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

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Scaled data based on original data using

LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P1502087

Luminaire Tested: GSS-SB5C-940-U-T2LG-HSS

Issue Date: 07/20/2026

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Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-2024 |
| Report Number: | P1502087 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 7/20/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB5C-940-U-T2LG-HSS |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 5SQUARE 252W 90CRI 4000K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE W/ HOUSE SIDE SHIELD |
| Light Source: | (130) 4000K CCT, 90 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 21247.7 lumens |
| Efficiency: | N/A |
| Efficacy: | 84.3 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 1' x H: 0') |
| IES Classification: | Type II - Short |
| BUG Rating: | B2 - U0 - G2 |

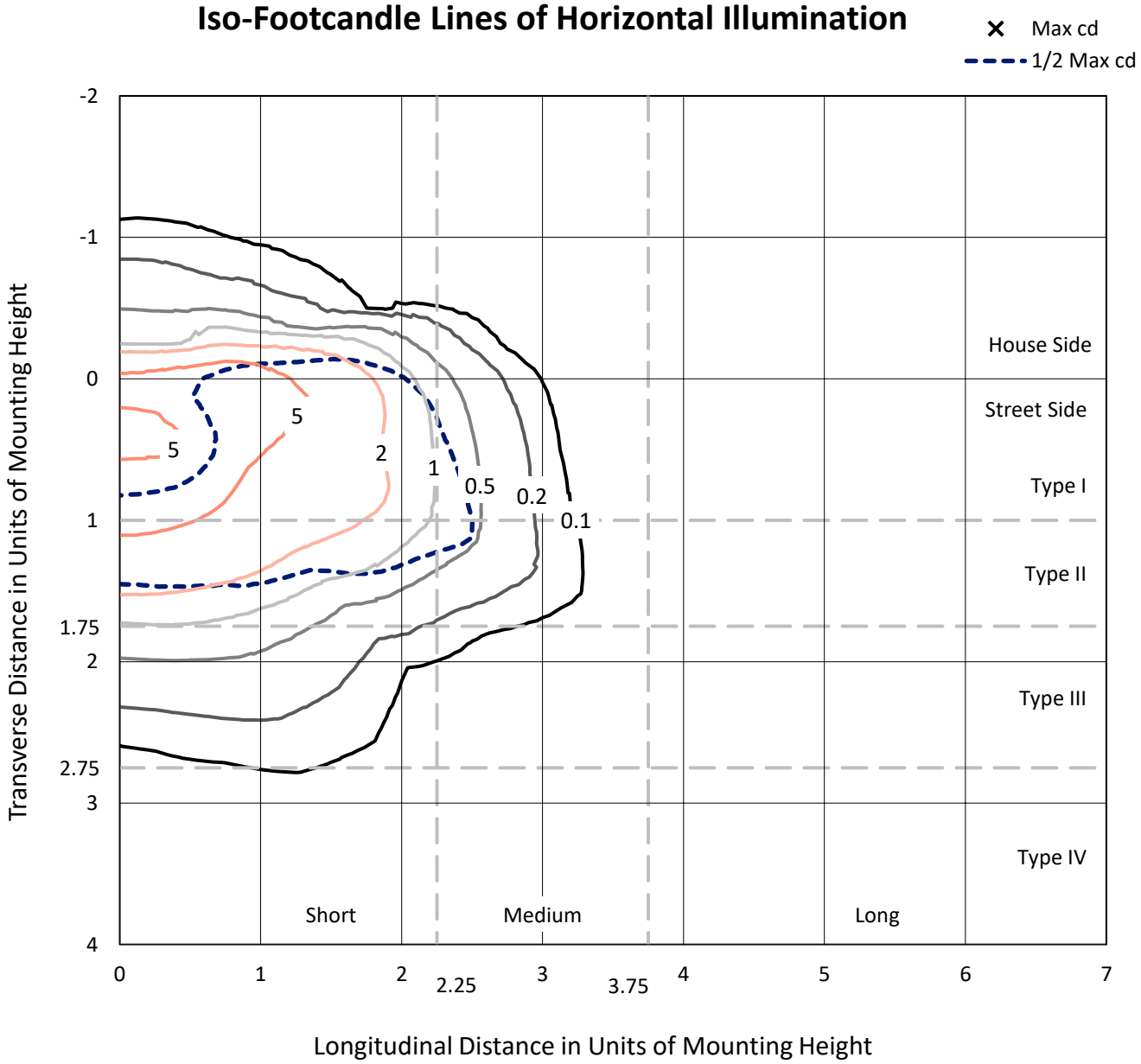
| | |
|---|---|
| Input Watts (W): | 252 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 7.9% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

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## Iso-Footcandle Lines of Horizontal Illumination



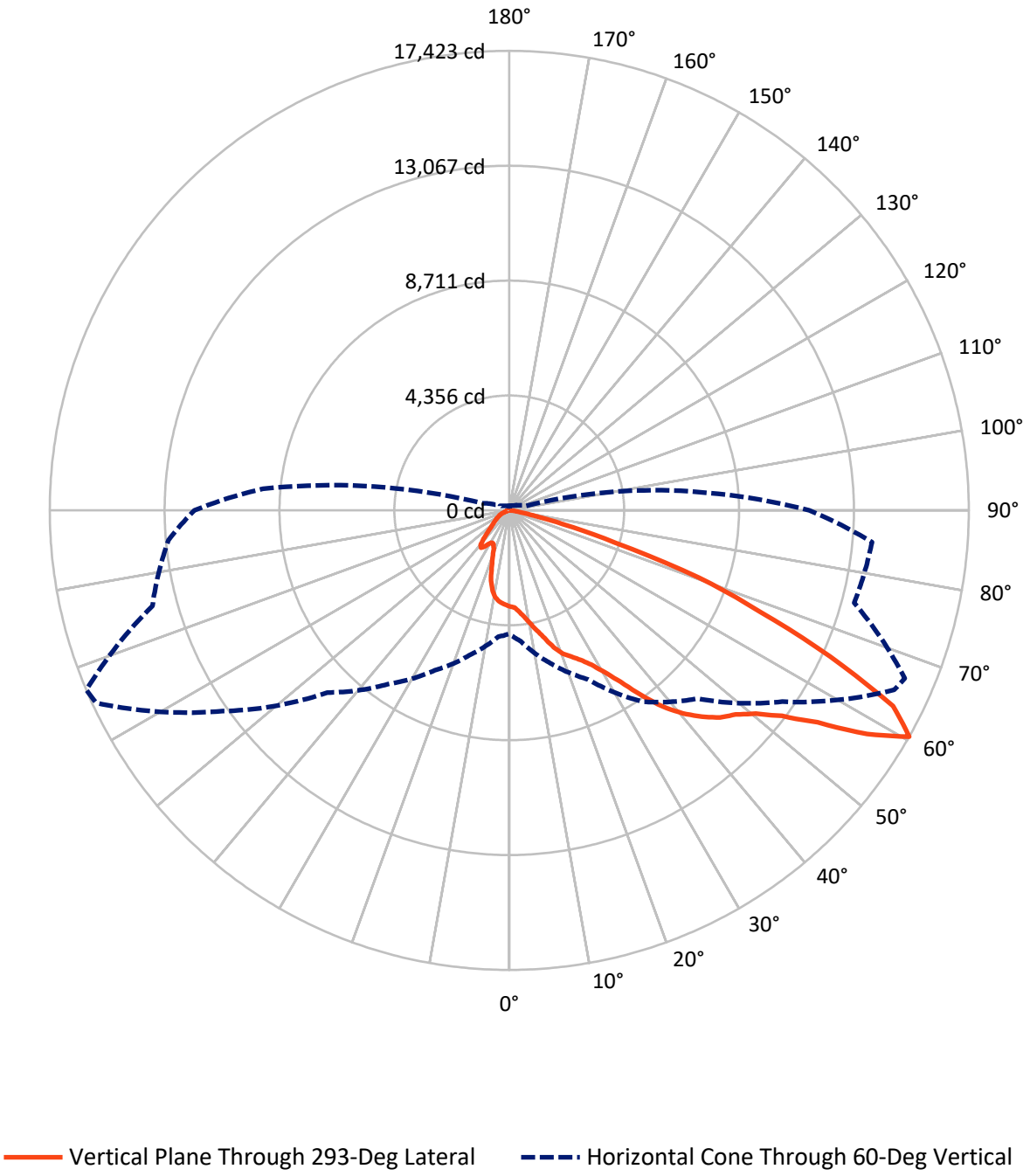

Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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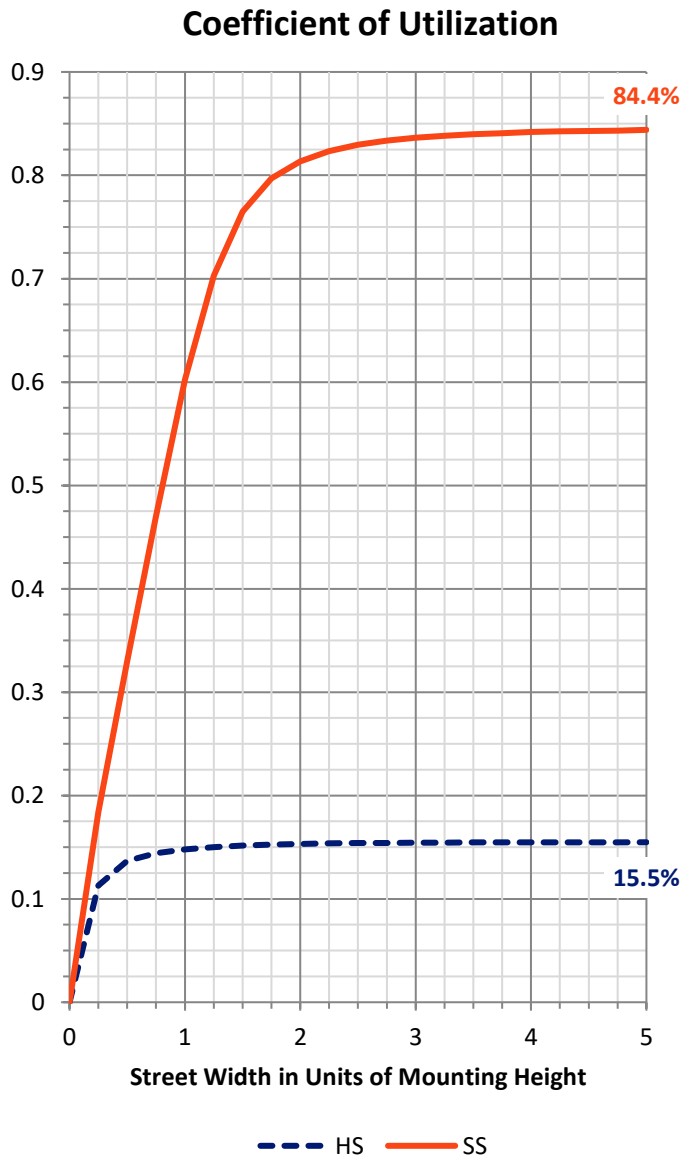
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 3315.2 | 0.0 | 3315.2 |
| | % Fixture | 15.6 | 0.0 | 15.6 |
| **Street Side** | Lumens | 17932.5 | 0.0 | 17932.5 |
| | % Fixture | 84.4 | 0.0 | 84.4 |
| **Total** | Lumens | 21247.7 | 0.0 | 21247.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 329.7 | 1.6 |
| 10°-20° | 830.5 | 3.9 |
| 20°-30° | 1550.3 | 7.3 |
| 30°-40° | 3074.5 | 14.5 |
| 40°-50° | 4901.8 | 23.1 |
| 50°-60° | 5856.4 | 27.6 |
| 60°-70° | 3839.3 | 18.1 |
| 70°-80° | 804.4 | 3.8 |
| 80°-90° | 60.9 | 0.3 |
| 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° | 21247.7 | 100.0 |
| 0°-180° | 21247.7 | 100.0 |



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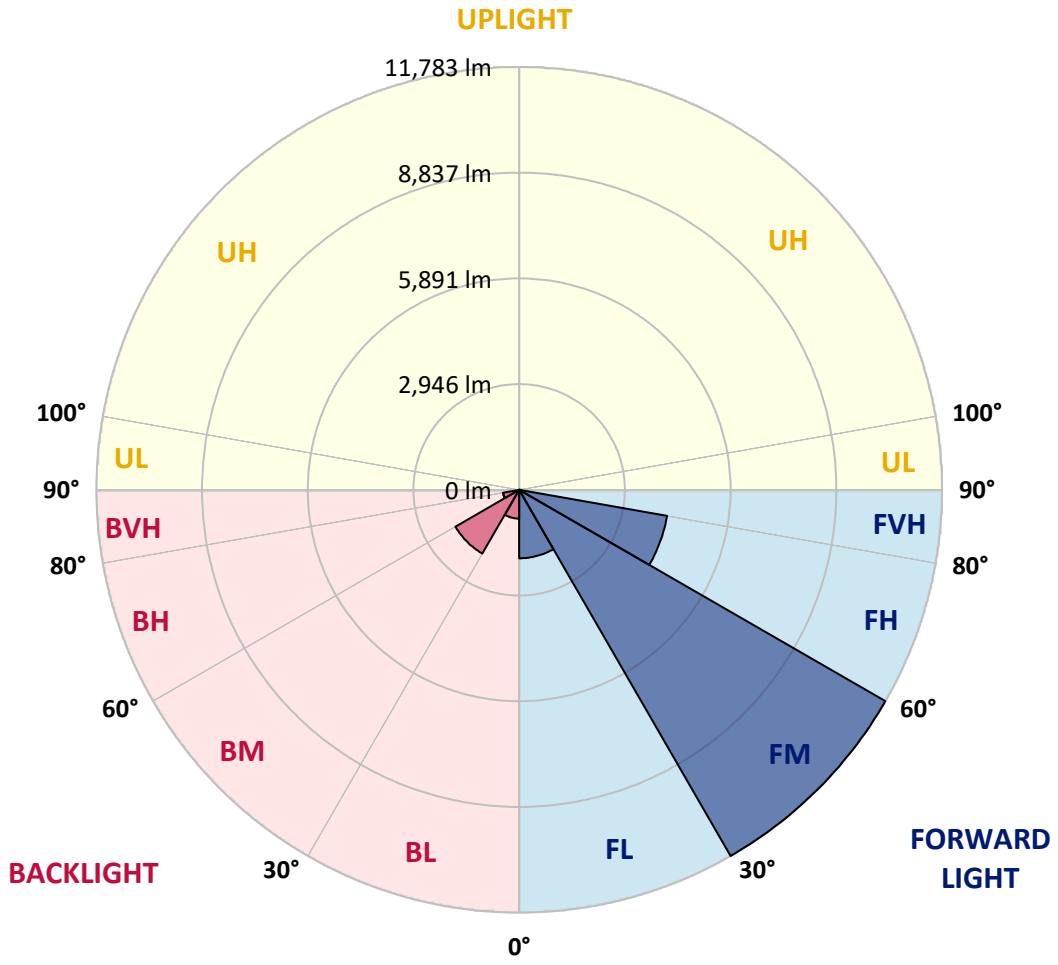
Scaled Data Report

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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°) | 1908.5 | 9.0 | | | |
| FM | (30°-60°) | 11782.6 | 55.5 | | | |
| FH | (60°-80°) | 4185.7 | 19.7 | | | G2/5000 |
| FVH | (80°-90°) | 55.8 | 0.3 | | | G1/100 |
| BL | (0°-30°) | 802.0 | 3.8 | B2/1000 | | |
| BM | (30°-60°) | 2050.1 | 9.6 | B2/2500 | | |
| BH | (60°-80°) | 458.0 | 2.2 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 5.1 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B2-U0-G2**
Type II Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 3641.6 | 3641.6 | 3641.6 | 3641.6 | 3641.6 | 3641.6 | 3641.6 | 3641.6 | 3641.6 | 3641.6 | 3641.6 |
| 2.5° | 3826.1 | 3814.2 | 3796.3 | 3802.3 | 3796.3 | 3772.5 | 3736.8 | 3707.1 | 3730.9 | 3695.2 | 3671.4 |
| 5° | 3939.2 | 3939.2 | 3927.3 | 3927.3 | 3933.2 | 3921.3 | 3897.5 | 3855.9 | 3861.8 | 3832.0 | 3754.7 |
| 7.5° | 3939.2 | 3921.3 | 3951.1 | 3980.8 | 4034.4 | 4064.1 | 4076.0 | 4052.2 | 4064.1 | 4004.6 | 3903.5 |
| 10° | 3707.1 | 3695.2 | 3772.5 | 3885.6 | 4040.3 | 4177.2 | 4266.4 | 4272.4 | 4290.2 | 4230.7 | 4111.7 |
| 12.5° | 3213.2 | 3189.4 | 3344.1 | 3558.3 | 3873.7 | 4189.1 | 4439.0 | 4534.2 | 4575.8 | 4552.0 | 4385.4 |
| 15° | 2755.0 | 2784.8 | 2891.9 | 3124.0 | 3546.4 | 4028.4 | 4534.2 | 4849.6 | 4909.1 | 4938.8 | 4742.5 |
| 17.5° | 2707.4 | 2713.4 | 2749.1 | 2862.1 | 3183.5 | 3766.6 | 4546.1 | 5176.8 | 5260.1 | 5391.1 | 5123.3 |
| 20° | 2838.3 | 2826.4 | 2862.1 | 2897.8 | 3052.5 | 3534.5 | 4433.0 | 5492.2 | 5652.9 | 5932.5 | 5641.0 |
| 22.5° | 3082.3 | 3082.3 | 3100.2 | 3124.0 | 3201.3 | 3516.7 | 4385.4 | 5783.8 | 6057.5 | 6628.7 | 6289.6 |
| 25° | 3492.9 | 3445.3 | 3457.2 | 3427.4 | 3492.9 | 3730.9 | 4492.5 | 6015.8 | 6390.7 | 7402.3 | 7063.1 |
| 27.5° | 4129.6 | 4147.4 | 4040.3 | 3879.7 | 3915.4 | 4117.7 | 4754.4 | 6277.7 | 6735.8 | 8205.6 | 7848.6 |
| 30° | 5010.2 | 4980.5 | 4915.0 | 4599.6 | 4456.8 | 4635.4 | 5236.3 | 6706.1 | 7200.0 | 9223.1 | 8895.8 |
| 32.5° | 5700.5 | 5783.8 | 5670.7 | 5450.6 | 5230.4 | 5283.9 | 5914.7 | 7396.3 | 7765.3 | 10157.3 | 9978.8 |
| 35° | 6533.5 | 6533.5 | 6557.3 | 6247.9 | 6099.1 | 6087.2 | 6765.6 | 8146.1 | 8515.0 | 11002.3 | 11127.2 |
| 37.5° | 7658.1 | 7580.8 | 7449.9 | 7104.8 | 6991.7 | 7140.5 | 7562.9 | 8919.6 | 9318.3 | 11686.6 | 12019.8 |
| 40° | 8604.3 | 8657.8 | 8640.0 | 8140.1 | 7920.0 | 8080.6 | 8455.5 | 9580.1 | 9889.5 | 12126.9 | 12739.8 |
| 42.5° | 9532.5 | 9562.3 | 9484.9 | 9246.9 | 8925.6 | 8937.5 | 9246.9 | 10080.0 | 10395.3 | 12549.4 | 13418.1 |
| 45° | 10228.7 | 10222.8 | 10169.2 | 10109.7 | 9919.3 | 9722.9 | 9776.5 | 10633.3 | 10907.1 | 12686.2 | 13787.0 |
| 47.5° | 10448.9 | 10496.5 | 10544.1 | 10710.7 | 10841.6 | 10532.2 | 10258.5 | 10930.9 | 11180.8 | 12662.4 | 13923.9 |
| 50° | 10246.6 | 10347.7 | 10579.8 | 10829.7 | 11276.0 | 11252.2 | 10663.1 | 11252.2 | 11496.1 | 12793.3 | 14084.6 |
| 52.5° | 9794.3 | 9895.5 | 10204.9 | 10657.1 | 11329.5 | 11662.8 | 11412.8 | 11793.7 | 12079.3 | 13126.6 | 14417.8 |
| 55° | 8741.1 | 8782.8 | 9419.5 | 10014.5 | 11061.8 | 11484.2 | 12216.1 | 12710.0 | 12948.0 | 13531.2 | 14858.1 |
| 57.5° | 7116.7 | 7217.8 | 7842.6 | 8812.5 | 10312.0 | 11014.2 | 12674.3 | 14275.0 | 14269.0 | 13918.0 | 14953.3 |
| 60° | *4683.0* | *4980.5* | *5998.0* | *7069.1* | *8860.1* | *10091.9* | *12644.6* | *16107.7* | *16292.2* | *13537.1* | *13804.9* |
| 62.5° | 3576.2 | 3701.1 | 4278.3 | 5170.9 | 6557.3 | 8366.2 | 12448.2 | 16655.1 | 16797.9 | 12513.7 | 12085.2 |
| 65° | 2689.6 | 2844.3 | 3397.7 | 4195.0 | 4629.4 | 5670.7 | 11162.9 | 14477.3 | 14673.7 | 11168.9 | 9395.7 |
| 67.5° | 1648.3 | 1773.2 | 2511.1 | 3445.3 | 3504.8 | 3522.6 | 7533.2 | 10966.6 | 11038.0 | 9008.9 | 6325.3 |
| 70° | 1100.8 | 1225.8 | 1737.5 | 2647.9 | 2790.7 | 2029.1 | 4135.5 | 8300.8 | 8294.8 | 6164.6 | 3844.0 |
| 72.5° | 636.7 | 696.2 | 1100.8 | 1951.7 | 2195.7 | 1291.2 | 2064.8 | 5278.0 | 5045.9 | 2897.8 | 1797.0 |
| 75° | 363.0 | 404.6 | 606.9 | 1255.5 | 1541.2 | 821.2 | 815.2 | 2826.4 | 2499.2 | 1493.5 | 981.8 |
| 77.5° | 220.2 | 238.0 | 333.2 | 821.2 | 928.3 | 553.4 | 452.2 | 1315.0 | 1267.4 | 874.7 | 517.7 |
| 80° | 107.1 | 125.0 | 202.3 | 482.0 | 595.0 | 297.5 | 273.7 | 517.7 | 553.4 | 482.0 | 273.7 |
| 82.5° | 35.7 | 47.6 | 113.1 | 184.5 | 386.8 | 119.0 | 113.1 | 285.6 | 303.5 | 285.6 | 130.9 |
| 85° | 17.9 | 23.8 | 53.6 | 59.5 | 148.8 | 59.5 | 41.7 | 125.0 | 154.7 | 95.2 | 53.6 |
| 87.5° | 0.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 11.9 | 11.9 | 11.9 | 11.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 3641.6 | 3641.6 | 3641.6 | 3641.6 | 3641.6 | 3641.6 | 3641.6 | 3641.6 | 3641.6 | 3641.6 | 3641.6 |
| 2.5° | 3653.5 | 3641.6 | 3617.8 | 3576.2 | 3570.2 | 3540.5 | 3492.9 | 3463.1 | 3439.3 | 3457.2 | 3463.1 |
| 5° | 3719.0 | 3689.2 | 3617.8 | 3504.8 | 3385.8 | 3266.8 | 3153.7 | 3022.8 | 2933.5 | 2921.6 | 2897.8 |
| 7.5° | 3838.0 | 3778.5 | 3623.8 | 3403.6 | 3100.2 | 2814.5 | 2481.3 | 2160.0 | 1999.3 | 1975.5 | 1922.0 |
| 10° | 4028.4 | 3927.3 | 3671.4 | 3225.1 | 2642.0 | 2046.9 | 1541.2 | 1196.0 | 999.7 | 964.0 | 975.9 |
| 12.5° | 4254.5 | 4111.7 | 3677.3 | 2921.6 | 2011.2 | 1267.4 | 874.7 | 743.8 | 702.1 | 684.3 | 684.3 |
| 15° | 4546.1 | 4337.8 | 3671.4 | 2528.9 | 1356.7 | 815.2 | 702.1 | 648.6 | 630.7 | 618.8 | 618.8 |
| 17.5° | 4915.0 | 4641.3 | 3629.7 | 1939.8 | 916.4 | 708.1 | 642.6 | 601.0 | 577.2 | 571.2 | 571.2 |
| 20° | 5349.4 | 4980.5 | 3534.5 | 1445.9 | 767.6 | 660.5 | 606.9 | 553.4 | 535.5 | 523.6 | 523.6 |
| 22.5° | 5902.8 | 5391.1 | 3350.1 | 1124.6 | 725.9 | 630.7 | 571.2 | 511.7 | 493.9 | 482.0 | 482.0 |
| 25° | 6545.4 | 5914.7 | 3106.1 | 1011.6 | 720.0 | 606.9 | 535.5 | 476.0 | 458.2 | 452.2 | 446.3 |
| 27.5° | 7307.1 | 6474.0 | 2880.0 | 1017.5 | 731.9 | 589.1 | 499.8 | 446.3 | 428.4 | 410.6 | 416.5 |
| 30° | 8205.6 | 7051.2 | 2695.5 | 1088.9 | 743.8 | 571.2 | 476.0 | 428.4 | 410.6 | 386.8 | 386.8 |
| 32.5° | 9092.2 | 7729.6 | 2677.7 | 1219.8 | 785.5 | 559.3 | 452.2 | 404.6 | 386.8 | 368.9 | 368.9 |
| 35° | 10002.6 | 8348.4 | 2778.8 | 1392.4 | 868.8 | 541.5 | 422.5 | 380.8 | 363.0 | 351.1 | 345.1 |
| 37.5° | 10871.4 | 8842.3 | 2874.0 | 1499.5 | 821.2 | 464.1 | 386.8 | 351.1 | 333.2 | 309.4 | 309.4 |
| 40° | 11448.5 | 9110.0 | 2891.9 | 1416.2 | 678.3 | 416.5 | 351.1 | 315.4 | 291.6 | 279.7 | 273.7 |
| 42.5° | 11871.0 | 9282.6 | 2689.6 | 1148.4 | 589.1 | 380.8 | 321.3 | 285.6 | 267.8 | 255.9 | 255.9 |
| 45° | 12043.6 | 9223.1 | 2344.5 | 874.7 | 541.5 | 351.1 | 291.6 | 261.8 | 249.9 | 238.0 | 238.0 |
| 47.5° | 12019.8 | 8949.4 | 1993.4 | 702.1 | 493.9 | 321.3 | 273.7 | 249.9 | 238.0 | 226.1 | 220.2 |
| 50° | 11978.1 | 8693.5 | 1636.4 | 624.8 | 440.3 | 303.5 | 255.9 | 238.0 | 220.2 | 208.3 | 202.3 |
| 52.5° | 12251.8 | 8610.2 | 1356.7 | 571.2 | 410.6 | 291.6 | 249.9 | 226.1 | 208.3 | 196.4 | 196.4 |
| 55° | 12525.6 | 8645.9 | 1065.1 | 535.5 | 380.8 | 285.6 | 244.0 | 220.2 | 202.3 | 184.5 | 184.5 |
| 57.5° | 12507.7 | 8491.2 | 809.3 | 499.8 | 357.0 | 279.7 | 238.0 | 214.2 | 184.5 | 172.6 | 172.6 |
| 60° | *11371.2* | *7574.8* | *630.7* | *458.2* | *327.3* | *261.8* | *220.2* | *202.3* | *172.6* | *154.7* | *154.7* |
| 62.5° | 9615.8 | 5956.3 | 517.7 | 404.6 | 291.6 | 238.0 | 202.3 | 184.5 | 154.7 | 125.0 | 125.0 |
| 65° | 7104.8 | 4296.2 | 416.5 | 351.1 | 267.8 | 208.3 | 184.5 | 160.7 | 125.0 | 101.2 | 95.2 |
| 67.5° | 4807.9 | 2642.0 | 333.2 | 291.6 | 238.0 | 178.5 | 154.7 | 136.9 | 113.1 | 83.3 | 77.4 |
| 70° | 2850.2 | 1404.3 | 244.0 | 202.3 | 178.5 | 130.9 | 130.9 | 119.0 | 95.2 | 71.4 | 65.5 |
| 72.5° | 1356.7 | 487.9 | 178.5 | 148.8 | 136.9 | 95.2 | 101.2 | 101.2 | 77.4 | 53.6 | 47.6 |
| 75° | 690.2 | 238.0 | 119.0 | 107.1 | 89.3 | 71.4 | 83.3 | 77.4 | 53.6 | 35.7 | 35.7 |
| 77.5° | 392.7 | 166.6 | 83.3 | 71.4 | 59.5 | 47.6 | 53.6 | 47.6 | 29.8 | 17.9 | 17.9 |
| 80° | 220.2 | 119.0 | 53.6 | 47.6 | 35.7 | 29.8 | 29.8 | 23.8 | 17.9 | 6.0 | 6.0 |
| 82.5° | 83.3 | 71.4 | 35.7 | 23.8 | 17.9 | 17.9 | 11.9 | 11.9 | 6.0 | 0.0 | 0.0 |
| 85° | 35.7 | 17.9 | 17.9 | 11.9 | 11.9 | 6.0 | 6.0 | 6.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 6.0 | 6.0 | 6.0 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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**CANDELA DISTRIBUTION (continued):**

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 3641.6 | 3641.6 | 3641.6 | 3641.6 | 3641.6 | 3641.6 | 3641.6 | 3641.6 | 3641.6 | 3641.6 | 3641.6 |
| 2.5° | 3415.5 | 3427.4 | 3439.3 | 3486.9 | 3498.8 | 3534.5 | 3564.3 | 3600.0 | 3605.9 | 3653.5 | 3653.5 |
| 5° | 2945.4 | 2939.5 | 3040.6 | 3189.4 | 3284.6 | 3415.5 | 3516.7 | 3623.8 | 3683.3 | 3760.6 | 3796.3 |
| 7.5° | 1951.7 | 2100.5 | 2326.6 | 2588.4 | 2927.6 | 3243.0 | 3481.0 | 3689.2 | 3832.0 | 3921.3 | 3957.0 |
| 10° | 969.9 | 1053.2 | 1291.2 | 1719.7 | 2296.8 | 2939.5 | 3445.3 | 3832.0 | 4064.1 | 4165.3 | 4230.7 |
| 12.5° | 684.3 | 702.1 | 743.8 | 975.9 | 1529.2 | 2439.7 | 3332.2 | 3986.8 | 4308.1 | 4498.5 | 4581.8 |
| 15° | 612.9 | 624.8 | 642.6 | 708.1 | 946.1 | 1820.8 | 3129.9 | 4159.3 | 4688.9 | 4909.1 | 5016.2 |
| 17.5° | 565.3 | 571.2 | 589.1 | 642.6 | 743.8 | 1237.7 | 2802.6 | 4343.8 | 5147.1 | 5414.9 | 5617.2 |
| 20° | 523.6 | 523.6 | 541.5 | 606.9 | 690.2 | 952.1 | 2332.6 | 4552.0 | 5730.2 | 6117.0 | 6319.3 |
| 22.5° | 476.0 | 487.9 | 499.8 | 571.2 | 672.4 | 868.8 | 1892.2 | 4712.7 | 6378.8 | 6848.9 | 7086.9 |
| 25° | 440.3 | 452.2 | 464.1 | 535.5 | 654.5 | 868.8 | 1636.4 | 4813.9 | 7104.8 | 7664.1 | 7991.4 |
| 27.5° | 410.6 | 422.5 | 440.3 | 511.7 | 636.7 | 904.5 | 1535.2 | 4843.6 | 7896.2 | 8622.1 | 9062.4 |
| 30° | 386.8 | 398.7 | 416.5 | 493.9 | 648.6 | 946.1 | 1570.9 | 4802.0 | 8699.5 | 9609.9 | 10133.5 |
| 32.5° | 363.0 | 374.9 | 392.7 | 476.0 | 648.6 | 999.7 | 1689.9 | 4718.7 | 9479.0 | 10597.6 | 11240.3 |
| 35° | 345.1 | 351.1 | 357.0 | 428.4 | 589.1 | 993.7 | 1838.7 | 4635.4 | 10264.4 | 11573.5 | 12323.3 |
| 37.5° | 309.4 | 315.4 | 327.3 | 368.9 | 470.1 | 904.5 | 1868.4 | 4534.2 | 10883.3 | 12394.7 | 13221.8 |
| 40° | 273.7 | 285.6 | 297.5 | 339.2 | 392.7 | 731.9 | 1737.5 | 4320.0 | 11210.5 | 13025.4 | 14031.0 |
| 42.5° | 249.9 | 255.9 | 267.8 | 309.4 | 363.0 | 583.1 | 1457.8 | 3945.1 | 11502.1 | 13453.8 | 14620.1 |
| 45° | 232.1 | 238.0 | 249.9 | 279.7 | 339.2 | 505.8 | 1148.4 | 3486.9 | 11525.9 | 13590.7 | 14905.7 |
| 47.5° | 214.2 | 220.2 | 226.1 | 255.9 | 327.3 | 452.2 | 880.7 | 3070.4 | 11520.0 | 13769.2 | 15149.7 |
| 50° | 202.3 | 208.3 | 220.2 | 244.0 | 309.4 | 404.6 | 725.9 | 2731.2 | 11769.9 | 14156.0 | 15643.6 |
| 52.5° | 196.4 | 196.4 | 214.2 | 238.0 | 291.6 | 368.9 | 606.9 | 2427.8 | 11900.8 | 14536.8 | 16000.6 |
| 55° | 184.5 | 190.4 | 202.3 | 226.1 | 273.7 | 351.1 | 517.7 | 2046.9 | 11960.3 | 14727.2 | 16066.0 |
| 57.5° | 172.6 | 178.5 | 196.4 | 214.2 | 261.8 | 333.2 | 446.3 | 1529.2 | 11109.4 | 13733.5 | 14971.2 |
| 60° | *154.7* | *166.6* | *190.4* | *208.3* | *244.0* | *303.5* | *392.7* | *1035.4* | *9371.9* | *11936.5* | *12971.8* |
| 62.5° | 125.0 | 148.8 | 172.6 | 184.5 | 220.2 | 255.9 | 333.2 | 690.2 | 7485.6 | 9877.6 | 11055.8 |
| 65° | 95.2 | 125.0 | 142.8 | 160.7 | 184.5 | 214.2 | 279.7 | 470.1 | 4992.4 | 6646.6 | 7973.5 |
| 67.5° | 83.3 | 107.1 | 119.0 | 130.9 | 154.7 | 184.5 | 226.1 | 327.3 | 3028.7 | 3992.7 | 5301.8 |
| 70° | 65.5 | 89.3 | 101.2 | 95.2 | 119.0 | 142.8 | 160.7 | 220.2 | 1547.1 | 2165.9 | 3016.8 |
| 72.5° | 47.6 | 71.4 | 77.4 | 77.4 | 71.4 | 101.2 | 119.0 | 154.7 | 672.4 | 1053.2 | 1368.6 |
| 75° | 35.7 | 47.6 | 53.6 | 47.6 | 41.7 | 65.5 | 83.3 | 101.2 | 440.3 | 630.7 | 797.4 |
| 77.5° | 17.9 | 17.9 | 29.8 | 29.8 | 17.9 | 35.7 | 41.7 | 59.5 | 249.9 | 368.9 | 458.2 |
| 80° | 6.0 | 0.0 | 0.0 | 6.0 | 0.0 | 11.9 | 17.9 | 29.8 | 130.9 | 196.4 | 285.6 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.0 | 65.5 | 59.5 | 148.8 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.9 | 35.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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

Scaled Data Report

REPORT NUMBER: P1502087
CATALOG NUMBER: GSS-SB5C-940-U-T2LG-HSS

**CANDELA DISTRIBUTION (continued):**

| | 285° | 293° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 360° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 3641.6 | *3641.6* | 3641.6 | 3641.6 | 3641.6 | 3641.6 | 3641.6 | 3641.6 | 3641.6 | 3641.6 |
| 2.5° | 3683.3 | *3683.3* | 3707.1 | 3742.8 | 3760.6 | 3772.5 | 3778.5 | 3790.4 | 3838.0 | 3826.1 |
| 5° | 3838.0 | *3849.9* | 3867.8 | 3903.5 | 3945.1 | 3933.2 | 3933.2 | 3933.2 | 3963.0 | 3939.2 |
| 7.5° | 4040.3 | *4076.0* | 4082.0 | 4123.6 | 4093.9 | 4034.4 | 3998.7 | 3945.1 | 3939.2 | 3939.2 |
| 10° | 4367.6 | *4355.7* | 4355.7 | 4302.1 | 4195.0 | 4022.5 | 3867.8 | 3760.6 | 3701.1 | 3707.1 |
| 12.5° | 4718.7 | *4671.1* | 4677.0 | 4480.6 | 4177.2 | 3796.3 | 3481.0 | 3248.9 | 3231.1 | 3213.2 |
| 15° | 5153.0 | *5028.1* | 5004.3 | 4552.0 | 3909.4 | 3326.3 | 3016.8 | 2832.4 | 2772.9 | 2755.0 |
| 17.5° | 5771.9 | *5456.5* | 5343.4 | 4427.1 | 3558.3 | 3034.7 | 2802.6 | 2719.3 | 2713.4 | 2707.4 |
| 20° | 6426.4 | *5801.6* | 5587.4 | 4242.6 | 3439.3 | 3040.6 | 2868.1 | 2844.3 | 2832.4 | 2838.3 |
| 22.5° | 7188.1 | *6021.8* | 5748.1 | 4272.4 | 3546.4 | 3237.0 | 3100.2 | 3082.3 | 3070.4 | 3082.3 |
| 25° | 7973.5 | *6277.7* | 5938.5 | 4510.4 | 3867.8 | 3600.0 | 3439.3 | 3403.6 | 3439.3 | 3492.9 |
| 27.5° | 8764.9 | *6622.8* | 6313.4 | 4980.5 | 4385.4 | 4093.9 | 3939.2 | 4070.1 | 4123.6 | 4129.6 |
| 30° | 9467.1 | *7104.8* | 6819.1 | 5641.0 | 4974.5 | 4683.0 | 4712.7 | 4879.3 | 4944.8 | 5010.2 |
| 32.5° | 10109.7 | *7747.4* | 7527.2 | 6390.7 | 5736.2 | 5563.6 | 5545.8 | 5670.7 | 5742.1 | 5700.5 |
| 35° | 10758.3 | *8586.4* | 8372.2 | 7205.9 | 6670.4 | 6527.6 | 6378.8 | 6622.8 | 6599.0 | 6533.5 |
| 37.5° | 11371.2 | *9431.4* | 9235.0 | 8080.6 | 7527.2 | 7277.3 | 7253.5 | 7473.7 | 7670.0 | 7658.1 |
| 40° | 11811.5 | *10115.7* | 9877.6 | 8949.4 | 8425.7 | 8211.5 | 8336.5 | 8717.3 | 8669.7 | 8604.3 |
| 42.5° | 12216.1 | *10698.8* | 10484.6 | 9711.0 | 9163.6 | 9258.8 | 9371.9 | 9627.7 | 9598.0 | 9532.5 |
| 45° | 12406.6 | *11198.6* | 11014.2 | 10288.2 | 10020.5 | 10323.9 | 10318.0 | 10413.2 | 10252.5 | 10228.7 |
| 47.5° | 12674.3 | *11555.7* | 11365.2 | 10805.9 | 11043.9 | 11168.9 | 10817.8 | 10716.6 | 10567.9 | 10448.9 |
| 50° | 13168.2 | *12109.0* | 11918.6 | 11591.4 | 11793.7 | 11406.9 | 10978.5 | 10758.3 | 10454.8 | 10246.6 |
| 52.5° | 13745.4 | *12948.0* | 12781.4 | 12650.5 | 12085.2 | 11287.9 | 10740.4 | 10341.8 | 9972.8 | 9794.3 |
| 55° | 14471.3 | *14185.7* | 14066.7 | 13346.7 | 11823.4 | 10800.0 | 10157.3 | 9413.5 | 8907.7 | 8741.1 |
| 57.5° | 14709.4 | *16000.6* | 15958.9 | 13459.8 | 11091.5 | 9913.3 | 8753.0 | 7747.4 | 7223.8 | 7116.7 |
| 60° | *14007.2* | *17422.7* | *17274.0* | *13269.4* | *9764.6* | *8044.9* | *6688.2* | *5658.8* | *4807.9* | *4683.0* |
| 62.5° | 13108.7 | *16333.8* | 16280.3 | 12311.4 | 7438.0 | 5765.9 | 4998.3 | 4034.4 | 3671.4 | 3576.2 |
| 65° | 11228.4 | *13364.6* | 13388.4 | 9877.6 | 4706.8 | 4141.5 | 4105.8 | 3207.3 | 2761.0 | 2689.6 |
| 67.5° | 8645.9 | *10252.5* | 10085.9 | 6212.2 | 2743.1 | 3314.4 | 3278.7 | 2344.5 | 1695.9 | 1648.3 |
| 70° | 5051.9 | *7634.3* | 7366.6 | 3231.1 | 1814.9 | 2766.9 | 2523.0 | 1648.3 | 1154.4 | 1100.8 |
| 72.5° | 2231.4 | *4201.0* | 4510.4 | 1422.1 | 1279.3 | 2201.6 | 1820.8 | 1011.6 | 648.6 | 636.7 |
| 75° | 1237.7 | *2082.6* | 2177.8 | 618.8 | 898.5 | 1565.0 | 1100.8 | 565.3 | 368.9 | 363.0 |
| 77.5° | 743.8 | *922.3* | 898.5 | 398.7 | 672.4 | 999.7 | 666.4 | 321.3 | 232.1 | 220.2 |
| 80° | 416.5 | *422.5* | 357.0 | 291.6 | 398.7 | 559.3 | 374.9 | 202.3 | 107.1 | 107.1 |
| 82.5° | 255.9 | *232.1* | 184.5 | 89.3 | 107.1 | 339.2 | 136.9 | 113.1 | 35.7 | 35.7 |
| 85° | 107.1 | *71.4* | 47.6 | 17.9 | 41.7 | 89.3 | 47.6 | 53.6 | 17.9 | 17.9 |
| 87.5° | 0.0 | *0.0* | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | *0.0* | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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

# LM-79-08: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

McGRAW-EDISON

Report Number: SP1-2106-271-4

Luminaire Tested: GFLD-SA1-A-940-U-WR-X-BK

Test Date: 06/15/2021

Report Generated By FNC07603 / LDUCLS01DT446
Version: v6.09

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

## Test Information

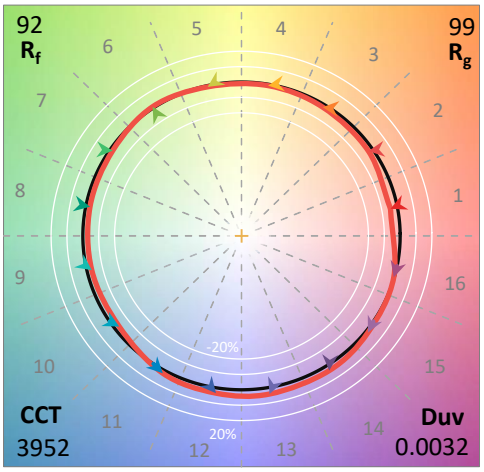
| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | SP1-2106-271-4 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP1 |
| Measurement Geometry: | 4π |
| Issue Date: | 06/15/2021 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | **GFLD-SA1-A-940-U-WR-X-BK** |
| Description: | MCGRAW EDISON |

N6, BLACK

## Spectral Parameters

| | | | | | |
|---|---|---|---|---|---|
| CCT (K): | 3952 | CRI (Ra): | 92.2 | | |
| CIE u': | 0.2242 | R1: | 92.0 | R9: | 63.3 |
| CIE v': | 0.5064 | R2: | 93.7 | R10: | 84.3 |
| Duv: | 0.0032 | R3: | 94.4 | R11: | 92.7 |
| CIE x: | 0.3848 | R4: | 93.1 | R12: | 75.6 |
| CIE y: | 0.3864 | R5: | 91.2 | R13: | 92.2 |
| CIE z: | 0.2287 | R6: | 91.1 | R14: | 96.5 |
| Peak Wavelength (nm): | 614 | R7: | 95.4 | | |
| Dominant Wavelength (nm): | 577 | R8: | 86.5 | | |
| Purity: | 31.6 | | | | |

| | |
|---|---|
| Rf: | 92.2 |
| Rg: | 98.9 |




## Test Conditions

| | |
|---|---|
| Stabilization Time: | 72M |
| Operation Time: | 12H |
| Room Temperature (°C) / RH%: | 24.8/42% |
| Sphere Temperature (°C): | 24.9 |

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

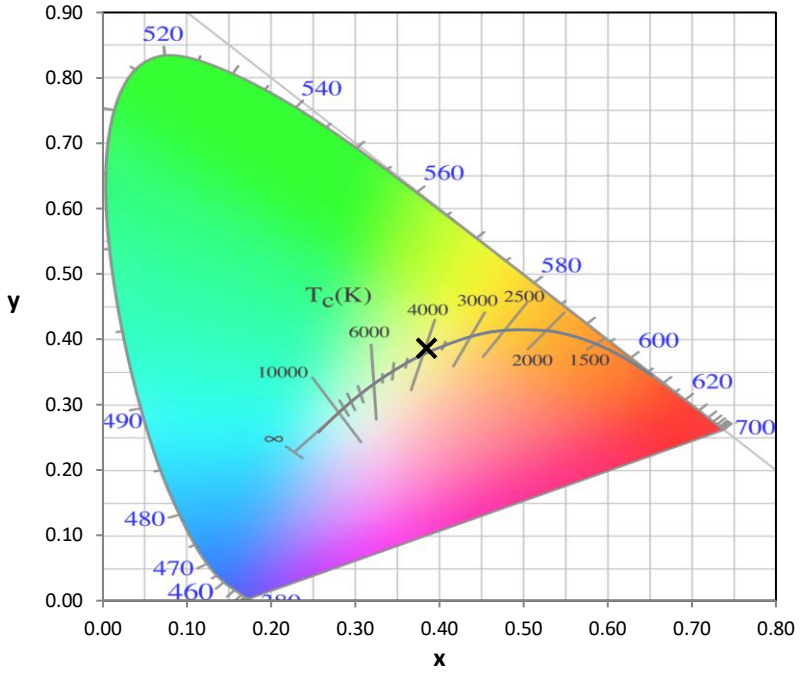
REPORT NUMBER: SP1-2106-271-4

| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | 76INCH SPHERE IN0058 | 1/31/2021 | 7/31/2021 |
| Power Meter | XITRON 2801 IN0071 | 12/1/2020 | 12/1/2021 |
| AC Power Source | CHROMA 61603 IN0063 | 12/1/2020 | 12/1/2021 |
| DC Power Source | AGILENT E3634A IN0208 | 12/1/2020 | 12/1/2021 |
| Sphere Thermometer | ONSET IN0085 | 12/1/2020 | 12/1/2021 |
| Room Thermometer | ONSET IN0046 | 12/1/2020 | 12/1/2021 |

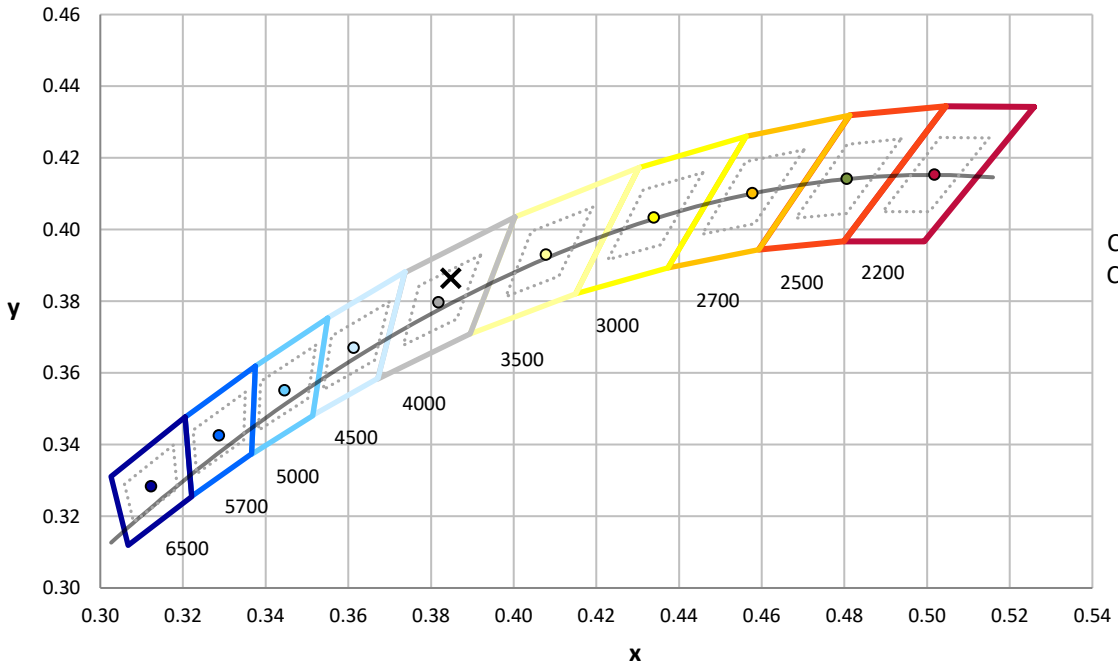
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

REPORT NUMBER: SP1-2106-271-4

## CIE 1931 Chromaticity Diagram




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



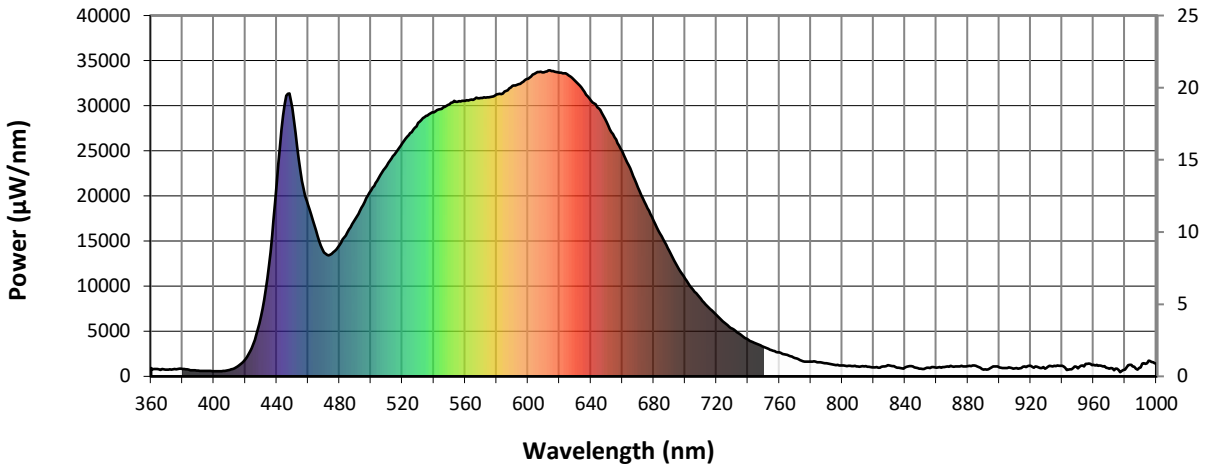

CCT = 3952K
CIE x = 0.3848
CIE y = 0.3864
Duv = 0.0032

Point lies inside the ANSI 4000K 4-step quadrangle

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

REPORT NUMBER: SP1-2106-271-4

## Photopic Flux vs. Wavelength



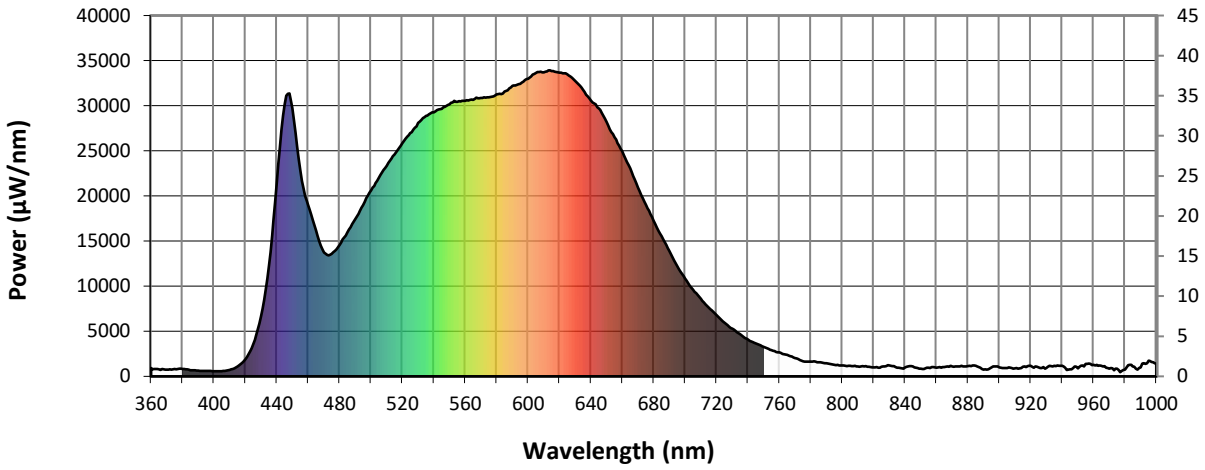

######

| λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 910 | NR | 490 | 17463 | NR | 620 | 33665 | NR | 750 | 3275 | NR | 880 | 1122 | NR |
| 365 | 784 | NR | 495 | 18986 | NR | 625 | 33477 | NR | 755 | 2901 | NR | 885 | 1170 | NR |
| 370 | 741 | NR | 500 | 20627 | NR | 630 | 32742 | NR | 760 | 2665 | NR | 890 | 751 | NR |
| 375 | 805 | NR | 505 | 21980 | NR | 635 | 31767 | NR | 765 | 2371 | NR | 895 | 990 | NR |
| 380 | 830 | NR | 510 | 23346 | NR | 640 | 30561 | NR | 770 | 2039 | NR | 900 | 982 | NR |
| 385 | 690 | NR | 515 | 24600 | NR | 645 | 29699 | NR | 775 | 1676 | NR | 905 | 936 | NR |
| 390 | 625 | NR | 520 | 25854 | NR | 650 | 28202 | NR | 780 | 1616 | NR | 910 | 888 | NR |
| 395 | 599 | NR | 525 | 26952 | NR | 655 | 26484 | NR | 785 | 1573 | NR | 915 | 1068 | NR |
| 400 | 568 | NR | 530 | 28081 | NR | 660 | 24930 | NR | 790 | 1452 | NR | 920 | 1179 | NR |
| 405 | 577 | NR | 535 | 28884 | NR | 665 | 23070 | NR | 795 | 1263 | NR | 925 | 1008 | NR |
| 410 | 720 | NR | 540 | 29271 | NR | 670 | 20926 | NR | 800 | 1203 | NR | 930 | 927 | NR |
| 415 | 1084 | NR | 545 | 29657 | NR | 675 | 19011 | NR | 805 | 1175 | NR | 935 | 1185 | NR |
| 420 | 1884 | NR | 550 | 30152 | NR | 680 | 17237 | NR | 810 | 1108 | NR | 940 | 1166 | NR |
| 425 | 3574 | NR | 555 | 30445 | NR | 685 | 15540 | NR | 815 | 1125 | NR | 945 | 779 | NR |
| 430 | 6636 | NR | 560 | 30559 | NR | 690 | 13894 | NR | 820 | 988 | NR | 950 | 905 | NR |
| 435 | 12267 | NR | 565 | 30663 | NR | 695 | 12196 | NR | 825 | 1070 | NR | 955 | 1369 | NR |
| 440 | 21326 | NR | 570 | 30877 | NR | 700 | 10840 | NR | 830 | 1219 | NR | 960 | 1280 | NR |
| 445 | 30150 | NR | 575 | 30916 | NR | 705 | 9613 | NR | 835 | 944 | NR | 965 | 1177 | NR |
| 450 | 29740 | NR | 580 | 31248 | NR | 710 | 8583 | NR | 840 | 983 | NR | 970 | 868 | NR |
| 455 | 22827 | NR | 585 | 31581 | NR | 715 | 7631 | NR | 845 | 1097 | NR | 975 | 843 | NR |
| 460 | 19023 | NR | 590 | 32218 | NR | 720 | 6779 | NR | 850 | 856 | NR | 980 | 744 | NR |
| 465 | 16163 | NR | 595 | 32417 | NR | 725 | 5950 | NR | 855 | 949 | NR | 985 | 1113 | NR |
| 470 | 13739 | NR | 600 | 32976 | NR | 730 | 5282 | NR | 860 | 954 | NR | 990 | 1002 | NR |
| 475 | 13571 | NR | 605 | 33620 | NR | 735 | 4673 | NR | 865 | 1019 | NR | 995 | 1732 | NR |
| 480 | 14597 | NR | 610 | 33704 | NR | 740 | 4087 | NR | 870 | 1089 | NR | 1000 | 1390 | NR |
| 485 | 15964 | NR | 615 | 33846 | NR | 745 | 3658 | NR | 875 | 1089 | NR | | | |

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

REPORT NUMBER: SP1-2106-271-4

## Scotopic Flux vs. Wavelength



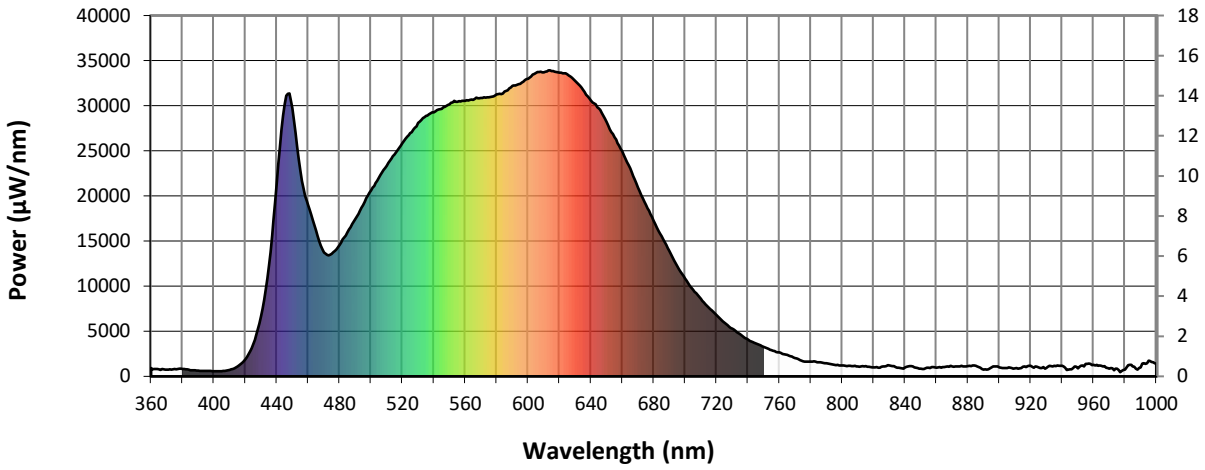

**Scotopic Lumens: 3705.7** **S/P: 1.75**

| λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 910 | NR | 490 | 17463 | NR | 620 | 33665 | NR | 750 | 3275 | NR | 880 | 1122 | NR |
| 365 | 784 | NR | 495 | 18986 | NR | 625 | 33477 | NR | 755 | 2901 | NR | 885 | 1170 | NR |
| 370 | 741 | NR | 500 | 20627 | NR | 630 | 32742 | NR | 760 | 2665 | NR | 890 | 751 | NR |
| 375 | 805 | NR | 505 | 21980 | NR | 635 | 31767 | NR | 765 | 2371 | NR | 895 | 990 | NR |
| 380 | 830 | NR | 510 | 23346 | NR | 640 | 30561 | NR | 770 | 2039 | NR | 900 | 982 | NR |
| 385 | 690 | NR | 515 | 24600 | NR | 645 | 29699 | NR | 775 | 1676 | NR | 905 | 936 | NR |
| 390 | 625 | NR | 520 | 25854 | NR | 650 | 28202 | NR | 780 | 1616 | NR | 910 | 888 | NR |
| 395 | 599 | NR | 525 | 26952 | NR | 655 | 26484 | NR | 785 | 1573 | NR | 915 | 1068 | NR |
| 400 | 568 | NR | 530 | 28081 | NR | 660 | 24930 | NR | 790 | 1452 | NR | 920 | 1179 | NR |
| 405 | 577 | NR | 535 | 28884 | NR | 665 | 23070 | NR | 795 | 1263 | NR | 925 | 1008 | NR |
| 410 | 720 | NR | 540 | 29271 | NR | 670 | 20926 | NR | 800 | 1203 | NR | 930 | 927 | NR |
| 415 | 1084 | NR | 545 | 29657 | NR | 675 | 19011 | NR | 805 | 1175 | NR | 935 | 1185 | NR |
| 420 | 1884 | NR | 550 | 30152 | NR | 680 | 17237 | NR | 810 | 1108 | NR | 940 | 1166 | NR |
| 425 | 3574 | NR | 555 | 30445 | NR | 685 | 15540 | NR | 815 | 1125 | NR | 945 | 779 | NR |
| 430 | 6636 | NR | 560 | 30559 | NR | 690 | 13894 | NR | 820 | 988 | NR | 950 | 905 | NR |
| 435 | 12267 | NR | 565 | 30663 | NR | 695 | 12196 | NR | 825 | 1070 | NR | 955 | 1369 | NR |
| 440 | 21326 | NR | 570 | 30877 | NR | 700 | 10840 | NR | 830 | 1219 | NR | 960 | 1280 | NR |
| 445 | 30150 | NR | 575 | 30916 | NR | 705 | 9613 | NR | 835 | 944 | NR | 965 | 1177 | NR |
| 450 | 29740 | NR | 580 | 31248 | NR | 710 | 8583 | NR | 840 | 983 | NR | 970 | 868 | NR |
| 455 | 22827 | NR | 585 | 31581 | NR | 715 | 7631 | NR | 845 | 1097 | NR | 975 | 843 | NR |
| 460 | 19023 | NR | 590 | 32218 | NR | 720 | 6779 | NR | 850 | 856 | NR | 980 | 744 | NR |
| 465 | 16163 | NR | 595 | 32417 | NR | 725 | 5950 | NR | 855 | 949 | NR | 985 | 1113 | NR |
| 470 | 13739 | NR | 600 | 32976 | NR | 730 | 5282 | NR | 860 | 954 | NR | 990 | 1002 | NR |
| 475 | 13571 | NR | 605 | 33620 | NR | 735 | 4673 | NR | 865 | 1019 | NR | 995 | 1732 | NR |
| 480 | 14597 | NR | 610 | 33704 | NR | 740 | 4087 | NR | 870 | 1089 | NR | 1000 | 1390 | NR |
| 485 | 15964 | NR | 615 | 33846 | NR | 745 | 3658 | NR | 875 | 1089 | NR | | | |

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

REPORT NUMBER: SP1-2106-271-4

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: 1498.3** **S/P: 0.71**

| λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) | λ (nm) | Power (µW/nm) | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 910 | NR | 490 | 17463 | NR | 620 | 33665 | NR | 750 | 3275 | NR | 880 | 1122 | NR |
| 365 | 784 | NR | 495 | 18986 | NR | 625 | 33477 | NR | 755 | 2901 | NR | 885 | 1170 | NR |
| 370 | 741 | NR | 500 | 20627 | NR | 630 | 32742 | NR | 760 | 2665 | NR | 890 | 751 | NR |
| 375 | 805 | NR | 505 | 21980 | NR | 635 | 31767 | NR | 765 | 2371 | NR | 895 | 990 | NR |
| 380 | 830 | NR | 510 | 23346 | NR | 640 | 30561 | NR | 770 | 2039 | NR | 900 | 982 | NR |
| 385 | 690 | NR | 515 | 24600 | NR | 645 | 29699 | NR | 775 | 1676 | NR | 905 | 936 | NR |
| 390 | 625 | NR | 520 | 25854 | NR | 650 | 28202 | NR | 780 | 1616 | NR | 910 | 888 | NR |
| 395 | 599 | NR | 525 | 26952 | NR | 655 | 26484 | NR | 785 | 1573 | NR | 915 | 1068 | NR |
| 400 | 568 | NR | 530 | 28081 | NR | 660 | 24930 | NR | 790 | 1452 | NR | 920 | 1179 | NR |
| 405 | 577 | NR | 535 | 28884 | NR | 665 | 23070 | NR | 795 | 1263 | NR | 925 | 1008 | NR |
| 410 | 720 | NR | 540 | 29271 | NR | 670 | 20926 | NR | 800 | 1203 | NR | 930 | 927 | NR |
| 415 | 1084 | NR | 545 | 29657 | NR | 675 | 19011 | NR | 805 | 1175 | NR | 935 | 1185 | NR |
| 420 | 1884 | NR | 550 | 30152 | NR | 680 | 17237 | NR | 810 | 1108 | NR | 940 | 1166 | NR |
| 425 | 3574 | NR | 555 | 30445 | NR | 685 | 15540 | NR | 815 | 1125 | NR | 945 | 779 | NR |
| 430 | 6636 | NR | 560 | 30559 | NR | 690 | 13894 | NR | 820 | 988 | NR | 950 | 905 | NR |
| 435 | 12267 | NR | 565 | 30663 | NR | 695 | 12196 | NR | 825 | 1070 | NR | 955 | 1369 | NR |
| 440 | 21326 | NR | 570 | 30877 | NR | 700 | 10840 | NR | 830 | 1219 | NR | 960 | 1280 | NR |
| 445 | 30150 | NR | 575 | 30916 | NR | 705 | 9613 | NR | 835 | 944 | NR | 965 | 1177 | NR |
| 450 | 29740 | NR | 580 | 31248 | NR | 710 | 8583 | NR | 840 | 983 | NR | 970 | 868 | NR |
| 455 | 22827 | NR | 585 | 31581 | NR | 715 | 7631 | NR | 845 | 1097 | NR | 975 | 843 | NR |
| 460 | 19023 | NR | 590 | 32218 | NR | 720 | 6779 | NR | 850 | 856 | NR | 980 | 744 | NR |
| 465 | 16163 | NR | 595 | 32417 | NR | 725 | 5950 | NR | 855 | 949 | NR | 985 | 1113 | NR |
| 470 | 13739 | NR | 600 | 32976 | NR | 730 | 5282 | NR | 860 | 954 | NR | 990 | 1002 | NR |
| 475 | 13571 | NR | 605 | 33620 | NR | 735 | 4673 | NR | 865 | 1019 | NR | 995 | 1732 | NR |
| 480 | 14597 | NR | 610 | 33704 | NR | 740 | 4087 | NR | 870 | 1089 | NR | 1000 | 1390 | NR |
| 485 | 15964 | NR | 615 | 33846 | NR | 745 | 3658 | NR | 875 | 1089 | NR | | | |

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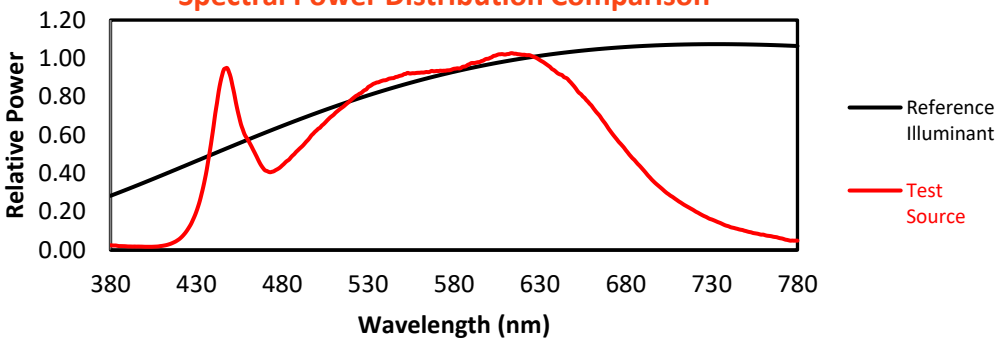
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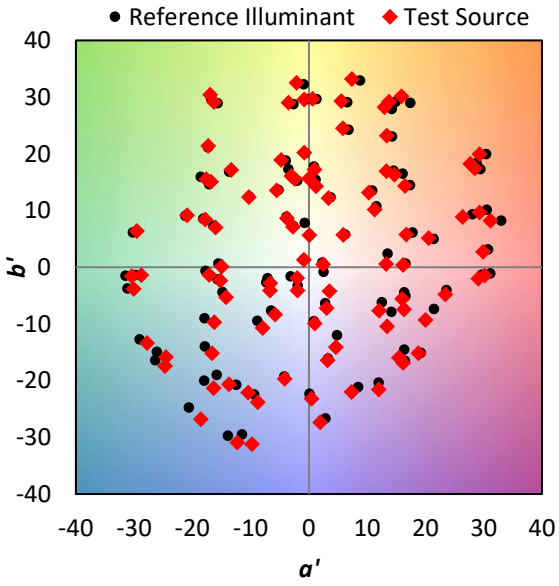
## Summary

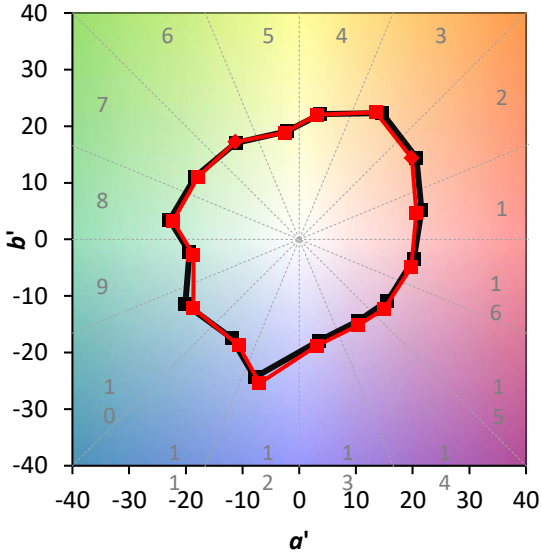
$R_f$ = 92.2
$R_g$ = 98.9
CIE $R_a$ = 92.2
$R_9$ = 63.3

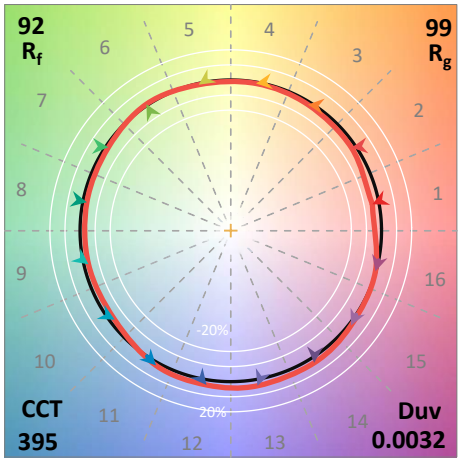
## Spectral Power Distribution Comparison

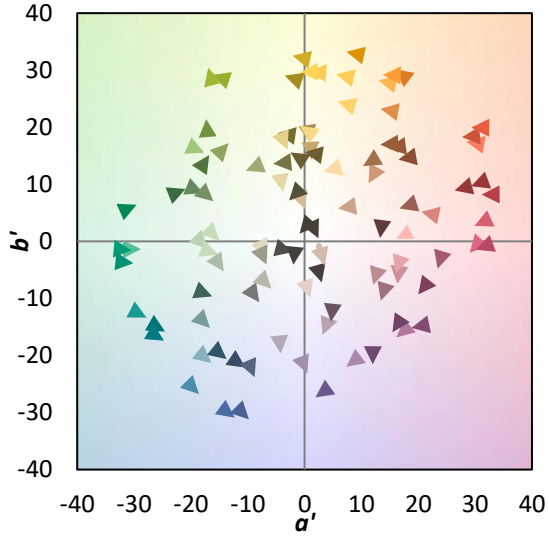



## Color Vector Graphics



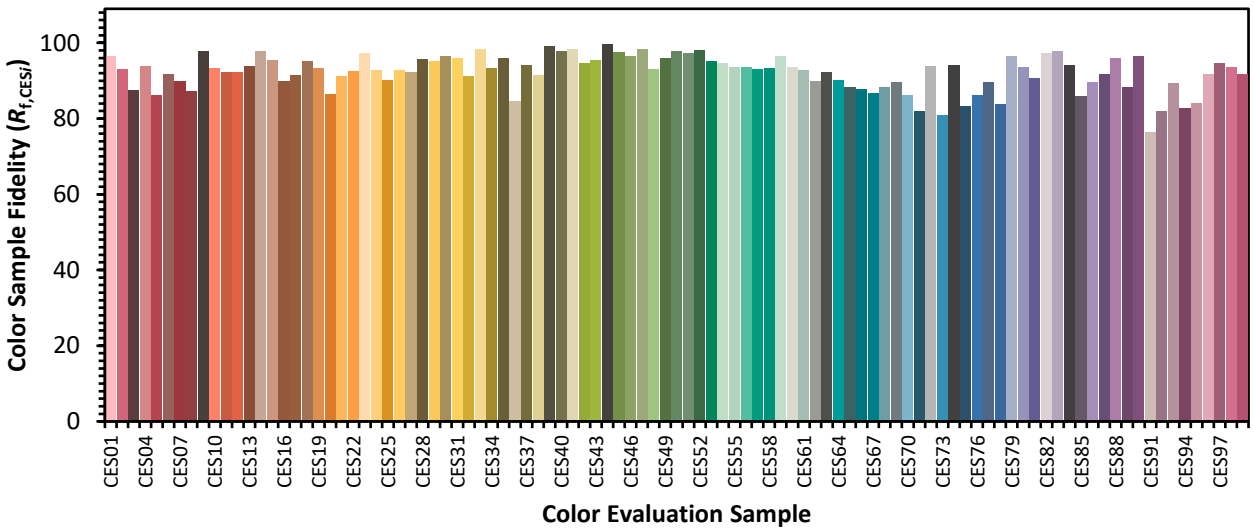
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**Individual Sample Fidelity Index ($R_{f,i}$)**

| | | | |
|---|---|---|---|
| CES01 = 85 | CES26 = 93 | CES51 = 97 | CES76 = 86 |
| CES02 = 61 | CES27 = 92 | CES52 = 98 | CES77 = 90 |
| CES03 = 31 | CES28 = 96 | CES53 = 95 | CES78 = 84 |
| CES04 = 69 | CES29 = 95 | CES54 = 95 | CES79 = 97 |
| CES05 = 49 | CES30 = 97 | CES55 = 94 | CES80 = 94 |
| CES06 = 50 | CES31 = 96 | CES56 = 94 | CES81 = 91 |
| CES07 = 42 | CES32 = 91 | CES57 = 93 | CES82 = 97 |
| CES08 = 41 | CES33 = 98 | CES58 = 93 | CES83 = 98 |
| CES09 = 29 | CES34 = 93 | CES59 = 96 | CES84 = 94 |
| CES10 = 74 | CES35 = 96 | CES60 = 94 | CES85 = 86 |
| CES11 = 57 | CES36 = 85 | CES61 = 93 | CES86 = 90 |
| CES12 = 63 | CES37 = 94 | CES62 = 90 | CES87 = 92 |
| CES13 = 43 | CES38 = 91 | CES63 = 92 | CES88 = 96 |
| CES14 = 74 | CES39 = 99 | CES64 = 90 | CES89 = 88 |
| CES15 = 71 | CES40 = 98 | CES65 = 88 | CES90 = 96 |
| CES16 = 47 | CES41 = 98 | CES66 = 88 | CES91 = 76 |
| CES17 = 49 | CES42 = 95 | CES67 = 87 | CES92 = 82 |
| CES18 = 56 | CES43 = 95 | CES68 = 88 | CES93 = 89 |
| CES19 = 71 | CES44 = 100 | CES69 = 90 | CES94 = 83 |
| CES20 = 66 | CES45 = 97 | CES70 = 86 | CES95 = 84 |
| CES21 = 85 | CES46 = 97 | CES71 = 82 | CES96 = 92 |
| CES22 = 78 | CES47 = 98 | CES72 = 94 | CES97 = 95 |
| CES23 = 91 | CES48 = 93 | CES73 = 81 | CES98 = 93 |
| CES24 = 90 | CES49 = 96 | CES74 = 94 | CES99 = 92 |
| CES25 = 71 | CES50 = 98 | CES75 = 83 | |

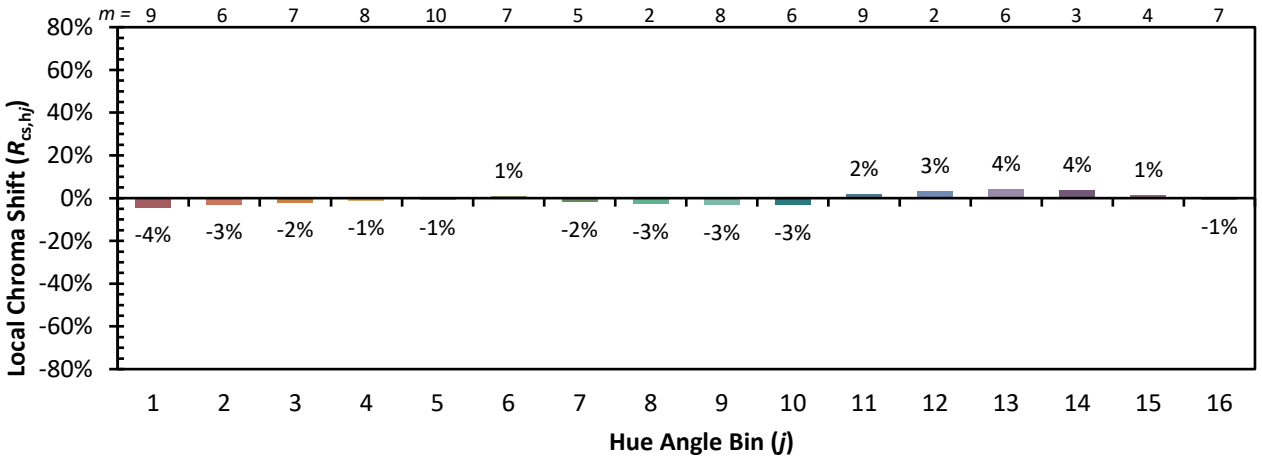


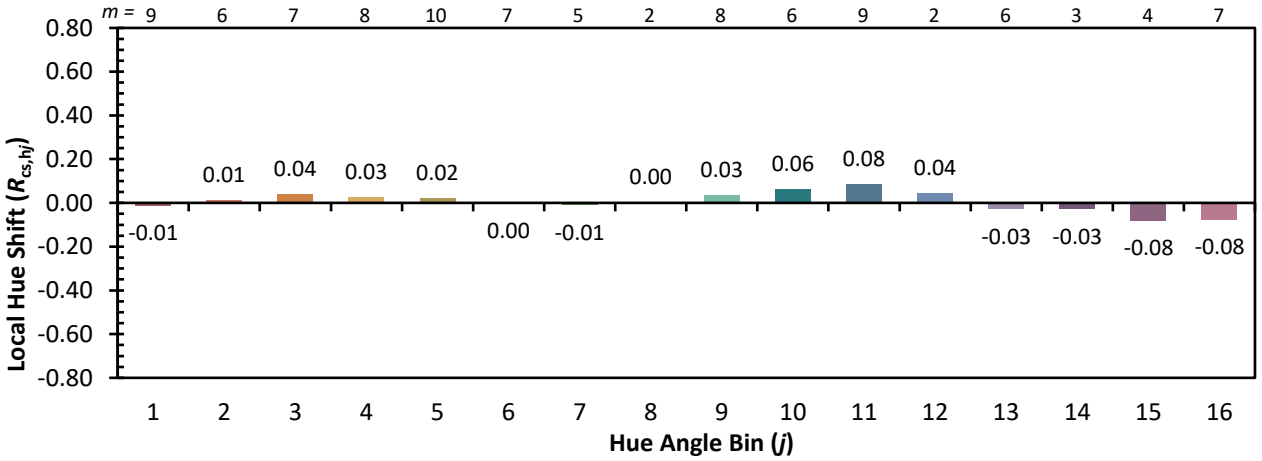
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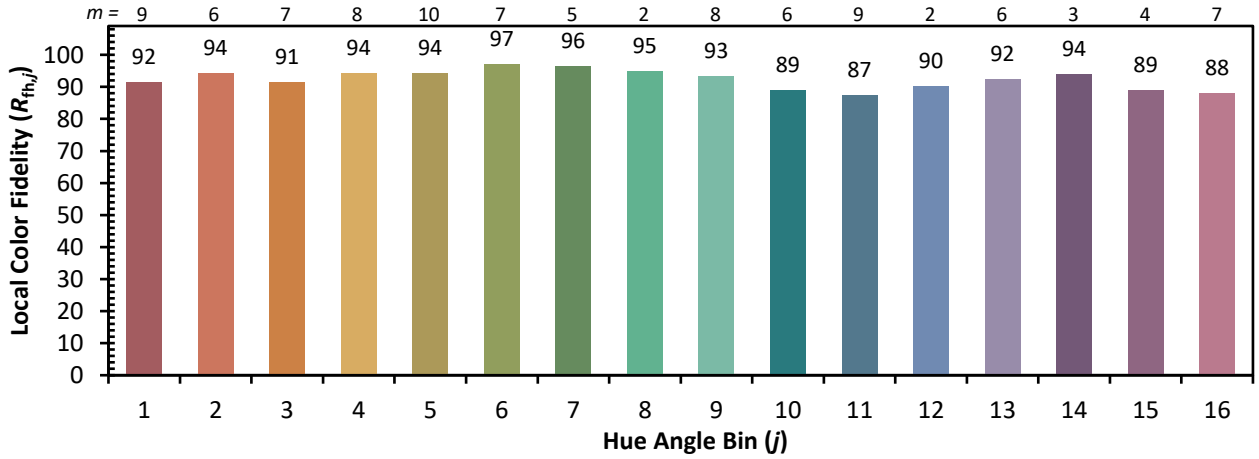
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## Color Rendition by Hue-Angle Bin



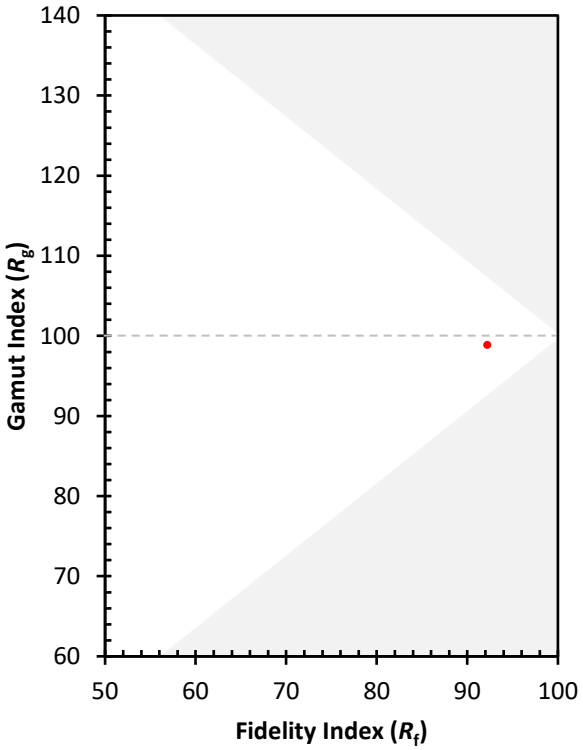



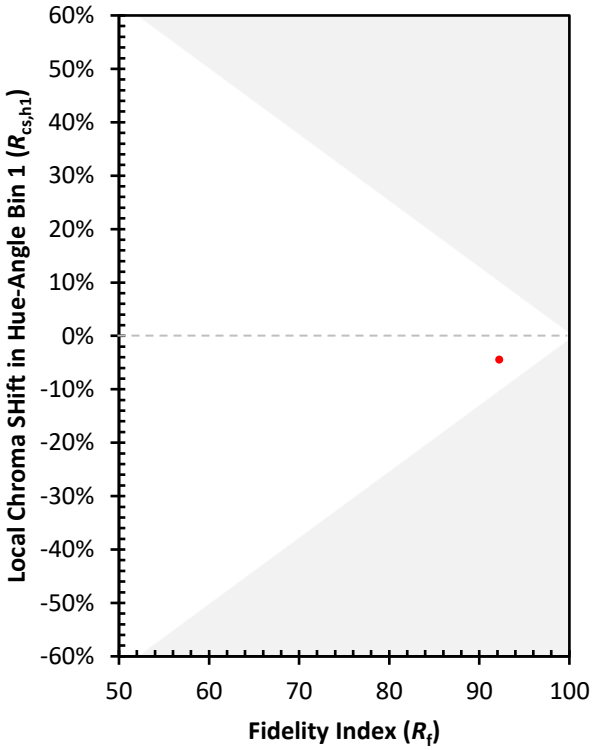
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### Measure Comparisons




(END OF REPORT)