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: P1449815

Luminaire Tested: **TWC100_T2_100W_3000K**

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:	P1449815
	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_3000K
Description:	Tapered Wall Cutoff Wall Mount Luminaire at, T2 distribution, 100W 3000K settings
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	15695 lumens
Efficiency:	N/A
Efficacy:	159.0 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

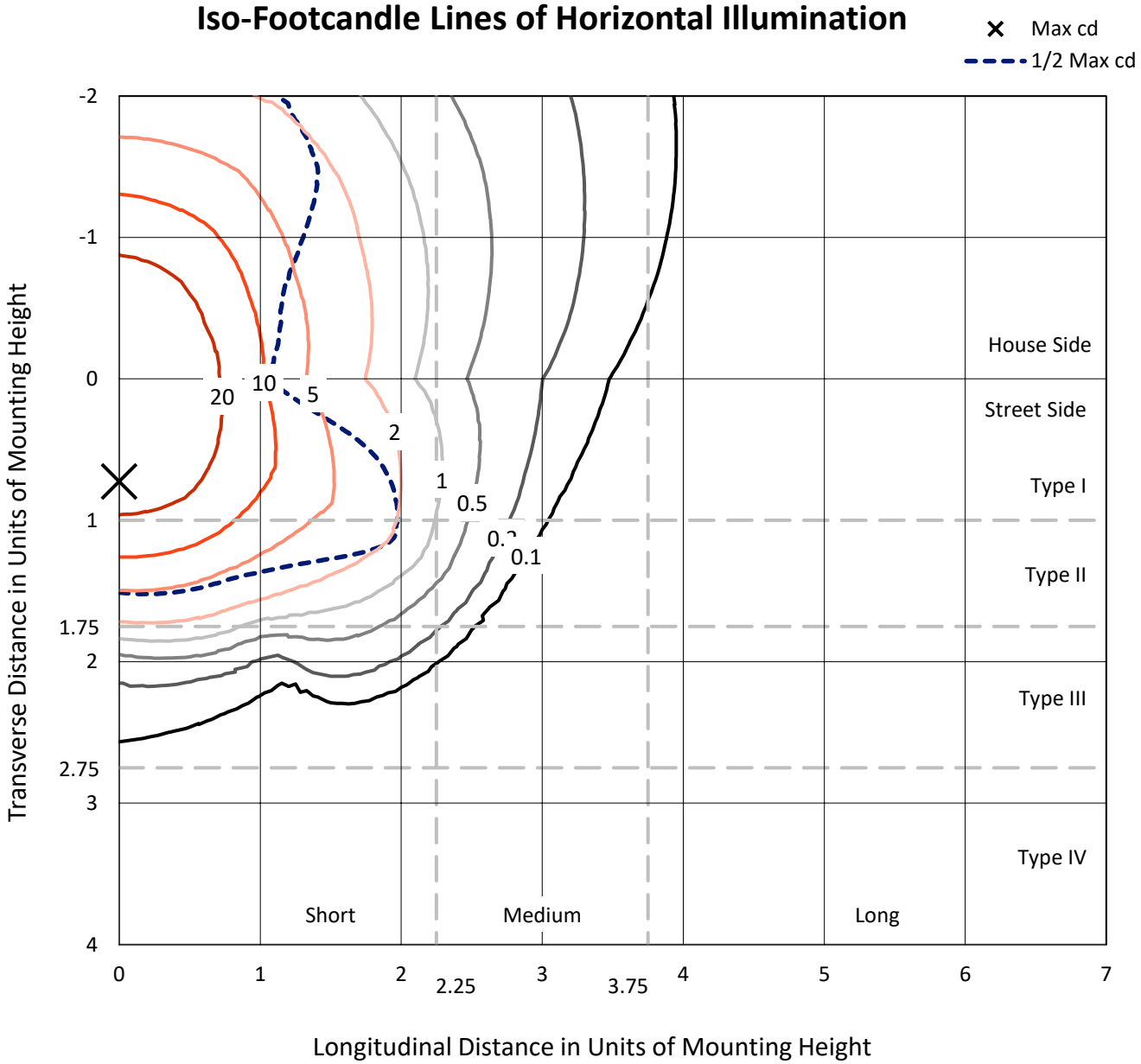
Input Watts (W):	98.7
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	25 FT

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

Scaled Data Report

REPORT NUMBER: P1449815
CATALOG NUMBER: TWC100_T2_100W_3000K

Iso-Footcandle Lines of Horizontal Illumination



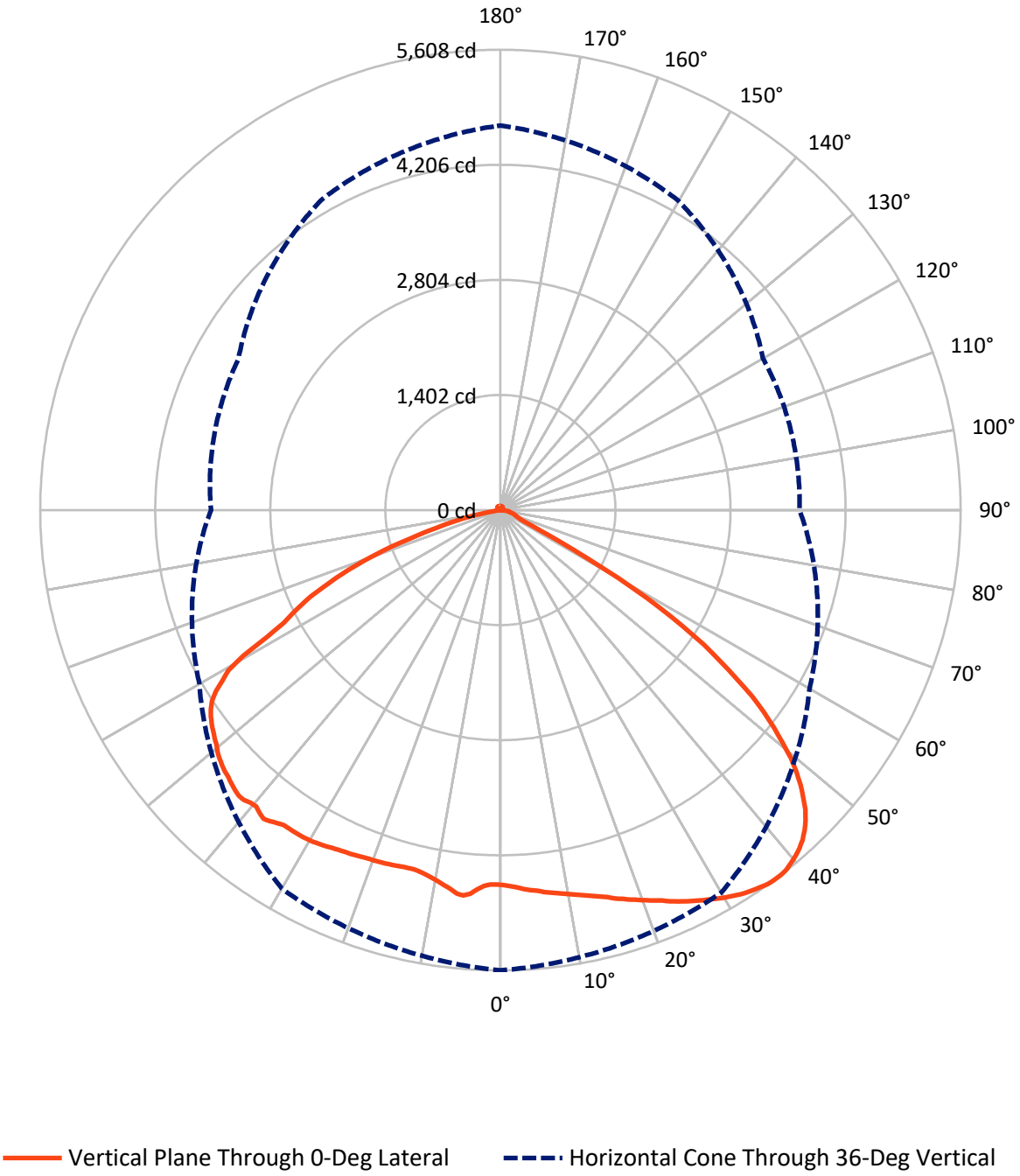
Based on 10 foot mounting height. Maximum calculated value = 45.9 fc
Type II - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1449815
CATALOG NUMBER: TWC100_T2_100W_3000K

Luminous Intensity Polar Plot



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

Scaled Data Report

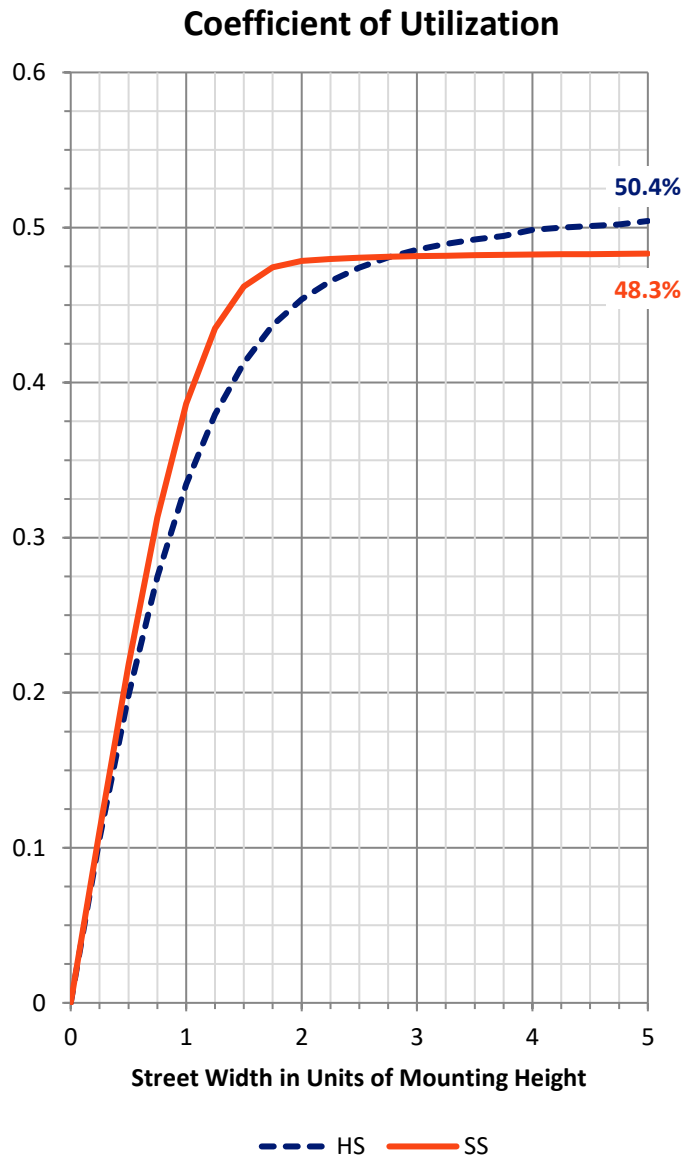
REPORT NUMBER: P1449815
CATALOG NUMBER: TWC100_T2_100W_3000K

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7944.5	84.7	8029.2
	% Fixture	50.6	0.5	51.2
Street Side	Lumens	7581.1	84.7	7665.8
	% Fixture	48.3	0.5	48.8
Total	Lumens	15525.7	169.3	15695.0
	% Fixture	98.9	1.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.1	2.8
10°-20°	1295.0	8.3
20°-30°	2090.9	13.3
30°-40°	2771.3	17.7
40°-50°	3173.1	20.2
50°-60°	3008.6	19.2
60°-70°	1883.3	12.0
70°-80°	717.5	4.6
80°-90°	146.0	0.9
90°-100°	7.4	0.0
100°-110°	14.8	0.1
110°-120°	22.9	0.1
120°-130°	28.3	0.2
130°-140°	29.6	0.2
140°-150°	27.0	0.2
150°-160°	21.2	0.1
160°-170°	13.4	0.1
170°-180°	4.6	0.0
0°-90°	15525.7	98.9
0°-180°	15695.0	100.0



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

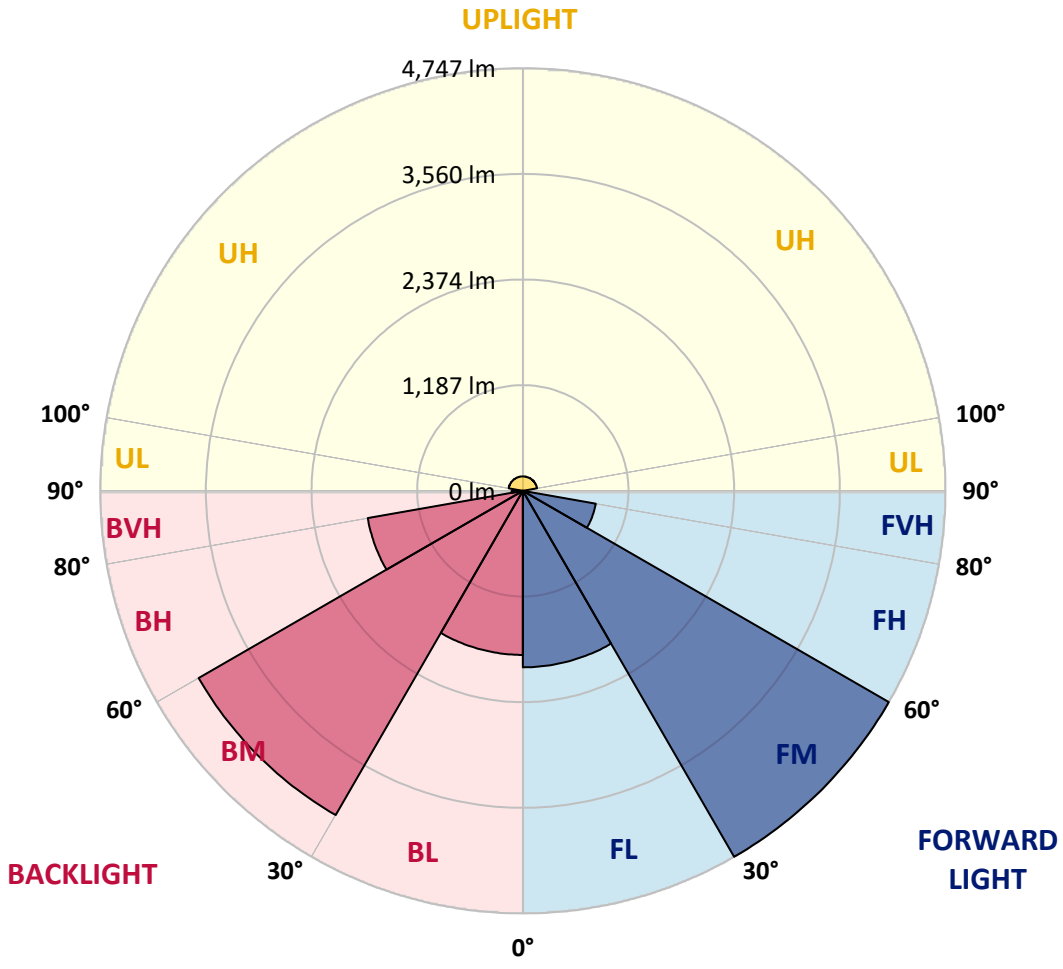
Scaled Data Report

REPORT NUMBER: P1449815
CATALOG NUMBER: TWC100_T2_100W_3000K

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1982.7	12.6			
FM	(30°-60°)	4747.3	30.2			
FH	(60°-80°)	831.7	5.3			G1/1800
FVH	(80°-90°)	19.5	0.1			G1/100
BL	(0°-30°)	1843.2	11.7	B3/2500		
BM	(30°-60°)	4205.6	26.8	B3/5000		
BH	(60°-80°)	1769.1	11.3	B3/2500		G3/2500
BVH	(80°-90°)	126.5	0.8			G2/225
UL	(90°-100°)	7.4	0.0		U1/10	
UH	(100°-180°)	161.9	1.0		U3/500	

BUG Rating: B3-U3-G3
Type II Short



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

Scaled Data Report

REPORT NUMBER: P1449815
CATALOG NUMBER: TWC100_T2_100W_3000K

CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	4568.2	4568.2	4568.2	4568.2	4568.2	4568.2	4568.2	4568.2	4568.2	4568.2	4568.2
1°	4584.7	4582.7	4579.2	4566.6	4562.5	4555.6	4561.7	4557.9	4554.9	4564.0	4573.4
2°	4601.8	4598.4	4585.7	4571.4	4556.3	4543.3	4563.1	4551.3	4547.5	4559.1	4581.2
3°	4625.1	4616.6	4595.6	4569.3	4547.0	4541.3	4581.9	4560.9	4540.9	4557.2	4588.3
4°	4643.7	4633.5	4604.0	4564.5	4540.2	4550.0	4627.6	4584.8	4540.5	4550.4	4592.0
5°	4659.0	4646.7	4606.8	4558.5	4537.0	4574.8	4688.2	4640.2	4540.9	4540.2	4600.5
6°	4682.9	4658.4	4608.8	4541.3	4535.0	4630.4	4717.1	4686.9	4546.1	4528.8	4601.6
7°	4700.7	4672.1	4610.5	4532.7	4539.4	4677.6	4701.0	4705.4	4557.1	4516.7	4600.1
8°	4719.8	4685.4	4611.0	4522.3	4550.1	4696.2	4656.1	4689.3	4581.2	4503.8	4598.1
9°	4738.8	4704.5	4609.4	4512.8	4567.6	4673.0	4622.5	4636.7	4607.9	4489.4	4587.8
10°	4760.0	4717.9	4606.4	4498.8	4600.8	4629.2	4588.2	4600.7	4625.0	4465.8	4583.9
11°	4782.8	4732.2	4604.3	4481.9	4617.7	4592.1	4560.0	4565.3	4623.3	4446.5	4577.8
12°	4810.5	4749.3	4600.5	4461.6	4620.9	4557.8	4533.1	4535.8	4608.3	4428.0	4572.2
13°	4835.9	4762.6	4595.5	4441.6	4607.2	4527.1	4514.9	4502.5	4571.3	4407.2	4562.2
14°	4864.3	4780.5	4590.6	4422.4	4575.2	4495.3	4501.8	4472.9	4526.8	4389.5	4555.2
15°	4894.0	4800.0	4579.6	4394.4	4527.2	4466.0	4503.4	4456.0	4484.5	4365.8	4547.0
16°	4934.6	4821.3	4573.0	4372.2	4485.0	4446.4	4506.4	4446.4	4441.7	4340.4	4544.9
17°	4966.5	4851.3	4568.8	4347.5	4442.4	4436.4	4516.4	4439.4	4399.6	4314.8	4538.3
18°	5003.6	4873.8	4569.7	4321.6	4399.2	4428.7	4523.3	4434.3	4351.0	4281.8	4530.7
19°	5037.9	4898.6	4563.4	4299.2	4358.6	4423.8	4529.7	4430.3	4308.7	4255.0	4522.5
20°	5075.0	4926.8	4558.7	4271.9	4314.2	4410.7	4536.5	4421.8	4265.5	4229.1	4505.7
21°	5112.4	4953.3	4545.7	4247.2	4265.2	4404.3	4539.8	4418.2	4225.0	4204.7	4495.0
22°	5149.4	4982.1	4538.9	4220.0	4222.1	4400.9	4547.9	4414.4	4188.7	4180.7	4484.5
23°	5198.6	5010.7	4532.0	4186.6	4187.3	4401.2	4556.7	4411.7	4157.8	4159.3	4479.7
24°	5239.9	5038.7	4522.9	4161.9	4151.5	4399.2	4568.2	4412.7	4126.6	4138.9	4468.9
25°	5279.8	5068.9	4519.2	4140.2	4120.5	4395.5	4575.7	4411.4	4095.9	4124.0	4455.1
26°	5319.3	5098.6	4507.2	4124.4	4087.3	4392.9	4585.1	4409.1	4062.5	4109.8	4439.5
27°	5358.5	5138.1	4496.2	4108.0	4053.7	4386.1	4599.9	4403.8	4026.7	4090.5	4419.4
28°	5394.7	5168.0	4481.9	4091.9	4012.8	4381.0	4616.2	4398.8	3989.8	4052.8	4400.9
29°	5433.5	5198.2	4466.5	4069.9	3976.4	4376.1	4627.7	4393.5	3953.4	4018.2	4383.2
30°	5470.2	5224.9	4451.6	4037.4	3938.2	4370.2	4641.7	4393.0	3907.9	3973.3	4364.3
31°	5503.8	5248.6	4438.3	3998.1	3899.4	4365.6	4650.0	4386.1	3870.3	3910.9	4340.1
32°	5533.2	5277.2	4420.5	3951.8	3853.4	4360.0	4655.9	4384.9	3833.0	3837.1	4320.4
33°	5558.5	5304.9	4405.5	3889.3	3812.9	4357.0	4658.1	4382.3	3798.7	3759.6	4299.9
34°	5578.8	5332.8	4387.7	3800.5	3773.3	4353.4	4657.0	4379.9	3762.0	3688.7	4283.3
35°	5599.7	5361.1	4367.1	3722.7	3733.7	4353.9	4658.2	4375.2	3724.9	3616.7	4260.7
36°	5607.6	5381.0	4348.9	3643.7	3694.6	4345.4	4684.2	4362.6	3686.2	3526.5	4235.7
37°	5606.9	5396.9	4330.1	3563.0	3656.0	4333.0	4715.0	4350.9	3639.8	3448.1	4211.7
38°	5597.1	5407.8	4309.6	3481.8	3615.5	4318.1	4741.1	4348.9	3599.5	3368.3	4177.7
39°	5568.9	5413.9	4290.1	3400.2	3574.4	4309.2	4714.9	4358.2	3555.1	3286.9	4157.6
40°	5539.3	5411.3	4274.9	3319.2	3521.9	4323.1	4678.4	4377.1	3506.9	3201.9	4137.5
41°	5499.6	5401.0	4258.9	3239.8	3477.6	4341.9	4689.4	4361.4	3458.3	3127.4	4120.7
42°	5449.6	5382.4	4248.7	3150.3	3430.1	4328.1	4716.7	4305.8	3412.4	3055.9	4110.5
43°	5383.1	5346.3	4240.8	3074.3	3381.2	4272.3	4720.2	4294.4	3361.4	2980.8	4097.4
44°	5304.5	5305.0	4234.8	3001.6	3325.7	4259.7	4701.8	4305.9	3305.7	2907.9	4086.7

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

Scaled Data Report

REPORT NUMBER: P1449815
CATALOG NUMBER: TWC100_T2_100W_3000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	5210.1	5252.7	4233.9	2928.2	3270.7	4272.4	4674.1	4302.7	3248.1	2834.1	4080.5
46°	5087.1	5186.2	4234.7	2850.1	3207.2	4269.9	4646.9	4278.0	3202.0	2755.5	4077.7
47°	4960.1	5106.8	4235.5	2771.2	3154.7	4247.4	4626.9	4252.6	3175.4	2665.4	4074.5
48°	4814.9	5008.4	4239.7	2690.4	3126.5	4221.7	4599.5	4227.4	3143.4	2585.9	4071.6
49°	4652.8	4894.0	4243.3	2608.4	3097.2	4195.9	4569.3	4202.0	3044.9	2505.8	4073.8
50°	4453.8	4763.6	4247.4	2519.2	3015.5	4170.6	4533.6	4166.4	2974.8	2424.6	4069.3
51°	4261.2	4591.0	4253.7	2438.7	2927.4	4135.8	4485.6	4127.4	2935.5	2342.6	4070.8
52°	4050.0	4420.3	4256.2	2355.0	2888.4	4099.8	4450.3	4088.5	2882.7	2257.0	4073.7
53°	3812.1	4230.3	4259.1	2262.4	2839.6	4059.9	4413.9	4047.1	2827.6	2174.5	4076.2
54°	3527.8	4005.7	4258.0	2179.0	2782.4	4017.7	4375.6	4006.1	2767.8	2090.7	4081.2
55°	3252.9	3779.5	4256.0	2094.4	2719.2	3977.8	4334.2	3969.3	2706.6	2004.5	4079.7
56°	2970.2	3522.8	4250.0	2010.1	2656.2	3941.7	4281.5	3933.5	2644.8	1904.9	4074.1
57°	2629.3	3211.6	4233.7	1917.7	2588.2	3901.3	4214.3	3898.0	2567.8	1816.3	4062.8
58°	2280.4	2908.0	4209.9	1828.8	2507.8	3865.5	4112.3	3848.0	2494.5	1728.6	4038.0
59°	1888.3	2598.0	4164.8	1740.2	2431.0	3825.4	3971.0	3798.7	2422.5	1631.3	4006.0
60°	1422.1	2272.8	4107.5	1640.5	2357.3	3777.2	3845.8	3740.5	2354.3	1542.9	3957.8
61°	1004.0	1878.3	4025.1	1554.7	2277.5	3715.8	3595.9	3652.1	2284.9	1454.3	3890.5
62°	669.4	1483.0	3913.7	1468.6	2210.3	3633.9	3227.8	3523.5	2224.4	1364.9	3783.3
63°	441.1	1060.3	3736.6	1379.8	2142.0	3525.8	2979.3	3408.0	2162.6	1277.3	3641.4
64°	304.9	678.7	3519.2	1283.5	2075.2	3403.5	2836.6	3158.6	2102.6	1206.9	3444.1
65°	263.4	388.3	3241.0	1207.6	2007.7	3120.9	2694.0	2886.6	2040.5	1117.3	3175.9
66°	245.5	245.0	2896.3	1127.5	1944.8	2864.0	2540.0	2737.8	1980.8	1032.2	2796.5
67°	231.4	192.6	2449.2	1020.6	1881.0	2736.9	2349.4	2636.8	1916.1	951.1	2379.1
68°	217.2	173.2	1981.9	928.5	1813.9	2628.8	2172.3	2537.7	1839.6	861.4	1921.3
69°	203.6	159.1	1482.2	842.2	1736.0	2531.2	1989.9	2407.2	1762.9	777.2	1370.2
70°	192.6	144.8	996.7	762.7	1661.6	2415.8	1780.5	2283.4	1682.6	696.4	908.2
71°	185.1	133.5	626.6	677.3	1580.6	2296.2	1585.8	2162.3	1593.2	612.8	556.2
72°	174.8	125.5	351.5	602.6	1484.6	2169.8	1382.4	2036.9	1459.2	540.1	321.5
73°	164.6	118.0	203.4	532.5	1355.4	2046.3	1156.4	1893.1	1337.2	472.2	190.0
74°	150.9	108.4	155.9	468.7	1232.3	1916.9	969.3	1752.1	1263.5	405.3	155.3
75°	140.6	97.2	133.7	403.6	1159.8	1782.8	803.9	1586.7	1186.5	351.4	134.4
76°	129.4	85.6	119.4	350.0	1086.5	1610.1	662.2	1396.2	1109.6	302.1	121.4
77°	121.5	77.5	111.0	304.6	1011.1	1427.3	533.3	1197.1	1039.0	258.5	112.9
78°	113.6	70.0	105.6	263.8	944.4	1241.7	430.7	1031.0	972.9	215.7	109.8
79°	106.8	64.5	97.9	224.8	881.6	1068.9	322.9	885.9	903.3	180.5	102.8
80°	99.7	58.9	82.9	191.5	811.1	905.6	179.3	752.4	837.5	147.4	85.3
81°	90.8	54.2	65.6	154.8	745.1	770.1	72.1	613.0	772.3	116.0	67.6
82°	81.3	49.0	51.8	114.7	679.8	638.1	51.6	469.6	708.5	86.0	51.8
83°	57.7	40.5	40.3	86.0	611.3	454.3	41.7	268.5	627.1	64.1	39.6
84°	41.1	33.4	33.4	62.8	530.3	232.1	30.5	97.1	543.5	46.5	32.6
85°	32.4	26.1	27.7	44.7	453.0	69.8	22.2	31.7	453.4	32.9	26.6
86°	24.0	19.9	22.7	29.2	367.0	25.6	13.3	19.6	371.9	22.0	22.0
87°	14.3	14.2	17.2	18.5	281.5	14.2	7.5	11.3	260.7	14.6	16.6
88°	7.0	7.9	10.3	9.5	148.4	6.6	4.2	5.3	109.4	9.1	10.5
89°	3.4	4.7	4.7	3.6	22.3	2.3	2.1	2.5	7.0	6.1	7.8

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

Scaled Data Report

REPORT NUMBER: P1449815
CATALOG NUMBER: TWC100_T2_100W_3000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	2.9	4.3	3.8	2.6	2.1	0.0	2.0	2.5	6.2	5.7	8.3
91°	3.4	4.9	4.3	2.5	2.2	0.0	2.3	2.6	7.0	6.2	8.8
92°	3.6	5.3	4.4	2.9	2.6	0.0	2.5	3.0	7.7	6.6	9.4
93°	4.4	6.1	5.2	3.0	3.0	0.0	2.9	3.4	8.3	7.3	10.1
94°	4.8	6.5	5.3	3.4	3.5	0.0	3.4	4.0	8.8	8.1	10.7
95°	5.5	7.1	6.0	3.5	4.2	1.4	3.8	4.7	9.6	8.6	11.4
96°	6.1	7.8	6.4	3.9	4.4	1.4	4.2	5.2	10.5	9.0	12.1
97°	6.8	8.4	6.9	4.3	4.7	1.6	4.6	6.0	11.4	9.7	12.7
98°	7.5	9.4	7.3	4.8	5.5	2.0	5.5	6.9	12.1	10.4	13.6
99°	8.3	10.0	7.8	5.5	6.0	2.0	6.2	7.7	13.0	11.0	14.2
100°	9.1	11.0	8.1	5.8	6.6	2.6	6.8	8.7	13.9	12.0	14.9
101°	9.9	11.8	8.8	6.4	6.9	3.1	7.8	9.5	14.8	12.6	15.5
102°	10.9	12.6	9.5	6.9	7.7	3.4	8.6	10.4	15.7	13.6	16.2
103°	12.0	13.4	9.9	7.4	8.3	4.0	9.5	11.8	16.9	14.2	17.2
104°	13.0	14.2	10.4	8.1	9.2	4.6	10.7	12.9	17.8	15.1	17.8
105°	14.2	14.8	11.0	8.6	9.9	5.2	11.7	13.9	18.7	15.7	18.5
106°	15.1	15.7	11.7	9.4	10.7	6.1	12.7	15.2	20.0	16.8	19.1
107°	15.9	16.6	12.3	9.7	11.4	6.8	14.2	16.4	20.8	17.5	19.9
108°	16.9	17.4	13.0	10.5	12.2	7.5	15.5	17.9	22.0	18.3	20.8
109°	18.1	18.2	13.8	11.3	13.3	8.4	16.5	19.0	23.0	19.2	21.4
110°	18.7	19.1	14.2	12.1	13.9	9.5	18.1	20.4	24.3	20.1	22.1
111°	20.0	20.0	14.9	12.7	14.9	10.4	19.4	21.8	24.9	20.9	22.7
112°	20.9	20.9	15.6	13.4	15.5	11.6	20.8	23.3	26.0	21.8	23.4
113°	22.1	21.8	16.2	14.2	16.5	12.5	22.2	24.3	26.9	22.6	24.3
114°	23.1	22.7	17.0	15.1	17.0	13.6	23.7	26.1	27.7	23.5	24.7
115°	24.0	23.5	17.4	15.7	17.7	14.9	25.1	27.5	28.5	24.4	25.5
116°	24.9	24.2	18.2	16.4	18.2	16.1	26.6	29.0	29.4	25.3	26.3
117°	26.0	25.1	18.8	17.2	19.4	17.3	27.9	30.1	30.1	26.3	27.0
118°	27.0	26.0	19.5	18.1	19.8	18.5	29.8	31.7	31.2	27.0	27.7
119°	27.7	26.8	20.1	18.7	20.7	19.6	31.2	32.7	31.8	28.1	28.5
120°	28.9	27.4	21.1	19.4	21.6	20.9	32.6	33.9	32.5	28.9	28.9
121°	29.6	28.1	21.7	20.4	22.1	22.1	34.2	35.1	33.3	29.5	29.5
122°	30.5	28.9	22.5	20.9	23.0	23.0	35.5	36.4	33.7	30.4	30.0
123°	31.2	29.6	23.0	22.0	23.8	24.3	36.8	37.6	34.6	31.2	30.7
124°	32.0	30.1	23.7	22.5	24.6	25.2	37.9	38.3	35.3	32.0	30.9
125°	32.7	30.9	24.3	23.3	25.2	26.1	39.2	39.5	36.1	32.6	32.0
126°	33.5	31.7	24.7	24.3	26.3	27.3	40.1	40.4	37.0	33.1	32.2
127°	34.3	32.4	25.5	24.9	27.2	28.2	41.1	41.1	37.4	33.9	33.0
128°	34.7	33.0	26.1	25.7	27.9	29.1	42.2	42.1	38.3	34.3	33.7
129°	35.6	33.5	26.4	26.4	28.9	29.8	43.0	42.9	39.2	34.8	34.0
130°	36.6	34.3	27.4	27.0	29.8	30.8	44.1	43.4	39.8	35.6	34.6
131°	37.6	34.7	27.7	27.7	30.9	31.6	44.8	44.1	40.3	36.4	35.0
132°	37.6	35.3	28.3	28.3	31.8	32.6	45.6	44.8	41.2	36.6	35.7
133°	38.2	35.9	29.2	28.9	32.6	33.4	46.4	45.5	41.8	37.2	35.9
134°	38.6	36.3	29.8	29.6	33.8	34.0	47.0	46.0	42.8	37.7	36.6

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

Scaled Data Report

REPORT NUMBER: P1449815
CATALOG NUMBER: TWC100_T2_100W_3000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
135°	39.1	37.0	30.3	30.0	34.7	35.1	47.8	46.3	43.1	38.1	37.2
136°	40.0	37.6	30.9	30.8	35.6	35.9	48.2	46.7	43.8	38.6	37.6
137°	40.3	37.4	31.5	31.3	36.8	36.9	48.6	47.3	44.2	39.1	37.6
138°	41.1	37.9	32.1	32.1	37.4	37.6	49.2	47.8	44.6	39.6	38.3
139°	41.3	38.5	32.5	32.6	38.2	38.3	49.1	48.1	45.0	40.0	38.7
140°	41.8	38.9	33.0	33.1	39.0	39.4	49.9	48.6	45.5	40.4	39.2
141°	42.1	39.4	33.5	33.7	39.6	40.3	50.2	48.9	45.7	40.7	39.6
142°	42.9	39.6	33.9	34.3	40.4	41.5	50.7	49.0	46.3	41.5	40.3
143°	43.0	39.9	35.0	35.0	41.1	42.1	50.7	49.5	46.7	42.0	40.4
144°	43.1	40.3	35.0	35.5	41.7	43.3	51.2	49.8	46.9	42.5	41.1
145°	43.3	40.8	35.6	35.6	42.4	43.9	51.1	49.9	47.0	42.8	41.3
146°	43.7	40.7	36.1	36.3	42.6	44.7	51.3	50.2	47.4	43.3	41.7
147°	43.8	41.2	36.6	36.9	43.1	45.5	51.5	50.2	47.6	43.7	42.1
148°	43.9	41.5	37.2	37.3	43.5	46.1	51.5	50.6	48.0	43.7	42.6
149°	44.3	41.7	37.7	37.7	43.8	46.7	51.6	50.7	48.0	44.4	43.1
150°	44.2	41.8	38.1	38.5	44.2	47.2	51.3	50.7	48.3	44.7	43.1
151°	44.7	42.4	38.5	38.6	44.6	48.0	51.5	50.6	48.2	45.1	43.7
152°	44.8	42.2	38.9	39.4	44.8	48.3	51.5	50.7	48.5	45.5	43.9
153°	45.0	42.6	39.5	39.5	45.1	48.7	51.3	50.7	48.7	46.0	44.3
154°	45.0	42.6	39.8	40.4	45.4	48.7	51.1	50.7	48.7	45.9	44.6
155°	45.1	43.1	40.4	40.4	45.7	49.1	51.1	50.7	48.7	46.0	45.0
156°	45.2	43.1	40.7	41.3	45.9	49.4	50.9	50.4	48.6	46.4	45.2
157°	45.2	43.4	41.1	41.6	46.1	49.1	50.6	50.7	48.7	46.7	45.4
158°	45.7	43.3	41.7	42.0	46.5	49.6	50.4	50.0	48.7	47.2	45.6
159°	45.5	43.8	42.0	42.5	46.5	49.6	50.2	50.3	49.0	47.3	46.0
160°	45.6	43.9	42.5	43.4	46.8	49.8	49.9	50.0	49.0	47.3	46.3
161°	45.7	44.3	42.8	43.3	46.9	49.8	49.9	50.2	48.9	47.7	46.4
162°	45.7	44.4	43.1	43.7	47.2	50.0	49.9	50.0	48.9	47.7	46.5
163°	45.9	44.6	43.5	44.2	47.6	50.0	49.8	49.8	48.9	48.1	46.8
164°	46.1	44.7	44.1	44.8	47.7	50.0	49.5	49.8	49.0	48.1	46.8
165°	46.3	45.1	44.1	45.0	47.8	50.0	49.1	49.6	49.0	48.2	47.0
166°	46.4	45.2	44.4	45.2	48.0	50.0	49.0	49.4	49.1	48.2	47.2
167°	46.4	45.5	44.8	45.6	48.2	50.0	49.4	49.6	49.1	48.7	47.6
168°	46.5	45.5	45.2	46.0	48.2	50.0	49.2	49.6	49.0	48.7	47.7
169°	46.7	46.0	45.5	46.3	48.5	50.0	48.9	49.4	49.1	49.0	47.8
170°	46.8	46.1	46.0	46.9	48.7	49.9	48.9	49.0	49.2	48.9	48.0
171°	47.0	46.3	46.0	47.2	49.0	50.2	49.2	49.4	48.7	49.2	48.1
172°	47.3	46.4	46.8	47.4	48.9	49.9	49.1	49.1	49.1	49.2	48.6
173°	47.6	46.7	46.7	47.8	48.9	49.9	49.2	48.9	49.1	49.5	48.5
174°	47.8	46.9	47.3	48.1	48.9	49.8	49.2	49.1	48.9	49.6	48.7
175°	48.1	47.3	47.6	48.5	49.0	49.8	49.2	49.0	49.1	49.5	48.9
176°	48.6	47.6	47.8	48.3	49.1	49.8	49.4	49.2	49.0	49.8	48.9
177°	48.7	47.8	47.8	49.0	49.0	49.9	49.4	48.6	48.6	49.6	49.1
178°	48.7	48.1	48.1	48.9	49.1	49.8	49.0	48.9	48.7	49.6	49.0
179°	48.9	48.3	48.7	49.2	49.2	49.6	49.2	48.7	48.9	49.4	49.4

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

Scaled Data Report

REPORT NUMBER: P1449815
CATALOG NUMBER: TWC100_T2_100W_3000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
180°	*49.0*	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0

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

Scaled Data Report

REPORT NUMBER: P1449815
CATALOG NUMBER: TWC100_T2_100W_3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	4568.2	4568.2
1°	4584.4	4584.7
2°	4606.6	4601.8
3°	4620.3	4625.1
4°	4633.7	4643.7
5°	4642.2	4659.0
6°	4654.1	4682.9
7°	4666.4	4700.7
8°	4678.1	4719.8
9°	4694.5	4738.8
10°	4708.3	4760.0
11°	4722.9	4782.8
12°	4740.0	4810.5
13°	4753.7	4835.9
14°	4772.1	4864.3
15°	4790.3	4894.0
16°	4816.0	4934.6
17°	4838.2	4966.5
18°	4861.3	5003.6
19°	4884.2	5037.9
20°	4911.2	5075.0
21°	4936.8	5112.4
22°	4963.6	5149.4
23°	4991.9	5198.6
24°	5017.8	5239.9
25°	5047.8	5279.8
26°	5075.2	5319.3
27°	5107.6	5358.5
28°	5136.1	5394.7
29°	5164.1	5433.5
30°	5188.8	5470.2
31°	5212.2	5503.8
32°	5238.6	5533.2
33°	5263.9	5558.5
34°	5285.8	5578.8
35°	5310.1	5599.7
36°	*5325.6*	*5607.6*
37°	5336.2	5606.9
38°	5342.9	5597.1
39°	5341.4	5568.9
40°	5332.7	5539.3
41°	5320.3	5499.6
42°	5296.4	5449.6
43°	5256.1	5383.1
44°	5211.7	5304.5

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

Scaled Data Report

REPORT NUMBER: P1449815
CATALOG NUMBER: TWC100_T2_100W_3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	5155.7	5210.1
46°	5084.6	5087.1
47°	5002.8	4960.1
48°	4902.3	4814.9
49°	4785.3	4652.8
50°	4630.8	4453.8
51°	4473.0	4261.2
52°	4295.9	4050.0
53°	4100.6	3812.1
54°	3868.4	3527.8
55°	3630.4	3252.9
56°	3361.1	2970.2
57°	3072.0	2629.3
58°	2737.5	2280.4
59°	2422.0	1888.3
60°	2080.1	1422.1
61°	1706.6	1004.0
62°	1264.3	669.4
63°	858.1	441.1
64°	527.7	304.9
65°	314.7	263.4
66°	207.5	245.5
67°	178.9	231.4
68°	162.7	217.2
69°	146.7	203.6
70°	133.3	192.6
71°	124.4	185.1
72°	117.3	174.8
73°	108.2	164.6
74°	98.2	150.9
75°	87.6	140.6
76°	78.6	129.4
77°	71.0	121.5
78°	64.3	113.6
79°	60.0	106.8
80°	55.8	99.7
81°	51.3	90.8
82°	45.6	81.3
83°	38.1	57.7
84°	32.0	41.1
85°	24.4	32.4
86°	20.0	24.0
87°	15.3	14.3
88°	10.7	7.0
89°	9.9	3.4

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

Scaled Data Report

REPORT NUMBER: P1449815
CATALOG NUMBER: TWC100_T2_100W_3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
90°	10.7	2.9
91°	11.4	3.4
92°	12.5	3.6
93°	13.3	4.4
94°	14.3	4.8
95°	15.2	5.5
96°	16.1	6.1
97°	17.3	6.8
98°	18.2	7.5
99°	19.2	8.3
100°	20.4	9.1
101°	21.2	9.9
102°	22.1	10.9
103°	22.9	12.0
104°	24.2	13.0
105°	24.9	14.2
106°	25.9	15.1
107°	26.9	15.9
108°	27.8	16.9
109°	28.6	18.1
110°	29.4	18.7
111°	30.4	20.0
112°	31.2	20.9
113°	32.2	22.1
114°	32.9	23.1
115°	33.5	24.0
116°	34.3	24.9
117°	35.1	26.0
118°	35.6	27.0
119°	36.1	27.7
120°	36.8	28.9
121°	37.4	29.6
122°	37.4	30.5
123°	37.9	31.2
124°	38.6	32.0
125°	39.0	32.7
126°	39.2	33.5
127°	39.8	34.3
128°	40.1	34.7
129°	40.1	35.6
130°	40.8	36.6
131°	40.9	37.6
132°	41.1	37.6
133°	41.3	38.2
134°	41.8	38.6

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

Scaled Data Report

REPORT NUMBER: P1449815
CATALOG NUMBER: TWC100_T2_100W_3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
135°	42.0	39.1
136°	42.2	40.0
137°	42.5	40.3
138°	42.8	41.1
139°	43.1	41.3
140°	42.9	41.8
141°	43.0	42.1
142°	43.3	42.9
143°	43.7	43.0
144°	43.7	43.1
145°	43.8	43.3
146°	43.9	43.7
147°	44.4	43.8
148°	44.2	43.9
149°	44.3	44.3
150°	44.4	44.2
151°	44.8	44.7
152°	45.0	44.8
153°	45.2	45.0
154°	45.1	45.0
155°	45.1	45.1
156°	45.4	45.2
157°	45.6	45.2
158°	45.6	45.7
159°	45.7	45.5
160°	45.7	45.6
161°	45.9	45.7
162°	46.0	45.7
163°	46.0	45.9
164°	46.3	46.1
165°	46.5	46.3
166°	46.7	46.4
167°	46.9	46.4
168°	47.0	46.5
169°	47.2	46.7
170°	47.3	46.8
171°	47.7	47.0
172°	47.6	47.3
173°	48.1	47.6
174°	48.3	47.8
175°	48.5	48.1
176°	48.6	48.6
177°	48.6	48.7
178°	49.1	48.7
179°	49.2	48.9

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

Scaled Data Report

REPORT NUMBER: P1449815
CATALOG NUMBER: TWC100_T2_100W_3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
180°	49.0	49.0

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

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Lumark

Report Number: SP1-2601-659-1

Test Date: 02/12/2026

Luminaire Tested: MWP2460W34VDDKYYAD-T4-24W-3000K

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.05

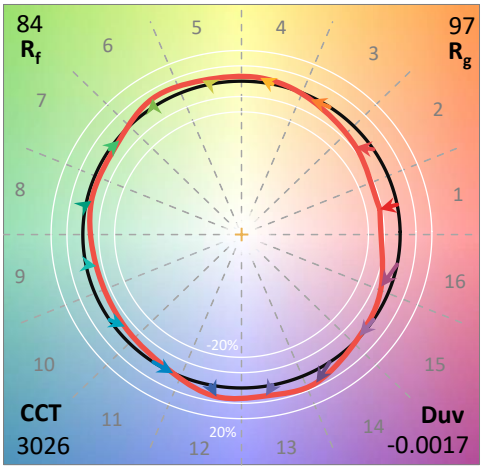
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2601-659-1
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-3000K**
Description:	Mester Wedge, at T4 beam setting, 24W output, 3000K

Spectral Parameters

CCT (K):	3026
CIE u':	0.2503
CIE v':	0.5184
Duv:	-0.0017
CIE x:	0.4326
CIE y:	0.3983
CIE z:	0.1691
Peak Wavelength (nm):	604
Dominant Wavelength (nm):	583
Purity:	49.3886
Rf:	84
Rg:	97.4

CRI (Ra):	82.7
R1:	81.4
R2:	90.7
R3:	96.3
R4:	81.1
R5:	81.6
R6:	88.6
R7:	82.6
R8:	59.3
R9:	7.5
R10:	78.8
R11:	80.8
R12:	70.7
R13:	83.7
R14:	98.6
R15:	74.2



Test Conditions

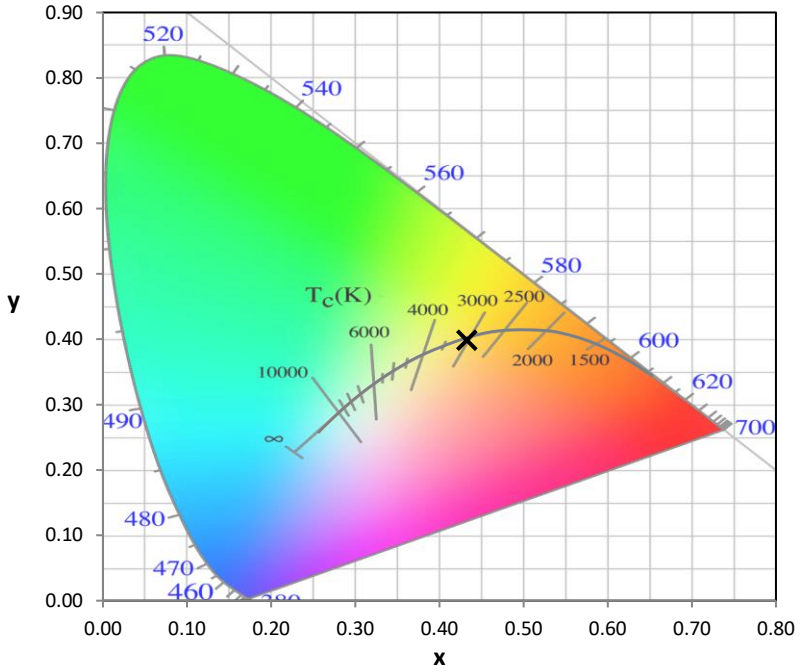
Stabilization Time:	64M
Operation Time:	2H 4M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2601-659-1

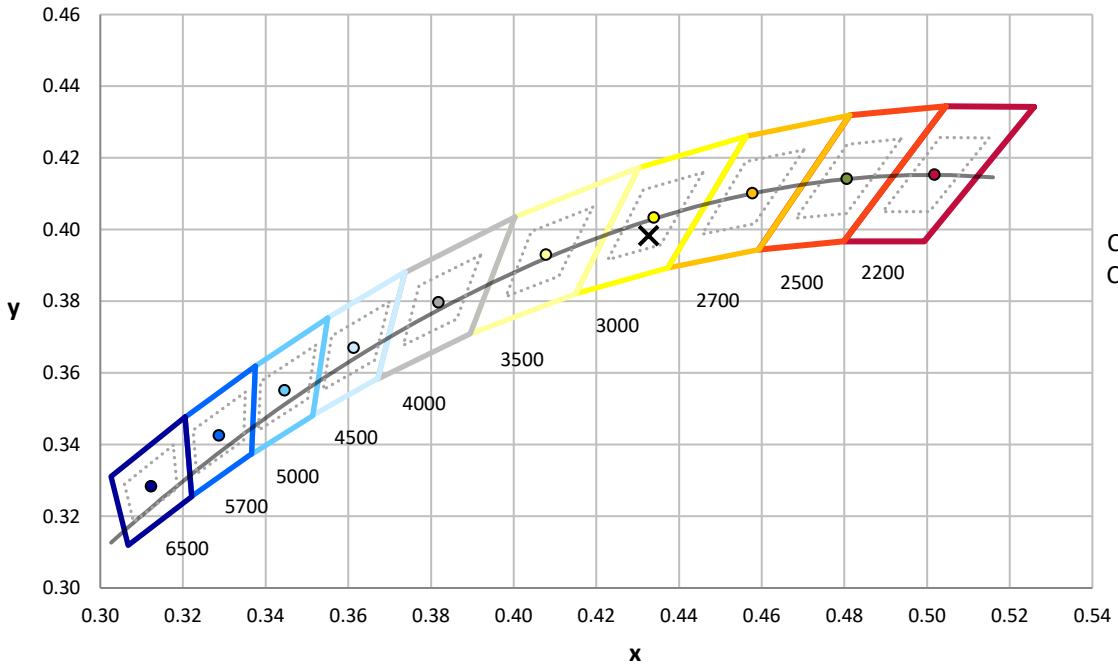
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	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: SP1-2601-659-1

CIE 1931 Chromaticity Diagram



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

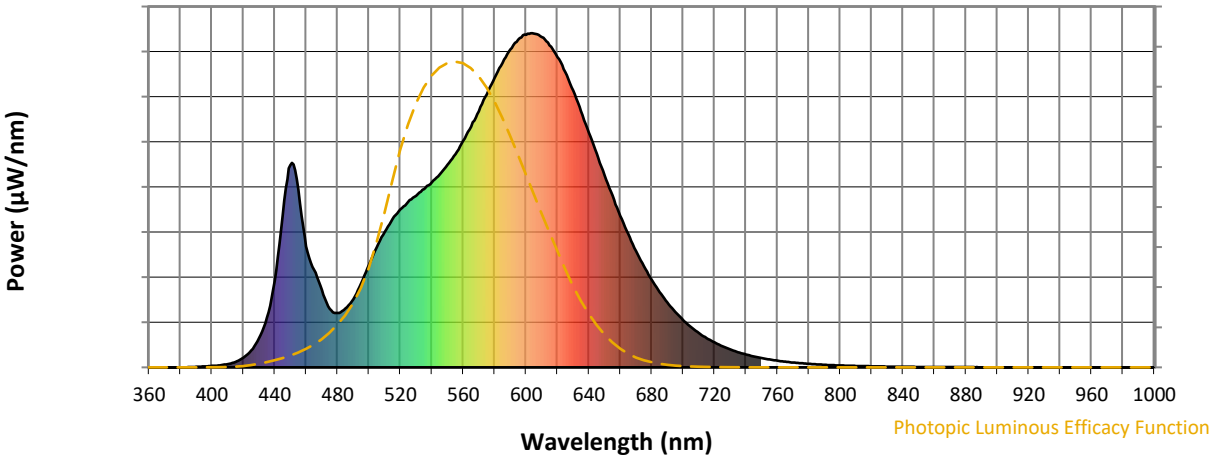


CCT = 3026K
CIE x = 0.4326
CIE y = 0.3983
Duv = -0.0017

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2601-659-1

Photopic Flux vs. Wavelength

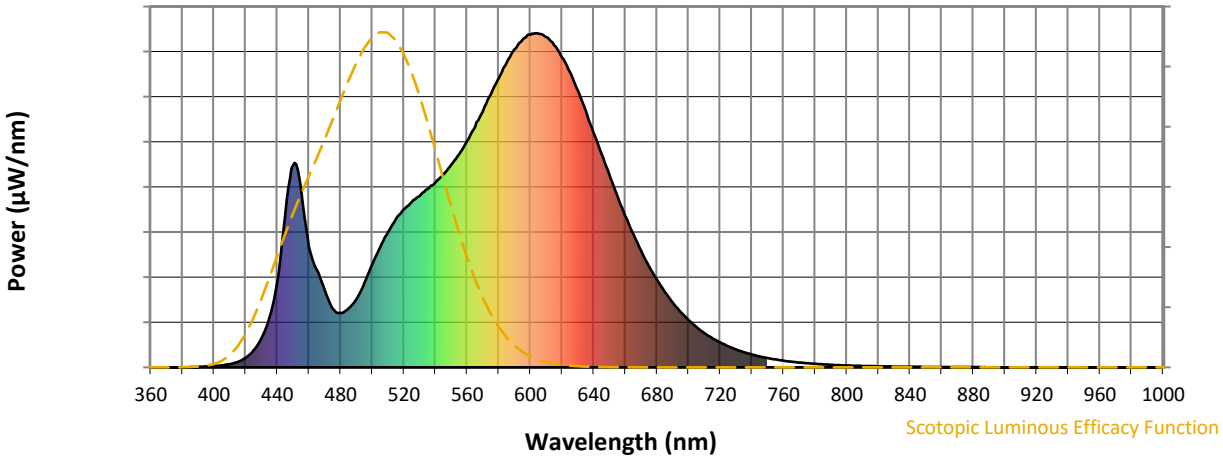


Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	204	NR	620	928	NR	750	28	NR	880	1	NR
365	0	NR	495	251	NR	625	884	NR	755	24	NR	885	1	NR
370	0	NR	500	307	NR	630	828	NR	760	20	NR	890	0	NR
375	0	NR	505	360	NR	635	767	NR	765	17	NR	895	0	NR
380	0	NR	510	405	NR	640	702	NR	770	14	NR	900	0	NR
385	1	NR	515	444	NR	645	639	NR	775	12	NR	905	0	NR
390	2	NR	520	473	NR	650	574	NR	780	11	NR	910	0	NR
395	3	NR	525	495	NR	655	514	NR	785	9	NR	915	0	NR
400	5	NR	530	513	NR	660	453	NR	790	8	NR	920	0	NR
405	6	NR	535	534	NR	665	399	NR	795	7	NR	925	0	NR
410	10	NR	540	554	NR	670	348	NR	800	6	NR	930	0	NR
415	17	NR	545	577	NR	675	303	NR	805	5	NR	935	0	NR
420	29	NR	550	606	NR	680	263	NR	810	4	NR	940	0	NR
425	51	NR	555	638	NR	685	226	NR	815	4	NR	945	0	NR
430	87	NR	560	678	NR	690	194	NR	820	3	NR	950	0	NR
435	150	NR	565	720	NR	695	166	NR	825	3	NR	955	0	NR
440	258	NR	570	767	NR	700	142	NR	830	2	NR	960	0	NR
445	454	NR	575	817	NR	705	121	NR	835	2	NR	965	0	NR
450	605	NR	580	866	NR	710	103	NR	840	2	NR	970	0	NR
455	533	NR	585	911	NR	715	87	NR	845	2	NR	975	0	NR
460	362	NR	590	952	NR	720	74	NR	850	1	NR	980	0	NR
465	293	NR	595	981	NR	725	63	NR	855	1	NR	985	0	NR
470	231	NR	600	995	NR	730	54	NR	860	1	NR	990	0	NR
475	176	NR	605	999	NR	735	46	NR	865	1	NR	995	0	NR
480	163	NR	610	989	NR	740	38	NR	870	1	NR	1000	0	NR
485	176	NR	615	964	NR	745	33	NR	875	1	NR			

REPORT NUMBER: SP1-2601-659-1

Scotopic Flux vs. Wavelength

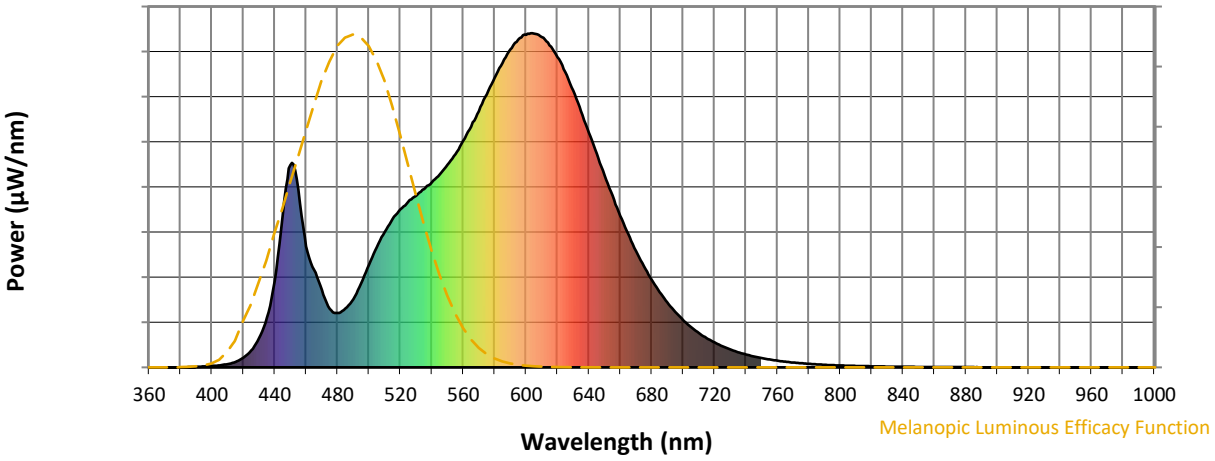


Scotopic Lumens: NR **S/P: 1.35**

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	204	NR	620	928	NR	750	28	NR	880	1	NR
365	0	NR	495	251	NR	625	884	NR	755	24	NR	885	1	NR
370	0	NR	500	307	NR	630	828	NR	760	20	NR	890	0	NR
375	0	NR	505	360	NR	635	767	NR	765	17	NR	895	0	NR
380	0	NR	510	405	NR	640	702	NR	770	14	NR	900	0	NR
385	1	NR	515	444	NR	645	639	NR	775	12	NR	905	0	NR
390	2	NR	520	473	NR	650	574	NR	780	11	NR	910	0	NR
395	3	NR	525	495	NR	655	514	NR	785	9	NR	915	0	NR
400	5	NR	530	513	NR	660	453	NR	790	8	NR	920	0	NR
405	6	NR	535	534	NR	665	399	NR	795	7	NR	925	0	NR
410	10	NR	540	554	NR	670	348	NR	800	6	NR	930	0	NR
415	17	NR	545	577	NR	675	303	NR	805	5	NR	935	0	NR
420	29	NR	550	606	NR	680	263	NR	810	4	NR	940	0	NR
425	51	NR	555	638	NR	685	226	NR	815	4	NR	945	0	NR
430	87	NR	560	678	NR	690	194	NR	820	3	NR	950	0	NR
435	150	NR	565	720	NR	695	166	NR	825	3	NR	955	0	NR
440	258	NR	570	767	NR	700	142	NR	830	2	NR	960	0	NR
445	454	NR	575	817	NR	705	121	NR	835	2	NR	965	0	NR
450	605	NR	580	866	NR	710	103	NR	840	2	NR	970	0	NR
455	533	NR	585	911	NR	715	87	NR	845	2	NR	975	0	NR
460	362	NR	590	952	NR	720	74	NR	850	1	NR	980	0	NR
465	293	NR	595	981	NR	725	63	NR	855	1	NR	985	0	NR
470	231	NR	600	995	NR	730	54	NR	860	1	NR	990	0	NR
475	176	NR	605	999	NR	735	46	NR	865	1	NR	995	0	NR
480	163	NR	610	989	NR	740	38	NR	870	1	NR	1000	0	NR
485	176	NR	615	964	NR	745	33	NR	875	1	NR			

REPORT NUMBER: SP1-2601-659-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.61**

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	204	NR	620	928	NR	750	28	NR	880	1	NR
365	0	NR	495	251	NR	625	884	NR	755	24	NR	885	1	NR
370	0	NR	500	307	NR	630	828	NR	760	20	NR	890	0	NR
375	0	NR	505	360	NR	635	767	NR	765	17	NR	895	0	NR
380	0	NR	510	405	NR	640	702	NR	770	14	NR	900	0	NR
385	1	NR	515	444	NR	645	639	NR	775	12	NR	905	0	NR
390	2	NR	520	473	NR	650	574	NR	780	11	NR	910	0	NR
395	3	NR	525	495	NR	655	514	NR	785	9	NR	915	0	NR
400	5	NR	530	513	NR	660	453	NR	790	8	NR	920	0	NR
405	6	NR	535	534	NR	665	399	NR	795	7	NR	925	0	NR
410	10	NR	540	554	NR	670	348	NR	800	6	NR	930	0	NR
415	17	NR	545	577	NR	675	303	NR	805	5	NR	935	0	NR
420	29	NR	550	606	NR	680	263	NR	810	4	NR	940	0	NR
425	51	NR	555	638	NR	685	226	NR	815	4	NR	945	0	NR
430	87	NR	560	678	NR	690	194	NR	820	3	NR	950	0	NR
435	150	NR	565	720	NR	695	166	NR	825	3	NR	955	0	NR
440	258	NR	570	767	NR	700	142	NR	830	2	NR	960	0	NR
445	454	NR	575	817	NR	705	121	NR	835	2	NR	965	0	NR
450	605	NR	580	866	NR	710	103	NR	840	2	NR	970	0	NR
455	533	NR	585	911	NR	715	87	NR	845	2	NR	975	0	NR
460	362	NR	590	952	NR	720	74	NR	850	1	NR	980	0	NR
465	293	NR	595	981	NR	725	63	NR	855	1	NR	985	0	NR
470	231	NR	600	995	NR	730	54	NR	860	1	NR	990	0	NR
475	176	NR	605	999	NR	735	46	NR	865	1	NR	995	0	NR
480	163	NR	610	989	NR	740	38	NR	870	1	NR	1000	0	NR
485	176	NR	615	964	NR	745	33	NR	875	1	NR			

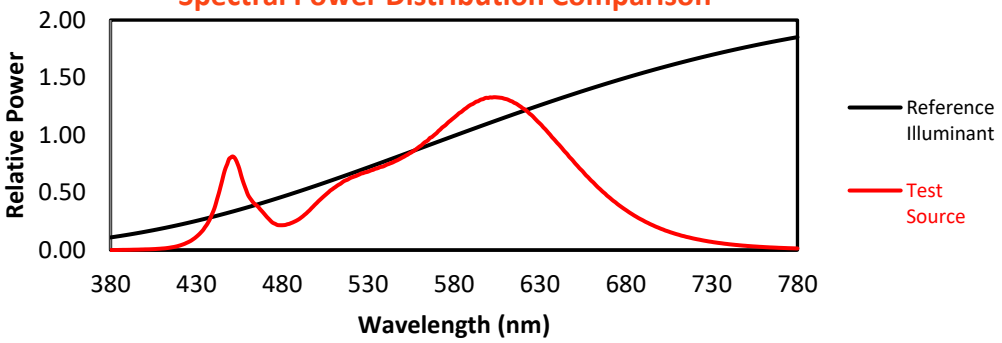
REPORT NUMBER: SP1-2601-659-1

TM-30-18

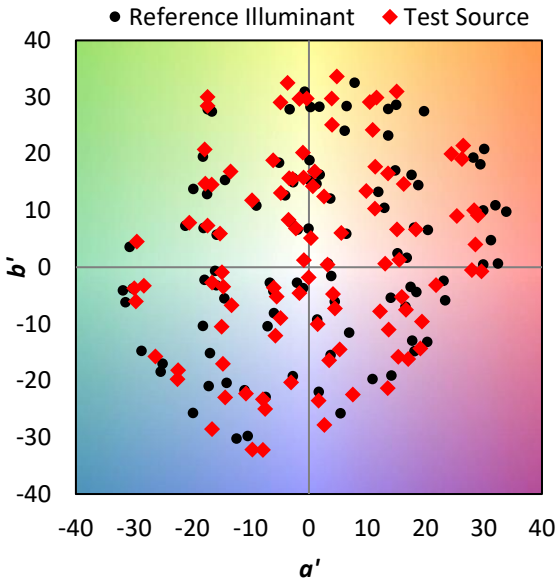
Summary

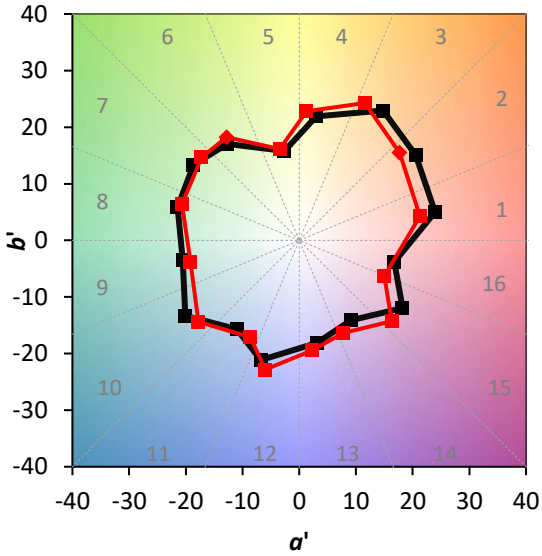
R_f = 84
R_g = 97.4
CIE R_a = 82.7
R_9 = 7.5

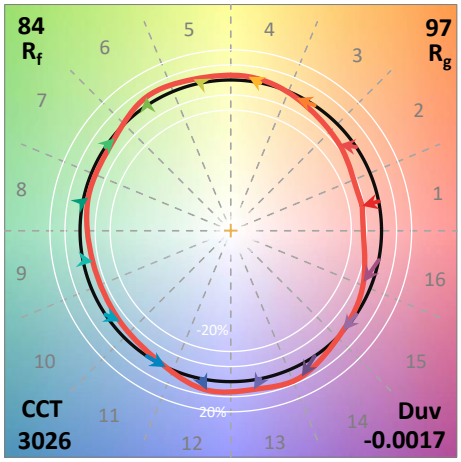
Spectral Power Distribution Comparison

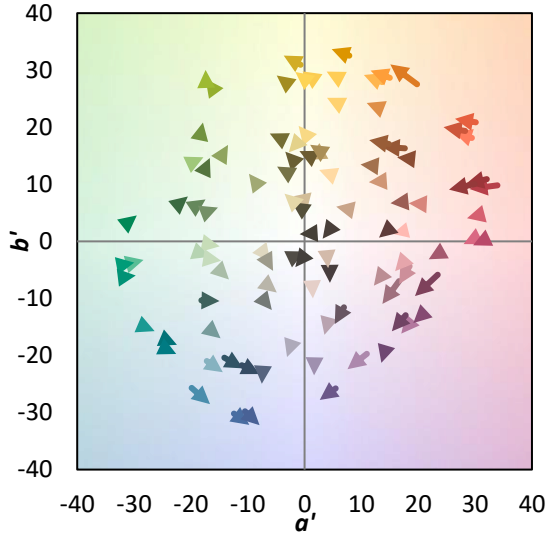


Color Vector Graphics







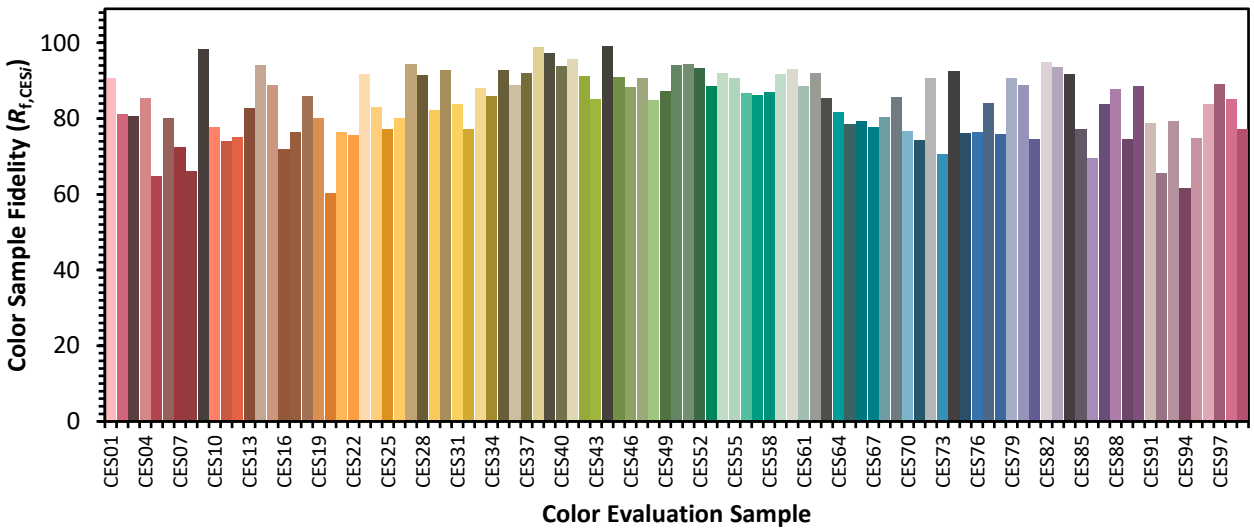


REPORT NUMBER: SP1-2601-659-1

TM-30-18

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

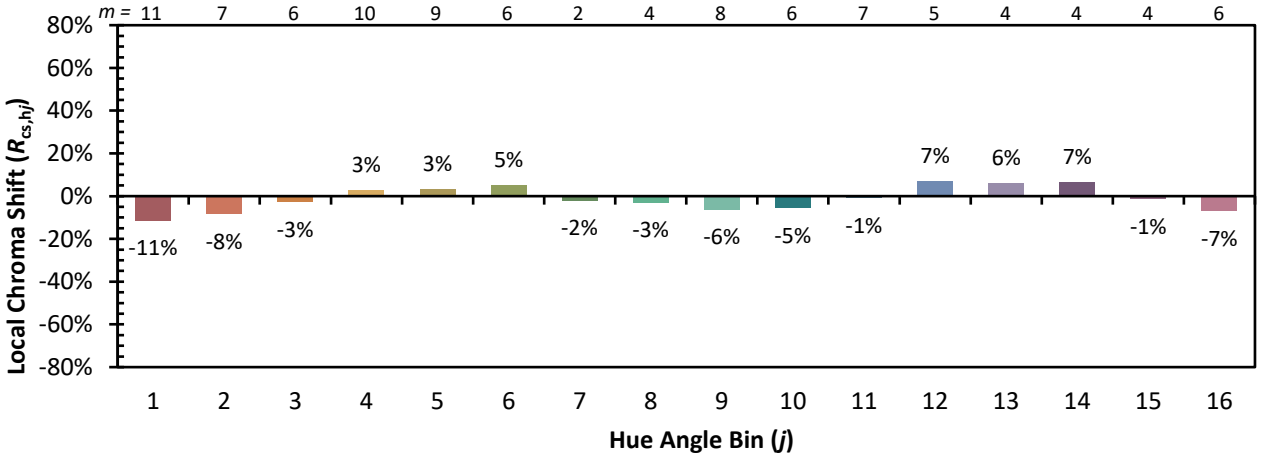
CES01 = 86	CES26 = 80	CES51 = 94	CES76 = 76
CES02 = 63	CES27 = 94	CES52 = 93	CES77 = 84
CES03 = 31	CES28 = 92	CES53 = 88	CES78 = 76
CES04 = 70	CES29 = 82	CES54 = 92	CES79 = 91
CES05 = 50	CES30 = 93	CES55 = 91	CES80 = 89
CES06 = 51	CES31 = 84	CES56 = 87	CES81 = 75
CES07 = 42	CES32 = 77	CES57 = 86	CES82 = 95
CES08 = 41	CES33 = 88	CES58 = 87	CES83 = 93
CES09 = 29	CES34 = 86	CES59 = 92	CES84 = 92
CES10 = 76	CES35 = 93	CES60 = 93	CES85 = 77
CES11 = 59	CES36 = 89	CES61 = 89	CES86 = 69
CES12 = 65	CES37 = 92	CES62 = 92	CES87 = 84
CES13 = 43	CES38 = 99	CES63 = 85	CES88 = 88
CES14 = 74	CES39 = 97	CES64 = 82	CES89 = 75
CES15 = 72	CES40 = 94	CES65 = 79	CES90 = 89
CES16 = 48	CES41 = 96	CES66 = 79	CES91 = 79
CES17 = 50	CES42 = 91	CES67 = 78	CES92 = 66
CES18 = 57	CES43 = 85	CES68 = 80	CES93 = 79
CES19 = 72	CES44 = 99	CES69 = 86	CES94 = 62
CES20 = 67	CES45 = 91	CES70 = 77	CES95 = 75
CES21 = 87	CES46 = 88	CES71 = 74	CES96 = 84
CES22 = 79	CES47 = 91	CES72 = 91	CES97 = 89
CES23 = 92	CES48 = 85	CES73 = 71	CES98 = 85
CES24 = 91	CES49 = 87	CES74 = 93	CES99 = 77
CES25 = 72	CES50 = 94	CES75 = 76	

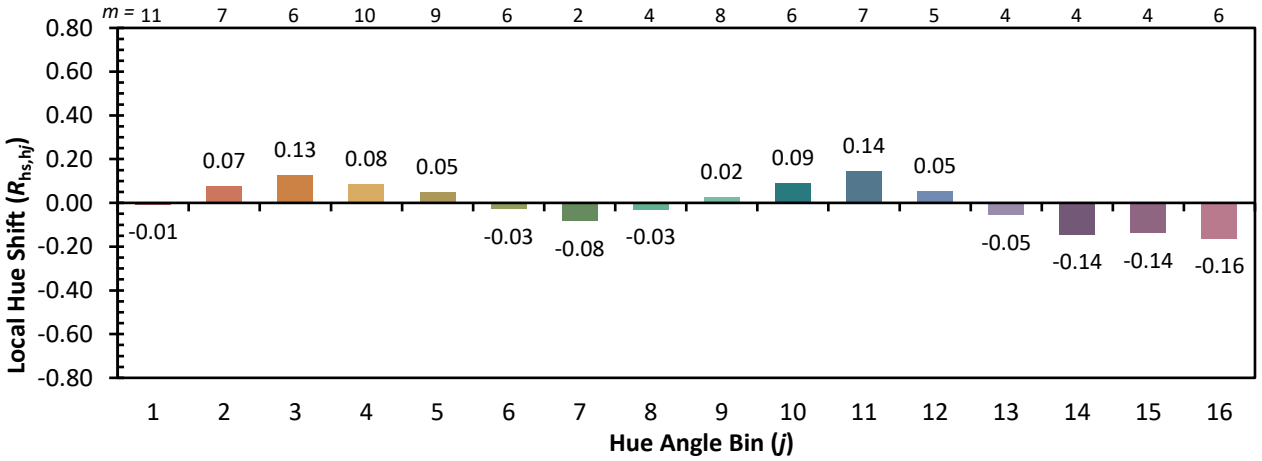


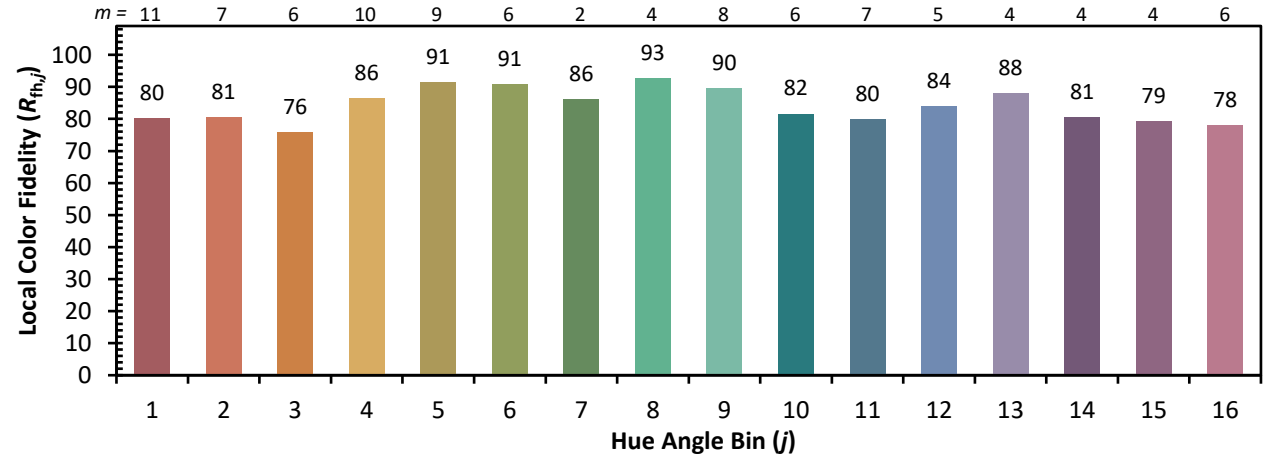
REPORT NUMBER: SP1-2601-659-1

TM-30-18

Color Rendition by Hue-Angle Bin



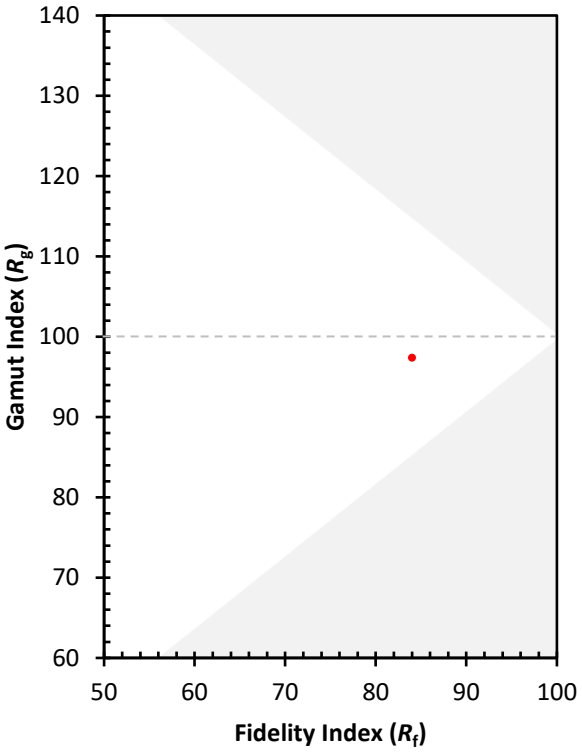


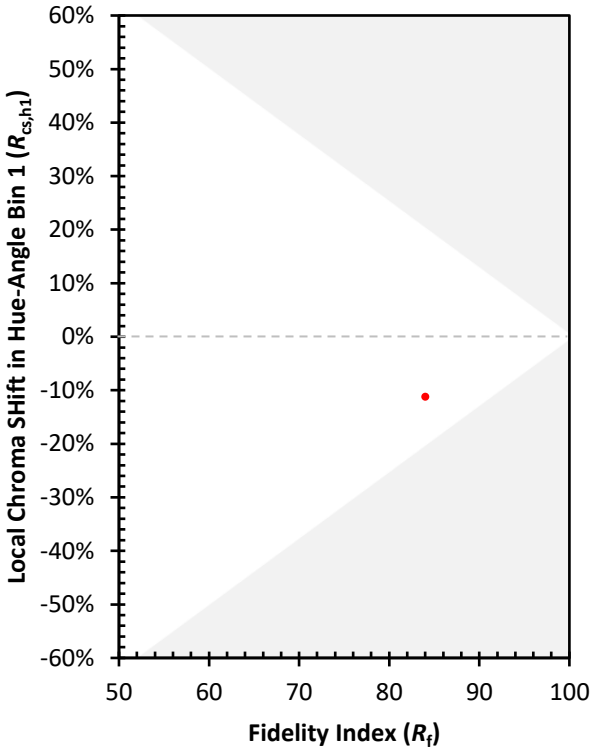


REPORT NUMBER: SP1-2601-659-1

TM-30-18

Measure Comparisons





(END OF REPORT)