

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



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P1057233

Luminaire Tested: PRLX-CYL2W-DI-X-927-15L-SP-FL-U-S-X-X-BLAK

Issue Date: 8/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1057233  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2504-407-2, G2-2504-407-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-CYL2W-DI-X-927-15L-SP-FL-U-S-X-X-BLAK  
Description: PrentaLux 2-INCH CYLINDER  
DOWNLIGHT 750 LUMENS, SPOT OPTIC (19-DEGREES)  
UPLIGHT 750 LUMENS, FLOOD OPTIC (38-DEGREES)  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

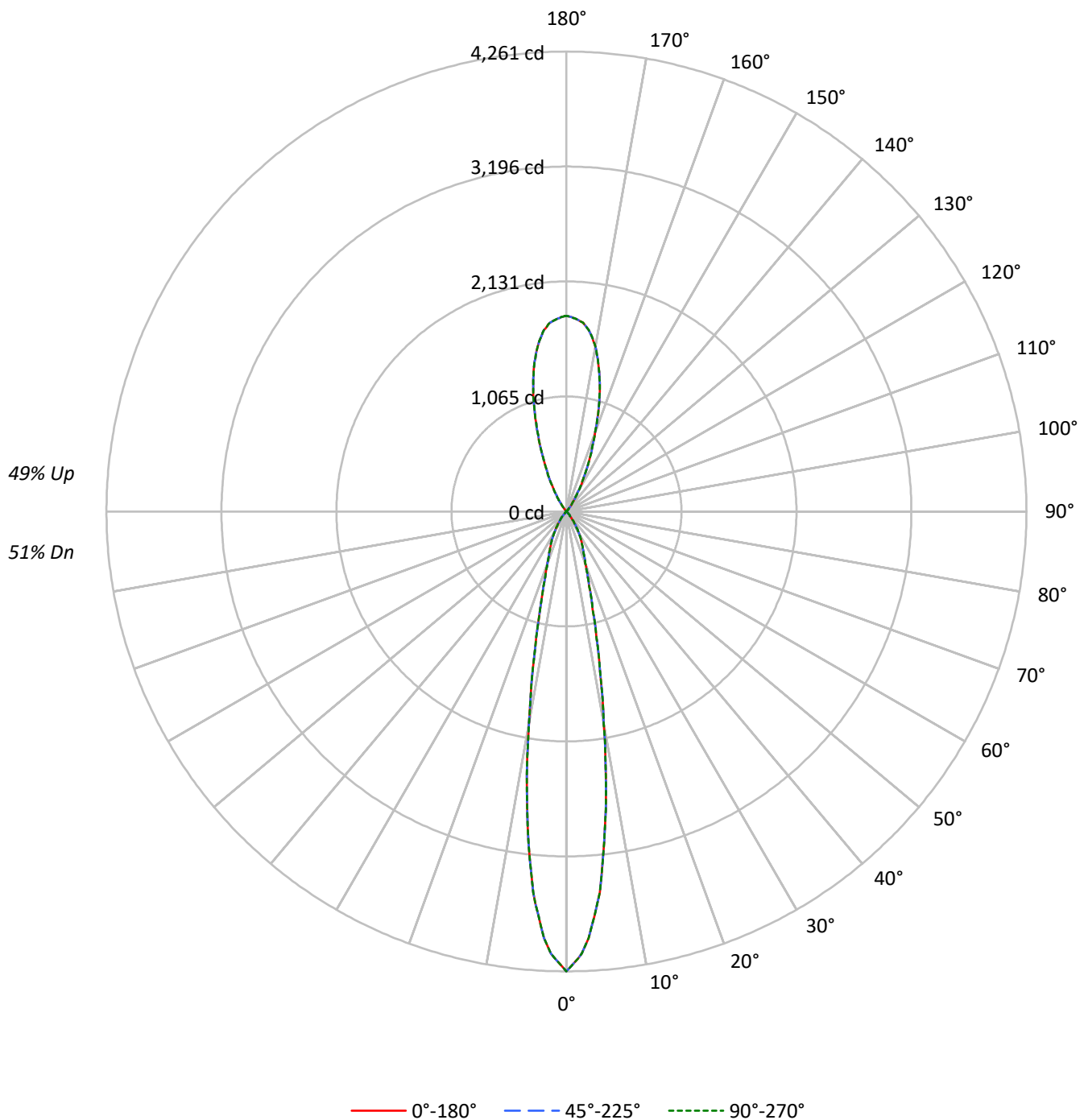
Lumens per Lamp: N/A  
Luminaire Lumens: 1588.9 lumens  
Efficiency: N/A  
Efficacy: 124.1 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.34  
Luminous Opening: Circular (Dia: 0.15' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 12.8  
Input Voltage (V): 120  
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: 24 FT

TEST NUMBER: P1057233

CATALOG NUMBER: PRLX-CYL2W-DI-X-927-15L-SP-FL-U-S-X-X-BLAK

### Luminous Intensity Polar Plot



TEST NUMBER: P1057233

CATALOG NUMBER: PRLX-CYL2W-DI-X-927-15L-SP-FL-U-S-X-X-BLAK

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20 |    |    |    | 20 |    |    |    | 20 |    |    |    | 20 |
| RC  | 80  |     |     |     | 70 |    |    |    | 50 |    |    |    | 30 |    |    |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 84 | 84 | 84 | 70 | 70 | 70 | 57 | 57 | 57 |
| 1   | 101 | 98  | 95  | 93  | 94 | 91 | 89 | 87 | 78 | 77 | 75 | 66 | 65 | 64 | 55 | 55 | 54 |
| 2   | 95  | 90  | 86  | 82  | 88 | 84 | 80 | 77 | 73 | 70 | 68 | 63 | 61 | 60 | 53 | 52 | 51 |
| 3   | 90  | 83  | 78  | 74  | 84 | 78 | 73 | 70 | 68 | 65 | 63 | 59 | 57 | 56 | 51 | 50 | 49 |
| 4   | 85  | 77  | 71  | 67  | 79 | 73 | 68 | 64 | 64 | 61 | 58 | 57 | 54 | 52 | 49 | 48 | 47 |
| 5   | 80  | 72  | 66  | 62  | 75 | 68 | 63 | 59 | 61 | 57 | 54 | 54 | 51 | 49 | 48 | 46 | 45 |
| 6   | 76  | 67  | 62  | 57  | 72 | 64 | 59 | 55 | 58 | 54 | 51 | 52 | 49 | 47 | 46 | 44 | 43 |
| 7   | 72  | 64  | 58  | 54  | 68 | 61 | 55 | 52 | 55 | 51 | 48 | 50 | 47 | 45 | 45 | 43 | 41 |
| 8   | 69  | 60  | 54  | 50  | 65 | 57 | 52 | 49 | 52 | 49 | 46 | 48 | 45 | 43 | 43 | 41 | 40 |
| 9   | 66  | 57  | 51  | 48  | 63 | 55 | 50 | 46 | 50 | 46 | 44 | 46 | 43 | 41 | 42 | 40 | 39 |
| 10  | 63  | 54  | 49  | 45  | 60 | 52 | 47 | 44 | 48 | 44 | 42 | 44 | 41 | 40 | 41 | 39 | 37 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 2746065 | 2746065 | 2746065 |
| 5°  | 2292224 | 2292224 | 2292224 |
| 10° | 1307151 | 1307151 | 1307151 |
| 15° | 625655  | 625655  | 625655  |
| 20° | 350226  | 350226  | 350226  |
| 25° | 245379  | 245379  | 245379  |
| 30° | 170030  | 170030  | 170030  |
| 35° | 89289   | 89289   | 89289   |
| 40° | 32892   | 32892   | 32892   |
| 45° | 9751    | 9751    | 9751    |
| 50° | 4612    | 4612    | 4612    |
| 55° | 3483    | 3483    | 3483    |
| 60° | 2964    | 2964    | 2964    |
| 65° | 2287    | 2287    | 2287    |
| 70° | 1507    | 1507    | 1507    |
| 75° | 0       | 0       | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9751 cd/sqm

TEST NUMBER: P1057233

CATALOG NUMBER: PRLX-CYL2W-DI-X-927-15L-SP-FL-U-S-X-X-BLAK

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 285.4  | 18.0      |
| 10°-20°   | 277.8  | 17.5      |
| 20°-30°   | 159.9  | 10.1      |
| 30°-40°   | 73.7   | 4.6       |
| 40°-50°   | 11.2   | 0.7       |
| 50°-60°   | 2.7    | 0.2       |
| 60°-70°   | 1.3    | 0.1       |
| 70°-80°   | 0.3    | 0.0       |
| 80°-90°   | 0.0    | 0.0       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.3    | 0.0       |
| 110°-120° | 1.3    | 0.1       |
| 120°-130° | 3.5    | 0.2       |
| 130°-140° | 10.3   | 0.7       |
| 140°-150° | 65.3   | 4.1       |
| 150°-160° | 212.1  | 13.3      |
| 160°-170° | 323.0  | 20.3      |
| 170°-180° | 160.8  | 10.1      |
| 0°-30°    | 723.1  | 45.5      |
| 0°-40°    | 796.9  | 50.2      |
| 0°-60°    | 810.7  | 51.0      |
| 0°-90°    | 812.4  | 51.1      |
| 90°-120°  | 1.6    | 0.1       |
| 90°-150°  | 80.7   | 5.1       |
| 90°-180°  | 777.0  | 48.9      |
| 0°-180°   | 1588.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 4261 | 4261  | 4261 | 4261  | 4261 |      |
| 5°   | 3544 | 3544  | 3544 | 3544  | 3544 | 285  |
| 15°  | 938  | 938   | 938  | 938   | 938  | 278  |
| 25°  | 345  | 345   | 345  | 345   | 345  | 160  |
| 35°  | 114  | 114   | 114  | 114   | 114  | 74   |
| 45°  | 11   | 11    | 11   | 11    | 11   | 11   |
| 55°  | 3    | 3     | 3    | 3     | 3    | 3    |
| 65°  | 2    | 2     | 2    | 2     | 2    | 1    |
| 75°  | 0    | 0     | 0    | 0     | 0    | 0    |
| 85°  | 0    | 0     | 0    | 0     | 0    | 0    |
| 90°  | 0    | 0     | 0    | 0     | 0    | 0    |
| 95°  | 0    | 0     | 0    | 0     | 0    | 0    |
| 105° | 0    | 0     | 0    | 0     | 0    | 0    |
| 115° | 2    | 2     | 2    | 2     | 2    | 1    |
| 125° | 4    | 4     | 4    | 4     | 4    | 3    |
| 135° | 12   | 12    | 12   | 12    | 12   | 10   |
| 145° | 94   | 94    | 94   | 94    | 94   | 65   |
| 155° | 454  | 454   | 454  | 454   | 454  | 212  |
| 165° | 1191 | 1191  | 1191 | 1191  | 1191 | 323  |
| 175° | 1757 | 1757  | 1757 | 1757  | 1757 | 161  |
| 180° | 1812 | 1812  | 1812 | 1812  | 1812 |      |

TEST NUMBER: P1057233

CATALOG NUMBER: PRLX-CYL2W-DI-X-927-15L-SP-FL-U-S-X-X-BLAK

**CANDELA DISTRIBUTION (FULL):**

|     | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-----|--------|--------|--------|--------|--------|
| 0°  | 4261.3 | 4261.3 | 4261.3 | 4261.3 | 4261.3 |
| 1°  | 4180.6 | 4180.6 | 4180.6 | 4180.6 | 4180.6 |
| 2°  | 4100.0 | 4100.0 | 4100.0 | 4100.0 | 4100.0 |
| 3°  | 3956.4 | 3956.4 | 3956.4 | 3956.4 | 3956.4 |
| 4°  | 3750.0 | 3750.0 | 3750.0 | 3750.0 | 3750.0 |
| 5°  | 3543.5 | 3543.5 | 3543.5 | 3543.5 | 3543.5 |
| 6°  | 3242.0 | 3242.0 | 3242.0 | 3242.0 | 3242.0 |
| 7°  | 2940.5 | 2940.5 | 2940.5 | 2940.5 | 2940.5 |
| 8°  | 2631.3 | 2631.3 | 2631.3 | 2631.3 | 2631.3 |
| 9°  | 2314.5 | 2314.5 | 2314.5 | 2314.5 | 2314.5 |
| 10° | 1997.6 | 1997.6 | 1997.6 | 1997.6 | 1997.6 |
| 11° | 1744.9 | 1744.9 | 1744.9 | 1744.9 | 1744.9 |
| 12° | 1492.1 | 1492.1 | 1492.1 | 1492.1 | 1492.1 |
| 13° | 1280.2 | 1280.2 | 1280.2 | 1280.2 | 1280.2 |
| 14° | 1109.0 | 1109.0 | 1109.0 | 1109.0 | 1109.0 |
| 15° | 937.8  | 937.8  | 937.8  | 937.8  | 937.8  |
| 16° | 830.5  | 830.5  | 830.5  | 830.5  | 830.5  |
| 17° | 723.1  | 723.1  | 723.1  | 723.1  | 723.1  |
| 18° | 637.7  | 637.7  | 637.7  | 637.7  | 637.7  |
| 19° | 574.2  | 574.2  | 574.2  | 574.2  | 574.2  |
| 20° | 510.7  | 510.7  | 510.7  | 510.7  | 510.7  |
| 21° | 471.8  | 471.8  | 471.8  | 471.8  | 471.8  |
| 22° | 432.8  | 432.8  | 432.8  | 432.8  | 432.8  |
| 23° | 399.7  | 399.7  | 399.7  | 399.7  | 399.7  |
| 24° | 372.4  | 372.4  | 372.4  | 372.4  | 372.4  |
| 25° | 345.1  | 345.1  | 345.1  | 345.1  | 345.1  |
| 26° | 321.8  | 321.8  | 321.8  | 321.8  | 321.8  |
| 27° | 298.5  | 298.5  | 298.5  | 298.5  | 298.5  |
| 28° | 275.1  | 275.1  | 275.1  | 275.1  | 275.1  |
| 29° | 251.8  | 251.8  | 251.8  | 251.8  | 251.8  |
| 30° | 228.5  | 228.5  | 228.5  | 228.5  | 228.5  |
| 31° | 204.3  | 204.3  | 204.3  | 204.3  | 204.3  |
| 32° | 180.1  | 180.1  | 180.1  | 180.1  | 180.1  |
| 33° | 157.0  | 157.0  | 157.0  | 157.0  | 157.0  |
| 34° | 135.3  | 135.3  | 135.3  | 135.3  | 135.3  |
| 35° | 113.5  | 113.5  | 113.5  | 113.5  | 113.5  |
| 36° | 96.0   | 96.0   | 96.0   | 96.0   | 96.0   |
| 37° | 78.5   | 78.5   | 78.5   | 78.5   | 78.5   |
| 38° | 63.6   | 63.6   | 63.6   | 63.6   | 63.6   |
| 39° | 51.4   | 51.4   | 51.4   | 51.4   | 51.4   |
| 40° | 39.1   | 39.1   | 39.1   | 39.1   | 39.1   |
| 41° | 31.7   | 31.7   | 31.7   | 31.7   | 31.7   |
| 42° | 24.4   | 24.4   | 24.4   | 24.4   | 24.4   |
| 43° | 18.7   | 18.7   | 18.7   | 18.7   | 18.7   |
| 44° | 14.7   | 14.7   | 14.7   | 14.7   | 14.7   |

TEST NUMBER: P1057233

CATALOG NUMBER: PRLX-CYL2W-DI-X-927-15L-SP-FL-U-S-X-X-BLAK

**CANDELA DISTRIBUTION (continued):**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  |
|-----|------|-------|------|-------|------|
| 45° | 10.7 | 10.7  | 10.7 | 10.7  | 10.7 |
| 46° | 8.9  | 8.9   | 8.9  | 8.9   | 8.9  |
| 47° | 7.1  | 7.1   | 7.1  | 7.1   | 7.1  |
| 48° | 5.8  | 5.8   | 5.8  | 5.8   | 5.8  |
| 49° | 5.2  | 5.2   | 5.2  | 5.2   | 5.2  |
| 50° | 4.6  | 4.6   | 4.6  | 4.6   | 4.6  |
| 51° | 4.0  | 4.0   | 4.0  | 4.0   | 4.0  |
| 52° | 3.4  | 3.4   | 3.4  | 3.4   | 3.4  |
| 53° | 3.1  | 3.1   | 3.1  | 3.1   | 3.1  |
| 54° | 3.1  | 3.1   | 3.1  | 3.1   | 3.1  |
| 55° | 3.1  | 3.1   | 3.1  | 3.1   | 3.1  |
| 56° | 2.8  | 2.8   | 2.8  | 2.8   | 2.8  |
| 57° | 2.5  | 2.5   | 2.5  | 2.5   | 2.5  |
| 58° | 2.3  | 2.3   | 2.3  | 2.3   | 2.3  |
| 59° | 2.3  | 2.3   | 2.3  | 2.3   | 2.3  |
| 60° | 2.3  | 2.3   | 2.3  | 2.3   | 2.3  |
| 61° | 2.0  | 2.0   | 2.0  | 2.0   | 2.0  |
| 62° | 1.7  | 1.7   | 1.7  | 1.7   | 1.7  |
| 63° | 1.5  | 1.5   | 1.5  | 1.5   | 1.5  |
| 64° | 1.5  | 1.5   | 1.5  | 1.5   | 1.5  |
| 65° | 1.5  | 1.5   | 1.5  | 1.5   | 1.5  |
| 66° | 1.2  | 1.2   | 1.2  | 1.2   | 1.2  |
| 67° | 0.9  | 0.9   | 0.9  | 0.9   | 0.9  |
| 68° | 0.8  | 0.8   | 0.8  | 0.8   | 0.8  |
| 69° | 0.8  | 0.8   | 0.8  | 0.8   | 0.8  |
| 70° | 0.8  | 0.8   | 0.8  | 0.8   | 0.8  |
| 71° | 0.8  | 0.8   | 0.8  | 0.8   | 0.8  |
| 72° | 0.8  | 0.8   | 0.8  | 0.8   | 0.8  |
| 73° | 0.6  | 0.6   | 0.6  | 0.6   | 0.6  |
| 74° | 0.3  | 0.3   | 0.3  | 0.3   | 0.3  |
| 75° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 76° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 77° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 78° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 79° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 80° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 81° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 82° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 83° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 84° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 85° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 86° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 87° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 88° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 89° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |

TEST NUMBER: P1057233

CATALOG NUMBER: PRLX-CYL2W-DI-X-927-15L-SP-FL-U-S-X-X-BLAK

**CANDELA DISTRIBUTION (continued):**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  |
|------|------|-------|------|-------|------|
| 90°  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 91°  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 92°  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 93°  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 94°  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 95°  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 96°  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 97°  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 98°  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 99°  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 100° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 101° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 102° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 103° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 104° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 105° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 106° | 0.3  | 0.3   | 0.3  | 0.3   | 0.3  |
| 107° | 0.6  | 0.6   | 0.6  | 0.6   | 0.6  |
| 108° | 0.8  | 0.8   | 0.8  | 0.8   | 0.8  |
| 109° | 0.8  | 0.8   | 0.8  | 0.8   | 0.8  |
| 110° | 0.8  | 0.8   | 0.8  | 0.8   | 0.8  |
| 111° | 0.8  | 0.8   | 0.8  | 0.8   | 0.8  |
| 112° | 0.8  | 0.8   | 0.8  | 0.8   | 0.8  |
| 113° | 0.9  | 0.9   | 0.9  | 0.9   | 0.9  |
| 114° | 1.2  | 1.2   | 1.2  | 1.2   | 1.2  |
| 115° | 1.5  | 1.5   | 1.5  | 1.5   | 1.5  |
| 116° | 1.5  | 1.5   | 1.5  | 1.5   | 1.5  |
| 117° | 1.5  | 1.5   | 1.5  | 1.5   | 1.5  |
| 118° | 1.7  | 1.7   | 1.7  | 1.7   | 1.7  |
| 119° | 2.0  | 2.0   | 2.0  | 2.0   | 2.0  |
| 120° | 2.3  | 2.3   | 2.3  | 2.3   | 2.3  |
| 121° | 2.6  | 2.6   | 2.6  | 2.6   | 2.6  |
| 122° | 2.9  | 2.9   | 2.9  | 2.9   | 2.9  |
| 123° | 3.2  | 3.2   | 3.2  | 3.2   | 3.2  |
| 124° | 3.5  | 3.5   | 3.5  | 3.5   | 3.5  |
| 125° | 3.8  | 3.8   | 3.8  | 3.8   | 3.8  |
| 126° | 4.1  | 4.1   | 4.1  | 4.1   | 4.1  |
| 127° | 4.4  | 4.4   | 4.4  | 4.4   | 4.4  |
| 128° | 4.9  | 4.9   | 4.9  | 4.9   | 4.9  |
| 129° | 5.5  | 5.5   | 5.5  | 5.5   | 5.5  |
| 130° | 6.1  | 6.1   | 6.1  | 6.1   | 6.1  |
| 131° | 7.1  | 7.1   | 7.1  | 7.1   | 7.1  |
| 132° | 8.0  | 8.0   | 8.0  | 8.0   | 8.0  |
| 133° | 9.0  | 9.0   | 9.0  | 9.0   | 9.0  |
| 134° | 10.3 | 10.3  | 10.3 | 10.3  | 10.3 |

TEST NUMBER: P1057233

CATALOG NUMBER: PRLX-CYL2W-DI-X-927-15L-SP-FL-U-S-X-X-BLAK

**CANDELA DISTRIBUTION (continued):**

|      | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|------|--------|--------|--------|--------|--------|
| 135° | 11.5   | 11.5   | 11.5   | 11.5   | 11.5   |
| 136° | 13.6   | 13.6   | 13.6   | 13.6   | 13.6   |
| 137° | 15.8   | 15.8   | 15.8   | 15.8   | 15.8   |
| 138° | 19.3   | 19.3   | 19.3   | 19.3   | 19.3   |
| 139° | 24.2   | 24.2   | 24.2   | 24.2   | 24.2   |
| 140° | 29.1   | 29.1   | 29.1   | 29.1   | 29.1   |
| 141° | 38.6   | 38.6   | 38.6   | 38.6   | 38.6   |
| 142° | 48.2   | 48.2   | 48.2   | 48.2   | 48.2   |
| 143° | 61.0   | 61.0   | 61.0   | 61.0   | 61.0   |
| 144° | 77.3   | 77.3   | 77.3   | 77.3   | 77.3   |
| 145° | 93.6   | 93.6   | 93.6   | 93.6   | 93.6   |
| 146° | 117.5  | 117.5  | 117.5  | 117.5  | 117.5  |
| 147° | 141.4  | 141.4  | 141.4  | 141.4  | 141.4  |
| 148° | 169.6  | 169.6  | 169.6  | 169.6  | 169.6  |
| 149° | 202.1  | 202.1  | 202.1  | 202.1  | 202.1  |
| 150° | 234.7  | 234.7  | 234.7  | 234.7  | 234.7  |
| 151° | 274.5  | 274.5  | 274.5  | 274.5  | 274.5  |
| 152° | 314.4  | 314.4  | 314.4  | 314.4  | 314.4  |
| 153° | 358.3  | 358.3  | 358.3  | 358.3  | 358.3  |
| 154° | 406.1  | 406.1  | 406.1  | 406.1  | 406.1  |
| 155° | 454.0  | 454.0  | 454.0  | 454.0  | 454.0  |
| 156° | 513.5  | 513.5  | 513.5  | 513.5  | 513.5  |
| 157° | 573.0  | 573.0  | 573.0  | 573.0  | 573.0  |
| 158° | 638.5  | 638.5  | 638.5  | 638.5  | 638.5  |
| 159° | 709.9  | 709.9  | 709.9  | 709.9  | 709.9  |
| 160° | 781.4  | 781.4  | 781.4  | 781.4  | 781.4  |
| 161° | 863.3  | 863.3  | 863.3  | 863.3  | 863.3  |
| 162° | 945.2  | 945.2  | 945.2  | 945.2  | 945.2  |
| 163° | 1027.1 | 1027.1 | 1027.1 | 1027.1 | 1027.1 |
| 164° | 1109.0 | 1109.0 | 1109.0 | 1109.0 | 1109.0 |
| 165° | 1190.9 | 1190.9 | 1190.9 | 1190.9 | 1190.9 |
| 166° | 1267.9 | 1267.9 | 1267.9 | 1267.9 | 1267.9 |
| 167° | 1344.9 | 1344.9 | 1344.9 | 1344.9 | 1344.9 |
| 168° | 1416.2 | 1416.2 | 1416.2 | 1416.2 | 1416.2 |
| 169° | 1481.9 | 1481.9 | 1481.9 | 1481.9 | 1481.9 |
| 170° | 1547.5 | 1547.5 | 1547.5 | 1547.5 | 1547.5 |
| 171° | 1599.0 | 1599.0 | 1599.0 | 1599.0 | 1599.0 |
| 172° | 1650.6 | 1650.6 | 1650.6 | 1650.6 | 1650.6 |
| 173° | 1692.4 | 1692.4 | 1692.4 | 1692.4 | 1692.4 |
| 174° | 1724.6 | 1724.6 | 1724.6 | 1724.6 | 1724.6 |
| 175° | 1756.8 | 1756.8 | 1756.8 | 1756.8 | 1756.8 |
| 176° | 1770.6 | 1770.6 | 1770.6 | 1770.6 | 1770.6 |
| 177° | 1784.5 | 1784.5 | 1784.5 | 1784.5 | 1784.5 |
| 178° | 1795.5 | 1795.5 | 1795.5 | 1795.5 | 1795.5 |
| 179° | 1803.8 | 1803.8 | 1803.8 | 1803.8 | 1803.8 |



TEST NUMBER: P1057233  
CATALOG NUMBER: PRLX-CYL2W-DI-X-927-15L-SP-FL-U-S-X-X-BLAK

CANDELA DISTRIBUTION (continued):

|      | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|------|--------|--------|--------|--------|--------|
| 180° | 1812.1 | 1812.1 | 1812.1 | 1812.1 | 1812.1 |

TEST NUMBER: P1057233

CATALOG NUMBER: PRLX-CYL2W-DI-X-927-15L-SP-FL-U-S-X-X-BLAK

**CIE UGR TABLE:**

| Reflectances:   |      |                  |      |      |      |      |                |      |      |      |      |
|-----------------|------|------------------|------|------|------|------|----------------|------|------|------|------|
| Ceiling         |      | 0.7              | 0.7  | 0.5  | 0.5  | 0.3  | 0.7            | 0.7  | 0.5  | 0.5  | 0.3  |
| Wall            |      | 0.5              | 0.3  | 0.5  | 0.3  | 0.3  | 0.5            | 0.3  | 0.5  | 0.3  | 0.3  |
| Reference plane |      | 0.2              | 0.2  | 0.2  | 0.2  | 0.2  | 0.2            | 0.2  | 0.2  | 0.2  | 0.2  |
| Room dimensions |      | Viewed crosswise |      |      |      |      | Viewed endwise |      |      |      |      |
| X=2H            | Y=2H | 0.00             | 0.00 | 0.00 | 0.01 | 1.28 | 0.00           | 0.00 | 0.00 | 0.01 | 1.28 |
|                 | 3H   | 0.00             | 0.00 | 0.00 | 0.43 | 1.73 | 0.00           | 0.00 | 0.00 | 0.43 | 1.73 |
|                 | 4H   | 0.00             | 0.00 | 0.00 | 0.35 | 1.66 | 0.00           | 0.00 | 0.00 | 0.35 | 1.66 |
|                 | 6H   | 0.00             | 0.00 | 0.00 | 0.20 | 1.51 | 0.00           | 0.00 | 0.00 | 0.20 | 1.51 |
|                 | 8H   | 0.00             | 0.00 | 0.00 | 0.12 | 1.43 | 0.00           | 0.00 | 0.00 | 0.12 | 1.43 |
|                 | 12H  | 0.00             | 0.00 | 0.00 | 0.03 | 1.36 | 0.00           | 0.00 | 0.00 | 0.03 | 1.36 |
| 4H              | 2H   | 0.00             | 0.00 | 0.00 | 0.20 | 1.51 | 0.00           | 0.00 | 0.00 | 0.20 | 1.51 |
|                 | 3H   | 0.00             | 0.00 | 0.40 | 0.83 | 2.14 | 0.00           | 0.00 | 0.40 | 0.83 | 2.14 |
|                 | 4H   | 0.00             | 0.00 | 0.33 | 0.71 | 2.05 | 0.00           | 0.00 | 0.33 | 0.71 | 2.05 |
|                 | 6H   | 0.00             | 0.00 | 0.23 | 0.56 | 1.90 | 0.00           | 0.00 | 0.23 | 0.56 | 1.90 |
|                 | 8H   | 0.00             | 0.00 | 0.16 | 0.46 | 1.81 | 0.00           | 0.00 | 0.16 | 0.46 | 1.81 |
|                 | 12H  | 0.00             | 0.00 | 0.10 | 0.37 | 1.72 | 0.00           | 0.00 | 0.10 | 0.37 | 1.72 |
| 8H              | 4H   | 0.00             | 0.00 | 0.23 | 0.53 | 1.88 | 0.00           | 0.00 | 0.23 | 0.53 | 1.88 |
|                 | 6H   | 0.00             | 0.00 | 0.13 | 0.39 | 1.74 | 0.00           | 0.00 | 0.13 | 0.39 | 1.74 |
|                 | 8H   | 0.00             | 0.00 | 0.07 | 0.28 | 1.65 | 0.00           | 0.00 | 0.07 | 0.28 | 1.65 |
|                 | 12H  | 0.00             | 0.00 | 0.00 | 0.17 | 1.59 | 0.00           | 0.00 | 0.00 | 0.17 | 1.59 |
| 12H             | 4H   | 0.00             | 0.00 | 0.17 | 0.44 | 1.79 | 0.00           | 0.00 | 0.17 | 0.44 | 1.79 |
|                 | 6H   | 0.00             | 0.00 | 0.07 | 0.28 | 1.65 | 0.00           | 0.00 | 0.07 | 0.28 | 1.65 |
|                 | 8H   | 0.00             | 0.00 | 0.00 | 0.17 | 1.59 | 0.00           | 0.00 | 0.00 | 0.17 | 1.59 |

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

Report Prepared for

Cooper Lighting Solutions

PrentaLux 3D Printing

Report Number: SP1-2504-407-1

Test Date: 07/16/2025

Luminaire Tested: PRLX-CYL2-X-927-10L-FL-U-S-X-X-BLAK

Data in this report applies to families of products including PRLX-CYL2-X-927-10L-FL-U-S-X-X-BLAK

### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2504-407-1  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry:  $4\pi$   
 Issue Date: 07/30/2025  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: PentaLux 3D Printing  
 Catalog Number: **PRLX-CYL2-X-927-10L-FL-U-S-X-X-BLAK**  
 Description: PentaLux 2-INCH CYLINDER, BLACK TRIM, FLOOD OPTIC, 1000 LUMENS, 2700K

### Spectral Parameters

CCT (K): 2742  
 CIE  $u'$ : 0.2602  
 CIE  $v'$ : 0.5287  
 Duv: 0.0015  
 CIE x: 0.4591  
 CIE y: 0.4146  
 CIE z: 0.1264  
 Peak Wavelength (nm): 630  
 Dominant Wavelength (nm): 583  
 Purity: 62.24215  
 R<sub>f</sub>: 91.5  
 R<sub>g</sub>: 100.2

CRI (Ra): 93.2  
 R1: 94.5  
 R2: 95.6  
 R3: 95.5  
 R4: 95.6  
 R5: 93.8  
 R6: 96.5  
 R7: 92.3  
 R8: 81.6  
 R9: 55.9  
 R10: 87.9  
 R11: 97.0  
 R12: 84.0  
 R13: 94.5  
 R14: 96.0  
 R15: 88.9



### Test Conditions

Stabilization Time: 41M  
 Operation Time: 1H 41M  
 Sphere Temperature (°C): 24.0

REPORT NUMBER: SP1-2504-407-1

| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| Photometer                     | 76INCH SPHERE IN0058  | 6/16/2025        | 12/16/2025           |
| Power Meter                    | XITRON INXT2011004    | 1/21/2025        | 1/21/2026            |
| AC Power Source                | CHROMA 61603 IN0063   | 10/22/2024       | 10/22/2025           |
| DC Power Source                | AGILENT E3634A IN0208 | 10/22/2024       | 10/22/2025           |
| Sphere Thermometer             | ONSET IN0085          | 10/22/2024       | 10/22/2025           |
| Room Thermometer               | ONSET IN0046          | 10/22/2024       | 10/22/2025           |

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**CIE 1931 Chromaticity Diagram**



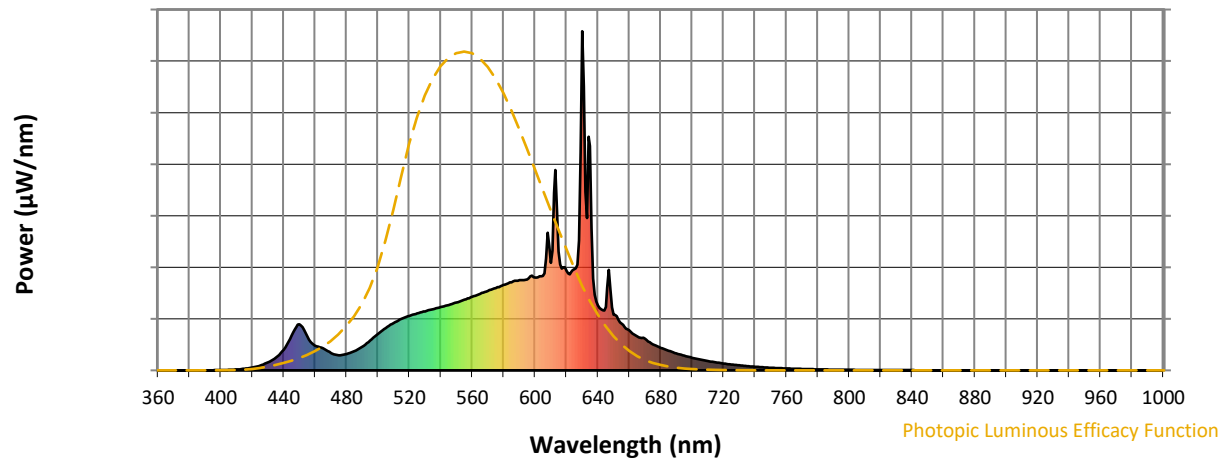
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2504-407-1

### Photopic Flux vs. Wavelength



### Photopic Lumens: NR

| $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) |
|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|
| 360               | 0                                    | NR                             | 490               | 70                                   | NR                             | 620               | 293                                  | NR                             | 750               | 8                                    | NR                             | 880               | 0                                    | NR                             |
| 365               | 0                                    | NR                             | 495               | 88                                   | NR                             | 625               | 299                                  | NR                             | 755               | 7                                    | NR                             | 885               | 0                                    | NR                             |
| 370               | 0                                    | NR                             | 500               | 108                                  | NR                             | 630               | 1000                                 | NR                             | 760               | 6                                    | NR                             | 890               | 0                                    | NR                             |
| 375               | 0                                    | NR                             | 505               | 125                                  | NR                             | 635               | 661                                  | NR                             | 765               | 5                                    | NR                             | 895               | 0                                    | NR                             |
| 380               | 0                                    | NR                             | 510               | 140                                  | NR                             | 640               | 192                                  | NR                             | 770               | 4                                    | NR                             | 900               | 0                                    | NR                             |
| 385               | 0                                    | NR                             | 515               | 152                                  | NR                             | 645               | 187                                  | NR                             | 775               | 4                                    | NR                             | 905               | 0                                    | NR                             |
| 390               | 0                                    | NR                             | 520               | 160                                  | NR                             | 650               | 164                                  | NR                             | 780               | 3                                    | NR                             | 910               | 0                                    | NR                             |
| 395               | 0                                    | NR                             | 525               | 168                                  | NR                             | 655               | 138                                  | NR                             | 785               | 3                                    | NR                             | 915               | 0                                    | NR                             |
| 400               | 1                                    | NR                             | 530               | 174                                  | NR                             | 660               | 118                                  | NR                             | 790               | 2                                    | NR                             | 920               | 0                                    | NR                             |
| 405               | 2                                    | NR                             | 535               | 180                                  | NR                             | 665               | 100                                  | NR                             | 795               | 2                                    | NR                             | 925               | 0                                    | NR                             |
| 410               | 3                                    | NR                             | 540               | 187                                  | NR                             | 670               | 94                                   | NR                             | 800               | 2                                    | NR                             | 930               | 0                                    | NR                             |
| 415               | 5                                    | NR                             | 545               | 193                                  | NR                             | 675               | 77                                   | NR                             | 805               | 1                                    | NR                             | 935               | 0                                    | NR                             |
| 420               | 9                                    | NR                             | 550               | 200                                  | NR                             | 680               | 67                                   | NR                             | 810               | 1                                    | NR                             | 940               | 0                                    | NR                             |
| 425               | 14                                   | NR                             | 555               | 208                                  | NR                             | 685               | 58                                   | NR                             | 815               | 1                                    | NR                             | 945               | 0                                    | NR                             |
| 430               | 23                                   | NR                             | 560               | 217                                  | NR                             | 690               | 50                                   | NR                             | 820               | 1                                    | NR                             | 950               | 0                                    | NR                             |
| 435               | 38                                   | NR                             | 565               | 226                                  | NR                             | 695               | 43                                   | NR                             | 825               | 1                                    | NR                             | 955               | 0                                    | NR                             |
| 440               | 61                                   | NR                             | 570               | 234                                  | NR                             | 700               | 37                                   | NR                             | 830               | 1                                    | NR                             | 960               | 0                                    | NR                             |
| 445               | 103                                  | NR                             | 575               | 243                                  | NR                             | 705               | 32                                   | NR                             | 835               | 1                                    | NR                             | 965               | 0                                    | NR                             |
| 450               | 135                                  | NR                             | 580               | 252                                  | NR                             | 710               | 28                                   | NR                             | 840               | 1                                    | NR                             | 970               | 0                                    | NR                             |
| 455               | 100                                  | NR                             | 585               | 260                                  | NR                             | 715               | 23                                   | NR                             | 845               | 0                                    | NR                             | 975               | 0                                    | NR                             |
| 460               | 72                                   | NR                             | 590               | 266                                  | NR                             | 720               | 20                                   | NR                             | 850               | 0                                    | NR                             | 980               | 0                                    | NR                             |
| 465               | 65                                   | NR                             | 595               | 268                                  | NR                             | 725               | 17                                   | NR                             | 855               | 0                                    | NR                             | 985               | 0                                    | NR                             |
| 470               | 51                                   | NR                             | 600               | 274                                  | NR                             | 730               | 15                                   | NR                             | 860               | 0                                    | NR                             | 990               | 0                                    | NR                             |
| 475               | 45                                   | NR                             | 605               | 278                                  | NR                             | 735               | 13                                   | NR                             | 865               | 0                                    | NR                             | 995               | 0                                    | NR                             |
| 480               | 48                                   | NR                             | 610               | 317                                  | NR                             | 740               | 11                                   | NR                             | 870               | 0                                    | NR                             | 1000              | 0                                    | NR                             |
| 485               | 57                                   | NR                             | 615               | 350                                  | NR                             | 745               | 9                                    | NR                             | 875               | 0                                    | NR                             |                   |                                      |                                |

REPORT NUMBER: SP1-2504-407-1

### Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.28

| 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    | 70                       | NR            | 620    | 293                      | NR            | 750    | 8                        | NR            | 880    | 0                        | NR            |
| 365    | 0                        | NR            | 495    | 88                       | NR            | 625    | 299                      | NR            | 755    | 7                        | NR            | 885    | 0                        | NR            |
| 370    | 0                        | NR            | 500    | 108                      | NR            | 630    | 1000                     | NR            | 760    | 6                        | NR            | 890    | 0                        | NR            |
| 375    | 0                        | NR            | 505    | 125                      | NR            | 635    | 661                      | NR            | 765    | 5                        | NR            | 895    | 0                        | NR            |
| 380    | 0                        | NR            | 510    | 140                      | NR            | 640    | 192                      | NR            | 770    | 4                        | NR            | 900    | 0                        | NR            |
| 385    | 0                        | NR            | 515    | 152                      | NR            | 645    | 187                      | NR            | 775    | 4                        | NR            | 905    | 0                        | NR            |
| 390    | 0                        | NR            | 520    | 160                      | NR            | 650    | 164                      | NR            | 780    | 3                        | NR            | 910    | 0                        | NR            |
| 395    | 0                        | NR            | 525    | 168                      | NR            | 655    | 138                      | NR            | 785    | 3                        | NR            | 915    | 0                        | NR            |
| 400    | 1                        | NR            | 530    | 174                      | NR            | 660    | 118                      | NR            | 790    | 2                        | NR            | 920    | 0                        | NR            |
| 405    | 2                        | NR            | 535    | 180                      | NR            | 665    | 100                      | NR            | 795    | 2                        | NR            | 925    | 0                        | NR            |
| 410    | 3                        | NR            | 540    | 187                      | NR            | 670    | 94                       | NR            | 800    | 2                        | NR            | 930    | 0                        | NR            |
| 415    | 5                        | NR            | 545    | 193                      | NR            | 675    | 77                       | NR            | 805    | 1                        | NR            | 935    | 0                        | NR            |
| 420    | 9                        | NR            | 550    | 200                      | NR            | 680    | 67                       | NR            | 810    | 1                        | NR            | 940    | 0                        | NR            |
| 425    | 14                       | NR            | 555    | 208                      | NR            | 685    | 58                       | NR            | 815    | 1                        | NR            | 945    | 0                        | NR            |
| 430    | 23                       | NR            | 560    | 217                      | NR            | 690    | 50                       | NR            | 820    | 1                        | NR            | 950    | 0                        | NR            |
| 435    | 38                       | NR            | 565    | 226                      | NR            | 695    | 43                       | NR            | 825    | 1                        | NR            | 955    | 0                        | NR            |
| 440    | 61                       | NR            | 570    | 234                      | NR            | 700    | 37                       | NR            | 830    | 1                        | NR            | 960    | 0                        | NR            |
| 445    | 103                      | NR            | 575    | 243                      | NR            | 705    | 32                       | NR            | 835    | 1                        | NR            | 965    | 0                        | NR            |
| 450    | 135                      | NR            | 580    | 252                      | NR            | 710    | 28                       | NR            | 840    | 1                        | NR            | 970    | 0                        | NR            |
| 455    | 100                      | NR            | 585    | 260                      | NR            | 715    | 23                       | NR            | 845    | 0                        | NR            | 975    | 0                        | NR            |
| 460    | 72                       | NR            | 590    | 266                      | NR            | 720    | 20                       | NR            | 850    | 0                        | NR            | 980    | 0                        | NR            |
| 465    | 65                       | NR            | 595    | 268                      | NR            | 725    | 17                       | NR            | 855    | 0                        | NR            | 985    | 0                        | NR            |
| 470    | 51                       | NR            | 600    | 274                      | NR            | 730    | 15                       | NR            | 860    | 0                        | NR            | 990    | 0                        | NR            |
| 475    | 45                       | NR            | 605    | 278                      | NR            | 735    | 13                       | NR            | 865    | 0                        | NR            | 995    | 0                        | NR            |
| 480    | 48                       | NR            | 610    | 317                      | NR            | 740    | 11                       | NR            | 870    | 0                        | NR            | 1000   | 0                        | NR            |
| 485    | 57                       | NR            | 615    | 350                      | NR            | 745    | 9                        | NR            | 875    | 0                        | NR            |        |                          |               |

REPORT NUMBER: SP1-2504-407-1

### Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.38

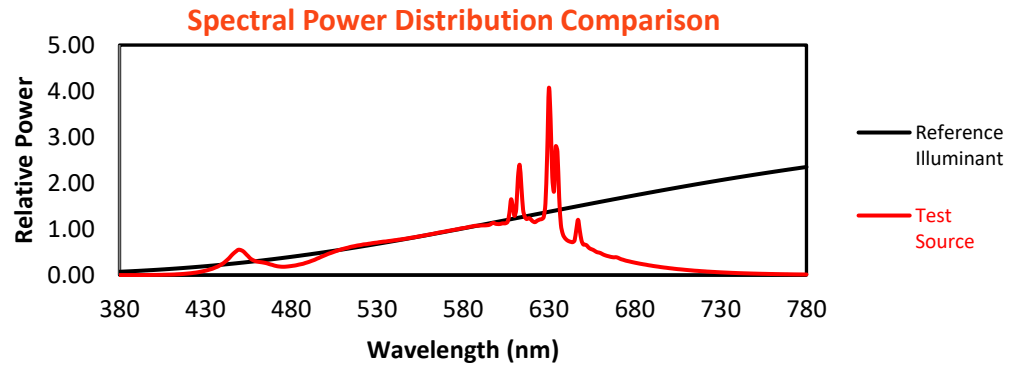
| λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) |
|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|
| 360       | 0                           | NR               | 490       | 70                          | NR               | 620       | 293                         | NR               | 750       | 8                           | NR               | 880       | 0                           | NR               |
| 365       | 0                           | NR               | 495       | 88                          | NR               | 625       | 299                         | NR               | 755       | 7                           | NR               | 885       | 0                           | NR               |
| 370       | 0                           | NR               | 500       | 108                         | NR               | 630       | 1000                        | NR               | 760       | 6                           | NR               | 890       | 0                           | NR               |
| 375       | 0                           | NR               | 505       | 125                         | NR               | 635       | 661                         | NR               | 765       | 5                           | NR               | 895       | 0                           | NR               |
| 380       | 0                           | NR               | 510       | 140                         | NR               | 640       | 192                         | NR               | 770       | 4                           | NR               | 900       | 0                           | NR               |
| 385       | 0                           | NR               | 515       | 152                         | NR               | 645       | 187                         | NR               | 775       | 4                           | NR               | 905       | 0                           | NR               |
| 390       | 0                           | NR               | 520       | 160                         | NR               | 650       | 164                         | NR               | 780       | 3                           | NR               | 910       | 0                           | NR               |
| 395       | 0                           | NR               | 525       | 168                         | NR               | 655       | 138                         | NR               | 785       | 3                           | NR               | 915       | 0                           | NR               |
| 400       | 1                           | NR               | 530       | 174                         | NR               | 660       | 118                         | NR               | 790       | 2                           | NR               | 920       | 0                           | NR               |
| 405       | 2                           | NR               | 535       | 180                         | NR               | 665       | 100                         | NR               | 795       | 2                           | NR               | 925       | 0                           | NR               |
| 410       | 3                           | NR               | 540       | 187                         | NR               | 670       | 94                          | NR               | 800       | 2                           | NR               | 930       | 0                           | NR               |
| 415       | 5                           | NR               | 545       | 193                         | NR               | 675       | 77                          | NR               | 805       | 1                           | NR               | 935       | 0                           | NR               |
| 420       | 9                           | NR               | 550       | 200                         | NR               | 680       | 67                          | NR               | 810       | 1                           | NR               | 940       | 0                           | NR               |
| 425       | 14                          | NR               | 555       | 208                         | NR               | 685       | 58                          | NR               | 815       | 1                           | NR               | 945       | 0                           | NR               |
| 430       | 23                          | NR               | 560       | 217                         | NR               | 690       | 50                          | NR               | 820       | 1                           | NR               | 950       | 0                           | NR               |
| 435       | 38                          | NR               | 565       | 226                         | NR               | 695       | 43                          | NR               | 825       | 1                           | NR               | 955       | 0                           | NR               |
| 440       | 61                          | NR               | 570       | 234                         | NR               | 700       | 37                          | NR               | 830       | 1                           | NR               | 960       | 0                           | NR               |
| 445       | 103                         | NR               | 575       | 243                         | NR               | 705       | 32                          | NR               | 835       | 1                           | NR               | 965       | 0                           | NR               |
| 450       | 135                         | NR               | 580       | 252                         | NR               | 710       | 28                          | NR               | 840       | 1                           | NR               | 970       | 0                           | NR               |
| 455       | 100                         | NR               | 585       | 260                         | NR               | 715       | 23                          | NR               | 845       | 0                           | NR               | 975       | 0                           | NR               |
| 460       | 72                          | NR               | 590       | 266                         | NR               | 720       | 20                          | NR               | 850       | 0                           | NR               | 980       | 0                           | NR               |
| 465       | 65                          | NR               | 595       | 268                         | NR               | 725       | 17                          | NR               | 855       | 0                           | NR               | 985       | 0                           | NR               |
| 470       | 51                          | NR               | 600       | 274                         | NR               | 730       | 15                          | NR               | 860       | 0                           | NR               | 990       | 0                           | NR               |
| 475       | 45                          | NR               | 605       | 278                         | NR               | 735       | 13                          | NR               | 865       | 0                           | NR               | 995       | 0                           | NR               |
| 480       | 48                          | NR               | 610       | 317                         | NR               | 740       | 11                          | NR               | 870       | 0                           | NR               | 1000      | 0                           | NR               |
| 485       | 57                          | NR               | 615       | 350                         | NR               | 745       | 9                           | NR               | 875       | 0                           | NR               |           |                             |                  |

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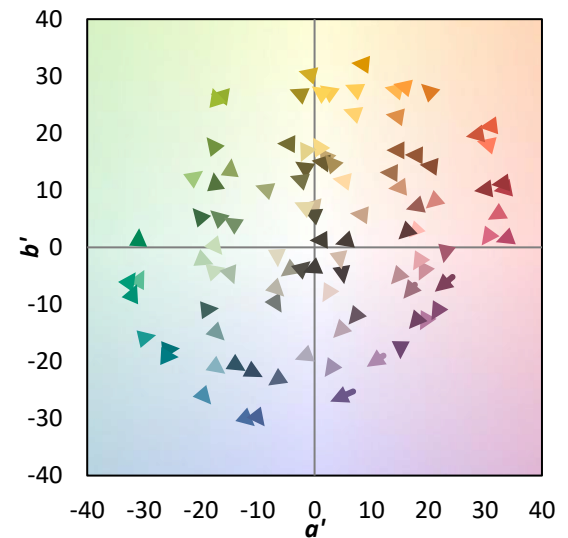
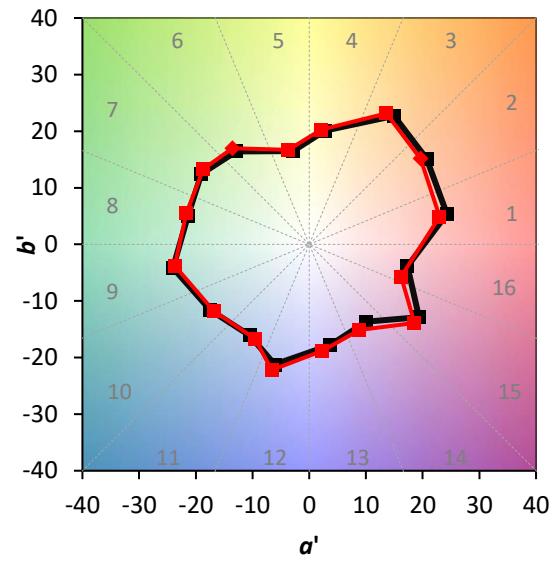
TM-30-18

### Summary

$R_f = 91.5$   
 $R_g = 100.2$   
 $CIE R_a = 93.2$   
 $R_9 = 55.9$

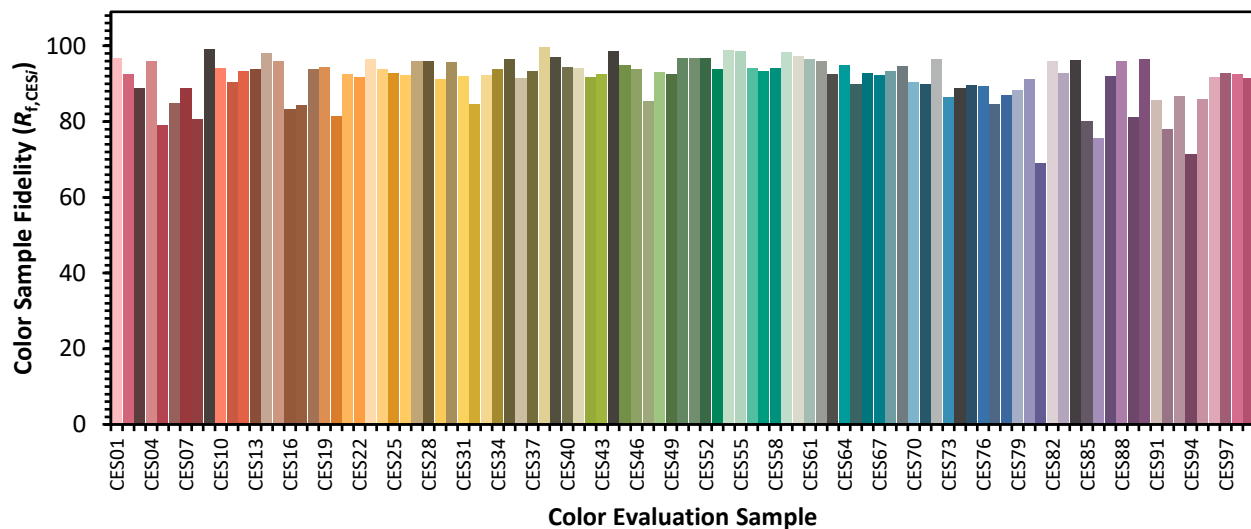


### Color Vector Graphics

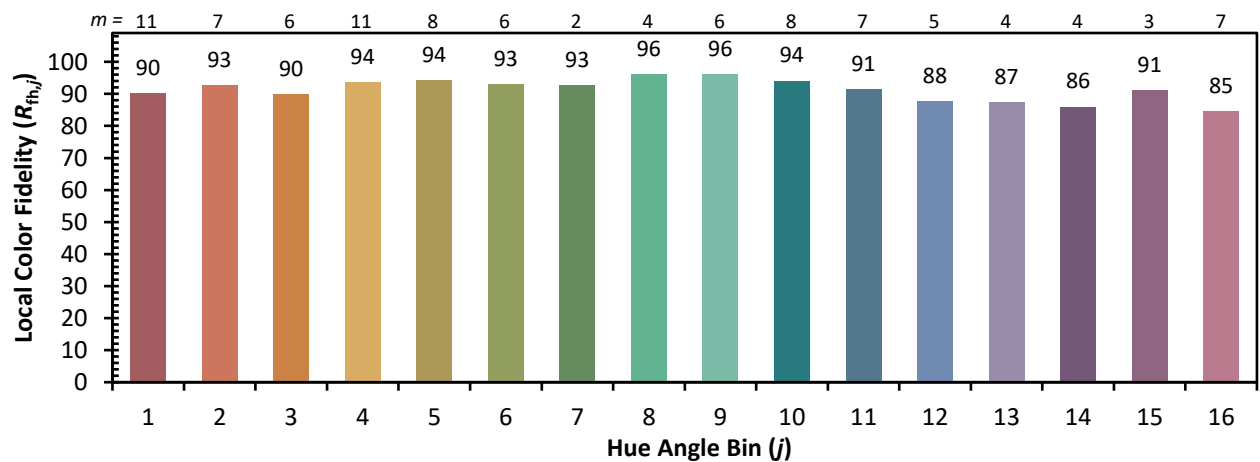


Individual Sample Fidelity Index ( $R_{f,i}$ )

|            |             |            |            |
|------------|-------------|------------|------------|
| CES01 = 86 | CES26 = 92  | CES51 = 97 | CES76 = 89 |
| CES02 = 64 | CES27 = 96  | CES52 = 97 | CES77 = 85 |
| CES03 = 32 | CES28 = 96  | CES53 = 94 | CES78 = 87 |
| CES04 = 70 | CES29 = 91  | CES54 = 99 | CES79 = 88 |
| CES05 = 51 | CES30 = 96  | CES55 = 99 | CES80 = 91 |
| CES06 = 51 | CES31 = 92  | CES56 = 94 | CES81 = 69 |
| CES07 = 44 | CES32 = 85  | CES57 = 93 | CES82 = 96 |
| CES08 = 43 | CES33 = 92  | CES58 = 94 | CES83 = 93 |
| CES09 = 29 | CES34 = 94  | CES59 = 98 | CES84 = 96 |
| CES10 = 77 | CES35 = 97  | CES60 = 97 | CES85 = 80 |
| CES11 = 59 | CES36 = 91  | CES61 = 97 | CES86 = 76 |
| CES12 = 66 | CES37 = 93  | CES62 = 96 | CES87 = 92 |
| CES13 = 44 | CES38 = 100 | CES63 = 93 | CES88 = 96 |
| CES14 = 74 | CES39 = 97  | CES64 = 95 | CES89 = 81 |
| CES15 = 72 | CES40 = 94  | CES65 = 90 | CES90 = 97 |
| CES16 = 48 | CES41 = 94  | CES66 = 93 | CES91 = 86 |
| CES17 = 50 | CES42 = 92  | CES67 = 92 | CES92 = 78 |
| CES18 = 57 | CES43 = 92  | CES68 = 93 | CES93 = 87 |
| CES19 = 72 | CES44 = 99  | CES69 = 95 | CES94 = 71 |
| CES20 = 68 | CES45 = 95  | CES70 = 90 | CES95 = 86 |
| CES21 = 87 | CES46 = 94  | CES71 = 90 | CES96 = 92 |
| CES22 = 79 | CES47 = 86  | CES72 = 96 | CES97 = 93 |
| CES23 = 92 | CES48 = 93  | CES73 = 86 | CES98 = 92 |
| CES24 = 91 | CES49 = 93  | CES74 = 89 | CES99 = 91 |
| CES25 = 72 | CES50 = 97  | CES75 = 90 |            |



Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)