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: P1449817

Luminaire Tested: **TWC100_T2_100W_5000K**

Issue Date: 5/19/2026

Report Generated By 670246072

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1449817
	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_5000K
Description:	Tapered Wall Cutoff Wall Mount Luminaire at, T2 distribution, 100W 5000K settings
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	16724 lumens
Efficiency:	N/A
Efficacy:	170.0 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):	98.4
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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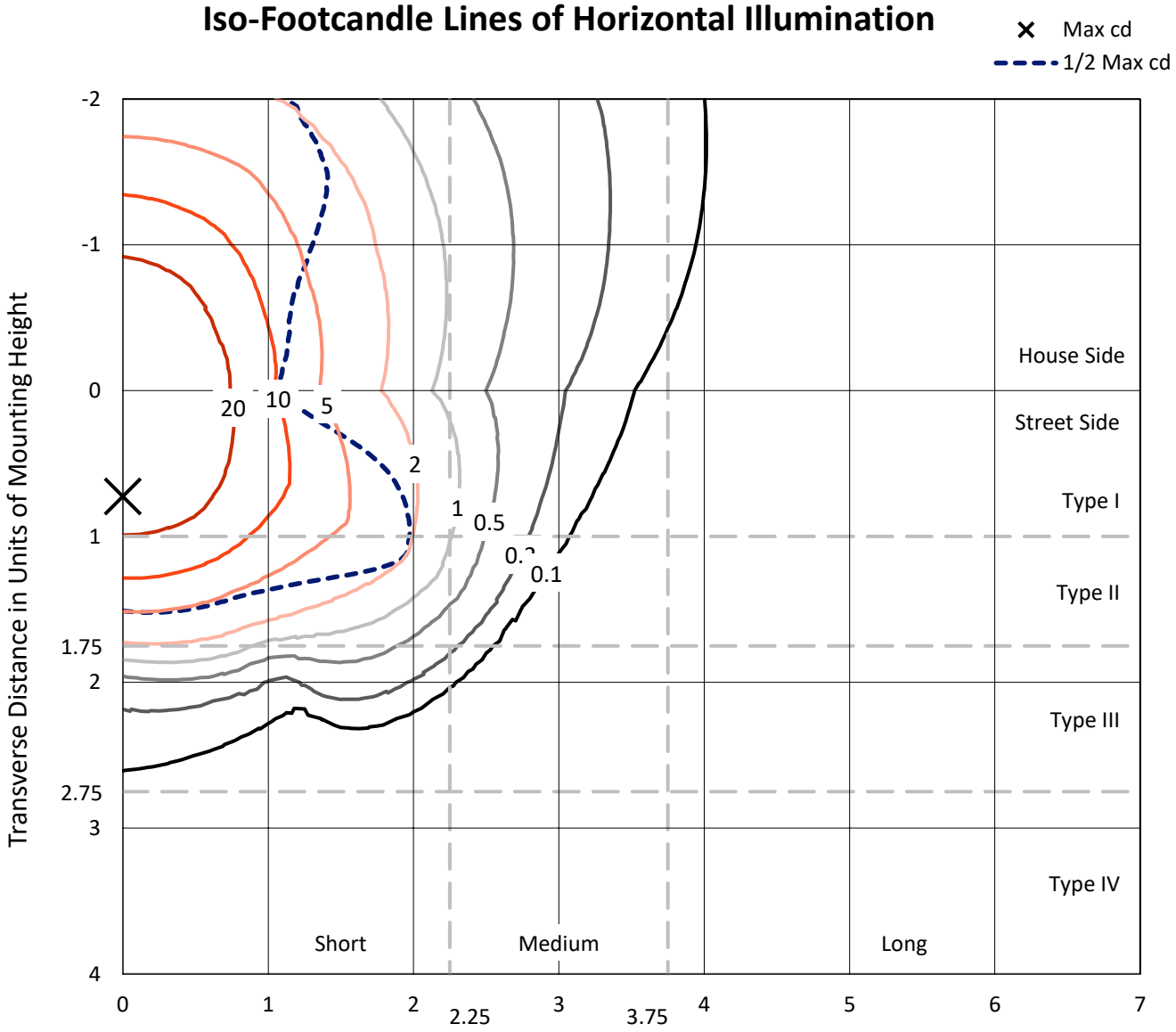
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 49 fc
Type II - Short - N/A

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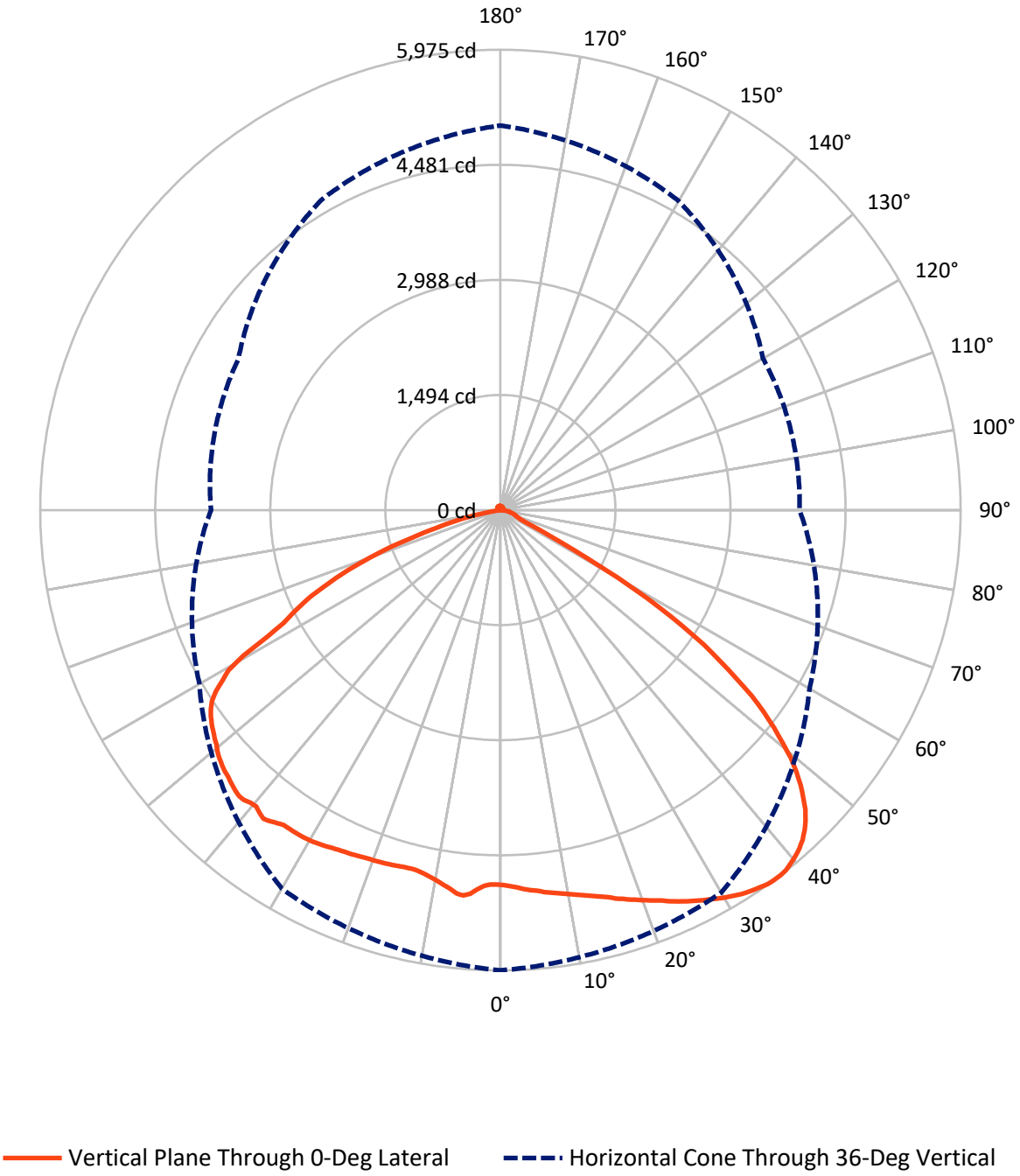
Luminous Intensity Polar Plot



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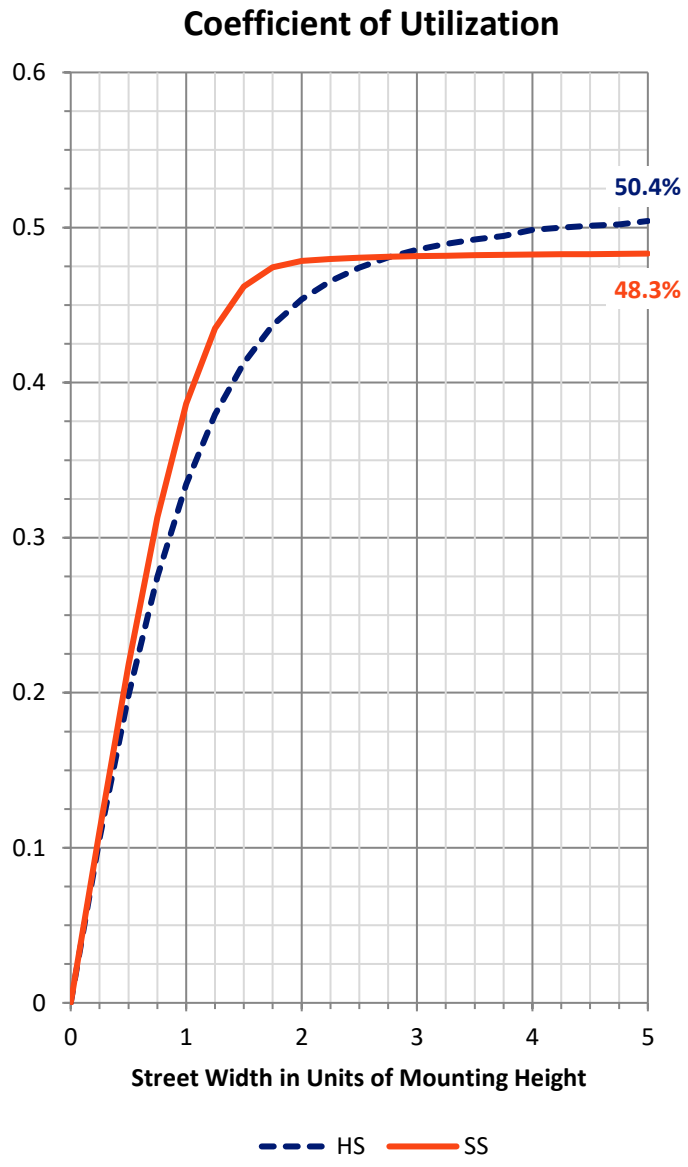
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8465.4	90.2	8555.6
	% Fixture	50.6	0.5	51.2
Street Side	Lumens	8078.2	90.2	8168.4
	% Fixture	48.3	0.5	48.8
Total	Lumens	16543.6	180.4	16724.0
	% Fixture	98.9	1.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.9	2.8
10°-20°	1379.9	8.3
20°-30°	2227.9	13.3
30°-40°	2953.0	17.7
40°-50°	3381.1	20.2
50°-60°	3205.8	19.2
60°-70°	2006.8	12.0
70°-80°	764.5	4.6
80°-90°	155.6	0.9
90°-100°	7.9	0.0
100°-110°	15.8	0.1
110°-120°	24.4	0.1
120°-130°	30.2	0.2
130°-140°	31.5	0.2
140°-150°	28.8	0.2
150°-160°	22.6	0.1
160°-170°	14.3	0.1
170°-180°	4.9	0.0
0°-90°	16543.6	98.9
0°-180°	16724.0	100.0



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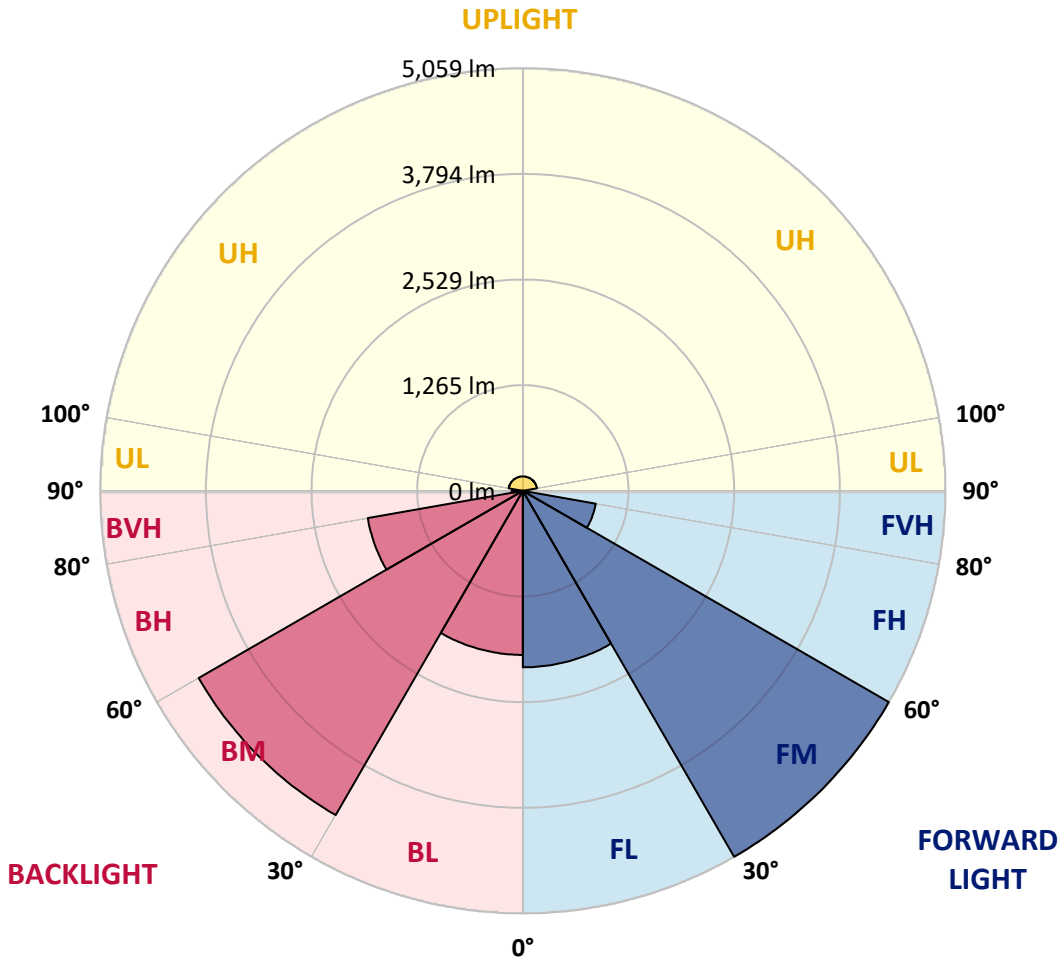
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2112.7	12.6			
FM	(30°-60°)	5058.5	30.2			
FH	(60°-80°)	886.2	5.3			G1/1800
FVH	(80°-90°)	20.8	0.1			G1/100
BL	(0°-30°)	1964.1	11.7	B3/2500		
BM	(30°-60°)	4481.4	26.8	B3/5000		
BH	(60°-80°)	1885.1	11.3	B3/2500		G3/2500
BVH	(80°-90°)	134.8	0.8			G2/225
UL	(90°-100°)	7.9	0.0		U1/10	
UH	(100°-180°)	172.5	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°	4867.7	4867.7	4867.7	4867.7	4867.7	4867.7	4867.7	4867.7	4867.7	4867.7	4867.7
1°	4885.3	4883.2	4879.4	4866.0	4861.6	4854.2	4860.7	4856.7	4853.5	4863.2	4873.2
2°	4903.5	4899.9	4886.4	4871.1	4855.1	4841.2	4862.3	4849.7	4845.7	4858.0	4881.5
3°	4928.3	4919.3	4896.9	4868.9	4845.1	4839.0	4882.3	4859.9	4838.6	4856.0	4889.1
4°	4948.1	4937.3	4905.9	4863.8	4837.9	4848.3	4930.9	4885.4	4838.2	4848.7	4893.0
5°	4964.5	4951.3	4908.8	4857.4	4834.4	4874.7	4995.6	4944.4	4838.6	4837.9	4902.1
6°	4989.9	4963.8	4911.0	4839.0	4832.4	4934.0	5026.4	4994.2	4844.1	4825.7	4903.3
7°	5008.9	4978.4	4912.8	4829.9	4837.1	4984.3	5009.2	5013.9	4855.9	4812.8	4901.7
8°	5029.3	4992.6	4913.4	4818.8	4848.4	5004.1	4961.4	4996.7	4881.5	4799.1	4899.5
9°	5049.5	5012.9	4911.6	4808.7	4867.1	4979.4	4925.5	4940.6	4910.0	4783.8	4888.6
10°	5072.1	5027.2	4908.4	4793.7	4902.4	4932.7	4889.0	4902.3	4928.2	4758.5	4884.4
11°	5096.4	5042.4	4906.2	4775.7	4920.4	4893.1	4858.9	4864.6	4926.4	4738.1	4877.9
12°	5125.9	5060.7	4902.1	4754.1	4923.9	4856.6	4830.3	4833.2	4910.5	4718.3	4872.0
13°	5152.9	5074.8	4896.7	4732.8	4909.2	4823.9	4810.9	4797.7	4871.0	4696.1	4861.3
14°	5183.2	5093.9	4891.6	4712.3	4875.1	4790.0	4796.9	4766.2	4823.6	4677.3	4853.8
15°	5214.8	5114.7	4879.9	4682.5	4824.0	4758.8	4798.7	4748.2	4778.5	4652.1	4845.1
16°	5258.2	5137.4	4872.8	4658.9	4779.0	4737.9	4801.9	4737.9	4732.9	4624.9	4842.9
17°	5292.1	5169.4	4868.4	4632.5	4733.6	4727.3	4812.6	4730.4	4688.1	4597.7	4835.8
18°	5331.7	5193.3	4869.3	4605.0	4687.6	4719.1	4819.9	4725.0	4636.3	4562.5	4827.8
19°	5368.2	5219.8	4862.5	4581.0	4644.3	4713.8	4826.7	4720.7	4591.1	4534.0	4819.1
20°	5407.7	5249.8	4857.6	4551.9	4597.1	4699.8	4833.9	4711.7	4545.2	4506.4	4801.1
21°	5447.6	5278.1	4843.7	4525.6	4544.9	4693.1	4837.5	4707.9	4502.0	4480.4	4789.7
22°	5487.0	5308.7	4836.5	4496.7	4498.9	4689.5	4846.1	4703.9	4463.3	4454.7	4778.5
23°	5539.4	5339.2	4829.2	4461.1	4461.8	4689.7	4855.5	4700.9	4430.4	4432.0	4773.4
24°	5583.4	5369.1	4819.5	4434.8	4423.7	4687.6	4867.7	4702.1	4397.1	4410.3	4761.9
25°	5625.9	5401.2	4815.5	4411.7	4390.6	4683.6	4875.7	4700.7	4364.5	4394.4	4747.2
26°	5668.0	5432.9	4802.7	4394.8	4355.3	4680.9	4885.7	4698.2	4328.9	4379.3	4730.6
27°	5709.8	5475.0	4791.0	4377.3	4319.5	4673.7	4901.4	4692.5	4290.7	4358.6	4709.1
28°	5748.3	5506.8	4775.7	4360.2	4275.8	4668.3	4918.9	4687.2	4251.3	4318.5	4689.5
29°	5789.7	5539.0	4759.4	4336.8	4237.1	4663.0	4931.1	4681.6	4212.6	4281.7	4670.6
30°	5828.8	5567.5	4743.5	4302.1	4196.4	4656.8	4946.0	4681.0	4164.1	4233.7	4650.4
31°	5864.7	5592.7	4729.3	4260.2	4155.1	4651.8	4954.9	4673.7	4124.1	4167.3	4624.7
32°	5896.0	5623.2	4710.4	4210.9	4106.1	4645.8	4961.1	4672.4	4084.3	4088.6	4603.6
33°	5923.0	5652.7	4694.3	4144.3	4062.9	4642.7	4963.5	4669.7	4047.8	4006.1	4581.9
34°	5944.6	5682.4	4675.3	4049.7	4020.6	4638.8	4962.4	4667.0	4008.6	3930.5	4564.1
35°	5966.9	5712.6	4653.4	3966.8	3978.5	4639.3	4963.6	4662.0	3969.1	3853.8	4540.0
36°	5975.3	5733.8	4634.1	3882.6	3936.9	4630.3	4991.3	4648.6	3927.9	3757.7	4513.5
37°	5974.5	5750.7	4614.0	3796.6	3895.7	4617.0	5024.1	4636.1	3878.4	3674.2	4487.8
38°	5964.1	5762.3	4592.1	3710.1	3852.5	4601.3	5052.0	4634.1	3835.5	3589.2	4451.6
39°	5934.0	5768.8	4571.3	3623.1	3808.8	4591.7	5024.0	4643.9	3788.1	3502.3	4430.2
40°	5902.5	5766.1	4555.1	3536.8	3752.8	4606.5	4985.1	4664.1	3736.8	3411.8	4408.8
41°	5860.2	5755.1	4538.1	3452.2	3705.6	4626.6	4996.9	4647.4	3685.0	3332.4	4390.9
42°	5806.9	5735.3	4527.3	3356.8	3654.9	4611.9	5025.9	4588.1	3636.1	3256.3	4380.0
43°	5736.0	5696.8	4518.9	3275.8	3602.9	4552.4	5029.7	4575.9	3581.8	3176.2	4366.0
44°	5652.2	5652.8	4512.5	3198.4	3543.8	4538.9	5010.0	4588.2	3522.4	3098.6	4354.6

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REPORT NUMBER: P1449817
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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	5551.7	5597.1	4511.5	3120.2	3485.2	4552.5	4980.5	4584.8	3461.1	3019.9	4348.0
46°	5420.6	5526.2	4512.3	3036.9	3417.5	4549.9	4951.6	4558.5	3411.9	2936.1	4345.1
47°	5285.3	5441.6	4513.2	2952.9	3361.5	4525.9	4930.3	4531.5	3383.5	2840.2	4341.6
48°	5130.6	5336.8	4517.6	2866.8	3331.5	4498.5	4901.0	4504.6	3349.5	2755.4	4338.6
49°	4957.8	5214.8	4521.5	2779.4	3300.3	4470.9	4868.9	4477.5	3244.5	2670.1	4340.9
50°	4745.8	5075.9	4525.9	2684.4	3213.2	4444.1	4830.8	4439.5	3169.9	2583.6	4336.1
51°	4540.6	4892.0	4532.6	2598.5	3119.3	4407.0	4779.7	4398.0	3127.9	2496.2	4337.7
52°	4315.6	4710.1	4535.2	2509.4	3077.8	4368.6	4742.1	4356.6	3071.7	2405.0	4340.8
53°	4062.0	4507.6	4538.4	2410.8	3025.7	4326.1	4703.3	4312.4	3013.0	2317.0	4343.4
54°	3759.1	4268.4	4537.1	2321.9	2964.8	4281.1	4662.5	4268.8	2949.3	2227.7	4348.8
55°	3466.2	4027.3	4535.1	2231.7	2897.5	4238.6	4618.4	4229.6	2884.1	2135.9	4347.2
56°	3164.9	3753.8	4528.7	2141.9	2830.3	4200.1	4562.2	4191.4	2818.2	2029.8	4341.2
57°	2801.7	3422.2	4511.2	2043.4	2757.9	4157.0	4490.6	4153.6	2736.2	1935.4	4329.1
58°	2429.9	3098.7	4485.9	1948.7	2672.2	4118.9	4381.9	4100.3	2658.1	1841.9	4302.7
59°	2012.1	2768.3	4437.9	1854.3	2590.4	4076.2	4231.4	4047.8	2581.4	1738.2	4268.6
60°	1515.3	2421.9	4376.8	1748.1	2511.9	4024.8	4097.9	3985.7	2508.7	1644.1	4217.3
61°	1069.8	2001.5	4289.0	1656.7	2426.8	3959.4	3831.6	3891.6	2434.7	1549.6	4145.5
62°	713.3	1580.2	4170.3	1564.9	2355.3	3872.2	3439.5	3754.5	2370.2	1454.4	4031.3
63°	470.0	1129.8	3981.6	1470.3	2282.4	3757.0	3174.6	3631.4	2304.4	1361.0	3880.1
64°	324.9	723.2	3749.9	1367.7	2211.2	3626.7	3022.5	3365.7	2240.5	1286.0	3669.9
65°	280.7	413.7	3453.5	1286.8	2139.4	3325.5	2870.6	3075.9	2174.3	1190.6	3384.1
66°	261.6	261.0	3086.2	1201.4	2072.4	3051.8	2706.6	2917.3	2110.7	1099.9	2979.9
67°	246.6	205.2	2609.8	1087.6	2004.4	2916.3	2503.4	2809.7	2041.8	1013.5	2535.1
68°	231.4	184.6	2111.8	989.4	1932.8	2801.1	2314.7	2704.1	1960.2	917.9	2047.3
69°	217.0	169.5	1579.4	897.4	1849.8	2697.1	2120.4	2565.0	1878.5	828.2	1460.0
70°	205.2	154.3	1062.1	812.7	1770.5	2574.2	1897.2	2433.1	1792.9	742.1	967.8
71°	197.2	142.2	667.7	721.7	1684.2	2446.8	1689.8	2304.0	1697.7	653.0	592.7
72°	186.2	133.8	374.6	642.1	1581.9	2312.0	1473.1	2170.4	1554.9	575.5	342.6
73°	175.4	125.7	216.7	567.5	1444.2	2180.5	1232.3	2017.2	1424.9	503.2	202.4
74°	160.8	115.5	166.2	499.5	1313.1	2042.6	1032.9	1867.0	1346.3	431.9	165.5
75°	149.8	103.6	142.5	430.1	1235.9	1899.7	856.6	1690.7	1264.2	374.4	143.2
76°	137.9	91.3	127.3	372.9	1157.8	1715.6	705.6	1487.7	1182.4	321.9	129.3
77°	129.5	82.5	118.3	324.6	1077.4	1520.8	568.3	1275.6	1107.1	275.4	120.3
78°	121.0	74.6	112.6	281.1	1006.3	1323.1	458.9	1098.6	1036.7	229.9	117.0
79°	113.8	68.7	104.3	239.6	939.4	1138.9	344.1	944.0	962.5	192.3	109.5
80°	106.2	62.7	88.3	204.1	864.3	965.0	191.1	801.7	892.4	157.0	90.8
81°	96.8	57.7	69.9	164.9	794.0	820.6	76.9	653.2	822.9	123.7	72.0
82°	86.7	52.2	55.2	122.3	724.3	679.9	55.0	500.4	754.9	91.7	55.2
83°	61.5	43.2	42.9	91.7	651.4	484.1	44.4	286.1	668.3	68.3	42.2
84°	43.8	35.6	35.6	66.9	565.1	247.3	32.5	103.4	579.1	49.6	34.8
85°	34.5	27.8	29.5	47.6	482.7	74.4	23.7	33.8	483.1	35.0	28.4
86°	25.6	21.2	24.2	31.2	391.0	27.3	14.1	20.9	396.3	23.4	23.4
87°	15.2	15.1	18.3	19.7	299.9	15.1	8.0	12.0	277.8	15.5	17.7
88°	7.5	8.4	10.9	10.1	158.1	7.1	4.4	5.7	116.6	9.7	11.2
89°	3.6	5.0	5.0	3.9	23.8	2.5	2.2	2.6	7.5	6.5	8.3

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Scaled Data Report

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	3.0	4.6	4.0	2.8	2.2	0.0	2.1	2.6	6.6	6.1	8.9
91°	3.6	5.3	4.6	2.6	2.4	0.0	2.5	2.8	7.5	6.6	9.4
92°	3.9	5.7	4.7	3.0	2.8	0.0	2.6	3.2	8.2	7.1	10.0
93°	4.7	6.5	5.5	3.2	3.2	0.0	3.0	3.6	8.9	7.8	10.8
94°	5.1	6.9	5.7	3.6	3.7	0.0	3.6	4.3	9.4	8.6	11.3
95°	5.8	7.6	6.4	3.7	4.4	1.5	4.0	5.0	10.2	9.1	12.2
96°	6.5	8.3	6.8	4.2	4.7	1.5	4.4	5.5	11.2	9.6	12.9
97°	7.2	9.0	7.3	4.6	5.0	1.7	4.8	6.4	12.2	10.4	13.6
98°	8.0	10.0	7.8	5.1	5.8	2.1	5.8	7.3	12.9	11.1	14.5
99°	8.9	10.7	8.3	5.8	6.4	2.1	6.6	8.2	13.8	11.8	15.1
100°	9.7	11.8	8.6	6.2	7.1	2.8	7.2	9.3	14.8	12.7	15.9
101°	10.5	12.6	9.4	6.8	7.3	3.3	8.3	10.1	15.8	13.4	16.5
102°	11.6	13.4	10.1	7.3	8.2	3.6	9.1	11.1	16.8	14.5	17.3
103°	12.7	14.3	10.5	7.9	8.9	4.3	10.1	12.6	18.0	15.1	18.3
104°	13.8	15.1	11.1	8.6	9.8	4.8	11.3	13.7	19.0	16.1	19.0
105°	15.1	15.8	11.8	9.1	10.5	5.5	12.5	14.8	19.9	16.8	19.7
106°	16.1	16.8	12.5	10.0	11.3	6.5	13.6	16.2	21.3	17.9	20.4
107°	16.9	17.7	13.2	10.4	12.2	7.2	15.1	17.4	22.2	18.7	21.2
108°	18.0	18.6	13.8	11.2	13.0	8.0	16.5	19.1	23.4	19.5	22.2
109°	19.3	19.4	14.7	12.0	14.1	9.0	17.6	20.2	24.5	20.5	22.9
110°	19.9	20.4	15.1	12.9	14.8	10.1	19.3	21.7	25.9	21.5	23.5
111°	21.3	21.3	15.9	13.6	15.9	11.1	20.6	23.3	26.6	22.3	24.2
112°	22.3	22.3	16.6	14.3	16.5	12.3	22.2	24.8	27.7	23.3	24.9
113°	23.5	23.3	17.3	15.1	17.6	13.3	23.7	25.9	28.7	24.1	25.9
114°	24.6	24.2	18.1	16.1	18.1	14.5	25.2	27.8	29.5	25.1	26.3
115°	25.6	25.1	18.6	16.8	18.8	15.9	26.7	29.4	30.3	26.0	27.1
116°	26.6	25.8	19.4	17.4	19.4	17.2	28.4	30.9	31.3	27.0	28.0
117°	27.7	26.7	20.1	18.3	20.6	18.4	29.8	32.1	32.1	28.0	28.8
118°	28.8	27.7	20.8	19.3	21.0	19.7	31.7	33.8	33.2	28.8	29.5
119°	29.5	28.5	21.5	19.9	22.0	20.9	33.2	34.9	33.9	29.9	30.3
120°	30.7	29.2	22.4	20.6	23.0	22.3	34.8	36.1	34.6	30.7	30.7
121°	31.6	29.9	23.1	21.7	23.5	23.5	36.4	37.4	35.4	31.4	31.4
122°	32.5	30.7	24.0	22.3	24.5	24.5	37.8	38.8	35.9	32.4	32.0
123°	33.2	31.6	24.5	23.4	25.3	25.9	39.2	40.0	36.8	33.2	32.7
124°	34.1	32.1	25.2	24.0	26.2	26.9	40.4	40.8	37.7	34.1	33.0
125°	34.9	33.0	25.9	24.8	26.9	27.8	41.8	42.1	38.5	34.8	34.1
126°	35.7	33.8	26.3	25.9	28.0	29.1	42.8	43.1	39.5	35.3	34.3
127°	36.6	34.5	27.1	26.6	28.9	30.1	43.8	43.8	39.9	36.1	35.2
128°	37.0	35.2	27.8	27.4	29.8	31.0	45.0	44.9	40.8	36.6	35.9
129°	37.9	35.7	28.1	28.1	30.7	31.7	45.8	45.7	41.8	37.1	36.3
130°	39.0	36.6	29.2	28.8	31.7	32.8	46.9	46.3	42.4	37.9	36.8
131°	40.0	37.0	29.5	29.5	33.0	33.6	47.8	46.9	42.9	38.8	37.2
132°	40.0	37.7	30.2	30.2	33.9	34.8	48.6	47.8	43.9	39.0	38.1
133°	40.7	38.2	31.2	30.7	34.8	35.6	49.4	48.5	44.6	39.6	38.2
134°	41.1	38.6	31.7	31.6	36.0	36.3	50.1	49.0	45.6	40.2	39.0

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

Scaled Data Report

REPORT NUMBER: P1449817
CATALOG NUMBER: TWC100_T2_100W_5000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
135°	41.7	39.5	32.3	32.0	37.0	37.4	51.0	49.3	46.0	40.6	39.6
136°	42.7	40.0	33.0	32.8	37.9	38.2	51.4	49.7	46.7	41.1	40.0
137°	42.9	39.9	33.5	33.4	39.2	39.3	51.8	50.4	47.1	41.7	40.0
138°	43.8	40.4	34.2	34.2	39.9	40.0	52.5	51.0	47.5	42.2	40.8
139°	44.0	41.0	34.6	34.8	40.7	40.8	52.3	51.2	47.9	42.7	41.3
140°	44.6	41.4	35.2	35.3	41.5	42.0	53.2	51.8	48.5	43.1	41.8
141°	44.9	42.0	35.7	35.9	42.2	42.9	53.5	52.1	48.7	43.3	42.2
142°	45.7	42.2	36.1	36.6	43.1	44.2	54.0	52.2	49.3	44.2	42.9
143°	45.8	42.5	37.2	37.2	43.8	44.9	54.0	52.8	49.7	44.7	43.1
144°	46.0	42.9	37.2	37.8	44.4	46.1	54.6	53.0	50.0	45.3	43.8
145°	46.1	43.5	37.9	37.9	45.1	46.8	54.4	53.2	50.1	45.6	44.0
146°	46.5	43.3	38.5	38.6	45.4	47.6	54.7	53.5	50.5	46.1	44.4
147°	46.7	43.9	39.0	39.3	46.0	48.5	54.8	53.5	50.7	46.5	44.9
148°	46.8	44.2	39.6	39.7	46.4	49.2	54.8	53.9	51.1	46.5	45.4
149°	47.2	44.4	40.2	40.2	46.7	49.7	55.0	54.0	51.1	47.4	46.0
150°	47.1	44.6	40.6	41.0	47.1	50.3	54.7	54.0	51.5	47.6	46.0
151°	47.6	45.1	41.0	41.1	47.5	51.1	54.8	53.9	51.4	48.0	46.5
152°	47.8	45.0	41.4	42.0	47.8	51.5	54.8	54.0	51.6	48.5	46.8
153°	47.9	45.4	42.1	42.1	48.0	51.9	54.7	54.0	51.9	49.0	47.2
154°	47.9	45.4	42.4	43.1	48.3	51.9	54.4	54.0	51.9	48.9	47.5
155°	48.0	46.0	43.1	43.1	48.7	52.3	54.4	54.0	51.9	49.0	47.9
156°	48.2	46.0	43.3	44.0	48.9	52.6	54.3	53.7	51.8	49.4	48.2
157°	48.2	46.3	43.8	44.3	49.2	52.3	53.9	54.0	51.9	49.7	48.3
158°	48.7	46.1	44.4	44.7	49.6	52.9	53.7	53.3	51.9	50.3	48.6
159°	48.5	46.7	44.7	45.3	49.6	52.9	53.5	53.6	52.2	50.4	49.0
160°	48.6	46.8	45.3	46.3	49.9	53.0	53.2	53.3	52.2	50.4	49.3
161°	48.7	47.2	45.6	46.1	50.0	53.0	53.2	53.5	52.1	50.8	49.4
162°	48.7	47.4	46.0	46.5	50.3	53.3	53.2	53.3	52.1	50.8	49.6
163°	48.9	47.5	46.4	47.1	50.7	53.3	53.0	53.0	52.1	51.2	49.9
164°	49.2	47.6	46.9	47.8	50.8	53.3	52.8	53.0	52.2	51.2	49.9
165°	49.3	48.0	46.9	47.9	51.0	53.3	52.3	52.9	52.2	51.4	50.1
166°	49.4	48.2	47.4	48.2	51.1	53.3	52.2	52.6	52.3	51.4	50.3
167°	49.4	48.5	47.8	48.6	51.4	53.3	52.6	52.9	52.3	51.9	50.7
168°	49.6	48.5	48.2	49.0	51.4	53.3	52.5	52.9	52.2	51.9	50.8
169°	49.7	49.0	48.5	49.3	51.6	53.3	52.1	52.6	52.3	52.2	51.0
170°	49.9	49.2	49.0	50.0	51.9	53.2	52.1	52.2	52.5	52.1	51.1
171°	50.1	49.3	49.0	50.3	52.2	53.5	52.5	52.6	51.9	52.5	51.2
172°	50.4	49.4	49.9	50.5	52.1	53.2	52.3	52.3	52.3	52.5	51.8
173°	50.7	49.7	49.7	51.0	52.1	53.2	52.5	52.1	52.3	52.8	51.6
174°	51.0	50.0	50.4	51.2	52.1	53.0	52.5	52.3	52.1	52.9	51.9
175°	51.2	50.4	50.7	51.6	52.2	53.0	52.5	52.2	52.3	52.8	52.1
176°	51.8	50.7	51.0	51.5	52.3	53.0	52.6	52.5	52.2	53.0	52.1
177°	51.9	51.0	51.0	52.2	52.2	53.2	52.6	51.8	51.8	52.9	52.3
178°	51.9	51.2	51.2	52.1	52.3	53.0	52.2	52.1	51.9	52.9	52.2
179°	52.1	51.5	51.9	52.5	52.5	52.9	52.5	51.9	52.1	52.6	52.6

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

Scaled Data Report

REPORT NUMBER: P1449817
CATALOG NUMBER: TWC100_T2_100W_5000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
180°	*52.3*	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3

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Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1449817
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CANDELA DISTRIBUTION (continued):

	330°	360°
0°	4867.7	4867.7
1°	4885.0	4885.3
2°	4908.6	4903.5
3°	4923.2	4928.3
4°	4937.5	4948.1
5°	4946.6	4964.5
6°	4959.2	4989.9
7°	4972.3	5008.9
8°	4984.8	5029.3
9°	5002.3	5049.5
10°	5016.9	5072.1
11°	5032.6	5096.4
12°	5050.7	5125.9
13°	5065.4	5152.9
14°	5084.9	5183.2
15°	5104.3	5214.8
16°	5131.7	5258.2
17°	5155.4	5292.1
18°	5180.1	5331.7
19°	5204.4	5368.2
20°	5233.2	5407.7
21°	5260.5	5447.6
22°	5289.0	5487.0
23°	5319.2	5539.4
24°	5346.8	5583.4
25°	5378.8	5625.9
26°	5408.0	5668.0
27°	5442.5	5709.8
28°	5472.8	5748.3
29°	5502.7	5789.7
30°	5529.0	5828.8
31°	5553.9	5864.7
32°	5582.0	5896.0
33°	5609.0	5923.0
34°	5632.3	5944.6
35°	5658.2	5966.9
36°	*5674.8*	*5975.3*
37°	5686.0	5974.5
38°	5693.2	5964.1
39°	5691.6	5934.0
40°	5682.3	5902.5
41°	5669.1	5860.2
42°	5643.7	5806.9
43°	5600.7	5736.0
44°	5553.4	5652.2

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1449817
CATALOG NUMBER: TWC100_T2_100W_5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	5493.7	5551.7
46°	5418.0	5420.6
47°	5330.8	5285.3
48°	5223.7	5130.6
49°	5099.1	4957.8
50°	4934.4	4745.8
51°	4766.3	4540.6
52°	4577.6	4315.6
53°	4369.4	4062.0
54°	4122.0	3759.1
55°	3868.5	3466.2
56°	3581.4	3164.9
57°	3273.5	2801.7
58°	2917.0	2429.9
59°	2580.8	2012.1
60°	2216.5	1515.3
61°	1818.5	1069.8
62°	1347.2	713.3
63°	914.3	470.0
64°	562.3	324.9
65°	335.4	280.7
66°	221.1	261.6
67°	190.7	246.6
68°	173.4	231.4
69°	156.3	217.0
70°	142.1	205.2
71°	132.5	197.2
72°	125.0	186.2
73°	115.3	175.4
74°	104.7	160.8
75°	93.3	149.8
76°	83.8	137.9
77°	75.6	129.5
78°	68.5	121.0
79°	64.0	113.8
80°	59.4	106.2
81°	54.7	96.8
82°	48.6	86.7
83°	40.6	61.5
84°	34.1	43.8
85°	26.0	34.5
86°	21.3	25.6
87°	16.3	15.2
88°	11.3	7.5
89°	10.5	3.6

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Scaled Data Report

REPORT NUMBER: P1449817
CATALOG NUMBER: TWC100_T2_100W_5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
90°	11.3	3.0
91°	12.2	3.6
92°	13.3	3.9
93°	14.1	4.7
94°	15.2	5.1
95°	16.2	5.8
96°	17.2	6.5
97°	18.4	7.2
98°	19.4	8.0
99°	20.5	8.9
100°	21.7	9.7
101°	22.6	10.5
102°	23.5	11.6
103°	24.4	12.7
104°	25.8	13.8
105°	26.6	15.1
106°	27.6	16.1
107°	28.7	16.9
108°	29.6	18.0
109°	30.5	19.3
110°	31.3	19.9
111°	32.4	21.3
112°	33.2	22.3
113°	34.3	23.5
114°	35.0	24.6
115°	35.7	25.6
116°	36.6	26.6
117°	37.4	27.7
118°	37.9	28.8
119°	38.5	29.5
120°	39.2	30.7
121°	39.9	31.6
122°	39.9	32.5
123°	40.4	33.2
124°	41.1	34.1
125°	41.5	34.9
126°	41.8	35.7
127°	42.4	36.6
128°	42.8	37.0
129°	42.8	37.9
130°	43.5	39.0
131°	43.6	40.0
132°	43.8	40.0
133°	44.0	40.7
134°	44.6	41.1

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Scaled Data Report

REPORT NUMBER: P1449817
CATALOG NUMBER: TWC100_T2_100W_5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
135°	44.7	41.7
136°	45.0	42.7
137°	45.3	42.9
138°	45.6	43.8
139°	46.0	44.0
140°	45.7	44.6
141°	45.8	44.9
142°	46.1	45.7
143°	46.5	45.8
144°	46.5	46.0
145°	46.7	46.1
146°	46.8	46.5
147°	47.4	46.7
148°	47.1	46.8
149°	47.2	47.2
150°	47.4	47.1
151°	47.8	47.6
152°	47.9	47.8
153°	48.2	47.9
154°	48.0	47.9
155°	48.0	48.0
156°	48.3	48.2
157°	48.6	48.2
158°	48.6	48.7
159°	48.7	48.5
160°	48.7	48.6
161°	48.9	48.7
162°	49.0	48.7
163°	49.0	48.9
164°	49.3	49.2
165°	49.6	49.3
166°	49.7	49.4
167°	50.0	49.4
168°	50.1	49.6
169°	50.3	49.7
170°	50.4	49.9
171°	50.8	50.1
172°	50.7	50.4
173°	51.2	50.7
174°	51.5	51.0
175°	51.6	51.2
176°	51.8	51.8
177°	51.8	51.9
178°	52.3	51.9
179°	52.5	52.1

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

REPORT NUMBER: P1449817
CATALOG NUMBER: TWC100_T2_100W_5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
180°	52.3	52.3

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: SP1-2601-659-3

Test Date: 02/12/2026

Luminaire Tested: MWP2460W34VDDKYYAD-T4-24W-5000K

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.05

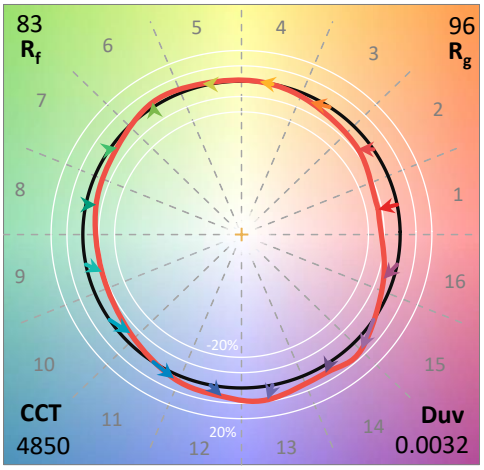
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2601-659-3
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-5000K**
Description:	Mester Wedge, at T4 beam setting, 24W output, 5000K

Spectral Parameters

CCT (K):	4850
CIE u':	0.2108
CIE v':	0.4905
Duv:	0.0032
CIE x:	0.3503
CIE y:	0.3623
CIE z:	0.2875
Peak Wavelength (nm):	452
Dominant Wavelength (nm):	571
Purity:	13.81051
Rf:	83.1
Rg:	95.8

CRI (Ra):	82.6
R1:	80.9
R2:	87.6
R3:	92.0
R4:	81.9
R5:	80.4
R6:	82.0
R7:	88.2
R8:	67.7
R9:	8.5
R10:	69.7
R11:	80.6
R12:	52.2
R13:	82.7
R14:	95.7
R15:	74.9



Test Conditions

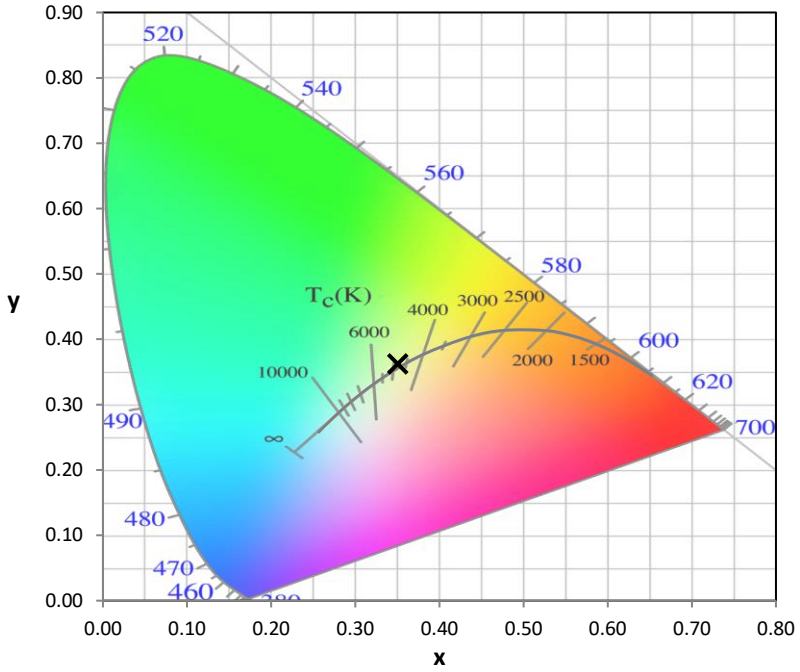
Stabilization Time:	25M
Operation Time:	1H 25M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2601-659-3

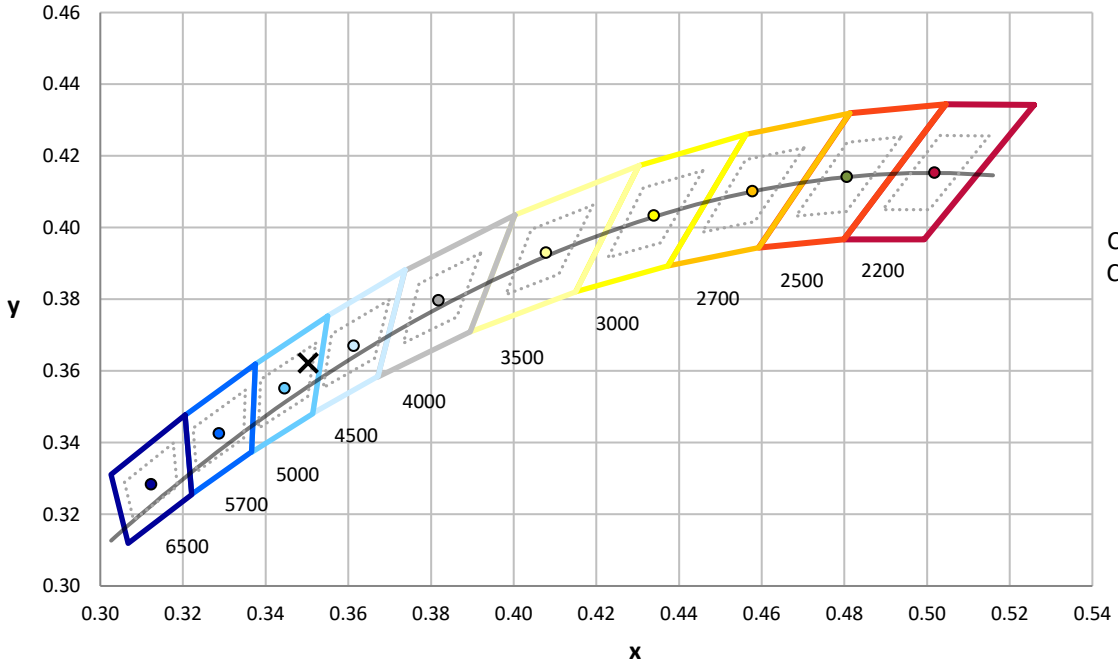
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	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: SP1-2601-659-3

CIE 1931 Chromaticity Diagram



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



CCT = 4850K
CIE x = 0.3503
CIE y = 0.3623
Duv = 0.0032

Point lies inside the ANSI 5000K 4-step quadrangle

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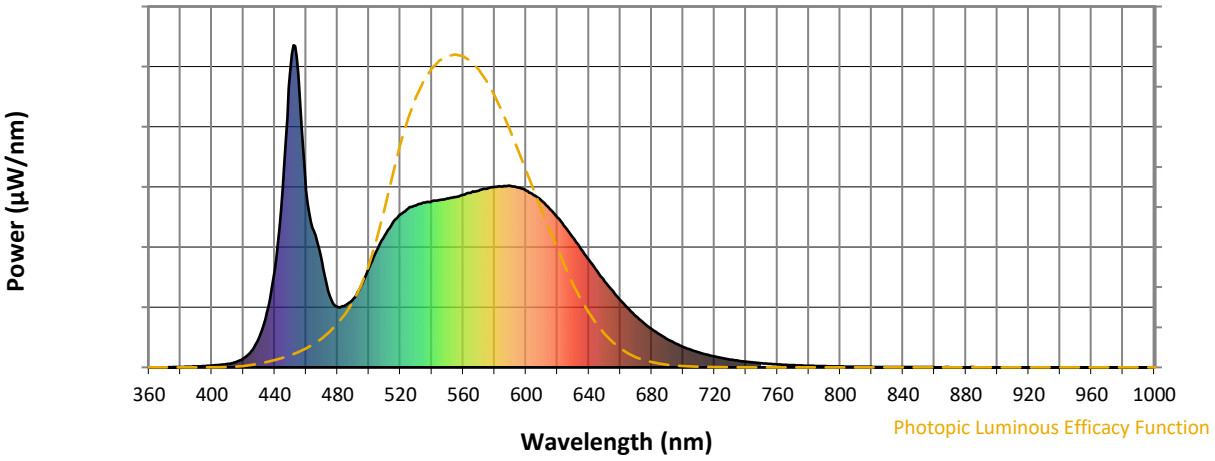
Photopic Flux vs. Wavelength



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	212	NR	620	465	NR	750	13	NR	880	0	NR
365	0	NR	495	253	NR	625	436	NR	755	11	NR	885	1	NR
370	0	NR	500	309	NR	630	403	NR	760	9	NR	890	0	NR
375	1	NR	505	363	NR	635	368	NR	765	8	NR	895	0	NR
380	1	NR	510	409	NR	640	334	NR	770	7	NR	900	0	NR
385	2	NR	515	448	NR	645	300	NR	775	6	NR	905	0	NR
390	3	NR	520	475	NR	650	268	NR	780	5	NR	910	0	NR
395	4	NR	525	493	NR	655	238	NR	785	4	NR	915	0	NR
400	6	NR	530	503	NR	660	209	NR	790	4	NR	920	0	NR
405	8	NR	535	512	NR	665	183	NR	795	3	NR	925	0	NR
410	11	NR	540	515	NR	670	159	NR	800	3	NR	930	0	NR
415	16	NR	545	520	NR	675	138	NR	805	2	NR	935	0	NR
420	28	NR	550	524	NR	680	119	NR	810	2	NR	940	0	NR
425	50	NR	555	528	NR	685	102	NR	815	2	NR	945	0	NR
430	92	NR	560	535	NR	690	88	NR	820	2	NR	950	0	NR
435	171	NR	565	542	NR	695	75	NR	825	1	NR	955	0	NR
440	300	NR	570	548	NR	700	64	NR	830	1	NR	960	0	NR
445	553	NR	575	555	NR	705	55	NR	835	1	NR	965	0	NR
450	925	NR	580	560	NR	710	46	NR	840	1	NR	970	0	NR
455	909	NR	585	562	NR	715	40	NR	845	1	NR	975	0	NR
460	550	NR	590	563	NR	720	34	NR	850	1	NR	980	0	NR
465	422	NR	595	558	NR	725	29	NR	855	1	NR	985	0	NR
470	328	NR	600	548	NR	730	24	NR	860	1	NR	990	0	NR
475	223	NR	605	534	NR	735	21	NR	865	0	NR	995	0	NR
480	188	NR	610	516	NR	740	18	NR	870	0	NR	1000	0	NR
485	193	NR	615	492	NR	745	15	NR	875	0	NR			

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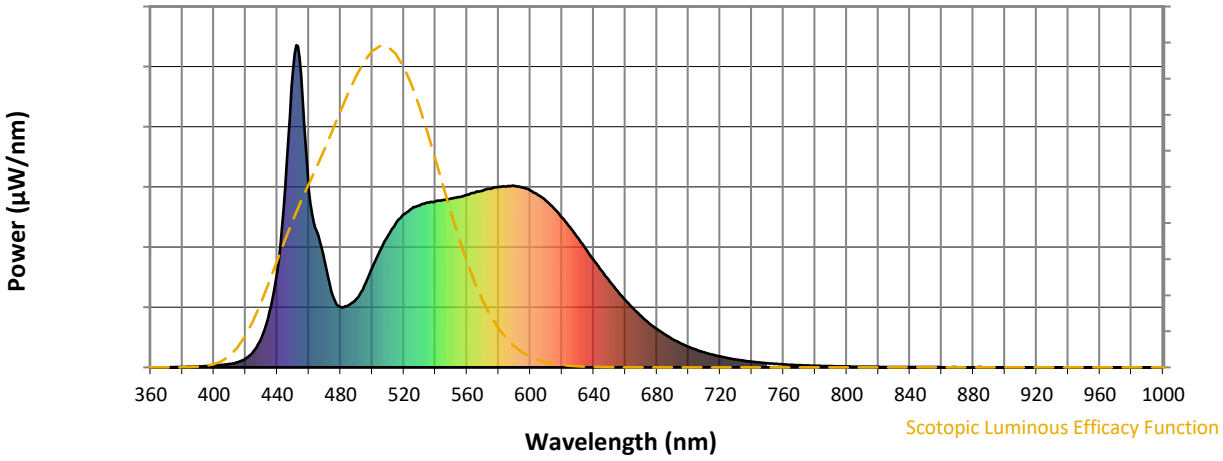
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.9**

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	212	NR	620	465	NR	750	13	NR	880	0	NR
365	0	NR	495	253	NR	625	436	NR	755	11	NR	885	1	NR
370	0	NR	500	309	NR	630	403	NR	760	9	NR	890	0	NR
375	1	NR	505	363	NR	635	368	NR	765	8	NR	895	0	NR
380	1	NR	510	409	NR	640	334	NR	770	7	NR	900	0	NR
385	2	NR	515	448	NR	645	300	NR	775	6	NR	905	0	NR
390	3	NR	520	475	NR	650	268	NR	780	5	NR	910	0	NR
395	4	NR	525	493	NR	655	238	NR	785	4	NR	915	0	NR
400	6	NR	530	503	NR	660	209	NR	790	4	NR	920	0	NR
405	8	NR	535	512	NR	665	183	NR	795	3	NR	925	0	NR
410	11	NR	540	515	NR	670	159	NR	800	3	NR	930	0	NR
415	16	NR	545	520	NR	675	138	NR	805	2	NR	935	0	NR
420	28	NR	550	524	NR	680	119	NR	810	2	NR	940	0	NR
425	50	NR	555	528	NR	685	102	NR	815	2	NR	945	0	NR
430	92	NR	560	535	NR	690	88	NR	820	2	NR	950	0	NR
435	171	NR	565	542	NR	695	75	NR	825	1	NR	955	0	NR
440	300	NR	570	548	NR	700	64	NR	830	1	NR	960	0	NR
445	553	NR	575	555	NR	705	55	NR	835	1	NR	965	0	NR
450	925	NR	580	560	NR	710	46	NR	840	1	NR	970	0	NR
455	909	NR	585	562	NR	715	40	NR	845	1	NR	975	0	NR
460	550	NR	590	563	NR	720	34	NR	850	1	NR	980	0	NR
465	422	NR	595	558	NR	725	29	NR	855	1	NR	985	0	NR
470	328	NR	600	548	NR	730	24	NR	860	1	NR	990	0	NR
475	223	NR	605	534	NR	735	21	NR	865	0	NR	995	0	NR
480	188	NR	610	516	NR	740	18	NR	870	0	NR	1000	0	NR
485	193	NR	615	492	NR	745	15	NR	875	0	NR			

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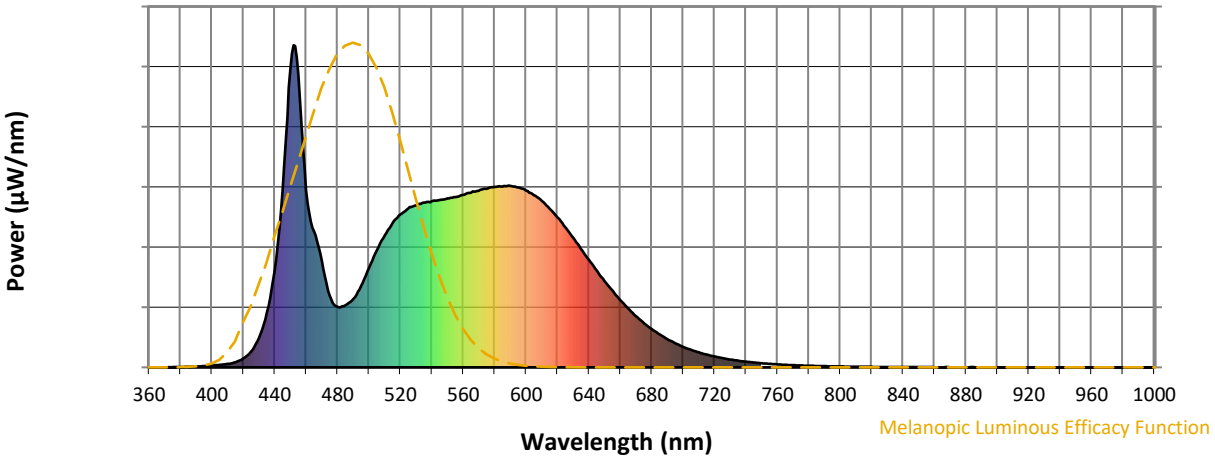
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 4**

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	212	NR	620	465	NR	750	13	NR	880	0	NR
365	0	NR	495	253	NR	625	436	NR	755	11	NR	885	1	NR
370	0	NR	500	309	NR	630	403	NR	760	9	NR	890	0	NR
375	1	NR	505	363	NR	635	368	NR	765	8	NR	895	0	NR
380	1	NR	510	409	NR	640	334	NR	770	7	NR	900	0	NR
385	2	NR	515	448	NR	645	300	NR	775	6	NR	905	0	NR
390	3	NR	520	475	NR	650	268	NR	780	5	NR	910	0	NR
395	4	NR	525	493	NR	655	238	NR	785	4	NR	915	0	NR
400	6	NR	530	503	NR	660	209	NR	790	4	NR	920	0	NR
405	8	NR	535	512	NR	665	183	NR	795	3	NR	925	0	NR
410	11	NR	540	515	NR	670	159	NR	800	3	NR	930	0	NR
415	16	NR	545	520	NR	675	138	NR	805	2	NR	935	0	NR
420	28	NR	550	524	NR	680	119	NR	810	2	NR	940	0	NR
425	50	NR	555	528	NR	685	102	NR	815	2	NR	945	0	NR
430	92	NR	560	535	NR	690	88	NR	820	2	NR	950	0	NR
435	171	NR	565	542	NR	695	75	NR	825	1	NR	955	0	NR
440	300	NR	570	548	NR	700	64	NR	830	1	NR	960	0	NR
445	553	NR	575	555	NR	705	55	NR	835	1	NR	965	0	NR
450	925	NR	580	560	NR	710	46	NR	840	1	NR	970	0	NR
455	909	NR	585	562	NR	715	40	NR	845	1	NR	975	0	NR
460	550	NR	590	563	NR	720	34	NR	850	1	NR	980	0	NR
465	422	NR	595	558	NR	725	29	NR	855	1	NR	985	0	NR
470	328	NR	600	548	NR	730	24	NR	860	1	NR	990	0	NR
475	223	NR	605	534	NR	735	21	NR	865	0	NR	995	0	NR
480	188	NR	610	516	NR	740	18	NR	870	0	NR	1000	0	NR
485	193	NR	615	492	NR	745	15	NR	875	0	NR			

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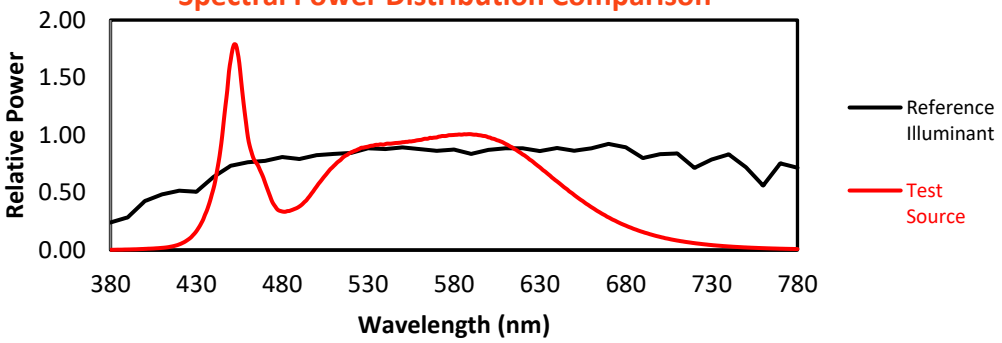
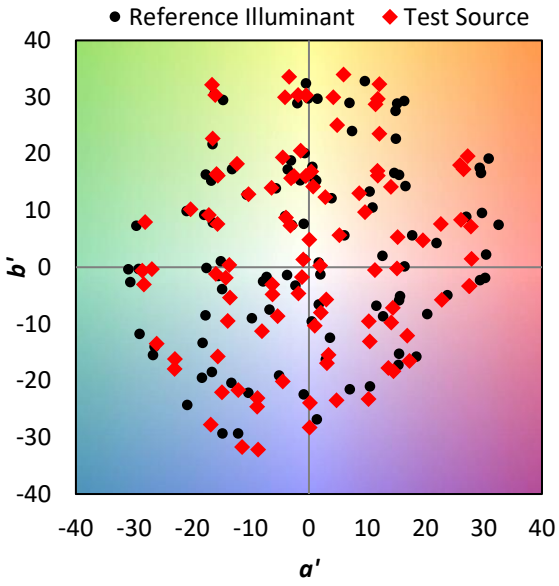
Summary

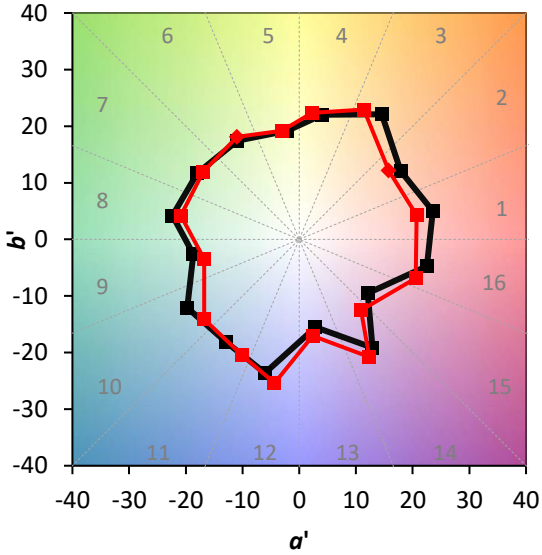
R_f = 83.1
R_g = 95.8
CIE R_a = 82.6
R_9 = 8.5

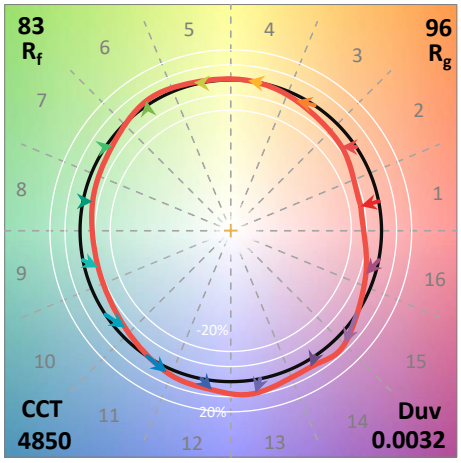
Spectral Power Distribution Comparison

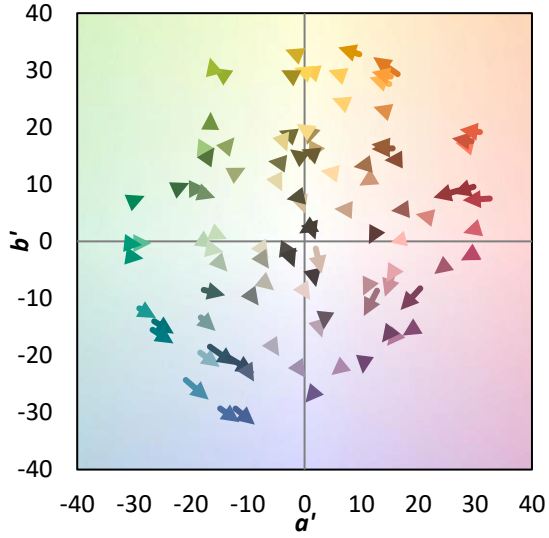


Color Vector Graphics









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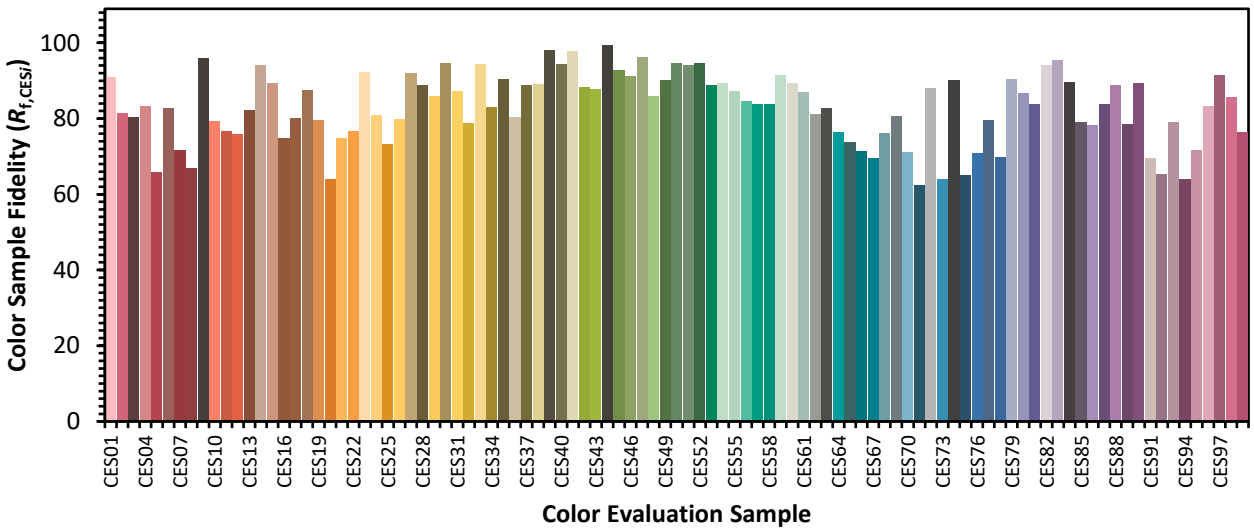
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 80	CES51 = 94	CES76 = 71
CES02 = 60	CES27 = 92	CES52 = 95	CES77 = 80
CES03 = 30	CES28 = 89	CES53 = 89	CES78 = 70
CES04 = 69	CES29 = 86	CES54 = 89	CES79 = 90
CES05 = 47	CES30 = 95	CES55 = 87	CES80 = 87
CES06 = 50	CES31 = 87	CES56 = 85	CES81 = 84
CES07 = 40	CES32 = 79	CES57 = 84	CES82 = 94
CES08 = 39	CES33 = 94	CES58 = 84	CES83 = 95
CES09 = 29	CES34 = 83	CES59 = 91	CES84 = 90
CES10 = 73	CES35 = 90	CES60 = 89	CES85 = 79
CES11 = 56	CES36 = 80	CES61 = 87	CES86 = 78
CES12 = 62	CES37 = 89	CES62 = 81	CES87 = 84
CES13 = 42	CES38 = 89	CES63 = 83	CES88 = 89
CES14 = 74	CES39 = 98	CES64 = 77	CES89 = 79
CES15 = 71	CES40 = 94	CES65 = 74	CES90 = 89
CES16 = 46	CES41 = 98	CES66 = 71	CES91 = 70
CES17 = 49	CES42 = 88	CES67 = 70	CES92 = 65
CES18 = 56	CES43 = 88	CES68 = 76	CES93 = 79
CES19 = 71	CES44 = 99	CES69 = 81	CES94 = 64
CES20 = 64	CES45 = 93	CES70 = 71	CES95 = 72
CES21 = 85	CES46 = 91	CES71 = 62	CES96 = 83
CES22 = 77	CES47 = 96	CES72 = 88	CES97 = 91
CES23 = 91	CES48 = 86	CES73 = 64	CES98 = 86
CES24 = 90	CES49 = 90	CES74 = 90	CES99 = 76
CES25 = 71	CES50 = 95	CES75 = 65	



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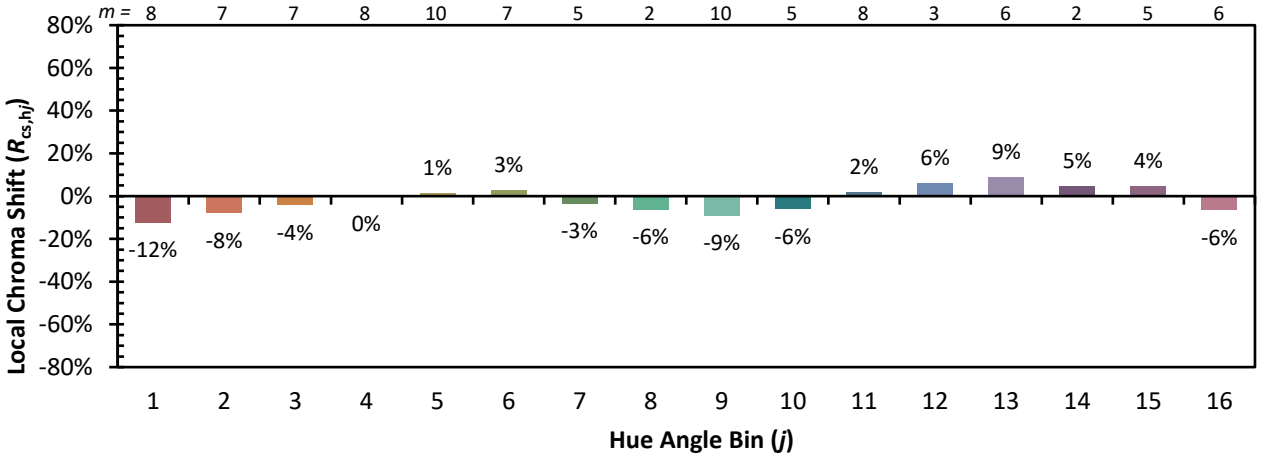
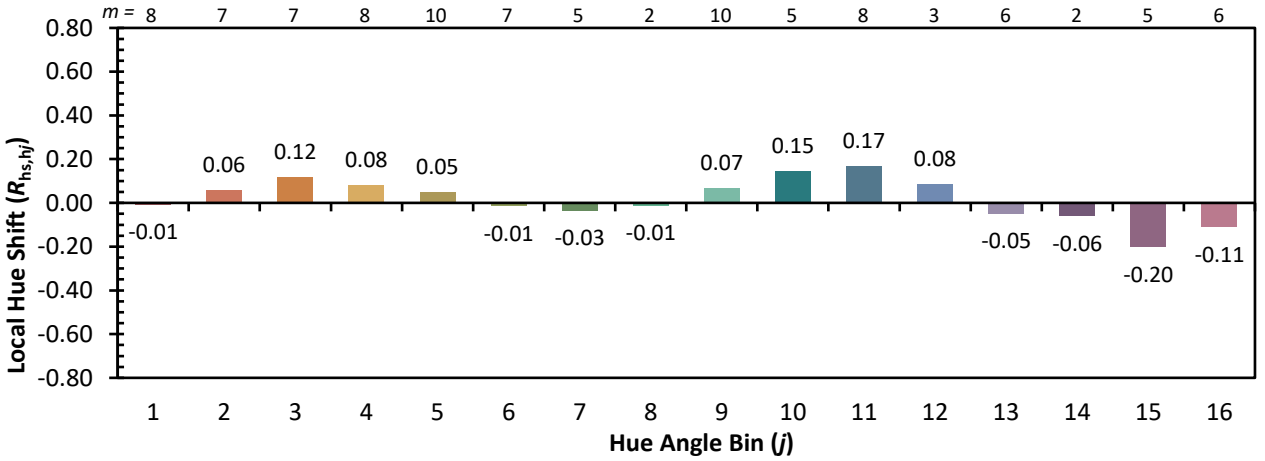
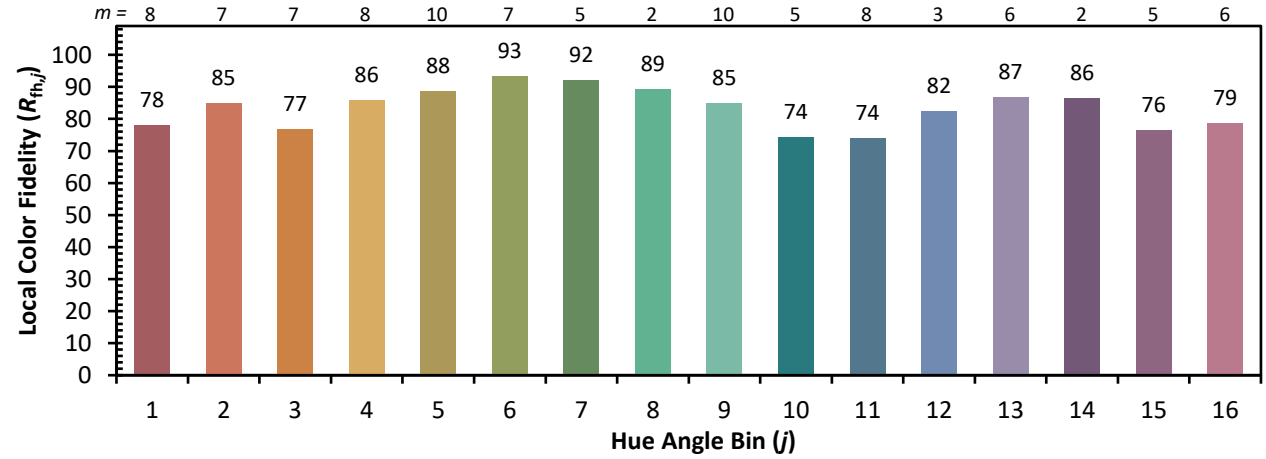
Color Rendition by Hue-Angle Bin







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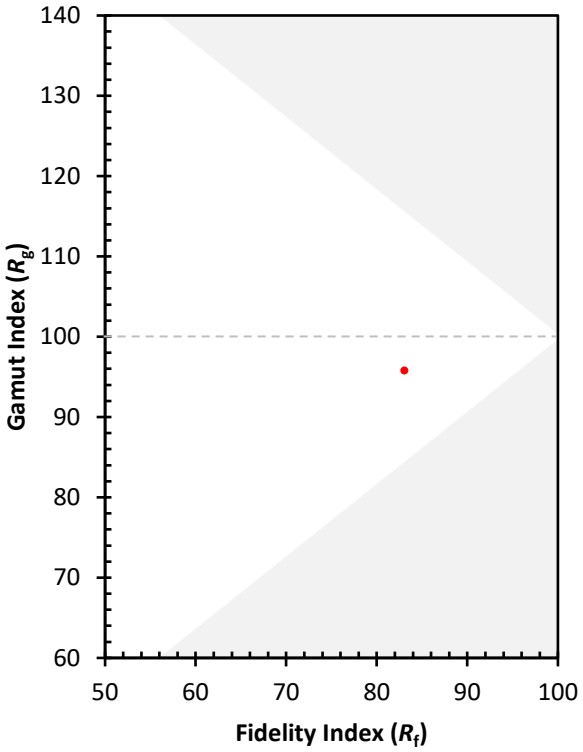
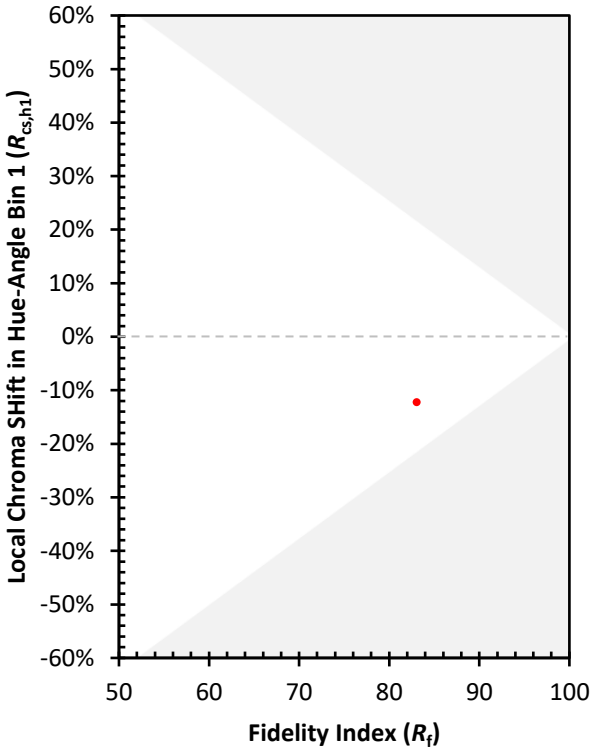
Measure Comparisons





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