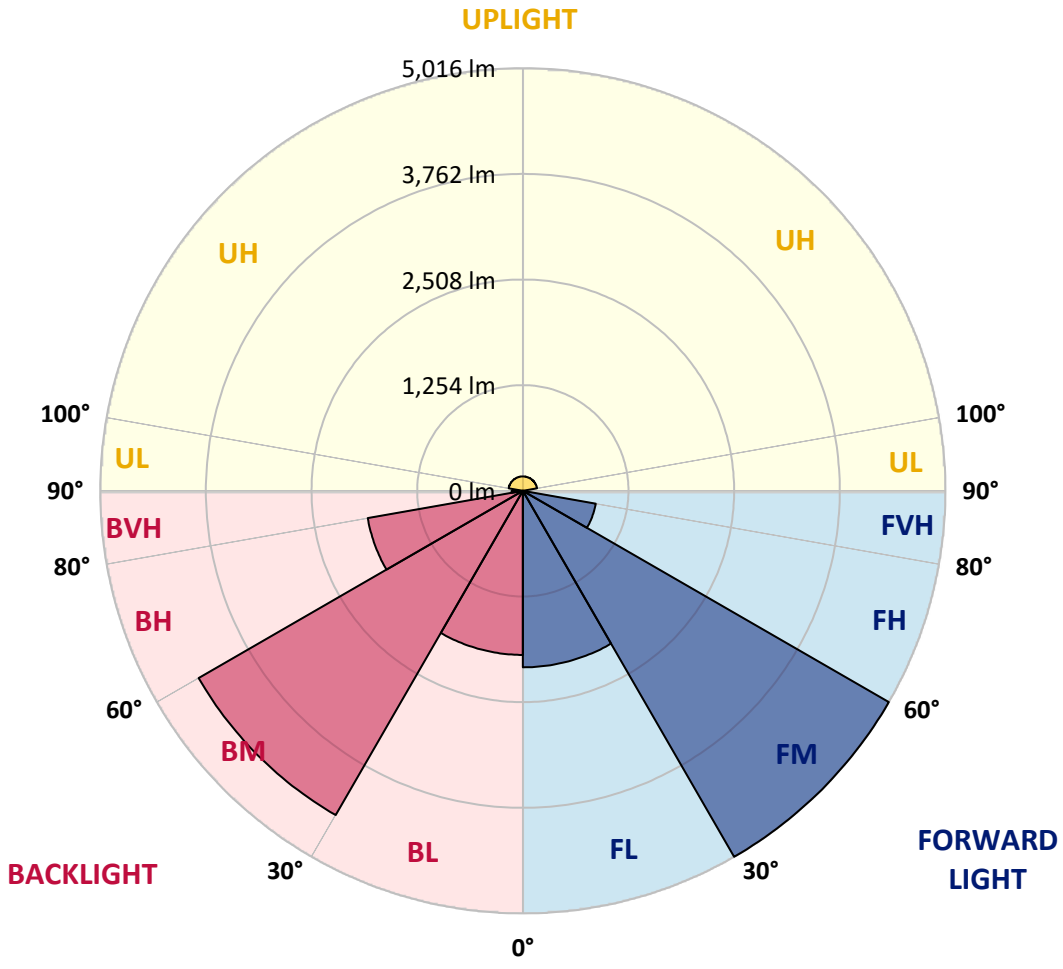
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2095.0	12.6			
FM	(30°-60°)	5016.2	30.2			
FH	(60°-80°)	878.8	5.3			G1/1800
FVH	(80°-90°)	20.6	0.1			G1/100
BL	(0°-30°)	1947.7	11.7	B3/2500		
BM	(30°-60°)	4443.8	26.8	B3/5000		
BH	(60°-80°)	1869.3	11.3	B3/2500		G3/2500
BVH	(80°-90°)	133.7	0.8			G2/225
UL	(90°-100°)	7.9	0.0		U1/10	
UH	(100°-180°)	171.1	1.0		U3/500	

BUG Rating: B3-U3-G3
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	4826.9	4826.9	4826.9	4826.9	4826.9	4826.9	4826.9	4826.9	4826.9	4826.9	4826.9
1°	4844.4	4842.3	4838.6	4825.3	4820.9	4813.6	4820.1	4816.1	4812.9	4822.5	4832.4
2°	4862.5	4858.9	4845.5	4830.4	4814.4	4800.7	4821.6	4809.1	4805.1	4817.3	4840.6
3°	4887.1	4878.1	4855.9	4828.2	4804.5	4798.5	4841.5	4819.2	4798.1	4815.4	4848.2
4°	4906.7	4896.0	4864.8	4823.1	4797.4	4807.7	4889.7	4844.5	4797.7	4808.1	4852.0
5°	4922.9	4909.9	4867.7	4816.8	4794.0	4833.9	4953.8	4903.0	4798.1	4797.4	4861.1
6°	4948.2	4922.2	4869.9	4798.5	4791.9	4892.7	4984.3	4952.4	4803.6	4785.3	4862.2
7°	4967.0	4936.8	4871.7	4789.4	4796.6	4942.5	4967.3	4971.9	4815.2	4772.5	4860.7
8°	4987.2	4950.8	4872.2	4778.4	4807.8	4962.2	4919.9	4954.9	4840.6	4758.9	4858.5
9°	5007.2	4971.0	4870.4	4768.4	4826.4	4937.7	4884.3	4899.3	4868.9	4743.7	4847.7
10°	5029.6	4985.1	4867.3	4753.6	4861.4	4891.5	4848.1	4861.2	4886.9	4718.7	4843.5
11°	5053.8	5000.2	4865.1	4735.7	4879.2	4852.2	4818.3	4823.9	4885.1	4698.4	4837.1
12°	5083.0	5018.3	4861.1	4714.3	4882.7	4815.9	4789.8	4792.7	4869.3	4678.8	4831.2
13°	5109.8	5032.3	4855.8	4693.2	4868.1	4783.5	4770.6	4757.6	4830.2	4656.8	4820.6
14°	5139.8	5051.3	4850.7	4672.9	4834.3	4749.9	4756.8	4726.3	4783.3	4638.1	4813.2
15°	5171.2	5071.9	4839.0	4643.3	4783.7	4719.0	4758.5	4708.4	4738.5	4613.1	4804.5
16°	5214.1	5094.4	4832.0	4619.9	4739.0	4698.3	4761.7	4698.3	4693.3	4586.2	4802.3
17°	5247.8	5126.1	4827.6	4593.8	4694.0	4687.7	4772.3	4690.8	4648.8	4559.2	4795.3
18°	5287.0	5149.9	4828.6	4566.4	4648.4	4679.6	4779.5	4685.5	4597.5	4524.3	4787.4
19°	5323.3	5176.1	4821.8	4542.7	4605.4	4674.4	4786.3	4681.2	4552.7	4496.0	4778.7
20°	5362.4	5205.9	4816.9	4513.8	4558.6	4660.5	4793.4	4672.3	4507.1	4468.7	4760.9
21°	5402.0	5233.9	4803.2	4487.8	4506.8	4653.8	4797.0	4668.5	4464.3	4442.9	4749.6
22°	5441.1	5264.3	4796.0	4459.1	4461.3	4650.2	4805.5	4664.5	4426.0	4417.5	4738.5
23°	5493.0	5294.5	4788.7	4423.8	4424.5	4650.5	4814.8	4661.6	4393.3	4394.9	4733.4
24°	5536.7	5324.1	4779.1	4397.7	4386.7	4648.4	4826.9	4662.7	4360.3	4373.4	4722.0
25°	5578.8	5356.0	4775.1	4374.8	4353.9	4644.4	4834.9	4661.3	4327.9	4357.6	4707.5
26°	5620.6	5387.4	4762.5	4358.0	4318.9	4641.7	4844.8	4658.8	4292.6	4342.6	4691.0
27°	5662.0	5429.2	4750.8	4340.7	4283.3	4634.5	4860.4	4653.2	4254.7	4322.2	4669.7
28°	5700.2	5460.7	4735.7	4323.7	4240.0	4629.2	4877.7	4648.0	4215.7	4282.3	4650.2
29°	5741.3	5492.6	4719.5	4300.5	4201.6	4624.0	4889.8	4642.4	4177.3	4245.8	4631.5
30°	5780.0	5520.9	4703.7	4266.1	4161.2	4617.8	4904.6	4641.8	4129.2	4198.3	4611.5
31°	5815.6	5545.9	4689.7	4224.5	4120.3	4612.9	4913.4	4634.5	4089.5	4132.4	4585.9
32°	5846.6	5576.1	4670.9	4175.6	4071.7	4606.9	4919.6	4633.3	4050.1	4054.4	4565.1
33°	5873.4	5605.3	4655.0	4109.6	4028.9	4603.8	4921.9	4630.6	4013.9	3972.6	4543.5
34°	5894.8	5634.9	4636.2	4015.8	3987.0	4599.9	4920.8	4627.9	3975.0	3897.6	4525.9
35°	5916.9	5664.8	4614.5	3933.6	3945.2	4600.5	4922.1	4623.0	3935.9	3821.5	4502.0
36°	5925.3	5685.8	4595.3	3850.1	3903.9	4591.6	4949.5	4609.7	3895.0	3726.2	4475.7
37°	5924.4	5702.6	4575.4	3764.8	3863.1	4578.4	4982.1	4597.3	3846.0	3643.4	4450.3
38°	5914.2	5714.1	4553.7	3679.0	3820.3	4562.7	5009.7	4595.3	3803.4	3559.1	4414.3
39°	5884.4	5720.5	4533.1	3592.8	3776.9	4553.3	4981.9	4605.0	3756.4	3473.0	4393.1
40°	5853.0	5717.8	4517.0	3507.2	3721.4	4567.9	4943.4	4625.1	3705.5	3383.2	4371.9
41°	5811.2	5707.0	4500.1	3423.3	3674.6	4587.9	4955.0	4608.5	3654.1	3304.5	4354.2
42°	5758.3	5687.3	4489.4	3328.7	3624.3	4573.3	4983.9	4549.7	3605.7	3229.0	4343.3
43°	5688.0	5649.1	4481.0	3248.4	3572.7	4514.3	4987.6	4537.6	3551.8	3149.7	4329.4
44°	5604.9	5605.5	4474.7	3171.6	3514.1	4500.9	4968.1	4549.8	3492.9	3072.6	4318.2

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	5505.2	5550.3	4473.8	3094.0	3456.0	4514.4	4938.8	4546.4	3432.1	2994.6	4311.6
46°	5375.2	5480.0	4474.6	3011.5	3388.9	4511.8	4910.1	4520.3	3383.4	2911.6	4308.7
47°	5241.0	5396.1	4475.4	2928.2	3333.4	4488.0	4889.0	4493.5	3355.2	2816.4	4305.3
48°	5087.7	5292.1	4479.8	2842.8	3303.6	4460.8	4860.0	4466.9	3321.4	2732.4	4302.3
49°	4916.3	5171.2	4483.6	2756.1	3272.7	4433.5	4828.2	4440.0	3217.3	2647.8	4304.6
50°	4706.1	5033.4	4488.0	2661.9	3186.3	4406.9	4790.4	4402.3	3143.3	2562.0	4299.8
51°	4502.6	4851.1	4494.6	2576.8	3093.2	4370.1	4739.7	4361.2	3101.7	2475.3	4301.4
52°	4279.5	4670.7	4497.2	2488.4	3052.0	4332.0	4702.4	4320.1	3046.0	2384.8	4304.4
53°	4028.0	4469.9	4500.4	2390.6	3000.4	4289.9	4663.9	4276.3	2987.8	2297.6	4307.1
54°	3727.6	4232.6	4499.2	2302.4	2940.0	4245.3	4623.4	4233.0	2924.6	2209.1	4312.4
55°	3437.2	3993.6	4497.1	2213.1	2873.2	4203.1	4579.8	4194.2	2859.9	2118.0	4310.8
56°	3138.4	3722.4	4490.8	2123.9	2806.7	4164.9	4524.0	4156.3	2794.6	2012.9	4304.9
57°	2778.2	3393.5	4473.5	2026.3	2734.8	4122.2	4453.0	4118.8	2713.3	1919.2	4292.9
58°	2409.5	3072.8	4448.3	1932.4	2649.8	4084.5	4345.2	4065.9	2635.8	1826.5	4266.7
59°	1995.3	2745.1	4400.7	1838.7	2568.7	4042.0	4196.0	4013.9	2559.8	1723.7	4232.9
60°	1502.6	2401.6	4340.2	1733.4	2490.8	3991.1	4063.6	3952.4	2487.7	1630.3	4182.0
61°	1060.9	1984.7	4253.1	1642.8	2406.5	3926.3	3799.5	3859.0	2414.4	1536.7	4110.8
62°	707.3	1567.0	4135.4	1551.8	2335.5	3839.8	3410.7	3723.1	2350.4	1442.2	3997.6
63°	466.0	1120.3	3948.3	1458.0	2263.3	3725.5	3148.0	3601.0	2285.1	1349.6	3847.6
64°	322.1	717.2	3718.5	1356.2	2192.7	3596.3	2997.2	3337.5	2221.7	1275.2	3639.2
65°	278.3	410.3	3424.5	1276.0	2121.5	3297.7	2846.6	3050.1	2156.1	1180.6	3355.8
66°	259.4	258.8	3060.4	1191.3	2055.0	3026.2	2683.9	2892.9	2093.0	1090.7	2954.9
67°	244.5	203.5	2587.9	1078.5	1987.6	2891.9	2482.5	2786.2	2024.7	1005.0	2513.9
68°	229.5	183.0	2094.1	981.1	1916.6	2777.7	2295.3	2681.4	1943.8	910.2	2030.1
69°	215.2	168.1	1566.2	889.9	1834.3	2674.6	2102.7	2543.6	1862.8	821.3	1447.8
70°	203.5	153.0	1053.2	805.9	1755.7	2552.6	1881.3	2412.7	1777.9	735.9	959.7
71°	195.5	141.0	662.1	715.7	1670.1	2426.3	1675.6	2284.7	1683.4	647.6	587.7
72°	184.7	132.6	371.4	636.7	1568.7	2292.7	1460.7	2152.2	1541.9	570.7	339.7
73°	174.0	124.7	214.9	562.7	1432.2	2162.3	1221.9	2000.4	1412.9	499.0	200.7
74°	159.4	114.5	164.8	495.3	1302.1	2025.5	1024.2	1851.4	1335.1	428.3	164.1
75°	148.6	102.7	141.3	426.5	1225.5	1883.8	849.4	1676.6	1253.7	371.3	142.0
76°	136.8	90.5	126.2	369.8	1148.1	1701.3	699.7	1475.3	1172.5	319.2	128.2
77°	128.4	81.8	117.3	321.9	1068.4	1508.1	563.5	1264.9	1097.8	273.1	119.3
78°	120.0	74.0	111.6	278.7	997.8	1312.0	455.1	1089.4	1028.0	227.9	116.0
79°	112.9	68.1	103.4	237.5	931.5	1129.4	341.2	936.0	954.5	190.7	108.6
80°	105.3	62.2	87.6	202.4	857.1	956.9	189.5	795.0	885.0	155.7	90.1
81°	96.0	57.3	69.3	163.5	787.3	813.7	76.2	647.7	816.0	122.6	71.4
82°	86.0	51.8	54.8	121.2	718.3	674.2	54.5	496.2	748.6	90.9	54.8
83°	61.0	42.8	42.6	90.9	645.9	480.0	44.1	283.7	662.7	67.7	41.9
84°	43.4	35.3	35.3	66.3	560.4	245.2	32.3	102.6	574.2	49.2	34.5
85°	34.2	27.6	29.2	47.2	478.7	73.7	23.5	33.5	479.1	34.7	28.2
86°	25.4	21.0	24.0	30.9	387.8	27.0	14.0	20.7	393.0	23.2	23.2
87°	15.1	15.0	18.1	19.5	297.4	15.0	8.0	11.9	275.4	15.4	17.6
88°	7.4	8.4	10.9	10.0	156.8	7.0	4.4	5.6	115.6	9.6	11.1
89°	3.6	4.9	4.9	3.8	23.6	2.5	2.2	2.6	7.4	6.5	8.2

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	3.0	4.5	4.0	2.7	2.2	0.0	2.1	2.6	6.6	6.0	8.8
91°	3.6	5.2	4.5	2.6	2.3	0.0	2.5	2.7	7.4	6.6	9.3
92°	3.8	5.6	4.7	3.0	2.7	0.0	2.6	3.2	8.1	7.0	9.9
93°	4.7	6.5	5.5	3.2	3.2	0.0	3.0	3.6	8.8	7.7	10.7
94°	5.1	6.9	5.6	3.6	3.7	0.0	3.6	4.3	9.3	8.5	11.3
95°	5.8	7.6	6.3	3.7	4.4	1.5	4.0	4.9	10.2	9.1	12.1
96°	6.5	8.2	6.7	4.1	4.7	1.5	4.4	5.5	11.1	9.5	12.8
97°	7.1	8.9	7.3	4.5	4.9	1.6	4.8	6.3	12.1	10.3	13.5
98°	8.0	9.9	7.7	5.1	5.8	2.1	5.8	7.3	12.8	11.0	14.4
99°	8.8	10.6	8.2	5.8	6.3	2.1	6.6	8.1	13.7	11.7	15.0
100°	9.6	11.7	8.5	6.2	7.0	2.7	7.1	9.2	14.7	12.6	15.8
101°	10.4	12.5	9.3	6.7	7.3	3.3	8.2	10.0	15.6	13.3	16.3
102°	11.5	13.3	10.0	7.3	8.1	3.6	9.1	11.0	16.6	14.4	17.2
103°	12.6	14.1	10.4	7.8	8.8	4.3	10.0	12.5	17.9	15.0	18.1
104°	13.7	15.0	11.0	8.5	9.7	4.8	11.3	13.6	18.8	15.9	18.8
105°	15.0	15.6	11.7	9.1	10.4	5.5	12.4	14.7	19.8	16.6	19.5
106°	15.9	16.6	12.4	9.9	11.3	6.5	13.5	16.1	21.1	17.7	20.2
107°	16.8	17.6	13.0	10.3	12.1	7.1	15.0	17.3	22.0	18.5	21.0
108°	17.9	18.4	13.7	11.1	12.9	8.0	16.3	18.9	23.2	19.4	22.0
109°	19.1	19.2	14.6	11.9	14.0	8.9	17.4	20.0	24.3	20.3	22.7
110°	19.8	20.2	15.0	12.8	14.7	10.0	19.1	21.6	25.7	21.3	23.3
111°	21.1	21.1	15.8	13.5	15.8	11.0	20.5	23.1	26.4	22.1	24.0
112°	22.1	22.1	16.5	14.1	16.3	12.2	22.0	24.6	27.5	23.1	24.7
113°	23.3	23.1	17.2	15.0	17.4	13.2	23.5	25.7	28.4	23.9	25.7
114°	24.4	24.0	18.0	15.9	18.0	14.4	25.0	27.6	29.2	24.9	26.1
115°	25.4	24.9	18.4	16.6	18.7	15.8	26.5	29.1	30.1	25.8	26.9
116°	26.4	25.5	19.2	17.3	19.2	17.0	28.2	30.6	31.0	26.8	27.7
117°	27.5	26.5	19.9	18.1	20.5	18.3	29.5	31.9	31.9	27.7	28.6
118°	28.6	27.5	20.6	19.1	20.9	19.5	31.4	33.5	33.0	28.6	29.2
119°	29.2	28.3	21.3	19.8	21.8	20.7	33.0	34.6	33.6	29.7	30.1
120°	30.5	29.0	22.2	20.5	22.8	22.1	34.5	35.8	34.3	30.5	30.5
121°	31.3	29.7	22.9	21.6	23.3	23.3	36.1	37.1	35.2	31.2	31.2
122°	32.3	30.5	23.8	22.1	24.3	24.3	37.5	38.5	35.6	32.1	31.7
123°	33.0	31.3	24.3	23.2	25.1	25.7	38.9	39.7	36.5	33.0	32.4
124°	33.8	31.9	25.0	23.8	25.9	26.6	40.1	40.5	37.3	33.8	32.7
125°	34.6	32.7	25.7	24.6	26.6	27.6	41.5	41.7	38.2	34.5	33.8
126°	35.4	33.5	26.1	25.7	27.7	28.8	42.4	42.7	39.1	35.0	34.1
127°	36.2	34.2	26.9	26.4	28.7	29.8	43.4	43.4	39.5	35.8	34.9
128°	36.7	34.9	27.6	27.2	29.5	30.8	44.6	44.5	40.5	36.2	35.6
129°	37.6	35.4	27.9	27.9	30.5	31.4	45.5	45.3	41.5	36.8	36.0
130°	38.7	36.2	29.0	28.6	31.4	32.5	46.5	45.9	42.0	37.6	36.5
131°	39.7	36.7	29.2	29.2	32.7	33.4	47.4	46.5	42.6	38.5	36.9
132°	39.7	37.3	29.9	29.9	33.6	34.5	48.2	47.4	43.5	38.7	37.8
133°	40.4	37.9	30.9	30.5	34.5	35.3	49.0	48.1	44.2	39.3	37.9
134°	40.8	38.3	31.4	31.3	35.7	36.0	49.7	48.6	45.2	39.8	38.7

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

Scaled Data Report

REPORT NUMBER: P1449816
CATALOG NUMBER: TWC100_T2_100W_4000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
135°	41.3	39.1	32.0	31.7	36.7	37.1	50.5	48.9	45.6	40.2	39.3
136°	42.3	39.7	32.7	32.5	37.6	37.9	50.9	49.3	46.3	40.8	39.7
137°	42.6	39.5	33.2	33.1	38.9	39.0	51.4	50.0	46.7	41.3	39.7
138°	43.4	40.1	33.9	33.9	39.5	39.7	52.0	50.5	47.1	41.9	40.5
139°	43.7	40.6	34.3	34.5	40.4	40.5	51.9	50.8	47.5	42.3	40.9
140°	44.2	41.1	34.9	35.0	41.2	41.6	52.7	51.4	48.1	42.7	41.5
141°	44.5	41.6	35.4	35.6	41.9	42.6	53.0	51.6	48.3	43.0	41.9
142°	45.3	41.9	35.8	36.2	42.7	43.8	53.5	51.8	48.9	43.8	42.6
143°	45.5	42.2	36.9	36.9	43.4	44.5	53.5	52.3	49.3	44.4	42.7
144°	45.6	42.6	36.9	37.5	44.1	45.7	54.1	52.6	49.6	44.9	43.4
145°	45.7	43.1	37.6	37.6	44.8	46.4	54.0	52.7	49.7	45.2	43.7
146°	46.1	43.0	38.2	38.3	45.0	47.2	54.2	53.0	50.1	45.7	44.1
147°	46.3	43.5	38.7	39.0	45.6	48.1	54.4	53.0	50.3	46.1	44.5
148°	46.4	43.8	39.3	39.4	46.0	48.7	54.4	53.4	50.7	46.1	45.0
149°	46.8	44.1	39.8	39.8	46.3	49.3	54.5	53.5	50.7	47.0	45.6
150°	46.7	44.2	40.2	40.6	46.7	49.8	54.2	53.5	51.1	47.2	45.6
151°	47.2	44.8	40.6	40.8	47.1	50.7	54.4	53.4	50.9	47.6	46.1
152°	47.4	44.6	41.1	41.6	47.4	51.1	54.4	53.5	51.2	48.1	46.4
153°	47.5	45.0	41.7	41.7	47.6	51.5	54.2	53.5	51.5	48.6	46.8
154°	47.5	45.0	42.0	42.7	47.9	51.5	54.0	53.5	51.5	48.5	47.1
155°	47.6	45.6	42.7	42.7	48.3	51.9	54.0	53.5	51.5	48.6	47.5
156°	47.8	45.6	43.0	43.7	48.5	52.2	53.8	53.3	51.4	49.0	47.8
157°	47.8	45.9	43.4	43.9	48.7	51.9	53.4	53.5	51.5	49.3	47.9
158°	48.3	45.7	44.1	44.4	49.2	52.5	53.3	52.9	51.5	49.8	48.2
159°	48.1	46.3	44.4	44.9	49.2	52.5	53.0	53.1	51.8	50.0	48.6
160°	48.2	46.4	44.9	45.9	49.4	52.6	52.7	52.9	51.8	50.0	48.9
161°	48.3	46.8	45.2	45.7	49.6	52.6	52.7	53.0	51.6	50.4	49.0
162°	48.3	47.0	45.6	46.1	49.8	52.9	52.7	52.9	51.6	50.4	49.2
163°	48.5	47.1	46.0	46.7	50.3	52.9	52.6	52.6	51.6	50.8	49.4
164°	48.7	47.2	46.5	47.4	50.4	52.9	52.3	52.6	51.8	50.8	49.4
165°	48.9	47.6	46.5	47.5	50.5	52.9	51.9	52.5	51.8	50.9	49.7
166°	49.0	47.8	47.0	47.8	50.7	52.9	51.8	52.2	51.9	50.9	49.8
167°	49.0	48.1	47.4	48.2	50.9	52.9	52.2	52.5	51.9	51.5	50.3
168°	49.2	48.1	47.8	48.6	50.9	52.9	52.0	52.5	51.8	51.5	50.4
169°	49.3	48.6	48.1	48.9	51.2	52.9	51.6	52.2	51.9	51.8	50.5
170°	49.4	48.7	48.6	49.6	51.5	52.7	51.6	51.8	52.0	51.6	50.7
171°	49.7	48.9	48.6	49.8	51.8	53.0	52.0	52.2	51.5	52.0	50.8
172°	50.0	49.0	49.4	50.1	51.6	52.7	51.9	51.9	51.9	52.0	51.4
173°	50.3	49.3	49.3	50.5	51.6	52.7	52.0	51.6	51.9	52.3	51.2
174°	50.5	49.6	50.0	50.8	51.6	52.6	52.0	51.9	51.6	52.5	51.5
175°	50.8	50.0	50.3	51.2	51.8	52.6	52.0	51.8	51.9	52.3	51.6
176°	51.4	50.3	50.5	51.1	51.9	52.6	52.2	52.0	51.8	52.6	51.6
177°	51.5	50.5	50.5	51.8	51.8	52.7	52.2	51.4	51.4	52.5	51.9
178°	51.5	50.8	50.8	51.6	51.9	52.6	51.8	51.6	51.5	52.5	51.8
179°	51.6	51.1	51.5	52.0	52.0	52.5	52.0	51.5	51.6	52.2	52.2

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

Scaled Data Report

REPORT NUMBER: P1449816
CATALOG NUMBER: TWC100_T2_100W_4000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
180°	*51.8*	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8

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Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1449816
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CANDELA DISTRIBUTION (continued):

	330°	360°
0°	4826.9	4826.9
1°	4844.1	4844.4
2°	4867.6	4862.5
3°	4882.0	4887.1
4°	4896.1	4906.7
5°	4905.2	4922.9
6°	4917.7	4948.2
7°	4930.7	4967.0
8°	4943.1	4987.2
9°	4960.4	5007.2
10°	4974.9	5029.6
11°	4990.5	5053.8
12°	5008.4	5083.0
13°	5023.0	5109.8
14°	5042.4	5139.8
15°	5061.6	5171.2
16°	5088.8	5214.1
17°	5112.2	5247.8
18°	5136.7	5287.0
19°	5160.9	5323.3
20°	5189.4	5362.4
21°	5216.5	5402.0
22°	5244.8	5441.1
23°	5274.7	5493.0
24°	5302.0	5536.7
25°	5333.7	5578.8
26°	5362.7	5620.6
27°	5396.9	5662.0
28°	5427.0	5700.2
29°	5456.6	5741.3
30°	5482.7	5780.0
31°	5507.4	5815.6
32°	5535.3	5846.6
33°	5562.1	5873.4
34°	5585.2	5894.8
35°	5610.8	5916.9
36°	*5627.3*	*5925.3*
37°	5638.4	5924.4
38°	5645.6	5914.2
39°	5643.9	5884.4
40°	5634.7	5853.0
41°	5621.7	5811.2
42°	5596.4	5758.3
43°	5553.8	5688.0
44°	5506.9	5604.9

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1449816
CATALOG NUMBER: TWC100_T2_100W_4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	5447.7	5505.2
46°	5372.6	5375.2
47°	5286.2	5241.0
48°	5179.9	5087.7
49°	5056.4	4916.3
50°	4893.1	4706.1
51°	4726.4	4502.6
52°	4539.2	4279.5
53°	4332.9	4028.0
54°	4087.5	3727.6
55°	3836.1	3437.2
56°	3551.4	3138.4
57°	3246.1	2778.2
58°	2892.6	2409.5
59°	2559.2	1995.3
60°	2197.9	1502.6
61°	1803.3	1060.9
62°	1335.9	707.3
63°	906.7	466.0
64°	557.6	322.1
65°	332.6	278.3
66°	219.3	259.4
67°	189.1	244.5
68°	171.9	229.5
69°	155.0	215.2
70°	140.9	203.5
71°	131.4	195.5
72°	124.0	184.7
73°	114.4	174.0
74°	103.8	159.4
75°	92.6	148.6
76°	83.1	136.8
77°	75.0	128.4
78°	68.0	120.0
79°	63.4	112.9
80°	58.9	105.3
81°	54.2	96.0
82°	48.2	86.0
83°	40.2	61.0
84°	33.8	43.4
85°	25.8	34.2
86°	21.1	25.4
87°	16.2	15.1
88°	11.3	7.4
89°	10.4	3.6

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

REPORT NUMBER: P1449816
CATALOG NUMBER: TWC100_T2_100W_4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
90°	11.3	3.0
91°	12.1	3.6
92°	13.2	3.8
93°	14.0	4.7
94°	15.1	5.1
95°	16.1	5.8
96°	17.0	6.5
97°	18.3	7.1
98°	19.2	8.0
99°	20.3	8.8
100°	21.6	9.6
101°	22.4	10.4
102°	23.3	11.5
103°	24.2	12.6
104°	25.5	13.7
105°	26.4	15.0
106°	27.3	15.9
107°	28.4	16.8
108°	29.4	17.9
109°	30.2	19.1
110°	31.0	19.8
111°	32.1	21.1
112°	33.0	22.1
113°	34.1	23.3
114°	34.7	24.4
115°	35.4	25.4
116°	36.2	26.4
117°	37.1	27.5
118°	37.6	28.6
119°	38.2	29.2
120°	38.9	30.5
121°	39.5	31.3
122°	39.5	32.3
123°	40.1	33.0
124°	40.8	33.8
125°	41.2	34.6
126°	41.5	35.4
127°	42.0	36.2
128°	42.4	36.7
129°	42.4	37.6
130°	43.1	38.7
131°	43.2	39.7
132°	43.4	39.7
133°	43.7	40.4
134°	44.2	40.8

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Scaled Data Report

REPORT NUMBER: P1449816
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CANDELA DISTRIBUTION (continued):

	330°	360°
135°	44.4	41.3
136°	44.6	42.3
137°	44.9	42.6
138°	45.2	43.4
139°	45.6	43.7
140°	45.3	44.2
141°	45.5	44.5
142°	45.7	45.3
143°	46.1	45.5
144°	46.1	45.6
145°	46.3	45.7
146°	46.4	46.1
147°	47.0	46.3
148°	46.7	46.4
149°	46.8	46.8
150°	47.0	46.7
151°	47.4	47.2
152°	47.5	47.4
153°	47.8	47.5
154°	47.6	47.5
155°	47.6	47.6
156°	47.9	47.8
157°	48.2	47.8
158°	48.2	48.3
159°	48.3	48.1
160°	48.3	48.2
161°	48.5	48.3
162°	48.6	48.3
163°	48.6	48.5
164°	48.9	48.7
165°	49.2	48.9
166°	49.3	49.0
167°	49.6	49.0
168°	49.7	49.2
169°	49.8	49.3
170°	50.0	49.4
171°	50.4	49.7
172°	50.3	50.0
173°	50.8	50.3
174°	51.1	50.5
175°	51.2	50.8
176°	51.4	51.4
177°	51.4	51.5
178°	51.9	51.5
179°	52.0	51.6

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

REPORT NUMBER: P1449816
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CANDELA DISTRIBUTION (continued):

	330°	360°
180°	51.8	51.8

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: SP1-2601-659-2

Test Date: 02/12/2026

Luminaire Tested: MWP2460W34VDDKYYAD-T4-24W-4000K

Data in this report applies to families of products including ;MWP2460W34VDDKYYAD

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.05

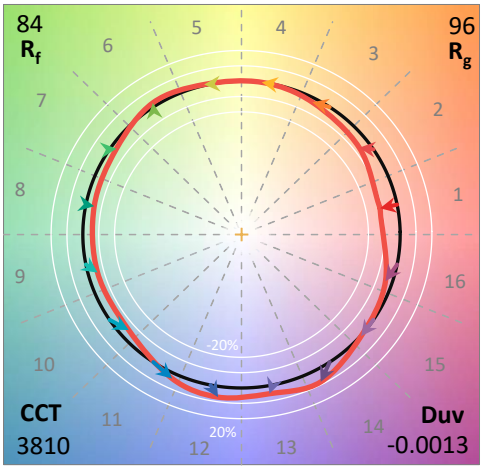
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2601-659-2
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	02/16/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Lumark
Catalog Number:	**MWP2460W34VDDKYYAD-T4-24W-4000K**
Description:	Mester Wedge, at T4 beam setting, 24W output, 4000K

Spectral Parameters

CCT (K):	3810
CIE u':	0.2295
CIE v':	0.5035
Duv:	-0.0013
CIE x:	0.3881
CIE y:	0.3785
CIE z:	0.2334
Peak Wavelength (nm):	453
Dominant Wavelength (nm):	580
Purity:	30.07368
Rf:	84.4
Rg:	96.5

CRI (Ra):	84.5
R1:	83.7
R2:	90.7
R3:	95.1
R4:	83.6
R5:	83.4
R6:	86.7
R7:	86.3
R8:	66.5
R9:	15.9
R10:	77.2
R11:	83.0
R12:	62.4
R13:	85.6
R14:	97.4
R15:	77.9



Test Conditions

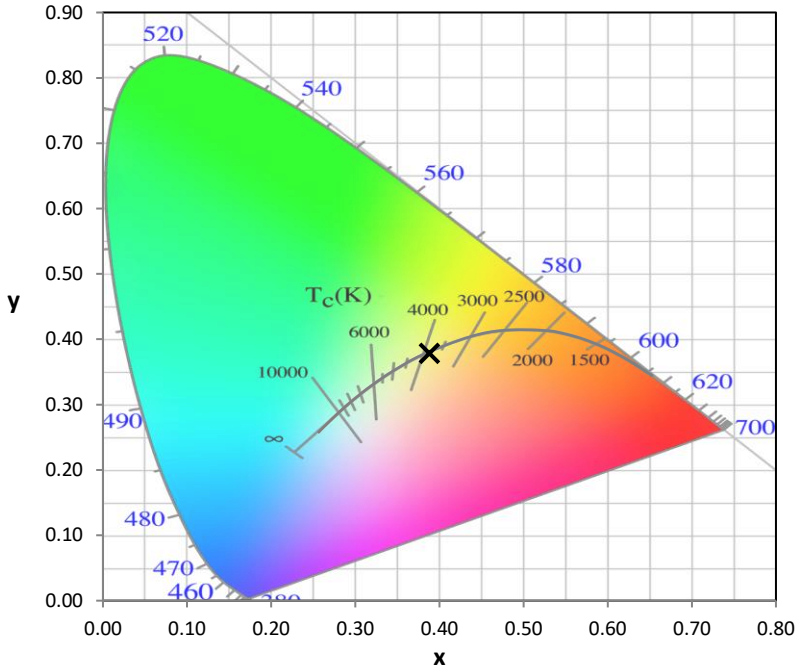
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2601-659-2

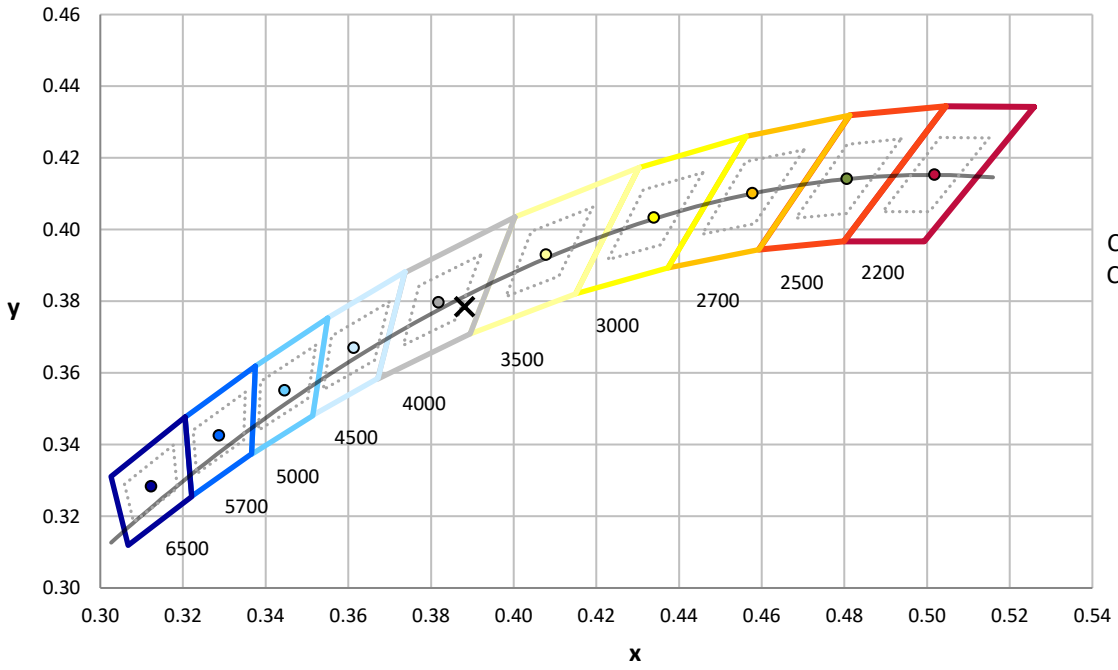
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	10/21/2025	10/21/2026
Sphere Thermometer	ONSET IN0085	10/21/2025	10/21/2026
Room Thermometer	ONSET IN0046	10/21/2025	10/21/2026

REPORT NUMBER: SP1-2601-659-2

CIE 1931 Chromaticity Diagram



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

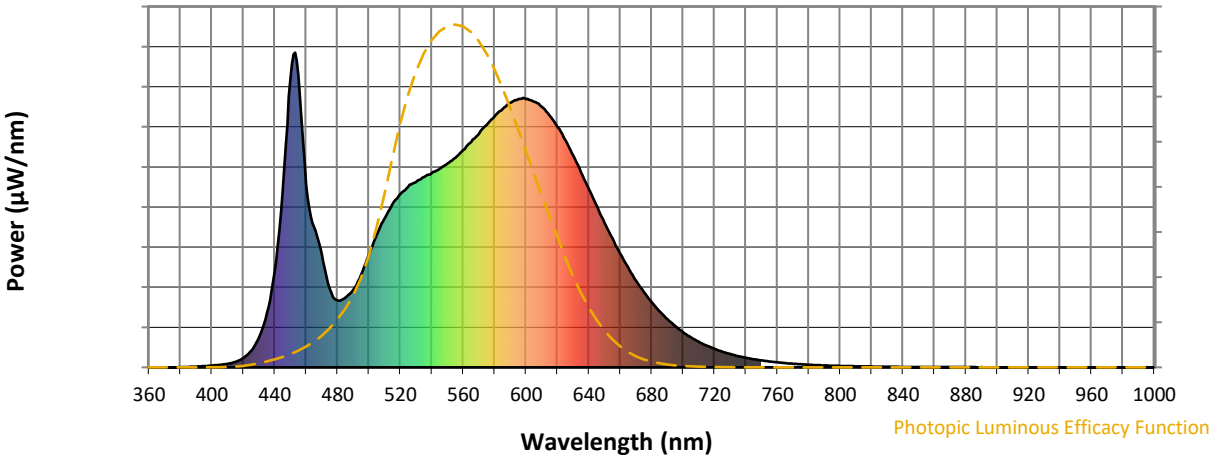


CCT = 3810K
CIE x = 0.3881
CIE y = 0.3785
Duv = -0.0013

Point lies inside the ANSI 4000K 7-step quadrangle

REPORT NUMBER: SP1-2601-659-2

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	247	NR	620	764	NR	750	22	NR	880	1	NR
365	0	NR	495	294	NR	625	723	NR	755	19	NR	885	1	NR
370	0	NR	500	359	NR	630	674	NR	760	16	NR	890	1	NR
375	0	NR	505	421	NR	635	620	NR	765	14	NR	895	0	NR
380	1	NR	510	474	NR	640	566	NR	770	12	NR	900	0	NR
385	1	NR	515	518	NR	645	512	NR	775	10	NR	905	0	NR
390	3	NR	520	552	NR	650	459	NR	780	8	NR	910	0	NR
395	4	NR	525	574	NR	655	410	NR	785	7	NR	915	0	NR
400	6	NR	530	589	NR	660	361	NR	790	6	NR	920	0	NR
405	8	NR	535	605	NR	665	317	NR	795	5	NR	925	0	NR
410	11	NR	540	617	NR	670	276	NR	800	5	NR	930	0	NR
415	18	NR	545	632	NR	675	239	NR	805	4	NR	935	0	NR
420	30	NR	550	648	NR	680	207	NR	810	3	NR	940	0	NR
425	53	NR	555	666	NR	685	178	NR	815	3	NR	945	0	NR
430	95	NR	560	690	NR	690	153	NR	820	3	NR	950	0	NR
435	173	NR	565	716	NR	695	131	NR	825	2	NR	955	0	NR
440	304	NR	570	742	NR	700	112	NR	830	2	NR	960	0	NR
445	559	NR	575	771	NR	705	95	NR	835	2	NR	965	0	NR
450	915	NR	580	798	NR	710	81	NR	840	1	NR	970	0	NR
455	929	NR	585	820	NR	715	69	NR	845	1	NR	975	0	NR
460	582	NR	590	841	NR	720	59	NR	850	1	NR	980	0	NR
465	446	NR	595	852	NR	725	50	NR	855	1	NR	985	0	NR
470	356	NR	600	852	NR	730	42	NR	860	1	NR	990	0	NR
475	250	NR	605	845	NR	735	36	NR	865	1	NR	995	0	NR
480	212	NR	610	827	NR	740	30	NR	870	1	NR	1000	0	NR
485	221	NR	615	801	NR	745	26	NR	875	1	NR			

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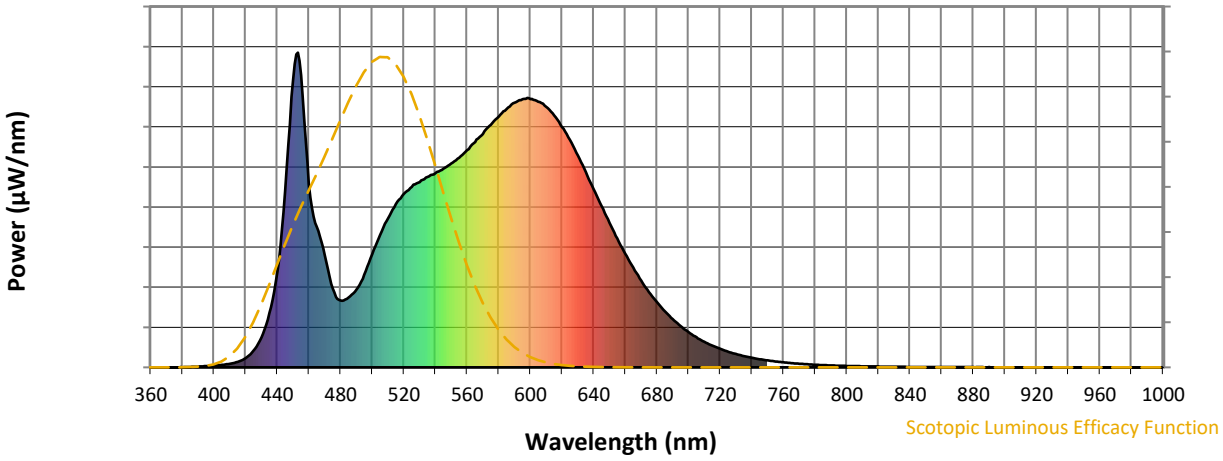
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.64**

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	247	NR	620	764	NR	750	22	NR	880	1	NR
365	0	NR	495	294	NR	625	723	NR	755	19	NR	885	1	NR
370	0	NR	500	359	NR	630	674	NR	760	16	NR	890	1	NR
375	0	NR	505	421	NR	635	620	NR	765	14	NR	895	0	NR
380	1	NR	510	474	NR	640	566	NR	770	12	NR	900	0	NR
385	1	NR	515	518	NR	645	512	NR	775	10	NR	905	0	NR
390	3	NR	520	552	NR	650	459	NR	780	8	NR	910	0	NR
395	4	NR	525	574	NR	655	410	NR	785	7	NR	915	0	NR
400	6	NR	530	589	NR	660	361	NR	790	6	NR	920	0	NR
405	8	NR	535	605	NR	665	317	NR	795	5	NR	925	0	NR
410	11	NR	540	617	NR	670	276	NR	800	5	NR	930	0	NR
415	18	NR	545	632	NR	675	239	NR	805	4	NR	935	0	NR
420	30	NR	550	648	NR	680	207	NR	810	3	NR	940	0	NR
425	53	NR	555	666	NR	685	178	NR	815	3	NR	945	0	NR
430	95	NR	560	690	NR	690	153	NR	820	3	NR	950	0	NR
435	173	NR	565	716	NR	695	131	NR	825	2	NR	955	0	NR
440	304	NR	570	742	NR	700	112	NR	830	2	NR	960	0	NR
445	559	NR	575	771	NR	705	95	NR	835	2	NR	965	0	NR
450	915	NR	580	798	NR	710	81	NR	840	1	NR	970	0	NR
455	929	NR	585	820	NR	715	69	NR	845	1	NR	975	0	NR
460	582	NR	590	841	NR	720	59	NR	850	1	NR	980	0	NR
465	446	NR	595	852	NR	725	50	NR	855	1	NR	985	0	NR
470	356	NR	600	852	NR	730	42	NR	860	1	NR	990	0	NR
475	250	NR	605	845	NR	735	36	NR	865	1	NR	995	0	NR
480	212	NR	610	827	NR	740	30	NR	870	1	NR	1000	0	NR
485	221	NR	615	801	NR	745	26	NR	875	1	NR			

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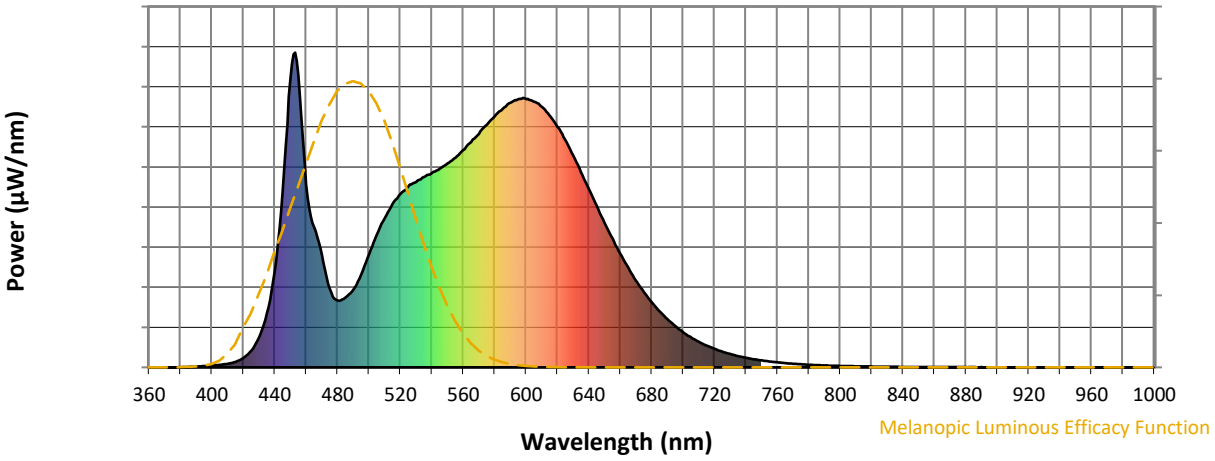
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.35**

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	247	NR	620	764	NR	750	22	NR	880	1	NR
365	0	NR	495	294	NR	625	723	NR	755	19	NR	885	1	NR
370	0	NR	500	359	NR	630	674	NR	760	16	NR	890	1	NR
375	0	NR	505	421	NR	635	620	NR	765	14	NR	895	0	NR
380	1	NR	510	474	NR	640	566	NR	770	12	NR	900	0	NR
385	1	NR	515	518	NR	645	512	NR	775	10	NR	905	0	NR
390	3	NR	520	552	NR	650	459	NR	780	8	NR	910	0	NR
395	4	NR	525	574	NR	655	410	NR	785	7	NR	915	0	NR
400	6	NR	530	589	NR	660	361	NR	790	6	NR	920	0	NR
405	8	NR	535	605	NR	665	317	NR	795	5	NR	925	0	NR
410	11	NR	540	617	NR	670	276	NR	800	5	NR	930	0	NR
415	18	NR	545	632	NR	675	239	NR	805	4	NR	935	0	NR
420	30	NR	550	648	NR	680	207	NR	810	3	NR	940	0	NR
425	53	NR	555	666	NR	685	178	NR	815	3	NR	945	0	NR
430	95	NR	560	690	NR	690	153	NR	820	3	NR	950	0	NR
435	173	NR	565	716	NR	695	131	NR	825	2	NR	955	0	NR
440	304	NR	570	742	NR	700	112	NR	830	2	NR	960	0	NR
445	559	NR	575	771	NR	705	95	NR	835	2	NR	965	0	NR
450	915	NR	580	798	NR	710	81	NR	840	1	NR	970	0	NR
455	929	NR	585	820	NR	715	69	NR	845	1	NR	975	0	NR
460	582	NR	590	841	NR	720	59	NR	850	1	NR	980	0	NR
465	446	NR	595	852	NR	725	50	NR	855	1	NR	985	0	NR
470	356	NR	600	852	NR	730	42	NR	860	1	NR	990	0	NR
475	250	NR	605	845	NR	735	36	NR	865	1	NR	995	0	NR
480	212	NR	610	827	NR	740	30	NR	870	1	NR	1000	0	NR
485	221	NR	615	801	NR	745	26	NR	875	1	NR			

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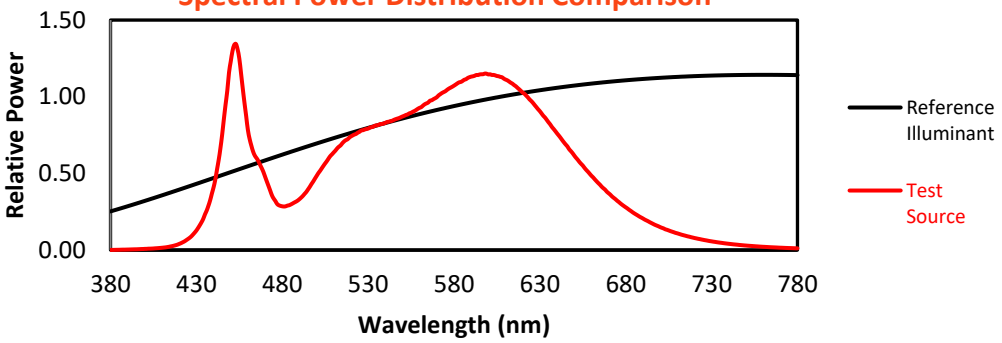
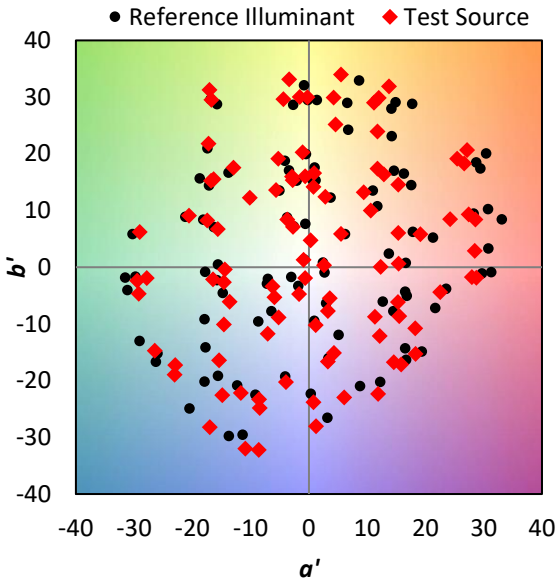
Summary

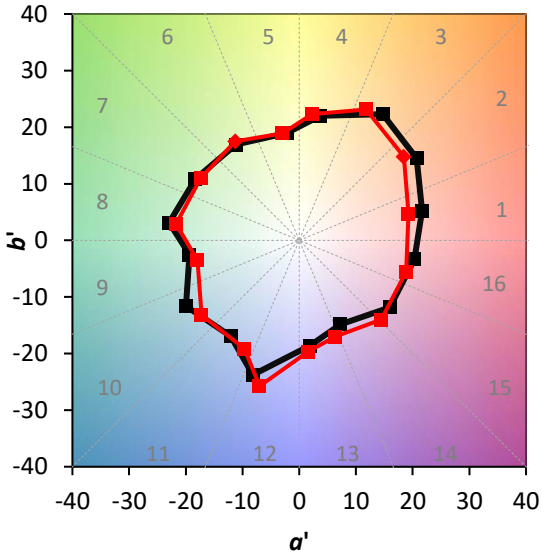
R_f = 84.4
R_g = 96.5
CIE R_a = 84.5
R_9 = 15.9

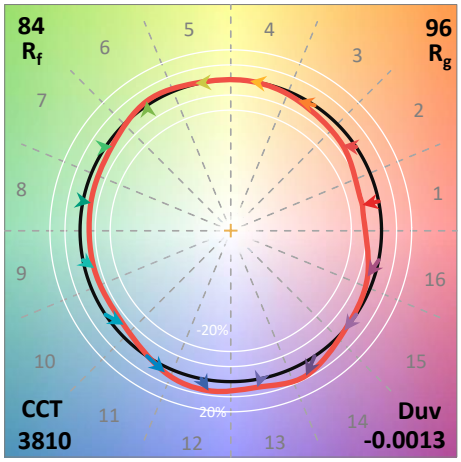
Spectral Power Distribution Comparison

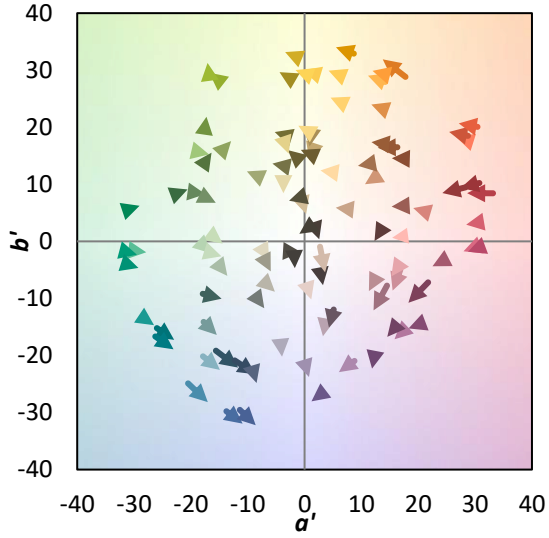


Color Vector Graphics









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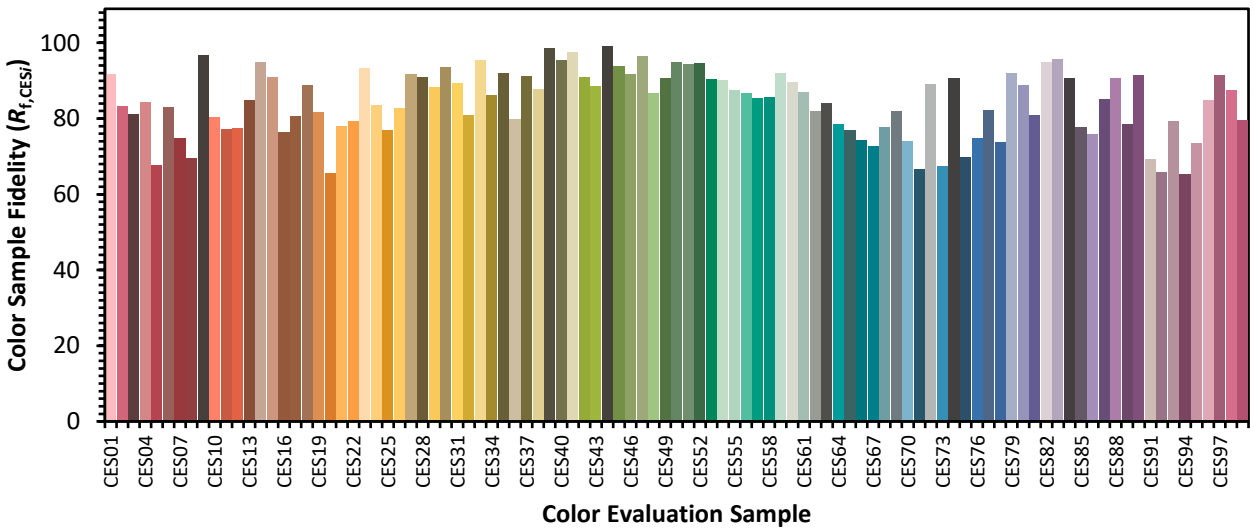
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 83	CES51 = 94	CES76 = 75
CES02 = 62	CES27 = 92	CES52 = 95	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 90	CES78 = 74
CES04 = 70	CES29 = 88	CES54 = 90	CES79 = 92
CES05 = 48	CES30 = 94	CES55 = 88	CES80 = 89
CES06 = 51	CES31 = 89	CES56 = 87	CES81 = 81
CES07 = 41	CES32 = 81	CES57 = 86	CES82 = 95
CES08 = 40	CES33 = 95	CES58 = 86	CES83 = 96
CES09 = 29	CES34 = 86	CES59 = 92	CES84 = 91
CES10 = 75	CES35 = 92	CES60 = 90	CES85 = 78
CES11 = 57	CES36 = 80	CES61 = 87	CES86 = 76
CES12 = 63	CES37 = 91	CES62 = 82	CES87 = 85
CES13 = 43	CES38 = 88	CES63 = 84	CES88 = 91
CES14 = 74	CES39 = 98	CES64 = 79	CES89 = 78
CES15 = 71	CES40 = 96	CES65 = 77	CES90 = 92
CES16 = 47	CES41 = 98	CES66 = 74	CES91 = 69
CES17 = 49	CES42 = 91	CES67 = 73	CES92 = 66
CES18 = 56	CES43 = 89	CES68 = 78	CES93 = 79
CES19 = 71	CES44 = 99	CES69 = 82	CES94 = 65
CES20 = 65	CES45 = 94	CES70 = 74	CES95 = 74
CES21 = 86	CES46 = 92	CES71 = 67	CES96 = 85
CES22 = 78	CES47 = 97	CES72 = 89	CES97 = 91
CES23 = 91	CES48 = 87	CES73 = 68	CES98 = 87
CES24 = 90	CES49 = 91	CES74 = 91	CES99 = 80
CES25 = 71	CES50 = 95	CES75 = 70	



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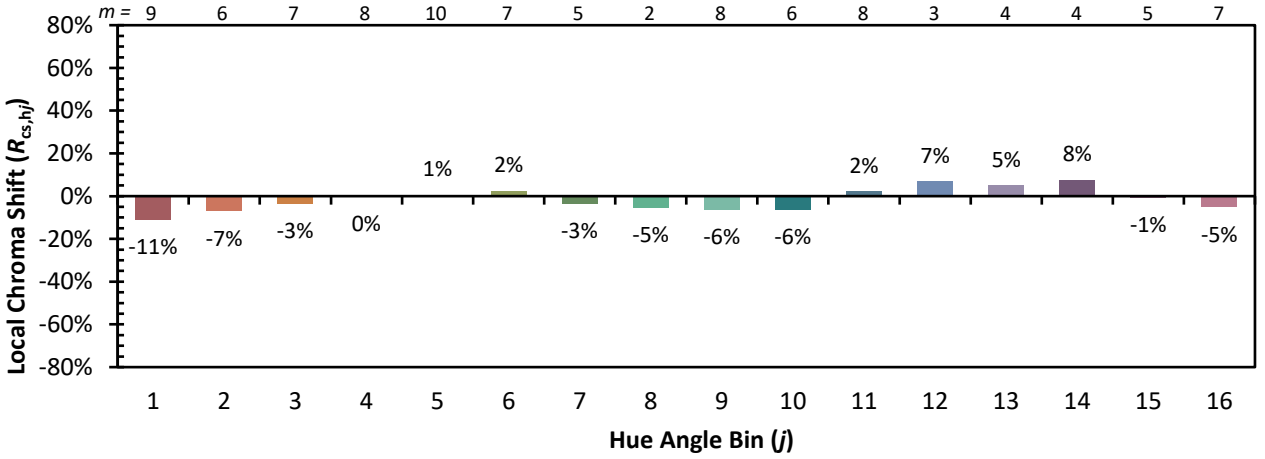
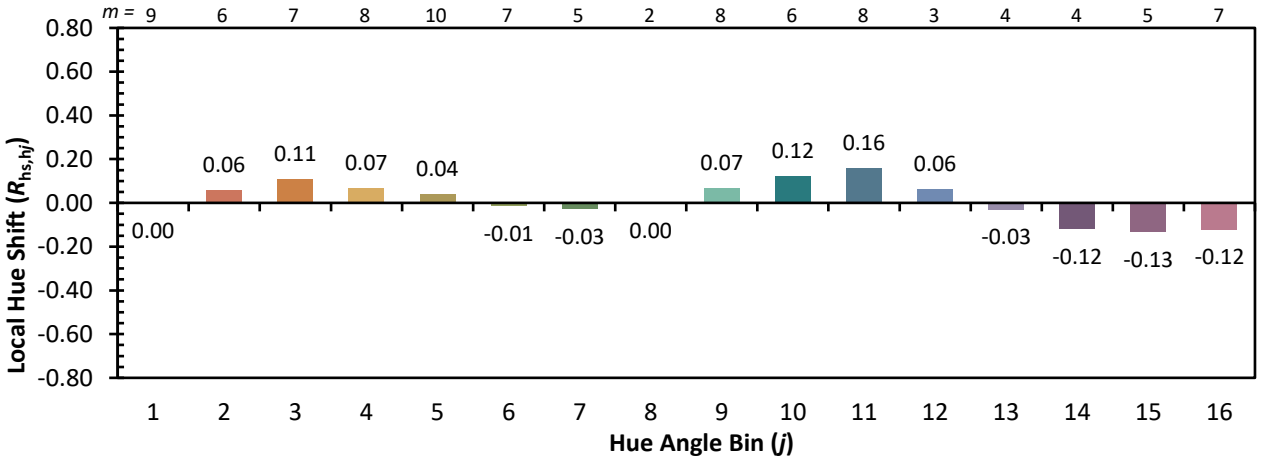
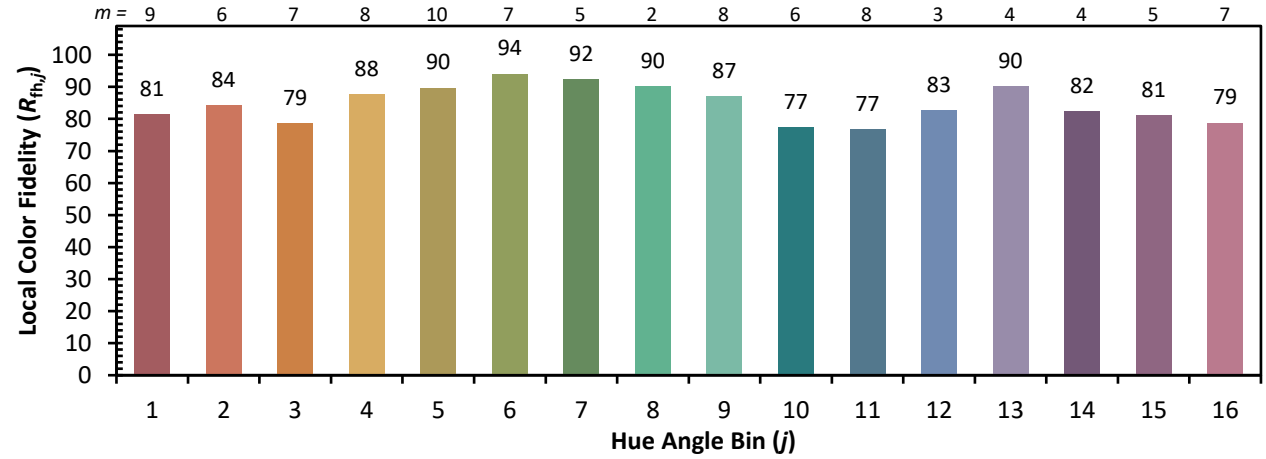
Color Rendition by Hue-Angle Bin







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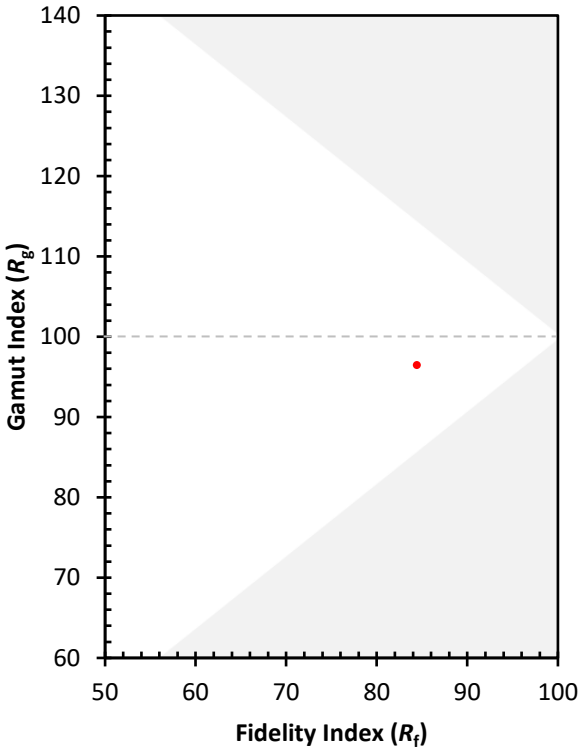
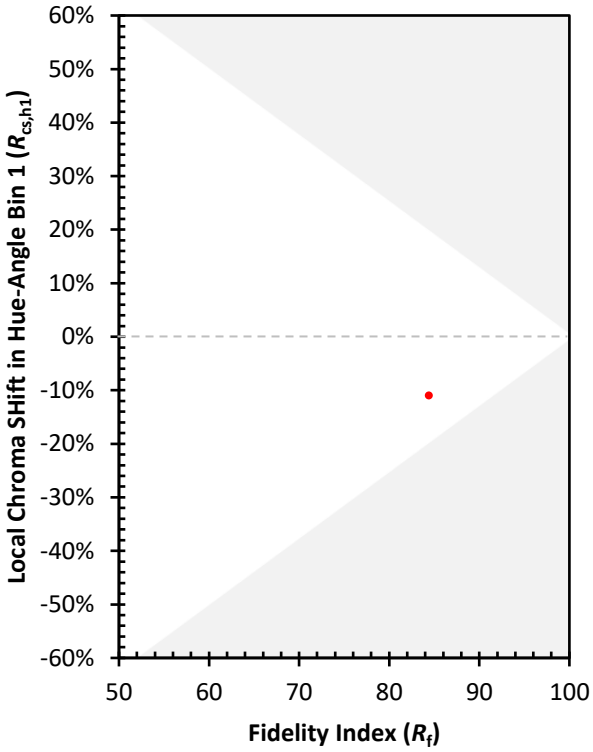
Measure Comparisons





(END OF REPORT)