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: P1449820

Luminaire Tested: **TWC100_T2_40W_5000K**

Issue Date: 5/19/2026

Report Generated By 670246072

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1449820
	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_40W_5000K
Description:	Tapered Wall Cutoff Wall Mount Luminaire at, T2 distribution, 40W 5000K settings
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	13606 lumens
Efficiency:	N/A
Efficacy:	173.3 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):	78.5
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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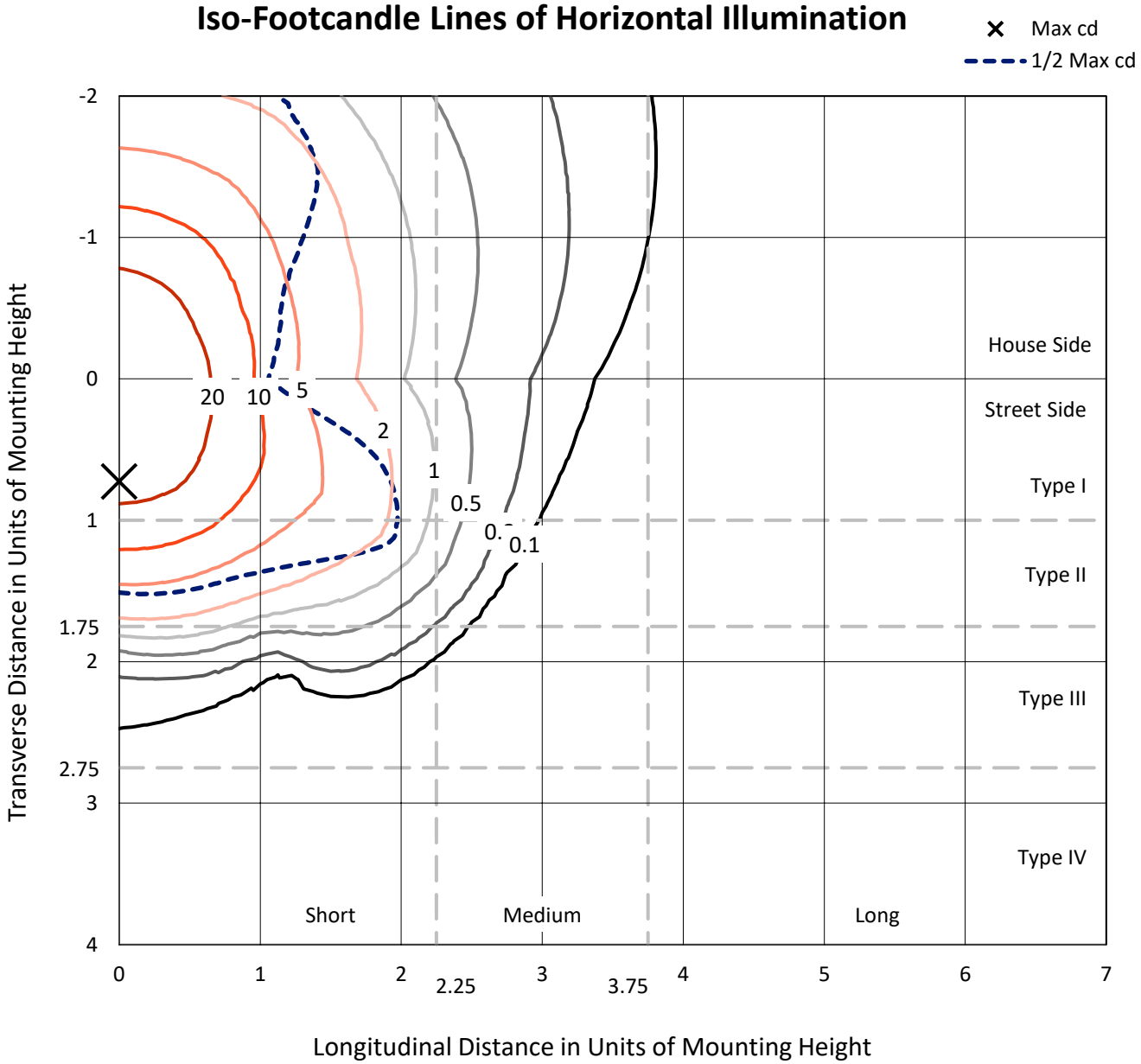
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 39.8 fc
Type II - Short - N/A

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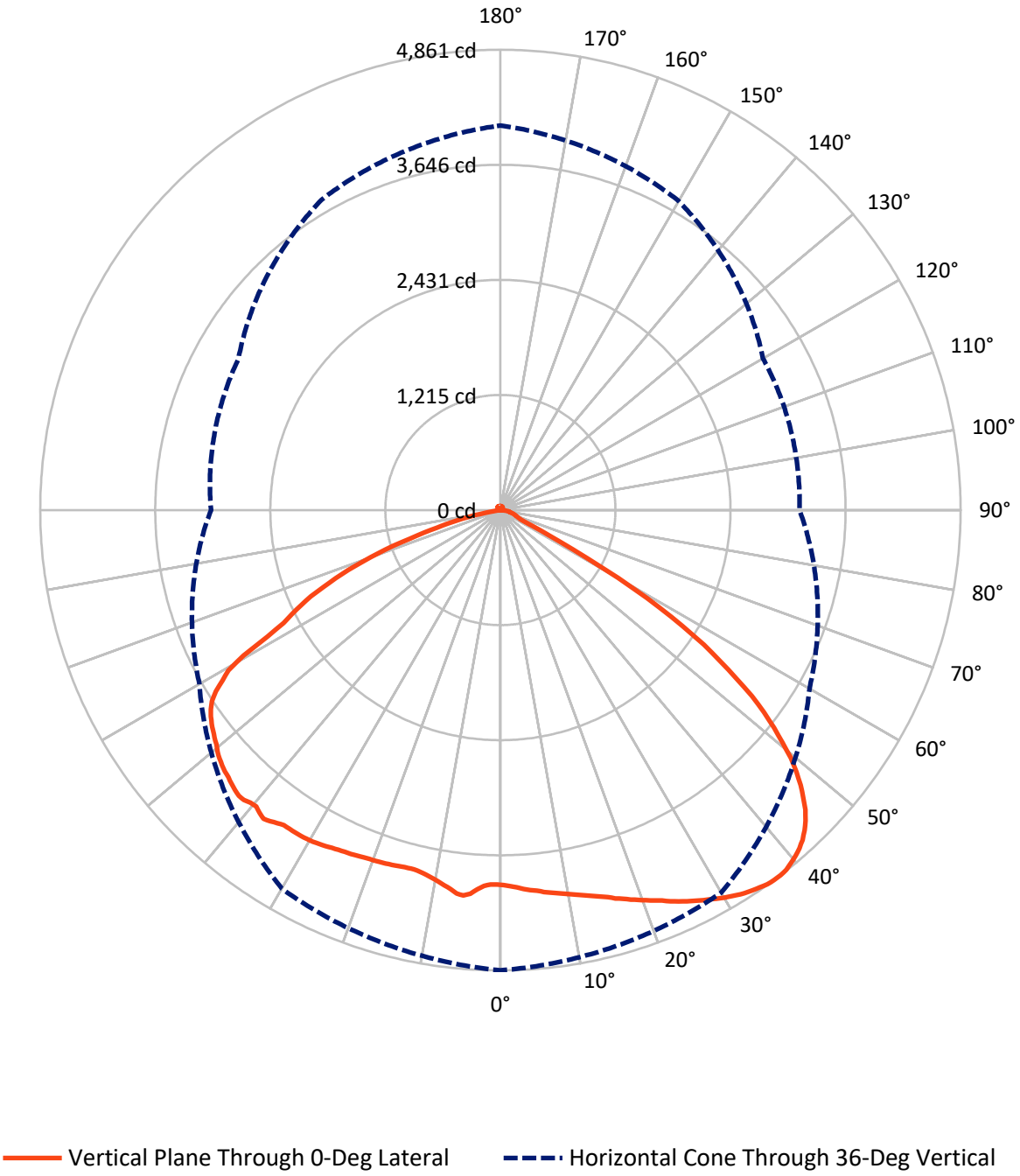
Luminous Intensity Polar Plot



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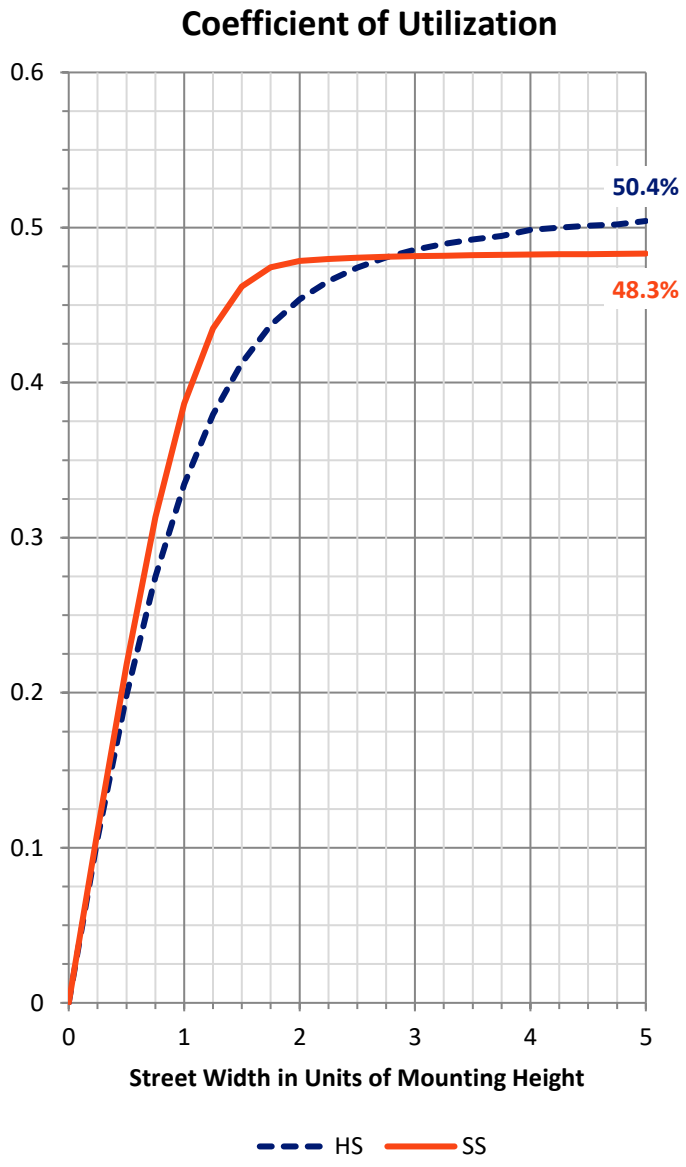
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6887.1	73.4	6960.5
	% Fixture	50.6	0.5	51.2
Street Side	Lumens	6572.1	73.4	6645.5
	% Fixture	48.3	0.5	48.8
Total	Lumens	13459.2	146.8	13606.0
	% Fixture	98.9	1.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.5	2.8
10°-20°	1122.6	8.3
20°-30°	1812.6	13.3
30°-40°	2402.4	17.7
40°-50°	2750.7	20.2
50°-60°	2608.1	19.2
60°-70°	1632.6	12.0
70°-80°	622.0	4.6
80°-90°	126.6	0.9
90°-100°	6.4	0.0
100°-110°	12.9	0.1
110°-120°	19.9	0.1
120°-130°	24.6	0.2
130°-140°	25.7	0.2
140°-150°	23.4	0.2
150°-160°	18.4	0.1
160°-170°	11.6	0.1
170°-180°	4.0	0.0
0°-90°	13459.2	98.9
0°-180°	13606.0	100.0



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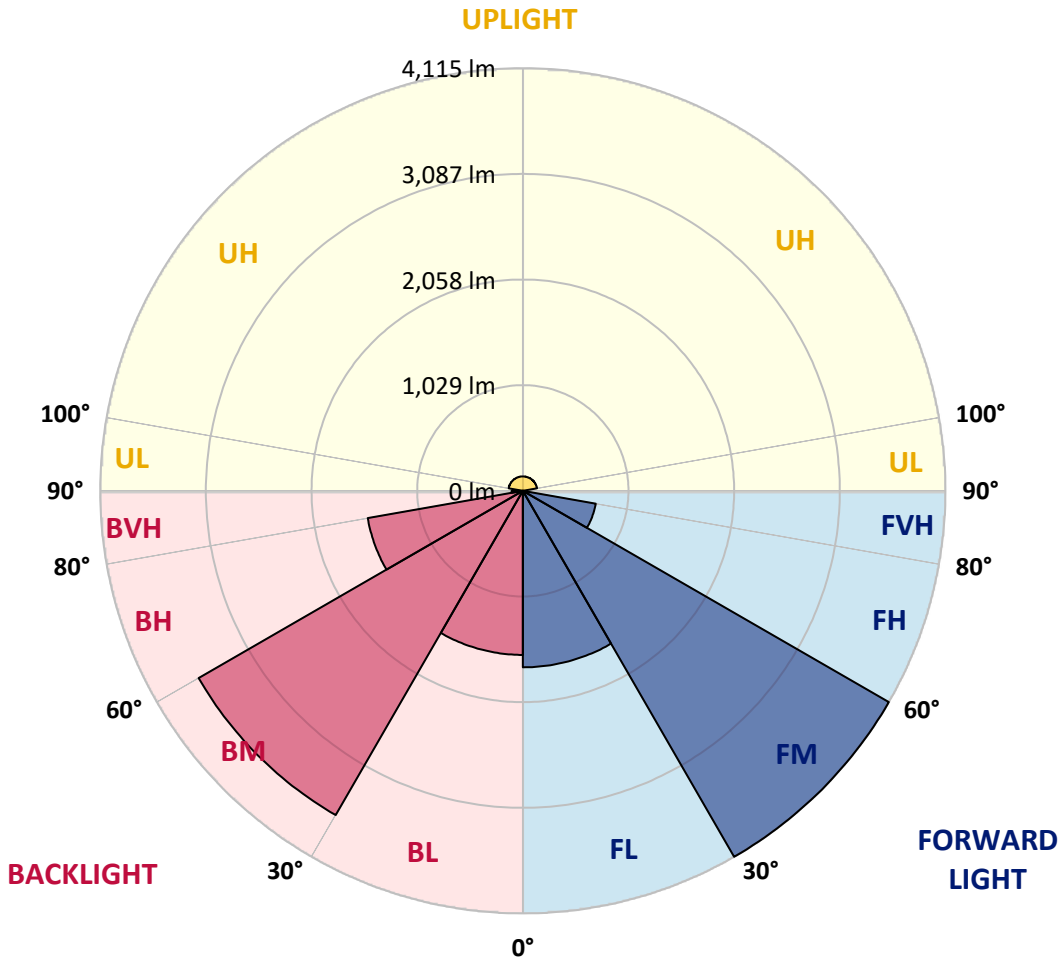
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1718.8	12.6			
FM	(30°-60°)	4115.4	30.2			
FH	(60°-80°)	721.0	5.3			G1/1800
FVH	(80°-90°)	16.9	0.1			G1/100
BL	(0°-30°)	1597.9	11.7	B3/2500		
BM	(30°-60°)	3645.9	26.8	B3/5000		
BH	(60°-80°)	1533.7	11.3	B3/2500		G3/2500
BVH	(80°-90°)	109.7	0.8			G2/225
UL	(90°-100°)	6.4	0.0		U1/10	
UH	(100°-180°)	140.4	1.0		U3/500	

BUG Rating: B3-U3-G3
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	3960.1	3960.1	3960.1	3960.1	3960.1	3960.1	3960.1	3960.1	3960.1	3960.1	3960.1
1°	3974.5	3972.8	3969.7	3958.8	3955.2	3949.2	3954.5	3951.2	3948.7	3956.5	3964.6
2°	3989.3	3986.4	3975.4	3963.0	3949.9	3938.6	3955.8	3945.5	3942.2	3952.3	3971.4
3°	4009.5	4002.2	3983.9	3961.2	3941.8	3936.8	3972.1	3953.8	3936.5	3950.7	3977.6
4°	4025.6	4016.8	3991.2	3957.0	3935.9	3944.4	4011.6	3974.6	3936.1	3944.7	3980.8
5°	4038.9	4028.2	3993.6	3951.8	3933.1	3965.9	4064.2	4022.6	3936.5	3935.9	3988.2
6°	4059.6	4038.3	3995.4	3936.8	3931.4	4014.1	4089.3	4063.1	3941.0	3926.0	3989.1
7°	4075.0	4050.3	3996.9	3929.4	3935.2	4055.0	4075.3	4079.1	3950.6	3915.5	3987.9
8°	4091.6	4061.8	3997.3	3920.4	3944.5	4071.1	4036.4	4065.1	3971.4	3904.4	3986.1
9°	4108.1	4078.3	3995.9	3912.1	3959.7	4051.1	4007.2	4019.5	3994.6	3891.9	3977.2
10°	4126.4	4089.9	3993.3	3900.0	3988.4	4013.1	3977.5	3988.3	4009.4	3871.4	3973.8
11°	4146.2	4102.3	3991.5	3885.3	4003.1	3980.9	3953.0	3957.7	4007.9	3854.7	3968.5
12°	4170.2	4117.2	3988.2	3867.8	4005.9	3951.1	3929.7	3932.1	3995.0	3838.6	3963.6
13°	4192.2	4128.7	3983.8	3850.4	3993.9	3924.5	3914.0	3903.3	3962.8	3820.6	3955.0
14°	4216.9	4144.2	3979.6	3833.7	3966.2	3896.9	3902.6	3877.6	3924.3	3805.2	3948.9
15°	4242.6	4161.1	3970.1	3809.5	3924.7	3871.6	3904.0	3862.9	3887.6	3784.7	3941.8
16°	4277.8	4179.6	3964.3	3790.3	3888.0	3854.6	3906.6	3854.6	3850.5	3762.7	3940.0
17°	4305.4	4205.6	3960.7	3768.9	3851.1	3845.9	3915.3	3848.5	3814.0	3740.5	3934.2
18°	4337.6	4225.1	3961.5	3746.4	3813.7	3839.3	3921.3	3844.1	3771.9	3711.9	3927.7
19°	4367.4	4246.6	3956.0	3726.9	3778.4	3835.0	3926.8	3840.6	3735.2	3688.6	3920.6
20°	4399.5	4271.1	3951.9	3703.3	3740.0	3823.6	3932.7	3833.3	3697.8	3666.2	3906.0
21°	4431.9	4294.1	3940.7	3681.9	3697.5	3818.1	3935.6	3830.1	3662.6	3645.0	3896.7
22°	4464.0	4318.9	3934.8	3658.3	3660.1	3815.2	3942.6	3826.9	3631.2	3624.2	3887.6
23°	4506.6	4343.7	3928.8	3629.4	3630.0	3815.4	3950.2	3824.5	3604.4	3605.7	3883.4
24°	4542.5	4368.1	3920.9	3608.0	3599.0	3813.7	3960.1	3825.4	3577.3	3588.0	3874.1
25°	4577.0	4394.2	3917.7	3589.2	3572.1	3810.4	3966.7	3824.3	3550.8	3575.1	3862.1
26°	4611.3	4420.0	3907.3	3575.4	3543.3	3808.2	3974.8	3822.3	3521.8	3562.8	3848.6
27°	4645.3	4454.2	3897.7	3561.2	3514.1	3802.3	3987.6	3817.6	3490.7	3546.0	3831.2
28°	4676.6	4480.2	3885.3	3547.3	3478.7	3797.9	4001.8	3813.4	3458.7	3513.4	3815.2
29°	4710.3	4506.3	3872.0	3528.2	3447.1	3793.6	4011.7	3808.7	3427.2	3483.4	3799.8
30°	4742.1	4529.5	3859.1	3500.1	3414.0	3788.6	4023.9	3808.3	3387.7	3444.4	3783.4
31°	4771.3	4550.0	3847.6	3465.9	3380.4	3784.5	4031.1	3802.3	3355.2	3390.3	3762.4
32°	4796.7	4574.8	3832.2	3425.8	3340.5	3779.7	4036.2	3801.3	3322.9	3326.4	3745.3
33°	4818.7	4598.8	3819.1	3371.6	3305.4	3777.1	4038.1	3799.1	3293.1	3259.2	3727.6
34°	4836.3	4623.0	3803.7	3294.7	3271.0	3773.9	4037.2	3796.9	3261.2	3197.7	3713.2
35°	4854.4	4647.6	3785.9	3227.2	3236.8	3774.4	4038.2	3792.9	3229.1	3135.3	3693.6
36°	4861.3	4664.8	3770.1	3158.7	3202.9	3767.1	4060.7	3781.9	3195.6	3057.1	3672.0
37°	4860.6	4678.5	3753.8	3088.8	3169.4	3756.2	4087.4	3771.8	3155.3	2989.2	3651.1
38°	4852.1	4688.0	3736.0	3018.4	3134.3	3743.4	4110.1	3770.1	3120.4	2920.0	3621.6
39°	4827.7	4693.3	3719.1	2947.6	3098.7	3735.6	4087.3	3778.1	3081.9	2849.4	3604.3
40°	4802.0	4691.0	3705.9	2877.4	3053.2	3747.7	4055.7	3794.5	3040.1	2775.7	3586.8
41°	4767.6	4682.2	3692.0	2808.6	3014.7	3764.0	4065.3	3780.9	2998.0	2711.1	3572.3
42°	4724.3	4666.0	3683.2	2731.0	2973.5	3752.1	4088.9	3732.7	2958.2	2649.2	3563.4
43°	4666.6	4634.7	3676.4	2665.1	2931.2	3703.6	4091.9	3722.8	2914.0	2584.1	3552.0
44°	4598.4	4598.9	3671.2	2602.1	2883.1	3692.7	4076.0	3732.8	2865.7	2520.9	3542.8

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	4516.7	4553.6	3670.4	2538.4	2835.4	3703.7	4052.0	3730.0	2815.8	2456.9	3537.4
46°	4410.0	4495.9	3671.1	2470.7	2780.3	3701.6	4028.4	3708.6	2775.8	2388.7	3535.0
47°	4299.9	4427.1	3671.7	2402.4	2734.8	3682.1	4011.1	3686.6	2752.7	2310.7	3532.2
48°	4174.1	4341.8	3675.4	2332.3	2710.4	3659.8	3987.3	3664.8	2725.0	2241.7	3529.7
49°	4033.5	4242.6	3678.5	2261.2	2685.0	3637.4	3961.2	3642.7	2639.6	2172.3	3531.6
50°	3861.0	4129.6	3682.1	2183.9	2614.1	3615.5	3930.2	3611.8	2578.9	2101.9	3527.7
51°	3694.1	3980.0	3687.5	2114.1	2537.8	3585.3	3888.6	3578.0	2544.8	2030.8	3529.0
52°	3511.0	3831.9	3689.7	2041.5	2504.0	3554.1	3858.0	3544.3	2499.0	1956.6	3531.5
53°	3304.7	3667.2	3692.3	1961.3	2461.6	3519.6	3826.4	3508.4	2451.2	1885.1	3533.6
54°	3058.2	3472.6	3691.2	1889.0	2412.0	3482.9	3793.2	3472.9	2399.4	1812.4	3538.0
55°	2820.0	3276.4	3689.5	1815.7	2357.3	3448.4	3757.4	3441.0	2346.4	1737.7	3536.7
56°	2574.8	3054.0	3684.4	1742.5	2302.7	3417.0	3711.6	3409.9	2292.7	1651.4	3531.8
57°	2279.3	2784.1	3670.2	1662.4	2243.7	3382.0	3653.4	3379.2	2226.0	1574.6	3522.0
58°	1976.9	2521.0	3649.6	1585.4	2174.0	3351.0	3565.0	3335.8	2162.5	1498.5	3500.5
59°	1637.0	2252.2	3610.5	1508.6	2107.4	3316.2	3442.5	3293.1	2100.1	1414.2	3472.8
60°	1232.8	1970.3	3560.8	1422.1	2043.6	3274.4	3333.9	3242.6	2041.0	1337.5	3431.0
61°	870.4	1628.3	3489.4	1347.8	1974.4	3221.2	3117.3	3166.0	1980.8	1260.7	3372.7
62°	580.3	1285.6	3392.8	1273.1	1916.1	3150.3	2798.2	3054.5	1928.3	1183.2	3279.7
63°	382.3	919.1	3239.3	1196.2	1856.9	3056.5	2582.7	2954.4	1874.8	1107.3	3156.7
64°	264.3	588.4	3050.8	1112.7	1799.0	2950.5	2459.0	2738.2	1822.8	1046.2	2985.7
65°	228.4	336.6	2809.6	1046.9	1740.5	2705.5	2335.4	2502.4	1768.9	968.6	2753.2
66°	212.8	212.4	2510.8	977.4	1686.0	2482.8	2201.9	2373.4	1717.2	894.8	2424.3
67°	200.6	167.0	2123.2	884.8	1630.7	2372.6	2036.7	2285.9	1661.1	824.5	2062.5
68°	188.2	150.2	1718.1	804.9	1572.4	2278.9	1883.1	2199.9	1594.7	746.8	1665.6
69°	176.5	137.9	1284.9	730.1	1504.9	2194.3	1725.1	2086.8	1528.3	673.8	1187.8
70°	167.0	125.5	864.1	661.2	1440.4	2094.3	1543.5	1979.5	1458.6	603.7	787.3
71°	160.4	115.7	543.2	587.2	1370.2	1990.6	1374.7	1874.5	1381.1	531.3	482.2
72°	151.5	108.8	304.7	522.4	1287.0	1881.0	1198.4	1765.7	1265.0	468.2	278.7
73°	142.7	102.3	176.3	461.7	1175.0	1774.0	1002.5	1641.2	1159.2	409.4	164.7
74°	130.8	94.0	135.2	406.3	1068.3	1661.8	840.3	1518.9	1095.3	351.4	134.6
75°	121.9	84.3	115.9	349.9	1005.4	1545.5	696.9	1375.5	1028.5	304.6	116.5
76°	112.2	74.2	103.5	303.4	941.9	1395.8	574.1	1210.4	962.0	261.9	105.2
77°	105.3	67.1	96.2	264.1	876.6	1237.3	462.3	1037.8	900.7	224.1	97.9
78°	98.5	60.7	91.6	228.7	818.7	1076.4	373.3	893.8	843.4	187.0	95.2
79°	92.6	55.9	84.8	194.9	764.2	926.6	279.9	768.0	783.1	156.5	89.1
80°	86.4	51.0	71.9	166.1	703.2	785.1	155.5	652.3	726.1	127.7	73.9
81°	78.7	47.0	56.9	134.2	646.0	667.6	62.5	531.4	669.5	100.6	58.6
82°	70.5	42.5	44.9	99.5	589.3	553.1	44.7	407.1	614.2	74.6	44.9
83°	50.0	35.1	34.9	74.6	529.9	393.8	36.2	232.7	543.7	55.5	34.4
84°	35.6	29.0	29.0	54.4	459.7	201.2	26.5	84.2	471.1	40.3	28.3
85°	28.0	22.6	24.0	38.8	392.7	60.5	19.3	27.5	393.1	28.5	23.1
86°	20.8	17.2	19.7	25.3	318.1	22.2	11.5	17.0	322.4	19.0	19.0
87°	12.4	12.3	14.9	16.0	244.0	12.3	6.5	9.8	226.0	12.6	14.4
88°	6.1	6.9	8.9	8.2	128.7	5.7	3.6	4.6	94.9	7.9	9.1
89°	2.9	4.1	4.1	3.2	19.4	2.0	1.8	2.1	6.1	5.3	6.8

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	2.5	3.7	3.3	2.3	1.8	0.0	1.7	2.1	5.4	5.0	7.2
91°	2.9	4.3	3.7	2.1	1.9	0.0	2.0	2.3	6.1	5.4	7.7
92°	3.2	4.6	3.8	2.5	2.3	0.0	2.1	2.6	6.6	5.7	8.1
93°	3.8	5.3	4.5	2.6	2.6	0.0	2.5	2.9	7.2	6.3	8.8
94°	4.2	5.6	4.6	2.9	3.0	0.0	2.9	3.5	7.7	7.0	9.2
95°	4.7	6.2	5.2	3.0	3.6	1.2	3.3	4.1	8.3	7.4	9.9
96°	5.3	6.8	5.5	3.4	3.8	1.2	3.6	4.5	9.1	7.8	10.5
97°	5.9	7.3	6.0	3.7	4.1	1.4	3.9	5.2	9.9	8.4	11.0
98°	6.5	8.1	6.3	4.2	4.7	1.7	4.7	6.0	10.5	9.0	11.8
99°	7.2	8.7	6.8	4.7	5.2	1.7	5.4	6.6	11.3	9.6	12.3
100°	7.9	9.6	7.0	5.1	5.7	2.3	5.9	7.6	12.1	10.4	13.0
101°	8.6	10.2	7.7	5.5	6.0	2.7	6.8	8.2	12.8	10.9	13.4
102°	9.5	10.9	8.2	6.0	6.6	2.9	7.4	9.0	13.6	11.8	14.1
103°	10.4	11.6	8.6	6.4	7.2	3.5	8.2	10.2	14.6	12.3	14.9
104°	11.3	12.3	9.0	7.0	8.0	3.9	9.2	11.2	15.4	13.1	15.4
105°	12.3	12.8	9.6	7.4	8.6	4.5	10.1	12.1	16.2	13.6	16.0
106°	13.1	13.6	10.1	8.1	9.2	5.3	11.0	13.2	17.3	14.5	16.6
107°	13.7	14.4	10.7	8.4	9.9	5.9	12.3	14.2	18.0	15.2	17.2
108°	14.6	15.1	11.3	9.1	10.6	6.5	13.4	15.5	19.0	15.9	18.0
109°	15.7	15.8	11.9	9.8	11.5	7.3	14.3	16.4	19.9	16.7	18.6
110°	16.2	16.6	12.3	10.5	12.1	8.2	15.7	17.7	21.1	17.5	19.2
111°	17.3	17.3	13.0	11.0	13.0	9.0	16.8	18.9	21.6	18.1	19.7
112°	18.1	18.1	13.5	11.6	13.4	10.0	18.0	20.2	22.5	18.9	20.3
113°	19.2	18.9	14.1	12.3	14.3	10.8	19.3	21.1	23.3	19.6	21.1
114°	20.1	19.7	14.8	13.1	14.8	11.8	20.5	22.6	24.0	20.4	21.4
115°	20.8	20.4	15.1	13.6	15.3	13.0	21.7	23.9	24.7	21.2	22.1
116°	21.6	21.0	15.8	14.2	15.8	14.0	23.1	25.1	25.5	22.0	22.8
117°	22.5	21.7	16.3	14.9	16.8	15.0	24.2	26.1	26.1	22.8	23.4
118°	23.4	22.5	16.9	15.7	17.1	16.0	25.8	27.5	27.0	23.4	24.0
119°	24.0	23.2	17.5	16.2	17.9	17.0	27.0	28.4	27.6	24.3	24.7
120°	25.0	23.8	18.3	16.8	18.7	18.1	28.3	29.4	28.2	25.0	25.0
121°	25.7	24.3	18.8	17.7	19.2	19.2	29.6	30.4	28.8	25.6	25.6
122°	26.5	25.0	19.5	18.1	19.9	19.9	30.8	31.5	29.2	26.4	26.0
123°	27.0	25.7	19.9	19.0	20.6	21.1	31.9	32.6	30.0	27.0	26.6
124°	27.7	26.1	20.5	19.5	21.3	21.9	32.9	33.2	30.6	27.7	26.8
125°	28.4	26.8	21.1	20.2	21.9	22.6	34.0	34.2	31.3	28.3	27.7
126°	29.1	27.5	21.4	21.1	22.8	23.7	34.8	35.0	32.1	28.7	27.9
127°	29.7	28.0	22.1	21.6	23.5	24.5	35.6	35.6	32.4	29.4	28.6
128°	30.1	28.6	22.6	22.3	24.2	25.2	36.6	36.5	33.2	29.7	29.2
129°	30.9	29.1	22.9	22.9	25.0	25.8	37.3	37.2	34.0	30.2	29.5
130°	31.8	29.7	23.8	23.4	25.8	26.7	38.2	37.6	34.5	30.9	30.0
131°	32.6	30.1	24.0	24.0	26.8	27.4	38.9	38.2	34.9	31.5	30.3
132°	32.6	30.6	24.6	24.6	27.6	28.3	39.5	38.9	35.7	31.8	31.0
133°	33.1	31.1	25.3	25.0	28.3	29.0	40.2	39.4	36.3	32.2	31.1
134°	33.5	31.4	25.8	25.7	29.3	29.5	40.8	39.9	37.1	32.7	31.8

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

Scaled Data Report

REPORT NUMBER: P1449820
CATALOG NUMBER: TWC100_T2_40W_5000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
135°	33.9	32.1	26.2	26.0	30.1	30.4	41.5	40.1	37.4	33.0	32.2
136°	34.7	32.6	26.8	26.7	30.9	31.1	41.8	40.4	38.0	33.5	32.6
137°	34.9	32.4	27.3	27.1	31.9	32.0	42.1	41.0	38.3	33.9	32.6
138°	35.6	32.9	27.8	27.8	32.4	32.6	42.7	41.5	38.6	34.4	33.2
139°	35.8	33.3	28.2	28.3	33.1	33.2	42.6	41.7	39.0	34.7	33.6
140°	36.3	33.7	28.6	28.7	33.8	34.1	43.3	42.1	39.4	35.0	34.0
141°	36.5	34.1	29.1	29.2	34.4	34.9	43.5	42.4	39.7	35.3	34.4
142°	37.2	34.4	29.4	29.7	35.0	35.9	43.9	42.5	40.1	35.9	34.9
143°	37.3	34.6	30.3	30.3	35.6	36.5	43.9	42.9	40.4	36.4	35.0
144°	37.4	34.9	30.3	30.8	36.2	37.5	44.4	43.1	40.7	36.8	35.6
145°	37.5	35.4	30.9	30.9	36.7	38.1	44.3	43.3	40.8	37.1	35.8
146°	37.9	35.3	31.3	31.4	37.0	38.8	44.5	43.5	41.1	37.5	36.2
147°	38.0	35.7	31.8	32.0	37.4	39.4	44.6	43.5	41.2	37.9	36.5
148°	38.1	35.9	32.2	32.3	37.7	40.0	44.6	43.8	41.6	37.9	37.0
149°	38.4	36.2	32.7	32.7	38.0	40.4	44.7	43.9	41.6	38.5	37.4
150°	38.3	36.3	33.0	33.3	38.3	40.9	44.5	43.9	41.9	38.8	37.4
151°	38.8	36.7	33.3	33.5	38.6	41.6	44.6	43.8	41.8	39.1	37.9
152°	38.9	36.6	33.7	34.1	38.9	41.9	44.6	43.9	42.0	39.4	38.1
153°	39.0	37.0	34.2	34.2	39.1	42.2	44.5	43.9	42.2	39.9	38.4
154°	39.0	37.0	34.5	35.0	39.3	42.2	44.3	43.9	42.2	39.8	38.6
155°	39.1	37.4	35.0	35.0	39.7	42.6	44.3	43.9	42.2	39.9	39.0
156°	39.2	37.4	35.3	35.8	39.8	42.8	44.2	43.7	42.1	40.2	39.2
157°	39.2	37.6	35.6	36.1	40.0	42.6	43.8	43.9	42.2	40.4	39.3
158°	39.7	37.5	36.2	36.4	40.3	43.0	43.7	43.4	42.2	40.9	39.5
159°	39.4	38.0	36.4	36.8	40.3	43.0	43.5	43.6	42.5	41.0	39.9
160°	39.5	38.1	36.8	37.6	40.6	43.1	43.3	43.4	42.5	41.0	40.1
161°	39.7	38.4	37.1	37.5	40.7	43.1	43.3	43.5	42.4	41.3	40.2
162°	39.7	38.5	37.4	37.9	40.9	43.4	43.3	43.4	42.4	41.3	40.3
163°	39.8	38.6	37.7	38.3	41.2	43.4	43.1	43.1	42.4	41.7	40.6
164°	40.0	38.8	38.2	38.9	41.3	43.4	42.9	43.1	42.5	41.7	40.6
165°	40.1	39.1	38.2	39.0	41.5	43.4	42.6	43.0	42.5	41.8	40.8
166°	40.2	39.2	38.5	39.2	41.6	43.4	42.5	42.8	42.6	41.8	40.9
167°	40.2	39.4	38.9	39.5	41.8	43.4	42.8	43.0	42.6	42.2	41.2
168°	40.3	39.4	39.2	39.9	41.8	43.4	42.7	43.0	42.5	42.2	41.3
169°	40.4	39.9	39.4	40.1	42.0	43.4	42.4	42.8	42.6	42.5	41.5
170°	40.6	40.0	39.9	40.7	42.2	43.3	42.4	42.5	42.7	42.4	41.6
171°	40.8	40.1	39.9	40.9	42.5	43.5	42.7	42.8	42.2	42.7	41.7
172°	41.0	40.2	40.6	41.1	42.4	43.3	42.6	42.6	42.6	42.7	42.1
173°	41.2	40.4	40.4	41.5	42.4	43.3	42.7	42.4	42.6	42.9	42.0
174°	41.5	40.7	41.0	41.7	42.4	43.1	42.7	42.6	42.4	43.0	42.2
175°	41.7	41.0	41.2	42.0	42.5	43.1	42.7	42.5	42.6	42.9	42.4
176°	42.1	41.2	41.5	41.9	42.6	43.1	42.8	42.7	42.5	43.1	42.4
177°	42.2	41.5	41.5	42.5	42.5	43.3	42.8	42.1	42.1	43.0	42.6
178°	42.2	41.7	41.7	42.4	42.6	43.1	42.5	42.4	42.2	43.0	42.5
179°	42.4	41.9	42.2	42.7	42.7	43.0	42.7	42.2	42.4	42.8	42.8

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

Scaled Data Report

REPORT NUMBER: P1449820
CATALOG NUMBER: TWC100_T2_40W_5000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
180°	*42.5*	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5

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

Scaled Data Report

REPORT NUMBER: P1449820
CATALOG NUMBER: TWC100_T2_40W_5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	3960.1	3960.1
1°	3974.2	3974.5
2°	3993.5	3989.3
3°	4005.3	4009.5
4°	4016.9	4025.6
5°	4024.4	4038.9
6°	4034.6	4059.6
7°	4045.3	4075.0
8°	4055.5	4091.6
9°	4069.6	4108.1
10°	4081.6	4126.4
11°	4094.3	4146.2
12°	4109.1	4170.2
13°	4121.0	4192.2
14°	4136.9	4216.9
15°	4152.7	4242.6
16°	4175.0	4277.8
17°	4194.2	4305.4
18°	4214.3	4337.6
19°	4234.1	4367.4
20°	4257.6	4399.5
21°	4279.7	4431.9
22°	4303.0	4464.0
23°	4327.5	4506.6
24°	4349.9	4542.5
25°	4376.0	4577.0
26°	4399.7	4611.3
27°	4427.8	4645.3
28°	4452.4	4676.6
29°	4476.8	4710.3
30°	4498.2	4742.1
31°	4518.5	4771.3
32°	4541.3	4796.7
33°	4563.3	4818.7
34°	4582.2	4836.3
35°	4603.3	4854.4
36°	*4616.8*	*4861.3*
37°	4625.9	4860.6
38°	4631.8	4852.1
39°	4630.4	4827.7
40°	4622.9	4802.0
41°	4612.2	4767.6
42°	4591.5	4724.3
43°	4556.5	4666.6
44°	4518.0	4598.4

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1449820
CATALOG NUMBER: TWC100_T2_40W_5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	4469.5	4516.7
46°	4407.8	4410.0
47°	4337.0	4299.9
48°	4249.8	4174.1
49°	4148.4	4033.5
50°	4014.4	3861.0
51°	3877.7	3694.1
52°	3724.1	3511.0
53°	3554.8	3304.7
54°	3353.5	3058.2
55°	3147.2	2820.0
56°	2913.7	2574.8
57°	2663.2	2279.3
58°	2373.2	1976.9
59°	2099.7	1637.0
60°	1803.3	1232.8
61°	1479.5	870.4
62°	1096.0	580.3
63°	743.9	382.3
64°	457.5	264.3
65°	272.8	228.4
66°	179.9	212.8
67°	155.1	200.6
68°	141.0	188.2
69°	127.2	176.5
70°	115.6	167.0
71°	107.8	160.4
72°	101.7	151.5
73°	93.8	142.7
74°	85.2	130.8
75°	75.9	121.9
76°	68.2	112.2
77°	61.5	105.3
78°	55.8	98.5
79°	52.0	92.6
80°	48.3	86.4
81°	44.5	78.7
82°	39.5	70.5
83°	33.0	50.0
84°	27.7	35.6
85°	21.2	28.0
86°	17.3	20.8
87°	13.3	12.4
88°	9.2	6.1
89°	8.6	2.9

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Scaled Data Report

REPORT NUMBER: P1449820
CATALOG NUMBER: TWC100_T2_40W_5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
90°	9.2	2.5
91°	9.9	2.9
92°	10.8	3.2
93°	11.5	3.8
94°	12.4	4.2
95°	13.2	4.7
96°	14.0	5.3
97°	15.0	5.9
98°	15.8	6.5
99°	16.7	7.2
100°	17.7	7.9
101°	18.4	8.6
102°	19.2	9.5
103°	19.8	10.4
104°	21.0	11.3
105°	21.6	12.3
106°	22.4	13.1
107°	23.3	13.7
108°	24.1	14.6
109°	24.8	15.7
110°	25.5	16.2
111°	26.4	17.3
112°	27.0	18.1
113°	27.9	19.2
114°	28.5	20.1
115°	29.1	20.8
116°	29.7	21.6
117°	30.4	22.5
118°	30.9	23.4
119°	31.3	24.0
120°	31.9	25.0
121°	32.4	25.7
122°	32.4	26.5
123°	32.9	27.0
124°	33.5	27.7
125°	33.8	28.4
126°	34.0	29.1
127°	34.5	29.7
128°	34.8	30.1
129°	34.8	30.9
130°	35.4	31.8
131°	35.5	32.6
132°	35.6	32.6
133°	35.8	33.1
134°	36.3	33.5

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Scaled Data Report

REPORT NUMBER: P1449820
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CANDELA DISTRIBUTION (continued):

	330°	360°
135°	36.4	33.9
136°	36.6	34.7
137°	36.8	34.9
138°	37.1	35.6
139°	37.4	35.8
140°	37.2	36.3
141°	37.3	36.5
142°	37.5	37.2
143°	37.9	37.3
144°	37.9	37.4
145°	38.0	37.5
146°	38.1	37.9
147°	38.5	38.0
148°	38.3	38.1
149°	38.4	38.4
150°	38.5	38.3
151°	38.9	38.8
152°	39.0	38.9
153°	39.2	39.0
154°	39.1	39.0
155°	39.1	39.1
156°	39.3	39.2
157°	39.5	39.2
158°	39.5	39.7
159°	39.7	39.4
160°	39.7	39.5
161°	39.8	39.7
162°	39.9	39.7
163°	39.9	39.8
164°	40.1	40.0
165°	40.3	40.1
166°	40.4	40.2
167°	40.7	40.2
168°	40.8	40.3
169°	40.9	40.4
170°	41.0	40.6
171°	41.3	40.8
172°	41.2	41.0
173°	41.7	41.2
174°	41.9	41.5
175°	42.0	41.7
176°	42.1	42.1
177°	42.1	42.2
178°	42.6	42.2
179°	42.7	42.4

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

REPORT NUMBER: P1449820
CATALOG NUMBER: TWC100_T2_40W_5000K

CANDELA DISTRIBUTION (continued):

	330°	360°
180°	42.5	42.5

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

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

Report Prepared for

Cooper Lighting Solutions

Lumark

Report Number: SP1-2601-659-3

Test Date: 02/12/2026

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

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.05

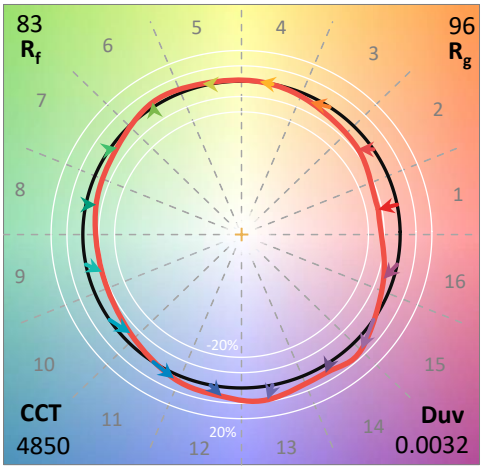
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2601-659-3
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	02/16/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Lumark
Catalog Number:	**MWP2460W34VDDKYYAD-T4-24W-5000K**
Description:	Mester Wedge, at T4 beam setting, 24W output, 5000K

Spectral Parameters

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

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



Test Conditions

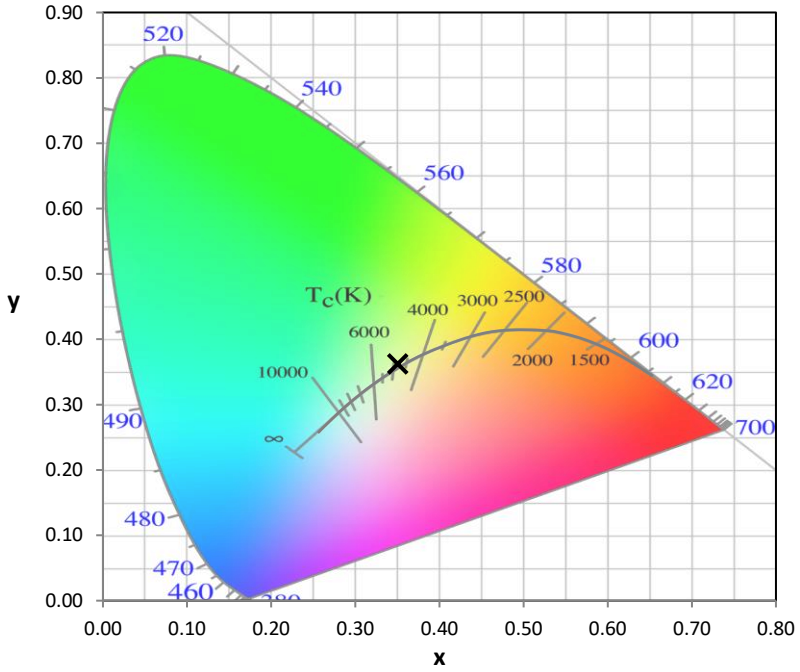
Stabilization Time:	25M
Operation Time:	1H 25M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2601-659-3

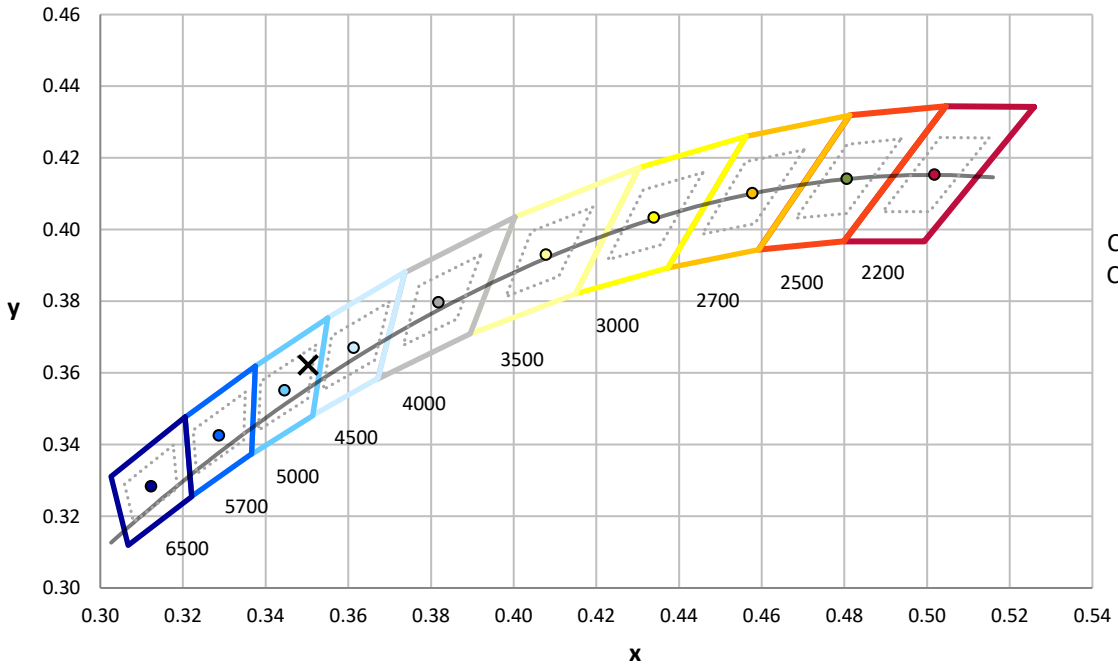
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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

REPORT NUMBER: SP1-2601-659-3

CIE 1931 Chromaticity Diagram



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

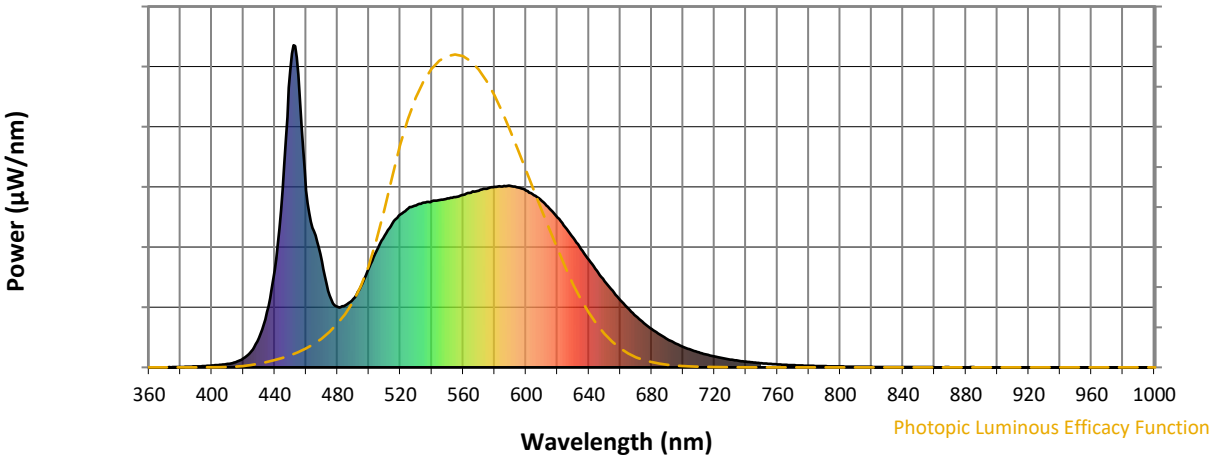


CCT = 4850K
CIE x = 0.3503
CIE y = 0.3623
Duv = 0.0032

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2601-659-3

Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	212	NR	620	465	NR	750	13	NR	880	0	NR
365	0	NR	495	253	NR	625	436	NR	755	11	NR	885	1	NR
370	0	NR	500	309	NR	630	403	NR	760	9	NR	890	0	NR
375	1	NR	505	363	NR	635	368	NR	765	8	NR	895	0	NR
380	1	NR	510	409	NR	640	334	NR	770	7	NR	900	0	NR
385	2	NR	515	448	NR	645	300	NR	775	6	NR	905	0	NR
390	3	NR	520	475	NR	650	268	NR	780	5	NR	910	0	NR
395	4	NR	525	493	NR	655	238	NR	785	4	NR	915	0	NR
400	6	NR	530	503	NR	660	209	NR	790	4	NR	920	0	NR
405	8	NR	535	512	NR	665	183	NR	795	3	NR	925	0	NR
410	11	NR	540	515	NR	670	159	NR	800	3	NR	930	0	NR
415	16	NR	545	520	NR	675	138	NR	805	2	NR	935	0	NR
420	28	NR	550	524	NR	680	119	NR	810	2	NR	940	0	NR
425	50	NR	555	528	NR	685	102	NR	815	2	NR	945	0	NR
430	92	NR	560	535	NR	690	88	NR	820	2	NR	950	0	NR
435	171	NR	565	542	NR	695	75	NR	825	1	NR	955	0	NR
440	300	NR	570	548	NR	700	64	NR	830	1	NR	960	0	NR
445	553	NR	575	555	NR	705	55	NR	835	1	NR	965	0	NR
450	925	NR	580	560	NR	710	46	NR	840	1	NR	970	0	NR
455	909	NR	585	562	NR	715	40	NR	845	1	NR	975	0	NR
460	550	NR	590	563	NR	720	34	NR	850	1	NR	980	0	NR
465	422	NR	595	558	NR	725	29	NR	855	1	NR	985	0	NR
470	328	NR	600	548	NR	730	24	NR	860	1	NR	990	0	NR
475	223	NR	605	534	NR	735	21	NR	865	0	NR	995	0	NR
480	188	NR	610	516	NR	740	18	NR	870	0	NR	1000	0	NR
485	193	NR	615	492	NR	745	15	NR	875	0	NR			

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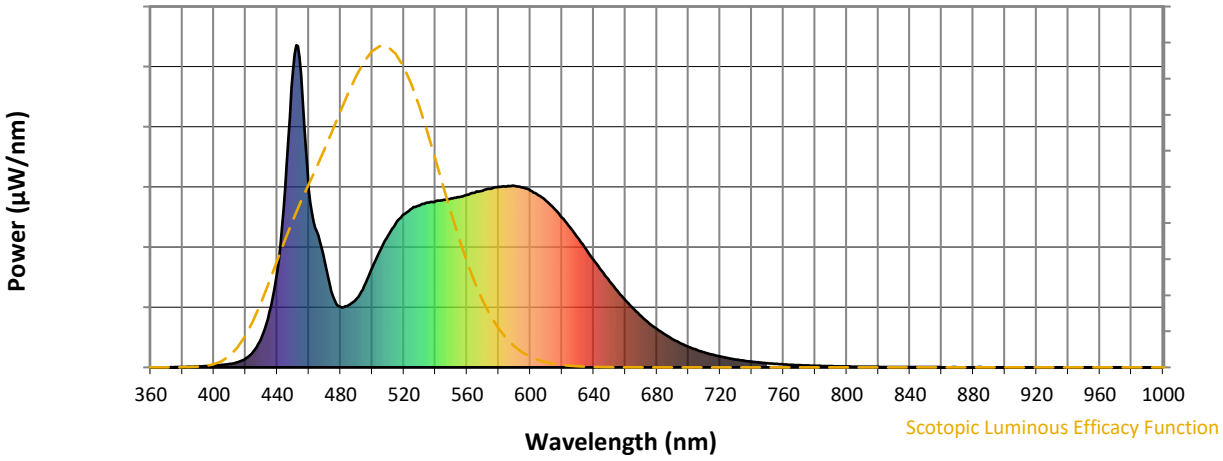
Scotopic Flux vs. Wavelength



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

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	212	NR	620	465	NR	750	13	NR	880	0	NR
365	0	NR	495	253	NR	625	436	NR	755	11	NR	885	1	NR
370	0	NR	500	309	NR	630	403	NR	760	9	NR	890	0	NR
375	1	NR	505	363	NR	635	368	NR	765	8	NR	895	0	NR
380	1	NR	510	409	NR	640	334	NR	770	7	NR	900	0	NR
385	2	NR	515	448	NR	645	300	NR	775	6	NR	905	0	NR
390	3	NR	520	475	NR	650	268	NR	780	5	NR	910	0	NR
395	4	NR	525	493	NR	655	238	NR	785	4	NR	915	0	NR
400	6	NR	530	503	NR	660	209	NR	790	4	NR	920	0	NR
405	8	NR	535	512	NR	665	183	NR	795	3	NR	925	0	NR
410	11	NR	540	515	NR	670	159	NR	800	3	NR	930	0	NR
415	16	NR	545	520	NR	675	138	NR	805	2	NR	935	0	NR
420	28	NR	550	524	NR	680	119	NR	810	2	NR	940	0	NR
425	50	NR	555	528	NR	685	102	NR	815	2	NR	945	0	NR
430	92	NR	560	535	NR	690	88	NR	820	2	NR	950	0	NR
435	171	NR	565	542	NR	695	75	NR	825	1	NR	955	0	NR
440	300	NR	570	548	NR	700	64	NR	830	1	NR	960	0	NR
445	553	NR	575	555	NR	705	55	NR	835	1	NR	965	0	NR
450	925	NR	580	560	NR	710	46	NR	840	1	NR	970	0	NR
455	909	NR	585	562	NR	715	40	NR	845	1	NR	975	0	NR
460	550	NR	590	563	NR	720	34	NR	850	1	NR	980	0	NR
465	422	NR	595	558	NR	725	29	NR	855	1	NR	985	0	NR
470	328	NR	600	548	NR	730	24	NR	860	1	NR	990	0	NR
475	223	NR	605	534	NR	735	21	NR	865	0	NR	995	0	NR
480	188	NR	610	516	NR	740	18	NR	870	0	NR	1000	0	NR
485	193	NR	615	492	NR	745	15	NR	875	0	NR			

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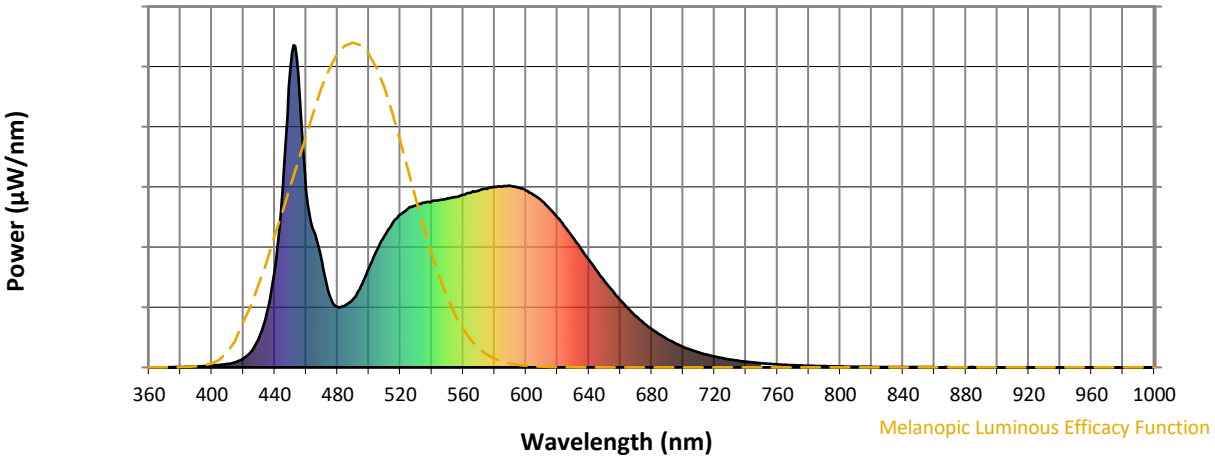
Melanopic Flux vs. Wavelength



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

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	212	NR	620	465	NR	750	13	NR	880	0	NR
365	0	NR	495	253	NR	625	436	NR	755	11	NR	885	1	NR
370	0	NR	500	309	NR	630	403	NR	760	9	NR	890	0	NR
375	1	NR	505	363	NR	635	368	NR	765	8	NR	895	0	NR
380	1	NR	510	409	NR	640	334	NR	770	7	NR	900	0	NR
385	2	NR	515	448	NR	645	300	NR	775	6	NR	905	0	NR
390	3	NR	520	475	NR	650	268	NR	780	5	NR	910	0	NR
395	4	NR	525	493	NR	655	238	NR	785	4	NR	915	0	NR
400	6	NR	530	503	NR	660	209	NR	790	4	NR	920	0	NR
405	8	NR	535	512	NR	665	183	NR	795	3	NR	925	0	NR
410	11	NR	540	515	NR	670	159	NR	800	3	NR	930	0	NR
415	16	NR	545	520	NR	675	138	NR	805	2	NR	935	0	NR
420	28	NR	550	524	NR	680	119	NR	810	2	NR	940	0	NR
425	50	NR	555	528	NR	685	102	NR	815	2	NR	945	0	NR
430	92	NR	560	535	NR	690	88	NR	820	2	NR	950	0	NR
435	171	NR	565	542	NR	695	75	NR	825	1	NR	955	0	NR
440	300	NR	570	548	NR	700	64	NR	830	1	NR	960	0	NR
445	553	NR	575	555	NR	705	55	NR	835	1	NR	965	0	NR
450	925	NR	580	560	NR	710	46	NR	840	1	NR	970	0	NR
455	909	NR	585	562	NR	715	40	NR	845	1	NR	975	0	NR
460	550	NR	590	563	NR	720	34	NR	850	1	NR	980	0	NR
465	422	NR	595	558	NR	725	29	NR	855	1	NR	985	0	NR
470	328	NR	600	548	NR	730	24	NR	860	1	NR	990	0	NR
475	223	NR	605	534	NR	735	21	NR	865	0	NR	995	0	NR
480	188	NR	610	516	NR	740	18	NR	870	0	NR	1000	0	NR
485	193	NR	615	492	NR	745	15	NR	875	0	NR			

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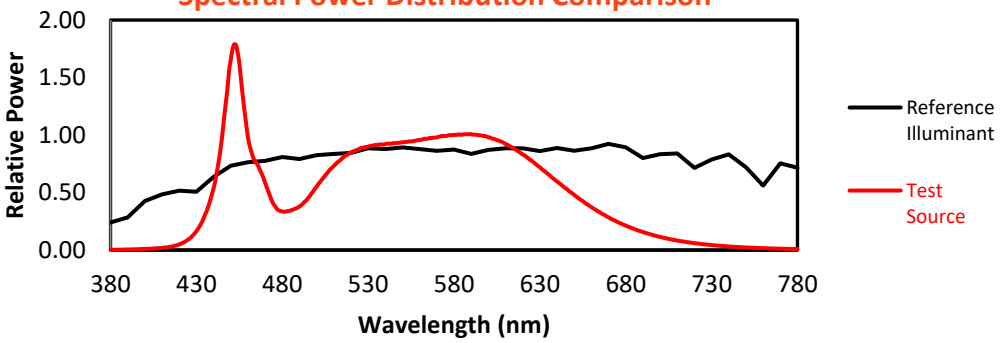
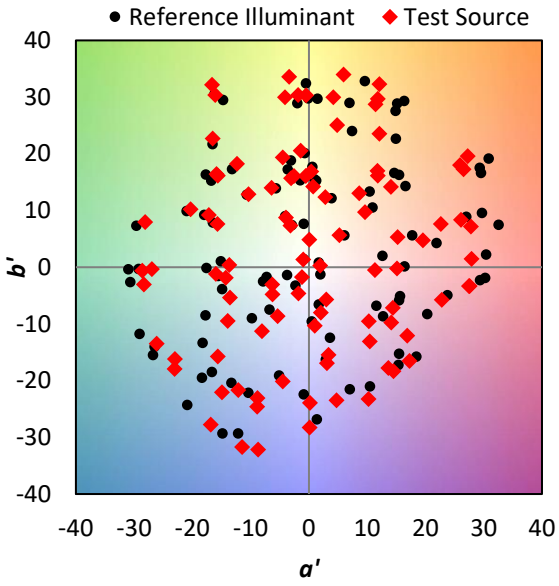
Summary

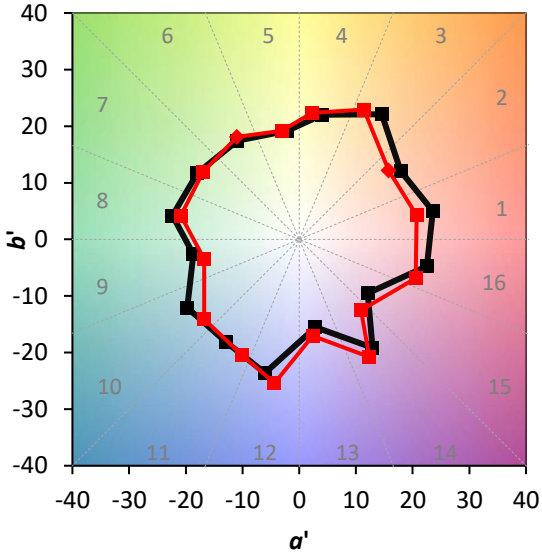
R_f = 83.1
R_g = 95.8
CIE R_a = 82.6
R_9 = 8.5

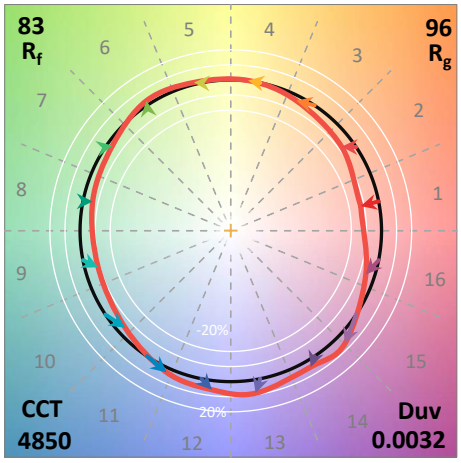
Spectral Power Distribution Comparison

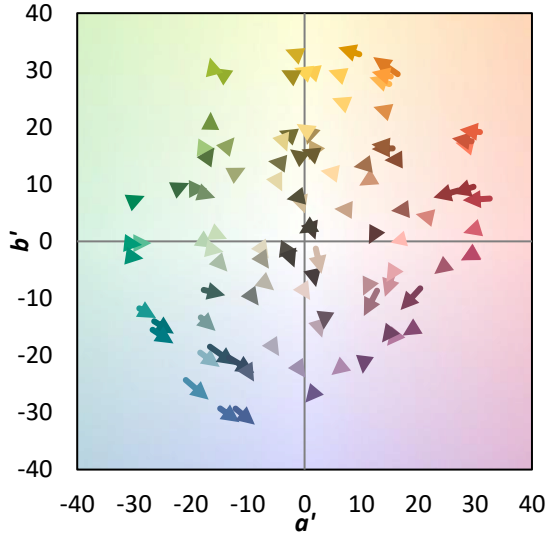


Color Vector Graphics









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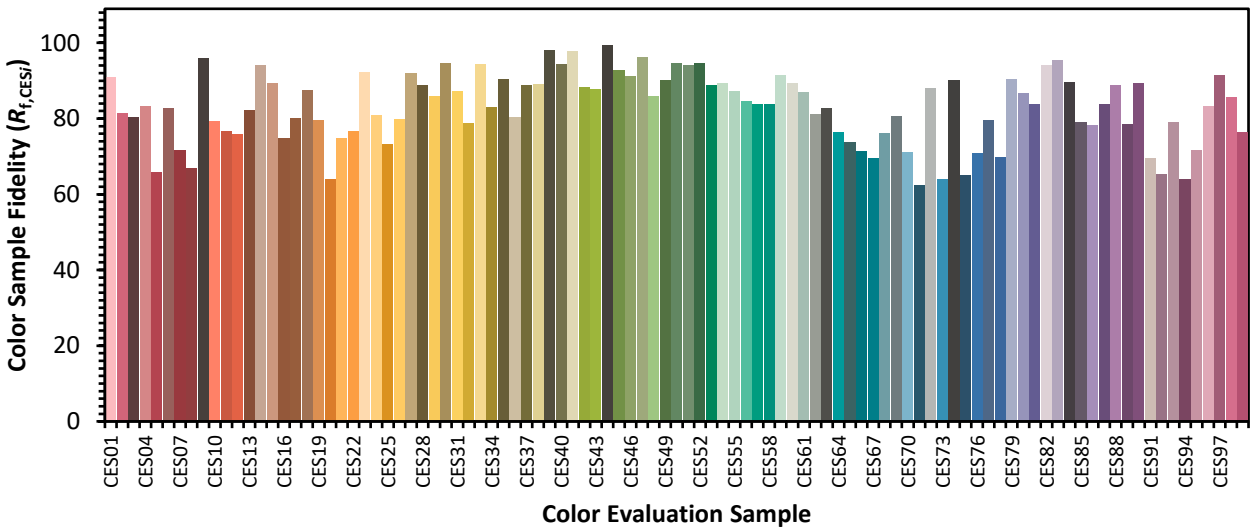
Individual Sample Fidelity Index ($R_{f,i}$)

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



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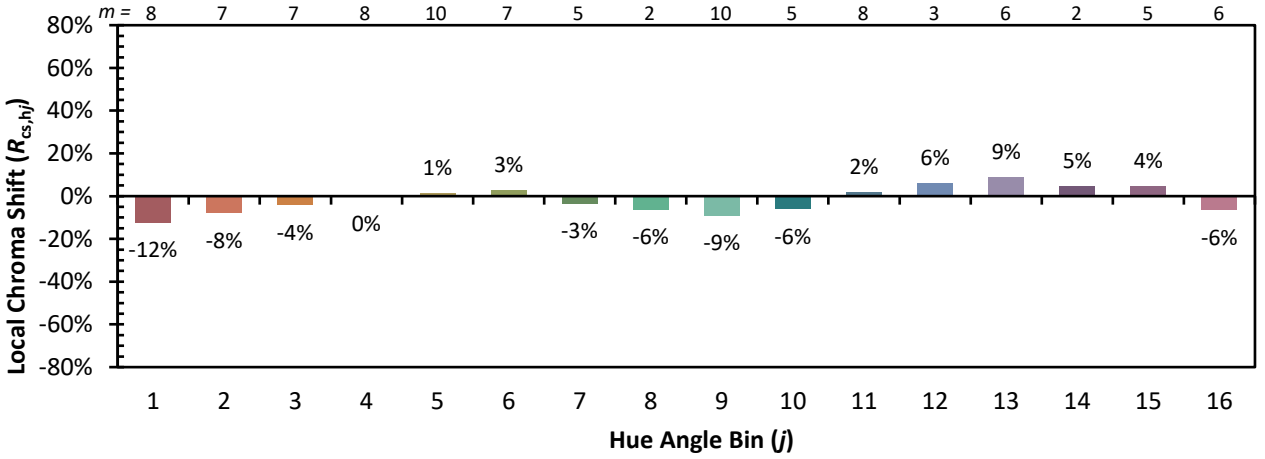
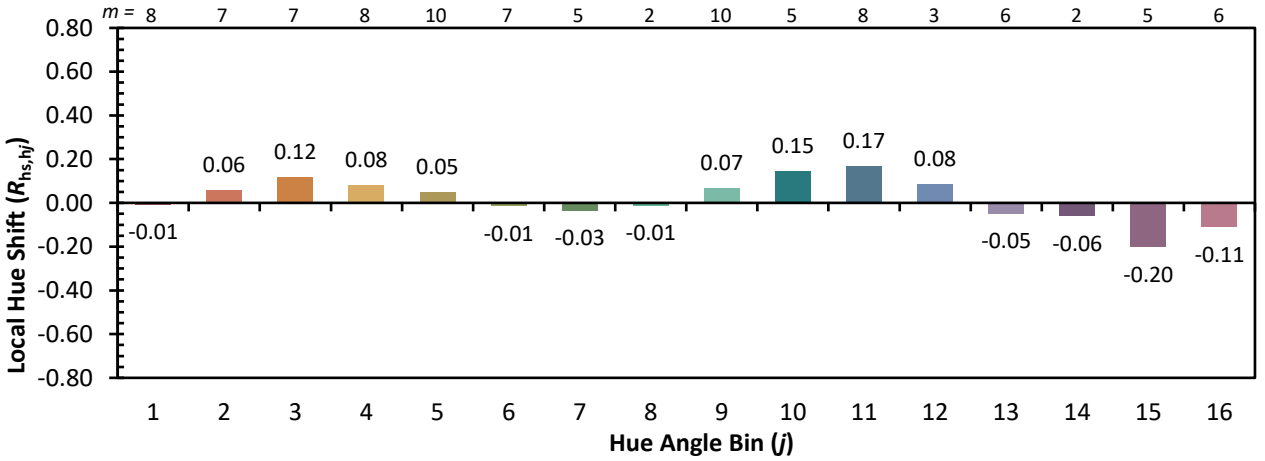
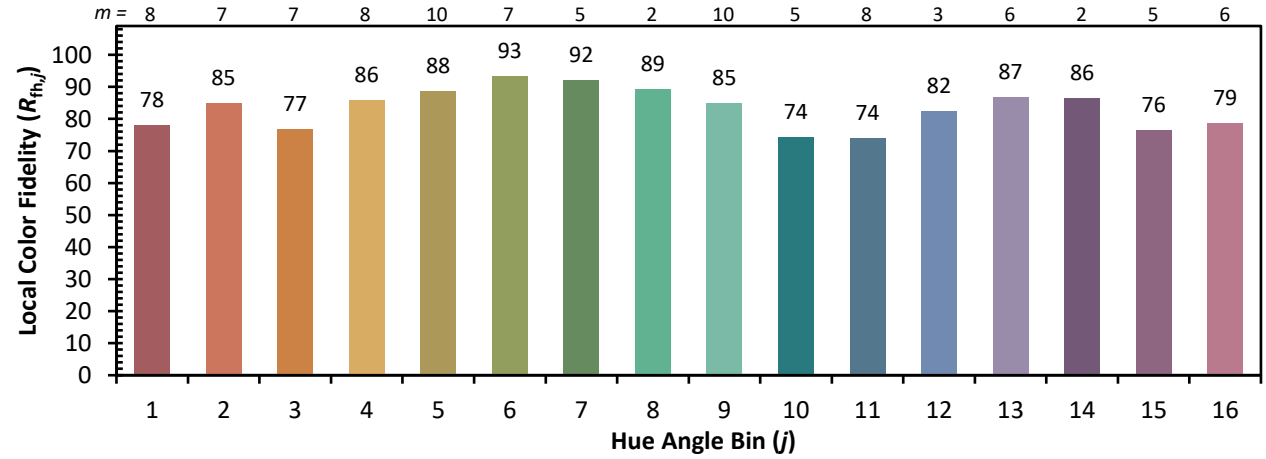
Color Rendition by Hue-Angle Bin







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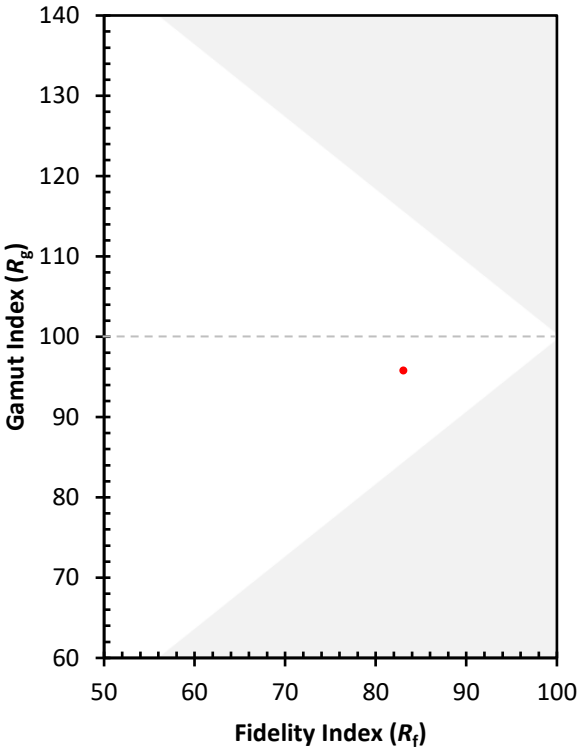
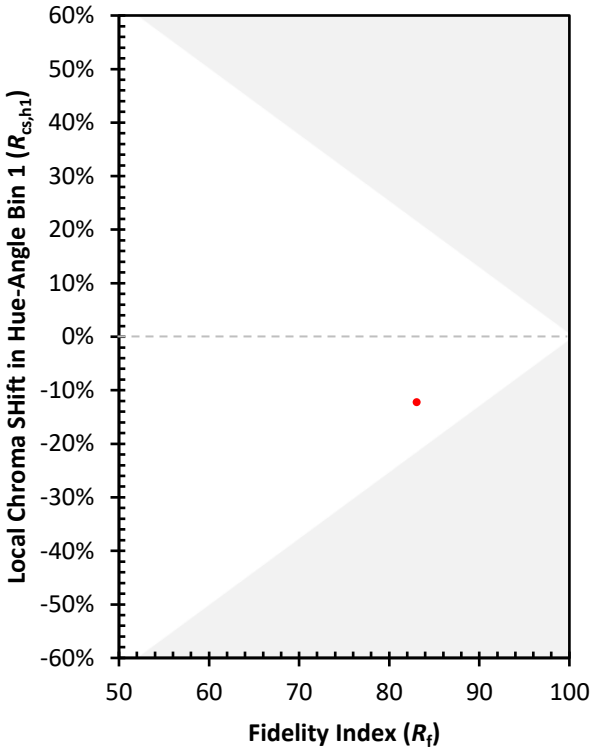
Measure Comparisons





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