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: P1449842

Luminaire Tested: **TWC100_T4_40W_3000K**

Issue Date: 5/19/2026

Report Generated By 670246072

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

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1449842
	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_40W_3000K
Description:	Tapered Wall Cutoff Wall Mount Luminaire at, T4 distribution, 40W 3000K settings
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	12340 lumens
Efficiency:	N/A
Efficacy:	156.8 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):	78.7
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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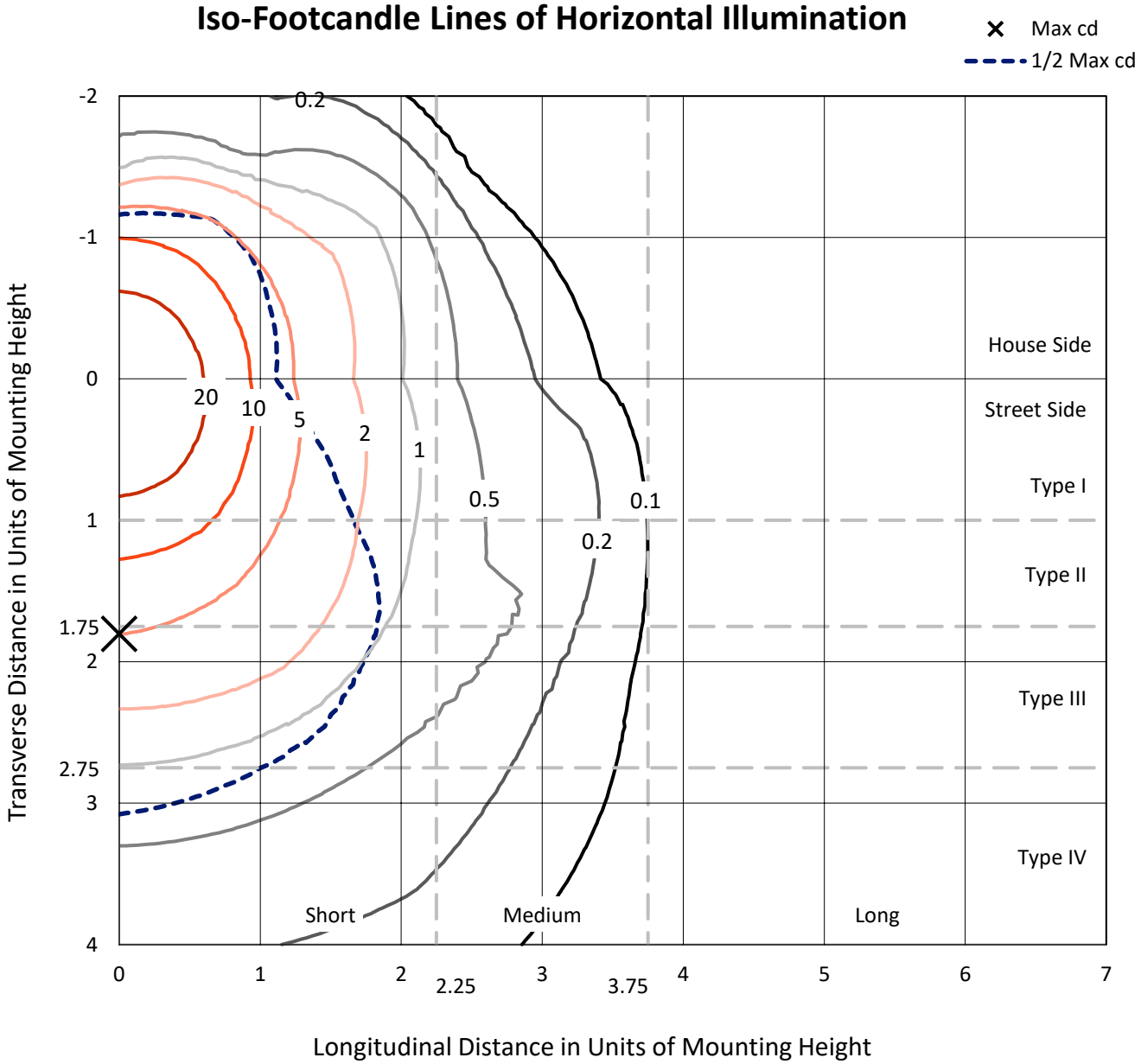
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 39.2 fc
Type IV - Short - N/A

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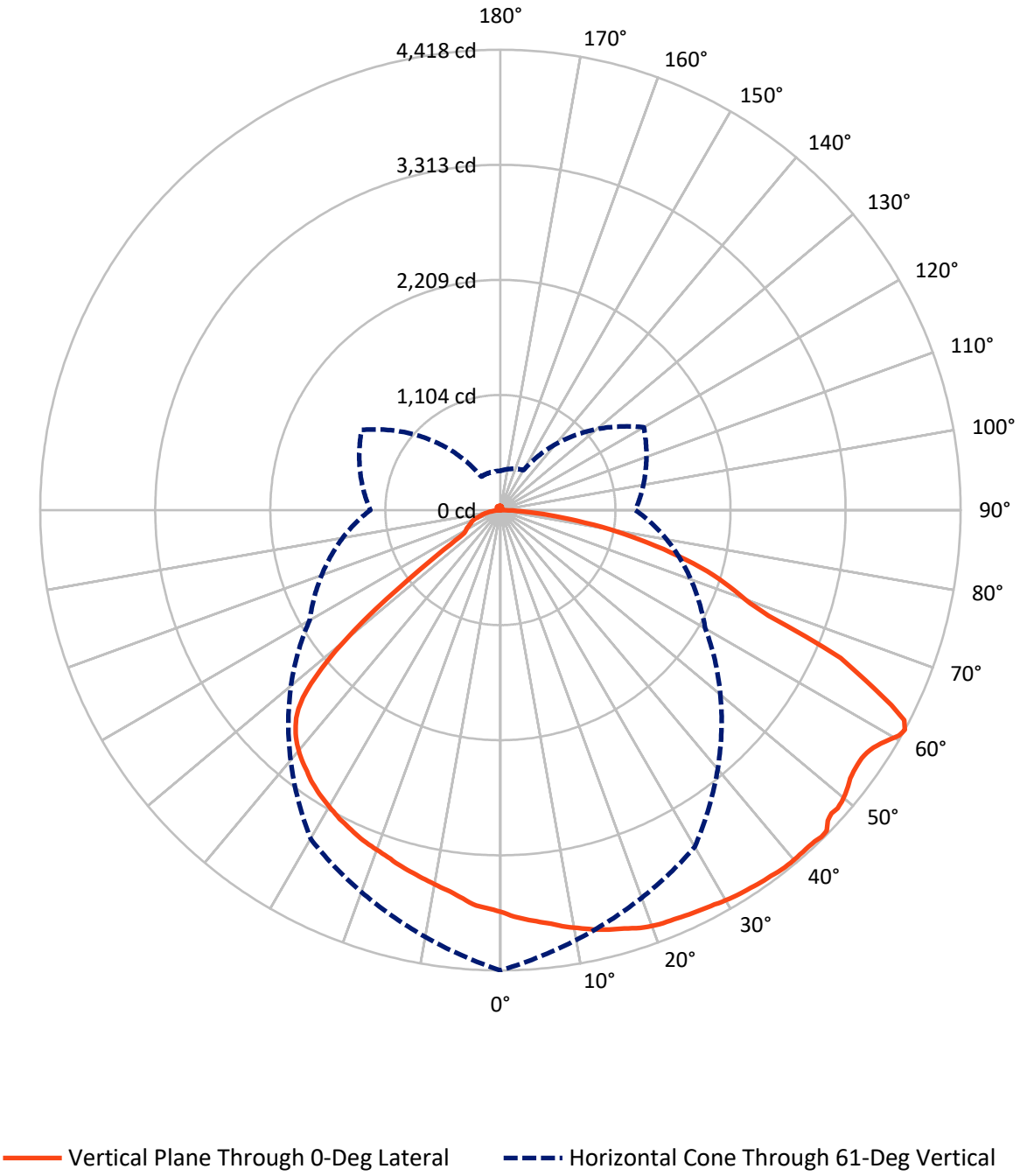
Luminous Intensity Polar Plot



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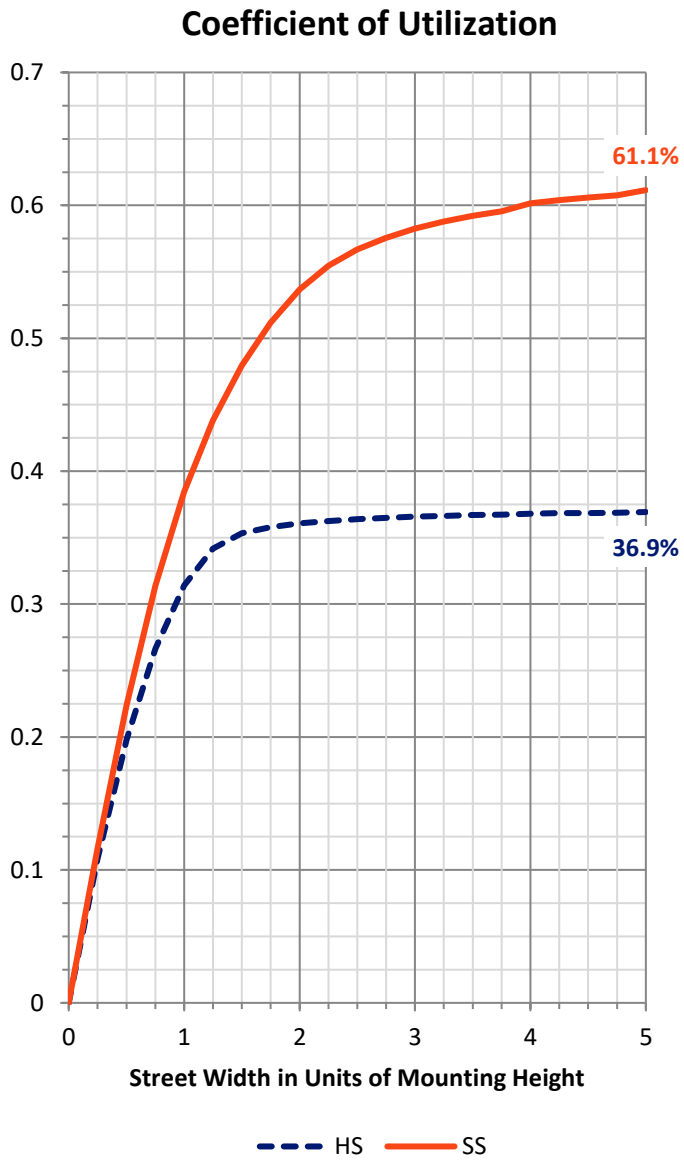
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4589.7	81.9	4671.7
	% Fixture	37.2	0.7	37.9
Street Side	Lumens	7617.0	51.3	7668.3
	% Fixture	61.7	0.4	62.1
Total	Lumens	12206.8	133.2	12340.0
	% Fixture	98.9	1.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.4	3.0
10°-20°	1068.5	8.7
20°-30°	1667.6	13.5
30°-40°	2105.9	17.1
40°-50°	2321.7	18.8
50°-60°	2097.4	17.0
60°-70°	1584.5	12.8
70°-80°	801.8	6.5
80°-90°	192.0	1.6
90°-100°	7.1	0.1
100°-110°	12.5	0.1
110°-120°	17.9	0.1
120°-130°	21.5	0.2
130°-140°	22.4	0.2
140°-150°	20.6	0.2
150°-160°	16.6	0.1
160°-170°	10.8	0.1
170°-180°	3.8	0.0
0°-90°	12206.8	98.9
0°-180°	12340.0	100.0



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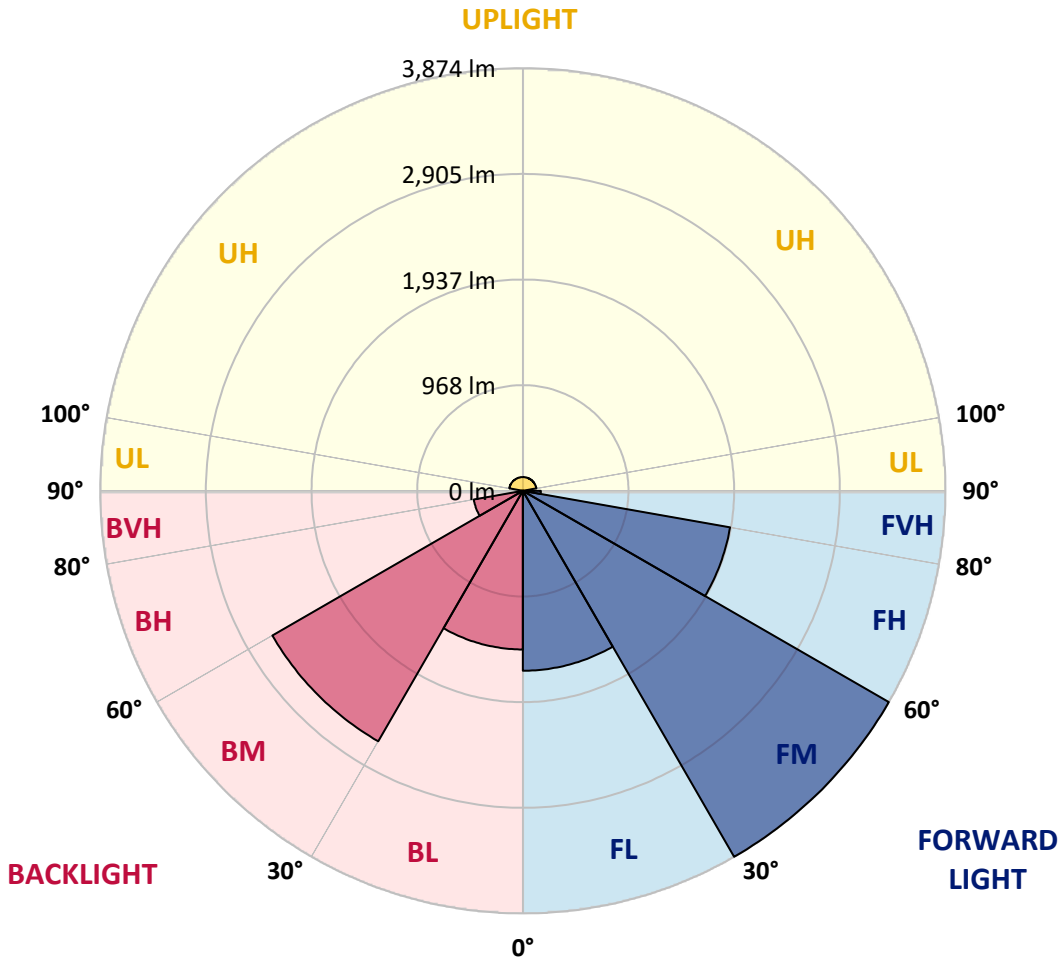
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1649.2	13.4			
FM	(30°-60°)	3873.9	31.4			
FH	(60°-80°)	1929.3	15.6			G2/5000
FVH	(80°-90°)	164.7	1.3			G2/225
BL	(0°-30°)	1454.3	11.8	B3/2500		
BM	(30°-60°)	2651.1	21.5	B3/5000		
BH	(60°-80°)	457.0	3.7	B1/500		G1/500
BVH	(80°-90°)	27.3	0.2			G1/100
UL	(90°-100°)	7.1	0.1		U1/10	
UH	(100°-180°)	126.1	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°	3865.3	3865.3	3865.3	3865.3	3865.3	3865.3	3865.3	3865.3	3865.3	3865.3	3865.3
1°	3894.4	3888.5	3877.5	3864.7	3860.5	3844.9	3845.7	3844.7	3856.0	3861.8	3878.4
2°	3914.6	3905.6	3883.7	3862.6	3843.1	3827.7	3828.3	3827.9	3844.3	3863.8	3880.0
3°	3934.0	3921.3	3892.0	3862.1	3831.2	3815.3	3815.7	3813.0	3824.1	3858.8	3885.6
4°	3953.5	3937.8	3898.1	3856.8	3818.9	3801.2	3803.4	3803.5	3812.3	3851.5	3892.2
5°	3971.1	3950.6	3903.5	3851.8	3804.9	3788.4	3778.0	3787.2	3798.8	3843.6	3894.0
6°	3990.1	3965.1	3911.1	3844.8	3791.2	3771.2	3744.6	3760.8	3785.6	3826.9	3903.2
7°	4012.1	3981.1	3914.6	3835.5	3779.1	3739.1	3718.8	3724.8	3771.9	3816.1	3904.9
8°	4037.5	4000.0	3917.5	3824.5	3764.4	3709.0	3693.0	3699.7	3755.4	3802.8	3905.8
9°	4059.5	4017.6	3919.6	3806.5	3747.9	3681.6	3674.9	3679.1	3736.7	3789.3	3906.2
10°	4079.6	4034.8	3921.2	3793.7	3729.5	3660.3	3655.9	3659.5	3710.3	3775.4	3904.9
11°	4100.4	4049.1	3919.4	3777.9	3707.6	3638.1	3636.9	3633.6	3682.7	3758.2	3901.2
12°	4123.7	4067.0	3915.4	3760.1	3676.4	3618.5	3618.8	3613.8	3654.9	3739.3	3897.8
13°	4140.2	4078.3	3913.0	3746.9	3648.3	3599.0	3602.4	3594.2	3625.4	3715.6	3895.5
14°	4159.2	4087.7	3910.9	3726.1	3617.9	3579.3	3583.7	3579.6	3591.4	3693.7	3885.9
15°	4171.8	4095.3	3906.0	3705.3	3587.9	3560.2	3567.5	3559.5	3562.3	3671.3	3878.7
16°	4189.1	4107.1	3904.2	3675.2	3559.1	3540.1	3549.4	3538.0	3532.4	3646.7	3869.5
17°	4207.4	4117.9	3897.8	3651.4	3529.1	3512.3	3533.5	3516.8	3504.0	3616.7	3863.5
18°	4230.1	4127.2	3888.5	3626.7	3497.9	3490.9	3509.8	3489.2	3477.0	3589.3	3852.2
19°	4243.1	4139.7	3872.0	3600.4	3468.5	3468.5	3493.6	3468.0	3447.4	3561.1	3838.7
20°	4253.2	4145.7	3858.1	3570.8	3432.7	3448.0	3476.4	3447.9	3418.0	3532.9	3814.1
21°	4261.5	4146.7	3842.2	3541.0	3400.8	3429.2	3462.6	3427.9	3378.4	3503.4	3794.3
22°	4264.1	4141.6	3824.1	3510.9	3369.2	3408.8	3449.6	3407.7	3348.6	3471.4	3772.4
23°	4270.7	4137.5	3802.8	3477.1	3334.1	3387.6	3433.6	3387.6	3316.7	3439.5	3750.6
24°	4277.9	4134.1	3782.1	3444.0	3302.2	3361.4	3416.4	3367.7	3285.0	3397.9	3729.4
25°	4287.0	4130.1	3759.6	3408.5	3268.8	3341.3	3396.8	3346.9	3251.4	3362.4	3705.4
26°	4292.6	4127.6	3737.8	3373.3	3235.7	3321.0	3378.5	3324.1	3217.5	3324.8	3678.5
27°	4300.5	4124.8	3713.4	3328.4	3200.9	3299.8	3358.5	3301.4	3185.0	3284.1	3652.3
28°	4307.3	4119.4	3686.0	3288.2	3166.9	3273.6	3341.7	3276.7	3146.5	3242.3	3619.8
29°	4320.7	4114.3	3657.8	3246.1	3131.8	3247.2	3319.0	3247.2	3111.7	3199.2	3589.8
30°	4329.4	4109.6	3620.6	3204.0	3094.9	3221.8	3298.1	3222.3	3075.0	3155.2	3557.8
31°	4337.4	4103.4	3591.0	3160.4	3050.5	3197.2	3276.9	3198.3	3038.2	3106.9	3518.7
32°	4345.1	4099.2	3560.5	3117.8	3012.8	3173.1	3253.9	3173.5	2994.5	3061.0	3486.3
33°	4349.5	4089.0	3529.9	3074.5	2975.2	3148.5	3232.8	3148.8	2957.4	3014.6	3452.1
34°	4357.2	4088.6	3497.7	3030.1	2937.7	3120.2	3207.8	3121.5	2919.0	2959.8	3416.1
35°	4363.6	4085.9	3463.0	2977.3	2897.2	3092.9	3182.2	3094.1	2879.7	2909.8	3380.4
36°	4368.7	4085.5	3426.2	2927.0	2858.7	3057.6	3155.2	3064.0	2837.7	2856.8	3339.7
37°	4378.8	4088.6	3388.0	2874.0	2817.2	3027.8	3120.7	3027.8	2794.9	2801.8	3299.5
38°	4382.4	4082.9	3341.2	2819.7	2773.0	2997.3	3092.6	2996.4	2750.9	2743.3	3258.5
39°	4384.8	4077.5	3300.2	2755.9	2721.7	2966.0	3062.8	2964.9	2707.0	2686.9	3206.1
40°	4383.6	4068.8	3258.5	2697.3	2676.1	2934.8	3030.4	2930.3	2657.7	2628.3	3161.9
41°	4381.2	4055.9	3217.5	2638.7	2632.6	2902.1	2993.7	2896.7	2613.6	2569.2	3116.6
42°	4379.9	4045.5	3170.7	2577.4	2584.9	2868.4	2953.6	2861.4	2569.4	2512.0	3070.4
43°	4384.1	4034.7	3128.6	2519.1	2540.3	2833.7	2909.3	2826.1	2525.1	2445.4	3023.3
44°	4397.2	4023.9	3086.6	2457.8	2495.6	2791.5	2855.5	2784.6	2477.6	2388.0	2979.7

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REPORT NUMBER: P1449842
CATALOG NUMBER: TWC100_T4_40W_3000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	4391.3	4016.0	3046.4	2396.4	2450.3	2754.1	2798.2	2742.2	2431.4	2328.4	2934.2
46°	4331.6	4011.8	3005.5	2325.3	2402.8	2713.7	2718.3	2694.5	2387.0	2262.6	2892.0
47°	4309.0	4011.0	2966.1	2262.7	2356.5	2662.3	2614.0	2642.3	2336.7	2200.8	2846.2
48°	4320.3	3982.8	2926.0	2199.8	2309.4	2610.6	2465.4	2578.6	2291.4	2138.9	2804.4
49°	4310.5	3909.9	2886.1	2136.9	2263.1	2555.2	2291.4	2513.8	2245.0	2078.8	2762.0
50°	4288.5	3890.2	2837.3	2070.2	2215.2	2494.2	2080.1	2427.3	2198.6	2010.7	2713.3
51°	4263.4	3888.0	2796.7	2006.2	2159.8	2408.6	1824.8	2315.5	2150.4	1944.6	2669.6
52°	4231.5	3854.1	2753.2	1942.4	2112.5	2303.0	1544.6	2166.1	2095.5	1881.3	2625.6
53°	4217.2	3816.2	2706.5	1875.8	2065.7	2172.2	1227.0	1992.0	2047.0	1815.7	2577.2
54°	4209.6	3777.0	2660.8	1801.6	2014.9	2007.8	964.8	1778.7	1997.1	1741.4	2525.2
55°	4207.1	3744.7	2620.5	1735.3	1965.2	1780.6	748.4	1528.0	1944.5	1674.8	2480.1
56°	4220.1	3723.3	2580.7	1667.1	1914.2	1537.7	576.5	1224.4	1886.9	1606.8	2436.7
57°	4244.8	3705.6	2540.0	1589.2	1853.5	1269.5	467.6	959.0	1828.8	1537.7	2394.6
58°	4285.4	3697.7	2485.6	1516.0	1796.3	974.4	410.9	733.1	1765.6	1462.0	2341.1
59°	4338.5	3692.7	2394.0	1444.4	1734.5	740.8	394.6	561.4	1690.8	1388.8	2256.8
60°	4396.9	3699.1	2322.0	1372.4	1668.5	563.9	384.7	433.5	1617.2	1316.8	2174.3
61°	4417.8	3732.1	2269.5	1295.4	1589.6	442.6	376.1	370.4	1537.9	1248.8	2114.5
62°	4369.0	3789.1	2199.0	1228.0	1510.3	364.8	365.3	350.7	1456.7	1174.8	2041.4
63°	4193.3	3860.8	2110.5	1164.2	1427.2	343.5	351.6	339.0	1357.6	1112.2	1950.7
64°	3972.9	3888.5	2012.2	1099.5	1342.1	331.6	338.5	328.7	1243.9	1051.4	1853.7
65°	3761.8	3789.0	1922.9	1027.9	1237.0	320.6	327.4	316.1	1105.1	990.5	1757.4
66°	3560.9	3561.9	1831.7	963.9	1116.7	307.1	315.7	302.2	932.8	923.4	1653.1
67°	3174.3	3293.6	1731.1	901.3	970.1	293.4	305.5	286.9	708.0	860.6	1559.1
68°	2765.1	3053.6	1654.4	830.3	763.0	279.3	297.4	273.2	509.6	795.5	1472.3
69°	2561.3	2659.7	1592.3	763.3	555.6	264.1	289.1	259.7	357.2	723.4	1389.7
70°	2436.6	2320.7	1550.0	694.1	387.9	250.2	278.1	247.7	267.0	656.8	1330.4
71°	2322.1	2162.5	1556.2	618.4	274.9	238.8	263.7	237.8	231.7	590.5	1302.4
72°	2202.0	2068.5	1802.5	551.5	234.7	229.0	243.6	226.3	218.0	525.8	1411.9
73°	2070.9	1974.6	2098.3	488.5	218.5	216.0	224.8	212.5	203.5	456.7	1842.2
74°	1919.1	1875.7	1624.2	429.5	203.2	201.8	206.5	199.4	187.9	397.6	1558.6
75°	1764.8	1776.8	1034.1	368.5	186.3	188.5	189.2	181.9	175.1	342.2	942.2
76°	1610.4	1663.9	860.6	316.6	172.3	171.4	177.8	164.9	162.3	291.6	736.6
77°	1447.3	1541.0	763.4	269.8	158.5	155.0	167.4	146.7	149.6	246.9	642.7
78°	1296.2	1422.7	759.6	226.1	145.2	136.3	156.9	129.6	137.3	203.8	622.8
79°	1140.5	1326.5	754.1	184.4	130.8	120.2	137.3	117.9	125.3	168.0	663.5
80°	987.2	1228.0	586.5	150.8	119.0	107.8	122.0	107.1	114.1	135.7	486.6
81°	820.0	1103.9	394.6	122.0	107.7	97.0	108.6	96.0	100.1	107.0	317.4
82°	672.2	953.6	329.7	95.6	92.0	86.4	90.1	83.3	85.9	80.2	264.2
83°	534.9	794.1	290.9	70.5	77.6	73.2	69.4	71.9	70.2	61.6	236.7
84°	414.4	685.5	254.9	52.7	62.7	61.2	51.9	60.2	57.0	47.1	208.4
85°	292.0	580.4	217.5	38.8	49.6	49.8	42.1	45.3	43.9	34.7	177.9
86°	197.7	418.4	181.2	27.0	36.4	35.6	27.0	32.2	34.9	23.6	141.8
87°	117.1	285.8	128.8	16.5	26.5	21.7	17.2	20.9	24.4	15.4	98.7
88°	39.3	109.6	51.8	8.6	15.8	12.0	13.0	13.8	14.9	8.9	31.7
89°	3.2	2.2	3.0	3.5	6.9	6.8	11.2	11.3	8.2	4.7	3.6

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	1.2	1.1	1.3	1.6	3.2	4.9	11.7	11.3	7.6	3.8	3.3
91°	1.1	1.1	1.5	1.9	3.5	5.1	12.9	12.4	8.1	4.2	3.7
92°	1.3	1.3	1.5	1.7	4.1	5.7	14.0	13.1	8.8	4.6	3.9
93°	1.5	1.4	1.7	2.0	4.3	6.4	15.0	14.1	9.4	4.9	4.3
94°	1.5	1.4	1.8	2.2	4.7	7.0	16.0	15.1	10.0	5.2	4.5
95°	1.5	1.5	2.1	2.5	5.2	7.9	17.1	16.0	10.6	5.7	5.0
96°	1.4	1.4	2.1	2.7	5.5	8.4	18.4	17.0	11.2	6.2	5.4
97°	1.8	1.6	2.4	3.1	6.0	9.4	19.6	17.8	12.1	6.6	5.8
98°	1.7	1.7	2.6	3.3	6.6	10.0	20.5	18.8	12.8	7.1	6.2
99°	1.8	1.8	3.0	3.6	7.0	10.8	21.5	19.8	13.2	7.6	6.8
100°	1.8	1.9	3.2	3.8	7.7	11.4	22.7	20.7	14.2	8.2	7.2
101°	1.9	2.2	3.6	4.3	8.0	12.2	23.8	21.7	14.9	8.8	7.7
102°	2.0	2.4	3.8	4.7	8.7	13.0	24.7	22.5	15.7	9.3	8.1
103°	2.1	2.6	4.1	5.3	9.2	13.6	25.9	23.5	16.3	9.9	8.8
104°	2.4	2.8	4.6	5.5	9.8	14.5	26.7	24.3	17.0	10.5	9.3
105°	2.7	3.0	5.0	5.8	10.4	15.5	27.7	25.2	17.8	11.0	9.9
106°	2.7	3.6	5.3	6.3	11.0	16.1	28.8	26.1	18.3	11.7	10.4
107°	3.0	3.8	5.7	6.8	11.5	17.0	29.8	27.2	19.1	12.2	11.0
108°	3.5	4.3	6.3	7.3	12.3	18.0	30.6	28.1	19.6	12.9	11.5
109°	3.8	4.7	6.6	7.8	12.8	18.8	31.5	28.8	20.5	13.6	12.4
110°	4.1	5.3	7.4	8.3	13.3	19.7	32.4	29.8	21.1	14.2	13.0
111°	4.5	5.7	7.8	8.8	14.0	20.6	33.2	30.6	22.0	15.0	13.4
112°	5.2	6.1	8.1	9.3	14.5	21.3	34.4	31.2	22.6	15.4	14.1
113°	5.6	6.6	8.7	9.7	15.2	21.9	34.8	31.8	23.2	16.4	14.9
114°	5.9	7.3	9.2	10.3	16.0	22.7	35.5	32.5	23.9	16.8	15.3
115°	6.3	7.8	9.5	11.0	16.7	23.6	36.3	33.1	24.5	17.5	16.0
116°	7.0	8.4	10.2	11.3	17.2	24.3	36.9	33.7	25.3	18.3	16.7
117°	7.7	8.9	10.7	12.0	17.9	25.0	37.4	34.4	26.0	18.9	17.0
118°	8.1	9.4	11.2	12.7	18.5	25.6	38.0	34.6	26.3	19.4	17.9
119°	9.0	10.1	11.7	13.1	19.2	26.0	38.5	35.0	27.1	20.2	18.5
120°	9.6	10.8	12.3	13.8	19.7	27.0	38.9	35.7	27.7	20.8	19.1
121°	10.2	11.6	12.8	14.4	20.5	27.7	39.2	36.0	28.1	21.5	19.8
122°	11.0	12.1	13.3	15.0	21.1	28.1	39.3	36.5	28.8	22.0	20.3
123°	11.6	12.9	14.0	15.4	21.8	28.9	39.7	36.9	29.2	22.7	20.9
124°	12.6	13.4	14.5	16.0	22.4	29.6	40.2	37.3	29.7	23.4	21.5
125°	13.3	14.2	15.1	16.8	23.1	30.1	40.5	37.7	30.3	23.9	22.3
126°	14.0	14.9	15.7	17.4	23.7	30.7	40.7	37.9	30.8	24.5	22.9
127°	14.7	15.4	16.3	18.0	24.2	31.3	40.9	38.2	31.3	25.0	23.6
128°	15.2	16.1	16.9	18.5	24.8	31.8	41.1	38.6	31.8	25.6	24.1
129°	16.2	16.6	17.5	19.1	25.3	32.3	41.3	38.8	32.1	26.2	24.7
130°	16.9	17.1	18.1	19.6	25.9	32.9	41.5	39.0	32.5	26.6	25.3
131°	17.3	17.6	18.6	20.3	26.4	33.5	41.5	39.3	33.0	27.4	25.7
132°	18.0	18.3	19.3	20.8	27.0	33.9	41.7	39.6	33.2	27.8	26.1
133°	18.6	19.0	19.7	21.6	27.6	34.4	41.9	39.8	33.5	28.4	26.7
134°	19.3	19.6	20.4	22.0	28.2	35.1	42.0	39.9	34.0	28.9	27.5

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

Scaled Data Report

REPORT NUMBER: P1449842
CATALOG NUMBER: TWC100_T4_40W_3000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
135°	19.8	20.2	20.9	22.7	28.6	35.6	42.3	40.0	34.5	29.4	28.1
136°	20.4	20.7	21.6	23.2	29.1	35.9	42.3	40.3	34.7	29.8	28.3
137°	20.9	21.2	22.1	23.9	29.5	36.4	42.2	40.5	35.1	30.3	28.9
138°	21.5	22.0	22.8	24.4	29.7	36.6	42.2	40.3	35.3	30.9	29.4
139°	22.0	22.4	23.3	25.1	30.3	36.9	42.3	40.5	35.6	31.4	29.7
140°	22.5	23.0	24.0	25.6	30.7	37.2	42.4	40.7	35.8	31.8	30.3
141°	23.1	23.7	24.5	25.9	31.1	37.4	42.1	40.7	36.2	32.2	30.7
142°	23.7	23.9	25.2	26.5	31.5	37.9	42.2	40.6	36.5	32.5	31.1
143°	24.1	24.7	25.9	27.1	31.9	38.0	42.2	40.7	36.6	32.9	31.4
144°	24.6	25.1	26.1	27.6	32.5	38.2	42.1	40.7	37.0	33.5	31.8
145°	25.5	26.0	26.9	28.1	32.5	38.2	42.0	40.7	37.3	33.6	32.2
146°	26.0	26.7	27.4	28.4	33.0	38.4	42.1	41.0	37.5	34.2	32.7
147°	26.7	27.1	28.0	28.8	33.4	38.6	42.0	40.8	37.8	34.7	33.3
148°	27.5	28.1	28.2	29.5	33.8	38.6	41.9	40.8	38.1	34.9	33.6
149°	28.1	28.2	28.9	30.0	34.2	38.7	42.1	41.1	38.2	35.2	33.8
150°	28.8	28.9	29.3	30.4	34.6	39.1	41.9	41.2	38.5	35.7	34.2
151°	29.4	29.6	29.8	30.9	34.9	39.1	42.0	41.2	38.7	36.0	34.6
152°	30.2	30.1	30.2	31.4	35.3	39.3	41.8	41.1	38.8	36.3	35.1
153°	30.5	30.6	30.5	31.8	35.4	39.3	41.6	41.1	39.2	36.7	35.3
154°	31.2	31.2	31.2	32.1	35.7	39.3	41.7	41.2	39.2	36.7	35.5
155°	31.8	31.4	31.7	32.6	35.9	39.5	41.7	41.1	39.4	37.2	35.7
156°	32.3	31.9	32.0	33.0	36.3	39.6	41.4	41.1	39.5	37.4	36.0
157°	32.5	32.2	32.4	33.4	36.5	39.8	41.2	41.0	39.4	37.6	36.4
158°	32.9	32.6	32.7	33.9	37.0	40.0	41.2	41.0	39.5	37.9	36.7
159°	33.3	32.9	33.2	34.3	37.2	40.0	41.1	40.9	39.7	38.2	37.0
160°	33.7	33.2	33.4	34.5	37.6	40.0	41.0	41.0	39.8	38.3	37.2
161°	34.1	33.6	33.8	35.0	37.7	40.2	40.8	40.7	39.9	38.6	37.4
162°	34.4	33.9	34.4	35.3	38.0	40.2	40.6	40.8	40.0	38.6	37.7
163°	34.5	34.2	34.5	35.7	38.2	40.3	40.6	40.8	39.9	38.9	37.9
164°	34.9	34.3	34.8	36.1	38.6	40.3	40.6	40.6	40.1	39.0	38.2
165°	35.3	35.1	35.4	36.3	38.8	40.6	40.4	40.6	40.1	39.2	38.4
166°	35.5	35.2	35.7	36.6	38.8	40.5	40.4	40.5	40.2	39.3	38.5
167°	35.7	35.7	35.9	37.0	39.1	40.6	40.3	40.6	40.2	39.3	38.7
168°	35.9	35.9	36.4	37.1	39.3	40.6	40.2	40.4	40.2	39.5	39.1
169°	36.3	36.3	36.7	37.6	39.5	40.7	40.3	40.4	40.2	39.7	39.1
170°	36.5	36.4	37.0	38.0	39.5	40.6	40.2	40.5	40.4	39.9	39.3
171°	36.9	36.8	37.4	38.3	39.7	40.7	40.5	40.4	40.2	40.0	39.4
172°	37.4	37.1	37.6	38.6	39.8	40.6	40.2	40.3	40.2	40.2	39.5
173°	37.8	37.4	37.8	39.0	39.9	40.5	40.5	40.6	40.2	40.3	39.7
174°	38.1	37.7	38.2	39.2	40.0	40.7	40.4	40.4	40.1	40.5	40.0
175°	38.5	38.0	38.8	39.3	40.4	40.7	40.3	40.0	40.2	40.4	40.1
176°	38.9	38.5	38.7	39.7	40.4	40.9	40.3	40.2	40.1	40.3	40.3
177°	39.1	38.7	39.2	39.9	40.4	40.8	40.2	39.9	40.0	40.4	40.4
178°	39.3	39.1	39.3	39.9	40.7	40.8	40.1	39.7	40.1	40.5	40.4
179°	39.5	39.3	39.5	40.1	40.6	40.6	40.1	39.8	40.0	40.6	40.4

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

Scaled Data Report

REPORT NUMBER: P1449842
CATALOG NUMBER: TWC100_T4_40W_3000K

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
180°	*40.1*	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1

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

Scaled Data Report

REPORT NUMBER: P1449842
CATALOG NUMBER: TWC100_T4_40W_3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
0°	3865.3	3865.3
1°	3884.9	3894.4
2°	3900.7	3914.6
3°	3917.5	3934.0
4°	3932.2	3953.5
5°	3946.9	3971.1
6°	3963.0	3990.1
7°	3978.2	4012.1
8°	3993.8	4037.5
9°	4009.5	4059.5
10°	4023.0	4079.6
11°	4036.8	4100.4
12°	4054.7	4123.7
13°	4064.3	4140.2
14°	4074.8	4159.2
15°	4077.0	4171.8
16°	4086.7	4189.1
17°	4097.3	4207.4
18°	4102.4	4230.1
19°	4111.3	4243.1
20°	4114.5	4253.2
21°	4112.7	4261.5
22°	4108.4	4264.1
23°	4103.9	4270.7
24°	4098.3	4277.9
25°	4093.6	4287.0
26°	4086.1	4292.6
27°	4079.6	4300.5
28°	4073.5	4307.3
29°	4064.7	4320.7
30°	4063.9	4329.4
31°	4057.2	4337.4
32°	4051.8	4345.1
33°	4046.7	4349.5
34°	4037.0	4357.2
35°	4034.3	4363.6
36°	4032.0	4368.7
37°	4030.5	4378.8
38°	4022.0	4382.4
39°	4015.3	4384.8
40°	4005.2	4383.6
41°	3993.4	4381.2
42°	3981.2	4379.9
43°	3969.5	4384.1
44°	3957.2	4397.2

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

Scaled Data Report

REPORT NUMBER: P1449842
CATALOG NUMBER: TWC100_T4_40W_3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
45°	3943.7	4391.3
46°	3939.4	4331.6
47°	3932.2	4309.0
48°	3879.9	4320.3
49°	3822.1	4310.5
50°	3813.2	4288.5
51°	3800.2	4263.4
52°	3769.8	4231.5
53°	3721.4	4217.2
54°	3682.0	4209.6
55°	3648.2	4207.1
56°	3622.3	4220.1
57°	3603.9	4244.8
58°	3594.6	4285.4
59°	3587.1	4338.5
60°	3599.8	4396.9
61°	*3643.2*	*4417.8*
62°	3706.3	4369.0
63°	3765.8	4193.3
64°	3757.1	3972.9
65°	3588.6	3761.8
66°	3341.6	3560.9
67°	3115.3	3174.3
68°	2804.9	2765.1
69°	2392.2	2561.3
70°	2162.6	2436.6
71°	2054.6	2322.1
72°	1948.3	2202.0
73°	1855.2	2070.9
74°	1760.5	1919.1
75°	1658.4	1764.8
76°	1525.7	1610.4
77°	1411.6	1447.3
78°	1313.6	1296.2
79°	1220.5	1140.5
80°	1113.1	987.2
81°	999.5	820.0
82°	840.1	672.2
83°	700.3	534.9
84°	594.9	414.4
85°	454.2	292.0
86°	341.9	197.7
87°	188.5	117.1
88°	11.0	39.3
89°	1.8	3.2

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

Scaled Data Report

REPORT NUMBER: P1449842
CATALOG NUMBER: TWC100_T4_40W_3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
90°	1.9	1.2
91°	2.0	1.1
92°	2.1	1.3
93°	2.5	1.5
94°	2.5	1.5
95°	2.9	1.5
96°	3.4	1.4
97°	3.5	1.8
98°	4.0	1.7
99°	4.5	1.8
100°	4.9	1.8
101°	5.4	1.9
102°	5.9	2.0
103°	6.5	2.1
104°	7.0	2.4
105°	7.5	2.7
106°	8.1	2.7
107°	8.9	3.0
108°	9.4	3.5
109°	9.9	3.8
110°	10.7	4.1
111°	11.4	4.5
112°	12.0	5.2
113°	12.9	5.6
114°	13.5	5.9
115°	14.4	6.3
116°	15.1	7.0
117°	15.9	7.7
118°	16.5	8.1
119°	17.2	9.0
120°	18.1	9.6
121°	18.9	10.2
122°	19.6	11.0
123°	20.3	11.6
124°	21.0	12.6
125°	21.7	13.3
126°	22.3	14.0
127°	22.9	14.7
128°	23.6	15.2
129°	24.1	16.2
130°	24.7	16.9
131°	25.3	17.3
132°	26.0	18.0
133°	26.2	18.6
134°	26.9	19.3

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

Scaled Data Report

REPORT NUMBER: P1449842
CATALOG NUMBER: TWC100_T4_40W_3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
135°	27.5	19.8
136°	27.9	20.4
137°	28.2	20.9
138°	28.9	21.5
139°	29.4	22.0
140°	30.0	22.5
141°	30.2	23.1
142°	30.7	23.7
143°	31.1	24.1
144°	31.7	24.6
145°	32.0	25.5
146°	32.3	26.0
147°	32.5	26.7
148°	32.9	27.5
149°	33.2	28.1
150°	33.7	28.8
151°	33.9	29.4
152°	34.3	30.2
153°	34.5	30.5
154°	34.7	31.2
155°	35.0	31.8
156°	35.2	32.3
157°	35.5	32.5
158°	35.7	32.9
159°	35.9	33.3
160°	36.2	33.7
161°	36.2	34.1
162°	36.6	34.4
163°	36.9	34.5
164°	37.1	34.9
165°	37.4	35.3
166°	37.6	35.5
167°	37.7	35.7
168°	38.0	35.9
169°	38.3	36.3
170°	38.4	36.5
171°	38.9	36.9
172°	38.9	37.4
173°	39.2	37.8
174°	39.5	38.1
175°	39.6	38.5
176°	39.8	38.9
177°	40.1	39.1
178°	40.5	39.3
179°	40.6	39.5

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

Scaled Data Report

REPORT NUMBER: P1449842
CATALOG NUMBER: TWC100_T4_40W_3000K

CANDELA DISTRIBUTION (continued):

	330°	360°
180°	40.1	40.1

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

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

Report Prepared for

Cooper Lighting Solutions

Lumark

Report Number: SP1-2601-659-1

Test Date: 02/12/2026

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

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.05

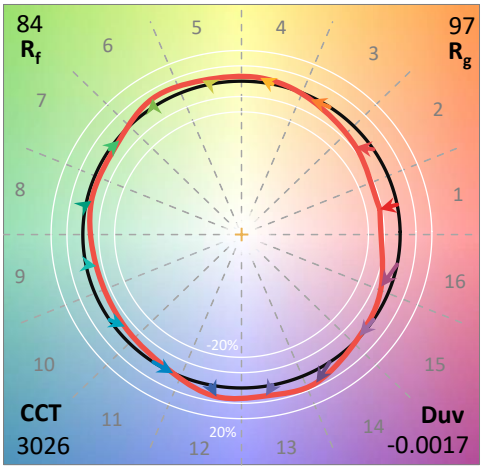
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2601-659-1
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	02/16/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Lumark
Catalog Number:	**MWP2460W34VDDKYYAD-T4-24W-3000K**
Description:	Mester Wedge, at T4 beam setting, 24W output, 3000K

Spectral Parameters

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

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



Test Conditions

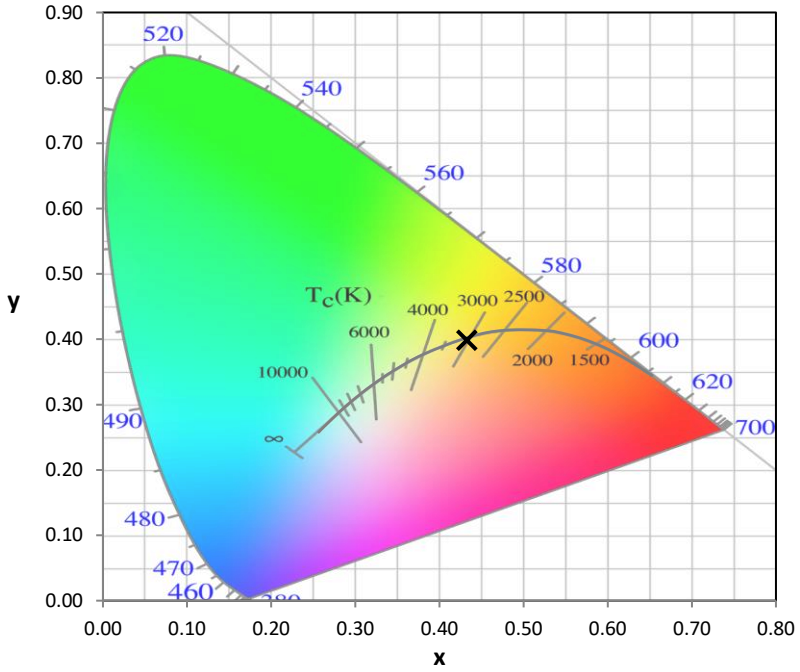
Stabilization Time:	64M
Operation Time:	2H 4M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2601-659-1

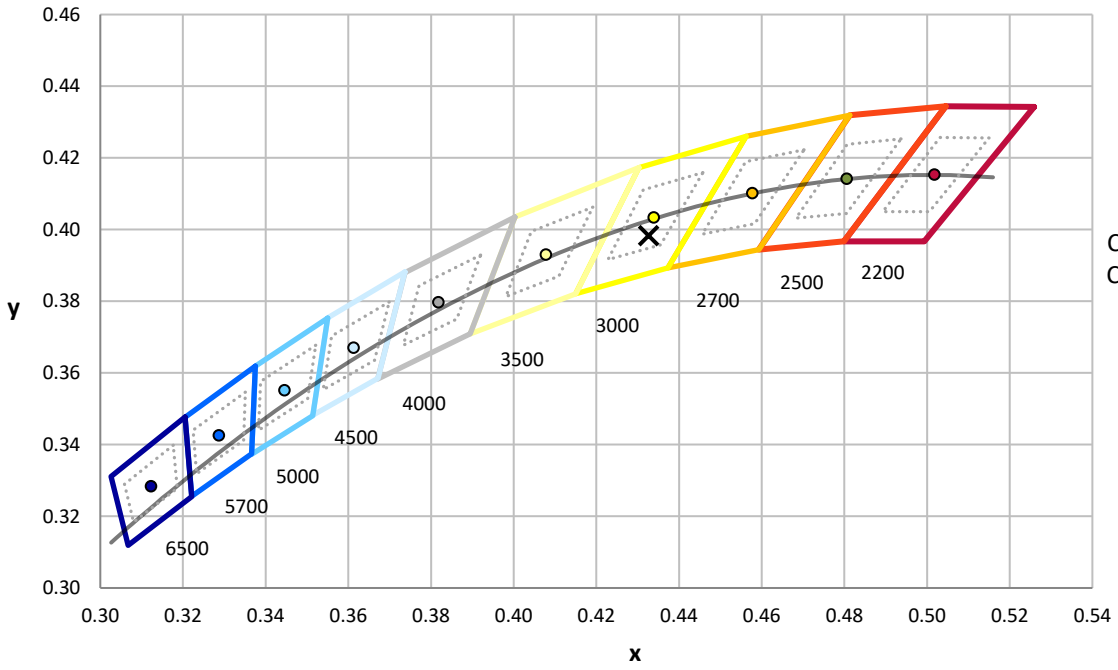
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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

REPORT NUMBER: SP1-2601-659-1

CIE 1931 Chromaticity Diagram



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

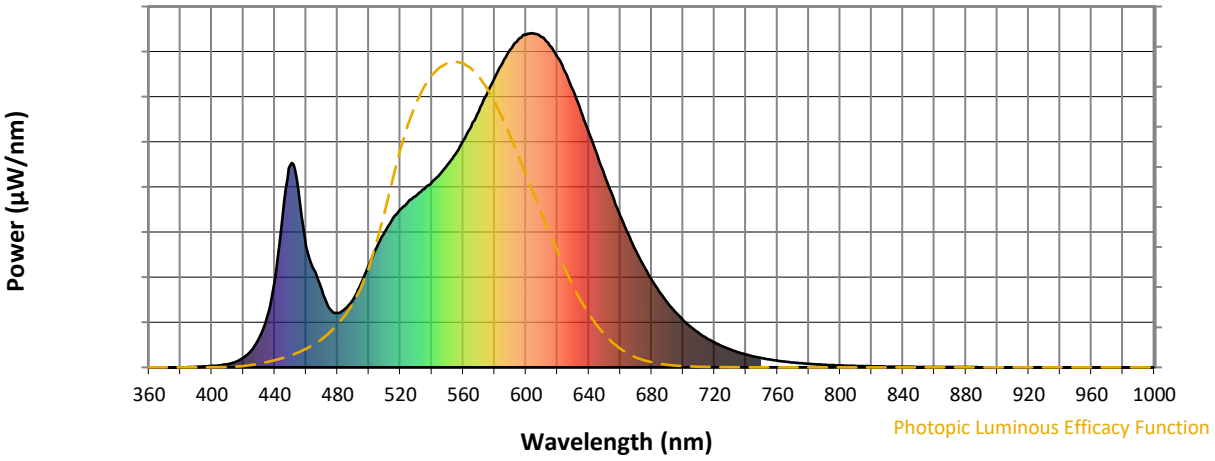


CCT = 3026K
CIE x = 0.4326
CIE y = 0.3983
Duv = -0.0017

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2601-659-1

Photopic Flux vs. Wavelength

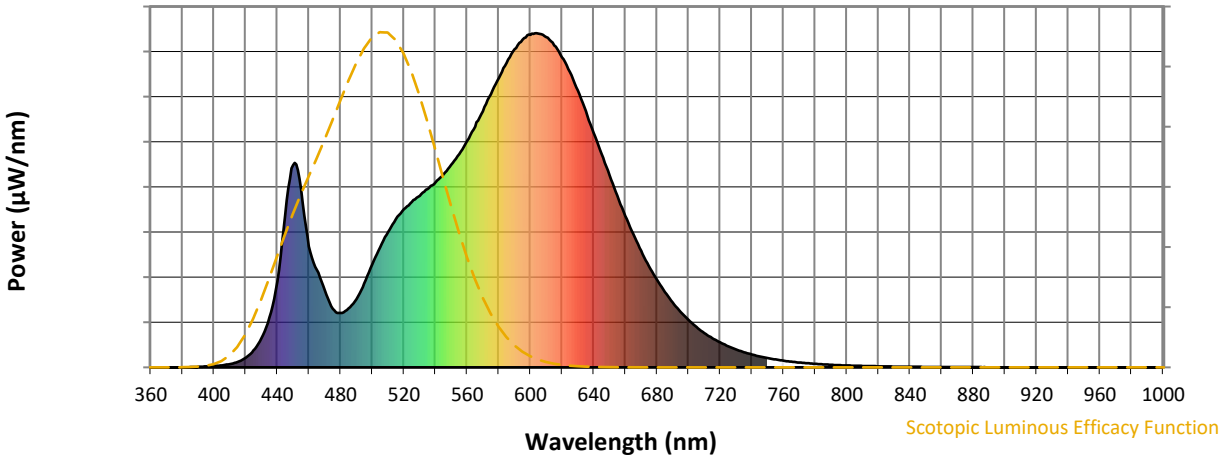


Photopic Lumens: NR

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

REPORT NUMBER: SP1-2601-659-1

Scotopic Flux vs. Wavelength

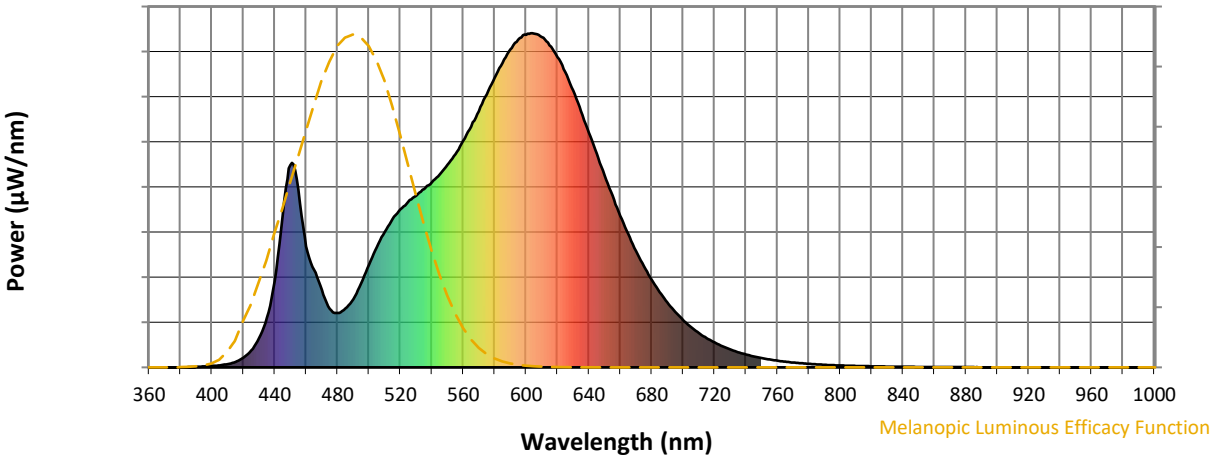


Scotopic Lumens: NR **S/P: 1.35**

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

REPORT NUMBER: SP1-2601-659-1

Melanopic Flux vs. Wavelength



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

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

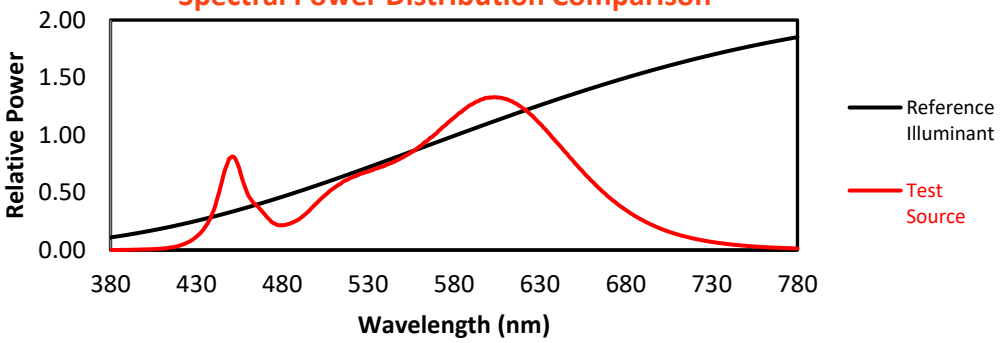
REPORT NUMBER: SP1-2601-659-1

TM-30-18

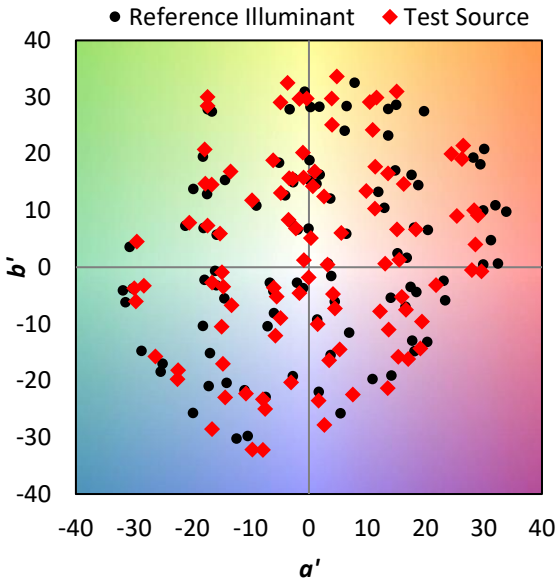
Summary

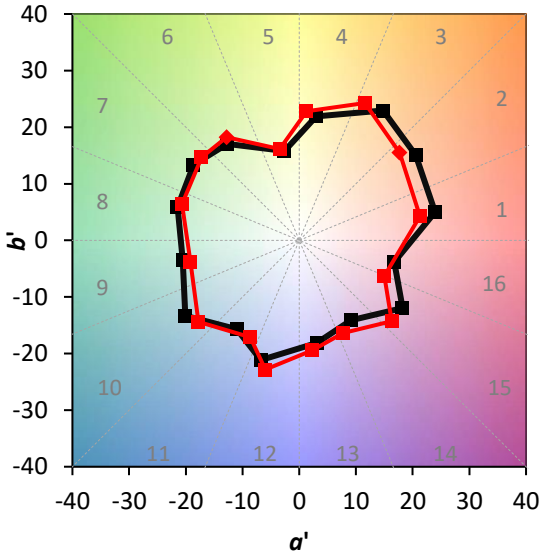
R_f = 84
R_g = 97.4
CIE R_a = 82.7
R_9 = 7.5

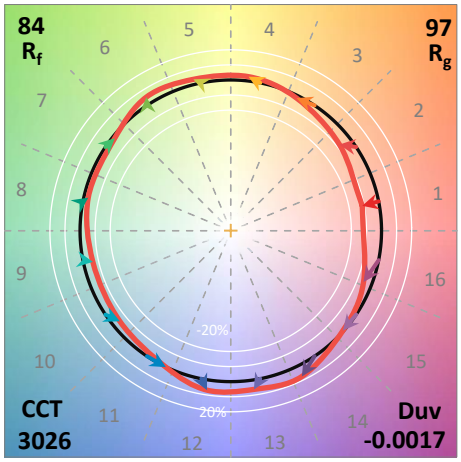
Spectral Power Distribution Comparison

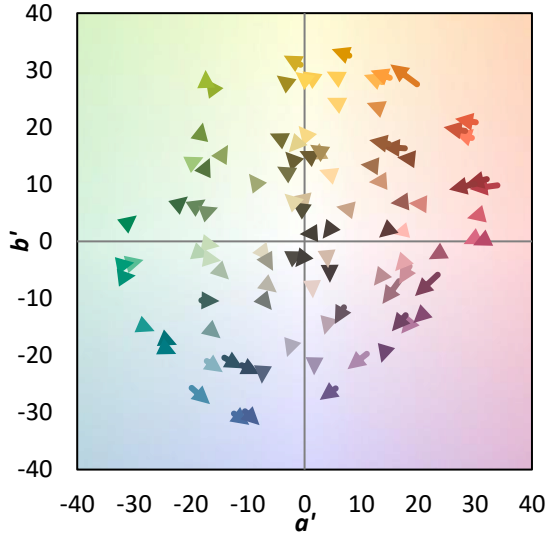


Color Vector Graphics







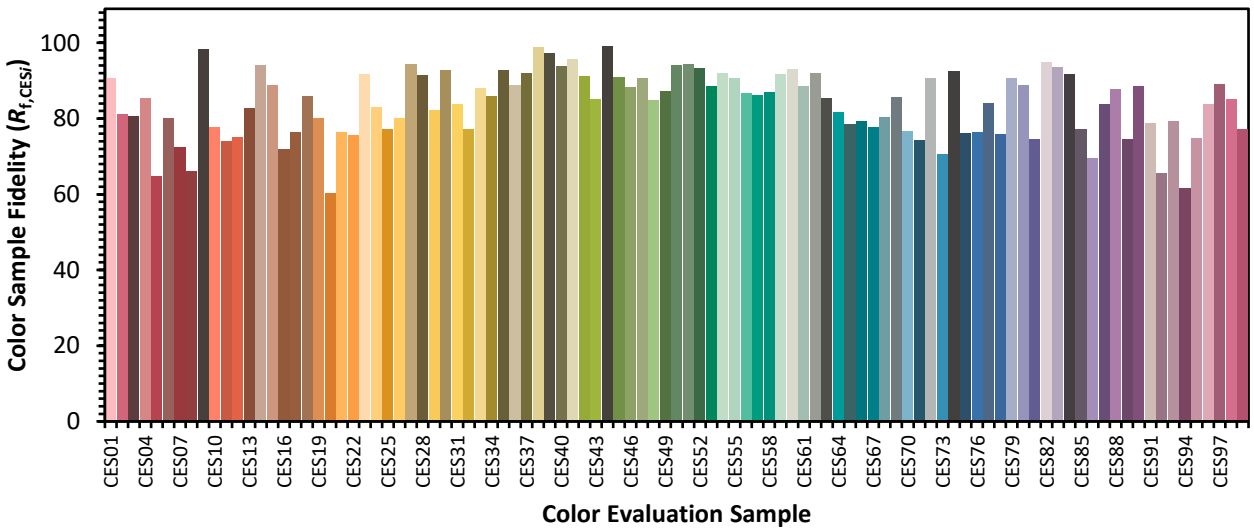


REPORT NUMBER: SP1-2601-659-1

TM-30-18

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

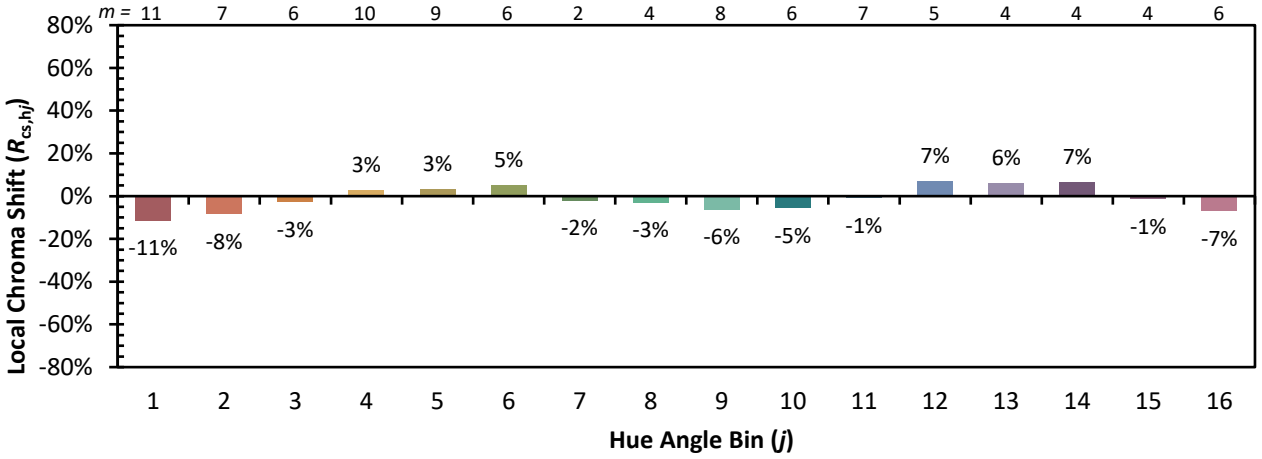
CES01 = 86	CES26 = 80	CES51 = 94	CES76 = 76
CES02 = 63	CES27 = 94	CES52 = 93	CES77 = 84
CES03 = 31	CES28 = 92	CES53 = 88	CES78 = 76
CES04 = 70	CES29 = 82	CES54 = 92	CES79 = 91
CES05 = 50	CES30 = 93	CES55 = 91	CES80 = 89
CES06 = 51	CES31 = 84	CES56 = 87	CES81 = 75
CES07 = 42	CES32 = 77	CES57 = 86	CES82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

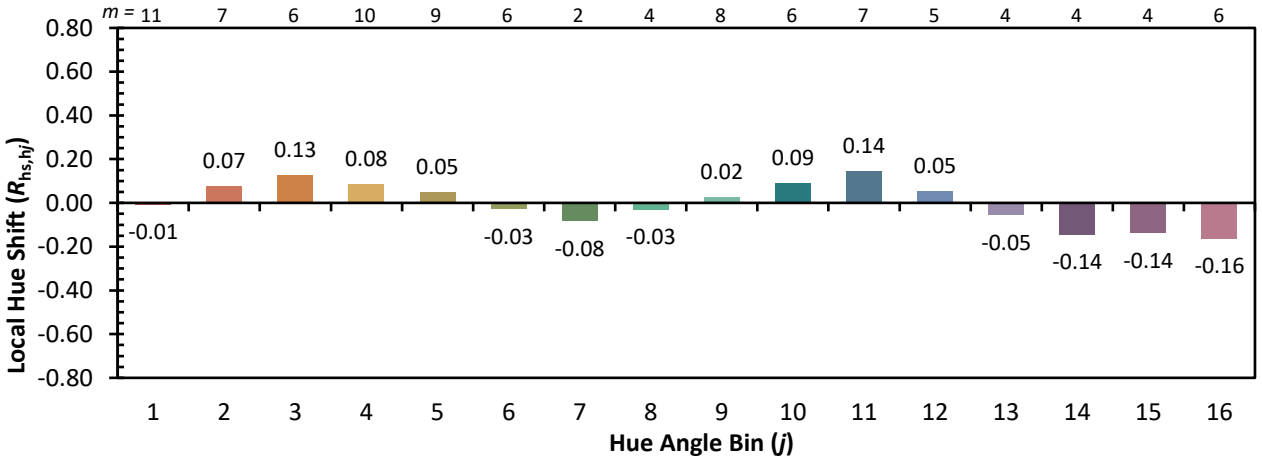


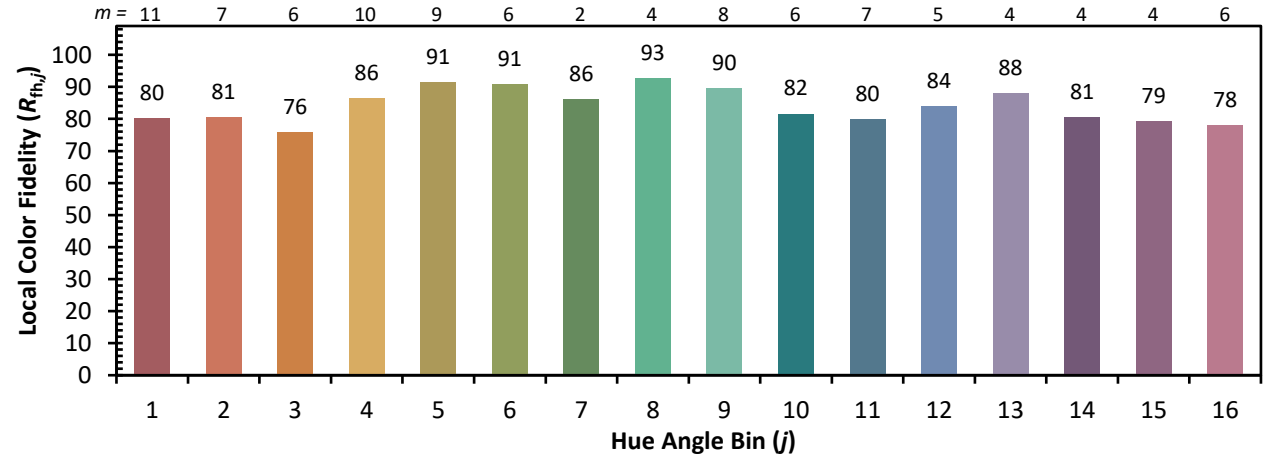
REPORT NUMBER: SP1-2601-659-1

TM-30-18

Color Rendition by Hue-Angle Bin



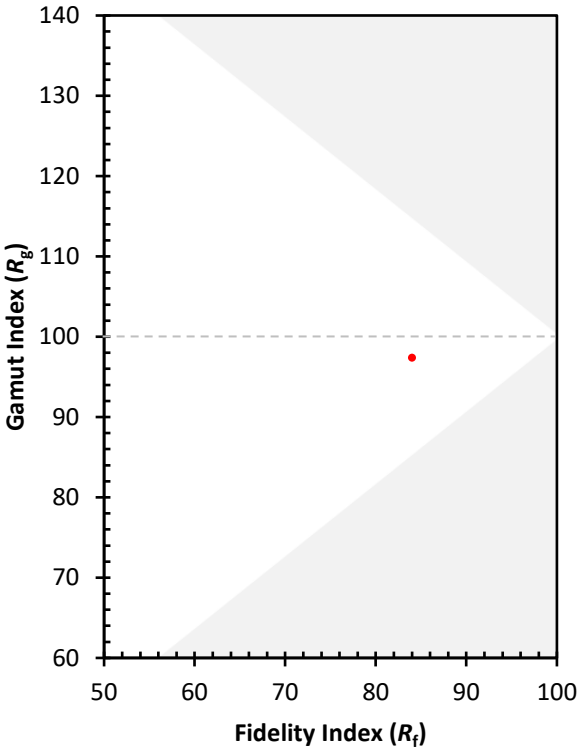


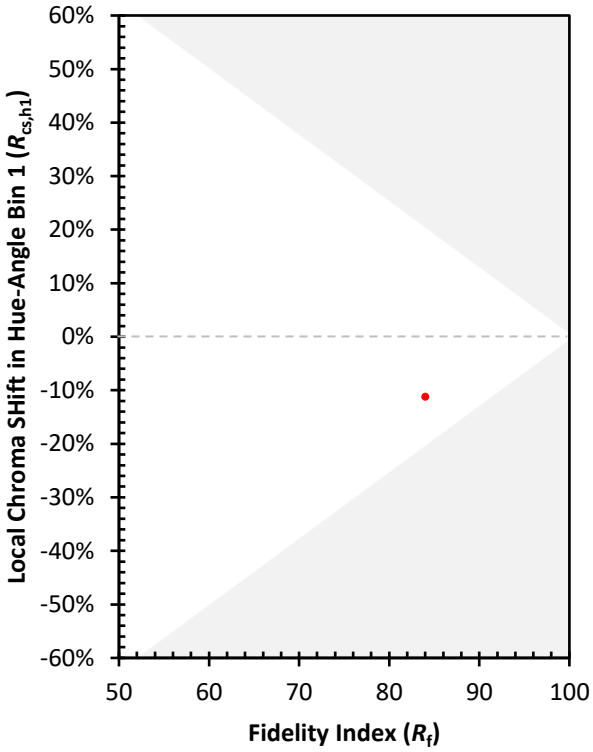


REPORT NUMBER: SP1-2601-659-1

TM-30-18

Measure Comparisons





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