

Signify Classified - Internal  
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: P1449862

Luminaire Tested: **TWC150\_T2\_90W\_5000K**

Issue Date: 5/19/2026

**Test Information**

Test Method: LM-79-08  
Report Number: P1449862  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( )  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: TWC150\_T2\_90W\_5000K  
Description: Tapered Wall Cutoff Wall Mount Luminaire at, T2 distribution, 90W  
5000K settings  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14855 lumens  
Efficiency: N/A  
Efficacy: 169.0 lumens/watt  
Luminous Opening: Rectangular (W 1.33' x L: 0.42' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

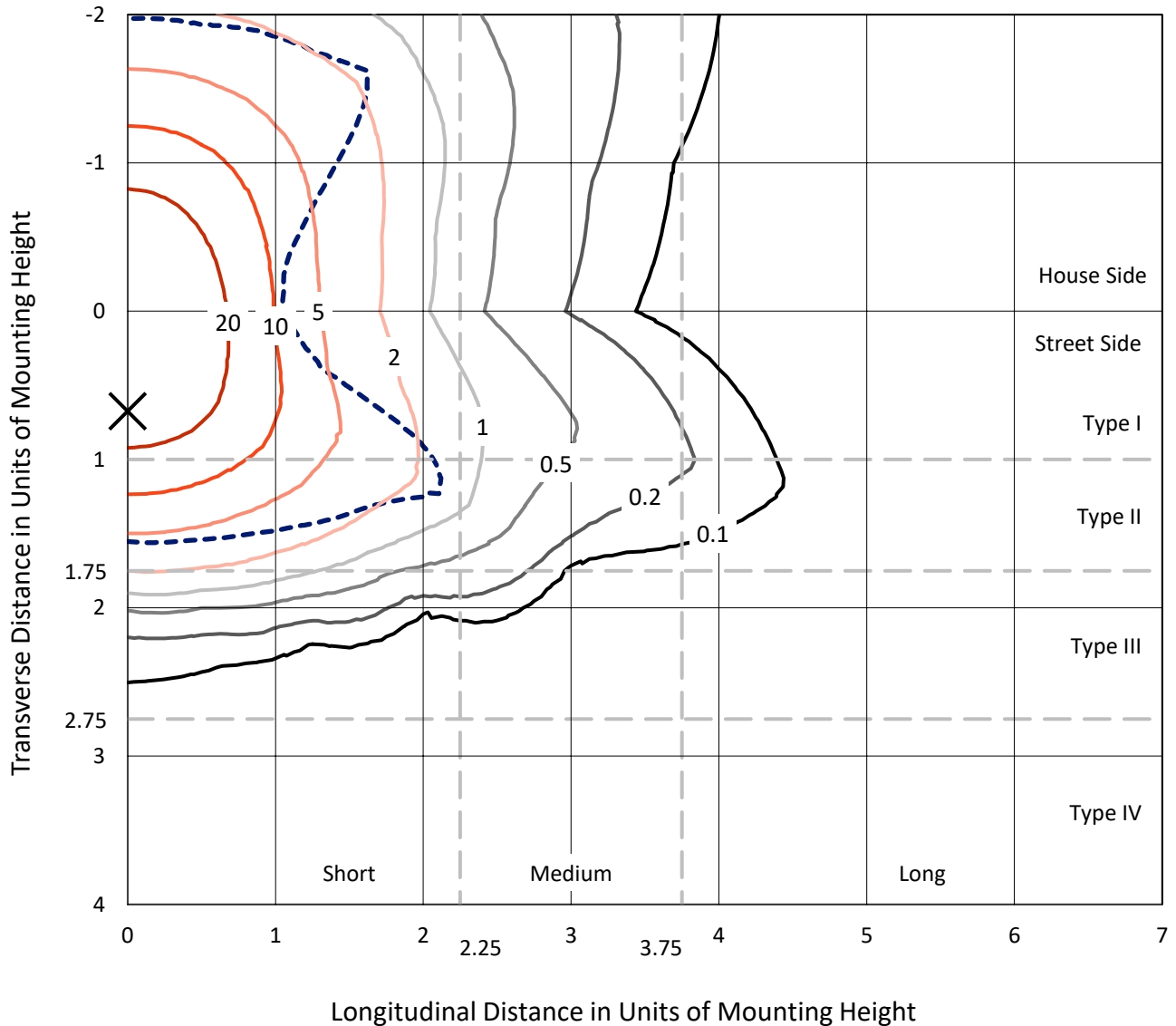
Input Watts (W): 87.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

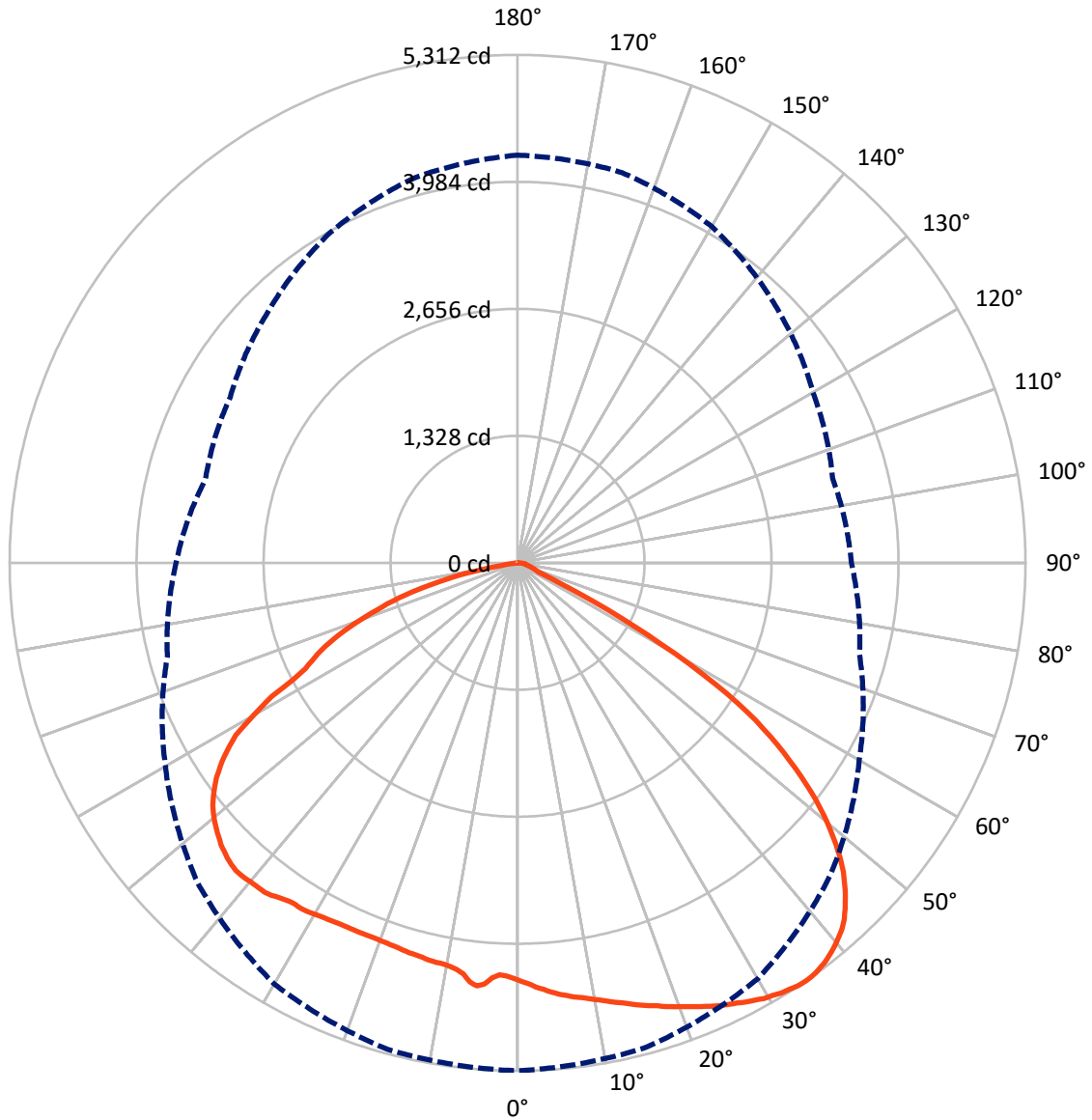
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 44.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 34-Deg Vertical

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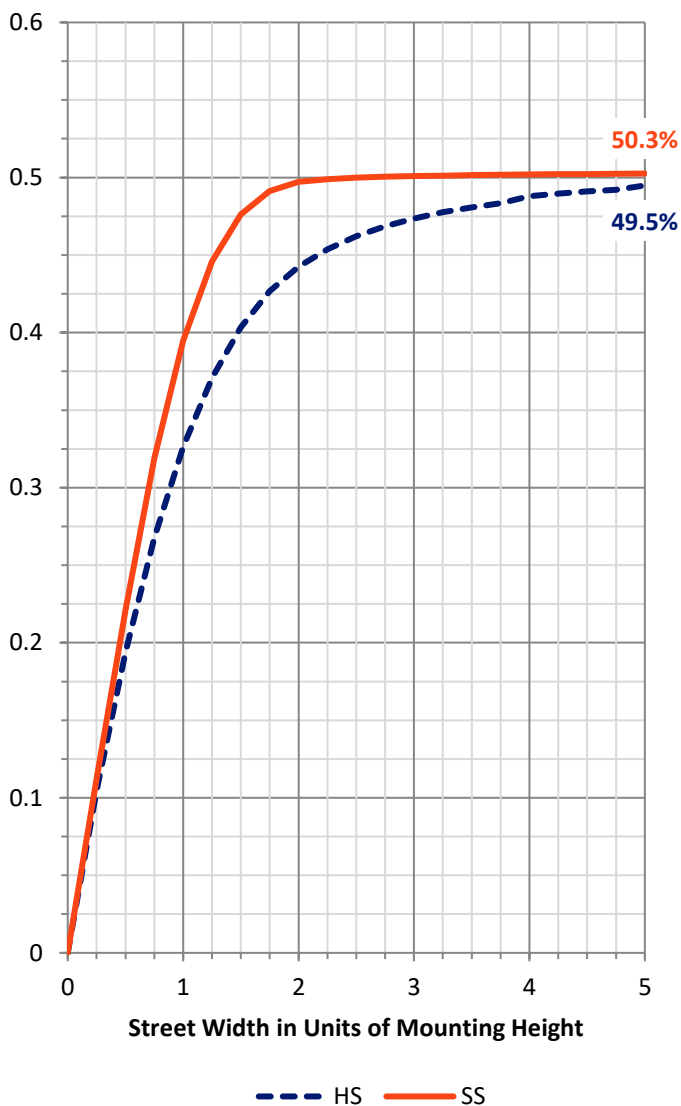
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7391.0	0.0	7391.0
	% Fixture	49.8	0.0	49.8
<b>Street Side</b>	Lumens	7464.0	0.0	7464.0
	% Fixture	50.2	0.0	50.2
<b>Total</b>	Lumens	14855.0	0.0	14855.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	420.9	2.8
10°-20°	1240.4	8.4
20°-30°	1990.2	13.4
30°-40°	2604.5	17.5
40°-50°	2967.7	20.0
50°-60°	2825.9	19.0
60°-70°	1834.5	12.3
70°-80°	813.1	5.5
80°-90°	157.8	1.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	14855.0	100.0
0°-180°	14855.0	100.0

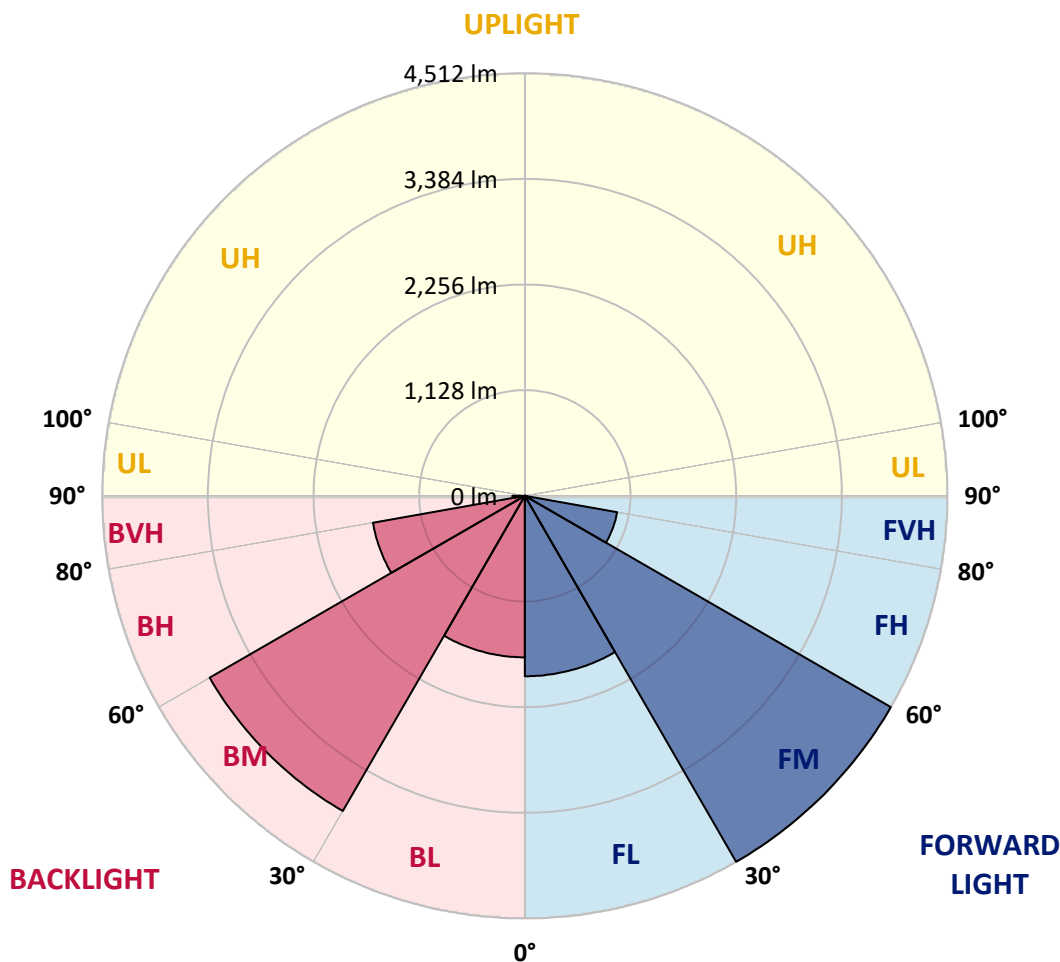


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1926.6	13.0			
FM	(30°-60°)	4512.4	30.4			
FH	(60°-80°)	1000.8	6.7			G1/1800
FVH	(80°-90°)	24.2	0.2			G1/100
BL	(0°-30°)	1724.9	11.6	B3/2500		
BM	(30°-60°)	3885.7	26.2	B3/5000		
BH	(60°-80°)	1646.9	11.1	B3/2500		G3/2500
BVH	(80°-90°)	133.6	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	4374.9	4374.9	4374.9	4374.9	4374.9	4374.9	4374.9	4374.9	4374.9	4374.9	4374.9
1°	4402.8	4400.1	4401.8	4391.1	4383.0	4379.5	4375.7	4367.4	4360.2	4354.7	4350.4
2°	4440.3	4433.2	4425.4	4413.0	4398.0	4383.5	4371.7	4356.7	4344.3	4338.2	4330.5
3°	4469.8	4466.3	4452.3	4432.8	4412.7	4384.6	4366.8	4344.8	4327.3	4315.6	4309.7
4°	4503.5	4493.8	4478.4	4453.6	4420.0	4385.8	4358.0	4332.1	4312.1	4310.7	4327.8
5°	4531.4	4522.2	4501.0	4471.6	4429.2	4387.4	4352.9	4319.2	4300.7	4331.6	4384.5
6°	4555.5	4544.1	4522.8	4487.1	4438.1	4382.5	4334.4	4298.3	4305.0	4383.0	4432.8
7°	4579.1	4564.1	4534.9	4497.4	4441.9	4381.3	4325.3	4285.6	4330.6	4423.3	4439.3
8°	4599.4	4584.7	4554.3	4505.5	4448.0	4378.0	4312.3	4274.7	4364.5	4427.5	4382.6
9°	4624.5	4608.0	4566.2	4519.5	4446.5	4369.9	4295.6	4264.4	4396.2	4393.4	4316.8
10°	4648.5	4626.0	4586.5	4525.8	4450.3	4357.9	4279.5	4270.0	4394.7	4322.2	4286.5
11°	4676.5	4654.7	4599.3	4532.4	4444.9	4351.6	4264.1	4282.8	4375.9	4271.2	4264.6
12°	4706.2	4681.5	4618.1	4543.4	4445.9	4341.5	4239.2	4295.8	4314.9	4245.4	4248.7
13°	4732.5	4705.7	4638.2	4547.4	4444.2	4327.5	4216.9	4304.7	4255.8	4222.3	4237.7
14°	4766.5	4734.8	4659.4	4556.0	4441.1	4313.0	4195.9	4310.3	4209.8	4202.8	4230.2
15°	4800.7	4767.0	4679.3	4565.4	4432.8	4295.3	4171.6	4292.5	4175.9	4186.5	4211.1
16°	4828.9	4794.4	4706.6	4572.8	4433.7	4284.4	4148.0	4261.3	4150.0	4168.7	4199.0
17°	4857.8	4823.8	4725.1	4587.4	4431.7	4269.4	4125.2	4212.3	4119.5	4150.0	4188.6
18°	4893.3	4847.7	4745.5	4598.6	4428.9	4252.5	4105.4	4145.1	4096.4	4126.7	4178.2
19°	4925.3	4879.3	4768.3	4610.3	4421.8	4231.7	4084.3	4084.1	4072.2	4109.6	4161.4
20°	4954.6	4901.9	4784.0	4617.4	4421.6	4216.9	4068.8	4032.5	4042.7	4088.4	4144.6
21°	4987.9	4932.1	4807.8	4623.5	4409.9	4201.5	4060.4	3993.2	4009.0	4065.5	4135.5
22°	5021.8	4957.5	4820.8	4630.6	4398.7	4183.2	4051.1	3954.4	3975.5	4045.3	4125.2
23°	5056.6	4991.9	4837.8	4631.9	4385.8	4157.1	4041.0	3915.4	3947.3	4024.7	4108.4
24°	5090.1	5020.9	4856.0	4636.2	4375.0	4134.3	4025.9	3880.6	3915.7	4005.7	4098.7
25°	5117.7	5048.0	4875.6	4633.6	4358.7	4097.5	4006.0	3845.6	3884.5	3985.1	4094.4
26°	5144.3	5075.7	4894.0	4631.4	4336.9	4062.5	3972.7	3797.8	3846.6	3959.5	4086.4
27°	5177.4	5101.0	4919.2	4635.2	4319.7	4030.0	3932.4	3757.6	3812.5	3939.0	4076.5
28°	5203.0	5124.3	4931.6	4627.5	4295.3	3989.5	3877.1	3710.0	3779.4	3921.5	4073.9
29°	5234.7	5153.5	4950.1	4629.1	4267.7	3950.9	3819.3	3663.6	3748.8	3899.1	4071.9
30°	5251.4	5180.2	4960.7	4624.8	4244.0	3902.7	3747.3	3615.9	3713.0	3879.6	4064.0
31°	5275.5	5197.6	4981.3	4629.6	4215.9	3856.0	3680.0	3568.2	3674.0	3862.2	4063.3
32°	5290.0	5218.4	4992.0	4627.0	4184.8	3808.7	3613.4	3515.5	3641.0	3843.7	4059.0
33°	5306.1	5229.1	5009.5	4624.2	4155.3	3755.6	3547.9	3464.2	3600.7	3826.4	4061.7
34°	5311.8	5241.0	5022.4	4623.7	4126.1	3701.6	3489.9	3410.8	3566.7	3809.7	4060.5
35°	5308.5	5243.5	5035.6	4621.4	4097.2	3649.6	3426.9	3357.7	3524.1	3789.6	4056.6
36°	5291.7	5241.3	5035.5	4613.3	4067.1	3590.3	3363.0	3304.5	3487.3	3777.7	4038.6
37°	5273.5	5224.5	5043.5	4615.3	4037.9	3531.7	3297.4	3249.9	3449.5	3755.4	4036.9
38°	5242.5	5202.2	5037.8	4618.6	4013.8	3476.7	3232.0	3195.7	3414.5	3731.5	4038.2
39°	5205.2	5175.1	5024.2	4617.6	3987.7	3417.9	3164.2	3145.0	3377.0	3701.3	4047.0
40°	5164.4	5137.5	5012.3	4619.7	3963.6	3357.5	3096.2	3094.3	3340.2	3680.3	4056.7
41°	5119.2	5095.2	4987.6	4619.7	3941.0	3302.5	3028.1	3043.7	3301.4	3673.5	4052.9
42°	5056.6	5043.4	4958.2	4617.1	3918.4	3244.9	2961.4	2985.2	3257.6	3662.0	4051.3
43°	4976.5	4983.3	4917.9	4614.8	3900.0	3190.6	2886.6	2926.8	3206.1	3638.2	4050.8
44°	4891.0	4908.5	4871.8	4610.5	3881.9	3139.3	2809.9	2869.1	3169.6	3611.8	4053.4



REPORT NUMBER: P1449862

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**CANDELA DISTRIBUTION (continued):**

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	4797.4	4828.7	4823.3	4598.1	3865.9	3089.7	2734.1	2806.6	3133.1	3584.2	4053.3
46°	4697.0	4735.6	4760.9	4582.6	3851.3	3042.7	2661.6	2745.3	3096.7	3575.8	4043.5
47°	4575.8	4633.3	4698.3	4557.8	3842.1	2992.8	2580.5	2683.7	3056.4	3563.2	4021.6
48°	4444.9	4518.2	4615.1	4533.5	3827.9	2936.5	2503.8	2616.7	3008.7	3545.2	3995.8
49°	4304.7	4387.4	4524.5	4491.6	3818.0	2877.2	2422.5	2543.9	2961.6	3522.5	3966.7
50°	4152.0	4238.8	4425.1	4448.0	3811.2	2813.0	2343.5	2464.6	2924.8	3497.4	3933.1
51°	3984.7	4091.1	4312.3	4401.1	3803.0	2747.1	2262.2	2387.9	2885.0	3465.5	3896.6
52°	3808.1	3921.0	4188.0	4348.8	3799.2	2678.1	2178.2	2322.3	2836.3	3437.3	3861.9
53°	3617.1	3744.0	4045.2	4280.4	3789.8	2597.6	2098.0	2260.2	2783.6	3411.0	3822.1
54°	3419.4	3553.2	3883.4	4201.0	3778.2	2528.0	2018.5	2184.1	2728.8	3379.8	3779.2
55°	3209.8	3350.4	3711.5	4106.9	3769.4	2456.7	1932.2	2106.2	2668.5	3344.5	3732.5
56°	2984.9	3136.1	3527.1	4005.5	3754.3	2387.2	1847.5	2034.4	2618.5	3303.5	3681.5
57°	2730.5	2903.8	3323.8	3888.8	3731.5	2320.2	1763.6	1963.2	2560.9	3261.6	3625.3
58°	2424.9	2650.4	3109.2	3747.2	3695.3	2253.5	1676.4	1888.9	2506.1	3218.8	3560.8
59°	2081.1	2349.9	2878.2	3589.0	3654.9	2187.6	1589.8	1808.5	2446.5	3175.7	3484.5
60°	1725.2	2004.0	2627.4	3405.2	3600.9	2121.7	1499.8	1726.3	2385.4	3132.5	3399.6
61°	1389.9	1647.3	2351.1	3199.5	3542.8	2060.6	1414.0	1644.0	2323.2	3089.1	3297.3
62°	1054.9	1313.0	2019.0	2957.1	3470.3	2007.6	1333.9	1566.8	2264.7	3029.8	3143.5
63°	719.9	978.9	1673.1	2696.8	3385.1	1960.3	1247.5	1484.5	2209.9	2965.2	2990.0
64°	466.7	644.8	1328.0	2425.8	3283.1	1921.5	1162.6	1408.0	2151.8	2891.9	2833.2
65°	306.7	402.7	982.8	2108.5	3164.5	1894.9	1081.3	1332.4	2092.2	2817.0	2567.0
66°	236.1	265.2	637.7	1755.7	3022.5	1882.5	1001.0	1257.0	2028.1	2716.4	2373.7
67°	214.2	208.2	389.8	1393.4	2847.8	1875.7	924.4	1181.6	1965.2	2554.8	2260.2
68°	199.1	189.3	246.8	1030.9	2631.9	1872.3	847.0	1108.7	1891.1	2354.5	2165.5
69°	184.3	174.3	193.1	668.4	2389.5	1866.3	772.6	1037.7	1817.9	2199.2	2072.2
70°	169.8	160.0	173.8	389.4	2080.9	1865.0	700.1	969.6	1747.9	2101.4	1982.5
71°	156.2	147.9	159.6	229.9	1673.8	1874.7	630.1	900.7	1668.9	2006.7	1900.0
72°	145.3	135.9	145.4	166.7	1239.2	1876.6	566.7	833.2	1542.6	1902.6	1813.2
73°	134.5	123.8	131.2	147.9	804.1	1832.5	503.8	763.7	1423.9	1794.8	1721.2
74°	123.7	113.2	117.0	129.9	369.0	1704.7	443.6	696.3	1345.4	1693.1	1618.0
75°	112.6	101.7	103.7	111.9	204.7	1541.2	387.0	633.0	1279.6	1597.0	1509.9
76°	103.3	91.4	88.4	99.7	172.5	1365.6	330.3	570.0	1207.1	1503.4	1379.7
77°	96.2	83.3	76.9	90.2	142.2	1189.7	274.0	510.7	1135.3	1416.2	1229.8
78°	91.6	76.5	67.3	79.3	112.0	1013.9	226.8	439.0	1069.0	1332.1	1094.1
79°	87.9	72.3	60.4	65.9	101.5	773.5	184.3	382.9	998.5	1251.5	968.7
80°	83.1	68.7	55.0	53.7	101.4	584.5	146.2	326.7	929.4	1147.1	871.2
81°	77.5	64.2	50.8	45.5	94.3	408.7	114.3	270.6	863.4	1037.7	771.1
82°	70.8	59.1	46.9	39.8	80.7	265.9	86.8	227.2	791.9	926.1	549.6
83°	58.5	51.3	42.8	34.7	66.8	156.7	62.9	186.2	721.0	841.0	328.2
84°	46.3	42.0	36.2	30.1	45.9	117.0	48.1	146.1	623.1	763.9	110.7
85°	33.2	31.2	27.3	25.7	27.0	77.6	33.3	110.4	501.7	610.3	63.7
86°	23.2	23.5	19.8	19.1	17.4	38.3	18.6	77.0	401.5	456.8	17.5
87°	15.8	16.1	13.6	13.1	11.8	21.0	10.6	52.1	301.3	303.2	8.6
88°	8.5	8.6	7.3	7.2	6.2	14.0	4.9	27.3	201.0	149.6	3.0
89°	1.2	1.2	1.1	1.2	1.3	7.3	1.6	3.0	100.8	1.1	0.7



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**CANDELA DISTRIBUTION (continued):**

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1449862  
 CATALOG NUMBER: TWC150\_T2\_90W\_5000K

**CANDELA DISTRIBUTION (continued):**

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
139°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
153°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
161°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
163°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
168°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
169°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
171°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
173°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
174°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
176°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
178°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
179°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1449862  
CATALOG NUMBER: TWC150\_T2\_90W\_5000K

**CANDELA DISTRIBUTION (continued):**

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1449862

CATALOG NUMBER: TWC150\_T2\_90W\_5000K

**CANDELA DISTRIBUTION (continued):**

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	4374.9	4374.9	4374.9	4374.9	4374.9	4374.9	4374.9	4374.9	4374.9	4374.9	4374.9
1°	4346.3	4346.0	4349.5	4346.5	4353.1	4358.0	4363.7	4376.4	4383.3	4387.8	4393.5
2°	4320.4	4322.7	4321.2	4324.2	4339.2	4346.6	4357.4	4372.6	4390.7	4400.8	4415.2
3°	4307.8	4313.0	4305.9	4306.9	4313.1	4332.1	4344.0	4366.5	4389.6	4413.0	4439.8
4°	4348.6	4347.6	4333.9	4311.3	4297.4	4313.0	4332.6	4363.7	4399.0	4426.2	4458.9
5°	4414.0	4417.3	4396.8	4360.2	4305.0	4294.8	4320.4	4354.4	4396.8	4440.6	4478.2
6°	4445.0	4445.9	4444.7	4407.1	4340.7	4284.2	4305.0	4344.0	4396.2	4450.7	4492.8
7°	4420.0	4411.5	4424.4	4429.0	4384.1	4288.4	4289.2	4336.1	4396.8	4457.9	4508.4
8°	4342.5	4334.3	4349.0	4400.3	4409.9	4305.2	4271.4	4325.8	4397.8	4463.4	4519.0
9°	4300.1	4300.1	4300.6	4325.0	4402.6	4336.1	4249.7	4308.5	4388.1	4465.2	4530.2
10°	4281.3	4279.9	4278.8	4278.0	4349.5	4357.2	4236.4	4295.5	4384.6	4469.6	4542.6
11°	4265.3	4266.9	4262.4	4255.7	4286.7	4360.7	4224.0	4279.8	4372.2	4467.5	4547.9
12°	4262.1	4263.1	4251.4	4232.6	4241.8	4341.5	4216.9	4256.7	4366.5	4467.3	4559.8
13°	4252.5	4256.8	4246.1	4219.5	4215.7	4294.1	4221.5	4235.4	4355.7	4466.8	4571.0
14°	4242.1	4245.8	4228.4	4209.0	4188.6	4232.7	4232.2	4218.0	4346.6	4467.3	4581.9
15°	4231.7	4235.0	4218.4	4194.8	4164.0	4179.6	4231.2	4199.7	4332.9	4471.6	4597.6
16°	4224.3	4231.6	4212.7	4174.3	4146.2	4138.8	4234.7	4169.8	4320.4	4475.1	4610.0
17°	4217.2	4223.3	4203.3	4161.7	4121.1	4109.7	4217.7	4147.4	4305.9	4473.4	4625.7
18°	4205.5	4211.8	4188.1	4144.4	4095.9	4075.9	4188.1	4119.5	4298.6	4473.4	4642.0
19°	4193.6	4207.5	4180.7	4132.3	4068.4	4045.0	4146.7	4097.7	4285.1	4470.8	4656.4
20°	4191.3	4204.2	4169.3	4112.2	4051.1	4015.1	4091.1	4065.5	4270.4	4469.2	4660.0
21°	4187.7	4199.7	4163.2	4094.9	4028.5	3985.7	4028.5	4039.9	4259.5	4469.6	4671.2
22°	4183.2	4198.7	4158.9	4080.8	4001.4	3949.6	3966.4	4012.1	4239.2	4460.4	4678.7
23°	4183.7	4203.0	4154.5	4069.9	3974.8	3906.0	3913.7	3988.7	4219.2	4454.3	4688.1
24°	4179.9	4203.0	4152.8	4050.1	3948.6	3869.7	3867.2	3964.4	4191.6	4441.6	4695.8
25°	4177.7	4204.7	4151.2	4042.0	3926.8	3838.1	3821.3	3950.6	4162.1	4428.0	4699.1
26°	4183.2	4207.5	4145.1	4029.2	3902.0	3797.7	3777.4	3937.4	4134.3	4413.0	4704.6
27°	4181.5	4210.4	4146.7	4021.2	3877.3	3755.9	3730.8	3918.2	4097.3	4402.3	4708.6
28°	4185.0	4218.7	4146.7	4008.2	3849.7	3713.3	3690.2	3899.2	4059.4	4378.5	4711.4
29°	4194.3	4226.8	4148.5	3993.7	3826.9	3678.3	3645.1	3872.5	4019.6	4361.7	4717.3
30°	4196.1	4235.9	4155.1	3984.4	3801.1	3635.2	3593.3	3829.5	3975.5	4337.9	4726.1
31°	4213.6	4250.2	4157.6	3980.9	3776.9	3597.4	3538.6	3781.2	3928.9	4318.2	4730.2
32°	4220.2	4262.1	4169.3	3970.0	3749.8	3553.5	3488.8	3721.1	3886.8	4300.3	4726.9
33°	4224.0	4265.3	4171.0	3967.2	3718.3	3511.6	3430.2	3648.3	3839.0	4274.7	4736.3
34°	4223.5	4262.6	4168.2	3962.8	3698.3	3469.1	3379.3	3570.5	3791.4	4252.9	4731.8
35°	4224.3	4278.1	4163.9	3955.7	3668.6	3428.8	3323.7	3491.4	3741.7	4230.6	4738.4
36°	4241.1	4298.8	4167.3	3941.7	3644.3	3385.6	3265.4	3411.0	3692.3	4217.5	4741.7
37°	4262.8	4325.2	4184.5	3922.5	3620.4	3342.3	3205.0	3342.3	3643.1	4193.1	4748.7
38°	4278.3	4341.7	4202.3	3918.2	3594.8	3296.8	3148.8	3269.5	3596.3	4181.2	4748.8
39°	4285.2	4344.3	4214.1	3915.4	3562.7	3248.9	3092.7	3200.5	3547.2	4163.4	4750.5
40°	4288.7	4348.5	4211.8	3908.8	3526.9	3205.1	3036.6	3128.0	3494.6	4147.0	4746.7
41°	4294.8	4355.4	4210.3	3902.4	3499.0	3162.7	2967.4	3060.8	3442.9	4128.4	4751.6
42°	4300.7	4363.7	4224.1	3892.3	3474.4	3120.3	2900.0	2990.7	3391.5	4118.6	4741.2
43°	4307.2	4362.7	4226.8	3891.8	3455.6	3077.7	2829.4	2916.4	3342.3	4112.7	4733.0
44°	4297.9	4348.1	4226.1	3891.6	3435.0	3022.2	2761.3	2842.1	3287.4	4109.7	4714.0



REPORT NUMBER: P1449862

CATALOG NUMBER: TWC150\_T2\_90W\_5000K

**CANDELA DISTRIBUTION (continued):**

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	4280.4	4329.3	4211.9	3887.3	3398.1	2962.3	2693.0	2766.9	3232.5	4105.9	4690.6
46°	4254.4	4302.1	4187.8	3880.9	3366.1	2903.3	2625.0	2691.5	3182.7	4098.8	4659.2
47°	4227.6	4277.1	4158.9	3867.2	3337.4	2846.7	2557.6	2611.8	3129.5	4091.2	4620.4
48°	4197.9	4239.8	4130.7	3849.0	3312.0	2802.3	2488.4	2536.0	3081.1	4087.3	4572.3
49°	4162.6	4204.8	4095.7	3824.4	3280.7	2748.1	2418.4	2452.9	3030.6	4081.2	4526.3
50°	4124.7	4165.4	4064.0	3796.5	3247.1	2692.2	2346.1	2370.7	2978.3	4072.4	4469.8
51°	4082.6	4120.1	4026.5	3757.2	3208.4	2637.7	2272.6	2291.8	2930.9	4062.5	4404.9
52°	4041.2	4072.7	3983.3	3724.2	3173.1	2584.5	2192.4	2210.1	2881.7	4051.1	4320.6
53°	3985.1	4007.4	3936.0	3683.8	3145.4	2536.6	2110.8	2128.8	2837.1	4031.5	4231.2
54°	3925.1	3940.7	3886.8	3644.5	3117.8	2479.8	2029.3	2044.0	2798.3	4002.4	4124.4
55°	3856.6	3865.4	3821.6	3600.1	3090.2	2419.7	1956.5	1957.9	2761.5	3968.1	4006.5
56°	3778.4	3776.9	3751.1	3556.5	3053.2	2350.2	1879.2	1870.8	2732.9	3916.1	3875.3
57°	3688.9	3683.3	3668.4	3502.5	3012.6	2283.4	1797.1	1783.3	2713.8	3865.7	3717.9
58°	3588.8	3571.3	3575.9	3452.5	2974.5	2213.5	1715.1	1695.8	2690.2	3804.0	3549.5
59°	3481.3	3455.8	3476.2	3390.7	2938.2	2148.3	1635.8	1610.1	2671.0	3731.3	3352.7
60°	3363.3	3277.1	3366.4	3326.6	2889.8	2081.8	1557.3	1526.5	2647.1	3649.8	3138.3
61°	3149.8	3098.5	3179.0	3247.4	2839.6	2017.9	1479.2	1443.3	2624.0	3549.7	2903.7
62°	2936.5	2919.3	2991.8	3143.7	2786.6	1949.7	1398.2	1360.1	2614.2	3438.9	2646.3
63°	2723.2	2641.3	2803.9	3040.0	2721.1	1877.7	1313.6	1274.5	2603.7	3298.9	2366.1
64°	2505.9	2477.7	2547.4	2934.2	2657.3	1811.8	1229.6	1188.4	2598.7	3142.2	2056.5
65°	2389.7	2382.6	2395.0	2729.3	2583.9	1743.3	1145.8	1108.2	2587.5	2955.0	1706.7
66°	2302.0	2293.8	2293.8	2481.5	2509.2	1672.0	1064.9	1029.2	2580.9	2734.4	1353.6
67°	2214.2	2194.7	2211.9	2307.6	2422.9	1600.9	985.9	950.2	2576.1	2484.1	1000.4
68°	2112.2	2079.8	2125.2	2193.5	2315.6	1527.9	907.9	865.9	2547.2	2175.7	647.3
69°	2001.2	1951.5	2025.0	2083.4	2153.3	1452.0	831.8	784.4	2484.1	1817.3	389.1
70°	1885.3	1824.0	1924.9	1980.1	2006.0	1379.5	758.4	705.6	2374.2	1402.9	237.5
71°	1754.0	1679.8	1808.7	1884.3	1917.2	1306.1	690.9	627.6	2214.4	986.9	176.9
72°	1620.6	1548.8	1687.3	1803.6	1842.0	1235.3	628.0	555.5	2064.8	570.9	157.5
73°	1493.1	1426.6	1557.0	1728.0	1753.2	1158.3	563.1	486.5	1943.1	312.1	142.3
74°	1358.9	1290.5	1422.7	1650.4	1666.5	1046.8	504.0	425.3	1748.6	185.2	127.2
75°	1226.6	1151.8	1287.1	1569.8	1578.7	955.6	447.1	365.3	1524.4	158.0	112.2
76°	1084.6	995.5	1156.3	1480.4	1491.3	888.3	397.7	310.8	1212.2	132.6	96.1
77°	940.2	846.3	1020.8	1367.6	1400.8	823.7	348.3	265.7	897.1	107.2	82.4
78°	808.6	702.8	898.8	1230.5	1303.7	756.0	299.1	227.8	581.9	97.9	69.6
79°	666.4	529.0	771.7	1083.5	1209.9	692.7	257.7	195.8	325.2	93.4	58.0
80°	481.3	355.1	634.7	949.1	1110.5	633.2	211.5	163.1	175.8	85.4	49.4
81°	296.2	182.5	417.7	854.6	1002.3	572.2	171.7	132.9	142.8	69.7	43.8
82°	115.1	59.7	201.7	779.7	900.8	511.9	139.7	102.8	111.4	55.2	39.0
83°	84.2	47.1	142.3	547.6	787.9	449.6	109.5	72.6	79.9	39.9	34.8
84°	53.3	34.5	82.8	315.4	701.4	381.3	83.7	52.1	77.3	28.0	30.7
85°	22.7	21.9	23.9	83.5	619.6	313.0	60.9	36.2	67.2	21.7	25.4
86°	13.9	13.0	15.1	46.3	387.6	244.8	44.1	23.4	49.6	17.1	17.5
87°	6.7	6.4	7.0	9.2	158.5	182.6	27.3	15.9	29.4	11.4	10.8
88°	2.5	2.5	2.6	2.6	78.5	121.5	10.5	8.5	19.6	5.7	4.2
89°	0.5	0.5	0.5	0.7	1.0	60.4	1.5	1.1	10.0	1.1	1.2



REPORT NUMBER: P1449862  
 CATALOG NUMBER: TWC150\_T2\_90W\_5000K

**CANDELA DISTRIBUTION (continued):**

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1449862  
 CATALOG NUMBER: TWC150\_T2\_90W\_5000K

**CANDELA DISTRIBUTION (continued):**

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
139°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
153°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
161°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
163°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
168°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
169°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
171°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
173°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
174°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
176°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
178°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
179°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1449862  
CATALOG NUMBER: TWC150\_T2\_90W\_5000K

**CANDELA DISTRIBUTION (continued):**

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1449862  
 CATALOG NUMBER: TWC150\_T2\_90W\_5000K

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
0°	4374.9	4374.9	4374.9
1°	4400.5	4403.6	4402.8
2°	4428.0	4432.3	4440.3
3°	4451.8	4464.4	4469.8
4°	4481.7	4494.2	4503.5
5°	4504.6	4521.3	4531.4
6°	4524.8	4546.6	4555.5
7°	4544.3	4573.8	4579.1
8°	4563.9	4595.1	4599.4
9°	4580.8	4613.0	4624.5
10°	4596.3	4632.8	4648.5
11°	4614.9	4660.2	4676.5
12°	4634.9	4691.5	4706.2
13°	4660.3	4718.5	4732.5
14°	4682.6	4752.6	4766.5
15°	4708.6	4778.2	4800.7
16°	4732.7	4809.1	4828.9
17°	4752.8	4832.2	4857.8
18°	4775.1	4865.6	4893.3
19°	4797.9	4895.1	4925.3
20°	4821.5	4923.2	4954.6
21°	4846.1	4950.1	4987.9
22°	4865.1	4986.4	5021.8
23°	4882.9	5017.0	5056.6
24°	4910.3	5047.2	5090.1
25°	4929.1	5082.2	5117.7
26°	4953.6	5106.9	5144.3
27°	4976.0	5128.6	5177.4
28°	4995.2	5159.4	5203.0
29°	5007.4	5188.7	5234.7
30°	5033.6	5211.5	5251.4
31°	5050.6	5230.9	5275.5
32°	5066.7	5247.9	5290.0
33°	5082.0	5259.5	5306.1
34°	<b>5086.1</b>	<b>5265.4</b>	<b>5311.8</b>
35°	5100.5	5266.6	5308.5
36°	5106.0	5259.5	5291.7
37°	5098.5	5244.1	5273.5
38°	5094.4	5222.2	5242.5
39°	5078.7	5185.0	5205.2
40°	5054.8	5144.4	5164.4
41°	5020.1	5102.8	5119.2
42°	4983.8	5043.7	5056.6
43°	4937.9	4983.1	4976.5
44°	4886.2	4905.0	4891.0



REPORT NUMBER: P1449862  
 CATALOG NUMBER: TWC150\_T2\_90W\_5000K

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
45°	4827.3	4812.2	4797.4
46°	4757.6	4713.8	4697.0
47°	4670.6	4607.5	4575.8
48°	4580.8	4483.0	4444.9
49°	4473.1	4341.5	4304.7
50°	4355.7	4195.9	4152.0
51°	4225.6	4041.9	3984.7
52°	4081.8	3868.7	3808.1
53°	3932.7	3681.6	3617.1
54°	3758.9	3489.4	3419.4
55°	3573.3	3284.2	3209.8
56°	3374.0	3059.3	2984.9
57°	3161.9	2823.4	2730.5
58°	2931.7	2547.7	2424.9
59°	2690.8	2223.3	2081.1
60°	2413.1	1872.1	1725.2
61°	2099.1	1503.2	1389.9
62°	1742.5	1166.6	1054.9
63°	1398.5	830.4	719.9
64°	1054.7	551.0	466.7
65°	710.8	346.8	306.7
66°	448.3	244.9	236.1
67°	277.6	208.3	214.2
68°	204.1	191.9	199.1
69°	180.2	177.6	184.3
70°	164.8	163.5	169.8
71°	151.8	151.3	156.2
72°	138.2	139.1	145.3
73°	124.5	126.9	134.5
74°	113.9	116.4	123.7
75°	101.3	105.2	112.6
76°	87.7	95.1	103.3
77°	76.3	87.4	96.2
78°	68.2	81.7	91.6
79°	62.0	77.5	87.9
80°	57.3	73.7	83.1
81°	53.3	68.7	77.5
82°	49.1	63.0	70.8
83°	44.1	53.9	58.5
84°	35.5	43.8	46.3
85°	27.9	32.4	33.2
86°	18.2	23.4	23.2
87°	12.5	15.9	15.8
88°	6.8	8.5	8.5
89°	1.2	1.1	1.2



REPORT NUMBER: P1449862  
CATALOG NUMBER: TWC150\_T2\_90W\_5000K

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
90°	0.0	0.0	0.0
91°	0.0	0.0	0.0
92°	0.0	0.0	0.0
93°	0.0	0.0	0.0
94°	0.0	0.0	0.0
95°	0.0	0.0	0.0
96°	0.0	0.0	0.0
97°	0.0	0.0	0.0
98°	0.0	0.0	0.0
99°	0.0	0.0	0.0
100°	0.0	0.0	0.0
101°	0.0	0.0	0.0
102°	0.0	0.0	0.0
103°	0.0	0.0	0.0
104°	0.0	0.0	0.0
105°	0.0	0.0	0.0
106°	0.0	0.0	0.0
107°	0.0	0.0	0.0
108°	0.0	0.0	0.0
109°	0.0	0.0	0.0
110°	0.0	0.0	0.0
111°	0.0	0.0	0.0
112°	0.0	0.0	0.0
113°	0.0	0.0	0.0
114°	0.0	0.0	0.0
115°	0.0	0.0	0.0
116°	0.0	0.0	0.0
117°	0.0	0.0	0.0
118°	0.0	0.0	0.0
119°	0.0	0.0	0.0
120°	0.0	0.0	0.0
121°	0.0	0.0	0.0
122°	0.0	0.0	0.0
123°	0.0	0.0	0.0
124°	0.0	0.0	0.0
125°	0.0	0.0	0.0
126°	0.0	0.0	0.0
127°	0.0	0.0	0.0
128°	0.0	0.0	0.0
129°	0.0	0.0	0.0
130°	0.0	0.0	0.0
131°	0.0	0.0	0.0
132°	0.0	0.0	0.0
133°	0.0	0.0	0.0
134°	0.0	0.0	0.0



REPORT NUMBER: P1449862  
CATALOG NUMBER: TWC150\_T2\_90W\_5000K

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
135°	0.0	0.0	0.0
136°	0.0	0.0	0.0
137°	0.0	0.0	0.0
138°	0.0	0.0	0.0
139°	0.0	0.0	0.0
140°	0.0	0.0	0.0
141°	0.0	0.0	0.0
142°	0.0	0.0	0.0
143°	0.0	0.0	0.0
144°	0.0	0.0	0.0
145°	0.0	0.0	0.0
146°	0.0	0.0	0.0
147°	0.0	0.0	0.0
148°	0.0	0.0	0.0
149°	0.0	0.0	0.0
150°	0.0	0.0	0.0
151°	0.0	0.0	0.0
152°	0.0	0.0	0.0
153°	0.0	0.0	0.0
154°	0.0	0.0	0.0
155°	0.0	0.0	0.0
156°	0.0	0.0	0.0
157°	0.0	0.0	0.0
158°	0.0	0.0	0.0
159°	0.0	0.0	0.0
160°	0.0	0.0	0.0
161°	0.0	0.0	0.0
162°	0.0	0.0	0.0
163°	0.0	0.0	0.0
164°	0.0	0.0	0.0
165°	0.0	0.0	0.0
166°	0.0	0.0	0.0
167°	0.0	0.0	0.0
168°	0.0	0.0	0.0
169°	0.0	0.0	0.0
170°	0.0	0.0	0.0
171°	0.0	0.0	0.0
172°	0.0	0.0	0.0
173°	0.0	0.0	0.0
174°	0.0	0.0	0.0
175°	0.0	0.0	0.0
176°	0.0	0.0	0.0
177°	0.0	0.0	0.0
178°	0.0	0.0	0.0
179°	0.0	0.0	0.0

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



REPORT NUMBER: P1449862  
CATALOG NUMBER: TWC150\_T2\_90W\_5000K

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
180°	0.0	0.0	0.0

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

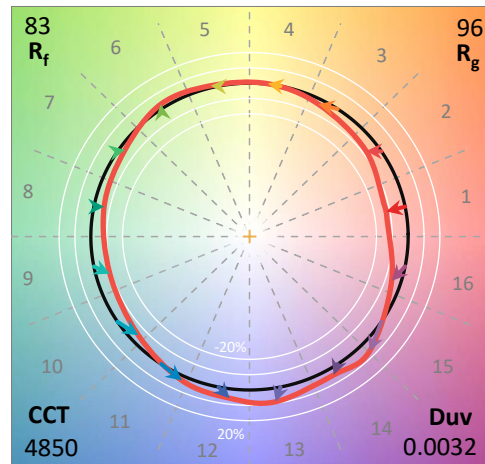
**Test Information**

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



**Test Conditions**

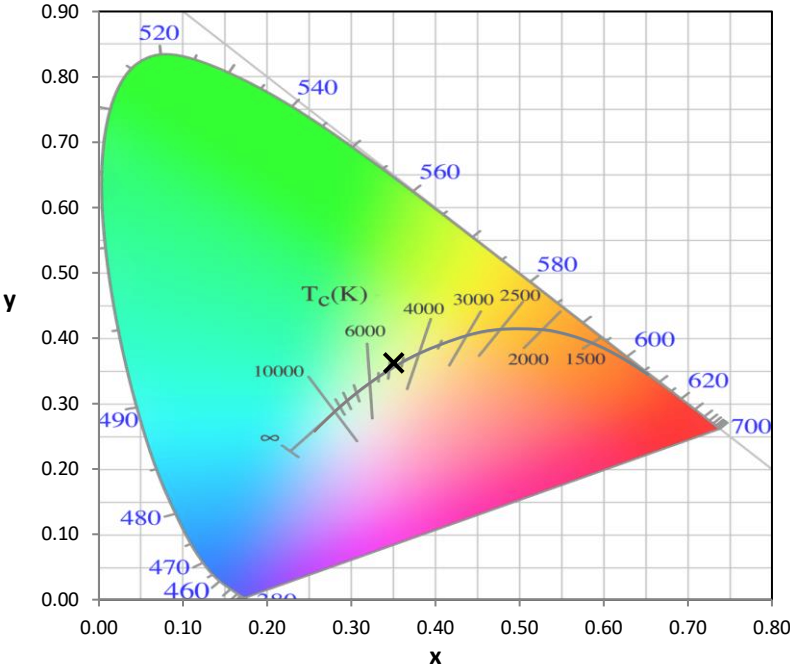
Stabilization Time: 25M  
 Operation Time: 1H 25M  
 Sphere Temperature (°C): 24.8

REPORT NUMBER: SP1-2601-659-3

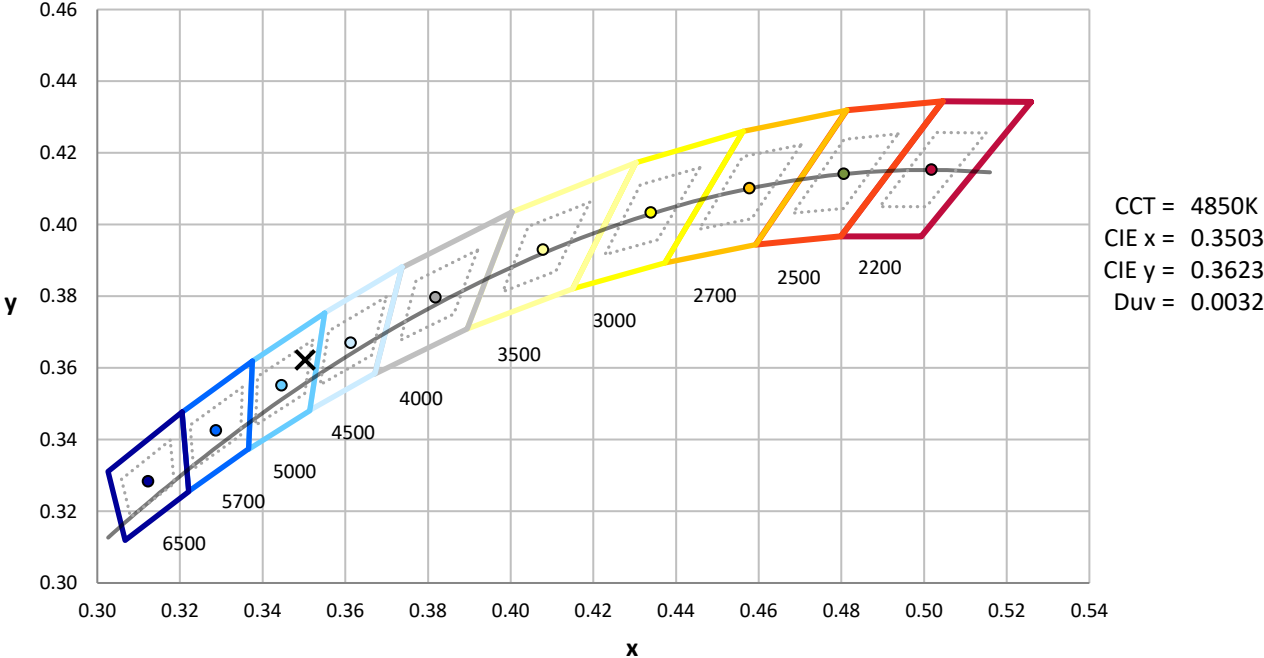
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208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



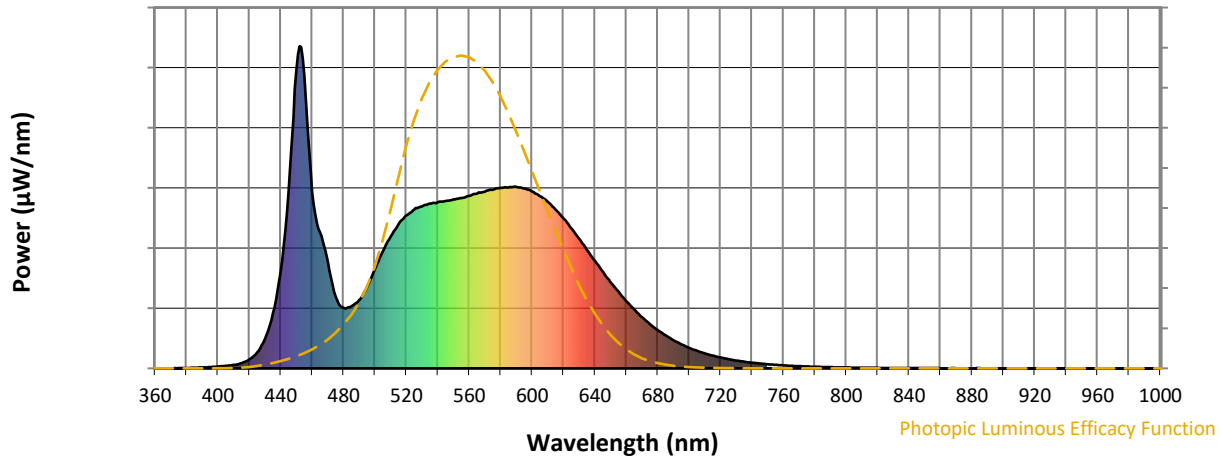
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2601-659-3

**Photopic Flux vs. Wavelength**

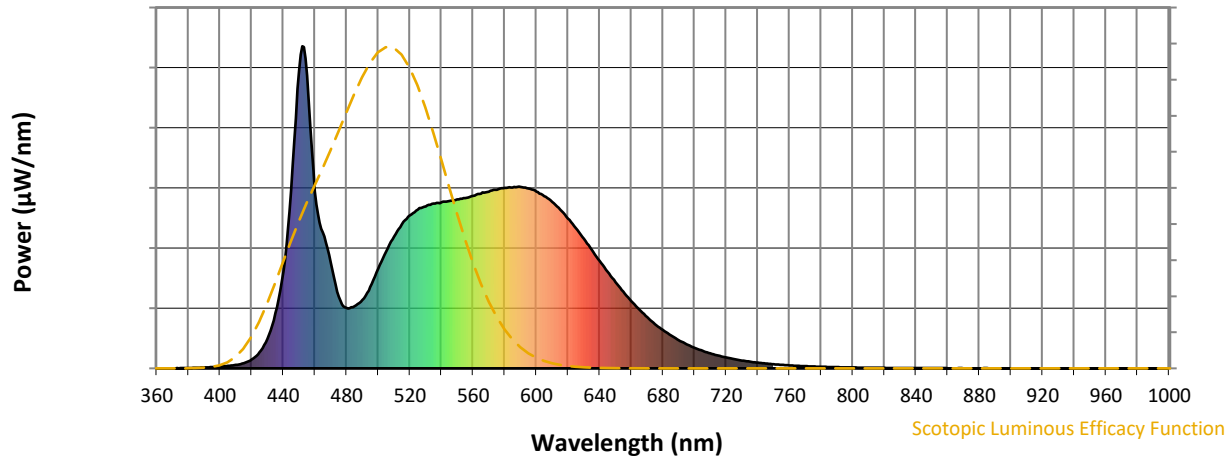


**Photopic Lumens: NR**

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /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			

REPORT NUMBER: SP1-2601-659-3

**Scotopic Flux vs. Wavelength**



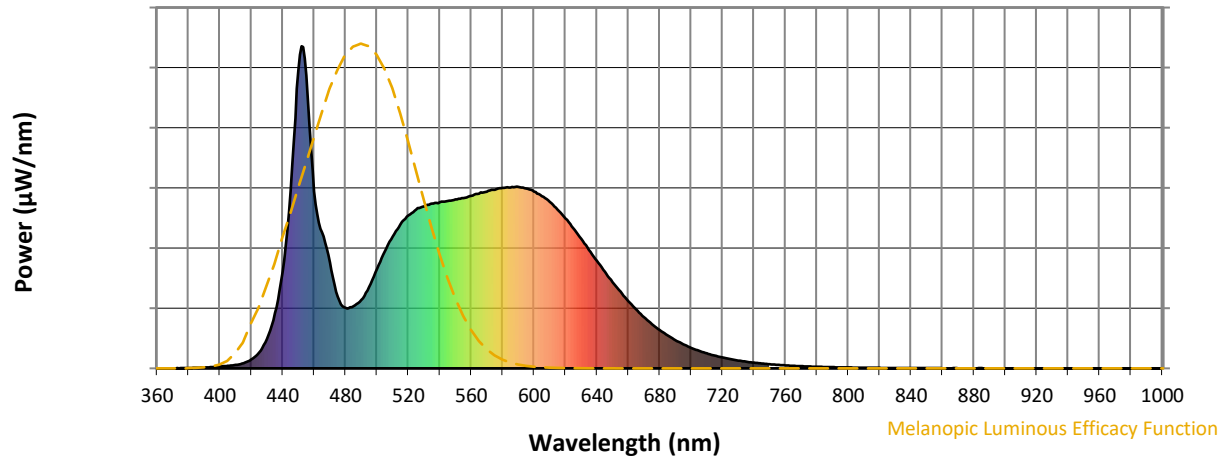
**Scotopic Lumens: NR**

**S/P: 1.9**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /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			

REPORT NUMBER: SP1-2601-659-3

**Melanopic Flux vs. Wavelength**



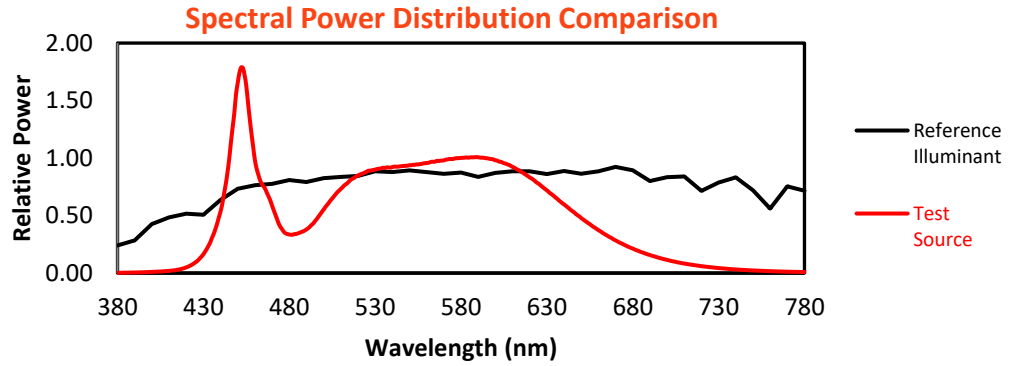
**Melanopic Lumens: NR**

**M/P: 4**

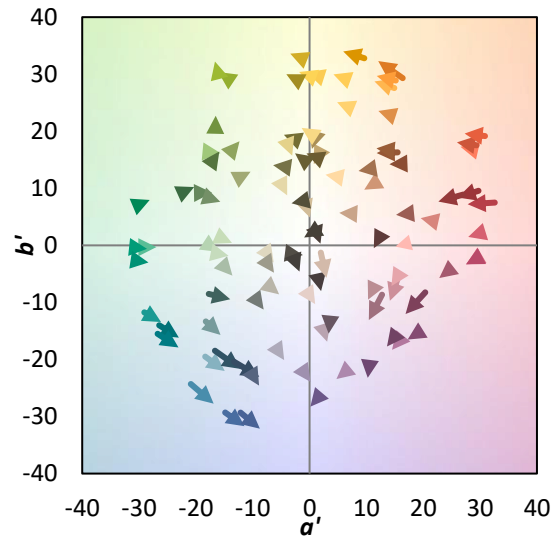
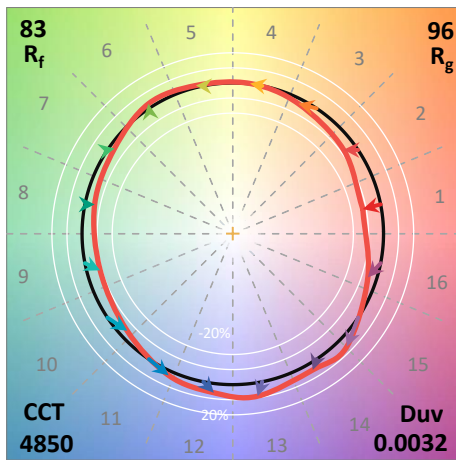
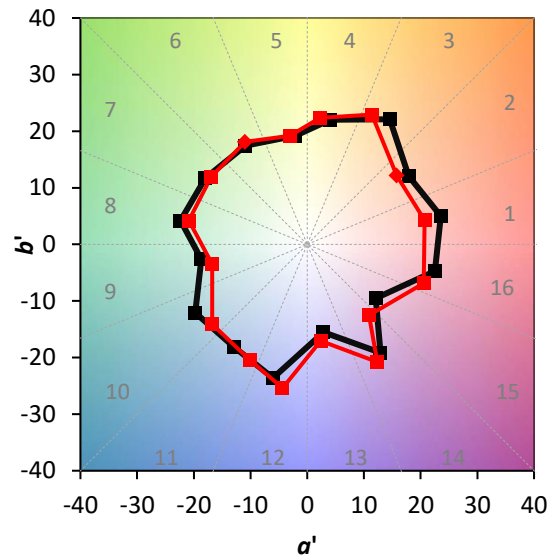
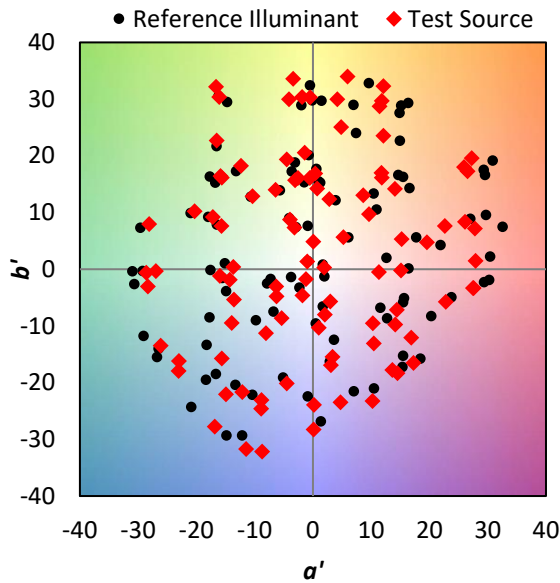
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	212	NR	620	465	NR	750	13	NR	880	0	NR
365	0	NR	495	253	NR	625	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			

**Summary**

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

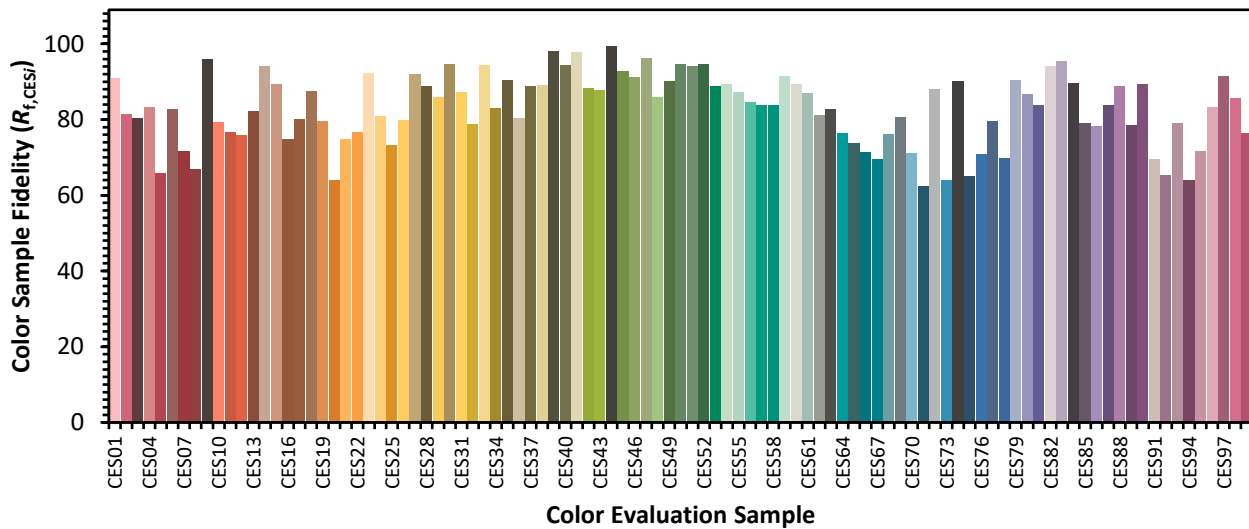


**Color Vector Graphics**

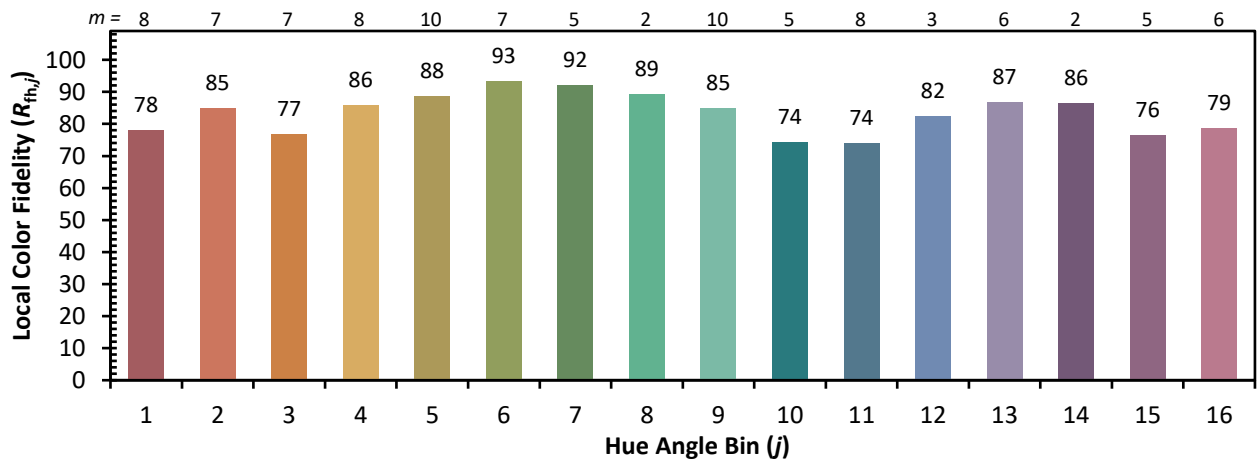
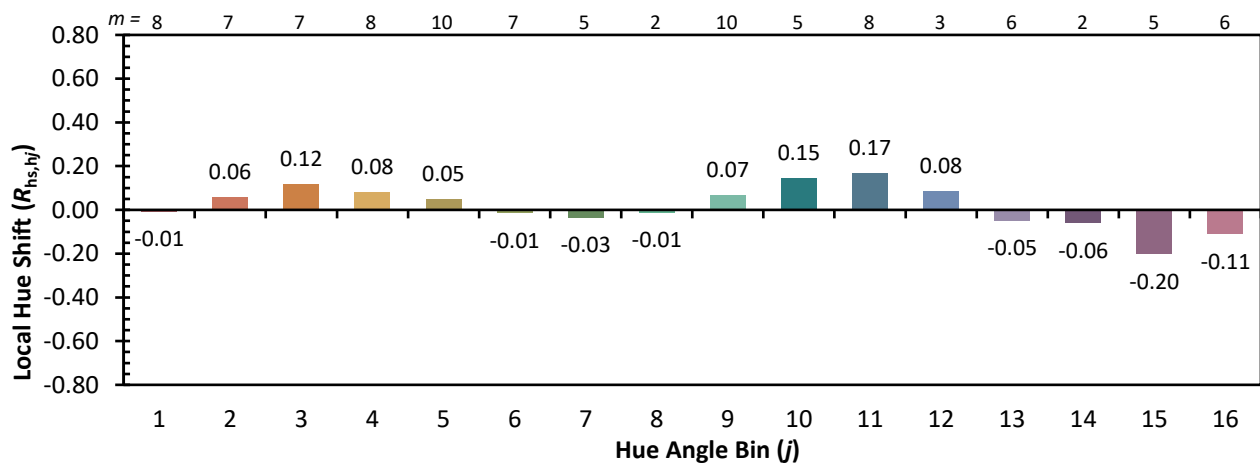
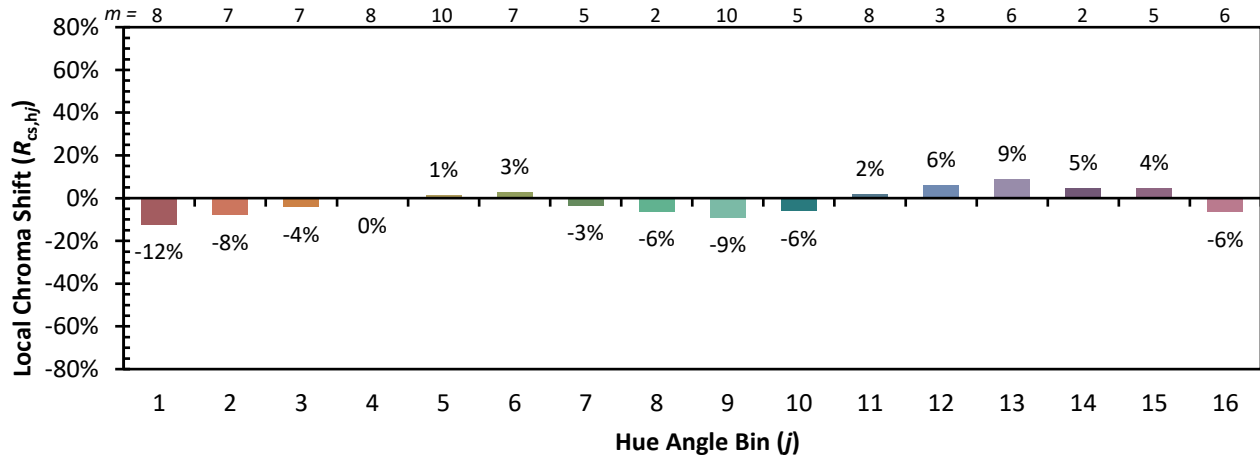


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

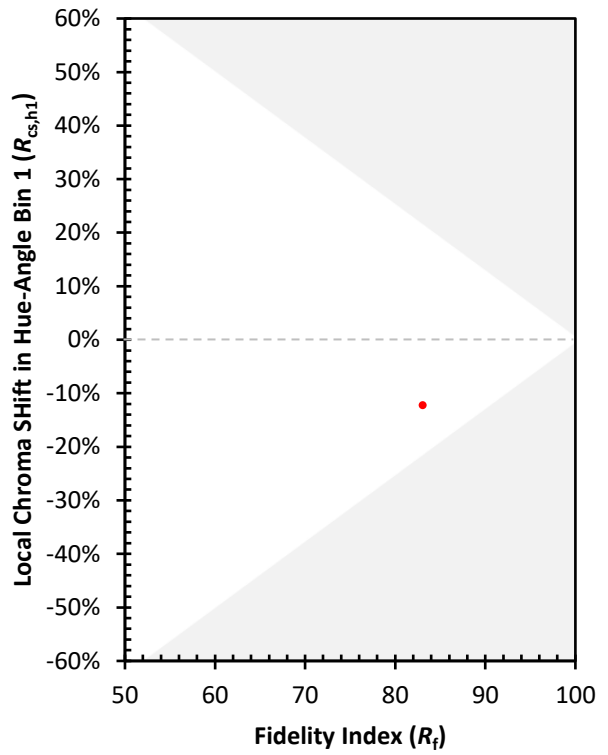
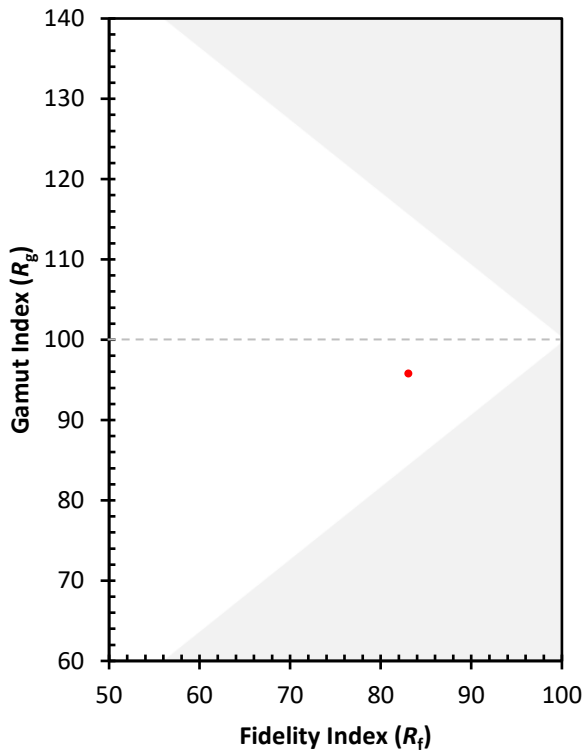
CES01 = 85	CES26 = 80	CES51 = 94	CES76 = 71
CES02 = 60	CES27 = 92	CES52 = 95	CES77 = 80
CES03 = 30	CES28 = 89	CES53 = 89	CES78 = 70
CES04 = 69	CES29 = 86	CES54 = 89	CES79 = 90
CES05 = 47	CES30 = 95	CES55 = 87	CES80 = 87
CES06 = 50	CES31 = 87	CES56 = 85	CES81 = 84
CES07 = 40	CES32 = 79	CES57 = 84	CES82 = 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	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)