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: P1449819

Luminaire Tested: **TWC100_T2_40W_4000K**

Issue Date: 5/19/2026

Report Generated By 670246072

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1449819
	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_4000K
Description:	Tapered Wall Cutoff Wall Mount Luminaire at, T2 distribution, 40W 4000K settings
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	13492 lumens
Efficiency:	N/A
Efficacy:	175.9 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):	76.7
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

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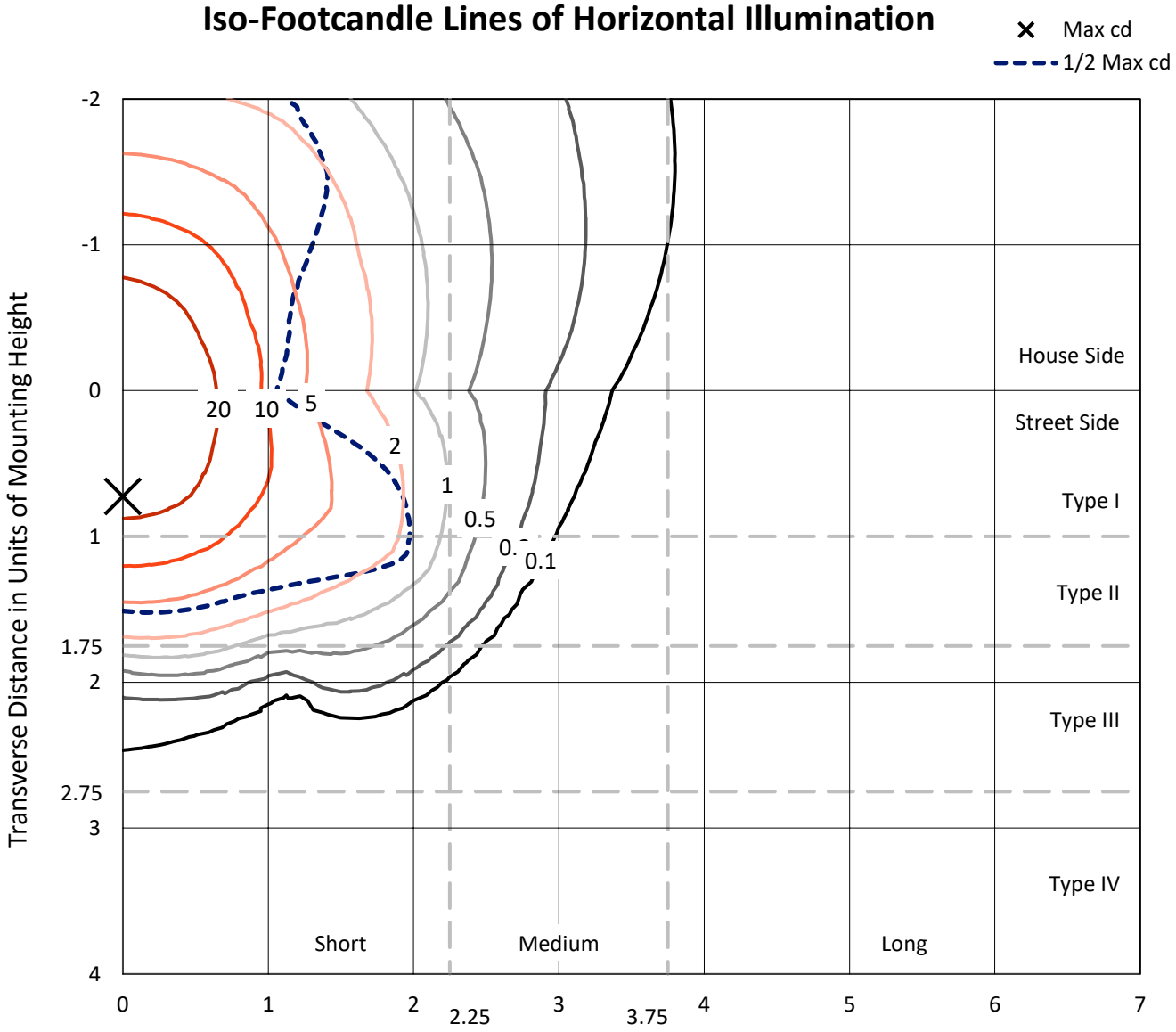
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 39.5 fc
Type II - Short - N/A

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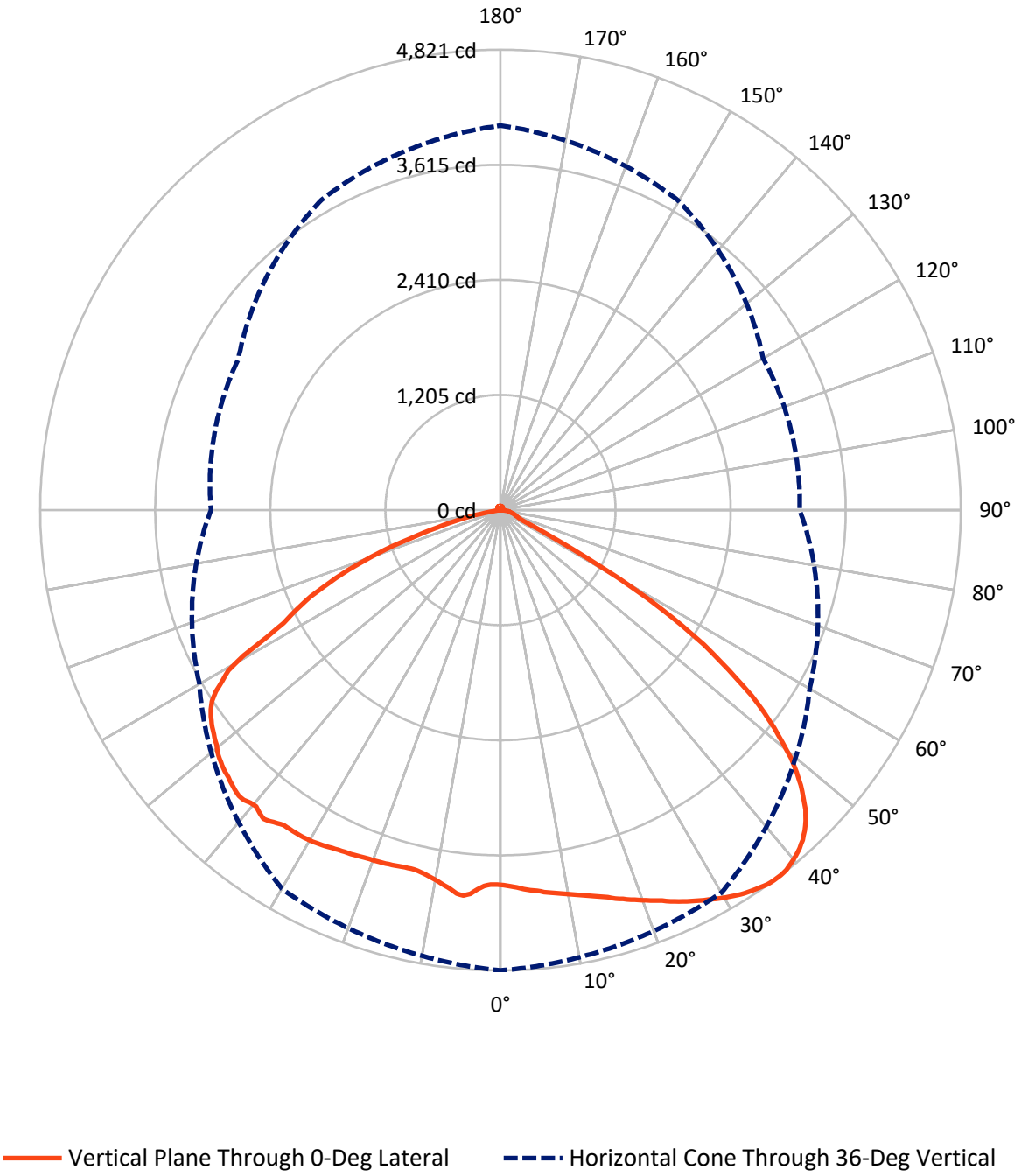
Luminous Intensity Polar Plot



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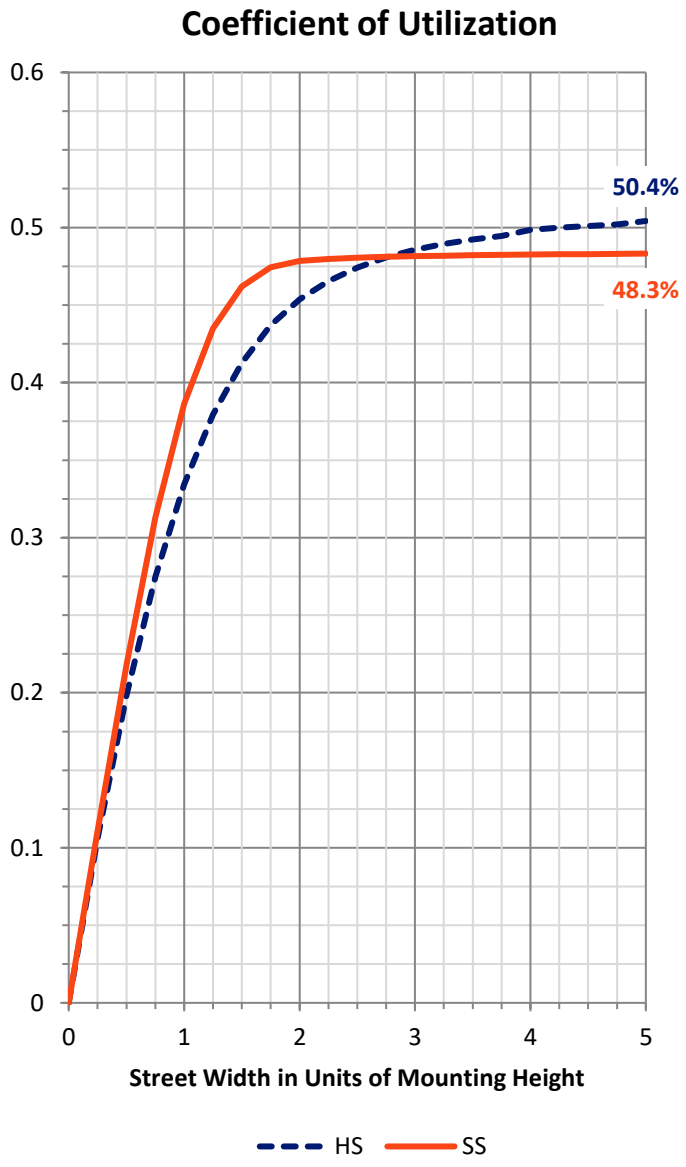
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6829.4	72.8	6902.2
	% Fixture	50.6	0.5	51.2
Street Side	Lumens	6517.0	72.8	6589.8
	% Fixture	48.3	0.5	48.8
Total	Lumens	13346.4	145.6	13492.0
	% Fixture	98.9	1.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.3	2.8
10°-20°	1113.2	8.3
20°-30°	1797.4	13.3
30°-40°	2382.3	17.7
40°-50°	2727.7	20.2
50°-60°	2586.3	19.2
60°-70°	1619.0	12.0
70°-80°	616.8	4.6
80°-90°	125.5	0.9
90°-100°	6.4	0.0
100°-110°	12.8	0.1
110°-120°	19.7	0.1
120°-130°	24.4	0.2
130°-140°	25.4	0.2
140°-150°	23.2	0.2
150°-160°	18.2	0.1
160°-170°	11.5	0.1
170°-180°	4.0	0.0
0°-90°	13346.4	98.9
0°-180°	13492.0	100.0



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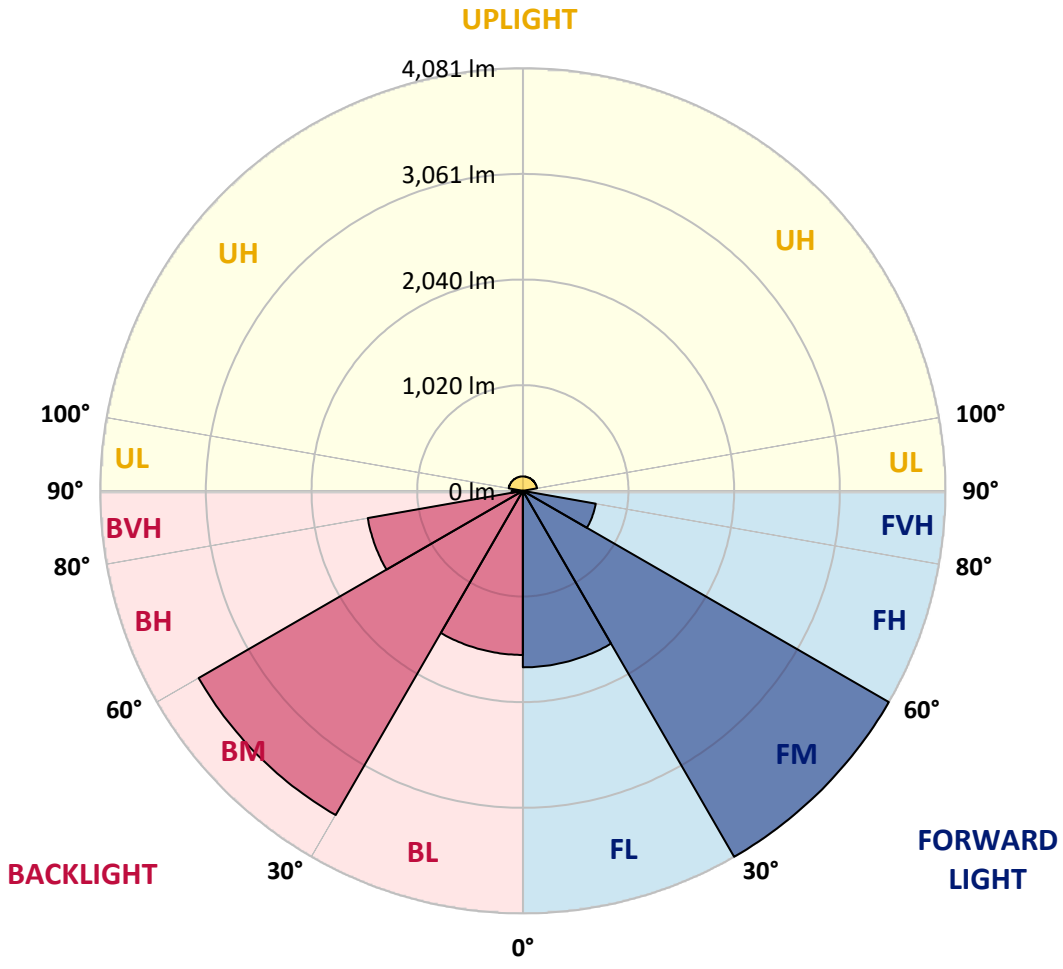
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1704.4	12.6			
FM	(30°-60°)	4080.9	30.2			
FH	(60°-80°)	714.9	5.3			G1/1800
FVH	(80°-90°)	16.8	0.1			G1/100
BL	(0°-30°)	1584.5	11.7	B3/2500		
BM	(30°-60°)	3615.3	26.8	B3/5000		
BH	(60°-80°)	1520.8	11.3	B3/2500		G3/2500
BVH	(80°-90°)	108.8	0.8			G2/225
UL	(90°-100°)	6.4	0.0		U1/10	
UH	(100°-180°)	139.2	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°	3927.0	3927.0	3927.0	3927.0	3927.0	3927.0	3927.0	3927.0	3927.0	3927.0	3927.0
1°	3941.2	3939.5	3936.5	3925.6	3922.1	3916.1	3921.4	3918.1	3915.6	3923.4	3931.4
2°	3955.9	3953.0	3942.0	3929.8	3916.8	3905.6	3922.6	3912.4	3909.2	3919.1	3938.1
3°	3975.9	3968.6	3950.5	3928.0	3908.8	3903.8	3938.8	3920.7	3903.5	3917.6	3944.3
4°	3991.9	3983.2	3957.8	3923.8	3902.9	3911.3	3978.0	3941.3	3903.2	3911.7	3947.4
5°	4005.0	3994.4	3960.1	3918.7	3900.2	3932.7	4030.2	3988.8	3903.5	3902.9	3954.8
6°	4025.6	4004.5	3961.9	3903.8	3898.5	3980.5	4055.0	4029.1	3908.0	3893.1	3955.7
7°	4040.9	4016.3	3963.4	3896.5	3902.3	4021.0	4041.1	4044.9	3917.5	3882.7	3954.4
8°	4057.3	4027.7	3963.8	3887.5	3911.4	4037.0	4002.6	4031.1	3938.1	3871.7	3952.7
9°	4073.6	4044.1	3962.4	3879.4	3926.5	4017.1	3973.7	3985.8	3961.1	3859.3	3943.8
10°	4091.9	4055.7	3959.8	3867.3	3955.0	3979.5	3944.2	3954.9	3975.8	3838.9	3940.5
11°	4111.5	4067.9	3958.0	3852.8	3969.5	3947.5	3919.9	3924.5	3974.3	3822.4	3935.2
12°	4135.3	4082.7	3954.8	3835.4	3972.3	3918.0	3896.8	3899.1	3961.5	3806.4	3930.4
13°	4157.1	4094.1	3950.4	3818.2	3960.5	3891.7	3881.2	3870.6	3929.6	3788.6	3921.8
14°	4181.5	4109.5	3946.3	3801.6	3933.0	3864.3	3869.9	3845.1	3891.4	3773.4	3915.8
15°	4207.0	4126.3	3936.8	3777.6	3891.8	3839.2	3871.3	3830.6	3855.0	3753.0	3908.8
16°	4242.0	4144.6	3931.1	3758.5	3855.5	3822.3	3873.9	3822.3	3818.3	3731.1	3907.0
17°	4269.4	4170.4	3927.5	3737.3	3818.8	3813.7	3882.5	3816.3	3782.1	3709.1	3901.3
18°	4301.3	4189.7	3928.3	3715.0	3781.7	3807.1	3888.4	3811.9	3740.3	3680.8	3894.8
19°	4330.8	4211.0	3922.8	3695.7	3746.8	3802.9	3893.9	3808.4	3703.9	3657.7	3887.8
20°	4362.6	4235.3	3918.8	3672.3	3708.7	3791.6	3899.7	3801.2	3666.8	3635.5	3873.2
21°	4394.8	4258.1	3907.6	3651.0	3666.6	3786.1	3902.6	3798.1	3631.9	3614.5	3864.1
22°	4426.6	4282.8	3901.8	3627.7	3629.5	3783.2	3909.5	3794.8	3600.8	3593.8	3855.0
23°	4468.9	4307.3	3895.9	3599.0	3599.5	3783.4	3917.1	3792.5	3574.2	3575.5	3850.9
24°	4504.4	4331.5	3888.1	3577.8	3568.8	3781.7	3927.0	3793.4	3547.4	3558.0	3841.6
25°	4538.7	4357.4	3884.8	3559.1	3542.1	3778.5	3933.4	3792.2	3521.0	3545.1	3829.8
26°	4572.6	4383.0	3874.6	3545.5	3513.6	3776.3	3941.5	3790.2	3492.3	3533.0	3816.4
27°	4606.4	4416.9	3865.1	3531.4	3484.7	3770.5	3954.2	3785.6	3461.5	3516.3	3799.1
28°	4637.4	4442.6	3852.8	3517.5	3449.5	3766.1	3968.3	3781.4	3429.7	3483.9	3783.2
29°	4670.8	4468.5	3839.6	3498.7	3418.2	3761.9	3978.1	3776.8	3398.5	3454.2	3768.0
30°	4702.3	4491.5	3826.8	3470.7	3385.4	3756.8	3990.2	3776.4	3359.4	3415.6	3751.7
31°	4731.3	4511.9	3815.4	3436.9	3352.1	3752.8	3997.3	3770.5	3327.1	3361.9	3730.9
32°	4756.5	4536.5	3800.1	3397.1	3312.6	3748.0	4002.4	3769.5	3295.0	3298.5	3713.9
33°	4778.3	4560.3	3787.1	3343.4	3277.7	3745.4	4004.3	3767.2	3265.5	3231.9	3696.4
34°	4795.7	4584.3	3771.8	3267.1	3243.6	3742.3	4003.4	3765.1	3233.9	3170.9	3682.1
35°	4813.7	4608.6	3754.1	3200.2	3209.7	3742.8	4004.4	3761.1	3202.1	3109.0	3662.7
36°	4820.5	4625.7	3738.5	3132.3	3176.0	3735.5	4026.7	3750.2	3168.8	3031.5	3641.2
37°	4819.9	4639.3	3722.3	3062.9	3142.9	3724.8	4053.2	3740.2	3128.9	2964.1	3620.5
38°	4811.5	4648.7	3704.7	2993.1	3108.0	3712.0	4075.6	3738.5	3094.3	2895.5	3591.3
39°	4787.2	4654.0	3687.9	2922.9	3072.7	3704.3	4053.1	3746.4	3056.1	2825.5	3574.1
40°	4761.8	4651.7	3674.8	2853.3	3027.6	3716.3	4021.7	3762.8	3014.6	2752.4	3556.8
41°	4727.7	4642.9	3661.1	2785.1	2989.5	3732.5	4031.2	3749.2	2972.8	2688.4	3542.3
42°	4684.7	4626.9	3652.4	2708.1	2948.6	3720.6	4054.7	3701.4	2933.4	2627.0	3533.5
43°	4627.5	4595.9	3645.6	2642.7	2906.6	3672.6	4057.7	3691.6	2889.6	2562.4	3522.2
44°	4559.9	4560.4	3640.4	2580.3	2858.9	3661.8	4041.8	3701.5	2841.7	2499.7	3513.1

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	*4478.8*	4515.5	3639.6	2517.2	2811.6	3672.7	4018.0	3698.7	2792.2	2436.3	3507.7
46°	*4373.0*	4458.3	3640.3	2450.0	2757.0	3670.6	3994.7	3677.5	2752.6	2368.7	3505.4
47°	*4263.9*	4390.0	3641.0	2382.2	2711.9	3651.3	3977.5	3655.7	2729.6	2291.3	3502.6
48°	*4139.1*	4305.4	3644.6	2312.7	2687.6	3629.1	3953.9	3634.1	2702.2	2222.9	3500.1
49°	*3999.7*	4207.0	3647.7	2242.3	2662.5	3606.9	3928.0	3612.2	2617.5	2154.1	3502.0
50°	*3828.7*	4095.0	3651.3	2165.6	2592.2	3585.2	3897.3	3581.6	2557.3	2084.3	3498.1
51°	*3663.1*	3946.6	3656.6	2096.4	2516.5	3555.3	3856.0	3548.0	2523.4	2013.8	3499.5
52°	*3481.6*	3799.8	3658.8	2024.4	2483.0	3524.4	3825.6	3514.6	2478.1	1940.2	3501.9
53°	*3277.0*	3636.5	3661.3	1944.9	2441.0	3490.1	3794.4	3479.0	2430.7	1869.3	3504.0
54°	*3032.6*	3443.5	3660.3	1873.2	2391.8	3453.8	3761.4	3443.8	2379.3	1797.2	3508.4
55°	*2796.3*	3249.0	3658.6	1800.4	2337.5	3419.5	3725.9	3412.2	2326.7	1723.1	3507.0
56°	*2553.3*	3028.4	3653.5	1727.9	2283.4	3388.4	3680.5	3381.4	2273.5	1637.6	3502.2
57°	*2260.2*	2760.8	3639.4	1648.5	2224.9	3353.7	3622.8	3350.9	2207.4	1561.4	3492.5
58°	*1960.3*	2499.9	3619.0	1572.1	2155.8	3322.9	3535.1	3307.9	2144.4	1486.0	3471.2
59°	*1623.3*	2233.3	3580.2	1495.9	2089.8	3288.4	3413.7	3265.5	2082.5	1402.3	3443.7
60°	*1222.5*	1953.8	3531.0	1410.2	2026.4	3247.0	3306.0	3215.5	2023.9	1326.3	3402.3
61°	*863.1*	1614.7	3460.1	1336.5	1957.8	3194.3	3091.1	3139.5	1964.2	1250.2	3344.4
62°	*575.4*	1274.8	3364.4	1262.4	1900.1	3123.9	2774.8	3028.9	1912.2	1173.3	3252.2
63°	*379.1*	911.4	3212.1	1186.1	1841.3	3030.9	2561.1	2929.6	1859.1	1098.0	3130.2
64°	*262.1*	583.5	3025.2	1103.4	1783.9	2925.8	2438.4	2715.2	1807.5	1037.5	2960.7
65°	*226.4*	333.8	2786.1	1038.1	1725.9	2682.8	2315.9	2481.4	1754.1	960.5	2730.1
66°	*211.0*	210.6	2489.8	969.2	1671.9	2462.0	2183.5	2353.5	1702.8	887.3	2404.0
67°	*199.0*	165.6	2105.4	877.4	1617.0	2352.7	2019.6	2266.7	1647.2	817.6	2045.2
68°	*186.7*	148.9	1703.7	798.2	1559.3	2259.8	1867.4	2181.5	1581.4	740.5	1651.6
69°	*175.1*	136.7	1274.2	724.0	1492.3	2175.9	1710.6	2069.3	1515.5	668.1	1177.9
70°	*165.6*	124.4	856.8	655.6	1428.3	2076.7	1530.5	1962.9	1446.4	598.7	780.7
71°	*159.1*	114.7	538.7	582.2	1358.7	1973.9	1363.2	1858.8	1369.6	526.8	478.1
72°	*150.3*	107.9	302.2	518.0	1276.2	1865.2	1188.4	1751.0	1254.4	464.3	276.4
73°	*141.5*	101.4	174.8	457.8	1165.1	1759.1	994.1	1627.4	1149.5	406.0	163.3
74°	*129.7*	93.2	134.1	402.9	1059.4	1647.8	833.2	1506.2	1086.2	348.4	133.5
75°	*120.9*	83.6	115.0	347.0	997.0	1532.6	691.0	1364.0	1019.9	302.1	115.5
76°	*111.3*	73.6	102.7	300.8	934.0	1384.1	569.3	1200.2	953.9	259.7	104.3
77°	*104.5*	66.6	95.4	261.9	869.2	1226.9	458.5	1029.1	893.1	222.2	97.1
78°	*97.6*	60.2	90.8	226.8	811.8	1067.4	370.2	886.3	836.4	185.4	94.4
79°	*91.8*	55.4	84.1	193.3	757.8	918.8	277.6	761.5	776.5	155.2	88.4
80°	*85.7*	50.6	71.3	164.7	697.3	778.5	154.2	646.8	720.0	126.7	73.3
81°	*78.1*	46.6	56.4	133.1	640.5	662.0	62.0	526.9	663.9	99.8	58.1
82°	*69.9*	42.1	44.6	98.6	584.4	548.5	44.4	403.7	609.0	74.0	44.6
83°	*49.6*	34.8	34.6	74.0	525.5	390.5	35.9	230.8	539.1	55.1	34.1
84°	*35.3*	28.7	28.7	54.0	455.9	199.5	26.2	83.4	467.2	40.0	28.0
85°	*27.8*	22.5	23.8	38.4	389.4	60.0	19.1	27.3	389.8	28.3	22.9
86°	*20.7*	17.1	19.5	25.1	315.5	22.0	11.4	16.9	319.7	18.9	18.9
87°	*12.3*	12.2	14.7	15.9	242.0	12.2	6.5	9.7	224.1	12.5	14.3
88°	*6.0*	6.8	8.8	8.2	127.6	5.7	3.6	4.6	94.1	7.8	9.1
89°	*2.9*	4.0	4.0	3.1	19.2	2.0	1.8	2.1	6.0	5.3	6.7

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	2.5	3.7	3.2	2.2	1.8	0.0	1.7	2.1	5.4	4.9	7.2
91°	2.9	4.2	3.7	2.1	1.9	0.0	2.0	2.2	6.0	5.4	7.6
92°	3.1	4.6	3.8	2.5	2.2	0.0	2.1	2.6	6.6	5.7	8.0
93°	3.8	5.3	4.5	2.6	2.6	0.0	2.5	2.9	7.2	6.3	8.7
94°	4.1	5.6	4.6	2.9	3.0	0.0	2.9	3.5	7.6	6.9	9.2
95°	4.7	6.1	5.1	3.0	3.6	1.2	3.2	4.0	8.3	7.4	9.8
96°	5.3	6.7	5.5	3.4	3.8	1.2	3.6	4.5	9.1	7.7	10.4
97°	5.8	7.3	5.9	3.7	4.0	1.3	3.9	5.1	9.8	8.4	10.9
98°	6.5	8.0	6.3	4.1	4.7	1.7	4.7	5.9	10.4	8.9	11.7
99°	7.2	8.6	6.7	4.7	5.1	1.7	5.4	6.6	11.2	9.5	12.2
100°	7.8	9.5	6.9	5.0	5.7	2.2	5.8	7.5	12.0	10.3	12.8
101°	8.5	10.2	7.6	5.5	5.9	2.7	6.7	8.2	12.7	10.8	13.3
102°	9.4	10.8	8.2	5.9	6.6	2.9	7.4	8.9	13.5	11.7	14.0
103°	10.3	11.5	8.5	6.4	7.2	3.5	8.2	10.2	14.5	12.2	14.7
104°	11.2	12.2	8.9	6.9	7.9	3.9	9.2	11.1	15.3	13.0	15.3
105°	12.2	12.7	9.5	7.4	8.5	4.5	10.1	12.0	16.1	13.5	15.9
106°	13.0	13.5	10.1	8.0	9.2	5.3	10.9	13.1	17.2	14.4	16.4
107°	13.6	14.3	10.6	8.4	9.8	5.8	12.2	14.1	17.9	15.1	17.1
108°	14.5	15.0	11.2	9.1	10.5	6.5	13.3	15.4	18.9	15.8	17.9
109°	15.5	15.6	11.8	9.7	11.4	7.3	14.2	16.3	19.8	16.5	18.4
110°	16.1	16.4	12.2	10.4	12.0	8.2	15.5	17.5	20.9	17.3	19.0
111°	17.2	17.2	12.8	10.9	12.8	8.9	16.6	18.8	21.4	18.0	19.5
112°	18.0	18.0	13.4	11.5	13.3	9.9	17.9	20.0	22.3	18.8	20.1
113°	19.0	18.8	14.0	12.2	14.2	10.7	19.1	20.9	23.1	19.4	20.9
114°	19.9	19.5	14.6	13.0	14.6	11.7	20.3	22.5	23.8	20.2	21.2
115°	20.7	20.2	15.0	13.5	15.2	12.8	21.6	23.7	24.5	21.0	21.9
116°	21.4	20.8	15.6	14.1	15.6	13.9	22.9	24.9	25.2	21.8	22.6
117°	22.3	21.6	16.2	14.7	16.6	14.9	24.0	25.9	25.9	22.6	23.2
118°	23.2	22.3	16.8	15.5	17.0	15.9	25.6	27.3	26.8	23.2	23.8
119°	23.8	23.0	17.3	16.1	17.8	16.9	26.8	28.1	27.4	24.1	24.5
120°	24.8	23.6	18.1	16.6	18.5	18.0	28.0	29.2	27.9	24.8	24.8
121°	25.5	24.1	18.7	17.5	19.0	19.0	29.4	30.2	28.6	25.4	25.4
122°	26.2	24.8	19.3	18.0	19.8	19.8	30.5	31.3	28.9	26.1	25.8
123°	26.8	25.5	19.8	18.9	20.4	20.9	31.6	32.3	29.7	26.8	26.4
124°	27.5	25.9	20.3	19.3	21.1	21.7	32.6	33.0	30.4	27.5	26.6
125°	28.1	26.6	20.9	20.0	21.7	22.5	33.7	34.0	31.1	28.0	27.5
126°	28.8	27.3	21.2	20.9	22.6	23.5	34.5	34.7	31.8	28.5	27.7
127°	29.5	27.8	21.9	21.4	23.3	24.2	35.3	35.3	32.2	29.2	28.4
128°	29.8	28.4	22.5	22.1	24.0	25.0	36.3	36.2	33.0	29.5	28.9
129°	30.6	28.8	22.7	22.7	24.8	25.6	37.0	36.9	33.7	29.9	29.3
130°	31.5	29.5	23.6	23.2	25.6	26.5	37.9	37.3	34.2	30.6	29.7
131°	32.3	29.8	23.8	23.8	26.6	27.1	38.5	37.9	34.6	31.3	30.0
132°	32.3	30.4	24.4	24.4	27.4	28.0	39.2	38.5	35.4	31.5	30.7
133°	32.8	30.8	25.1	24.8	28.0	28.7	39.9	39.1	36.0	32.0	30.8
134°	33.2	31.2	25.6	25.5	29.0	29.3	40.4	39.5	36.8	32.4	31.5

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

Scaled Data Report

REPORT NUMBER: P1449819
CATALOG NUMBER: TWC100_T2_40W_4000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
135°	33.6	31.8	26.0	25.8	29.8	30.2	41.1	39.8	37.1	32.7	32.0
136°	34.4	32.3	26.6	26.5	30.6	30.8	41.4	40.1	37.6	33.2	32.3
137°	34.6	32.2	27.0	26.9	31.6	31.7	41.8	40.7	38.0	33.6	32.3
138°	35.3	32.6	27.6	27.6	32.2	32.3	42.3	41.1	38.3	34.1	33.0
139°	35.5	33.1	27.9	28.0	32.8	33.0	42.2	41.3	38.7	34.4	33.3
140°	36.0	33.4	28.4	28.5	33.5	33.9	42.9	41.8	39.1	34.7	33.7
141°	36.2	33.9	28.8	28.9	34.1	34.6	43.1	42.0	39.3	35.0	34.1
142°	36.9	34.1	29.2	29.5	34.7	35.6	43.6	42.1	39.8	35.6	34.6
143°	37.0	34.3	30.0	30.0	35.3	36.2	43.6	42.6	40.1	36.1	34.7
144°	37.1	34.6	30.0	30.5	35.9	37.2	44.0	42.8	40.3	36.5	35.3
145°	37.2	35.1	30.6	30.6	36.4	37.8	43.9	42.9	40.4	36.8	35.5
146°	37.5	35.0	31.1	31.2	36.6	38.4	44.1	43.1	40.8	37.2	35.9
147°	37.6	35.4	31.5	31.7	37.1	39.1	44.2	43.1	40.9	37.5	36.2
148°	37.8	35.6	32.0	32.1	37.4	39.7	44.2	43.5	41.2	37.5	36.6
149°	38.1	35.9	32.4	32.4	37.6	40.1	44.4	43.6	41.2	38.2	37.1
150°	38.0	36.0	32.7	33.1	38.0	40.6	44.1	43.6	41.6	38.4	37.1
151°	38.4	36.4	33.1	33.2	38.3	41.2	44.2	43.5	41.4	38.8	37.5
152°	38.5	36.3	33.4	33.9	38.5	41.6	44.2	43.6	41.7	39.1	37.8
153°	38.7	36.6	34.0	34.0	38.8	41.9	44.1	43.6	41.9	39.5	38.1
154°	38.7	36.6	34.2	34.7	39.0	41.9	43.9	43.6	41.9	39.4	38.3
155°	38.8	37.1	34.7	34.7	39.3	42.2	43.9	43.6	41.9	39.5	38.7
156°	38.9	37.1	35.0	35.5	39.4	42.5	43.8	43.3	41.8	39.9	38.9
157°	38.9	37.3	35.3	35.8	39.7	42.2	43.5	43.6	41.9	40.1	39.0
158°	39.3	37.2	35.9	36.1	40.0	42.7	43.3	43.0	41.9	40.6	39.2
159°	39.1	37.6	36.1	36.5	40.0	42.7	43.1	43.2	42.1	40.7	39.5
160°	39.2	37.8	36.5	37.3	40.2	42.8	42.9	43.0	42.1	40.7	39.8
161°	39.3	38.1	36.8	37.2	40.3	42.8	42.9	43.1	42.0	41.0	39.9
162°	39.3	38.2	37.1	37.5	40.6	43.0	42.9	43.0	42.0	41.0	40.0
163°	39.4	38.3	37.4	38.0	40.9	43.0	42.8	42.8	42.0	41.3	40.2
164°	39.7	38.4	37.9	38.5	41.0	43.0	42.6	42.8	42.1	41.3	40.2
165°	39.8	38.8	37.9	38.7	41.1	43.0	42.2	42.7	42.1	41.4	40.4
166°	39.9	38.9	38.2	38.9	41.2	43.0	42.1	42.5	42.2	41.4	40.6
167°	39.9	39.1	38.5	39.2	41.4	43.0	42.5	42.7	42.2	41.9	40.9
168°	40.0	39.1	38.9	39.5	41.4	43.0	42.3	42.7	42.1	41.9	41.0
169°	40.1	39.5	39.1	39.8	41.7	43.0	42.0	42.5	42.2	42.1	41.1
170°	40.2	39.7	39.5	40.3	41.9	42.9	42.0	42.1	42.3	42.0	41.2
171°	40.4	39.8	39.5	40.6	42.1	43.1	42.3	42.5	41.9	42.3	41.3
172°	40.7	39.9	40.2	40.8	42.0	42.9	42.2	42.2	42.2	42.3	41.8
173°	40.9	40.1	40.1	41.1	42.0	42.9	42.3	42.0	42.2	42.6	41.7
174°	41.1	40.3	40.7	41.3	42.0	42.8	42.3	42.2	42.0	42.7	41.9
175°	41.3	40.7	40.9	41.7	42.1	42.8	42.3	42.1	42.2	42.6	42.0
176°	41.8	40.9	41.1	41.6	42.2	42.8	42.5	42.3	42.1	42.8	42.0
177°	41.9	41.1	41.1	42.1	42.1	42.9	42.5	41.8	41.8	42.7	42.2
178°	41.9	41.3	41.3	42.0	42.2	42.8	42.1	42.0	41.9	42.7	42.1
179°	42.0	41.6	41.9	42.3	42.3	42.7	42.3	41.9	42.0	42.5	42.5

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

Scaled Data Report

REPORT NUMBER: P1449819
CATALOG NUMBER: TWC100_T2_40W_4000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
180°	*42.2*	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1449819
CATALOG NUMBER: TWC100_T2_40W_4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	3927.0	3927.0
1°	3940.9	3941.2
2°	3960.0	3955.9
3°	3971.8	3975.9
4°	3983.3	3991.9
5°	3990.6	4005.0
6°	4000.8	4025.6
7°	4011.4	4040.9
8°	4021.5	4057.3
9°	4035.5	4073.6
10°	4047.4	4091.9
11°	4060.0	4111.5
12°	4074.6	4135.3
13°	4086.5	4157.1
14°	4102.2	4181.5
15°	4117.9	4207.0
16°	4140.0	4242.0
17°	4159.1	4269.4
18°	4179.0	4301.3
19°	4198.6	4330.8
20°	4221.9	4362.6
21°	4243.9	4394.8
22°	4266.9	4426.6
23°	4291.3	4468.9
24°	4313.5	4504.4
25°	4339.3	4538.7
26°	4362.9	4572.6
27°	4390.7	4606.4
28°	4415.1	4637.4
29°	4439.3	4670.8
30°	4460.5	4702.3
31°	4480.6	4731.3
32°	4503.3	4756.5
33°	4525.1	4778.3
34°	4543.8	4795.7
35°	4564.7	4813.7
36°	*4578.1*	*4820.5*
37°	4587.2	4819.9
38°	4593.0	4811.5
39°	4591.6	4787.2
40°	4584.2	4761.8
41°	4573.5	4727.7
42°	4553.0	4684.7
43°	4518.4	4627.5
44°	4480.2	4559.9

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1449819
CATALOG NUMBER: TWC100_T2_40W_4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	4432.0	4478.8
46°	4370.9	4373.0
47°	4300.6	4263.9
48°	4214.2	4139.1
49°	4113.6	3999.7
50°	3980.8	3828.7
51°	3845.2	3663.1
52°	3692.9	3481.6
53°	3525.0	3277.0
54°	3325.4	3032.6
55°	3120.9	2796.3
56°	2889.3	2553.3
57°	2640.8	2260.2
58°	2353.3	1960.3
59°	2082.1	1623.3
60°	1788.2	1222.5
61°	1467.1	863.1
62°	1086.8	575.4
63°	737.6	379.1
64°	453.7	262.1
65°	270.6	226.4
66°	178.4	211.0
67°	153.8	199.0
68°	139.9	186.7
69°	126.1	175.1
70°	114.6	165.6
71°	106.9	159.1
72°	100.9	150.3
73°	93.1	141.5
74°	84.5	129.7
75°	75.3	120.9
76°	67.6	111.3
77°	61.0	104.5
78°	55.3	97.6
79°	51.6	91.8
80°	47.9	85.7
81°	44.1	78.1
82°	39.2	69.9
83°	32.7	49.6
84°	27.5	35.3
85°	21.0	27.8
86°	17.2	20.7
87°	13.2	12.3
88°	9.2	6.0
89°	8.5	2.9

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

REPORT NUMBER: P1449819
CATALOG NUMBER: TWC100_T2_40W_4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
90°	9.2	2.5
91°	9.8	2.9
92°	10.7	3.1
93°	11.4	3.8
94°	12.3	4.1
95°	13.1	4.7
96°	13.9	5.3
97°	14.9	5.8
98°	15.6	6.5
99°	16.5	7.2
100°	17.5	7.8
101°	18.2	8.5
102°	19.0	9.4
103°	19.7	10.3
104°	20.8	11.2
105°	21.4	12.2
106°	22.2	13.0
107°	23.1	13.6
108°	23.9	14.5
109°	24.6	15.5
110°	25.2	16.1
111°	26.1	17.2
112°	26.8	18.0
113°	27.7	19.0
114°	28.3	19.9
115°	28.8	20.7
116°	29.5	21.4
117°	30.2	22.3
118°	30.6	23.2
119°	31.1	23.8
120°	31.6	24.8
121°	32.2	25.5
122°	32.2	26.2
123°	32.6	26.8
124°	33.2	27.5
125°	33.5	28.1
126°	33.7	28.8
127°	34.2	29.5
128°	34.5	29.8
129°	34.5	30.6
130°	35.1	31.5
131°	35.2	32.3
132°	35.3	32.3
133°	35.5	32.8
134°	36.0	33.2

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Scaled Data Report

REPORT NUMBER: P1449819
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CANDELA DISTRIBUTION (continued):

	330°	360°
135°	36.1	33.6
136°	36.3	34.4
137°	36.5	34.6
138°	36.8	35.3
139°	37.1	35.5
140°	36.9	36.0
141°	37.0	36.2
142°	37.2	36.9
143°	37.5	37.0
144°	37.5	37.1
145°	37.6	37.2
146°	37.8	37.5
147°	38.2	37.6
148°	38.0	37.8
149°	38.1	38.1
150°	38.2	38.0
151°	38.5	38.4
152°	38.7	38.5
153°	38.9	38.7
154°	38.8	38.7
155°	38.8	38.8
156°	39.0	38.9
157°	39.2	38.9
158°	39.2	39.3
159°	39.3	39.1
160°	39.3	39.2
161°	39.4	39.3
162°	39.5	39.3
163°	39.5	39.4
164°	39.8	39.7
165°	40.0	39.8
166°	40.1	39.9
167°	40.3	39.9
168°	40.4	40.0
169°	40.6	40.1
170°	40.7	40.2
171°	41.0	40.4
172°	40.9	40.7
173°	41.3	40.9
174°	41.6	41.1
175°	41.7	41.3
176°	41.8	41.8
177°	41.8	41.9
178°	42.2	41.9
179°	42.3	42.0

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

REPORT NUMBER: P1449819
CATALOG NUMBER: TWC100_T2_40W_4000K

CANDELA DISTRIBUTION (continued):

	330°	360°
180°	42.2	42.2

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

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

Report Prepared for

Cooper Lighting Solutions

Lumark

Report Number: SP1-2601-659-2

Test Date: 02/12/2026

Luminaire Tested: MWP2460W34VDDKYYAD-T4-24W-4000K

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.05

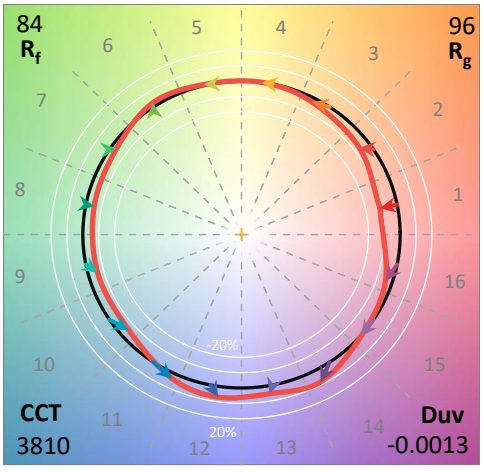
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2601-659-2
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	02/16/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Lumark
Catalog Number:	**MWP2460W34VDDKYYAD-T4-24W-4000K**
Description:	Mester Wedge, at T4 beam setting, 24W output, 4000K

Spectral Parameters

CCT (K):	3810
CIE u':	0.2295
CIE v':	0.5035
Duv:	-0.0013
CIE x:	0.3881
CIE y:	0.3785
CIE z:	0.2334
Peak Wavelength (nm):	453
Dominant Wavelength (nm):	580
Purity:	30.07368
Rf:	84.4
Rg:	96.5

CRI (Ra):	84.5
R1:	83.7
R2:	90.7
R3:	95.1
R4:	83.6
R5:	83.4
R6:	86.7
R7:	86.3
R8:	66.5
R9:	15.9
R10:	77.2
R11:	83.0
R12:	62.4
R13:	85.6
R14:	97.4
R15:	77.9



Test Conditions

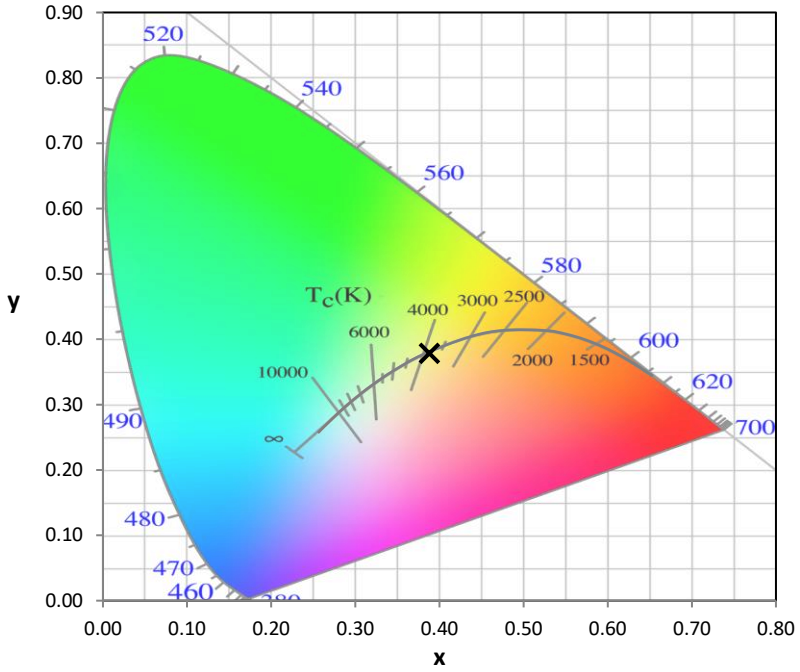
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2601-659-2

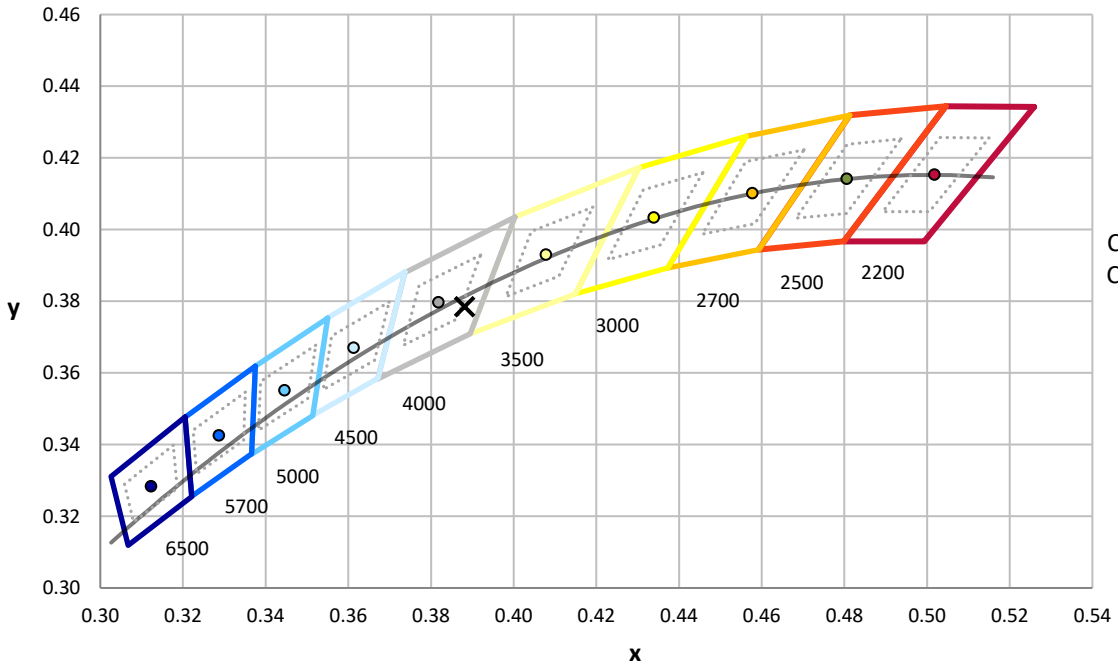
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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

REPORT NUMBER: SP1-2601-659-2

CIE 1931 Chromaticity Diagram



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



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

Point lies inside the ANSI 4000K 7-step quadrangle

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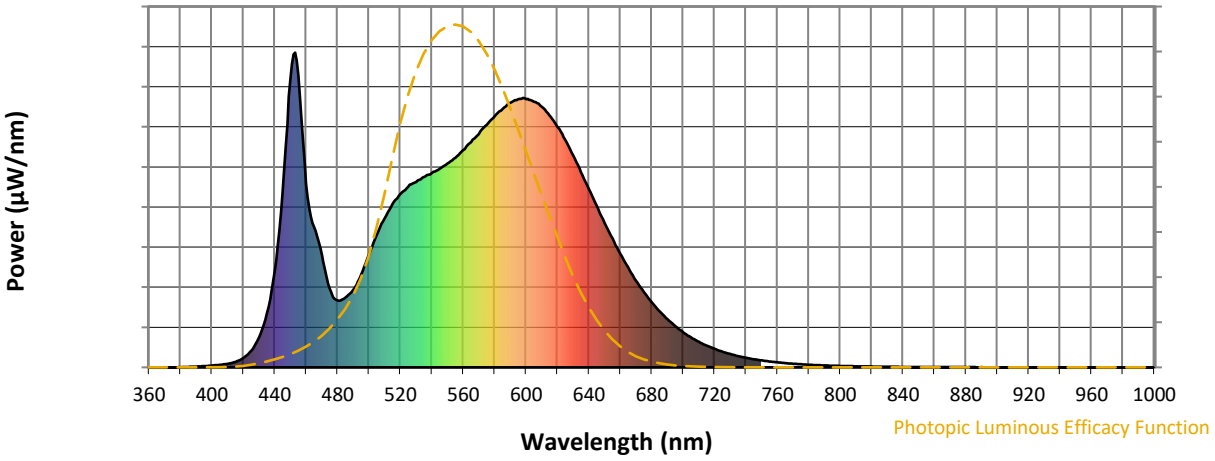
Photopic Flux vs. Wavelength



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	247	NR	620	764	NR	750	22	NR	880	1	NR
365	0	NR	495	294	NR	625	723	NR	755	19	NR	885	1	NR
370	0	NR	500	359	NR	630	674	NR	760	16	NR	890	1	NR
375	0	NR	505	421	NR	635	620	NR	765	14	NR	895	0	NR
380	1	NR	510	474	NR	640	566	NR	770	12	NR	900	0	NR
385	1	NR	515	518	NR	645	512	NR	775	10	NR	905	0	NR
390	3	NR	520	552	NR	650	459	NR	780	8	NR	910	0	NR
395	4	NR	525	574	NR	655	410	NR	785	7	NR	915	0	NR
400	6	NR	530	589	NR	660	361	NR	790	6	NR	920	0	NR
405	8	NR	535	605	NR	665	317	NR	795	5	NR	925	0	NR
410	11	NR	540	617	NR	670	276	NR	800	5	NR	930	0	NR
415	18	NR	545	632	NR	675	239	NR	805	4	NR	935	0	NR
420	30	NR	550	648	NR	680	207	NR	810	3	NR	940	0	NR
425	53	NR	555	666	NR	685	178	NR	815	3	NR	945	0	NR
430	95	NR	560	690	NR	690	153	NR	820	3	NR	950	0	NR
435	173	NR	565	716	NR	695	131	NR	825	2	NR	955	0	NR
440	304	NR	570	742	NR	700	112	NR	830	2	NR	960	0	NR
445	559	NR	575	771	NR	705	95	NR	835	2	NR	965	0	NR
450	915	NR	580	798	NR	710	81	NR	840	1	NR	970	0	NR
455	929	NR	585	820	NR	715	69	NR	845	1	NR	975	0	NR
460	582	NR	590	841	NR	720	59	NR	850	1	NR	980	0	NR
465	446	NR	595	852	NR	725	50	NR	855	1	NR	985	0	NR
470	356	NR	600	852	NR	730	42	NR	860	1	NR	990	0	NR
475	250	NR	605	845	NR	735	36	NR	865	1	NR	995	0	NR
480	212	NR	610	827	NR	740	30	NR	870	1	NR	1000	0	NR
485	221	NR	615	801	NR	745	26	NR	875	1	NR			

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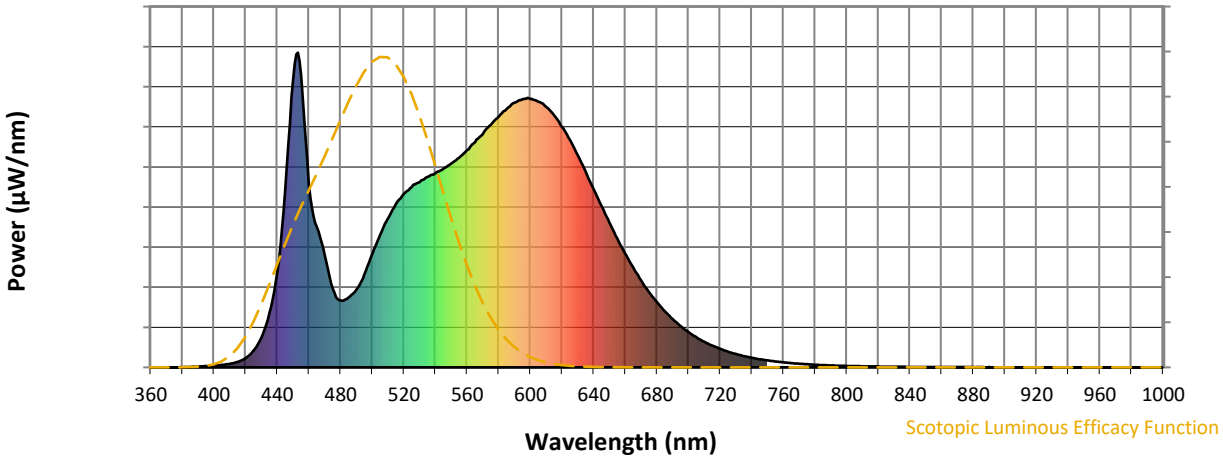
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.64**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	247	NR	620	764	NR	750	22	NR	880	1	NR
365	0	NR	495	294	NR	625	723	NR	755	19	NR	885	1	NR
370	0	NR	500	359	NR	630	674	NR	760	16	NR	890	1	NR
375	0	NR	505	421	NR	635	620	NR	765	14	NR	895	0	NR
380	1	NR	510	474	NR	640	566	NR	770	12	NR	900	0	NR
385	1	NR	515	518	NR	645	512	NR	775	10	NR	905	0	NR
390	3	NR	520	552	NR	650	459	NR	780	8	NR	910	0	NR
395	4	NR	525	574	NR	655	410	NR	785	7	NR	915	0	NR
400	6	NR	530	589	NR	660	361	NR	790	6	NR	920	0	NR
405	8	NR	535	605	NR	665	317	NR	795	5	NR	925	0	NR
410	11	NR	540	617	NR	670	276	NR	800	5	NR	930	0	NR
415	18	NR	545	632	NR	675	239	NR	805	4	NR	935	0	NR
420	30	NR	550	648	NR	680	207	NR	810	3	NR	940	0	NR
425	53	NR	555	666	NR	685	178	NR	815	3	NR	945	0	NR
430	95	NR	560	690	NR	690	153	NR	820	3	NR	950	0	NR
435	173	NR	565	716	NR	695	131	NR	825	2	NR	955	0	NR
440	304	NR	570	742	NR	700	112	NR	830	2	NR	960	0	NR
445	559	NR	575	771	NR	705	95	NR	835	2	NR	965	0	NR
450	915	NR	580	798	NR	710	81	NR	840	1	NR	970	0	NR
455	929	NR	585	820	NR	715	69	NR	845	1	NR	975	0	NR
460	582	NR	590	841	NR	720	59	NR	850	1	NR	980	0	NR
465	446	NR	595	852	NR	725	50	NR	855	1	NR	985	0	NR
470	356	NR	600	852	NR	730	42	NR	860	1	NR	990	0	NR
475	250	NR	605	845	NR	735	36	NR	865	1	NR	995	0	NR
480	212	NR	610	827	NR	740	30	NR	870	1	NR	1000	0	NR
485	221	NR	615	801	NR	745	26	NR	875	1	NR			

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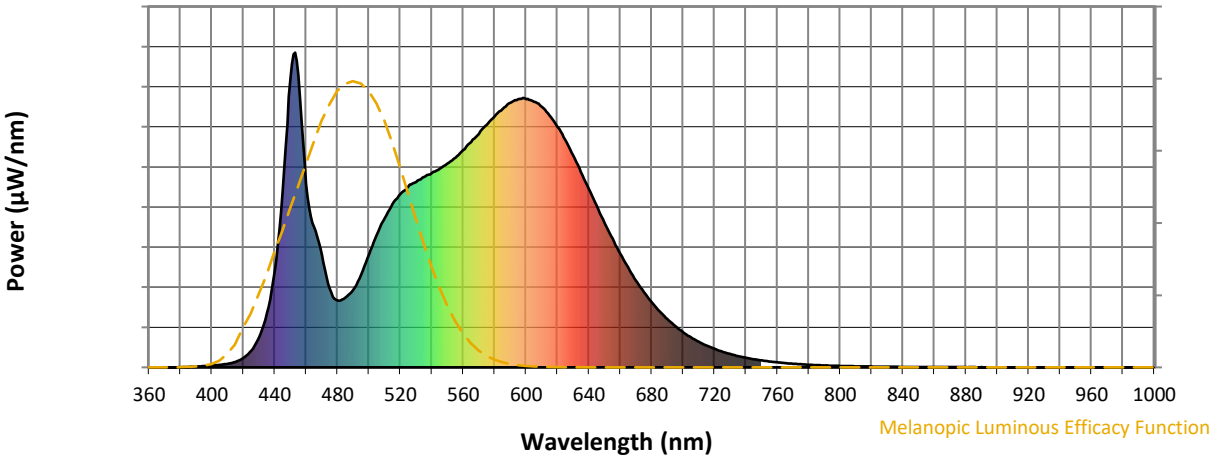
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.35**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	247	NR	620	764	NR	750	22	NR	880	1	NR
365	0	NR	495	294	NR	625	723	NR	755	19	NR	885	1	NR
370	0	NR	500	359	NR	630	674	NR	760	16	NR	890	1	NR
375	0	NR	505	421	NR	635	620	NR	765	14	NR	895	0	NR
380	1	NR	510	474	NR	640	566	NR	770	12	NR	900	0	NR
385	1	NR	515	518	NR	645	512	NR	775	10	NR	905	0	NR
390	3	NR	520	552	NR	650	459	NR	780	8	NR	910	0	NR
395	4	NR	525	574	NR	655	410	NR	785	7	NR	915	0	NR
400	6	NR	530	589	NR	660	361	NR	790	6	NR	920	0	NR
405	8	NR	535	605	NR	665	317	NR	795	5	NR	925	0	NR
410	11	NR	540	617	NR	670	276	NR	800	5	NR	930	0	NR
415	18	NR	545	632	NR	675	239	NR	805	4	NR	935	0	NR
420	30	NR	550	648	NR	680	207	NR	810	3	NR	940	0	NR
425	53	NR	555	666	NR	685	178	NR	815	3	NR	945	0	NR
430	95	NR	560	690	NR	690	153	NR	820	3	NR	950	0	NR
435	173	NR	565	716	NR	695	131	NR	825	2	NR	955	0	NR
440	304	NR	570	742	NR	700	112	NR	830	2	NR	960	0	NR
445	559	NR	575	771	NR	705	95	NR	835	2	NR	965	0	NR
450	915	NR	580	798	NR	710	81	NR	840	1	NR	970	0	NR
455	929	NR	585	820	NR	715	69	NR	845	1	NR	975	0	NR
460	582	NR	590	841	NR	720	59	NR	850	1	NR	980	0	NR
465	446	NR	595	852	NR	725	50	NR	855	1	NR	985	0	NR
470	356	NR	600	852	NR	730	42	NR	860	1	NR	990	0	NR
475	250	NR	605	845	NR	735	36	NR	865	1	NR	995	0	NR
480	212	NR	610	827	NR	740	30	NR	870	1	NR	1000	0	NR
485	221	NR	615	801	NR	745	26	NR	875	1	NR			

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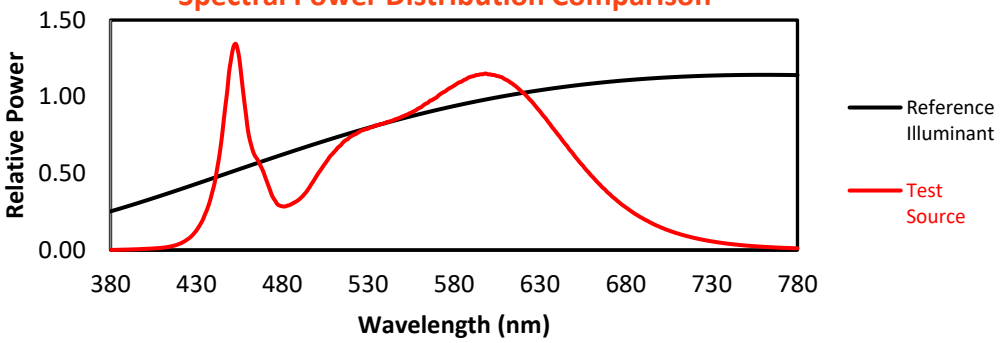
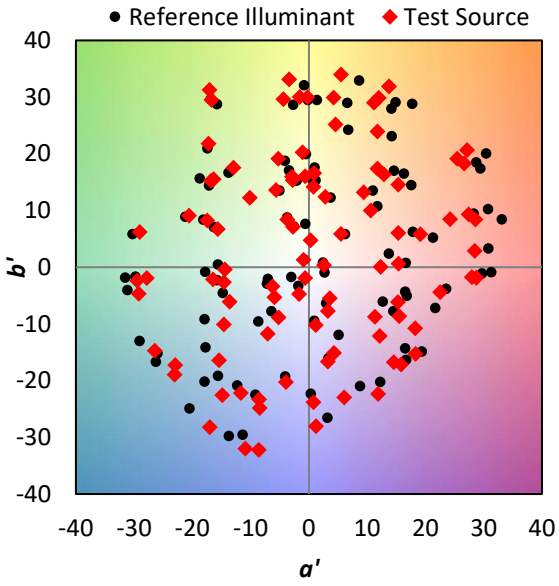
Summary

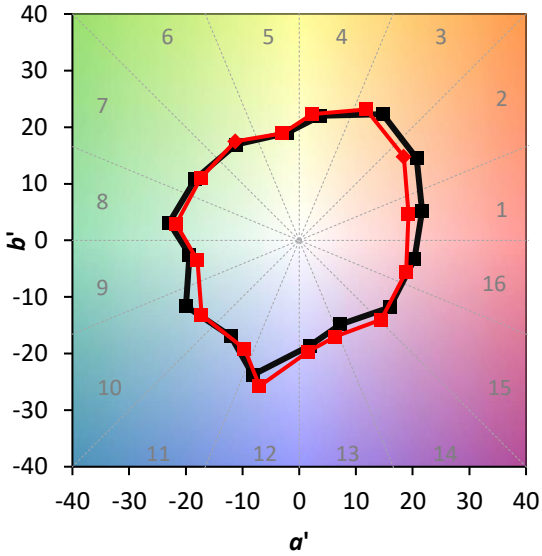
R_f = 84.4
R_g = 96.5
CIE R_a = 84.5
R_9 = 15.9

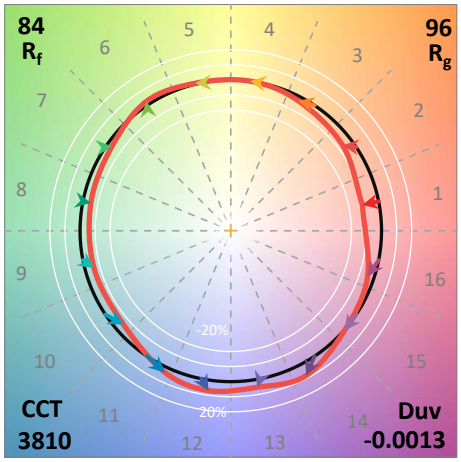
Spectral Power Distribution Comparison

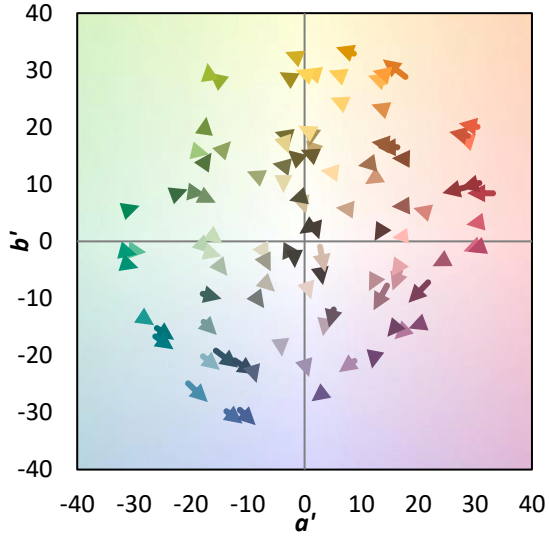


Color Vector Graphics









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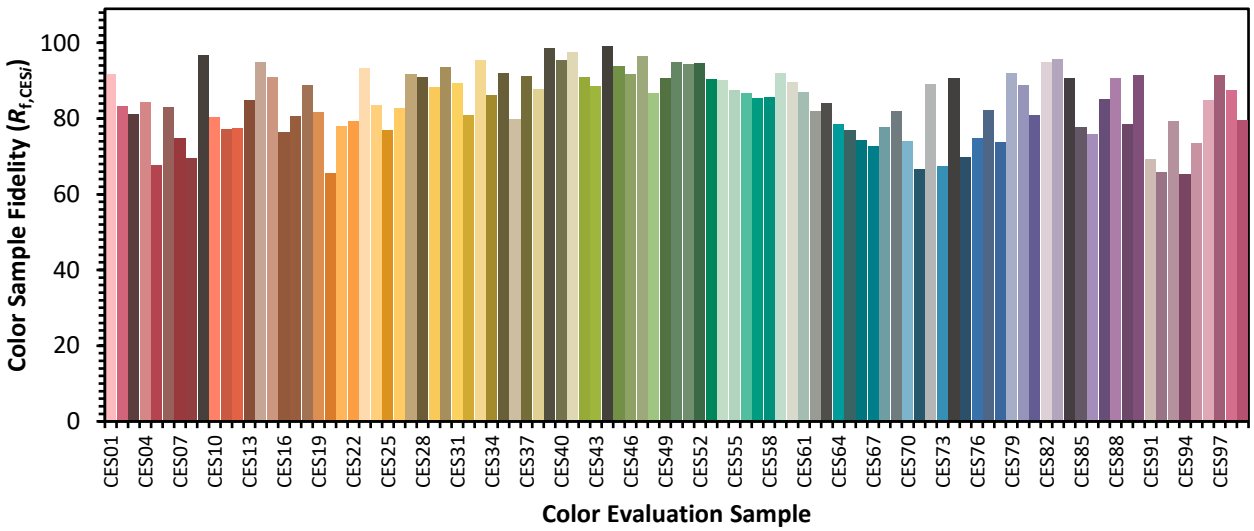
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 83	CES51 = 94	CES76 = 75
CES02 = 62	CES27 = 92	CES52 = 95	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 90	CES78 = 74
CES04 = 70	CES29 = 88	CES54 = 90	CES79 = 92
CES05 = 48	CES30 = 94	CES55 = 88	CES80 = 89
CES06 = 51	CES31 = 89	CES56 = 87	CES81 = 81
CES07 = 41	CES32 = 81	CES57 = 86	CES82 = 95
CES08 = 40	CES33 = 95	CES58 = 86	CES83 = 96
CES09 = 29	CES34 = 86	CES59 = 92	CES84 = 91
CES10 = 75	CES35 = 92	CES60 = 90	CES85 = 78
CES11 = 57	CES36 = 80	CES61 = 87	CES86 = 76
CES12 = 63	CES37 = 91	CES62 = 82	CES87 = 85
CES13 = 43	CES38 = 88	CES63 = 84	CES88 = 91
CES14 = 74	CES39 = 98	CES64 = 79	CES89 = 78
CES15 = 71	CES40 = 96	CES65 = 77	CES90 = 92
CES16 = 47	CES41 = 98	CES66 = 74	CES91 = 69
CES17 = 49	CES42 = 91	CES67 = 73	CES92 = 66
CES18 = 56	CES43 = 89	CES68 = 78	CES93 = 79
CES19 = 71	CES44 = 99	CES69 = 82	CES94 = 65
CES20 = 65	CES45 = 94	CES70 = 74	CES95 = 74
CES21 = 86	CES46 = 92	CES71 = 67	CES96 = 85
CES22 = 78	CES47 = 97	CES72 = 89	CES97 = 91
CES23 = 91	CES48 = 87	CES73 = 68	CES98 = 87
CES24 = 90	CES49 = 91	CES74 = 91	CES99 = 80
CES25 = 71	CES50 = 95	CES75 = 70	



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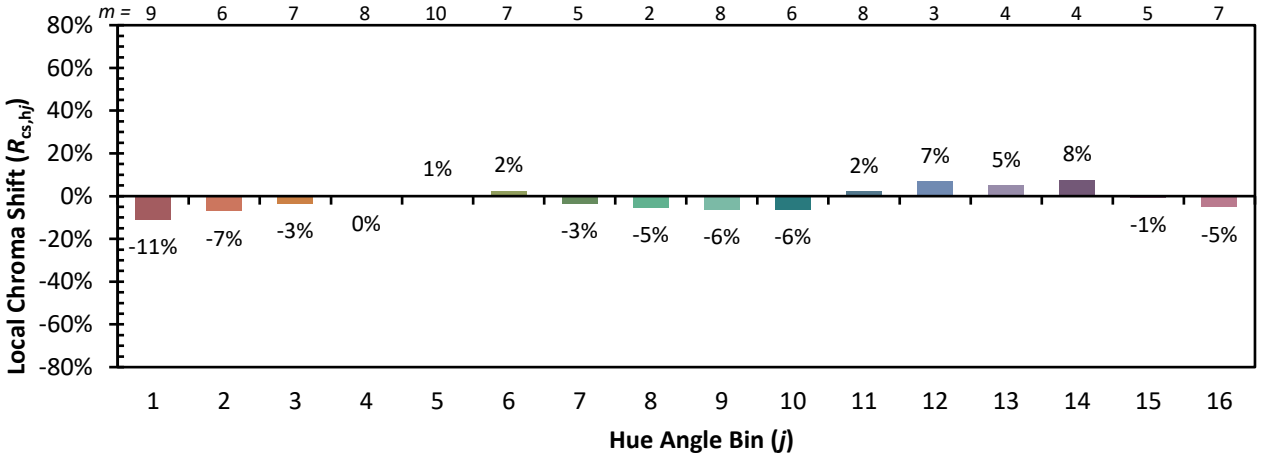
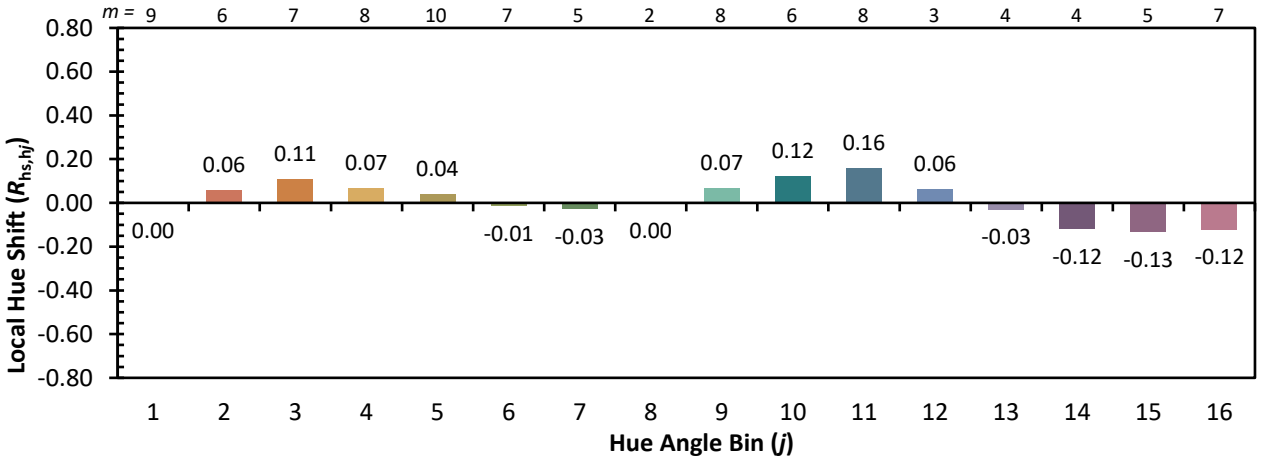
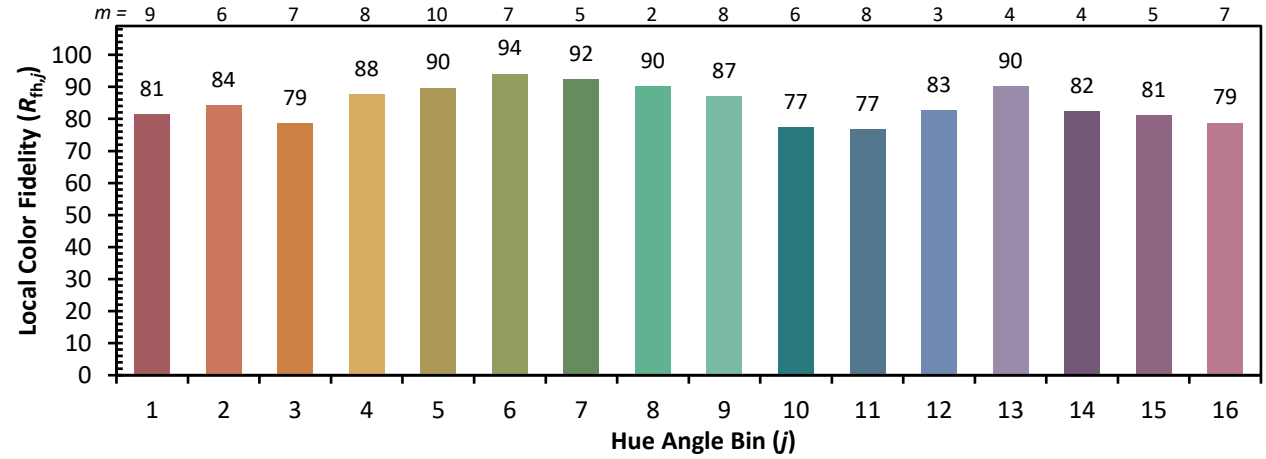
Color Rendition by Hue-Angle Bin







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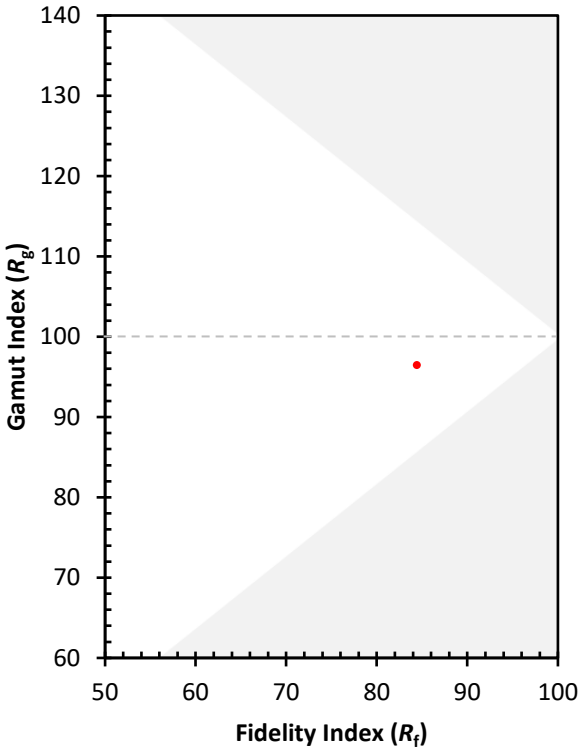
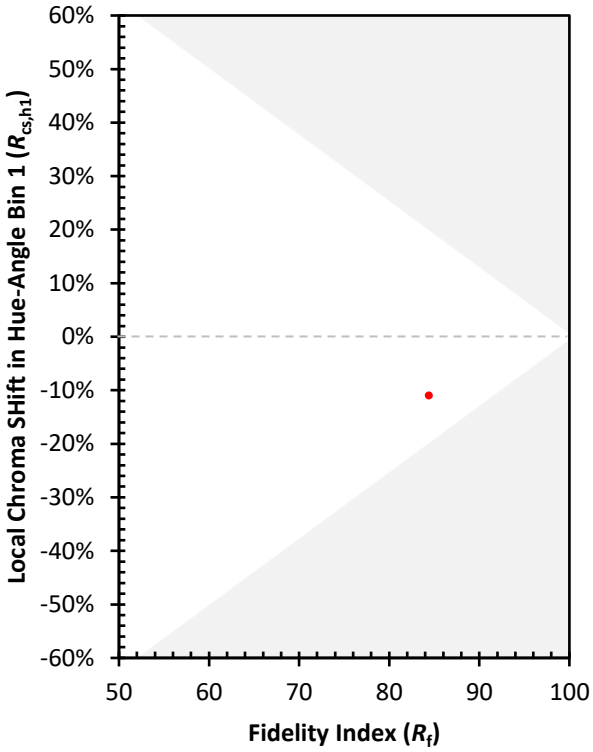
Measure Comparisons





(END OF REPORT)