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: P1449839

Luminaire Tested: **TWC100_T4_100W_3000K**

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:	P1449839
	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_3000K
Description:	Tapered Wall Cutoff Wall Mount Luminaire at, T4 distribution, 100W 3000K settings
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	15168 lumens
Efficiency:	N/A
Efficacy:	153.5 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):	98.8
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	25 FT

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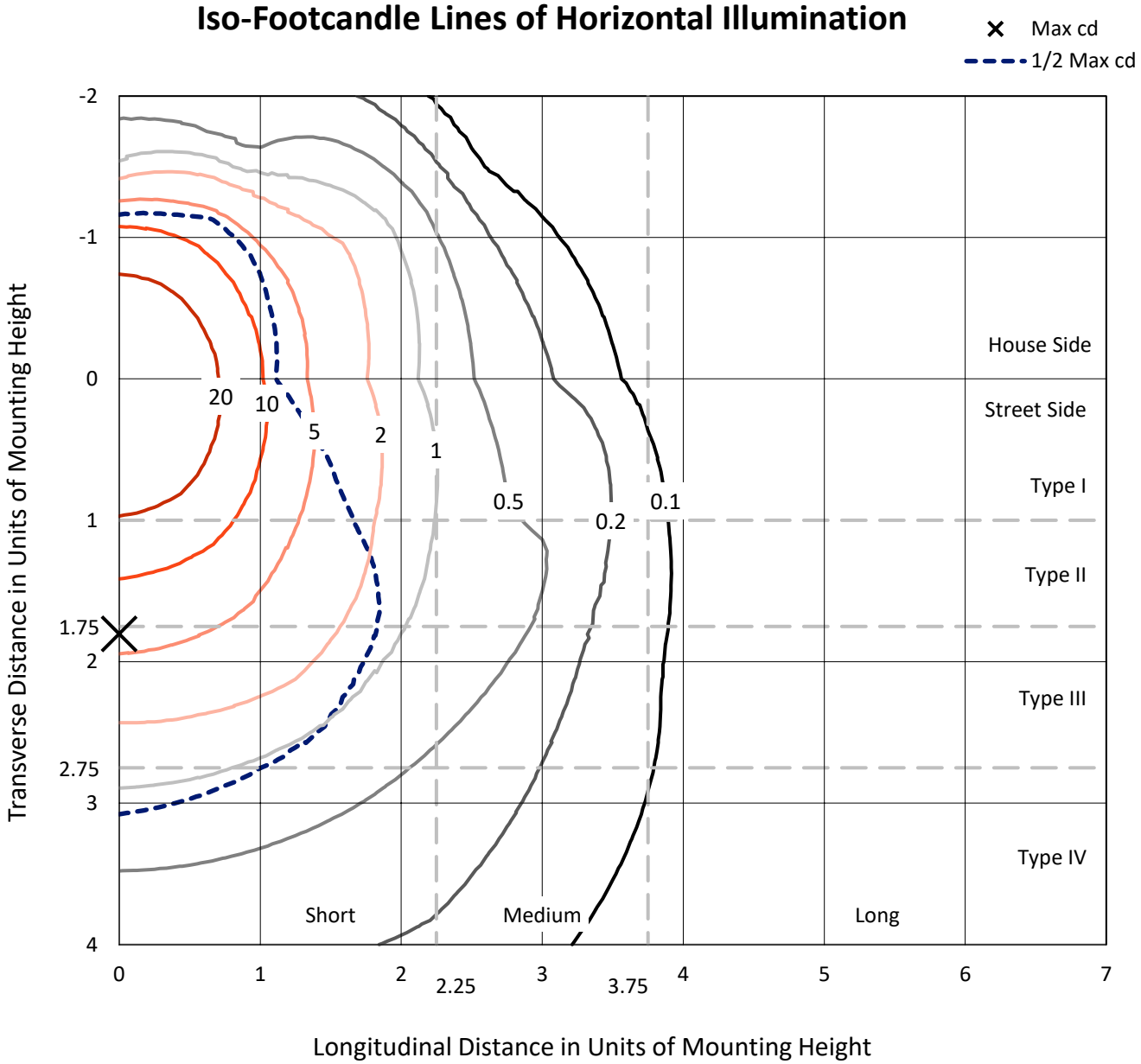
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 48.2 fc
Type IV - Short - N/A

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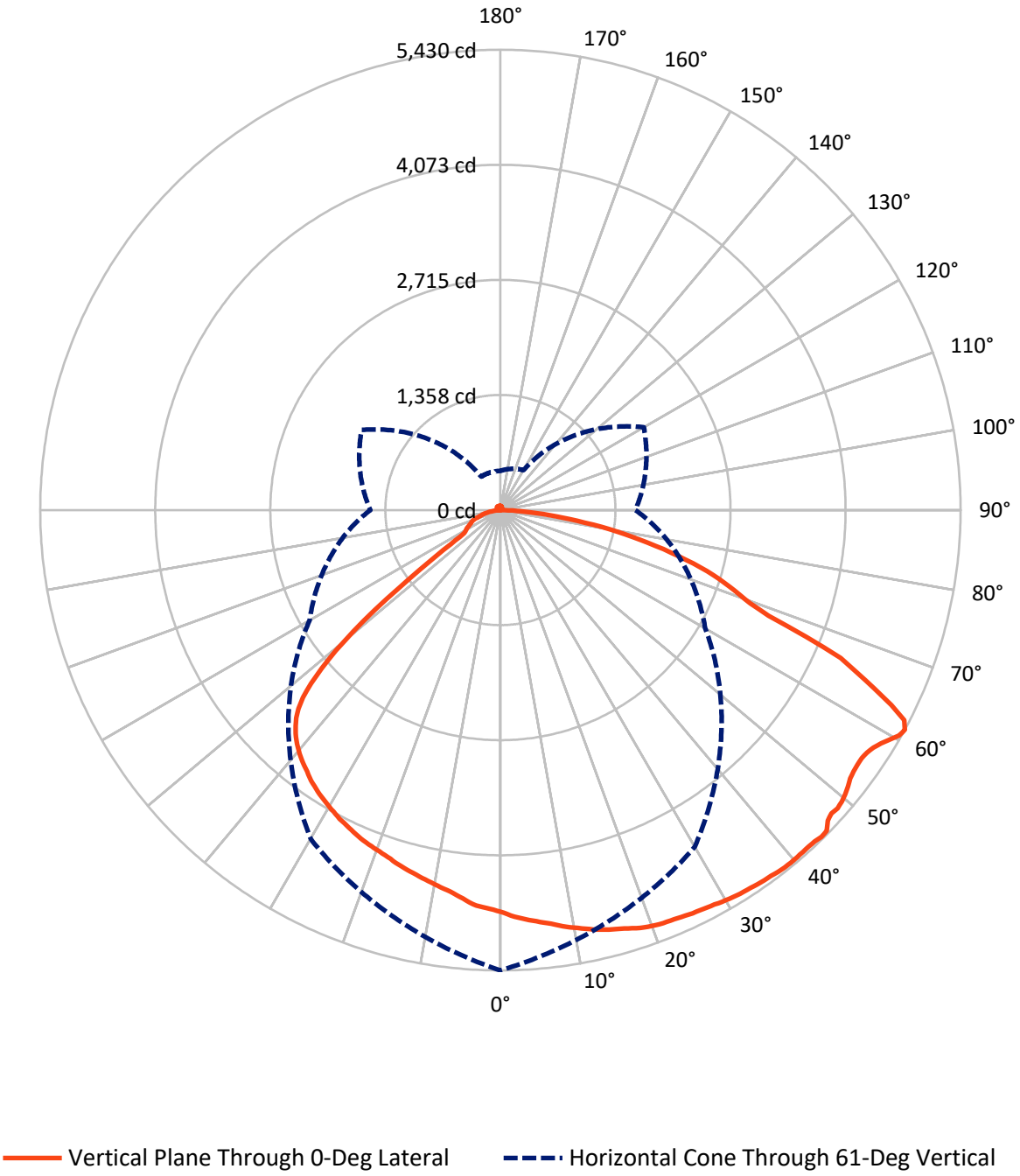
Luminous Intensity Polar Plot



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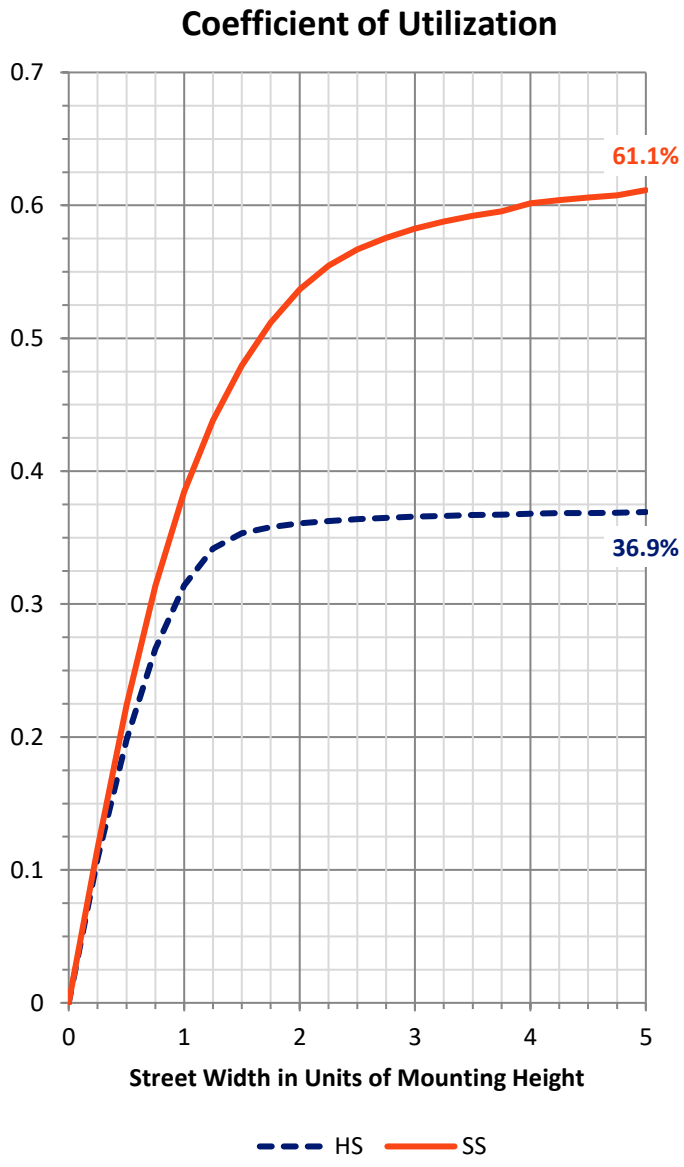
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5641.6	100.7	5742.3
	% Fixture	37.2	0.7	37.9
Street Side	Lumens	9362.7	63.1	9425.7
	% Fixture	61.7	0.4	62.1
Total	Lumens	15004.2	163.8	15168.0
	% Fixture	98.9	1.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.5	3.0
10°-20°	1313.4	8.7
20°-30°	2049.7	13.5
30°-40°	2588.6	17.1
40°-50°	2853.7	18.8
50°-60°	2578.1	17.0
60°-70°	1947.6	12.8
70°-80°	985.6	6.5
80°-90°	236.0	1.6
90°-100°	8.8	0.1
100°-110°	15.4	0.1
110°-120°	22.0	0.1
120°-130°	26.4	0.2
130°-140°	27.6	0.2
140°-150°	25.4	0.2
150°-160°	20.5	0.1
160°-170°	13.2	0.1
170°-180°	4.6	0.0
0°-90°	15004.2	98.9
0°-180°	15168.0	100.0



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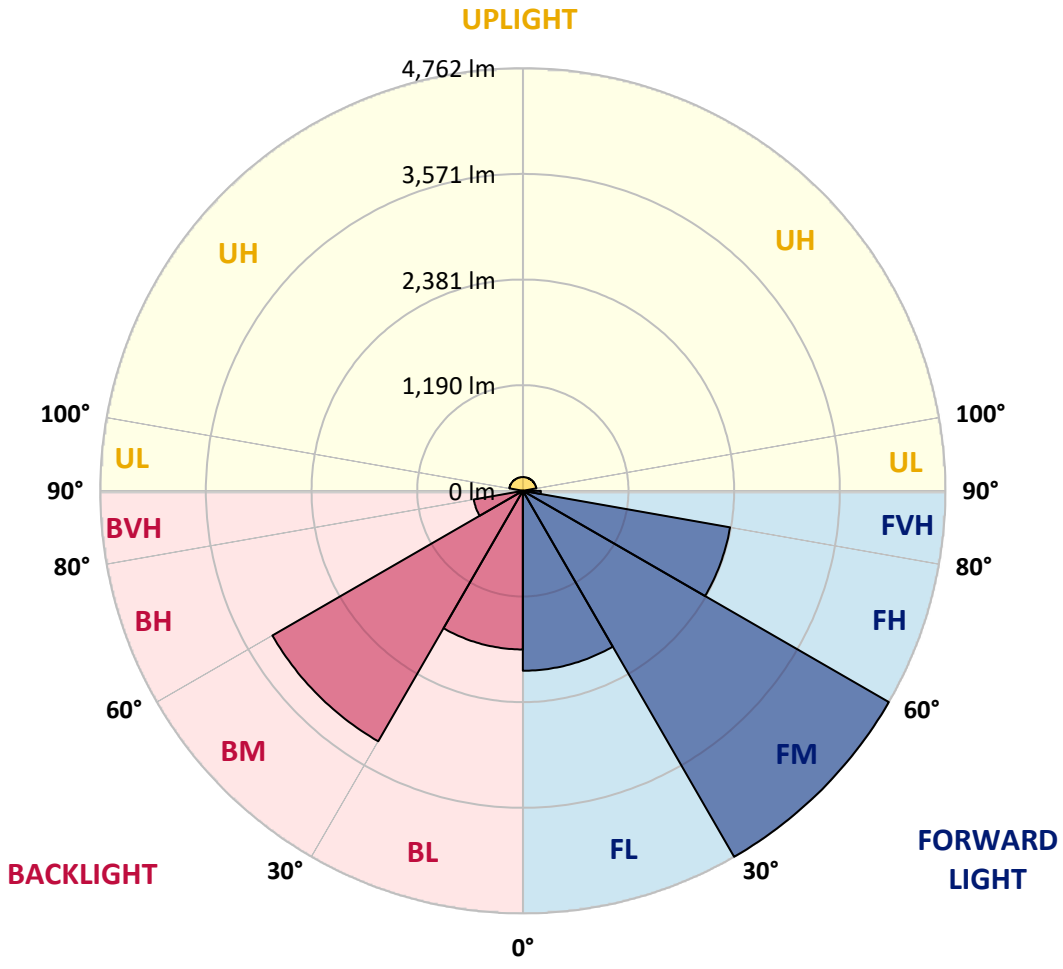
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2027.1	13.4			
FM	(30°-60°)	4761.7	31.4			
FH	(60°-80°)	2371.4	15.6			G2/5000
FVH	(80°-90°)	202.5	1.3			G2/225
BL	(0°-30°)	1787.6	11.8	B3/2500		
BM	(30°-60°)	3258.7	21.5	B3/5000		
BH	(60°-80°)	561.7	3.7	B2/1000		G2/1000
BVH	(80°-90°)	33.5	0.2			G1/100
UL	(90°-100°)	8.8	0.1		U1/10	
UH	(100°-180°)	155.0	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°	4751.1	4751.1	4751.1	4751.1	4751.1	4751.1	4751.1	4751.1	4751.1	4751.1	4751.1
1°	4787.0	4779.6	4766.1	4750.4	4745.2	4726.0	4727.1	4725.8	4739.7	4746.8	4767.2
2°	4811.7	4800.6	4773.8	4747.8	4723.9	4704.9	4705.7	4705.2	4725.3	4749.2	4769.2
3°	4835.6	4820.0	4784.0	4747.2	4709.2	4689.6	4690.1	4686.9	4700.5	4743.1	4776.1
4°	4859.5	4840.2	4791.5	4740.6	4694.0	4672.4	4675.0	4675.1	4686.0	4734.2	4784.2
5°	4881.2	4856.0	4798.1	4734.5	4676.9	4656.6	4643.9	4655.1	4669.4	4724.5	4786.4
6°	4904.5	4873.8	4807.4	4725.9	4660.0	4635.5	4602.8	4622.7	4653.2	4703.9	4797.7
7°	4931.6	4893.5	4811.7	4714.5	4645.2	4596.0	4571.1	4578.4	4636.3	4690.7	4799.8
8°	4962.8	4916.7	4815.3	4701.0	4627.1	4559.0	4539.4	4547.6	4616.0	4674.3	4801.0
9°	4989.8	4938.3	4817.8	4678.8	4606.8	4525.3	4517.1	4522.2	4593.1	4657.6	4801.4
10°	5014.6	4959.5	4819.9	4663.2	4584.3	4499.1	4493.7	4498.2	4560.5	4640.6	4799.8
11°	5040.1	4977.1	4817.6	4643.8	4557.3	4471.8	4470.4	4466.3	4526.7	4619.5	4795.2
12°	5068.8	4999.0	4812.7	4621.8	4518.9	4447.8	4448.1	4442.0	4492.5	4596.2	4791.0
13°	5089.0	5012.9	4809.7	4605.6	4484.4	4423.8	4428.0	4417.8	4456.3	4567.1	4788.3
14°	5112.4	5024.5	4807.2	4580.1	4447.0	4399.6	4405.0	4400.0	4414.5	4540.2	4776.4
15°	5127.8	5033.8	4801.2	4554.4	4410.2	4376.0	4385.0	4375.2	4378.7	4512.7	4767.6
16°	5149.1	5048.3	4798.9	4517.4	4374.7	4351.4	4362.9	4348.9	4341.9	4482.5	4756.3
17°	5171.6	5061.6	4791.0	4488.2	4337.9	4317.3	4343.2	4322.8	4307.0	4445.6	4748.9
18°	5199.5	5073.1	4779.6	4457.8	4299.5	4290.9	4314.1	4288.9	4273.8	4411.8	4735.0
19°	5215.5	5088.4	4759.3	4425.5	4263.4	4263.4	4294.3	4262.8	4237.4	4377.2	4718.5
20°	5227.9	5095.7	4742.3	4389.1	4219.3	4238.2	4273.1	4238.1	4201.4	4342.5	4688.2
21°	5238.1	5097.0	4722.8	4352.5	4180.2	4215.1	4256.2	4213.5	4152.6	4306.2	4663.9
22°	5241.3	5090.7	4700.5	4315.5	4141.4	4190.0	4240.2	4188.7	4116.0	4267.0	4636.9
23°	5249.5	5085.7	4674.3	4273.9	4098.2	4163.9	4220.5	4163.9	4076.9	4227.7	4610.1
24°	5258.3	5081.5	4648.9	4233.3	4059.0	4131.8	4199.3	4139.5	4037.8	4176.6	4584.1
25°	5269.5	5076.6	4621.3	4189.6	4017.9	4107.0	4175.3	4114.0	3996.5	4133.0	4554.6
26°	5276.4	5073.6	4594.4	4146.4	3977.2	4082.1	4152.8	4085.9	3954.8	4086.8	4521.5
27°	5286.1	5070.1	4564.4	4091.2	3934.5	4056.0	4128.2	4058.0	3915.0	4036.7	4489.3
28°	5294.5	5063.4	4530.7	4041.8	3892.7	4023.8	4107.5	4027.6	3867.6	3985.4	4449.3
29°	5310.9	5057.2	4496.0	3990.0	3849.5	3991.4	4079.6	3991.4	3824.8	3932.3	4412.4
30°	5321.5	5051.4	4450.4	3938.3	3804.2	3960.1	4054.0	3960.7	3779.7	3878.3	4373.2
31°	5331.5	5043.8	4414.0	3884.7	3749.6	3929.9	4027.9	3931.3	3734.4	3819.0	4325.0
32°	5340.9	5038.6	4376.5	3832.4	3703.3	3900.3	3999.6	3900.7	3680.8	3762.4	4285.3
33°	5346.3	5026.0	4338.8	3779.1	3657.1	3870.1	3973.6	3870.4	3635.2	3705.5	4243.3
34°	5355.8	5025.6	4299.3	3724.5	3611.0	3835.2	3943.0	3836.9	3588.0	3638.0	4199.0
35°	5363.6	5022.2	4256.7	3659.6	3561.2	3801.7	3911.5	3803.2	3539.6	3576.6	4155.1
36°	5369.9	5021.7	4211.4	3597.8	3513.9	3758.4	3878.3	3766.2	3488.0	3511.5	4105.1
37°	5382.4	5025.6	4164.5	3532.7	3462.9	3721.7	3835.8	3721.7	3435.5	3443.8	4055.7
38°	5386.7	5018.6	4106.9	3465.9	3408.5	3684.1	3801.4	3683.1	3381.4	3372.0	4005.3
39°	5389.7	5011.9	4056.5	3387.5	3345.4	3645.7	3764.7	3644.4	3327.3	3302.7	3940.8
40°	5388.2	5001.3	4005.3	3315.5	3289.4	3607.4	3724.8	3601.9	3266.8	3230.6	3886.5
41°	5385.2	4985.5	3954.8	3243.4	3235.9	3567.2	3679.8	3560.6	3212.5	3157.9	3830.8
42°	5383.7	4972.7	3897.4	3168.1	3177.3	3525.7	3630.5	3517.1	3158.3	3087.7	3774.1
43°	5388.8	4959.4	3845.5	3096.4	3122.5	3483.1	3576.0	3473.8	3103.8	3005.8	3716.1
44°	5404.9	4946.1	3793.9	3021.1	3067.5	3431.3	3509.9	3422.8	3045.4	2935.2	3662.6

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	5397.7	4936.4	3744.6	2945.5	3011.9	3385.3	3439.4	3370.7	2988.6	2862.0	3606.7
46°	5324.3	4931.2	3694.3	2858.1	2953.4	3335.6	3341.2	3312.0	2934.0	2781.2	3554.7
47°	5296.5	4930.3	3645.8	2781.3	2896.6	3272.4	3213.0	3247.8	2872.3	2705.1	3498.4
48°	5310.4	4895.5	3596.6	2703.9	2838.6	3208.8	3030.4	3169.6	2816.5	2629.1	3447.1
49°	5298.3	4806.0	3547.5	2626.6	2781.8	3140.8	2816.5	3089.9	2759.5	2555.2	3395.0
50°	5271.3	4781.7	3487.5	2544.7	2722.8	3065.8	2556.8	2983.6	2702.5	2471.5	3335.1
51°	5240.5	4779.0	3437.6	2465.9	2654.7	2960.6	2243.0	2846.2	2643.2	2390.2	3281.4
52°	5201.2	4737.4	3384.2	2387.5	2596.7	2830.8	1898.6	2662.5	2575.7	2312.4	3227.3
53°	5183.7	4690.8	3326.8	2305.7	2539.1	2670.0	1508.2	2448.6	2516.1	2231.8	3167.9
54°	5174.4	4642.6	3270.6	2214.5	2476.7	2467.9	1185.9	2186.3	2454.8	2140.5	3103.9
55°	5171.3	4602.9	3221.0	2132.9	2415.6	2188.6	919.9	1878.2	2390.1	2058.6	3048.5
56°	5187.2	4576.6	3172.1	2049.1	2352.9	1890.1	708.7	1505.0	2319.4	1975.0	2995.1
57°	5217.6	4554.8	3122.1	1953.4	2278.3	1560.4	574.8	1178.7	2247.9	1890.1	2943.4
58°	5267.5	4545.1	3055.2	1863.4	2208.0	1197.8	505.0	901.1	2170.2	1797.1	2877.7
59°	5332.8	4539.0	2942.7	1775.4	2132.0	910.5	485.0	690.1	2078.2	1707.1	2774.0
60°	5404.5	4546.8	2854.2	1687.0	2050.8	693.1	472.8	532.8	1987.8	1618.6	2672.6
61°	5430.2	4587.4	2789.7	1592.3	1953.8	544.0	462.3	455.3	1890.4	1535.0	2599.1
62°	5370.3	4657.4	2703.0	1509.4	1856.4	448.4	449.0	431.0	1790.5	1444.0	2509.3
63°	5154.3	4745.6	2594.1	1431.0	1754.3	422.3	432.2	416.6	1668.8	1367.1	2397.8
64°	4883.3	4779.6	2473.3	1351.5	1649.7	407.6	416.1	404.1	1528.9	1292.3	2278.5
65°	4623.9	4657.3	2363.5	1263.5	1520.5	394.0	402.4	388.5	1358.3	1217.5	2160.1
66°	4377.0	4378.2	2251.5	1184.8	1372.6	377.5	388.0	371.4	1146.6	1135.0	2031.9
67°	3901.8	4048.3	2127.8	1107.8	1192.4	360.6	375.5	352.6	870.3	1057.8	1916.4
68°	3398.8	3753.5	2033.6	1020.6	937.8	343.3	365.5	335.8	626.4	977.8	1809.7
69°	3148.2	3269.3	1957.2	938.2	682.9	324.6	355.3	319.2	439.0	889.2	1708.2
70°	2995.0	2852.5	1905.2	853.2	476.8	307.6	341.8	304.5	328.2	807.3	1635.2
71°	2854.3	2658.1	1912.9	760.1	337.9	293.6	324.1	292.3	284.8	725.8	1600.9
72°	2706.7	2542.5	2215.6	677.9	288.5	281.5	299.4	278.1	267.9	646.3	1735.5
73°	2545.5	2427.1	2579.2	600.4	268.6	265.6	276.3	261.2	250.1	561.4	2264.4
74°	2358.9	2305.6	1996.5	527.9	249.7	248.1	253.8	245.1	231.0	488.7	1915.8
75°	2169.2	2184.0	1271.0	452.9	229.0	231.7	232.5	223.5	215.3	420.6	1158.1
76°	1979.5	2045.2	1057.8	389.1	211.8	210.7	218.5	202.7	199.5	358.5	905.4
77°	1779.0	1894.2	938.3	331.6	194.8	190.5	205.8	180.3	183.9	303.5	790.0
78°	1593.2	1748.7	933.6	277.9	178.5	167.5	192.9	159.4	168.8	250.5	765.5
79°	1401.9	1630.4	926.9	226.6	160.8	147.7	168.8	144.9	154.0	206.5	815.6
80°	1213.4	1509.4	720.9	185.3	146.3	132.5	150.0	131.7	140.2	166.8	598.2
81°	1007.9	1356.9	485.0	150.0	132.4	119.2	133.5	118.1	123.1	131.5	390.2
82°	826.2	1172.1	405.3	117.6	113.1	106.2	110.7	102.4	105.6	98.5	324.7
83°	657.5	976.1	357.5	86.7	95.4	90.0	85.2	88.4	86.3	75.7	290.9
84°	509.3	842.6	313.3	64.8	77.1	75.2	63.8	74.0	70.0	58.0	256.1
85°	358.9	713.5	267.4	47.7	60.9	61.2	51.7	55.7	54.0	42.6	218.6
86°	243.0	514.3	222.7	33.2	44.8	43.7	33.2	39.6	42.9	29.0	174.3
87°	143.9	351.3	158.3	20.2	32.6	26.7	21.2	25.7	29.9	18.9	121.3
88°	48.3	134.7	63.7	10.5	19.4	14.7	16.0	17.0	18.3	10.9	38.9
89°	4.0	2.8	3.7	4.3	8.5	8.4	13.8	13.9	10.1	5.7	4.4

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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°	1.4	1.3	1.6	1.9	4.0	6.0	14.4	13.9	9.3	4.7	4.1
91°	1.3	1.3	1.8	2.4	4.3	6.2	15.8	15.2	9.9	5.1	4.6
92°	1.6	1.6	1.8	2.0	5.0	7.1	17.2	16.2	10.8	5.6	4.8
93°	1.8	1.7	2.0	2.5	5.3	7.9	18.4	17.4	11.6	6.0	5.3
94°	1.8	1.7	2.3	2.8	5.7	8.6	19.6	18.6	12.3	6.3	5.5
95°	1.8	1.8	2.6	3.1	6.3	9.7	21.1	19.6	13.0	6.9	6.1
96°	1.7	1.7	2.6	3.3	6.7	10.3	22.6	21.0	13.8	7.7	6.6
97°	2.2	1.9	3.0	3.8	7.4	11.5	24.1	21.9	14.8	8.1	7.2
98°	2.0	2.0	3.2	4.1	8.1	12.3	25.1	23.1	15.7	8.7	7.7
99°	2.2	2.3	3.7	4.4	8.6	13.3	26.5	24.3	16.3	9.3	8.4
100°	2.2	2.4	4.0	4.7	9.5	14.0	27.9	25.5	17.5	10.1	8.9
101°	2.4	2.8	4.4	5.3	9.8	15.0	29.2	26.7	18.3	10.8	9.5
102°	2.5	3.0	4.7	5.7	10.7	16.0	30.4	27.7	19.3	11.4	9.9
103°	2.6	3.2	5.0	6.5	11.3	16.8	31.8	28.9	20.0	12.2	10.8
104°	3.0	3.5	5.6	6.7	12.1	17.8	32.8	29.8	21.0	12.9	11.4
105°	3.3	3.7	6.1	7.2	12.8	19.0	34.0	31.0	21.9	13.5	12.2
106°	3.3	4.4	6.5	7.8	13.5	19.8	35.4	32.1	22.5	14.4	12.8
107°	3.7	4.7	6.9	8.4	14.1	21.0	36.6	33.4	23.5	15.0	13.5
108°	4.3	5.3	7.8	9.0	15.1	22.2	37.6	34.5	24.1	15.8	14.1
109°	4.7	5.7	8.1	9.6	15.7	23.1	38.7	35.4	25.1	16.8	15.2
110°	5.0	6.5	9.1	10.2	16.4	24.2	39.9	36.6	26.0	17.5	15.9
111°	5.5	7.1	9.6	10.8	17.2	25.3	40.8	37.6	27.1	18.4	16.5
112°	6.3	7.5	9.9	11.4	17.8	26.2	42.3	38.3	27.8	18.9	17.4
113°	6.8	8.1	10.7	12.0	18.7	26.9	42.7	39.1	28.5	20.1	18.3
114°	7.3	9.0	11.3	12.7	19.6	27.9	43.6	40.0	29.3	20.6	18.8
115°	7.8	9.6	11.7	13.5	20.5	29.0	44.7	40.7	30.2	21.5	19.6
116°	8.6	10.3	12.6	13.9	21.2	29.8	45.4	41.4	31.1	22.5	20.5
117°	9.5	10.9	13.2	14.7	22.0	30.8	46.0	42.3	32.0	23.2	21.0
118°	9.9	11.6	13.8	15.6	22.7	31.5	46.7	42.5	32.3	23.8	22.0
119°	11.0	12.5	14.4	16.2	23.6	32.0	47.3	43.0	33.3	24.8	22.7
120°	11.9	13.3	15.1	17.0	24.2	33.2	47.8	43.8	34.0	25.6	23.5
121°	12.6	14.3	15.7	17.7	25.1	34.0	48.1	44.3	34.6	26.5	24.3
122°	13.5	14.8	16.4	18.4	26.0	34.5	48.4	44.9	35.4	27.1	24.9
123°	14.3	15.8	17.2	18.9	26.8	35.6	48.8	45.4	35.9	27.9	25.7
124°	15.4	16.5	17.8	19.6	27.5	36.4	49.4	45.9	36.5	28.7	26.5
125°	16.4	17.5	18.6	20.6	28.4	37.0	49.8	46.3	37.2	29.3	27.4
126°	17.2	18.3	19.3	21.4	29.1	37.7	50.1	46.6	37.8	30.2	28.1
127°	18.1	18.9	20.0	22.2	29.7	38.4	50.3	46.9	38.4	30.8	29.0
128°	18.7	19.8	20.8	22.7	30.5	39.1	50.5	47.4	39.0	31.5	29.6
129°	19.9	20.4	21.5	23.5	31.1	39.7	50.8	47.7	39.5	32.2	30.4
130°	20.7	21.1	22.3	24.1	31.8	40.5	51.0	47.9	40.0	32.7	31.1
131°	21.3	21.7	22.9	24.9	32.4	41.2	51.0	48.4	40.6	33.6	31.6
132°	22.2	22.5	23.7	25.6	33.2	41.7	51.2	48.7	40.8	34.1	32.1
133°	22.9	23.3	24.2	26.6	33.9	42.3	51.5	49.0	41.2	35.0	32.8
134°	23.7	24.1	25.0	27.1	34.7	43.1	51.6	49.1	41.8	35.6	33.8

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

Scaled Data Report

REPORT NUMBER: P1449839
CATALOG NUMBER: TWC100_T4_100W_3000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
135°	24.3	24.8	25.7	27.9	35.2	43.7	52.0	49.2	42.4	36.2	34.5
136°	25.0	25.5	26.6	28.5	35.8	44.2	52.0	49.6	42.6	36.6	34.8
137°	25.7	26.1	27.2	29.3	36.3	44.8	51.8	49.8	43.1	37.2	35.6
138°	26.5	27.1	28.0	29.9	36.5	45.0	51.8	49.6	43.3	38.0	36.2
139°	27.1	27.5	28.6	30.9	37.2	45.4	52.0	49.8	43.7	38.6	36.5
140°	27.7	28.3	29.4	31.5	37.7	45.7	52.1	50.1	44.1	39.0	37.2
141°	28.4	29.1	30.1	31.8	38.2	46.0	51.7	50.1	44.5	39.6	37.7
142°	29.1	29.3	31.0	32.6	38.7	46.6	51.8	49.9	44.9	40.0	38.2
143°	29.6	30.4	31.8	33.3	39.3	46.7	51.8	50.1	45.0	40.5	38.6
144°	30.3	30.9	32.1	33.9	40.0	46.9	51.7	50.1	45.5	41.2	39.1
145°	31.4	32.0	33.0	34.5	40.0	46.9	51.6	50.1	45.9	41.3	39.6
146°	32.0	32.8	33.6	35.0	40.6	47.2	51.7	50.4	46.1	42.0	40.2
147°	32.8	33.3	34.4	35.4	41.1	47.4	51.6	50.2	46.5	42.6	40.9
148°	33.8	34.5	34.7	36.3	41.5	47.4	51.5	50.2	46.8	42.9	41.3
149°	34.6	34.7	35.6	36.9	42.0	47.5	51.7	50.5	46.9	43.2	41.5
150°	35.4	35.6	36.0	37.4	42.5	48.0	51.5	50.6	47.3	43.8	42.0
151°	36.2	36.4	36.6	38.0	42.9	48.0	51.6	50.6	47.5	44.3	42.5
152°	37.1	37.0	37.1	38.6	43.3	48.4	51.4	50.5	47.7	44.7	43.1
153°	37.5	37.6	37.5	39.0	43.5	48.3	51.1	50.5	48.1	45.1	43.3
154°	38.3	38.3	38.3	39.5	43.9	48.4	51.2	50.6	48.1	45.1	43.6
155°	39.0	38.6	38.9	40.1	44.2	48.6	51.2	50.5	48.5	45.7	43.9
156°	39.7	39.3	39.4	40.6	44.7	48.7	50.9	50.5	48.6	46.0	44.3
157°	40.0	39.6	39.9	41.1	44.9	49.0	50.6	50.4	48.5	46.2	44.8
158°	40.5	40.1	40.2	41.7	45.5	49.2	50.6	50.4	48.6	46.6	45.1
159°	40.9	40.5	40.8	42.1	45.7	49.2	50.5	50.3	48.8	46.9	45.5
160°	41.4	40.8	41.1	42.4	46.2	49.2	50.4	50.4	49.0	47.1	45.7
161°	41.9	41.3	41.5	43.0	46.3	49.4	50.2	50.1	49.1	47.4	46.0
162°	42.3	41.7	42.3	43.3	46.7	49.4	49.9	50.2	49.2	47.4	46.3
163°	42.4	42.0	42.4	43.9	46.9	49.6	49.9	50.2	49.1	47.8	46.6
164°	42.9	42.1	42.7	44.4	47.4	49.6	49.9	49.9	49.3	47.9	46.9
165°	43.3	43.1	43.5	44.7	47.7	49.9	49.7	49.9	49.3	48.1	47.2
166°	43.6	43.2	43.8	45.0	47.7	49.8	49.7	49.8	49.4	48.3	47.3
167°	43.9	43.9	44.2	45.5	48.0	49.9	49.6	49.9	49.4	48.4	47.5
168°	44.2	44.2	44.8	45.6	48.3	49.9	49.4	49.7	49.4	48.6	48.0
169°	44.7	44.7	45.1	46.2	48.6	50.1	49.6	49.7	49.4	48.8	48.0
170°	44.9	44.8	45.5	46.7	48.6	49.9	49.4	49.8	49.7	49.1	48.4
171°	45.4	45.3	46.0	47.1	48.8	50.1	49.8	49.7	49.4	49.2	48.5
172°	46.0	45.6	46.2	47.4	49.0	49.9	49.4	49.6	49.4	49.4	48.6
173°	46.5	46.0	46.5	47.9	49.1	49.8	49.8	49.9	49.4	49.6	48.8
174°	46.8	46.3	46.9	48.1	49.2	50.1	49.7	49.7	49.3	49.8	49.2
175°	47.3	46.7	47.7	48.3	49.7	50.1	49.6	49.2	49.4	49.7	49.3
176°	47.8	47.3	47.5	48.8	49.7	50.3	49.6	49.4	49.3	49.6	49.6
177°	48.0	47.5	48.1	49.1	49.7	50.2	49.4	49.1	49.2	49.7	49.7
178°	48.4	48.0	48.3	49.1	50.1	50.2	49.3	48.8	49.3	49.8	49.7
179°	48.6	48.3	48.6	49.3	49.9	49.9	49.3	49.0	49.2	49.9	49.7

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

Scaled Data Report

REPORT NUMBER: P1449839
CATALOG NUMBER: TWC100_T4_100W_3000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
180°	*49.3*	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3

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Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1449839
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CANDELA DISTRIBUTION (continued):

	330°	360°
0°	4751.1	4751.1
1°	4775.2	4787.0
2°	4794.6	4811.7
3°	4815.3	4835.6
4°	4833.4	4859.5
5°	4851.4	4881.2
6°	4871.2	4904.5
7°	4889.9	4931.6
8°	4909.1	4962.8
9°	4928.3	4989.8
10°	4945.0	5014.6
11°	4961.9	5040.1
12°	4983.9	5068.8
13°	4995.8	5089.0
14°	5008.7	5112.4
15°	5011.3	5127.8
16°	5023.3	5149.1
17°	5036.3	5171.6
18°	5042.6	5199.5
19°	5053.5	5215.5
20°	5057.4	5227.9
21°	5055.3	5238.1
22°	5050.0	5241.3
23°	5044.4	5249.5
24°	5037.5	5258.3
25°	5031.8	5269.5
26°	5022.6	5276.4
27°	5014.6	5286.1
28°	5007.0	5294.5
29°	4996.2	5310.9
30°	4995.3	5321.5
31°	4987.0	5331.5
32°	4980.3	5340.9
33°	4974.1	5346.3
34°	4962.1	5355.8
35°	4958.9	5363.6
36°	4956.0	5369.9
37°	4954.2	5382.4
38°	4943.7	5386.7
39°	4935.5	5389.7
40°	4923.1	5388.2
41°	4908.6	5385.2
42°	4893.6	5383.7
43°	4879.3	5388.8
44°	4864.1	5404.9

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1449839
CATALOG NUMBER: TWC100_T4_100W_3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	4847.5	5397.7
46°	4842.3	5324.3
47°	4833.4	5296.5
48°	4769.1	5310.4
49°	4698.0	5298.3
50°	4687.1	5271.3
51°	4671.1	5240.5
52°	4633.7	5201.2
53°	4574.2	5183.7
54°	4525.8	5174.4
55°	4484.3	5171.3
56°	4452.4	5187.2
57°	4429.8	5217.6
58°	4418.4	5267.5
59°	4409.2	5332.8
60°	4424.8	5404.5
61°	*4478.2*	*5430.2*
62°	4555.6	5370.3
63°	4628.8	5154.3
64°	4618.1	4883.3
65°	4411.0	4623.9
66°	4107.4	4377.0
67°	3829.3	3901.8
68°	3447.7	3398.8
69°	2940.4	3148.2
70°	2658.2	2995.0
71°	2525.4	2854.3
72°	2394.8	2706.7
73°	2280.3	2545.5
74°	2164.0	2358.9
75°	2038.5	2169.2
76°	1875.3	1979.5
77°	1735.1	1779.0
78°	1614.6	1593.2
79°	1500.2	1401.9
80°	1368.1	1213.4
81°	1228.5	1007.9
82°	1032.6	826.2
83°	860.8	657.5
84°	731.3	509.3
85°	558.3	358.9
86°	420.2	243.0
87°	231.7	143.9
88°	13.5	48.3
89°	2.2	4.0

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

REPORT NUMBER: P1449839
CATALOG NUMBER: TWC100_T4_100W_3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
90°	2.4	1.4
91°	2.5	1.3
92°	2.6	1.6
93°	3.1	1.8
94°	3.1	1.8
95°	3.6	1.8
96°	4.2	1.7
97°	4.3	2.2
98°	4.9	2.0
99°	5.5	2.2
100°	6.0	2.2
101°	6.6	2.4
102°	7.3	2.5
103°	8.0	2.6
104°	8.6	3.0
105°	9.2	3.3
106°	9.9	3.3
107°	10.9	3.7
108°	11.5	4.3
109°	12.2	4.7
110°	13.2	5.0
111°	14.0	5.5
112°	14.7	6.3
113°	15.8	6.8
114°	16.6	7.3
115°	17.7	7.8
116°	18.6	8.6
117°	19.5	9.5
118°	20.2	9.9
119°	21.2	11.0
120°	22.3	11.9
121°	23.2	12.6
122°	24.1	13.5
123°	24.9	14.3
124°	25.9	15.4
125°	26.7	16.4
126°	27.4	17.2
127°	28.1	18.1
128°	29.0	18.7
129°	29.6	19.9
130°	30.4	20.7
131°	31.1	21.3
132°	32.0	22.2
133°	32.2	22.9
134°	33.0	23.7

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

REPORT NUMBER: P1449839
CATALOG NUMBER: TWC100_T4_100W_3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
135°	33.8	24.3
136°	34.2	25.0
137°	34.7	25.7
138°	35.6	26.5
139°	36.2	27.1
140°	36.9	27.7
141°	37.1	28.4
142°	37.7	29.1
143°	38.2	29.6
144°	38.9	30.3
145°	39.4	31.4
146°	39.7	32.0
147°	40.0	32.8
148°	40.5	33.8
149°	40.8	34.6
150°	41.4	35.4
151°	41.7	36.2
152°	42.1	37.1
153°	42.4	37.5
154°	42.6	38.3
155°	43.0	39.0
156°	43.2	39.7
157°	43.6	40.0
158°	43.9	40.5
159°	44.2	40.9
160°	44.5	41.4
161°	44.5	41.9
162°	45.0	42.3
163°	45.4	42.4
164°	45.6	42.9
165°	46.0	43.3
166°	46.2	43.6
167°	46.3	43.9
168°	46.7	44.2
169°	47.1	44.7
170°	47.2	44.9
171°	47.8	45.4
172°	47.8	46.0
173°	48.1	46.5
174°	48.6	46.8
175°	48.7	47.3
176°	49.0	47.8
177°	49.3	48.0
178°	49.8	48.4
179°	49.9	48.6

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

REPORT NUMBER: P1449839
CATALOG NUMBER: TWC100_T4_100W_3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
180°	49.3	49.3

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: SP1-2601-659-1

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

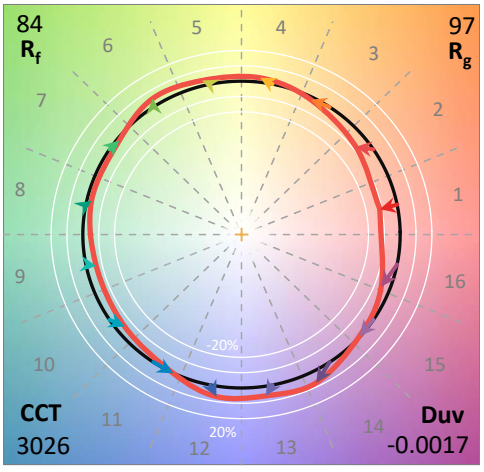
Test Information

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



Test Conditions

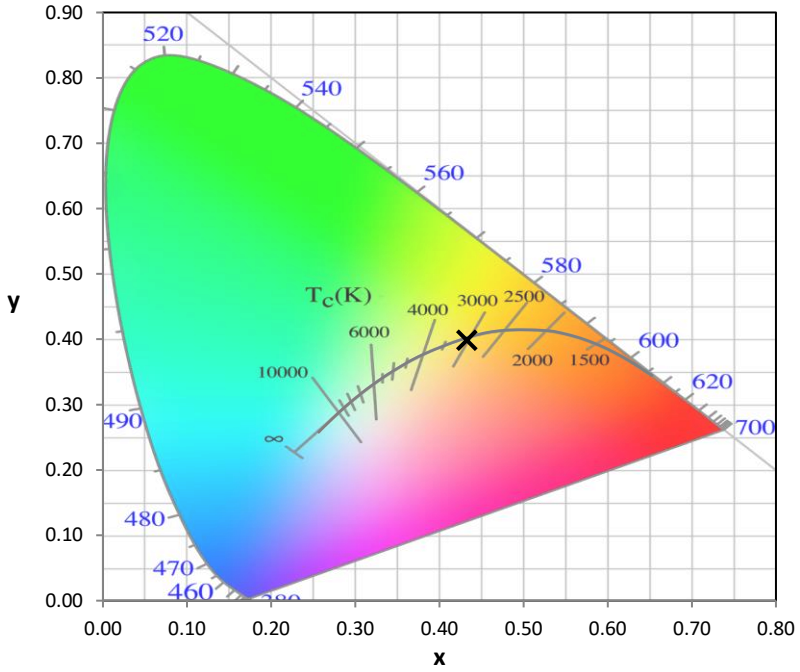
Stabilization Time:	64M
Operation Time:	2H 4M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2601-659-1

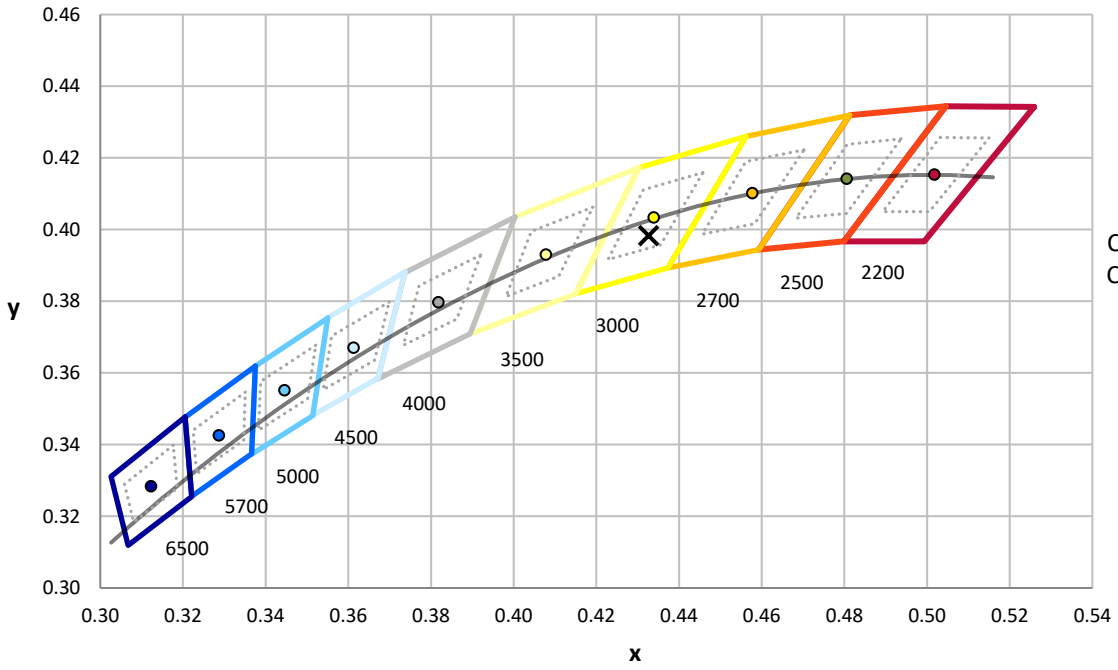
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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

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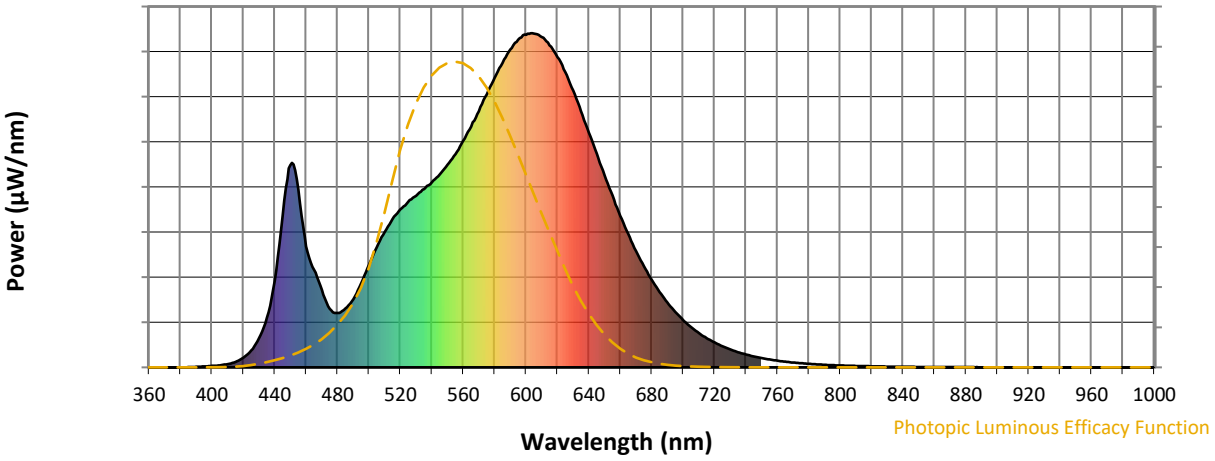
Photopic Flux vs. Wavelength



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	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			

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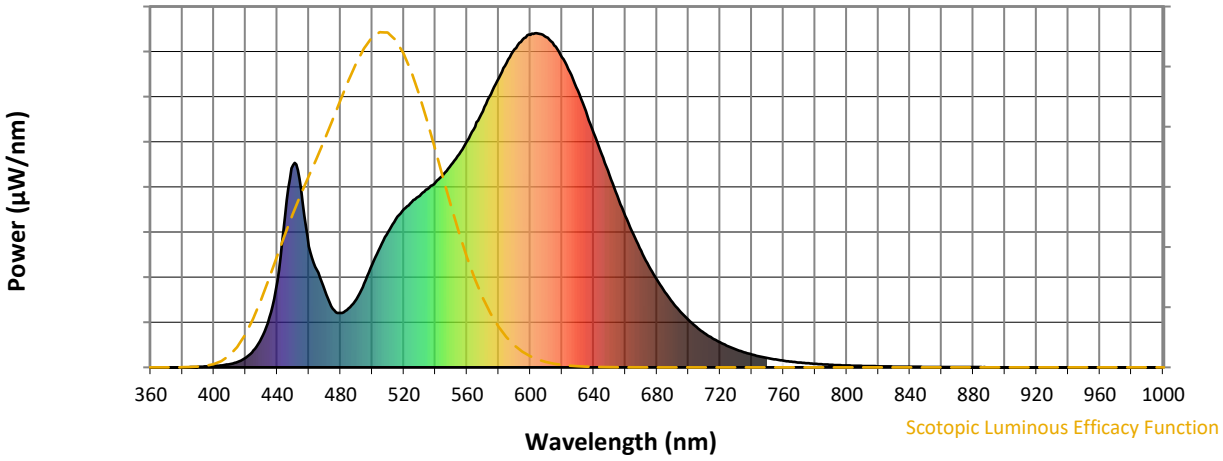
Scotopic Flux vs. Wavelength



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			

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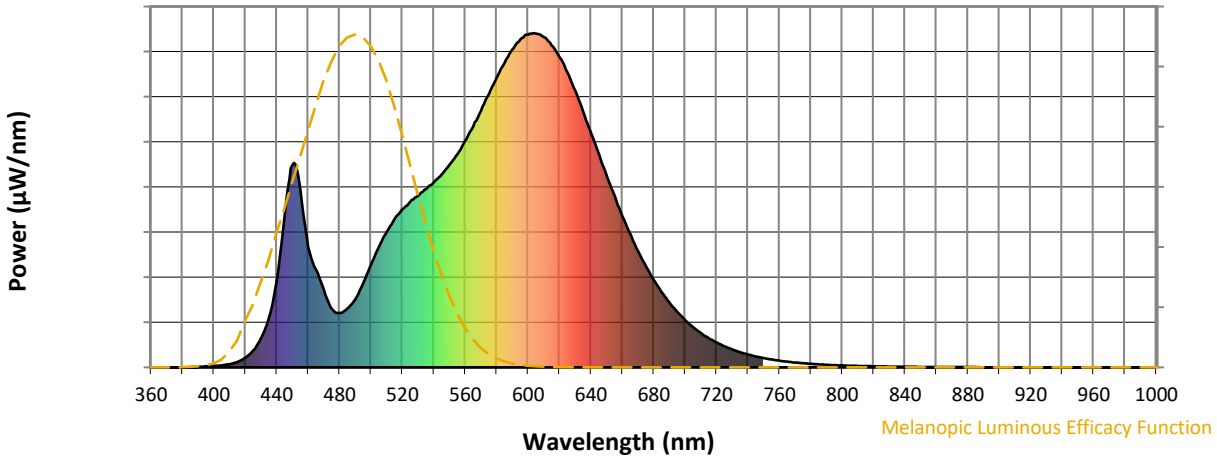
Melanopic Flux vs. Wavelength



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			

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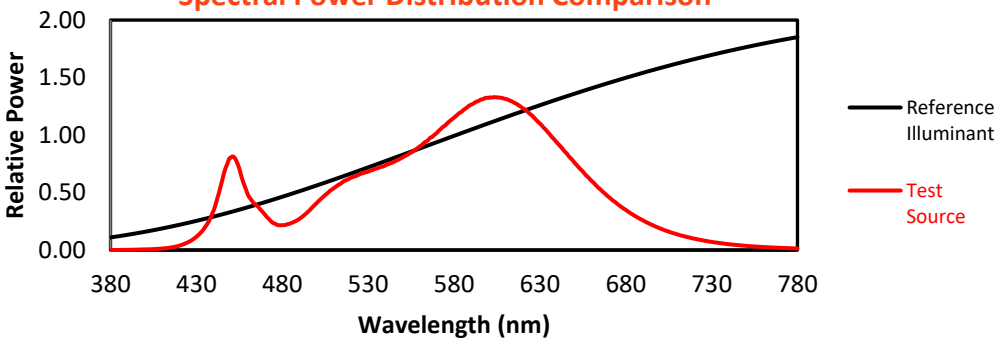
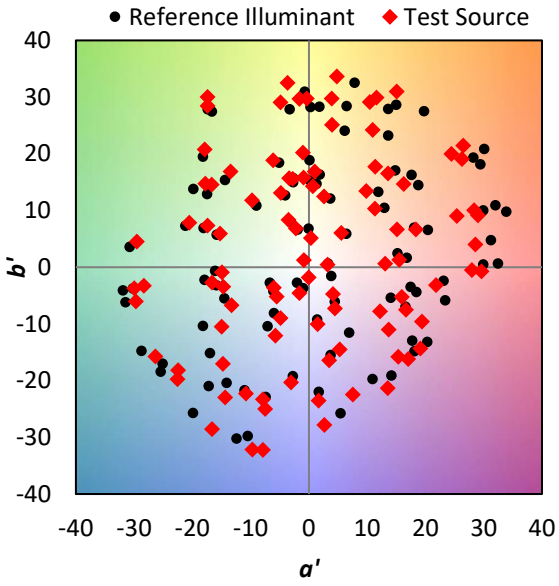
Summary

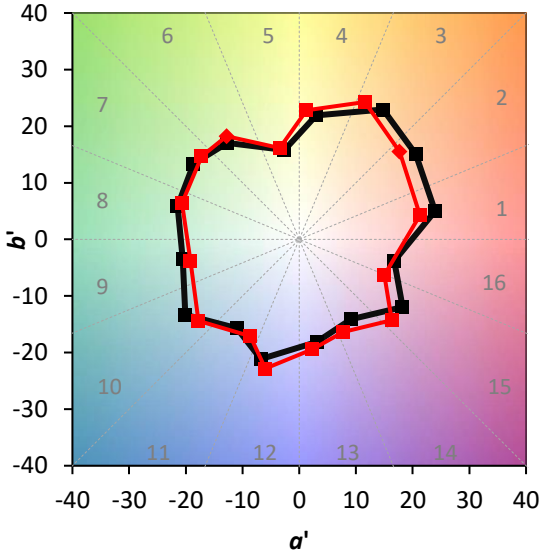
R_f = 84
R_g = 97.4
CIE R_a = 82.7
R_9 = 7.5

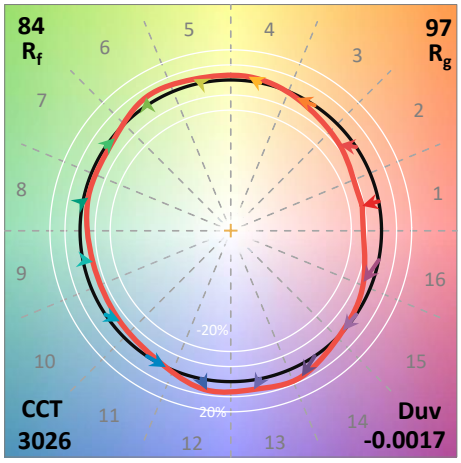
Spectral Power Distribution Comparison

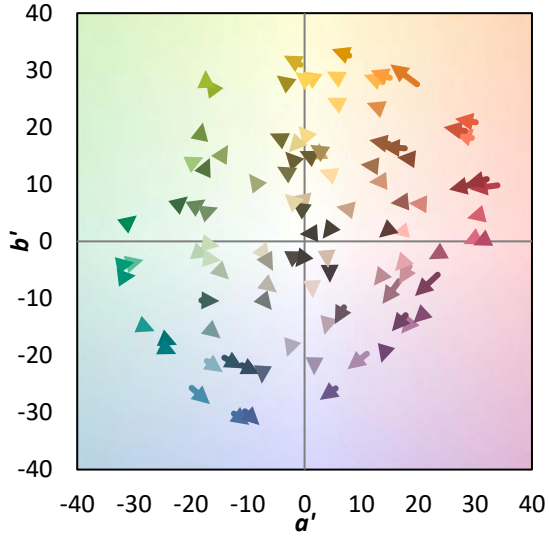


Color Vector Graphics









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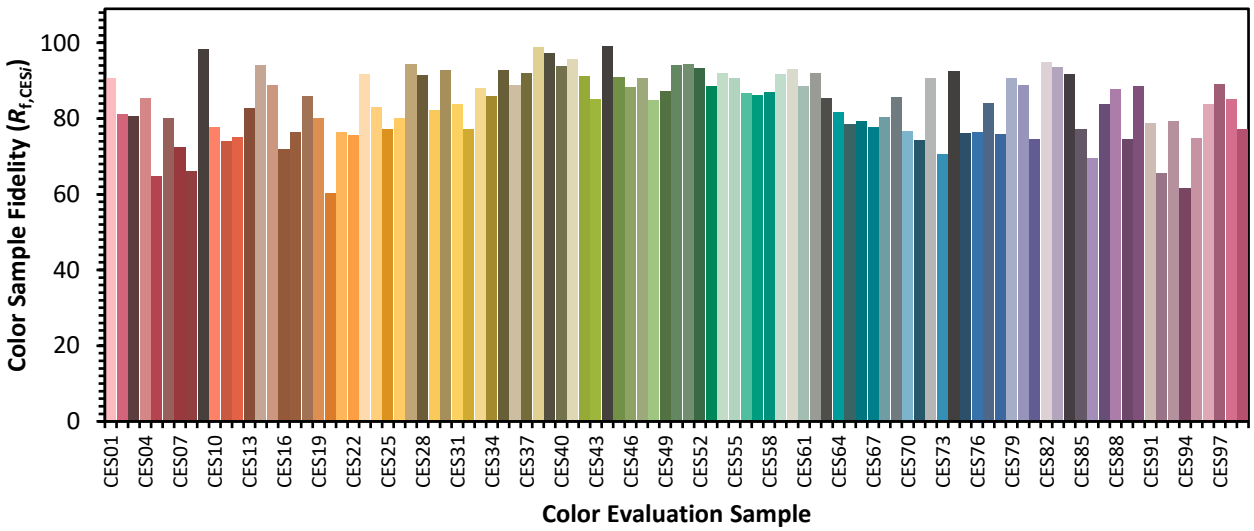
Individual Sample Fidelity Index ($R_{f,i}$)

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	



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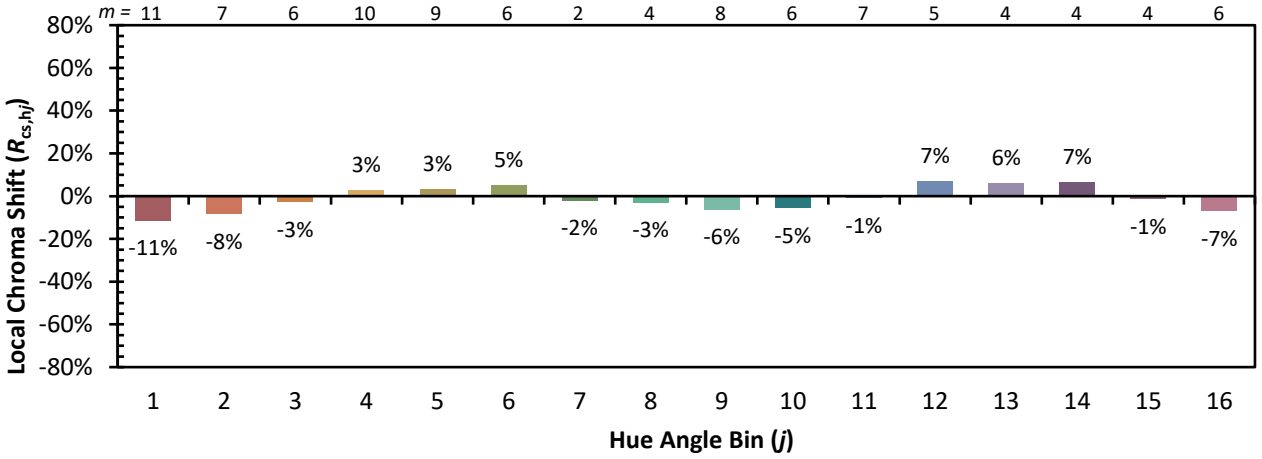
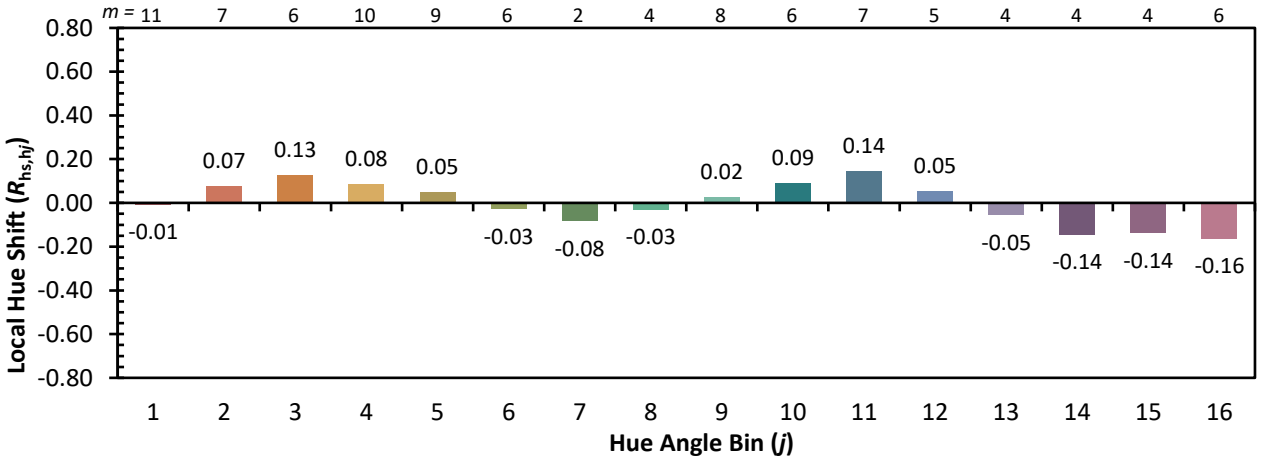
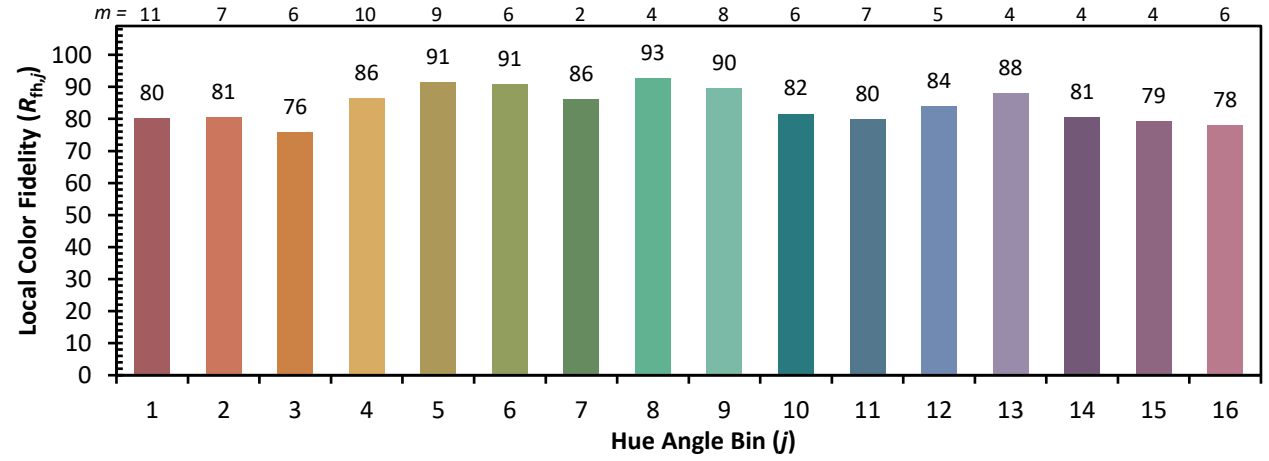
Color Rendition by Hue-Angle Bin







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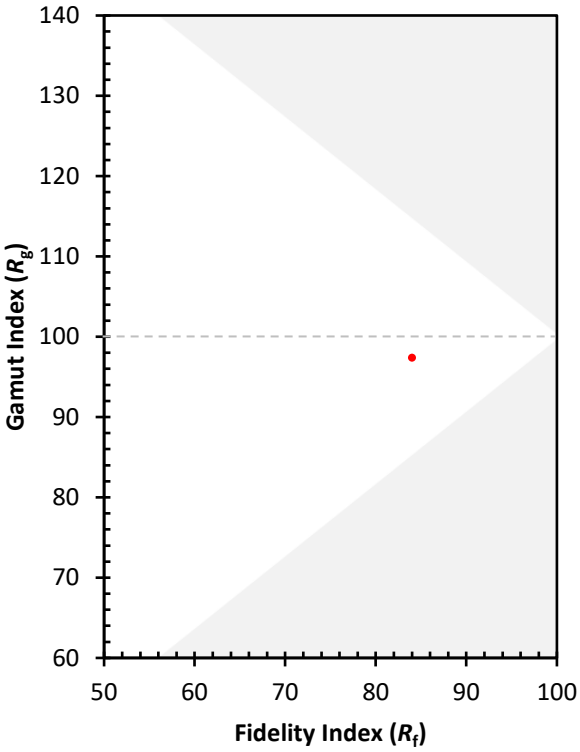
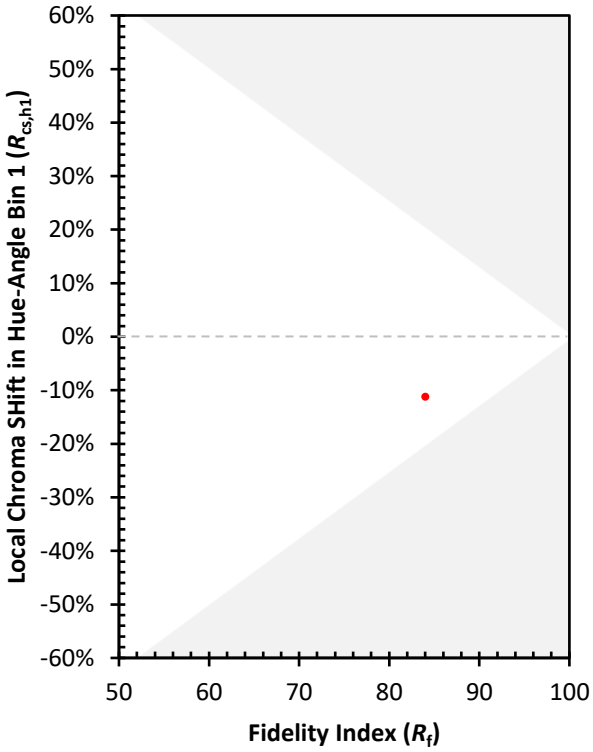
Measure Comparisons





(END OF REPORT)