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: P1449840

Luminaire Tested: **TWC100_T4_100W_4000K**

Issue Date: 5/19/2026

Report Generated By 670246072

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1449840
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (20260310010)
Test Lab:	INNOVATION CENTER
Issue Date:	5/19/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	LUMARK
Catalog Number:	TWC100_T4_100W_4000K
Description:	Tapered Wall Cutoff Wall Mount Luminaire at, T4 distribution, 100W 4000K settings
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	16027 lumens
Efficiency:	N/A
Efficacy:	166.4 lumens/watt
Luminous Opening:	Rectangular (W 0.92' x L: 0.42' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U3 - G2

Input Watts (W):	96.3
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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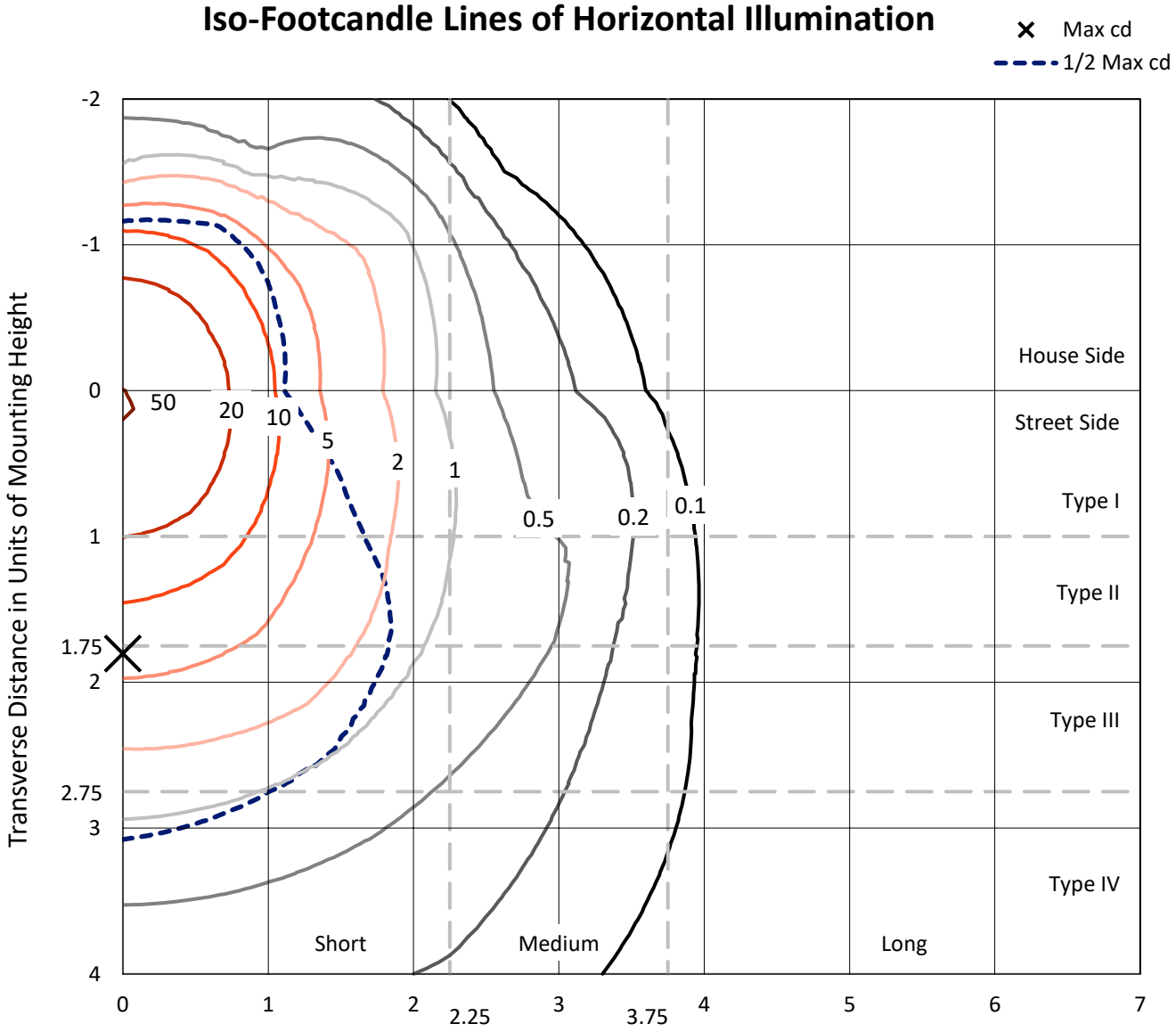
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 51 fc
Type IV - Short - N/A

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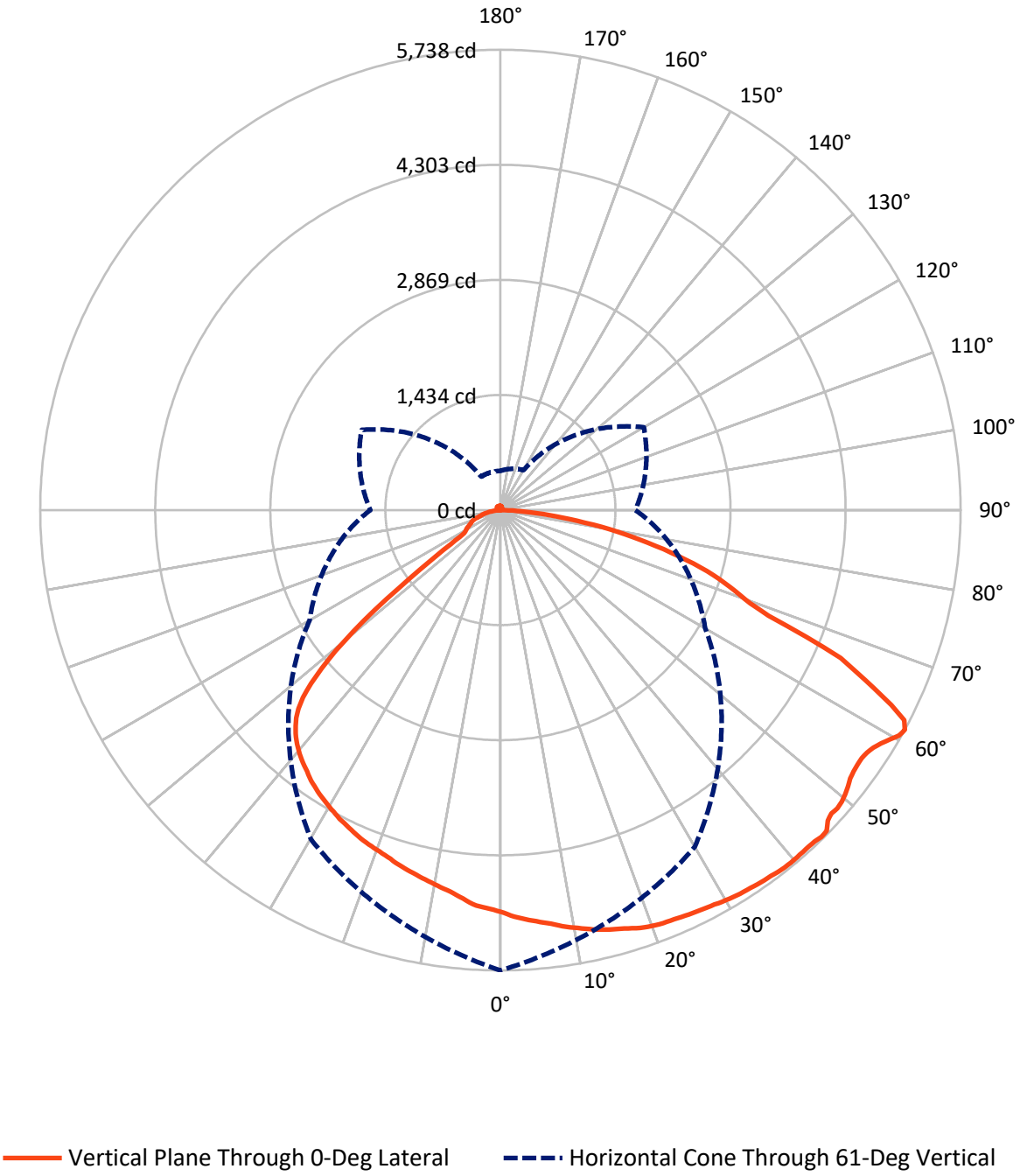
Luminous Intensity Polar Plot



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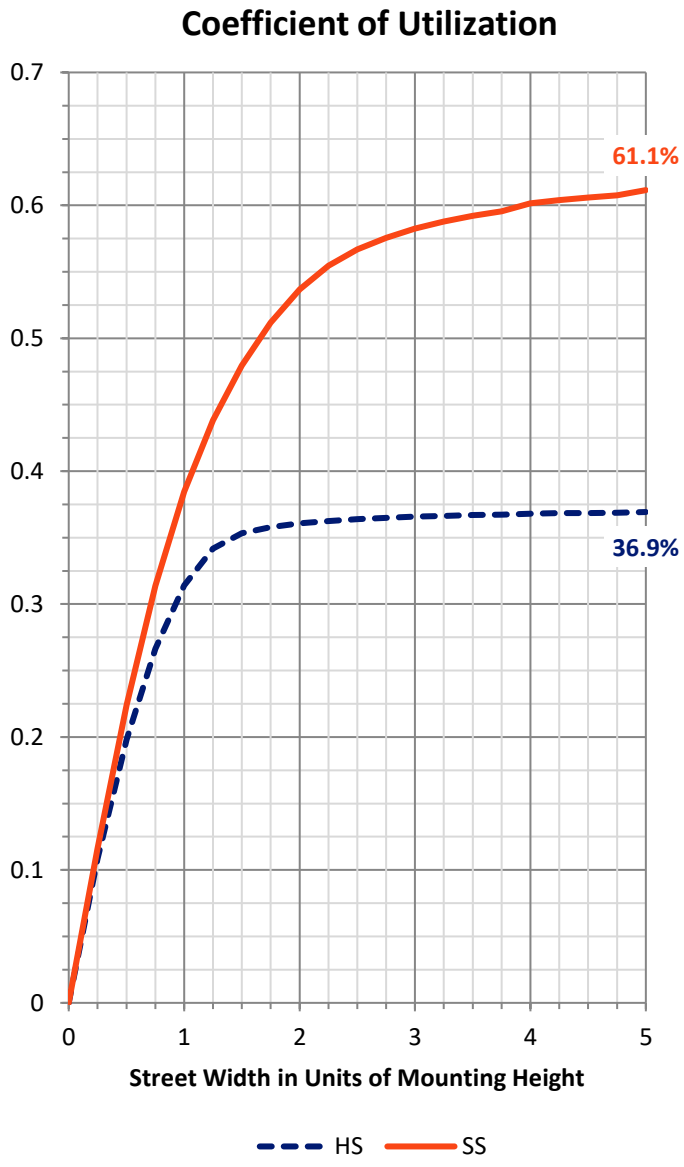
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5961.1	106.4	6067.5
	% Fixture	37.2	0.7	37.9
Street Side	Lumens	9892.9	66.6	9959.5
	% Fixture	61.7	0.4	62.1
Total	Lumens	15854.0	173.0	16027.0
	% Fixture	98.9	1.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.1	3.0
10°-20°	1387.8	8.7
20°-30°	2165.8	13.5
30°-40°	2735.2	17.1
40°-50°	3015.3	18.8
50°-60°	2724.1	17.0
60°-70°	2057.9	12.8
70°-80°	1041.4	6.5
80°-90°	249.4	1.6
90°-100°	9.3	0.1
100°-110°	16.2	0.1
110°-120°	23.2	0.1
120°-130°	27.9	0.2
130°-140°	29.1	0.2
140°-150°	26.8	0.2
150°-160°	21.6	0.1
160°-170°	14.0	0.1
170°-180°	4.9	0.0
0°-90°	15854.0	98.9
0°-180°	16027.0	100.0



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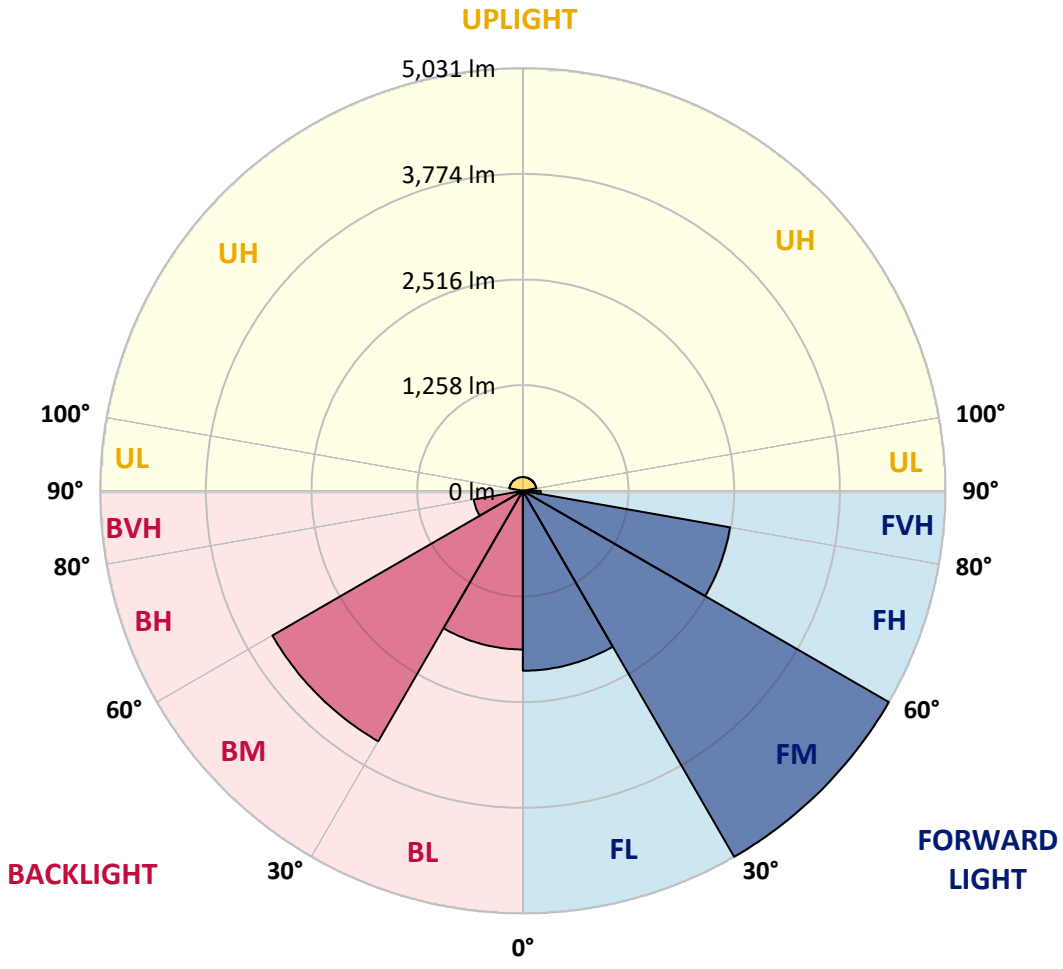
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2141.9	13.4			
FM	(30°-60°)	5031.3	31.4			
FH	(60°-80°)	2505.7	15.6			G2/5000
FVH	(80°-90°)	213.9	1.3			G2/225
BL	(0°-30°)	1888.8	11.8	B3/2500		
BM	(30°-60°)	3443.3	21.5	B3/5000		
BH	(60°-80°)	593.6	3.7	B2/1000		G2/1000
BVH	(80°-90°)	35.4	0.2			G1/100
UL	(90°-100°)	9.3	0.1		U1/10	
UH	(100°-180°)	163.7	1.0		U3/500	

BUG Rating: B3-U3-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	5020.1	5020.1	5020.1	5020.1	5020.1	5020.1	5020.1	5020.1	5020.1	5020.1	5020.1
1°	5058.0	5050.3	5036.0	5019.5	5013.9	4993.7	4994.8	4993.4	5008.1	5015.7	5037.2
2°	5084.2	5072.5	5044.1	5016.7	4991.4	4971.4	4972.1	4971.6	4992.9	5018.2	5039.3
3°	5109.4	5093.0	5054.9	5016.1	4975.9	4955.2	4955.7	4952.3	4966.7	5011.8	5046.5
4°	5134.7	5114.3	5062.9	5009.1	4959.9	4937.0	4939.8	4939.9	4951.4	5002.3	5055.1
5°	5157.6	5131.0	5069.8	5002.6	4941.8	4920.3	4906.9	4918.8	4933.8	4992.0	5057.4
6°	5182.3	5149.8	5079.7	4993.5	4924.0	4898.0	4863.5	4884.5	4916.7	4970.3	5069.4
7°	5210.9	5170.6	5084.2	4981.5	4908.3	4856.3	4830.0	4837.7	4898.9	4956.3	5071.6
8°	5243.9	5195.2	5088.0	4967.2	4889.2	4817.2	4796.4	4805.2	4877.4	4939.0	5072.8
9°	5272.4	5218.0	5090.7	4943.8	4867.7	4781.6	4772.9	4778.3	4853.2	4921.4	5073.4
10°	5298.5	5240.3	5092.8	4927.2	4843.9	4753.9	4748.2	4752.9	4818.8	4903.5	5071.6
11°	5325.5	5258.9	5090.4	4906.7	4815.4	4725.1	4723.6	4719.3	4783.0	4881.1	5066.8
12°	5355.8	5282.1	5085.2	4883.6	4774.8	4699.7	4700.0	4693.6	4747.0	4856.5	5062.3
13°	5377.2	5296.8	5082.1	4866.4	4738.4	4674.3	4678.8	4668.0	4708.6	4825.8	5059.4
14°	5401.9	5309.0	5079.4	4839.4	4698.9	4648.8	4654.5	4649.2	4664.5	4797.3	5046.9
15°	5418.2	5318.9	5073.1	4812.4	4659.9	4623.9	4633.4	4623.0	4626.7	4768.2	5037.6
16°	5440.7	5334.2	5070.7	4773.3	4622.5	4597.8	4610.0	4595.2	4587.8	4736.3	5025.7
17°	5464.5	5348.3	5062.3	4742.4	4583.5	4561.8	4589.2	4567.6	4550.9	4697.4	5017.8
18°	5494.0	5360.4	5050.3	4710.3	4543.0	4533.9	4558.5	4531.8	4515.8	4661.7	5003.1
19°	5510.8	5376.6	5028.8	4676.1	4504.8	4504.8	4537.5	4504.2	4477.4	4625.1	4985.7
20°	5524.0	5384.3	5010.9	4637.7	4458.3	4478.3	4515.1	4478.1	4439.3	4588.5	4953.7
21°	5534.7	5385.7	4990.2	4599.0	4416.9	4453.8	4497.2	4452.1	4387.8	4550.1	4928.0
22°	5538.1	5379.0	4966.7	4559.9	4375.9	4427.3	4480.3	4425.9	4349.1	4508.6	4899.5
23°	5546.7	5373.7	4939.0	4516.0	4330.3	4399.7	4459.5	4399.7	4307.7	4467.1	4871.2
24°	5556.1	5369.3	4912.2	4473.1	4288.9	4365.8	4437.1	4373.9	4266.5	4413.1	4843.7
25°	5567.9	5364.1	4883.0	4426.9	4245.5	4339.6	4411.7	4346.9	4222.8	4367.1	4812.5
26°	5575.2	5360.9	4854.6	4381.2	4202.5	4313.3	4387.9	4317.3	4178.8	4318.2	4777.6
27°	5585.5	5357.2	4822.9	4322.9	4157.3	4285.7	4362.0	4287.9	4136.7	4265.3	4743.5
28°	5594.3	5350.2	4787.3	4270.7	4113.2	4251.7	4340.1	4255.7	4086.6	4211.1	4701.3
29°	5611.7	5343.6	4750.6	4216.0	4067.5	4217.4	4310.6	4217.4	4041.4	4155.0	4662.3
30°	5622.9	5337.5	4702.4	4161.4	4019.7	4184.4	4283.6	4185.0	3993.7	4098.0	4620.8
31°	5633.4	5329.4	4664.0	4104.7	3962.0	4152.5	4256.0	4153.9	3945.9	4035.2	4570.0
32°	5643.4	5324.0	4624.4	4049.4	3913.0	4121.1	4226.1	4121.6	3889.2	3975.5	4528.0
33°	5649.1	5310.7	4584.5	3993.1	3864.2	4089.2	4198.7	4089.6	3841.0	3915.3	4483.6
34°	5659.1	5310.2	4542.8	3935.4	3815.5	4052.4	4166.3	4054.2	3791.2	3844.1	4436.8
35°	5667.3	5306.6	4497.7	3866.8	3762.9	4017.0	4133.0	4018.5	3740.1	3779.2	4390.5
36°	5674.0	5306.1	4449.9	3801.6	3712.9	3971.2	4098.0	3979.4	3685.6	3710.4	4337.6
37°	5687.2	5310.2	4400.3	3732.8	3659.0	3932.5	4053.1	3932.5	3630.0	3638.9	4285.3
38°	5691.7	5302.8	4339.5	3662.2	3601.6	3892.8	4016.6	3891.6	3572.8	3563.0	4232.1
39°	5694.9	5295.8	4286.2	3579.3	3534.9	3852.2	3977.9	3850.8	3515.8	3489.7	4164.0
40°	5693.4	5284.5	4232.1	3503.3	3475.7	3811.7	3935.8	3805.9	3451.8	3413.6	4106.6
41°	5690.2	5267.8	4178.8	3427.1	3419.1	3769.2	3888.2	3762.2	3394.5	3336.8	4047.8
42°	5688.6	5254.3	4118.1	3347.5	3357.3	3725.4	3836.1	3716.3	3337.2	3262.5	3987.8
43°	5694.0	5240.2	4063.3	3271.8	3299.3	3680.4	3778.5	3670.5	3279.6	3176.0	3926.6
44°	5711.0	5226.2	4008.8	3192.2	3241.3	3625.6	3708.7	3616.6	3217.9	3101.5	3870.0

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REPORT NUMBER: P1449840
CATALOG NUMBER: TWC100_T4_100W_4000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	5703.4	5215.9	3956.7	3112.4	3182.4	3577.0	3634.2	3561.6	3157.9	3024.1	3810.9
46°	5625.8	5210.5	3903.5	3020.0	3120.7	3524.5	3530.5	3499.6	3100.2	2938.7	3756.0
47°	5596.5	5209.5	3852.3	2938.8	3060.6	3457.7	3395.0	3431.8	3034.9	2858.3	3696.6
48°	5611.1	5172.8	3800.3	2857.1	2999.4	3390.5	3202.0	3349.1	2976.0	2778.0	3642.3
49°	5598.4	5078.2	3748.4	2775.3	2939.3	3318.7	2976.0	3264.9	2915.8	2699.9	3587.3
50°	5569.8	5052.5	3685.1	2688.8	2877.0	3239.4	2701.6	3152.6	2855.5	2611.5	3524.0
51°	5537.3	5049.7	3632.3	2605.6	2805.1	3128.3	2370.0	3007.4	2792.9	2525.6	3467.2
52°	5495.8	5005.7	3575.9	2522.7	2743.7	2991.2	2006.2	2813.3	2721.6	2443.4	3410.0
53°	5477.3	4956.5	3515.2	2436.3	2682.9	2821.3	1593.6	2587.2	2658.6	2358.2	3347.3
54°	5467.4	4905.5	3455.8	2339.9	2616.9	2607.7	1253.1	2310.2	2593.8	2261.7	3279.7
55°	5464.1	4863.6	3403.4	2253.7	2552.4	2312.6	972.0	1984.5	2525.5	2175.2	3221.2
56°	5481.0	4835.8	3351.7	2165.2	2486.1	1997.2	748.8	1590.2	2450.7	2086.9	3164.7
57°	5513.1	4812.8	3299.0	2064.0	2407.3	1648.8	607.4	1245.5	2375.2	1997.2	3110.1
58°	5565.9	4802.5	3228.2	1969.0	2333.1	1265.6	533.6	952.1	2293.1	1898.9	3040.6
59°	5634.8	4796.1	3109.3	1876.0	2252.7	962.1	512.5	729.2	2195.9	1803.8	2931.1
60°	5710.6	4804.3	3015.8	1782.5	2167.0	732.4	499.6	563.0	2100.4	1710.3	2823.9
61°	5737.8	4847.2	2947.6	1682.4	2064.5	574.9	488.5	481.1	1997.4	1622.0	2746.2
62°	5674.4	4921.2	2856.1	1594.9	1961.5	473.8	474.4	455.4	1891.9	1525.8	2651.4
63°	5446.2	5014.4	2741.1	1512.0	1853.6	446.2	456.7	440.2	1763.3	1444.5	2533.6
64°	5159.9	5050.3	2613.4	1428.0	1743.2	430.6	439.6	427.0	1615.5	1365.5	2407.6
65°	4885.7	4921.0	2497.4	1335.0	1606.7	416.3	425.2	410.5	1435.2	1286.5	2282.5
66°	4624.9	4626.2	2379.0	1251.9	1450.3	398.9	410.0	392.4	1211.6	1199.3	2147.0
67°	4122.8	4277.6	2248.3	1170.6	1259.9	381.0	396.7	372.6	919.6	1117.7	2024.9
68°	3591.3	3966.0	2148.7	1078.4	990.9	362.7	386.2	354.9	661.9	1033.2	1912.2
69°	3326.5	3454.4	2068.0	991.3	721.6	343.0	375.5	337.3	463.9	939.6	1804.9
70°	3164.6	3014.1	2013.1	901.5	503.8	325.0	361.2	321.7	346.8	853.0	1727.8
71°	3016.0	2808.6	2021.2	803.2	357.0	310.2	342.5	308.8	301.0	766.9	1691.5
72°	2860.0	2686.5	2341.0	716.3	304.9	297.4	316.4	293.9	283.1	682.9	1833.7
73°	2689.7	2564.6	2725.2	634.4	283.8	280.6	292.0	276.0	264.3	593.2	2392.6
74°	2492.5	2436.2	2109.5	557.8	263.9	262.1	268.2	259.0	244.0	516.4	2024.3
75°	2292.1	2307.6	1343.0	478.6	242.0	244.8	245.7	236.2	227.5	444.4	1223.7
76°	2091.6	2161.0	1117.7	411.1	223.8	222.7	230.9	214.2	210.8	378.8	956.7
77°	1879.8	2001.5	991.4	350.4	205.8	201.3	217.5	190.5	194.3	320.7	834.7
78°	1683.4	1847.8	986.5	293.6	188.6	177.0	203.8	168.4	178.4	264.7	808.9
79°	1481.3	1722.8	979.4	239.5	169.9	156.1	178.4	153.1	162.7	218.2	861.8
80°	1282.2	1594.9	761.7	195.8	154.6	140.0	158.5	139.2	148.1	176.2	632.0
81°	1064.9	1433.7	512.5	158.5	139.9	126.0	141.1	124.7	130.0	138.9	412.3
82°	873.0	1238.5	428.2	124.2	119.5	112.2	117.0	108.2	111.6	104.1	343.1
83°	694.8	1031.4	377.8	91.6	100.8	95.1	90.1	93.4	91.2	80.0	307.4
84°	538.2	890.4	331.1	68.4	81.5	79.5	67.4	78.2	74.0	61.2	270.6
85°	379.3	753.9	282.5	50.4	64.4	64.6	54.7	58.8	57.1	45.0	231.0
86°	256.8	543.5	235.3	35.0	47.3	46.2	35.0	41.9	45.3	30.6	184.2
87°	152.1	371.2	167.2	21.4	34.4	28.2	22.4	27.2	31.6	20.0	128.2
88°	51.0	142.3	67.3	11.1	20.5	15.6	16.9	18.0	19.4	11.5	41.1
89°	4.2	2.9	3.9	4.5	9.0	8.9	14.5	14.7	10.6	6.1	4.7

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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°	1.5	1.4	1.6	2.0	4.2	6.3	15.2	14.7	9.9	4.9	4.3
91°	1.4	1.4	1.9	2.5	4.5	6.6	16.7	16.1	10.5	5.4	4.8
92°	1.6	1.6	1.9	2.1	5.3	7.5	18.2	17.1	11.4	5.9	5.1
93°	1.9	1.8	2.1	2.7	5.6	8.3	19.5	18.3	12.3	6.3	5.6
94°	1.9	1.8	2.4	2.9	6.1	9.1	20.7	19.6	13.0	6.7	5.8
95°	1.9	1.9	2.8	3.3	6.7	10.2	22.3	20.7	13.8	7.3	6.4
96°	1.8	1.8	2.8	3.5	7.1	10.9	23.9	22.1	14.5	8.1	7.0
97°	2.3	2.0	3.2	4.0	7.8	12.1	25.4	23.1	15.7	8.6	7.6
98°	2.1	2.1	3.4	4.3	8.6	13.0	26.6	24.4	16.6	9.2	8.1
99°	2.3	2.4	3.9	4.7	9.1	14.0	28.0	25.7	17.2	9.9	8.9
100°	2.3	2.5	4.2	4.9	10.0	14.8	29.5	26.9	18.5	10.6	9.4
101°	2.5	2.9	4.7	5.6	10.4	15.8	30.9	28.2	19.4	11.4	10.0
102°	2.7	3.2	4.9	6.1	11.3	16.9	32.1	29.2	20.4	12.0	10.5
103°	2.8	3.4	5.3	6.8	11.9	17.7	33.6	30.5	21.1	12.9	11.4
104°	3.2	3.7	5.9	7.1	12.8	18.8	34.7	31.5	22.1	13.7	12.0
105°	3.5	3.9	6.4	7.6	13.5	20.1	35.9	32.8	23.1	14.3	12.9
106°	3.5	4.7	6.8	8.2	14.3	20.9	37.4	33.9	23.8	15.2	13.5
107°	3.9	4.9	7.3	8.9	14.9	22.1	38.7	35.3	24.8	15.8	14.3
108°	4.5	5.6	8.2	9.5	15.9	23.4	39.7	36.4	25.4	16.7	14.9
109°	4.9	6.1	8.6	10.1	16.6	24.4	40.9	37.4	26.6	17.7	16.1
110°	5.3	6.8	9.6	10.7	17.3	25.6	42.1	38.7	27.5	18.5	16.8
111°	5.8	7.5	10.1	11.4	18.2	26.7	43.1	39.7	28.6	19.5	17.5
112°	6.7	8.0	10.5	12.0	18.8	27.7	44.7	40.5	29.3	20.0	18.3
113°	7.2	8.6	11.3	12.6	19.7	28.5	45.2	41.4	30.1	21.3	19.4
114°	7.7	9.5	11.9	13.4	20.7	29.5	46.0	42.3	31.0	21.8	19.9
115°	8.2	10.1	12.4	14.3	21.6	30.6	47.2	43.0	31.9	22.8	20.7
116°	9.1	10.9	13.3	14.7	22.4	31.5	47.9	43.8	32.9	23.8	21.6
117°	10.0	11.5	13.9	15.6	23.3	32.5	48.6	44.7	33.8	24.5	22.1
118°	10.5	12.3	14.5	16.4	24.0	33.3	49.3	44.9	34.2	25.2	23.3
119°	11.6	13.2	15.2	17.1	24.9	33.8	50.0	45.4	35.2	26.2	24.0
120°	12.5	14.0	15.9	18.0	25.6	35.0	50.5	46.3	35.9	27.1	24.8
121°	13.3	15.1	16.6	18.7	26.6	35.9	50.9	46.8	36.6	28.0	25.7
122°	14.3	15.7	17.3	19.5	27.5	36.4	51.1	47.4	37.4	28.6	26.3
123°	15.1	16.7	18.2	20.0	28.3	37.6	51.6	47.9	38.0	29.5	27.2
124°	16.3	17.5	18.8	20.7	29.1	38.5	52.2	48.5	38.6	30.4	28.0
125°	17.3	18.5	19.6	21.8	30.0	39.1	52.6	49.0	39.3	31.0	29.0
126°	18.2	19.4	20.4	22.6	30.7	39.8	52.9	49.2	40.0	31.9	29.7
127°	19.1	20.0	21.1	23.4	31.4	40.6	53.1	49.6	40.6	32.5	30.6
128°	19.7	20.9	22.0	24.0	32.3	41.4	53.4	50.1	41.2	33.3	31.2
129°	21.0	21.5	22.8	24.8	32.9	42.0	53.6	50.4	41.7	34.0	32.1
130°	21.9	22.3	23.5	25.4	33.6	42.8	53.9	50.6	42.3	34.5	32.9
131°	22.5	22.9	24.2	26.3	34.3	43.5	53.9	51.1	42.9	35.5	33.4
132°	23.4	23.8	25.0	27.1	35.0	44.0	54.1	51.5	43.1	36.1	33.9
133°	24.2	24.7	25.6	28.1	35.8	44.7	54.4	51.7	43.5	36.9	34.7
134°	25.0	25.4	26.4	28.6	36.7	45.5	54.5	51.9	44.2	37.6	35.7

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

Scaled Data Report

REPORT NUMBER: P1449840
CATALOG NUMBER: TWC100_T4_100W_4000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
135°	25.7	26.2	27.2	29.5	37.2	46.2	54.9	52.0	44.8	38.2	36.4
136°	26.4	26.9	28.1	30.1	37.8	46.7	54.9	52.4	45.0	38.7	36.8
137°	27.2	27.6	28.7	31.0	38.3	47.3	54.8	52.6	45.5	39.3	37.6
138°	28.0	28.6	29.6	31.6	38.6	47.6	54.8	52.4	45.8	40.1	38.2
139°	28.6	29.1	30.2	32.6	39.3	47.9	54.9	52.6	46.2	40.7	38.6
140°	29.2	29.9	31.1	33.3	39.8	48.3	55.0	52.9	46.6	41.2	39.3
141°	30.0	30.7	31.8	33.6	40.4	48.6	54.7	52.9	47.1	41.9	39.8
142°	30.7	31.0	32.8	34.4	40.9	49.2	54.8	52.8	47.4	42.3	40.4
143°	31.2	32.1	33.6	35.2	41.5	49.3	54.8	52.9	47.6	42.8	40.7
144°	32.0	32.6	33.9	35.8	42.3	49.6	54.7	52.9	48.1	43.5	41.4
145°	33.1	33.8	34.9	36.4	42.3	49.6	54.5	52.9	48.5	43.6	41.9
146°	33.8	34.7	35.5	36.9	42.9	49.8	54.7	53.3	48.7	44.4	42.5
147°	34.7	35.2	36.3	37.4	43.4	50.1	54.5	53.0	49.1	45.0	43.3
148°	35.7	36.4	36.7	38.3	43.9	50.1	54.4	53.0	49.5	45.3	43.6
149°	36.6	36.7	37.6	39.0	44.4	50.2	54.7	53.4	49.6	45.7	43.9
150°	37.4	37.6	38.1	39.5	44.9	50.7	54.4	53.5	50.0	46.3	44.4
151°	38.2	38.5	38.7	40.1	45.3	50.7	54.5	53.5	50.2	46.8	44.9
152°	39.2	39.1	39.2	40.7	45.8	51.1	54.3	53.4	50.4	47.2	45.5
153°	39.6	39.7	39.6	41.2	45.9	51.0	54.0	53.4	50.9	47.7	45.8
154°	40.5	40.5	40.5	41.7	46.4	51.1	54.1	53.5	50.9	47.7	46.0
155°	41.2	40.7	41.1	42.4	46.7	51.4	54.1	53.4	51.2	48.3	46.4
156°	42.0	41.5	41.6	42.9	47.2	51.5	53.8	53.4	51.4	48.6	46.8
157°	42.3	41.9	42.1	43.4	47.4	51.7	53.5	53.3	51.2	48.8	47.3
158°	42.8	42.4	42.5	44.0	48.1	52.0	53.5	53.3	51.4	49.2	47.7
159°	43.3	42.8	43.1	44.5	48.3	52.0	53.4	53.1	51.6	49.6	48.1
160°	43.8	43.1	43.4	44.8	48.8	52.0	53.3	53.3	51.7	49.7	48.3
161°	44.3	43.6	43.9	45.4	49.0	52.2	53.0	52.9	51.9	50.1	48.6
162°	44.7	44.0	44.7	45.8	49.3	52.2	52.8	53.0	52.0	50.1	49.0
163°	44.8	44.4	44.8	46.4	49.6	52.4	52.8	53.0	51.9	50.5	49.2
164°	45.3	44.5	45.2	46.9	50.1	52.4	52.8	52.8	52.1	50.6	49.6
165°	45.8	45.5	45.9	47.2	50.4	52.8	52.5	52.8	52.1	50.9	49.8
166°	46.0	45.7	46.3	47.6	50.4	52.6	52.5	52.6	52.2	51.0	50.0
167°	46.4	46.4	46.7	48.1	50.7	52.8	52.4	52.8	52.2	51.1	50.2
168°	46.7	46.7	47.3	48.2	51.0	52.8	52.2	52.5	52.2	51.4	50.7
169°	47.2	47.2	47.7	48.8	51.4	52.9	52.4	52.5	52.2	51.6	50.7
170°	47.4	47.3	48.1	49.3	51.4	52.8	52.2	52.6	52.5	51.9	51.1
171°	47.9	47.8	48.6	49.7	51.6	52.9	52.6	52.5	52.2	52.0	51.2
172°	48.6	48.2	48.8	50.1	51.7	52.8	52.2	52.4	52.2	52.2	51.4
173°	49.1	48.6	49.1	50.6	51.9	52.6	52.6	52.8	52.2	52.4	51.6
174°	49.5	49.0	49.6	50.9	52.0	52.9	52.5	52.5	52.1	52.6	52.0
175°	50.0	49.3	50.4	51.0	52.5	52.9	52.4	52.0	52.2	52.5	52.1
176°	50.5	50.0	50.2	51.6	52.5	53.1	52.4	52.2	52.1	52.4	52.4
177°	50.7	50.2	50.9	51.9	52.5	53.0	52.2	51.9	52.0	52.5	52.5
178°	51.1	50.7	51.0	51.9	52.9	53.0	52.1	51.6	52.1	52.6	52.5
179°	51.4	51.0	51.4	52.1	52.8	52.8	52.1	51.7	52.0	52.8	52.5

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

Scaled Data Report

REPORT NUMBER: P1449840
CATALOG NUMBER: TWC100_T4_100W_4000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
180°	*52.1*	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1

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Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1449840
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CANDELA DISTRIBUTION (continued):

	330°	360°
0°	5020.1	5020.1
1°	5045.6	5058.0
2°	5066.1	5084.2
3°	5088.0	5109.4
4°	5107.1	5134.7
5°	5126.1	5157.6
6°	5147.1	5182.3
7°	5166.8	5210.9
8°	5187.1	5243.9
9°	5207.5	5272.4
10°	5225.0	5298.5
11°	5242.9	5325.5
12°	5266.2	5355.8
13°	5278.7	5377.2
14°	5292.3	5401.9
15°	5295.1	5418.2
16°	5307.8	5440.7
17°	5321.6	5464.5
18°	5328.1	5494.0
19°	5339.7	5510.8
20°	5343.8	5524.0
21°	5341.6	5534.7
22°	5336.0	5538.1
23°	5330.0	5546.7
24°	5322.8	5556.1
25°	5316.8	5567.9
26°	5307.0	5575.2
27°	5298.5	5585.5
28°	5290.6	5594.3
29°	5279.2	5611.7
30°	5278.2	5622.9
31°	5269.4	5633.4
32°	5262.4	5643.4
33°	5255.8	5649.1
34°	5243.1	5659.1
35°	5239.7	5667.3
36°	5236.7	5674.0
37°	5234.8	5687.2
38°	5223.7	5691.7
39°	5215.0	5694.9
40°	5201.9	5693.4
41°	5186.6	5690.2
42°	5170.8	5688.6
43°	5155.6	5694.0
44°	5139.5	5711.0

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1449840
CATALOG NUMBER: TWC100_T4_100W_4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	5122.1	5703.4
46°	5116.5	5625.8
47°	5107.1	5596.5
48°	5039.2	5611.1
49°	4964.1	5598.4
50°	4952.5	5569.8
51°	4935.6	5537.3
52°	4896.1	5495.8
53°	4833.2	5477.3
54°	4782.1	5467.4
55°	4738.2	5464.1
56°	4704.6	5481.0
57°	4680.7	5513.1
58°	4668.7	5565.9
59°	4658.9	5634.8
60°	4675.4	5710.6
61°	*4731.8*	*5737.8*
62°	4813.6	5674.4
63°	4890.9	5446.2
64°	4879.7	5159.9
65°	4660.8	4885.7
66°	4340.0	4624.9
67°	4046.1	4122.8
68°	3642.9	3591.3
69°	3106.9	3326.5
70°	2808.7	3164.6
71°	2668.4	3016.0
72°	2530.4	2860.0
73°	2409.5	2689.7
74°	2286.5	2492.5
75°	2153.9	2292.1
76°	1981.5	2091.6
77°	1833.4	1879.8
78°	1706.1	1683.4
79°	1585.1	1481.3
80°	1445.6	1282.2
81°	1298.1	1064.9
82°	1091.1	873.0
83°	909.6	694.8
84°	772.7	538.2
85°	589.9	379.3
86°	444.0	256.8
87°	244.8	152.1
88°	14.3	51.0
89°	2.3	4.2

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

REPORT NUMBER: P1449840
CATALOG NUMBER: TWC100_T4_100W_4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
90°	2.5	1.5
91°	2.7	1.4
92°	2.8	1.6
93°	3.3	1.9
94°	3.3	1.9
95°	3.8	1.9
96°	4.4	1.8
97°	4.5	2.3
98°	5.2	2.1
99°	5.8	2.3
100°	6.3	2.3
101°	7.0	2.5
102°	7.7	2.7
103°	8.5	2.8
104°	9.1	3.2
105°	9.7	3.5
106°	10.5	3.5
107°	11.5	3.9
108°	12.1	4.5
109°	12.9	4.9
110°	13.9	5.3
111°	14.8	5.8
112°	15.6	6.7
113°	16.7	7.2
114°	17.6	7.7
115°	18.7	8.2
116°	19.6	9.1
117°	20.6	10.0
118°	21.4	10.5
119°	22.4	11.6
120°	23.5	12.5
121°	24.5	13.3
122°	25.4	14.3
123°	26.3	15.1
124°	27.3	16.3
125°	28.2	17.3
126°	29.0	18.2
127°	29.7	19.1
128°	30.6	19.7
129°	31.2	21.0
130°	32.1	21.9
131°	32.9	22.5
132°	33.8	23.4
133°	34.0	24.2
134°	34.9	25.0

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Scaled Data Report

REPORT NUMBER: P1449840
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CANDELA DISTRIBUTION (continued):

	330°	360°
135°	35.7	25.7
136°	36.2	26.4
137°	36.7	27.2
138°	37.6	28.0
139°	38.2	28.6
140°	39.0	29.2
141°	39.2	30.0
142°	39.8	30.7
143°	40.4	31.2
144°	41.1	32.0
145°	41.6	33.1
146°	42.0	33.8
147°	42.3	34.7
148°	42.8	35.7
149°	43.1	36.6
150°	43.8	37.4
151°	44.0	38.2
152°	44.5	39.2
153°	44.8	39.6
154°	45.0	40.5
155°	45.4	41.2
156°	45.7	42.0
157°	46.0	42.3
158°	46.4	42.8
159°	46.7	43.3
160°	47.1	43.8
161°	47.1	44.3
162°	47.6	44.7
163°	47.9	44.8
164°	48.2	45.3
165°	48.6	45.8
166°	48.8	46.0
167°	49.0	46.4
168°	49.3	46.7
169°	49.7	47.2
170°	49.8	47.4
171°	50.5	47.9
172°	50.5	48.6
173°	50.9	49.1
174°	51.4	49.5
175°	51.5	50.0
176°	51.7	50.5
177°	52.1	50.7
178°	52.6	51.1
179°	52.8	51.4

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

REPORT NUMBER: P1449840
CATALOG NUMBER: TWC100_T4_100W_4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
180°	52.1	52.1

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

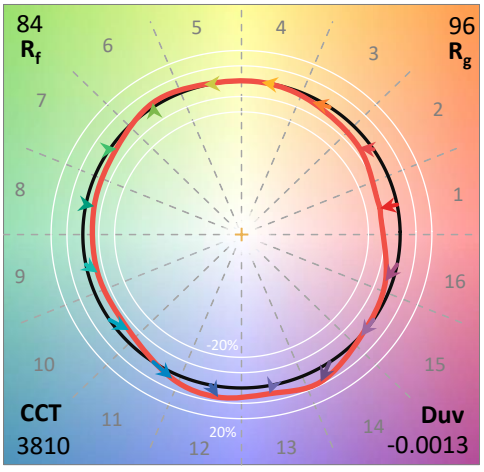
Test Information

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

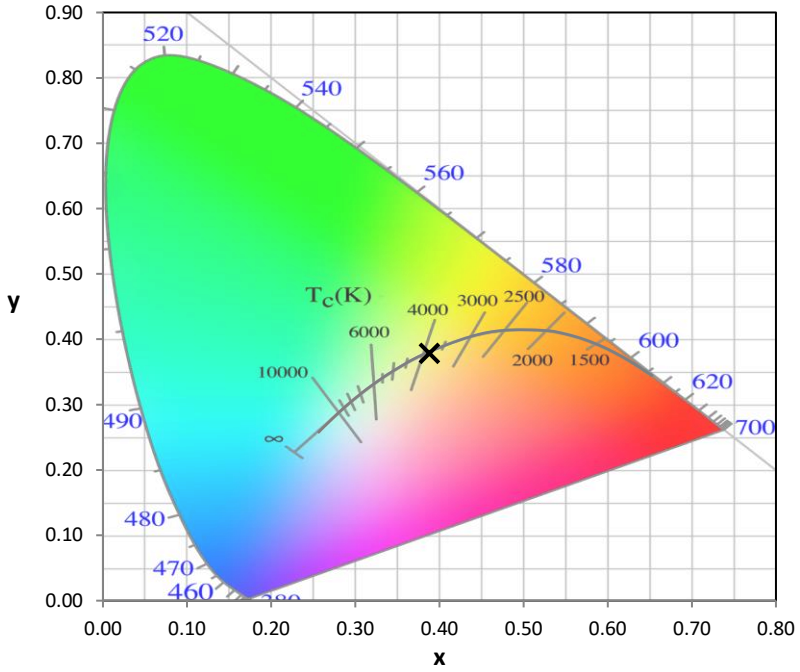
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2601-659-2

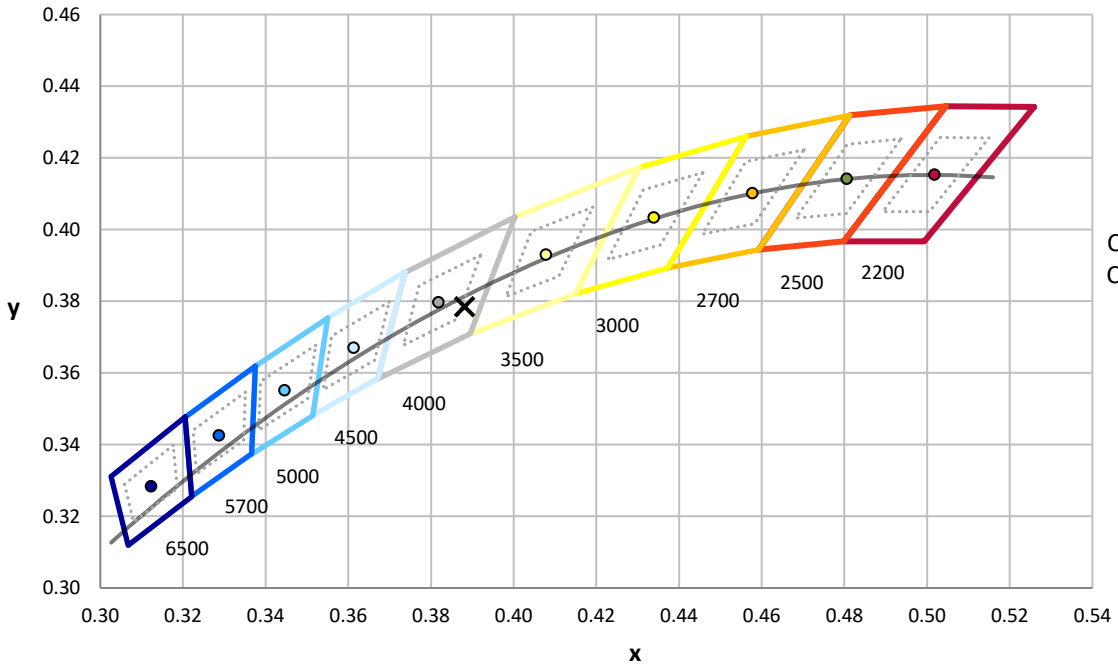
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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

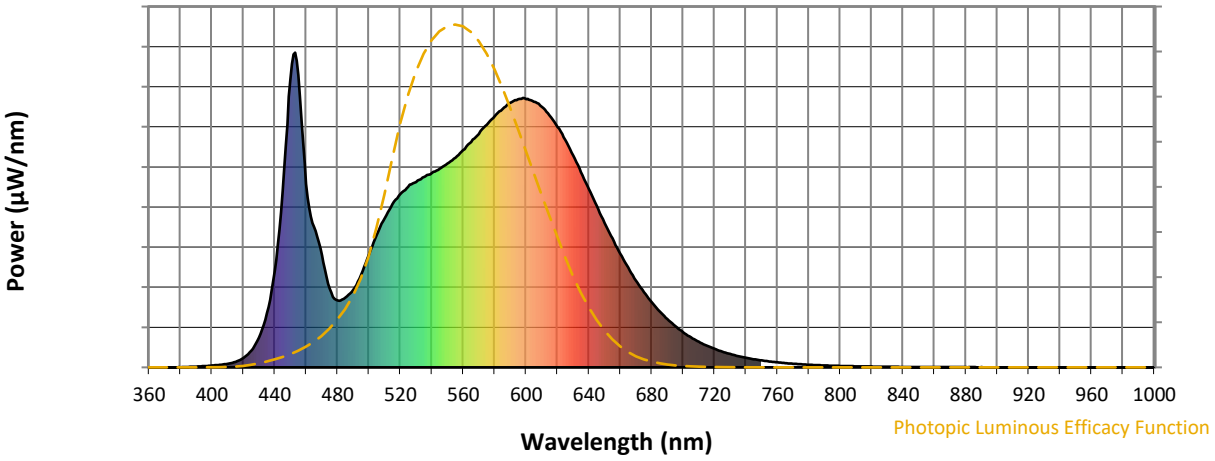


CCT = 3810K
CIE x = 0.3881
CIE y = 0.3785
Duv = -0.0013

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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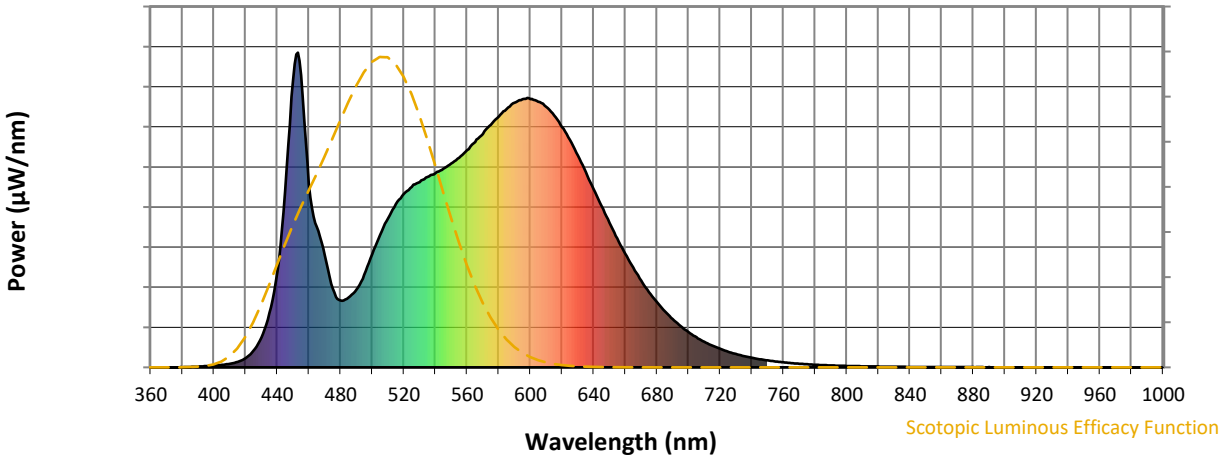
Scotopic Flux vs. Wavelength



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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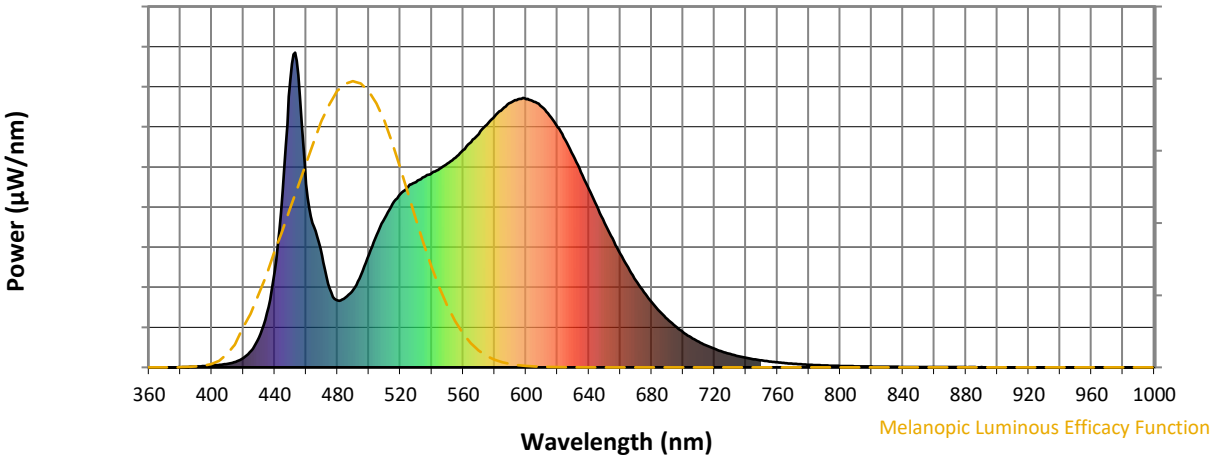
Melanopic Flux vs. Wavelength



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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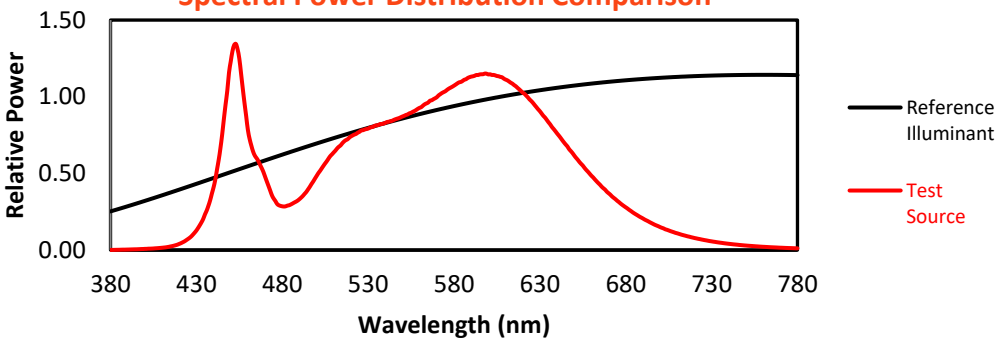
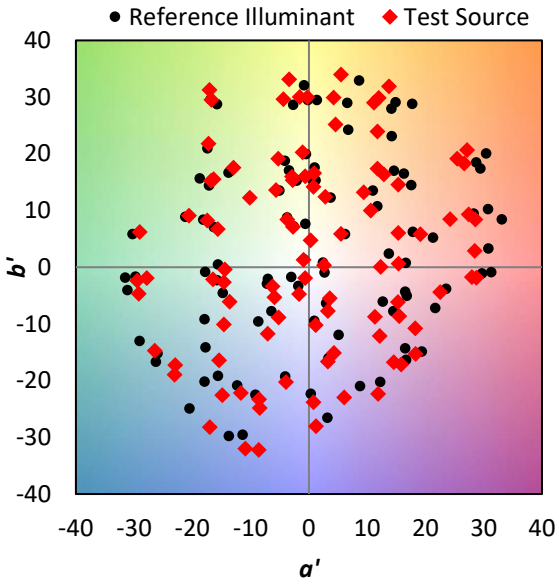
Summary

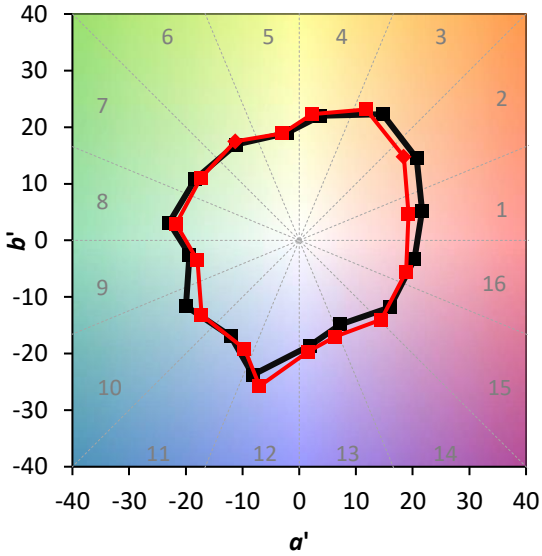
R_f = 84.4
R_g = 96.5
CIE R_a = 84.5
R_9 = 15.9

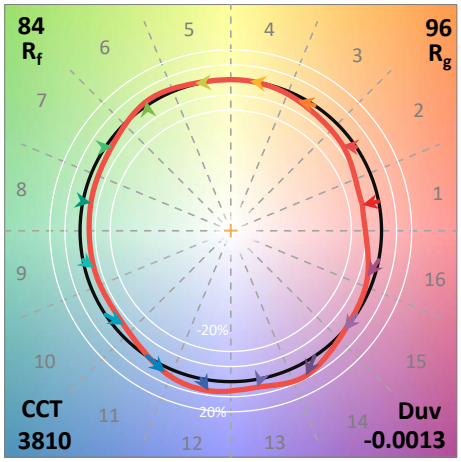
Spectral Power Distribution Comparison

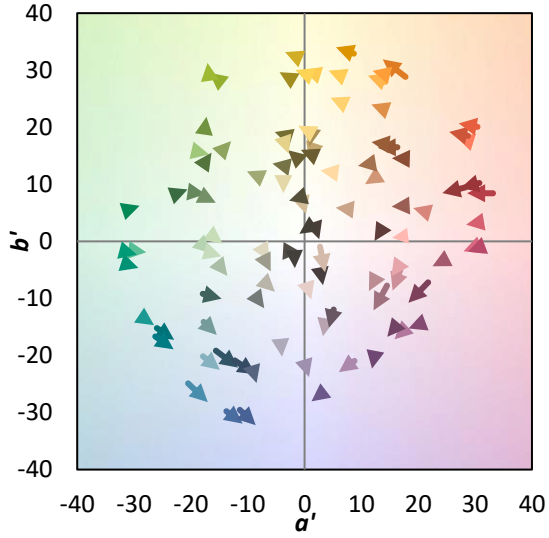


Color Vector Graphics









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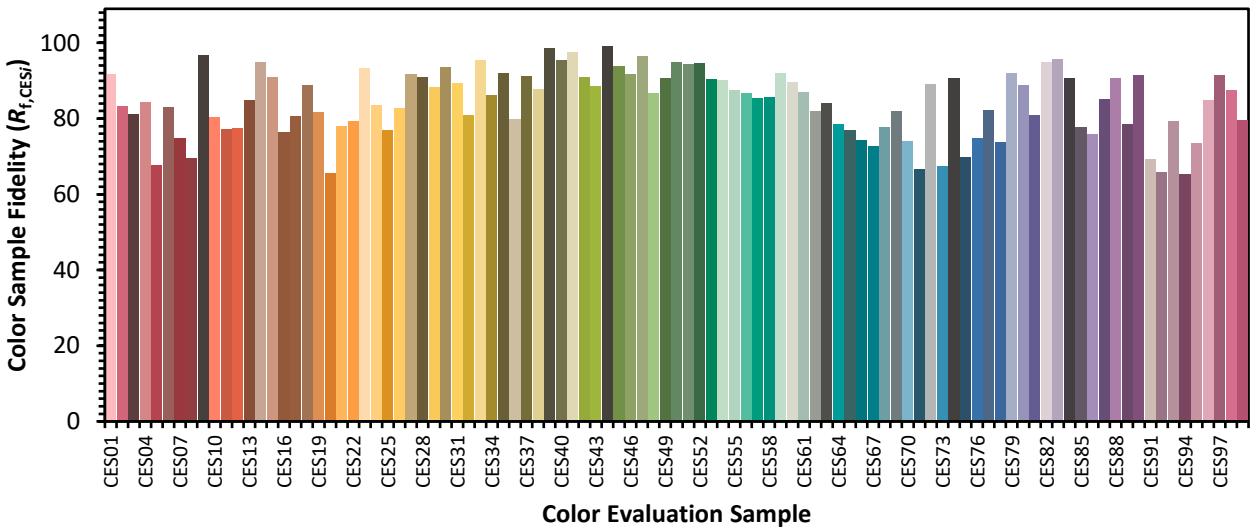
Individual Sample Fidelity Index ($R_{f,i}$)

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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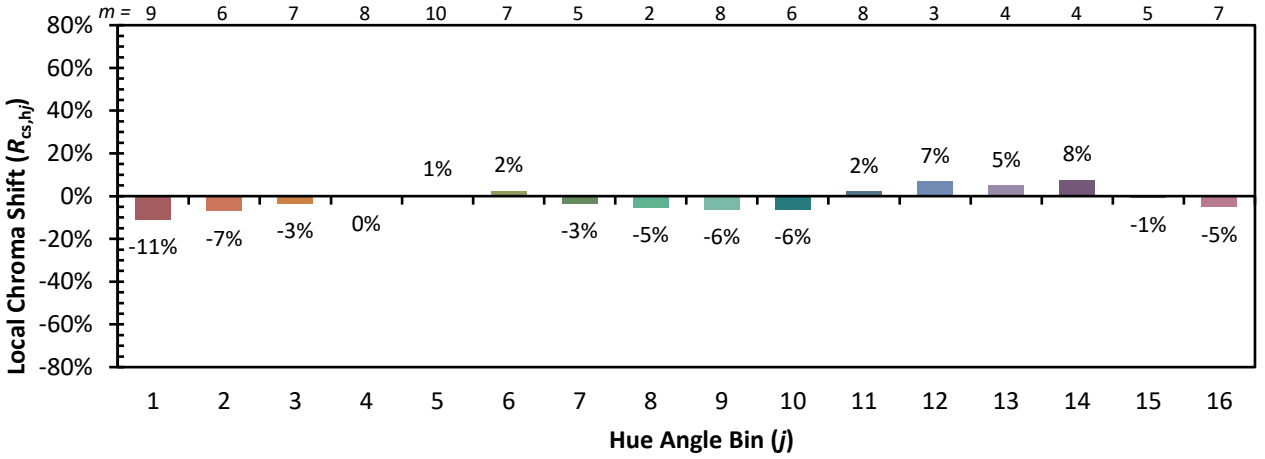
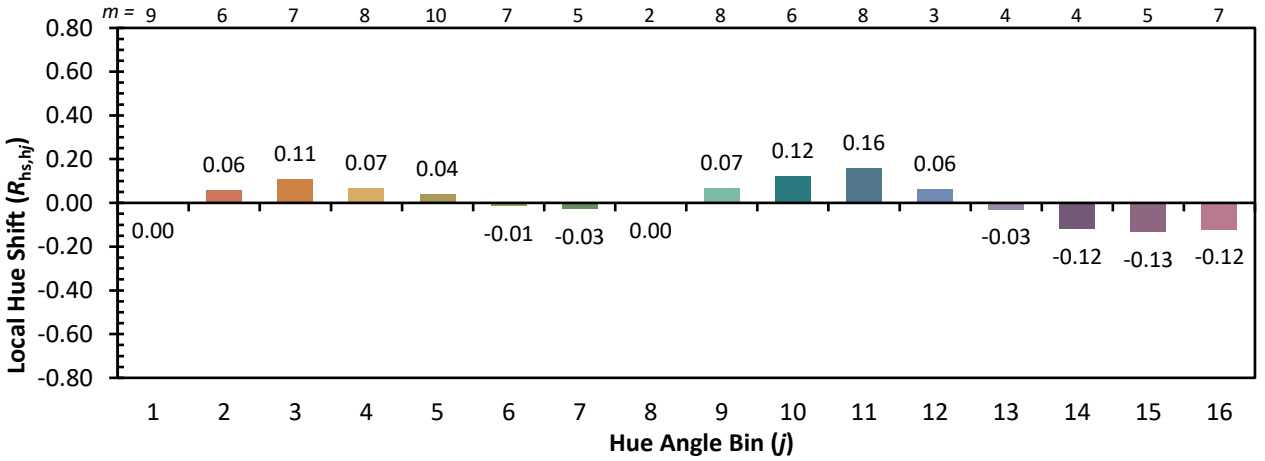
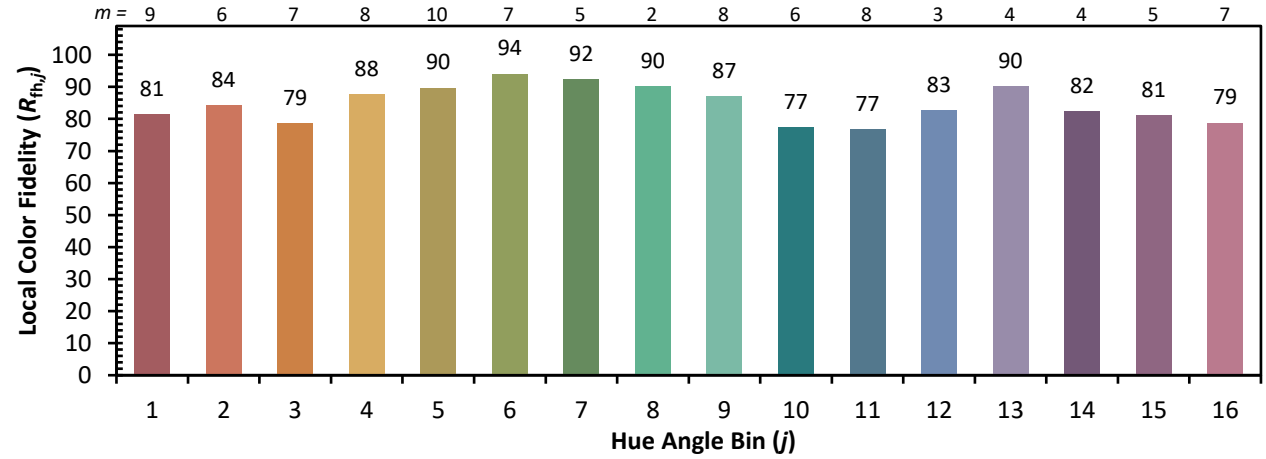
Color Rendition by Hue-Angle Bin







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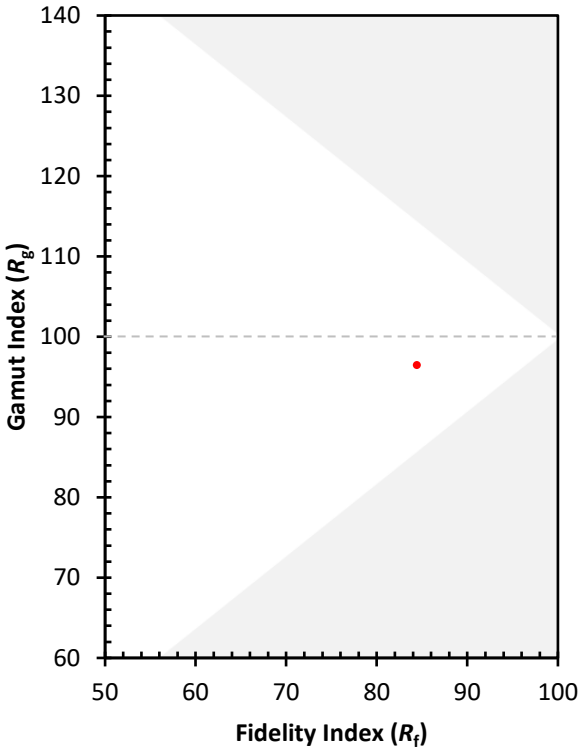
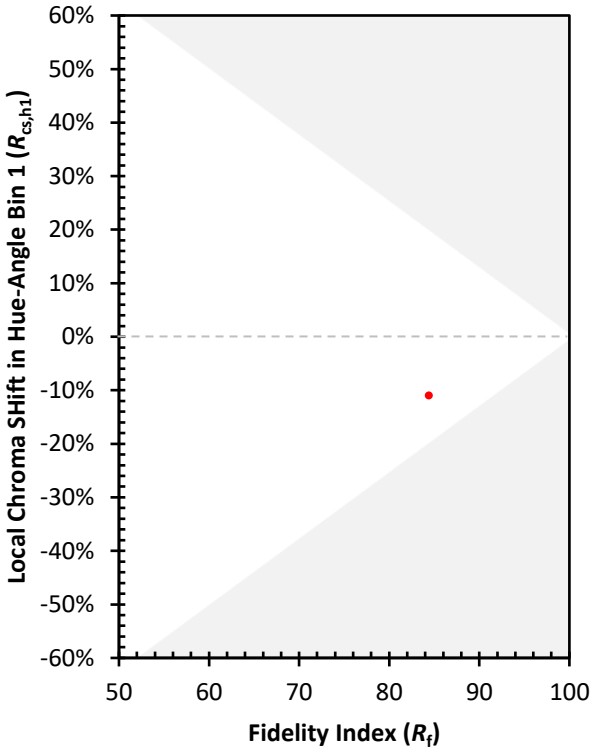
Measure Comparisons





(END OF REPORT)