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: P1449828

Luminaire Tested: **TWC100_T3_100W_4000K**

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: | P1449828 |
| | TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( 20260310005) |
| Test Lab: | INNOVATION CENTER |
| Issue Date: | 5/19/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | LUMARK |
| Catalog Number: | TWC100_T3_100W_4000K |
| Description: | Tapered Wall Cutoff Wall Mount Luminaire at, T3 distribution, 100W 4000K settings |
| Light Source: | - |
| Ballast/Driver: | - |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 16652 lumens |
| Efficiency: | N/A |
| Efficacy: | 177.1 lumens/watt |
| Luminous Opening: | Rectangular (W 0.92' x L: 0.42' x H: 0') |
| IES Classification: | Type III - Short |
| BUG Rating: | B3 - U3 - G3 |

| | |
|---|---|
| Input Watts (W): | 94 |
| 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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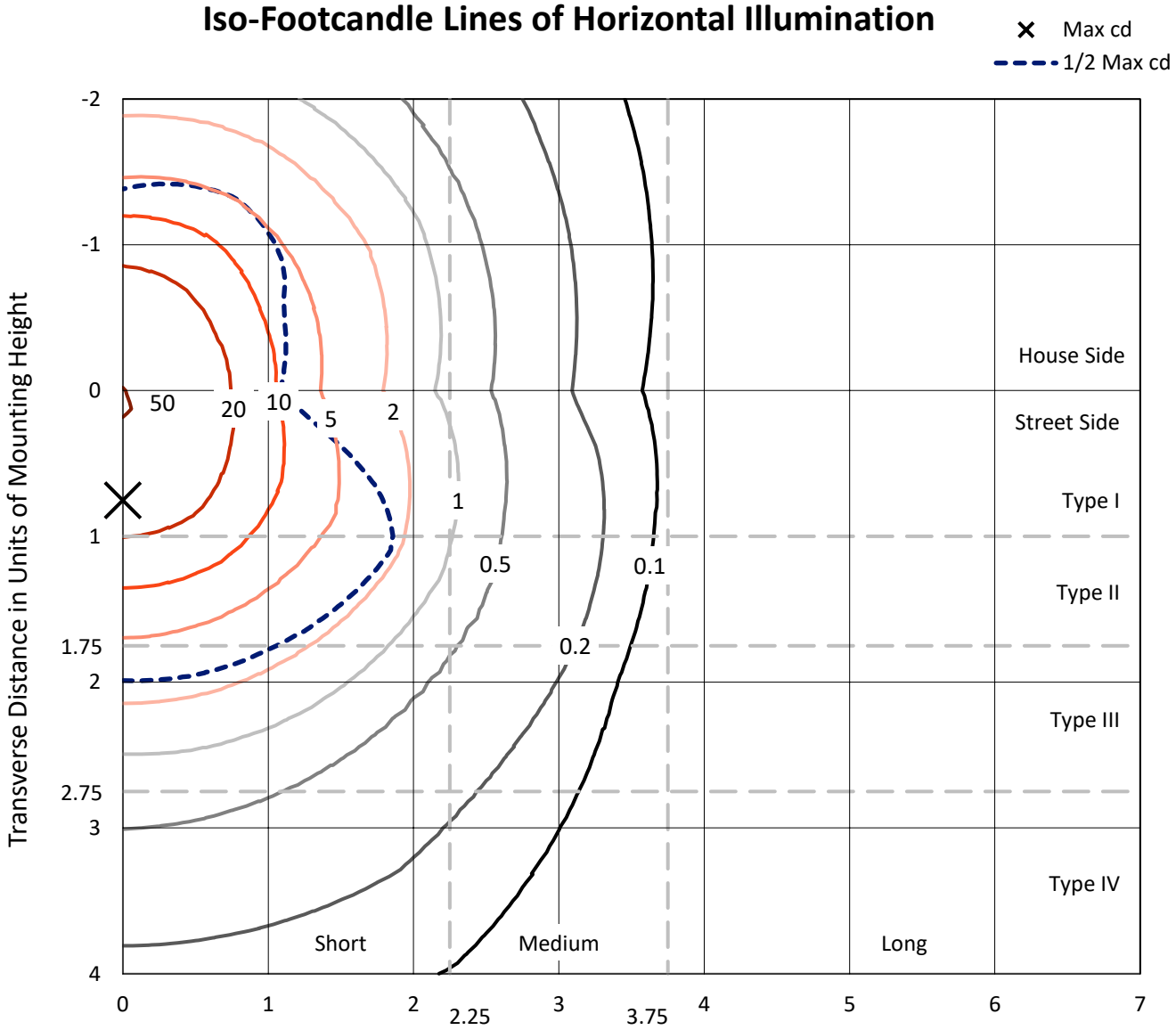
## Iso-Footcandle Lines of Horizontal Illumination




Based on 10 foot mounting height. Maximum calculated value = 50.8 fc
Type III - Short - N/A

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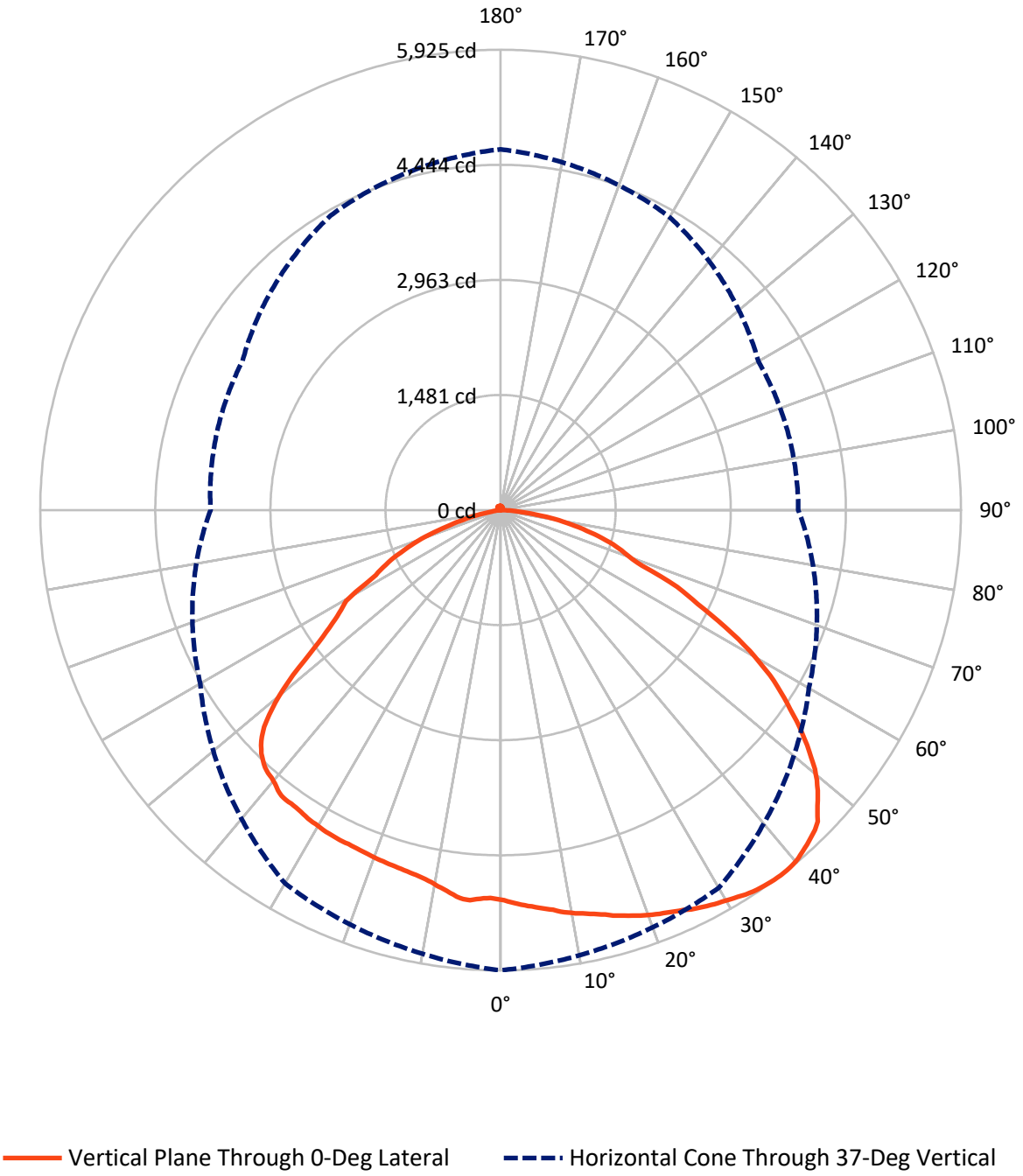
## Luminous Intensity Polar Plot



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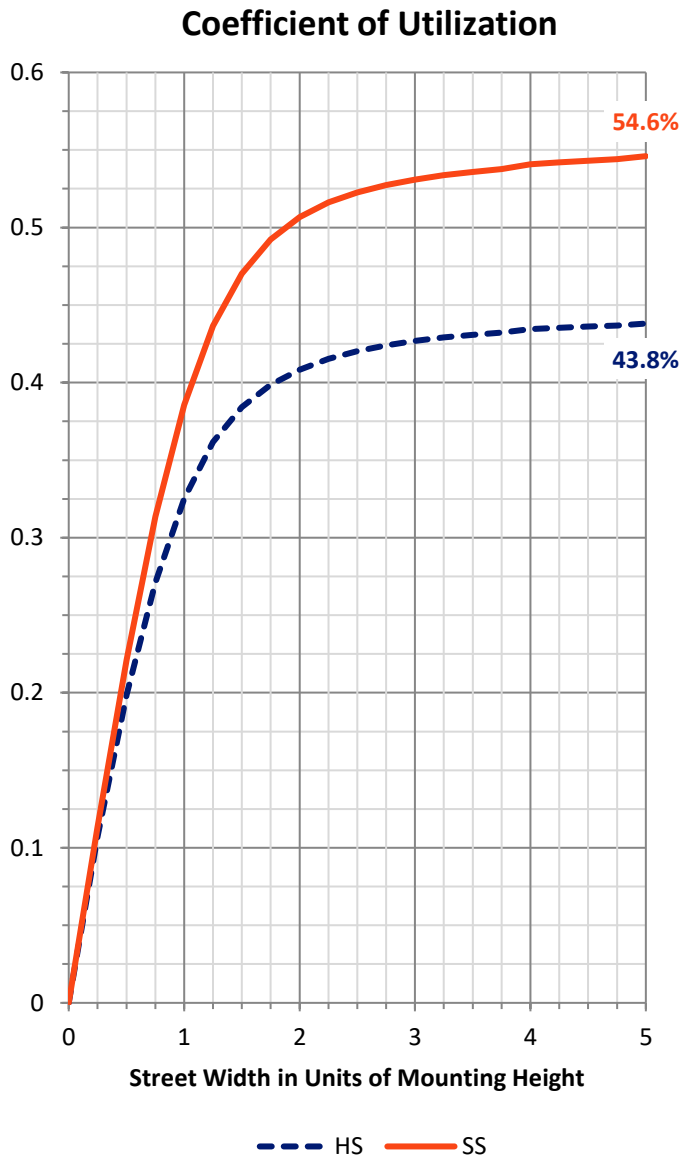
**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 7334.2 | 99.9 | 7434.1 |
| | % Fixture | 44.0 | 0.6 | 44.6 |
| **Street Side** | Lumens | 9138.4 | 79.6 | 9217.9 |
| | % Fixture | 54.9 | 0.5 | 55.4 |
| **Total** | Lumens | 16472.5 | 179.5 | 16652.0 |
| | % Fixture | 98.9 | 1.1 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 480.9 | 2.9 |
| 10°-20° | 1407.9 | 8.5 |
| 20°-30° | 2235.7 | 13.4 |
| 30°-40° | 2895.6 | 17.4 |
| 40°-50° | 3255.4 | 19.5 |
| 50°-60° | 3010.9 | 18.1 |
| 60°-70° | 2060.2 | 12.4 |
| 70°-80° | 918.6 | 5.5 |
| 80°-90° | 207.3 | 1.2 |
| 90°-100° | 8.7 | 0.1 |
| 100°-110° | 16.2 | 0.1 |
| 110°-120° | 24.1 | 0.1 |
| 120°-130° | 29.5 | 0.2 |
| 130°-140° | 30.8 | 0.2 |
| 140°-150° | 28.3 | 0.2 |
| 150°-160° | 22.5 | 0.1 |
| 160°-170° | 14.4 | 0.1 |
| 170°-180° | 5.0 | 0.0 |
| 0°-90° | 16472.5 | 98.9 |
| 0°-180° | 16652.0 | 100.0 |



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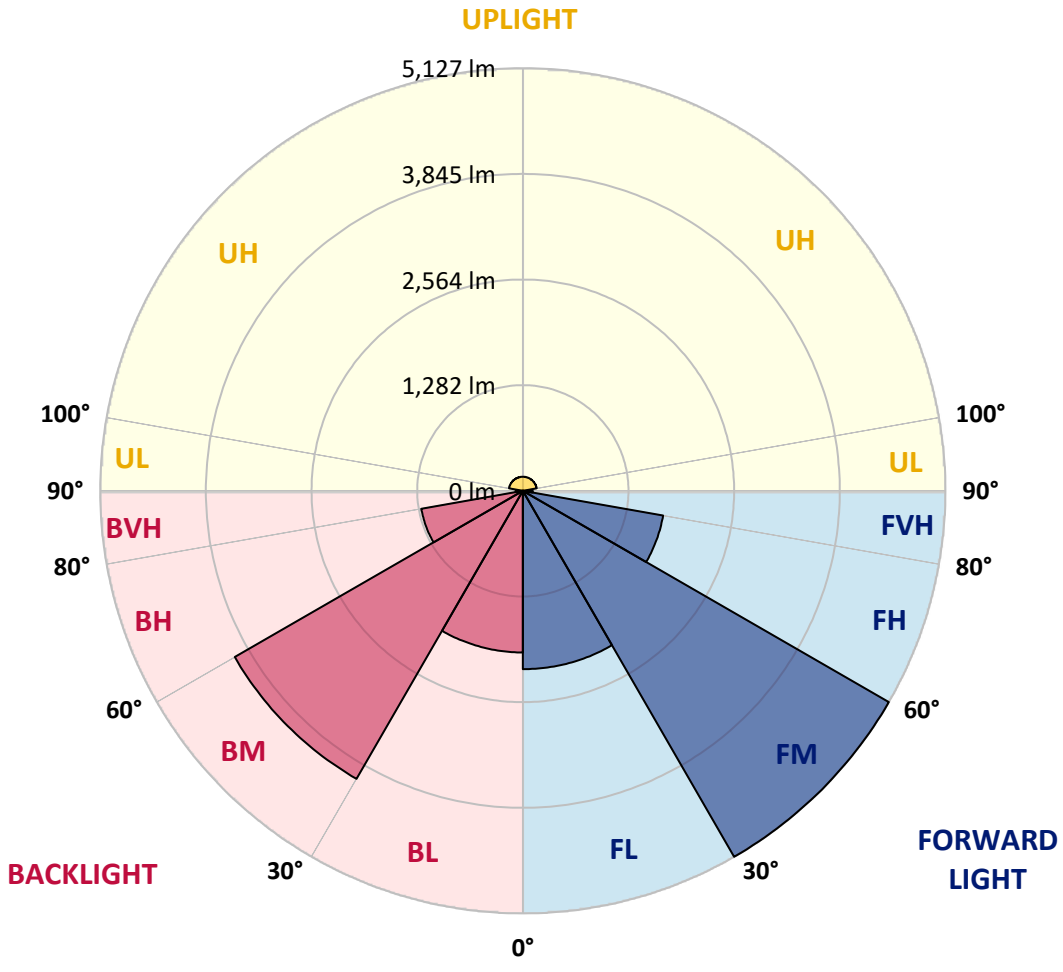
## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 2163.6 | 13.0 | | | |
| FM | (30°-60°) | 5127.0 | 30.8 | | | |
| FH | (60°-80°) | 1727.8 | 10.4 | | | G1/1800 |
| FVH | (80°-90°) | 120.0 | 0.7 | | | G2/225 |
| BL | (0°-30°) | 1961.0 | 11.8 | B3/2500 | | |
| BM | (30°-60°) | 4034.9 | 24.2 | B3/5000 | | |
| BH | (60°-80°) | 1251.0 | 7.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 87.3 | 0.5 | | | G1/100 |
| UL | (90°-100°) | 8.7 | 0.1 | | U1/10 | |
| UH | (100°-180°) | 170.8 | 1.0 | | U3/500 | |

**BUG Rating: B3-U3-G3**
Type III Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 30° | 60° | 90° | 120° | 150° | 180° | 210° | 240° | 270° | 300° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 5023.7 | 5023.7 | 5023.7 | 5023.7 | 5023.7 | 5023.7 | 5023.7 | 5023.7 | 5023.7 | 5023.7 | 5023.7 |
| 1° | 5048.6 | 5038.3 | 5034.3 | 5026.2 | 5008.1 | 5005.1 | 5005.9 | 5001.0 | 5009.0 | 5017.3 | 5038.6 |
| 2° | 5072.1 | 5060.1 | 5044.4 | 5025.8 | 4996.2 | 4988.1 | 4996.0 | 4995.1 | 4994.9 | 5012.8 | 5048.8 |
| 3° | 5097.9 | 5086.2 | 5052.6 | 5011.4 | 4983.3 | 4975.7 | 5001.8 | 4990.8 | 4983.9 | 5006.5 | 5057.2 |
| 4° | 5118.7 | 5103.7 | 5060.0 | 5006.2 | 4969.6 | 4965.1 | 5018.6 | 4999.6 | 4973.7 | 4998.2 | 5056.6 |
| 5° | 5143.6 | 5123.5 | 5068.7 | 4999.1 | 4965.1 | 4975.6 | 5038.5 | 5014.0 | 4959.8 | 4988.4 | 5059.7 |
| 6° | 5168.1 | 5146.5 | 5071.2 | 4987.9 | 4955.3 | 4994.7 | 5032.1 | 5024.4 | 4957.8 | 4977.2 | 5062.5 |
| 7° | 5190.0 | 5163.6 | 5083.0 | 4985.1 | 4949.0 | 5007.1 | 5006.6 | 5015.9 | 4959.3 | 4962.4 | 5064.3 |
| 8° | 5227.0 | 5182.9 | 5085.7 | 4972.8 | 4951.3 | 5006.3 | 4970.2 | 4988.8 | 4962.8 | 4946.7 | 5066.8 |
| 9° | 5252.6 | 5200.9 | 5086.3 | 4955.9 | 4952.3 | 4980.0 | 4935.0 | 4950.8 | 4976.6 | 4930.7 | 5065.2 |
| 10° | 5278.3 | 5213.0 | 5075.2 | 4932.7 | 4956.7 | 4937.5 | 4908.5 | 4914.4 | 4971.2 | 4913.5 | 5061.9 |
| 11° | 5298.2 | 5230.1 | 5073.3 | 4914.2 | 4947.4 | 4891.0 | 4872.5 | 4881.7 | 4956.0 | 4892.5 | 5060.5 |
| 12° | 5323.6 | 5248.7 | 5072.1 | 4894.0 | 4935.0 | 4861.2 | 4849.3 | 4855.8 | 4919.2 | 4868.3 | 5054.8 |
| 13° | 5350.2 | 5278.1 | 5067.6 | 4868.2 | 4912.5 | 4831.6 | 4829.6 | 4822.6 | 4877.9 | 4834.0 | 5048.3 |
| 14° | 5378.0 | 5294.6 | 5068.7 | 4843.9 | 4874.9 | 4802.7 | 4816.3 | 4797.1 | 4829.7 | 4806.5 | 5040.7 |
| 15° | 5415.3 | 5312.9 | 5061.9 | 4818.9 | 4830.6 | 4773.4 | 4805.2 | 4776.0 | 4785.3 | 4778.6 | 5025.2 |
| 16° | 5443.0 | 5327.9 | 5056.9 | 4792.8 | 4784.6 | 4750.7 | 4793.5 | 4756.9 | 4741.7 | 4755.3 | 5016.6 |
| 17° | 5474.9 | 5349.8 | 5050.7 | 4763.6 | 4740.7 | 4732.7 | 4783.6 | 4734.3 | 4700.8 | 4726.9 | 5006.5 |
| 18° | 5505.5 | 5367.3 | 5040.5 | 4732.6 | 4686.1 | 4714.4 | 4776.3 | 4715.6 | 4662.1 | 4695.8 | 5001.8 |
| 19° | 5534.5 | 5386.5 | 5029.5 | 4701.3 | 4643.8 | 4696.6 | 4768.9 | 4700.8 | 4618.5 | 4663.8 | 4988.0 |
| 20° | 5560.0 | 5403.3 | 5019.0 | 4658.9 | 4600.2 | 4676.5 | 4761.4 | 4688.9 | 4579.0 | 4624.7 | 4972.9 |
| 21° | 5585.7 | 5418.9 | 4997.2 | 4625.3 | 4556.7 | 4651.2 | 4753.6 | 4672.6 | 4537.4 | 4591.9 | 4956.5 |
| 22° | 5607.7 | 5432.8 | 4982.3 | 4590.3 | 4516.4 | 4633.1 | 4741.6 | 4656.9 | 4499.4 | 4562.3 | 4927.8 |
| 23° | 5633.9 | 5453.1 | 4964.3 | 4560.3 | 4475.0 | 4615.9 | 4735.6 | 4640.4 | 4452.7 | 4528.9 | 4906.8 |
| 24° | 5658.9 | 5466.9 | 4947.1 | 4526.4 | 4435.0 | 4599.7 | 4730.8 | 4618.7 | 4416.9 | 4499.7 | 4884.3 |
| 25° | 5695.2 | 5479.7 | 4934.9 | 4492.3 | 4392.5 | 4588.2 | 4724.5 | 4604.8 | 4375.4 | 4472.0 | 4862.6 |
| 26° | 5721.8 | 5492.2 | 4913.6 | 4460.1 | 4351.7 | 4574.7 | 4726.4 | 4588.5 | 4337.5 | 4438.2 | 4835.8 |
| 27° | 5745.6 | 5496.7 | 4891.5 | 4421.8 | 4309.5 | 4556.9 | 4720.8 | 4571.3 | 4296.5 | 4401.0 | 4809.5 |
| 28° | 5772.2 | 5509.8 | 4854.4 | 4386.6 | 4266.4 | 4533.5 | 4715.7 | 4555.8 | 4255.0 | 4359.9 | 4782.0 |
| 29° | 5792.3 | 5522.3 | 4828.7 | 4349.1 | 4212.0 | 4513.6 | 4712.1 | 4539.4 | 4212.5 | 4314.2 | 4751.4 |
| 30° | 5817.0 | 5532.1 | 4802.7 | 4306.5 | 4167.7 | 4494.1 | 4700.6 | 4522.7 | 4159.3 | 4257.7 | 4721.3 |
| 31° | 5840.9 | 5551.8 | 4776.8 | 4252.9 | 4121.5 | 4476.8 | 4692.2 | 4503.1 | 4115.0 | 4179.6 | 4689.3 |
| 32° | 5869.5 | 5565.5 | 4749.5 | 4198.1 | 4075.0 | 4454.3 | 4684.1 | 4487.8 | 4072.5 | 4107.3 | 4657.6 |
| 33° | 5886.8 | 5577.5 | 4721.1 | 4138.0 | 4031.9 | 4436.8 | 4673.9 | 4470.8 | 4028.9 | 4032.9 | 4613.0 |
| 34° | 5902.6 | 5590.4 | 4689.9 | 4066.3 | 3984.9 | 4418.6 | 4657.8 | 4454.1 | 3981.5 | 3958.7 | 4577.0 |
| 35° | 5913.9 | 5598.6 | 4657.6 | 3986.7 | 3938.6 | 4398.1 | 4647.8 | 4426.3 | 3933.7 | 3886.6 | 4538.6 |
| 36° | 5921.0 | 5605.7 | 4618.2 | 3909.4 | 3889.8 | 4378.2 | 4640.5 | 4400.5 | 3884.0 | 3809.5 | 4499.2 |
| 37° | 5925.0 | 5613.7 | 4581.3 | 3831.3 | 3829.1 | 4352.7 | 4643.1 | 4376.3 | 3835.9 | 3732.4 | 4464.4 |
| 38° | 5922.2 | 5614.9 | 4544.5 | 3750.1 | 3776.7 | 4326.9 | 4635.0 | 4358.2 | 3782.9 | 3643.0 | 4423.7 |
| 39° | 5913.1 | 5613.6 | 4507.8 | 3653.7 | 3725.5 | 4308.3 | 4605.1 | 4351.3 | 3731.0 | 3563.7 | 4383.9 |
| 40° | 5897.8 | 5604.3 | 4462.4 | 3573.0 | 3672.3 | 4293.3 | 4565.2 | 4338.1 | 3678.9 | 3484.5 | 4333.6 |
| 41° | 5866.6 | 5594.2 | 4429.7 | 3492.3 | 3614.3 | 4272.2 | 4533.7 | 4306.2 | 3624.5 | 3406.3 | 4293.3 |
| 42° | 5838.0 | 5580.7 | 4396.2 | 3412.9 | 3559.4 | 4242.6 | 4519.3 | 4258.6 | 3559.6 | 3329.1 | 4255.7 |
| 43° | 5805.6 | 5555.6 | 4363.8 | 3329.0 | 3503.7 | 4192.0 | 4489.1 | 4220.7 | 3503.3 | 3242.1 | 4219.8 |
| 44° | 5771.4 | 5527.3 | 4338.6 | 3246.4 | 3444.9 | 4165.8 | 4443.3 | 4202.3 | 3444.4 | 3163.8 | 4183.3 |

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REPORT NUMBER: P1449828
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**CANDELA DISTRIBUTION (continued):**

| | 0° | 30° | 60° | 90° | 120° | 150° | 180° | 210° | 240° | 270° | 300° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 45° | 5721.7 | 5493.6 | 4310.6 | 3165.9 | 3379.1 | 4146.1 | 4391.4 | 4170.4 | 3385.8 | 3084.1 | 4152.3 |
| 46° | 5621.3 | 5455.4 | 4284.9 | 3074.5 | 3315.2 | 4116.5 | 4321.9 | 4125.3 | 3333.8 | 2997.7 | 4121.3 |
| 47° | 5536.3 | 5398.4 | 4250.5 | 2990.5 | 3257.0 | 4071.8 | 4235.7 | 4072.8 | 3290.3 | 2914.2 | 4093.0 |
| 48° | 5448.2 | 5323.4 | 4226.2 | 2904.8 | 3209.7 | 4016.1 | 4130.0 | 4020.0 | 3237.3 | 2830.8 | 4063.5 |
| 49° | 5351.9 | 5217.0 | 4200.9 | 2819.2 | 3152.3 | 3962.3 | 3977.5 | 3961.6 | 3151.4 | 2745.4 | 4036.4 |
| 50° | 5241.9 | 5132.1 | 4175.8 | 2732.0 | 3078.8 | 3906.7 | 3814.3 | 3878.7 | 3086.7 | 2647.0 | 4008.3 |
| 51° | 5107.2 | 5048.3 | 4151.3 | 2635.9 | 3005.1 | 3837.8 | 3621.0 | 3780.4 | 3033.4 | 2560.6 | 3979.6 |
| 52° | 4971.0 | 4938.4 | 4124.1 | 2549.1 | 2950.1 | 3735.7 | 3412.4 | 3663.7 | 2974.8 | 2475.0 | 3951.1 |
| 53° | 4828.2 | 4811.9 | 4094.0 | 2460.2 | 2893.4 | 3625.9 | 3175.2 | 3524.1 | 2906.8 | 2386.6 | 3911.6 |
| 54° | 4682.1 | 4652.6 | 4062.3 | 2366.0 | 2830.3 | 3492.2 | 2978.1 | 3358.5 | 2841.9 | 2291.8 | 3877.4 |
| 55° | 4520.7 | 4505.6 | 4030.2 | 2276.3 | 2763.6 | 3320.4 | 2809.8 | 3146.2 | 2775.2 | 2201.6 | 3844.5 |
| 56° | 4376.5 | 4344.8 | 3998.0 | 2184.6 | 2685.5 | 3136.6 | 2674.3 | 2941.6 | 2704.3 | 2109.1 | 3815.5 |
| 57° | 4226.0 | 4164.4 | 3961.4 | 2079.0 | 2613.5 | 2937.3 | 2555.2 | 2742.9 | 2624.6 | 2013.3 | 3778.0 |
| 58° | 4066.3 | 3996.9 | 3908.6 | 1983.0 | 2537.2 | 2734.0 | 2462.4 | 2566.7 | 2543.9 | 1919.7 | 3736.7 |
| 59° | 3872.3 | 3829.6 | 3811.5 | 1888.5 | 2455.5 | 2529.4 | 2380.3 | 2414.7 | 2462.2 | 1813.7 | 3666.1 |
| 60° | 3686.1 | 3660.6 | 3732.8 | 1793.5 | 2362.9 | 2383.7 | 2305.2 | 2303.2 | 2376.5 | 1718.5 | 3571.9 |
| 61° | 3482.6 | 3477.8 | 3650.7 | 1691.5 | 2278.4 | 2269.8 | 2141.4 | 2213.0 | 2275.7 | 1623.4 | 3493.2 |
| 62° | 3256.5 | 3303.4 | 3528.2 | 1600.9 | 2188.5 | 2176.4 | 1939.8 | 2133.1 | 2188.7 | 1521.1 | 3395.5 |
| 63° | 3025.6 | 3129.4 | 3378.6 | 1510.1 | 2089.4 | 2092.5 | 1810.4 | 2046.2 | 2095.2 | 1439.1 | 3261.9 |
| 64° | 2808.5 | 2948.1 | 3197.3 | 1418.4 | 1996.4 | 2016.8 | 1725.0 | 1899.6 | 1987.1 | 1358.4 | 3078.0 |
| 65° | 2644.0 | 2715.9 | 2985.7 | 1324.6 | 1898.0 | 1876.5 | 1635.8 | 1747.0 | 1853.2 | 1268.6 | 2874.7 |
| 66° | 2479.8 | 2486.6 | 2710.1 | 1239.8 | 1785.8 | 1713.1 | 1546.0 | 1657.2 | 1702.6 | 1176.8 | 2633.7 |
| 67° | 2231.7 | 2294.2 | 2432.5 | 1145.4 | 1639.0 | 1634.3 | 1447.0 | 1592.7 | 1529.5 | 1091.1 | 2355.0 |
| 68° | 1952.7 | 2111.0 | 2132.3 | 1051.6 | 1479.0 | 1572.3 | 1339.8 | 1528.6 | 1361.3 | 1003.9 | 2029.8 |
| 69° | 1809.3 | 1838.3 | 1829.6 | 951.1 | 1303.6 | 1509.5 | 1241.3 | 1454.8 | 1207.9 | 903.6 | 1715.3 |
| 70° | 1723.5 | 1612.2 | 1549.4 | 863.9 | 1136.7 | 1430.4 | 1137.5 | 1372.8 | 1108.4 | 814.8 | 1412.8 |
| 71° | 1643.0 | 1513.8 | 1356.4 | 777.1 | 1022.5 | 1358.7 | 1030.4 | 1301.4 | 1039.0 | 729.9 | 1185.9 |
| 72° | 1557.9 | 1440.0 | 1377.1 | 686.7 | 946.3 | 1290.6 | 902.0 | 1226.2 | 957.9 | 647.8 | 1108.7 |
| 73° | 1465.8 | 1373.3 | 1497.6 | 607.2 | 874.0 | 1213.2 | 782.9 | 1147.2 | 875.9 | 562.4 | 1302.4 |
| 74° | 1356.9 | 1306.8 | 1175.2 | 533.6 | 786.5 | 1136.9 | 673.9 | 1054.0 | 827.0 | 489.5 | 1158.7 |
| 75° | 1249.0 | 1235.8 | 767.1 | 464.9 | 737.3 | 1058.2 | 576.4 | 958.9 | 780.8 | 423.0 | 693.8 |
| 76° | 1141.5 | 1146.4 | 640.0 | 395.1 | 691.9 | 968.3 | 489.2 | 850.1 | 729.8 | 362.1 | 550.8 |
| 77° | 1028.4 | 1060.6 | 563.6 | 340.2 | 638.2 | 849.9 | 419.4 | 742.2 | 679.1 | 304.1 | 482.9 |
| 78° | 924.2 | 986.1 | 561.8 | 290.3 | 593.7 | 742.7 | 353.8 | 635.2 | 634.8 | 255.8 | 464.9 |
| 79° | 817.4 | 918.8 | 556.2 | 246.7 | 551.4 | 642.7 | 272.0 | 552.7 | 591.5 | 213.0 | 493.0 |
| 80° | 712.6 | 845.3 | 423.7 | 201.8 | 510.8 | 560.4 | 178.6 | 478.8 | 541.7 | 173.1 | 364.1 |
| 81° | 598.0 | 768.8 | 294.5 | 161.8 | 464.4 | 478.8 | 112.3 | 399.6 | 494.1 | 136.8 | 246.1 |
| 82° | 494.4 | 667.8 | 248.8 | 125.7 | 421.1 | 406.0 | 88.4 | 314.5 | 446.8 | 102.3 | 204.3 |
| 83° | 391.2 | 546.1 | 216.8 | 92.0 | 375.7 | 315.5 | 68.2 | 195.3 | 395.6 | 77.6 | 176.5 |
| 84° | 299.8 | 470.7 | 186.1 | 67.9 | 326.9 | 189.1 | 50.6 | 90.2 | 335.4 | 57.8 | 154.5 |
| 85° | 204.4 | 395.2 | 158.3 | 49.1 | 277.9 | 73.9 | 40.2 | 46.2 | 278.2 | 40.4 | 131.4 |
| 86° | 145.0 | 292.0 | 133.7 | 34.2 | 217.6 | 38.2 | 25.3 | 31.1 | 227.1 | 28.0 | 107.1 |
| 87° | 86.3 | 194.8 | 96.3 | 20.2 | 172.7 | 23.1 | 15.9 | 19.2 | 161.0 | 18.2 | 73.5 |
| 88° | 30.4 | 71.9 | 41.7 | 10.4 | 100.4 | 12.3 | 10.9 | 11.8 | 60.6 | 10.5 | 25.7 |
| 89° | 3.7 | 4.0 | 3.9 | 4.3 | 25.9 | 6.1 | 8.6 | 8.7 | 8.6 | 5.8 | 6.6 |

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Scaled Data Report

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CATALOG NUMBER: TWC100_T3_100W_4000K

**CANDELA DISTRIBUTION (continued):**

| | 0° | 30° | 60° | 90° | 120° | 150° | 180° | 210° | 240° | 270° | 300° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 90° | 2.4 | 2.9 | 2.8 | 2.0 | 3.4 | 3.9 | 8.9 | 8.7 | 8.1 | 5.3 | 6.6 |
| 91° | 2.4 | 3.2 | 3.0 | 2.4 | 3.7 | 4.3 | 9.6 | 9.5 | 8.9 | 5.8 | 7.3 |
| 92° | 2.9 | 3.7 | 3.3 | 2.7 | 4.2 | 4.5 | 10.5 | 10.1 | 9.6 | 6.4 | 7.7 |
| 93° | 3.3 | 3.8 | 3.7 | 3.0 | 4.4 | 5.3 | 11.3 | 11.3 | 10.4 | 7.0 | 8.2 |
| 94° | 3.3 | 4.3 | 4.0 | 3.2 | 4.9 | 5.4 | 12.4 | 12.0 | 11.1 | 7.5 | 8.7 |
| 95° | 3.8 | 4.7 | 4.4 | 3.4 | 5.7 | 5.9 | 13.3 | 13.0 | 12.0 | 8.1 | 9.5 |
| 96° | 4.0 | 4.9 | 4.8 | 3.9 | 6.2 | 6.6 | 14.2 | 13.9 | 12.8 | 8.7 | 9.9 |
| 97° | 4.7 | 5.6 | 5.3 | 4.0 | 6.6 | 7.3 | 15.4 | 14.8 | 13.8 | 9.6 | 10.7 |
| 98° | 5.1 | 5.9 | 5.4 | 4.7 | 7.6 | 8.0 | 16.3 | 15.9 | 14.7 | 10.2 | 11.3 |
| 99° | 5.3 | 6.6 | 6.2 | 5.1 | 8.2 | 8.5 | 17.6 | 17.2 | 15.8 | 10.7 | 11.9 |
| 100° | 5.9 | 7.1 | 6.6 | 5.6 | 8.9 | 9.2 | 18.7 | 18.2 | 16.4 | 11.6 | 12.6 |
| 101° | 6.7 | 7.5 | 7.1 | 6.2 | 9.4 | 10.0 | 19.7 | 19.2 | 17.6 | 12.1 | 13.2 |
| 102° | 7.2 | 8.1 | 7.6 | 6.6 | 10.4 | 10.9 | 21.0 | 20.6 | 18.6 | 13.0 | 14.0 |
| 103° | 7.7 | 8.9 | 8.1 | 7.3 | 10.9 | 11.5 | 22.4 | 21.5 | 19.7 | 13.8 | 14.7 |
| 104° | 8.3 | 9.6 | 8.6 | 7.7 | 11.5 | 12.4 | 23.1 | 22.9 | 20.7 | 14.9 | 15.7 |
| 105° | 9.1 | 9.9 | 9.2 | 8.3 | 12.4 | 13.3 | 24.5 | 24.2 | 21.5 | 15.4 | 16.4 |
| 106° | 9.7 | 10.7 | 9.9 | 9.1 | 13.3 | 14.2 | 25.7 | 25.4 | 22.6 | 16.4 | 17.2 |
| 107° | 10.5 | 11.4 | 10.6 | 9.7 | 13.9 | 15.2 | 27.2 | 26.7 | 23.8 | 17.3 | 18.1 |
| 108° | 11.1 | 12.1 | 11.1 | 10.5 | 14.8 | 16.2 | 28.5 | 28.0 | 24.5 | 18.3 | 18.7 |
| 109° | 12.0 | 12.9 | 11.9 | 11.1 | 15.9 | 17.3 | 29.7 | 29.2 | 25.9 | 19.0 | 19.5 |
| 110° | 12.6 | 13.7 | 12.4 | 11.9 | 16.7 | 18.3 | 30.9 | 30.4 | 26.8 | 20.0 | 20.4 |
| 111° | 13.7 | 14.3 | 12.9 | 12.5 | 17.6 | 19.4 | 32.6 | 32.0 | 27.7 | 20.9 | 21.3 |
| 112° | 14.3 | 15.1 | 13.7 | 13.2 | 18.3 | 20.5 | 33.9 | 33.1 | 28.6 | 21.8 | 22.3 |
| 113° | 15.2 | 16.1 | 14.3 | 14.0 | 19.1 | 21.9 | 34.9 | 34.3 | 29.6 | 22.9 | 22.5 |
| 114° | 16.1 | 16.8 | 14.9 | 14.9 | 19.9 | 22.8 | 36.3 | 35.5 | 30.7 | 23.5 | 23.5 |
| 115° | 16.9 | 17.7 | 15.8 | 15.7 | 20.7 | 23.8 | 37.4 | 36.4 | 31.4 | 24.5 | 24.4 |
| 116° | 17.8 | 18.5 | 16.4 | 16.6 | 21.8 | 25.4 | 38.8 | 37.8 | 32.3 | 25.4 | 24.9 |
| 117° | 19.0 | 19.5 | 16.9 | 17.1 | 22.4 | 26.1 | 39.8 | 38.8 | 33.4 | 26.3 | 25.8 |
| 118° | 19.9 | 20.1 | 17.8 | 18.0 | 23.3 | 27.2 | 41.1 | 39.7 | 33.6 | 27.3 | 26.6 |
| 119° | 20.6 | 21.1 | 18.6 | 18.7 | 24.0 | 28.3 | 42.3 | 40.9 | 34.7 | 28.5 | 27.5 |
| 120° | 21.8 | 22.1 | 19.4 | 19.5 | 25.0 | 29.3 | 43.3 | 41.9 | 35.5 | 29.1 | 28.1 |
| 121° | 22.5 | 22.8 | 19.9 | 20.5 | 25.8 | 30.7 | 44.3 | 42.8 | 36.2 | 30.0 | 29.0 |
| 122° | 23.7 | 23.8 | 20.7 | 21.3 | 26.6 | 31.4 | 45.2 | 43.8 | 37.1 | 30.7 | 29.6 |
| 123° | 24.5 | 24.3 | 21.8 | 21.9 | 27.5 | 32.5 | 46.0 | 44.3 | 38.1 | 31.6 | 30.5 |
| 124° | 25.4 | 25.2 | 22.1 | 22.9 | 28.3 | 33.5 | 47.1 | 45.4 | 38.8 | 32.4 | 31.2 |
| 125° | 26.3 | 25.9 | 23.0 | 23.7 | 29.2 | 34.2 | 47.9 | 45.9 | 39.5 | 33.4 | 32.0 |
| 126° | 27.2 | 26.9 | 23.7 | 24.5 | 30.1 | 35.3 | 48.7 | 46.6 | 39.8 | 34.0 | 32.8 |
| 127° | 28.2 | 27.6 | 24.5 | 25.2 | 30.7 | 36.2 | 49.2 | 47.1 | 40.7 | 34.4 | 33.4 |
| 128° | 29.0 | 28.2 | 25.3 | 26.1 | 32.0 | 37.1 | 49.8 | 47.9 | 41.4 | 35.2 | 33.8 |
| 129° | 30.1 | 29.2 | 25.9 | 26.9 | 32.8 | 38.1 | 50.5 | 48.6 | 42.3 | 36.2 | 34.7 |
| 130° | 30.7 | 29.9 | 26.6 | 27.5 | 33.6 | 39.0 | 50.9 | 49.1 | 42.8 | 36.7 | 35.4 |
| 131° | 31.4 | 30.6 | 27.3 | 28.3 | 34.4 | 39.3 | 51.6 | 49.6 | 43.5 | 37.3 | 36.2 |
| 132° | 32.3 | 31.1 | 28.1 | 29.3 | 35.2 | 40.5 | 52.1 | 50.1 | 44.0 | 37.8 | 36.4 |
| 133° | 33.0 | 32.1 | 28.7 | 29.9 | 36.1 | 41.1 | 52.5 | 50.5 | 44.8 | 38.7 | 37.3 |
| 134° | 33.6 | 32.5 | 29.5 | 30.6 | 37.1 | 42.0 | 53.0 | 51.0 | 45.2 | 39.1 | 38.0 |

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

Scaled Data Report

REPORT NUMBER: P1449828
CATALOG NUMBER: TWC100_T3_100W_4000K

**CANDELA DISTRIBUTION (continued):**

| | 0° | 30° | 60° | 90° | 120° | 150° | 180° | 210° | 240° | 270° | 300° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 135° | 34.2 | 33.0 | 30.1 | 31.1 | 37.8 | 42.5 | 53.5 | 51.5 | 45.8 | 40.0 | 38.3 |
| 136° | 34.9 | 33.6 | 30.7 | 32.0 | 38.7 | 43.5 | 53.8 | 51.9 | 46.2 | 40.6 | 39.1 |
| 137° | 35.7 | 34.4 | 31.6 | 32.8 | 39.5 | 44.3 | 54.1 | 52.1 | 46.9 | 41.0 | 39.8 |
| 138° | 36.3 | 35.0 | 32.1 | 33.5 | 40.2 | 44.9 | 54.4 | 52.5 | 47.2 | 41.5 | 40.1 |
| 139° | 36.8 | 36.1 | 33.0 | 34.2 | 41.0 | 45.7 | 54.5 | 52.6 | 47.8 | 42.0 | 40.9 |
| 140° | 37.6 | 36.4 | 33.5 | 34.8 | 41.6 | 46.2 | 55.2 | 52.9 | 48.1 | 42.8 | 41.5 |
| 141° | 38.1 | 36.8 | 34.3 | 35.3 | 42.4 | 47.2 | 55.2 | 53.1 | 48.6 | 43.3 | 41.6 |
| 142° | 39.0 | 37.4 | 34.8 | 35.8 | 43.0 | 47.3 | 55.3 | 53.5 | 48.7 | 43.6 | 42.3 |
| 143° | 39.0 | 38.1 | 35.5 | 36.4 | 43.6 | 48.2 | 55.2 | 53.6 | 49.1 | 44.4 | 42.9 |
| 144° | 39.8 | 38.7 | 36.2 | 37.3 | 44.2 | 48.8 | 55.2 | 53.8 | 49.6 | 44.7 | 43.3 |
| 145° | 40.4 | 39.1 | 37.1 | 38.0 | 44.4 | 49.3 | 55.3 | 53.9 | 49.8 | 45.2 | 43.8 |
| 146° | 41.0 | 39.6 | 37.4 | 38.5 | 45.2 | 50.0 | 55.3 | 54.0 | 50.1 | 45.7 | 44.3 |
| 147° | 41.2 | 40.2 | 38.2 | 39.1 | 45.5 | 50.4 | 55.3 | 54.1 | 50.5 | 46.2 | 44.8 |
| 148° | 41.9 | 40.7 | 38.8 | 39.7 | 45.9 | 51.0 | 55.2 | 54.3 | 50.5 | 46.7 | 45.3 |
| 149° | 42.6 | 41.4 | 39.0 | 40.2 | 46.4 | 51.1 | 55.4 | 54.4 | 50.9 | 47.1 | 45.9 |
| 150° | 43.0 | 41.9 | 39.7 | 40.9 | 46.9 | 51.5 | 55.5 | 54.4 | 51.0 | 47.7 | 46.0 |
| 151° | 43.6 | 42.4 | 40.5 | 41.5 | 47.2 | 51.9 | 55.4 | 54.8 | 51.4 | 47.8 | 46.4 |
| 152° | 44.2 | 42.9 | 41.1 | 42.1 | 47.6 | 52.2 | 55.4 | 54.7 | 51.6 | 48.3 | 47.1 |
| 153° | 44.4 | 43.4 | 41.7 | 42.4 | 47.8 | 52.5 | 55.4 | 54.7 | 51.7 | 48.8 | 47.4 |
| 154° | 45.2 | 43.8 | 42.3 | 43.0 | 48.3 | 52.9 | 55.3 | 54.4 | 52.1 | 49.1 | 47.6 |
| 155° | 45.5 | 44.4 | 42.6 | 43.5 | 48.7 | 52.9 | 55.0 | 54.5 | 52.1 | 49.3 | 48.2 |
| 156° | 45.8 | 44.4 | 43.3 | 44.3 | 48.8 | 52.9 | 54.8 | 54.4 | 52.4 | 49.7 | 48.6 |
| 157° | 45.9 | 44.7 | 43.5 | 44.4 | 49.3 | 53.3 | 54.7 | 54.4 | 52.2 | 50.0 | 48.8 |
| 158° | 46.4 | 45.2 | 43.9 | 45.0 | 49.3 | 53.4 | 54.4 | 54.5 | 52.5 | 50.2 | 49.1 |
| 159° | 46.7 | 45.7 | 44.5 | 45.3 | 50.0 | 53.5 | 54.4 | 54.3 | 52.5 | 50.5 | 49.5 |
| 160° | 46.8 | 45.9 | 45.0 | 46.0 | 50.2 | 53.5 | 54.1 | 54.3 | 52.5 | 50.7 | 49.3 |
| 161° | 47.2 | 46.2 | 45.5 | 46.6 | 50.6 | 53.9 | 54.0 | 54.1 | 52.6 | 51.0 | 49.8 |
| 162° | 47.6 | 46.8 | 45.9 | 47.3 | 51.0 | 53.9 | 53.9 | 54.0 | 52.6 | 51.2 | 50.4 |
| 163° | 47.7 | 47.1 | 46.3 | 47.6 | 51.1 | 54.1 | 53.5 | 54.0 | 52.8 | 51.6 | 50.5 |
| 164° | 48.1 | 47.1 | 46.7 | 47.8 | 51.4 | 54.3 | 53.5 | 53.8 | 52.9 | 51.6 | 50.5 |
| 165° | 48.1 | 47.3 | 47.1 | 48.2 | 51.6 | 54.1 | 53.3 | 53.8 | 52.9 | 51.6 | 50.9 |
| 166° | 48.6 | 47.9 | 47.4 | 48.6 | 51.9 | 54.3 | 53.3 | 53.8 | 52.9 | 52.0 | 51.2 |
| 167° | 48.7 | 48.2 | 47.8 | 49.1 | 52.0 | 54.5 | 53.0 | 53.6 | 52.9 | 52.1 | 51.4 |
| 168° | 49.1 | 48.6 | 48.3 | 49.6 | 52.2 | 54.4 | 53.0 | 53.5 | 53.1 | 52.5 | 51.7 |
| 169° | 49.5 | 48.7 | 48.8 | 49.8 | 52.2 | 54.1 | 53.1 | 53.4 | 53.1 | 52.5 | 51.7 |
| 170° | 49.7 | 49.1 | 49.2 | 50.2 | 52.5 | 54.5 | 53.1 | 53.3 | 53.4 | 52.8 | 52.1 |
| 171° | 50.0 | 49.3 | 49.6 | 50.7 | 52.9 | 54.7 | 53.0 | 53.3 | 53.4 | 53.0 | 52.1 |
| 172° | 50.6 | 49.7 | 50.0 | 51.0 | 52.9 | 54.3 | 53.1 | 53.3 | 53.0 | 53.0 | 52.2 |
| 173° | 50.5 | 50.1 | 50.5 | 51.4 | 53.1 | 54.3 | 53.3 | 53.1 | 53.0 | 53.3 | 52.8 |
| 174° | 50.9 | 50.5 | 50.5 | 51.7 | 53.4 | 54.1 | 53.5 | 53.1 | 53.0 | 53.3 | 53.0 |
| 175° | 51.5 | 50.7 | 51.1 | 52.1 | 53.4 | 54.5 | 53.5 | 53.1 | 53.0 | 53.4 | 53.0 |
| 176° | 51.9 | 51.0 | 51.4 | 52.4 | 53.4 | 54.1 | 53.3 | 52.9 | 53.0 | 53.4 | 53.3 |
| 177° | 52.0 | 51.6 | 51.6 | 52.5 | 53.4 | 54.3 | 53.1 | 52.9 | 53.0 | 53.3 | 53.4 |
| 178° | 52.6 | 51.6 | 52.0 | 52.8 | 53.5 | 54.1 | 53.3 | 52.6 | 52.8 | 53.4 | 53.5 |
| 179° | 52.4 | 52.0 | 52.1 | 53.1 | 53.6 | 54.0 | 53.0 | 52.6 | 52.6 | 53.3 | 53.8 |

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

Scaled Data Report

REPORT NUMBER: P1449828
CATALOG NUMBER: TWC100_T3_100W_4000K

**CANDELA DISTRIBUTION (continued):**

| | 0° | 30° | 60° | 90° | 120° | 150° | 180° | 210° | 240° | 270° | 300° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 180° | *53.1* | 53.1 | 53.1 | 53.1 | 53.1 | 53.1 | 53.1 | 53.1 | 53.1 | 53.1 | 53.1 |

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1449828
CATALOG NUMBER: TWC100_T3_100W_4000K

**CANDELA DISTRIBUTION (continued):**

| | 330° | 360° |
|---|---|---|
| 0° | 5023.7 | 5023.7 |
| 1° | 5044.5 | 5048.6 |
| 2° | 5064.9 | 5072.1 |
| 3° | 5084.8 | 5097.9 |
| 4° | 5103.5 | 5118.7 |
| 5° | 5117.7 | 5143.6 |
| 6° | 5135.7 | 5168.1 |
| 7° | 5152.1 | 5190.0 |
| 8° | 5179.3 | 5227.0 |
| 9° | 5197.5 | 5252.6 |
| 10° | 5213.8 | 5278.3 |
| 11° | 5232.0 | 5298.2 |
| 12° | 5240.5 | 5323.6 |
| 13° | 5255.9 | 5350.2 |
| 14° | 5273.0 | 5378.0 |
| 15° | 5299.2 | 5415.3 |
| 16° | 5316.7 | 5443.0 |
| 17° | 5333.2 | 5474.9 |
| 18° | 5350.7 | 5505.5 |
| 19° | 5364.6 | 5534.5 |
| 20° | 5380.9 | 5560.0 |
| 21° | 5393.4 | 5585.7 |
| 22° | 5403.6 | 5607.7 |
| 23° | 5414.7 | 5633.9 |
| 24° | 5425.7 | 5658.9 |
| 25° | 5437.0 | 5695.2 |
| 26° | 5458.0 | 5721.8 |
| 27° | 5468.8 | 5745.6 |
| 28° | 5479.3 | 5772.2 |
| 29° | 5486.8 | 5792.3 |
| 30° | 5488.4 | 5817.0 |
| 31° | 5498.9 | 5840.9 |
| 32° | 5508.0 | 5869.5 |
| 33° | 5528.5 | 5886.8 |
| 34° | 5537.8 | 5902.6 |
| 35° | 5545.4 | 5913.9 |
| 36° | 5550.8 | 5921.0 |
| 37° | *5549.7* | *5925.0* |
| 38° | 5550.8 | 5922.2 |
| 39° | 5545.4 | 5913.1 |
| 40° | 5534.2 | 5897.8 |
| 41° | 5511.5 | 5866.6 |
| 42° | 5492.7 | 5838.0 |
| 43° | 5463.4 | 5805.6 |
| 44° | 5432.8 | 5771.4 |

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Peachtree City, GA 30269

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REPORT NUMBER: P1449828
CATALOG NUMBER: TWC100_T3_100W_4000K

**CANDELA DISTRIBUTION (continued):**

| | 330° | 360° |
|---|---|---|
| 45° | 5399.1 | 5721.7 |
| 46° | 5357.8 | 5621.3 |
| 47° | 5306.8 | 5536.3 |
| 48° | 5218.2 | 5448.2 |
| 49° | 5099.4 | 5351.9 |
| 50° | 5018.2 | 5241.9 |
| 51° | 4924.5 | 5107.2 |
| 52° | 4808.4 | 4971.0 |
| 53° | 4669.6 | 4828.2 |
| 54° | 4525.4 | 4682.1 |
| 55° | 4369.4 | 4520.7 |
| 56° | 4204.0 | 4376.5 |
| 57° | 4019.7 | 4226.0 |
| 58° | 3849.7 | 4066.3 |
| 59° | 3679.7 | 3872.3 |
| 60° | 3486.9 | 3686.1 |
| 61° | 3315.1 | 3482.6 |
| 62° | 3145.2 | 3256.5 |
| 63° | 2974.1 | 3025.6 |
| 64° | 2780.1 | 2808.5 |
| 65° | 2563.0 | 2644.0 |
| 66° | 2343.5 | 2479.8 |
| 67° | 2174.4 | 2231.7 |
| 68° | 1956.4 | 1952.7 |
| 69° | 1673.5 | 1809.3 |
| 70° | 1509.8 | 1723.5 |
| 71° | 1431.5 | 1643.0 |
| 72° | 1360.7 | 1557.9 |
| 73° | 1293.4 | 1465.8 |
| 74° | 1225.1 | 1356.9 |
| 75° | 1152.5 | 1249.0 |
| 76° | 1058.2 | 1141.5 |
| 77° | 977.5 | 1028.4 |
| 78° | 909.2 | 924.2 |
| 79° | 844.4 | 817.4 |
| 80° | 769.3 | 712.6 |
| 81° | 692.4 | 598.0 |
| 82° | 584.3 | 494.4 |
| 83° | 486.2 | 391.2 |
| 84° | 413.7 | 299.8 |
| 85° | 316.8 | 204.4 |
| 86° | 240.0 | 145.0 |
| 87° | 136.0 | 86.3 |
| 88° | 10.2 | 30.4 |
| 89° | 6.7 | 3.7 |

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

REPORT NUMBER: P1449828
CATALOG NUMBER: TWC100_T3_100W_4000K

**CANDELA DISTRIBUTION (continued):**

| | 330° | 360° |
|---|---|---|
| 90° | 7.3 | 2.4 |
| 91° | 7.6 | 2.4 |
| 92° | 8.2 | 2.9 |
| 93° | 8.9 | 3.3 |
| 94° | 9.6 | 3.3 |
| 95° | 10.4 | 3.8 |
| 96° | 11.0 | 4.0 |
| 97° | 11.9 | 4.7 |
| 98° | 12.5 | 5.1 |
| 99° | 13.4 | 5.3 |
| 100° | 14.3 | 5.9 |
| 101° | 15.2 | 6.7 |
| 102° | 16.1 | 7.2 |
| 103° | 16.8 | 7.7 |
| 104° | 17.6 | 8.3 |
| 105° | 18.6 | 9.1 |
| 106° | 19.6 | 9.7 |
| 107° | 20.5 | 10.5 |
| 108° | 21.3 | 11.1 |
| 109° | 21.9 | 12.0 |
| 110° | 23.0 | 12.6 |
| 111° | 23.8 | 13.7 |
| 112° | 25.0 | 14.3 |
| 113° | 25.8 | 15.2 |
| 114° | 26.7 | 16.1 |
| 115° | 27.6 | 16.9 |
| 116° | 28.5 | 17.8 |
| 117° | 29.6 | 19.0 |
| 118° | 30.4 | 19.9 |
| 119° | 31.1 | 20.6 |
| 120° | 32.0 | 21.8 |
| 121° | 32.8 | 22.5 |
| 122° | 33.8 | 23.7 |
| 123° | 34.0 | 24.5 |
| 124° | 35.0 | 25.4 |
| 125° | 35.7 | 26.3 |
| 126° | 36.4 | 27.2 |
| 127° | 36.8 | 28.2 |
| 128° | 37.4 | 29.0 |
| 129° | 37.8 | 30.1 |
| 130° | 38.6 | 30.7 |
| 131° | 39.1 | 31.4 |
| 132° | 39.5 | 32.3 |
| 133° | 40.0 | 33.0 |
| 134° | 40.6 | 33.6 |

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Scaled Data Report

REPORT NUMBER: P1449828
CATALOG NUMBER: TWC100_T3_100W_4000K

**CANDELA DISTRIBUTION (continued):**

| | 330° | 360° |
|---|---|---|
| 135° | 41.4 | 34.2 |
| 136° | 41.6 | 34.9 |
| 137° | 42.0 | 35.7 |
| 138° | 42.4 | 36.3 |
| 139° | 42.9 | 36.8 |
| 140° | 43.3 | 37.6 |
| 141° | 43.6 | 38.1 |
| 142° | 44.2 | 39.0 |
| 143° | 44.7 | 39.0 |
| 144° | 44.8 | 39.8 |
| 145° | 45.0 | 40.4 |
| 146° | 45.4 | 41.0 |
| 147° | 45.5 | 41.2 |
| 148° | 46.3 | 41.9 |
| 149° | 46.7 | 42.6 |
| 150° | 46.7 | 43.0 |
| 151° | 46.9 | 43.6 |
| 152° | 47.3 | 44.2 |
| 153° | 47.4 | 44.4 |
| 154° | 47.6 | 45.2 |
| 155° | 47.8 | 45.5 |
| 156° | 48.1 | 45.8 |
| 157° | 48.3 | 45.9 |
| 158° | 48.5 | 46.4 |
| 159° | 48.8 | 46.7 |
| 160° | 49.1 | 46.8 |
| 161° | 49.5 | 47.2 |
| 162° | 49.3 | 47.6 |
| 163° | 49.6 | 47.7 |
| 164° | 49.8 | 48.1 |
| 165° | 50.0 | 48.1 |
| 166° | 50.5 | 48.6 |
| 167° | 50.6 | 48.7 |
| 168° | 51.0 | 49.1 |
| 169° | 51.0 | 49.5 |
| 170° | 51.4 | 49.7 |
| 171° | 51.9 | 50.0 |
| 172° | 51.9 | 50.6 |
| 173° | 52.2 | 50.5 |
| 174° | 52.4 | 50.9 |
| 175° | 52.9 | 51.5 |
| 176° | 53.0 | 51.9 |
| 177° | 53.3 | 52.0 |
| 178° | 53.4 | 52.6 |
| 179° | 53.6 | 52.4 |

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Scaled Data Report

REPORT NUMBER: P1449828
CATALOG NUMBER: TWC100_T3_100W_4000K

**CANDELA DISTRIBUTION (continued):**

| | 330° | 360° |
|---|---|---|
| 180° | 53.1 | 53.1 |

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: SP1-2601-659-2

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

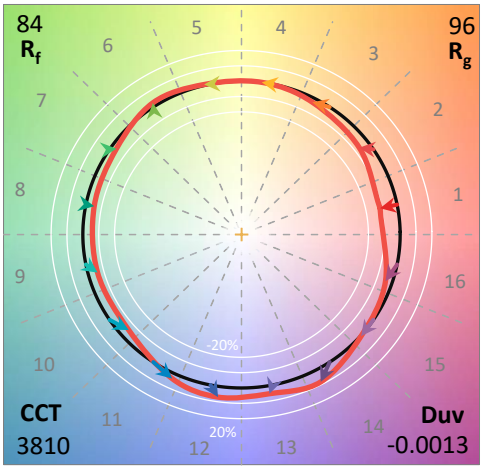
## Test Information

| | |
|---|---|
| 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 |

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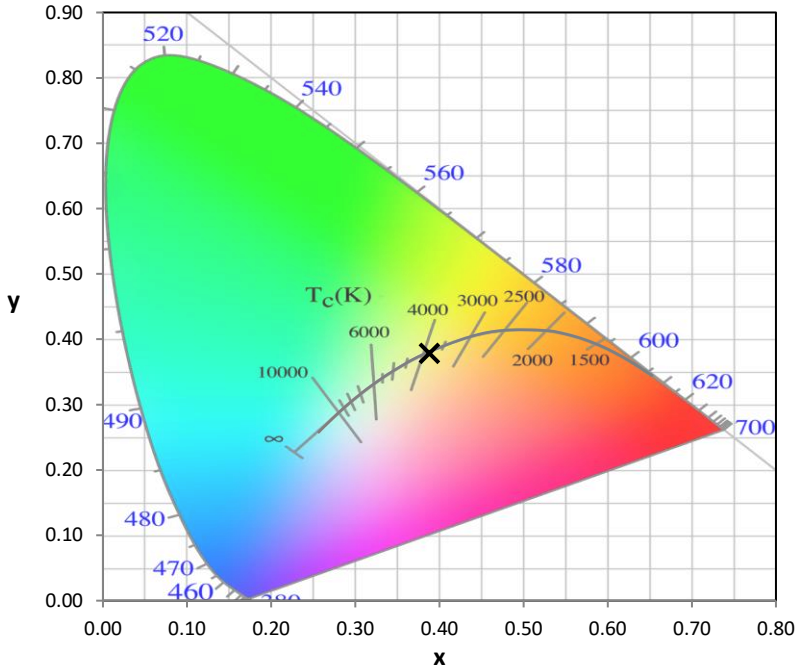
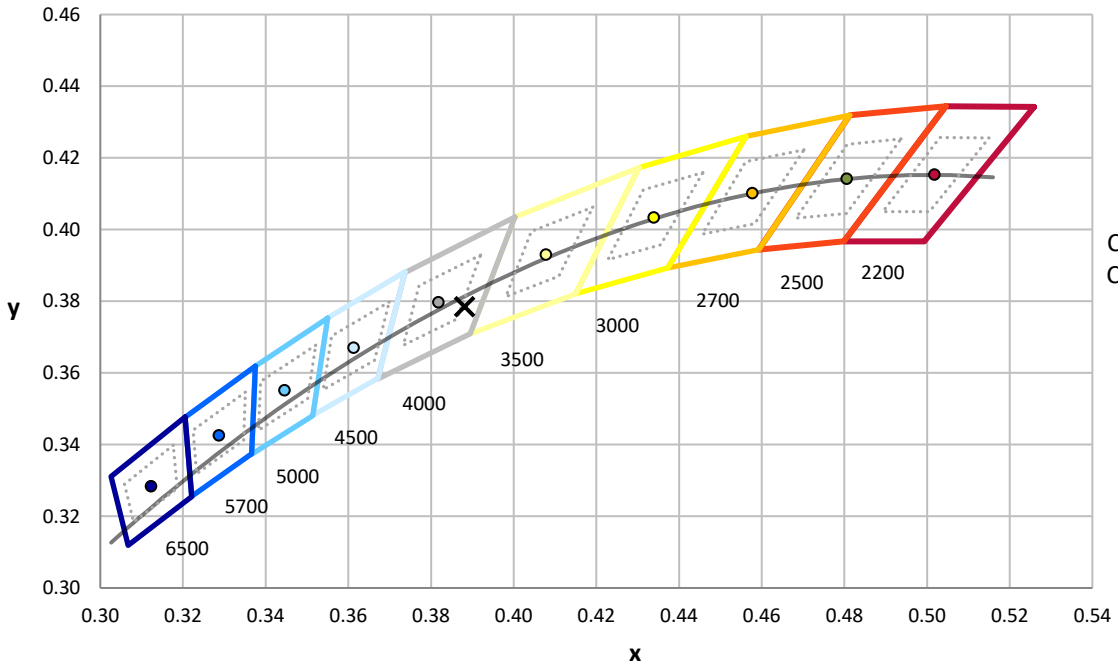
## CIE 1931 Chromaticity Diagram




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

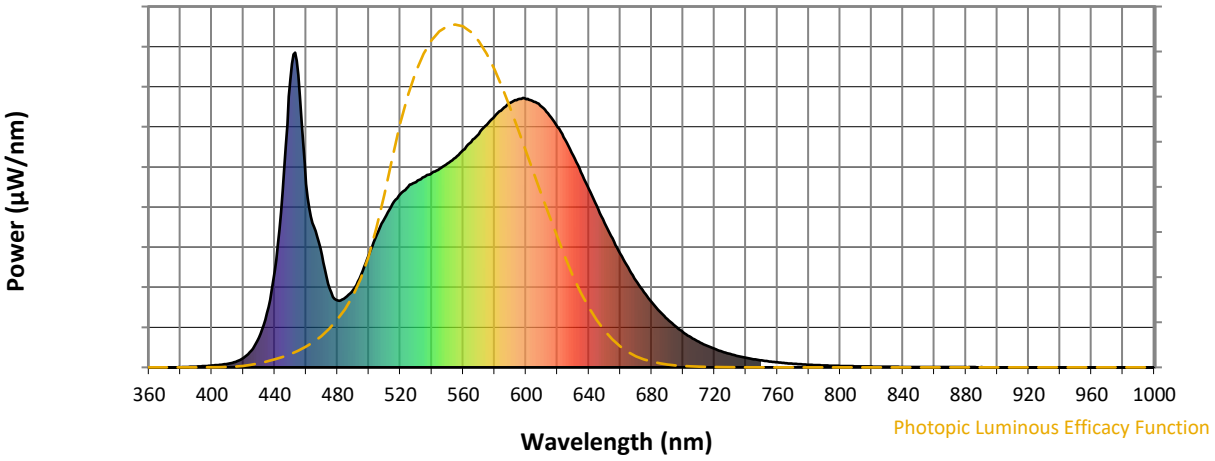



CCT = 3810K
CIE x = 0.3881
CIE y = 0.3785
Duv = -0.0013

Point lies inside the ANSI 4000K 7-step quadrangle

REPORT NUMBER: SP1-2601-659-2

## 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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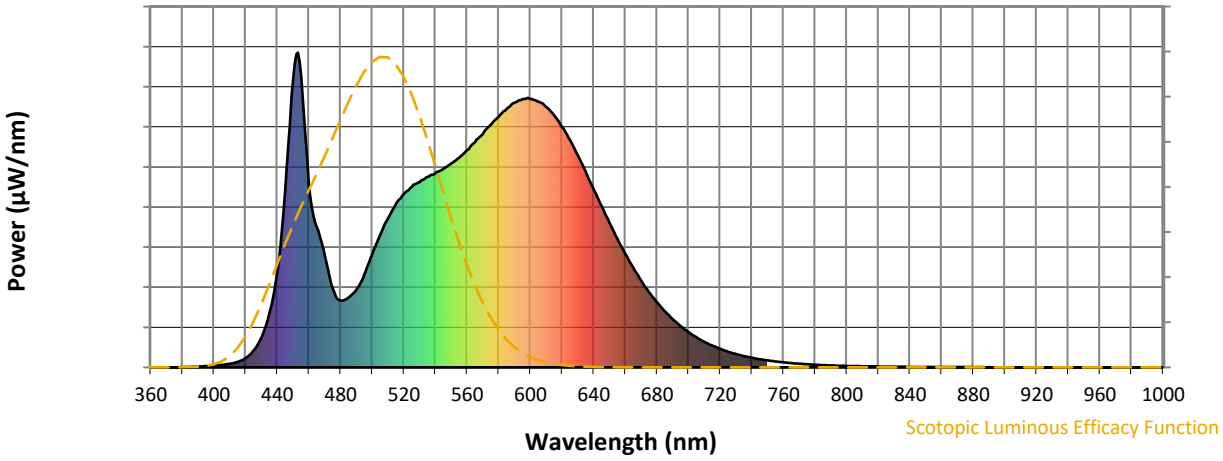
## Scotopic Flux vs. Wavelength

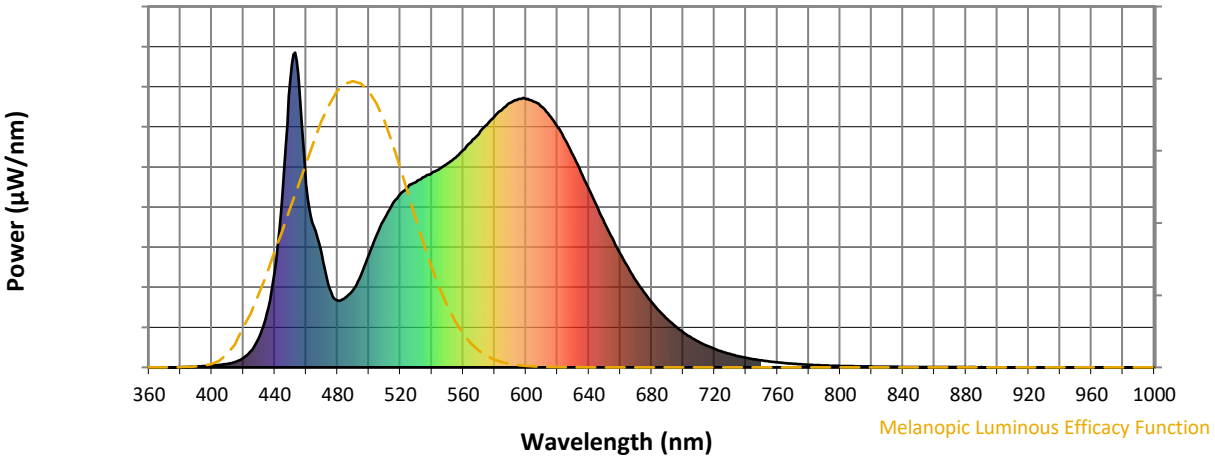



**Scotopic Lumens: NR** **S/P: 1.64**

| 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 | | | |

REPORT NUMBER: SP1-2601-659-2

## 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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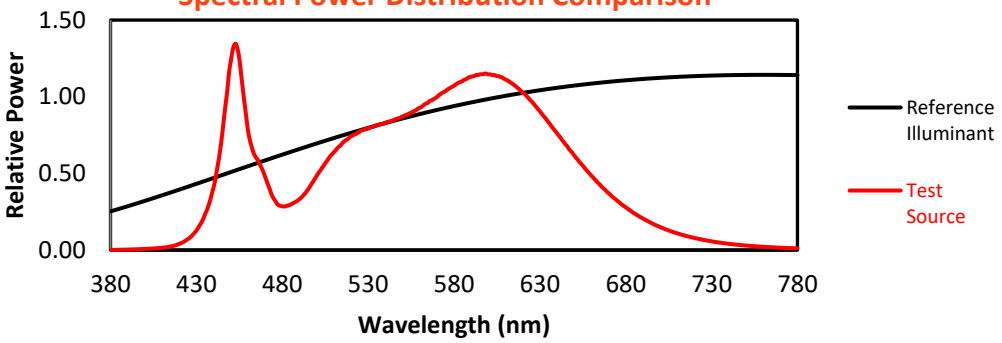
# TM-30-18

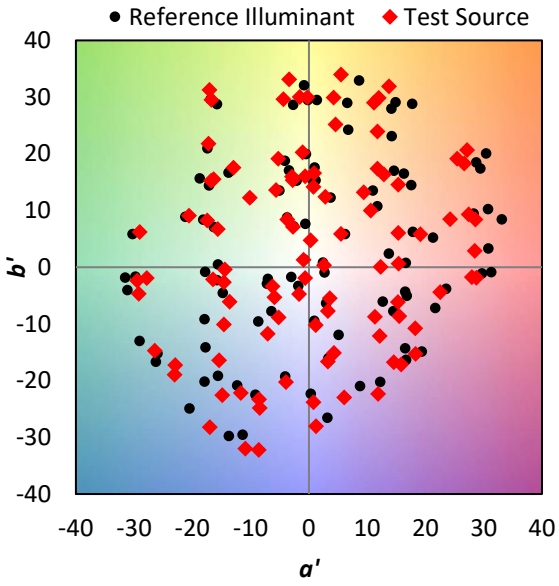
## Summary

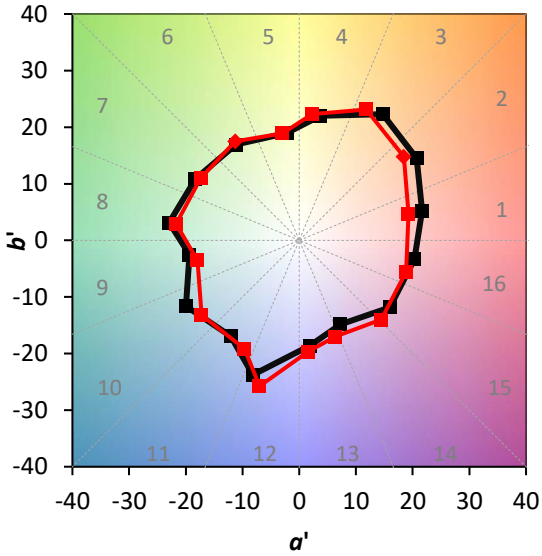
$R_f$ = 84.4
$R_g$ = 96.5
CIE $R_a$ = 84.5
$R_9$ = 15.9

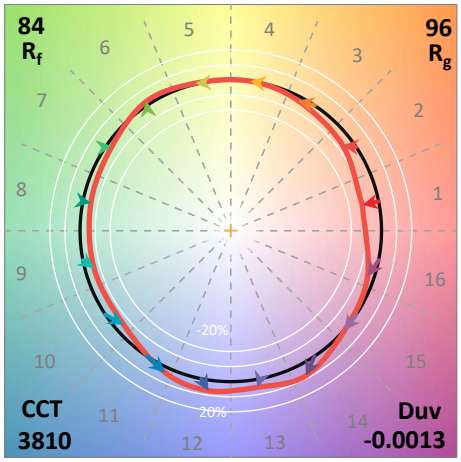
## Spectral Power Distribution Comparison

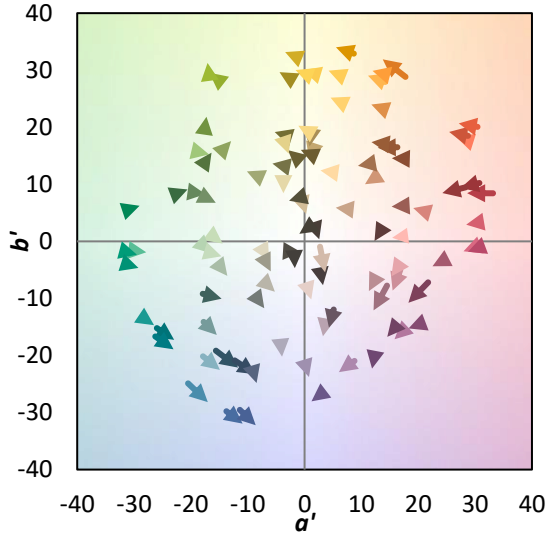



## Color Vector Graphics



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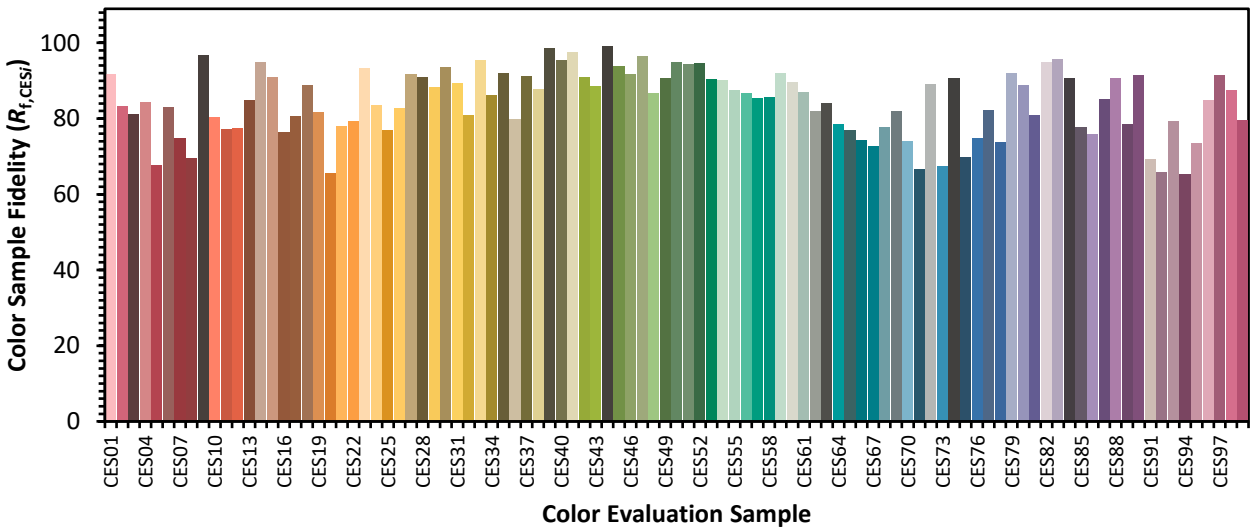
# TM-30-18

**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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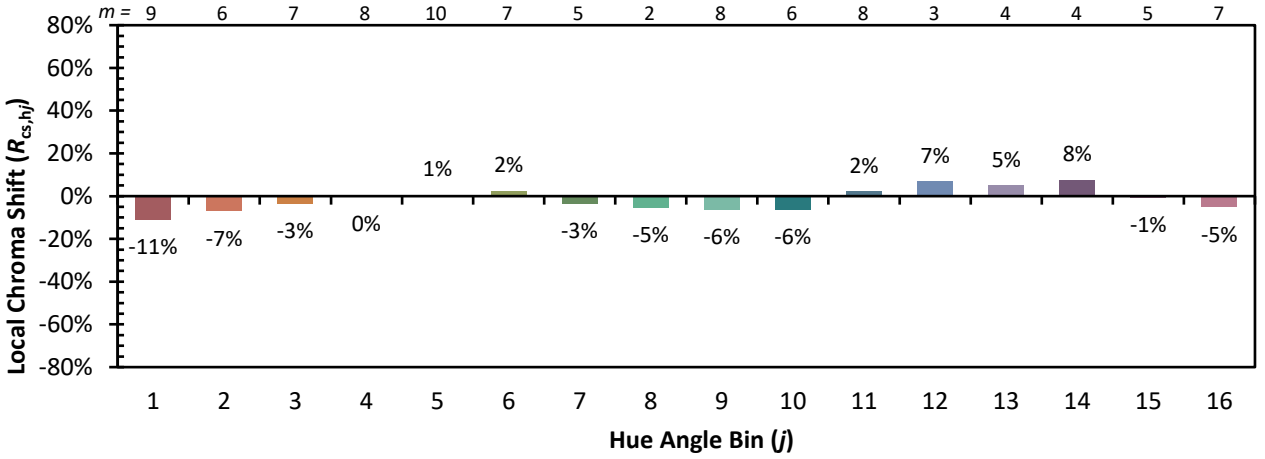
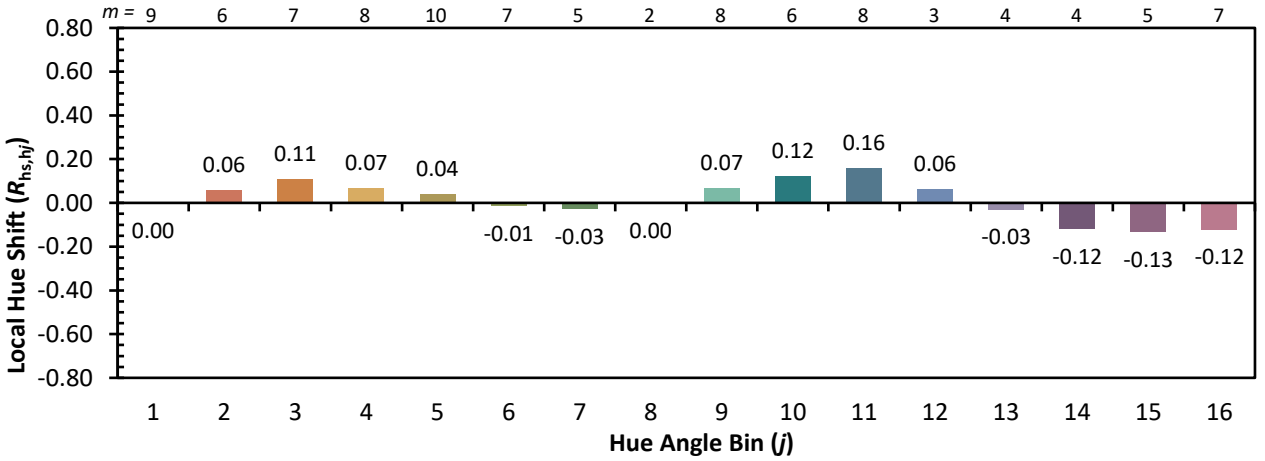
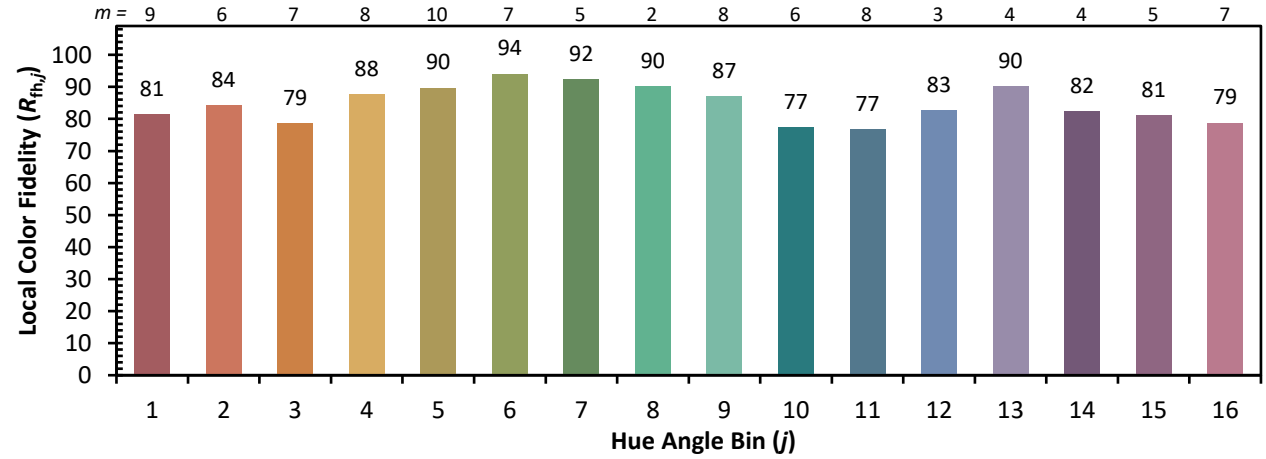
**TM-30-18**

## Color Rendition by Hue-Angle Bin



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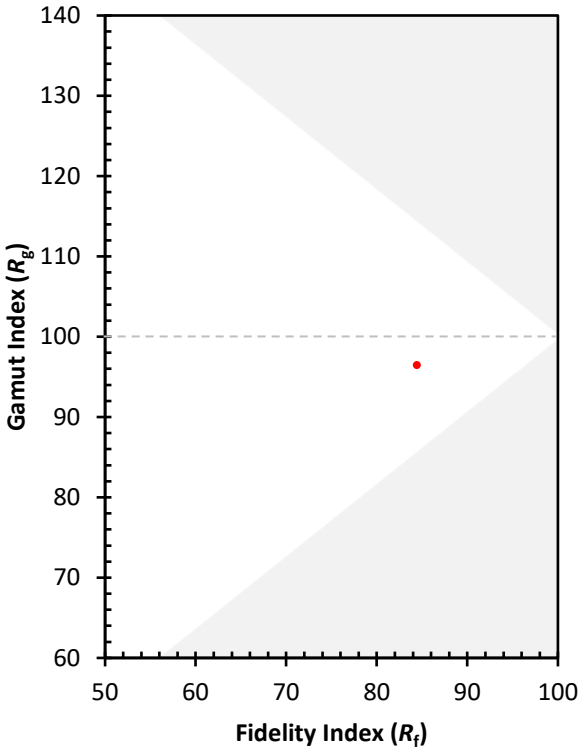
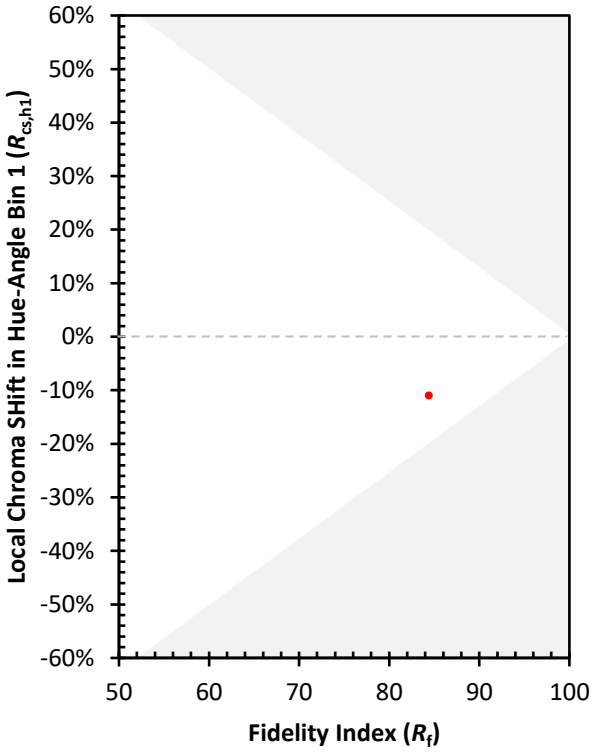
# TM-30-18

## Measure Comparisons




(END OF REPORT)