

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: P1057396

Luminaire Tested: PRLX-CYL2W-DI-X-940-20L-SP-SP-U-S-X-X-BLAK

Issue Date: 8/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1057396  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2504-407-5, 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-940-20L-SP-SP-U-S-X-X-BLAK  
Description: PrentaLux 2-INCH CYLINDER  
DOWNLIGHT 1000 LUMENS, SPOT OPTIC (19-DEGREES)  
UPLIGHT 1000 LUMENS, SPOT OPTIC (19-DEGREES)  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

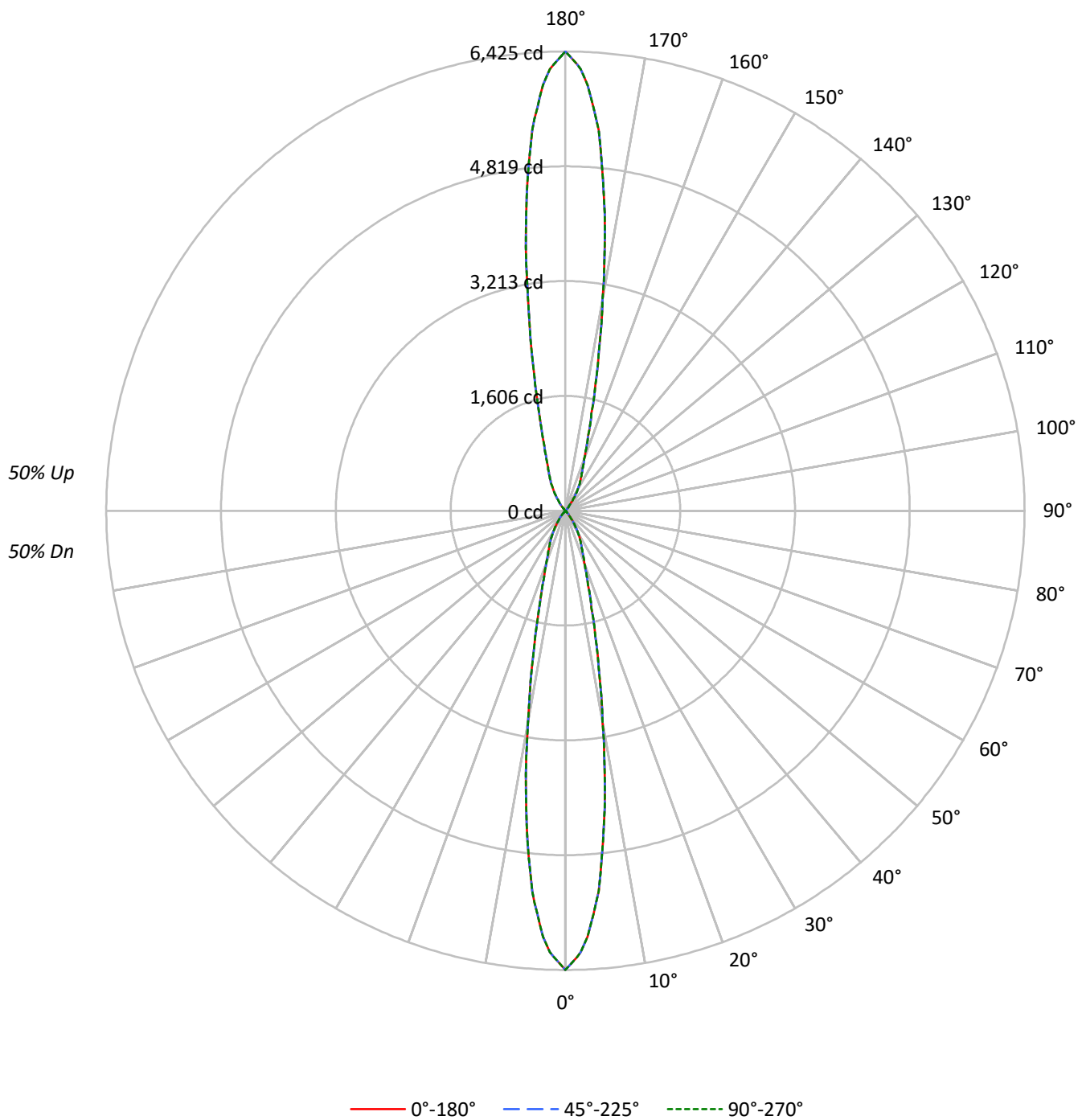
Lumens per Lamp: N/A  
Luminaire Lumens: 2449.6 lumens  
Efficiency: N/A  
Efficacy: 137.6 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.34  
Luminous Opening: Circular (Dia: 0.15' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 17.8  
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: P1057396

CATALOG NUMBER: PRLX-CYL2W-DI-X-940-20L-SP-SP-U-S-X-X-BLAK

### Luminous Intensity Polar Plot



TEST NUMBER: P1057396

CATALOG NUMBER: PRLX-CYL2W-DI-X-940-20L-SP-SP-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 | 50 | 30 | 10 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | 69 | 69 | 69 | 56 | 56 | 56 | 50 |    |    |
| 1   | 101 | 98  | 95  | 92  | 93 | 91 | 88 | 86 | 77 | 76 | 74 | 65 | 64 | 63 | 54 | 54 | 53 | 48 |    |    |
| 2   | 95  | 89  | 85  | 81  | 88 | 83 | 80 | 77 | 72 | 70 | 68 | 62 | 60 | 59 | 52 | 51 | 50 | 46 |    |    |
| 3   | 89  | 83  | 77  | 73  | 83 | 77 | 73 | 69 | 68 | 65 | 62 | 59 | 57 | 55 | 50 | 49 | 48 | 44 |    |    |
| 4   | 84  | 77  | 71  | 67  | 79 | 72 | 67 | 63 | 64 | 60 | 57 | 56 | 53 | 52 | 48 | 47 | 46 | 43 |    |    |
| 5   | 80  | 71  | 65  | 61  | 75 | 67 | 62 | 59 | 60 | 56 | 54 | 53 | 51 | 49 | 47 | 45 | 44 | 41 |    |    |
| 6   | 76  | 67  | 61  | 57  | 71 | 63 | 58 | 55 | 57 | 53 | 50 | 51 | 48 | 46 | 45 | 43 | 42 | 40 |    |    |
| 7   | 72  | 63  | 57  | 53  | 68 | 60 | 55 | 51 | 54 | 50 | 48 | 49 | 46 | 44 | 44 | 42 | 41 | 38 |    |    |
| 8   | 69  | 60  | 54  | 50  | 65 | 57 | 52 | 48 | 52 | 48 | 45 | 47 | 44 | 42 | 42 | 40 | 39 | 37 |    |    |
| 9   | 66  | 56  | 51  | 47  | 62 | 54 | 49 | 46 | 49 | 46 | 43 | 45 | 42 | 40 | 41 | 39 | 38 | 36 |    |    |
| 10  | 63  | 54  | 48  | 45  | 59 | 52 | 47 | 43 | 47 | 44 | 41 | 43 | 41 | 39 | 40 | 38 | 37 | 35 |    |    |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 4140332 | 4140332 | 4140332 |
| 5°  | 3456092 | 3456092 | 3456092 |
| 10° | 1970804 | 1970804 | 1970804 |
| 15° | 943353  | 943353  | 943353  |
| 20° | 528048  | 528048  | 528048  |
| 25° | 369953  | 369953  | 369953  |
| 30° | 256346  | 256346  | 256346  |
| 35° | 134603  | 134603  | 134603  |
| 40° | 49633   | 49633   | 49633   |
| 45° | 14764   | 14764   | 14764   |
| 50° | 6918    | 6918    | 6918    |
| 55° | 5168    | 5168    | 5168    |
| 60° | 4511    | 4511    | 4511    |
| 65° | 3507    | 3507    | 3507    |
| 70° | 2261    | 2261    | 2261    |
| 75° | 0       | 0       | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14764 cd/sqm

TEST NUMBER: P1057396

CATALOG NUMBER: PRLX-CYL2W-DI-X-940-20L-SP-SP-U-S-X-X-BLAK

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 430.3  | 17.6      |
| 10°-20°   | 418.9  | 17.1      |
| 20°-30°   | 241.1  | 9.8       |
| 30°-40°   | 111.2  | 4.5       |
| 40°-50°   | 16.9   | 0.7       |
| 50°-60°   | 4.0    | 0.2       |
| 60°-70°   | 2.0    | 0.1       |
| 70°-80°   | 0.5    | 0.0       |
| 80°-90°   | 0.0    | 0.0       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.5    | 0.0       |
| 110°-120° | 2.0    | 0.1       |
| 120°-130° | 4.0    | 0.2       |
| 130°-140° | 16.9   | 0.7       |
| 140°-150° | 111.2  | 4.5       |
| 150°-160° | 241.1  | 9.8       |
| 160°-170° | 418.9  | 17.1      |
| 170°-180° | 430.3  | 17.6      |
| 0°-30°    | 1090.3 | 44.5      |
| 0°-40°    | 1201.5 | 49.0      |
| 0°-60°    | 1222.3 | 49.9      |
| 0°-90°    | 1224.8 | 50.0      |
| 90°-120°  | 2.5    | 0.1       |
| 90°-150°  | 134.5  | 5.5       |
| 90°-180°  | 1225.0 | 50.0      |
| 0°-180°   | 2449.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 6425 | 6425  | 6425 | 6425  | 6425 |      |
| 5°   | 5343 | 5343  | 5343 | 5343  | 5343 | 430  |
| 15°  | 1414 | 1414  | 1414 | 1414  | 1414 | 419  |
| 25°  | 520  | 520   | 520  | 520   | 520  | 241  |
| 35°  | 171  | 171   | 171  | 171   | 171  | 111  |
| 45°  | 16   | 16    | 16   | 16    | 16   | 17   |
| 55°  | 5    | 5     | 5    | 5     | 5    | 4    |
| 65°  | 2    | 2     | 2    | 2     | 2    | 2    |
| 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    | 2    |
| 125° | 5    | 5     | 5    | 5     | 5    | 4    |
| 135° | 16   | 16    | 16   | 16    | 16   | 17   |
| 145° | 171  | 171   | 171  | 171   | 171  | 111  |
| 155° | 520  | 520   | 520  | 520   | 520  | 241  |
| 165° | 1414 | 1414  | 1414 | 1414  | 1414 | 419  |
| 175° | 5343 | 5343  | 5343 | 5343  | 5343 | 430  |
| 180° | 6425 | 6425  | 6425 | 6425  | 6425 |      |

TEST NUMBER: P1057396

CATALOG NUMBER: PRLX-CYL2W-DI-X-940-20L-SP-SP-U-S-X-X-BLAK

**CANDELA DISTRIBUTION (FULL):**

|     | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-----|--------|--------|--------|--------|--------|
| 0°  | 6424.9 | 6424.9 | 6424.9 | 6424.9 | 6424.9 |
| 1°  | 6303.2 | 6303.2 | 6303.2 | 6303.2 | 6303.2 |
| 2°  | 6181.6 | 6181.6 | 6181.6 | 6181.6 | 6181.6 |
| 3°  | 5965.2 | 5965.2 | 5965.2 | 5965.2 | 5965.2 |
| 4°  | 5653.9 | 5653.9 | 5653.9 | 5653.9 | 5653.9 |
| 5°  | 5342.7 | 5342.7 | 5342.7 | 5342.7 | 5342.7 |
| 6°  | 4888.1 | 4888.1 | 4888.1 | 4888.1 | 4888.1 |
| 7°  | 4433.5 | 4433.5 | 4433.5 | 4433.5 | 4433.5 |
| 8°  | 3967.3 | 3967.3 | 3967.3 | 3967.3 | 3967.3 |
| 9°  | 3489.6 | 3489.6 | 3489.6 | 3489.6 | 3489.6 |
| 10° | 3011.8 | 3011.8 | 3011.8 | 3011.8 | 3011.8 |
| 11° | 2630.8 | 2630.8 | 2630.8 | 2630.8 | 2630.8 |
| 12° | 2249.7 | 2249.7 | 2249.7 | 2249.7 | 2249.7 |
| 13° | 1930.1 | 1930.1 | 1930.1 | 1930.1 | 1930.1 |
| 14° | 1672.1 | 1672.1 | 1672.1 | 1672.1 | 1672.1 |
| 15° | 1414.0 | 1414.0 | 1414.0 | 1414.0 | 1414.0 |
| 16° | 1252.1 | 1252.1 | 1252.1 | 1252.1 | 1252.1 |
| 17° | 1090.3 | 1090.3 | 1090.3 | 1090.3 | 1090.3 |
| 18° | 961.5  | 961.5  | 961.5  | 961.5  | 961.5  |
| 19° | 865.7  | 865.7  | 865.7  | 865.7  | 865.7  |
| 20° | 770.0  | 770.0  | 770.0  | 770.0  | 770.0  |
| 21° | 711.3  | 711.3  | 711.3  | 711.3  | 711.3  |
| 22° | 652.5  | 652.5  | 652.5  | 652.5  | 652.5  |
| 23° | 602.6  | 602.6  | 602.6  | 602.6  | 602.6  |
| 24° | 561.4  | 561.4  | 561.4  | 561.4  | 561.4  |
| 25° | 520.3  | 520.3  | 520.3  | 520.3  | 520.3  |
| 26° | 485.1  | 485.1  | 485.1  | 485.1  | 485.1  |
| 27° | 450.0  | 450.0  | 450.0  | 450.0  | 450.0  |
| 28° | 414.8  | 414.8  | 414.8  | 414.8  | 414.8  |
| 29° | 379.7  | 379.7  | 379.7  | 379.7  | 379.7  |
| 30° | 344.5  | 344.5  | 344.5  | 344.5  | 344.5  |
| 31° | 308.0  | 308.0  | 308.0  | 308.0  | 308.0  |
| 32° | 271.5  | 271.5  | 271.5  | 271.5  | 271.5  |
| 33° | 236.8  | 236.8  | 236.8  | 236.8  | 236.8  |
| 34° | 203.9  | 203.9  | 203.9  | 203.9  | 203.9  |
| 35° | 171.1  | 171.1  | 171.1  | 171.1  | 171.1  |
| 36° | 144.8  | 144.8  | 144.8  | 144.8  | 144.8  |
| 37° | 118.4  | 118.4  | 118.4  | 118.4  | 118.4  |
| 38° | 96.0   | 96.0   | 96.0   | 96.0   | 96.0   |
| 39° | 77.5   | 77.5   | 77.5   | 77.5   | 77.5   |
| 40° | 59.0   | 59.0   | 59.0   | 59.0   | 59.0   |
| 41° | 47.9   | 47.9   | 47.9   | 47.9   | 47.9   |
| 42° | 36.8   | 36.8   | 36.8   | 36.8   | 36.8   |
| 43° | 28.2   | 28.2   | 28.2   | 28.2   | 28.2   |
| 44° | 22.2   | 22.2   | 22.2   | 22.2   | 22.2   |

TEST NUMBER: P1057396

CATALOG NUMBER: PRLX-CYL2W-DI-X-940-20L-SP-SP-U-S-X-X-BLAK

**CANDELA DISTRIBUTION (continued):**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  |
|-----|------|-------|------|-------|------|
| 45° | 16.2 | 16.2  | 16.2 | 16.2  | 16.2 |
| 46° | 13.4 | 13.4  | 13.4 | 13.4  | 13.4 |
| 47° | 10.6 | 10.6  | 10.6 | 10.6  | 10.6 |
| 48° | 8.8  | 8.8   | 8.8  | 8.8   | 8.8  |
| 49° | 7.9  | 7.9   | 7.9  | 7.9   | 7.9  |
| 50° | 6.9  | 6.9   | 6.9  | 6.9   | 6.9  |
| 51° | 6.0  | 6.0   | 6.0  | 6.0   | 6.0  |
| 52° | 5.1  | 5.1   | 5.1  | 5.1   | 5.1  |
| 53° | 4.6  | 4.6   | 4.6  | 4.6   | 4.6  |
| 54° | 4.6  | 4.6   | 4.6  | 4.6   | 4.6  |
| 55° | 4.6  | 4.6   | 4.6  | 4.6   | 4.6  |
| 56° | 4.2  | 4.2   | 4.2  | 4.2   | 4.2  |
| 57° | 3.7  | 3.7   | 3.7  | 3.7   | 3.7  |
| 58° | 3.5  | 3.5   | 3.5  | 3.5   | 3.5  |
| 59° | 3.5  | 3.5   | 3.5  | 3.5   | 3.5  |
| 60° | 3.5  | 3.5   | 3.5  | 3.5   | 3.5  |
| 61° | 3.0  | 3.0   | 3.0  | 3.0   | 3.0  |
| 62° | 2.5  | 2.5   | 2.5  | 2.5   | 2.5  |
| 63° | 2.3  | 2.3   | 2.3  | 2.3   | 2.3  |
| 64° | 2.3  | 2.3   | 2.3  | 2.3   | 2.3  |
| 65° | 2.3  | 2.3   | 2.3  | 2.3   | 2.3  |
| 66° | 1.8  | 1.8   | 1.8  | 1.8   | 1.8  |
| 67° | 1.4  | 1.4   | 1.4  | 1.4   | 1.4  |
| 68° | 1.2  | 1.2   | 1.2  | 1.2   | 1.2  |
| 69° | 1.2  | 1.2   | 1.2  | 1.2   | 1.2  |
| 70° | 1.2  | 1.2   | 1.2  | 1.2   | 1.2  |
| 71° | 1.2  | 1.2   | 1.2  | 1.2   | 1.2  |
| 72° | 1.2  | 1.2   | 1.2  | 1.2   | 1.2  |
| 73° | 0.9  | 0.9   | 0.9  | 0.9   | 0.9  |
| 74° | 0.5  | 0.5   | 0.5  | 0.5   | 0.5  |
| 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: P1057396

CATALOG NUMBER: PRLX-CYL2W-DI-X-940-20L-SP-SP-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° | 0.5  | 0.5   | 0.5  | 0.5   | 0.5  |
| 107° | 0.9  | 0.9   | 0.9  | 0.9   | 0.9  |
| 108° | 1.2  | 1.2   | 1.2  | 1.2   | 1.2  |
| 109° | 1.2  | 1.2   | 1.2  | 1.2   | 1.2  |
| 110° | 1.2  | 1.2   | 1.2  | 1.2   | 1.2  |
| 111° | 1.2  | 1.2   | 1.2  | 1.2   | 1.2  |
| 112° | 1.2  | 1.2   | 1.2  | 1.2   | 1.2  |
| 113° | 1.4  | 1.4   | 1.4  | 1.4   | 1.4  |
| 114° | 1.8  | 1.8   | 1.8  | 1.8   | 1.8  |
| 115° | 2.3  | 2.3   | 2.3  | 2.3   | 2.3  |
| 116° | 2.3  | 2.3   | 2.3  | 2.3   | 2.3  |
| 117° | 2.3  | 2.3   | 2.3  | 2.3   | 2.3  |
| 118° | 2.5  | 2.5   | 2.5  | 2.5   | 2.5  |
| 119° | 3.0  | 3.0   | 3.0  | 3.0   | 3.0  |
| 120° | 3.5  | 3.5   | 3.5  | 3.5   | 3.5  |
| 121° | 3.5  | 3.5   | 3.5  | 3.5   | 3.5  |
| 122° | 3.5  | 3.5   | 3.5  | 3.5   | 3.5  |
| 123° | 3.7  | 3.7   | 3.7  | 3.7   | 3.7  |
| 124° | 4.2  | 4.2   | 4.2  | 4.2   | 4.2  |
| 125° | 4.6  | 4.6   | 4.6  | 4.6   | 4.6  |
| 126° | 4.6  | 4.6   | 4.6  | 4.6   | 4.6  |
| 127° | 4.6  | 4.6   | 4.6  | 4.6   | 4.6  |
| 128° | 5.1  | 5.1   | 5.1  | 5.1   | 5.1  |
| 129° | 6.0  | 6.0   | 6.0  | 6.0   | 6.0  |
| 130° | 6.9  | 6.9   | 6.9  | 6.9   | 6.9  |
| 131° | 7.9  | 7.9   | 7.9  | 7.9   | 7.9  |
| 132° | 8.8  | 8.8   | 8.8  | 8.8   | 8.8  |
| 133° | 10.6 | 10.6  | 10.6 | 10.6  | 10.6 |
| 134° | 13.4 | 13.4  | 13.4 | 13.4  | 13.4 |



TEST NUMBER: P1057396

CATALOG NUMBER: PRLX-CYL2W-DI-X-940-20L-SP-SP-U-S-X-X-BLAK

**CANDELA DISTRIBUTION (continued):**

|      | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|------|--------|--------|--------|--------|--------|
| 135° | 16.2   | 16.2   | 16.2   | 16.2   | 16.2   |
| 136° | 22.2   | 22.2   | 22.2   | 22.2   | 22.2   |
| 137° | 28.2   | 28.2   | 28.2   | 28.2   | 28.2   |
| 138° | 36.8   | 36.8   | 36.8   | 36.8   | 36.8   |
| 139° | 47.9   | 47.9   | 47.9   | 47.9   | 47.9   |
| 140° | 59.0   | 59.0   | 59.0   | 59.0   | 59.0   |
| 141° | 77.5   | 77.5   | 77.5   | 77.5   | 77.5   |
| 142° | 96.0   | 96.0   | 96.0   | 96.0   | 96.0   |
| 143° | 118.4  | 118.4  | 118.4  | 118.4  | 118.4  |
| 144° | 144.8  | 144.8  | 144.8  | 144.8  | 144.8  |
| 145° | 171.1  | 171.1  | 171.1  | 171.1  | 171.1  |
| 146° | 203.9  | 203.9  | 203.9  | 203.9  | 203.9  |
| 147° | 236.8  | 236.8  | 236.8  | 236.8  | 236.8  |
| 148° | 271.5  | 271.5  | 271.5  | 271.5  | 271.5  |
| 149° | 308.0  | 308.0  | 308.0  | 308.0  | 308.0  |
| 150° | 344.5  | 344.5  | 344.5  | 344.5  | 344.5  |
| 151° | 379.7  | 379.7  | 379.7  | 379.7  | 379.7  |
| 152° | 414.8  | 414.8  | 414.8  | 414.8  | 414.8  |
| 153° | 450.0  | 450.0  | 450.0  | 450.0  | 450.0  |
| 154° | 485.1  | 485.1  | 485.1  | 485.1  | 485.1  |
| 155° | 520.3  | 520.3  | 520.3  | 520.3  | 520.3  |
| 156° | 561.4  | 561.4  | 561.4  | 561.4  | 561.4  |
| 157° | 602.6  | 602.6  | 602.6  | 602.6  | 602.6  |
| 158° | 652.5  | 652.5  | 652.5  | 652.5  | 652.5  |
| 159° | 711.3  | 711.3  | 711.3  | 711.3  | 711.3  |
| 160° | 770.0  | 770.0  | 770.0  | 770.0  | 770.0  |
| 161° | 865.7  | 865.7  | 865.7  | 865.7  | 865.7  |
| 162° | 961.5  | 961.5  | 961.5  | 961.5  | 961.5  |
| 163° | 1090.3 | 1090.3 | 1090.3 | 1090.3 | 1090.3 |
| 164° | 1252.1 | 1252.1 | 1252.1 | 1252.1 | 1252.1 |
| 165° | 1414.0 | 1414.0 | 1414.0 | 1414.0 | 1414.0 |
| 166° | 1672.1 | 1672.1 | 1672.1 | 1672.1 | 1672.1 |
| 167° | 1930.1 | 1930.1 | 1930.1 | 1930.1 | 1930.1 |
| 168° | 2249.7 | 2249.7 | 2249.7 | 2249.7 | 2249.7 |
| 169° | 2630.8 | 2630.8 | 2630.8 | 2630.8 | 2630.8 |
| 170° | 3011.8 | 3011.8 | 3011.8 | 3011.8 | 3011.8 |
| 171° | 3489.6 | 3489.6 | 3489.6 | 3489.6 | 3489.6 |
| 172° | 3967.3 | 3967.3 | 3967.3 | 3967.3 | 3967.3 |
| 173° | 4433.5 | 4433.5 | 4433.5 | 4433.5 | 4433.5 |
| 174° | 4888.1 | 4888.1 | 4888.1 | 4888.1 | 4888.1 |
| 175° | 5342.7 | 5342.7 | 5342.7 | 5342.7 | 5342.7 |
| 176° | 5653.9 | 5653.9 | 5653.9 | 5653.9 | 5653.9 |
| 177° | 5965.2 | 5965.2 | 5965.2 | 5965.2 | 5965.2 |
| 178° | 6181.6 | 6181.6 | 6181.6 | 6181.6 | 6181.6 |
| 179° | 6303.2 | 6303.2 | 6303.2 | 6303.2 | 6303.2 |



TEST NUMBER: P1057396  
CATALOG NUMBER: PRLX-CYL2W-DI-X-940-20L-SP-SP-U-S-X-X-BLAK

CANDELA DISTRIBUTION (continued):

|      | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|------|--------|--------|--------|--------|--------|
| 180° | 6424.9 | 6424.9 | 6424.9 | 6424.9 | 6424.9 |

TEST NUMBER: P1057396

CATALOG NUMBER: PRLX-CYL2W-DI-X-940-20L-SP-SP-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             | 0.35 | 0.72 | 1.33 | 2.62 | 0.00           | 0.35 | 0.72 | 1.33 | 2.62 |
|                 | 3H   | 0.19             | 0.75 | 1.21 | 1.75 | 3.06 | 0.19           | 0.75 | 1.21 | 1.75 | 3.06 |
|                 | 4H   | 0.15             | 0.69 | 1.18 | 1.68 | 3.00 | 0.15           | 0.69 | 1.18 | 1.68 | 3.00 |
|                 | 6H   | 0.04             | 0.53 | 1.07 | 1.53 | 2.86 | 0.04           | 0.53 | 1.07 | 1.53 | 2.86 |
|                 | 8H   | 0.00             | 0.44 | 1.02 | 1.45 | 2.78 | 0.00           | 0.44 | 1.02 | 1.45 | 2.78 |
|                 | 12H  | 0.00             | 0.35 | 0.95 | 1.36 | 2.70 | 0.00           | 0.35 | 0.95 | 1.36 | 2.70 |
| 4H              | 2H   | 0.01             | 0.55 | 1.05 | 1.54 | 2.86 | 0.01           | 0.55 | 1.05 | 1.54 | 2.86 |
|                 | 3H   | 0.69             | 1.13 | 1.73 | 2.16 | 3.49 | 0.69           | 1.13 | 1.73 | 2.16 | 3.49 |
|                 | 4H   | 0.63             | 1.04 | 1.67 | 2.05 | 3.41 | 0.63           | 1.04 | 1.67 | 2.05 | 3.41 |
|                 | 6H   | 0.52             | 0.86 | 1.57 | 1.90 | 3.25 | 0.52           | 0.86 | 1.57 | 1.90 | 3.25 |
|                 | 8H   | 0.45             | 0.77 | 1.50 | 1.80 | 3.17 | 0.45           | 0.77 | 1.50 | 1.80 | 3.17 |
|                 | 12H  | 0.38             | 0.66 | 1.44 | 1.71 | 3.08 | 0.38           | 0.66 | 1.44 | 1.71 | 3.08 |
| 8H              | 4H   | 0.52             | 0.84 | 1.57 | 1.87 | 3.23 | 0.52           | 0.84 | 1.57 | 1.87 | 3.23 |
|                 | 6H   | 0.40             | 0.66 | 1.47 | 1.73 | 3.09 | 0.40           | 0.66 | 1.47 | 1.73 | 3.09 |
|                 | 8H   | 0.34             | 0.56 | 1.42 | 1.62 | 3.00 | 0.34           | 0.56 | 1.42 | 1.62 | 3.00 |
|                 | 12H  | 0.27             | 0.46 | 1.35 | 1.52 | 2.94 | 0.27           | 0.46 | 1.35 | 1.52 | 2.94 |
| 12H             | 4H   | 0.44             | 0.73 | 1.51 | 1.78 | 3.14 | 0.44           | 0.73 | 1.51 | 1.78 | 3.14 |
|                 | 6H   | 0.34             | 0.56 | 1.42 | 1.62 | 3.00 | 0.34           | 0.56 | 1.42 | 1.62 | 3.00 |
|                 | 8H   | 0.27             | 0.46 | 1.35 | 1.52 | 2.94 | 0.27           | 0.46 | 1.35 | 1.52 | 2.94 |

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: SP1-2504-407-3

Test Date: 07/17/2025

Luminaire Tested: PRLX-CYL2-X-940-10L-FL-U-S-X-X-BLAK

Data in this report applies to families of products including PRLX-CYL2-X-940-10L-FL-U-S-X-X-BLAK

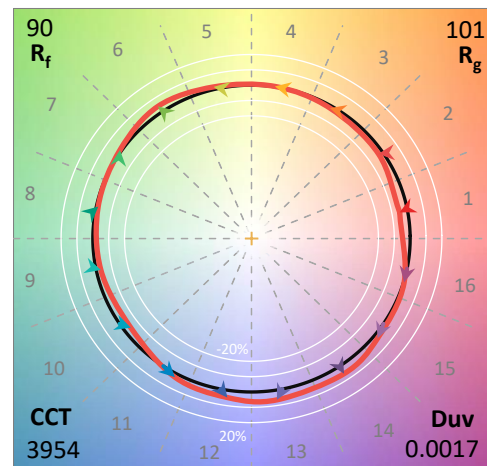
### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2504-407-3  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry:  $4\pi$   
 Issue Date: 07/17/2025  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: PrentaLux 3D Printing  
 Catalog Number: **PRLX-CYL2-X-940-10L-FL-U-S-X-X-BLAK**  
 Description: PrentaLux 2-INCH CYLINDER, BLACK TRIM, FLOOD OPTIC, 1000 LUMENS, 4000K

### Spectral Parameters

CCT (K): 3954  
 CIE  $u'$ : 0.2250  
 CIE  $v'$ : 0.5045  
 Duv: 0.0017  
 CIE x: 0.3837  
 CIE y: 0.3823  
 CIE z: 0.2340  
 Peak Wavelength (nm): 630  
 Dominant Wavelength (nm): 578  
 Purity: 29.89095  
 R<sub>f</sub>: 90.1  
 R<sub>g</sub>: 100.8

CRI (Ra): 91.7  
 R1: 93.4  
 R2: 92.6  
 R3: 90.2  
 R4: 93.3  
 R5: 91.9  
 R6: 90.2  
 R7: 94.3  
 R8: 88.1  
 R9: 64.7  
 R10: 80.5  
 R11: 93.0  
 R12: 70.7  
 R13: 92.6  
 R14: 93.6  
 R15: 90.8



### Test Conditions

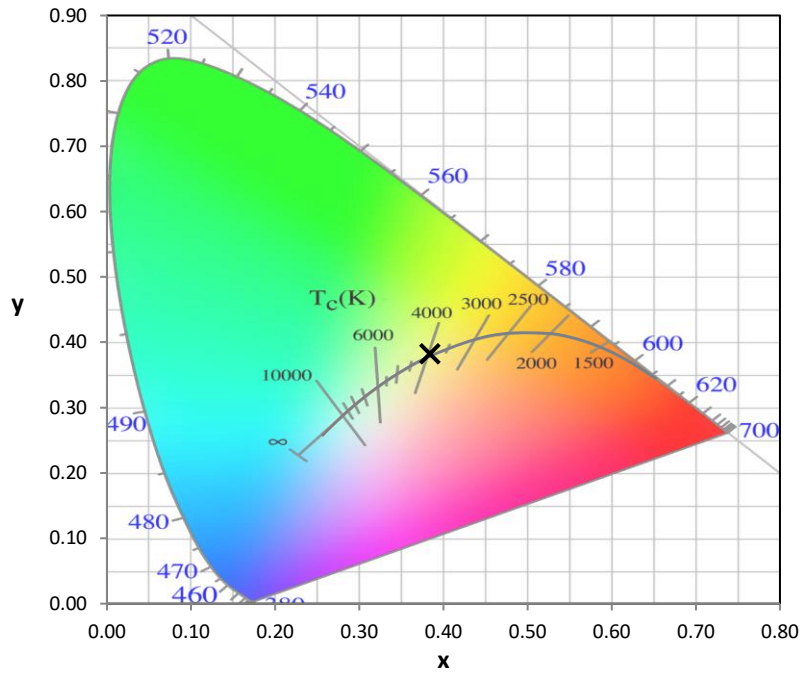
Stabilization Time: 52M  
 Operation Time: 1H 52M  
 Sphere Temperature (°C): 24.0

REPORT NUMBER: SP1-2504-407-3

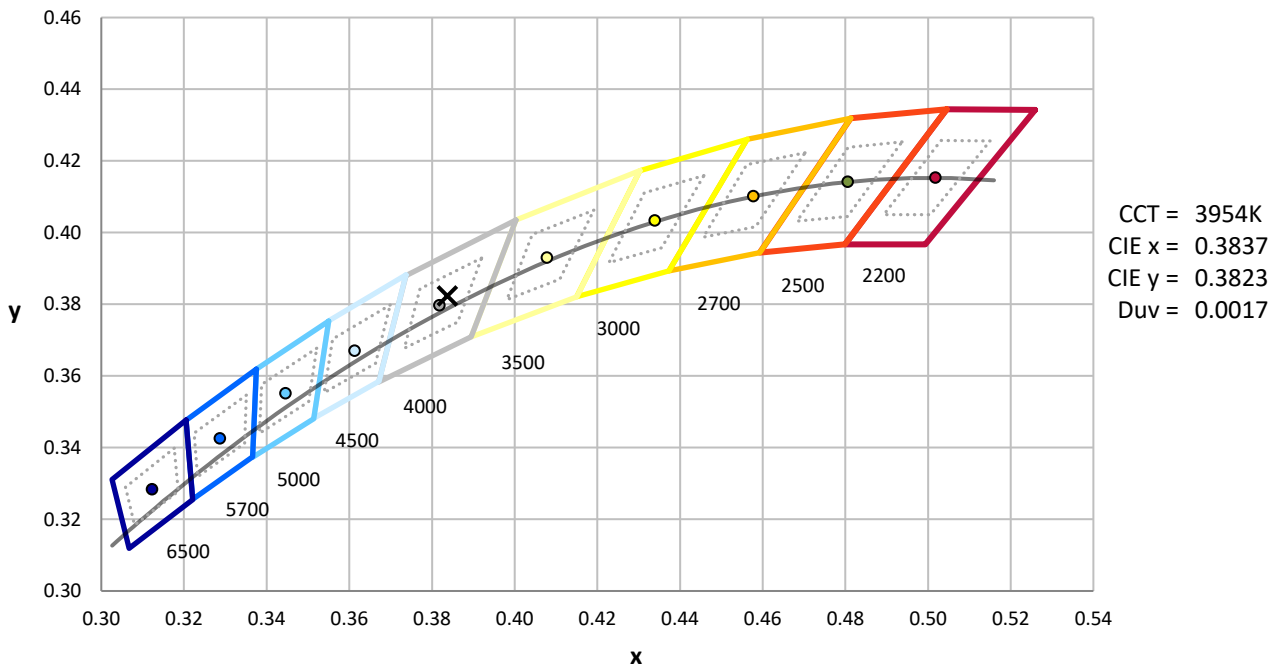
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| 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           |

REPORT NUMBER: SP1-2504-407-3

**CIE 1931 Chromaticity Diagram**



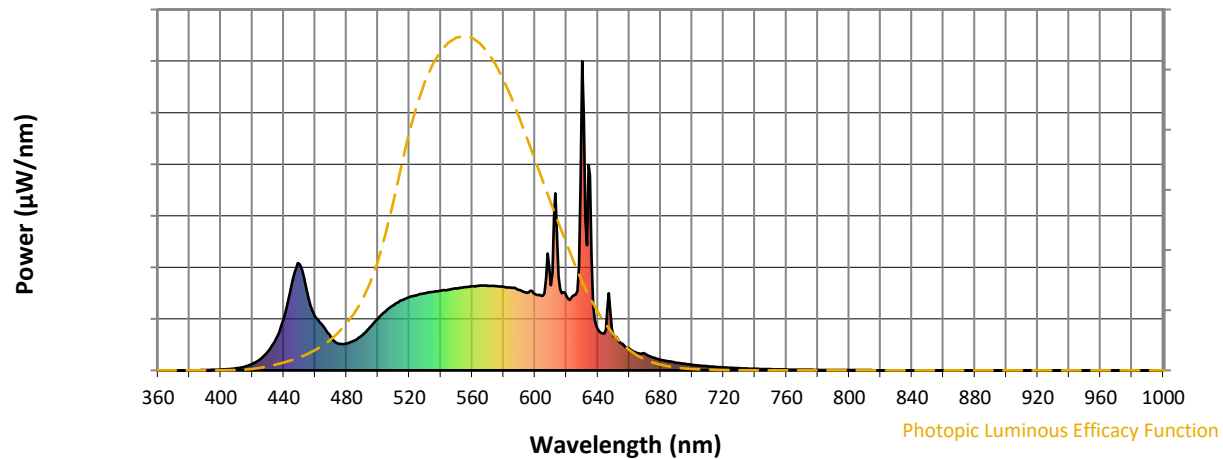
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2504-407-3

### Photopic Flux vs. Wavelength



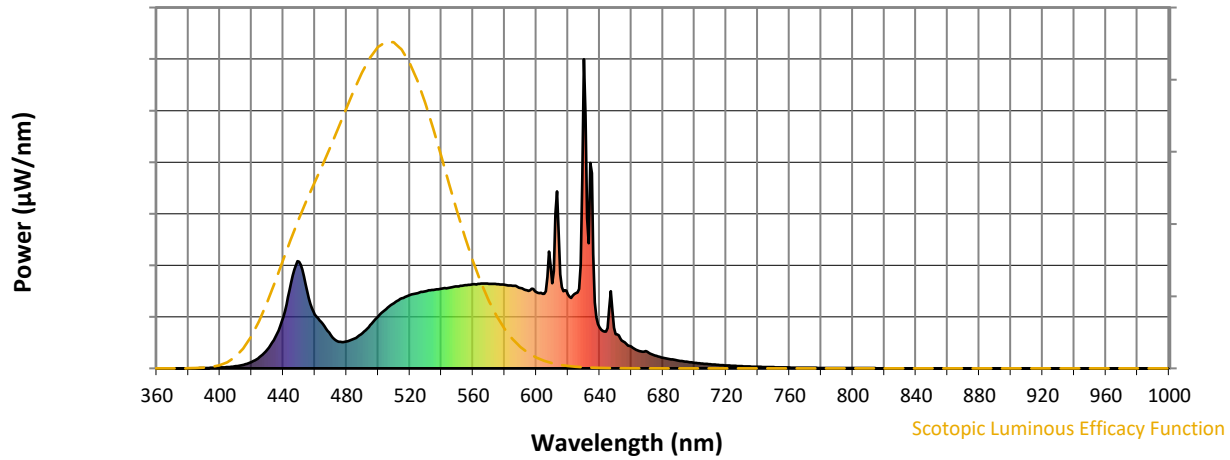
### Photopic Lumens: NR

| λ (nm) | Power W <sup>λ</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>λ</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>λ</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>λ</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>λ</sup> /nm | Lumens (φ/nm) |
|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|
| 360    | 0                        | NR            | 490    | 114                      | NR            | 620    | 240                      | NR            | 750    | 4                        | NR            | 880    | 0                        | NR            |
| 365    | 0                        | NR            | 495    | 140                      | NR            | 625    | 244                      | NR            | 755    | 3                        | NR            | 885    | 0                        | NR            |
| 370    | 0                        | NR            | 500    | 168                      | NR            | 630    | 1000                     | NR            | 760    | 3                        | NR            | 890    | 0                        | NR            |
| 375    | 0                        | NR            | 505    | 192                      | NR            | 635    | 631                      | NR            | 765    | 2                        | NR            | 895    | 0                        | NR            |
| 380    | 0                        | NR            | 510    | 212                      | NR            | 640    | 133                      | NR            | 770    | 2                        | NR            | 900    | 0                        | NR            |
| 385    | 0                        | NR            | 515    | 227                      | NR            | 645    | 131                      | NR            | 775    | 2                        | NR            | 905    | 0                        | NR            |
| 390    | 1                        | NR            | 520    | 237                      | NR            | 650    | 111                      | NR            | 780    | 1                        | NR            | 910    | 0                        | NR            |
| 395    | 2                        | NR            | 525    | 244                      | NR            | 655    | 87                       | NR            | 785    | 1                        | NR            | 915    | 0                        | NR            |
| 400    | 3                        | NR            | 530    | 249                      | NR            | 660    | 71                       | NR            | 790    | 1                        | NR            | 920    | 0                        | NR            |
| 405    | 4                        | NR            | 535    | 254                      | NR            | 665    | 56                       | NR            | 795    | 1                        | NR            | 925    | 0                        | NR            |
| 410    | 7                        | NR            | 540    | 257                      | NR            | 670    | 54                       | NR            | 800    | 1                        | NR            | 930    | 0                        | NR            |
| 415    | 12                       | NR            | 545    | 261                      | NR            | 675    | 41                       | NR            | 805    | 1                        | NR            | 935    | 0                        | NR            |
| 420    | 21                       | NR            | 550    | 265                      | NR            | 680    | 35                       | NR            | 810    | 1                        | NR            | 940    | 0                        | NR            |
| 425    | 36                       | NR            | 555    | 269                      | NR            | 685    | 29                       | NR            | 815    | 1                        | NR            | 945    | 0                        | NR            |
| 430    | 61                       | NR            | 560    | 273                      | NR            | 690    | 25                       | NR            | 820    | 0                        | NR            | 950    | 0                        | NR            |
| 435    | 101                      | NR            | 565    | 274                      | NR            | 695    | 21                       | NR            | 825    | 0                        | NR            | 955    | 0                        | NR            |
| 440    | 167                      | NR            | 570    | 273                      | NR            | 700    | 18                       | NR            | 830    | 0                        | NR            | 960    | 0                        | NR            |
| 445    | 278                      | NR            | 575    | 272                      | NR            | 705    | 15                       | NR            | 835    | 0                        | NR            | 965    | 0                        | NR            |
| 450    | 345                      | NR            | 580    | 270                      | NR            | 710    | 13                       | NR            | 840    | 0                        | NR            | 970    | 0                        | NR            |
| 455    | 250                      | NR            | 585    | 267                      | NR            | 715    | 11                       | NR            | 845    | 0                        | NR            | 975    | 0                        | NR            |
| 460    | 174                      | NR            | 590    | 260                      | NR            | 720    | 10                       | NR            | 850    | 0                        | NR            | 980    | 0                        | NR            |
| 465    | 144                      | NR            | 595    | 251                      | NR            | 725    | 8                        | NR            | 855    | 0                        | NR            | 985    | 0                        | NR            |
| 470    | 107                      | NR            | 600    | 246                      | NR            | 730    | 7                        | NR            | 860    | 0                        | NR            | 990    | 0                        | NR            |
| 475    | 86                       | NR            | 605    | 241                      | NR            | 735    | 6                        | NR            | 865    | 0                        | NR            | 995    | 0                        | NR            |
| 480    | 87                       | NR            | 610    | 276                      | NR            | 740    | 5                        | NR            | 870    | 0                        | NR            | 1000   | 0                        | NR            |
| 485    | 96                       | NR            | 615    | 304                      | NR            | 745    | 4                        | NR            | 875    | 0                        | NR            |        |                          |               |



REPORT NUMBER: SP1-2504-407-3

### Scotopic Flux vs. Wavelength



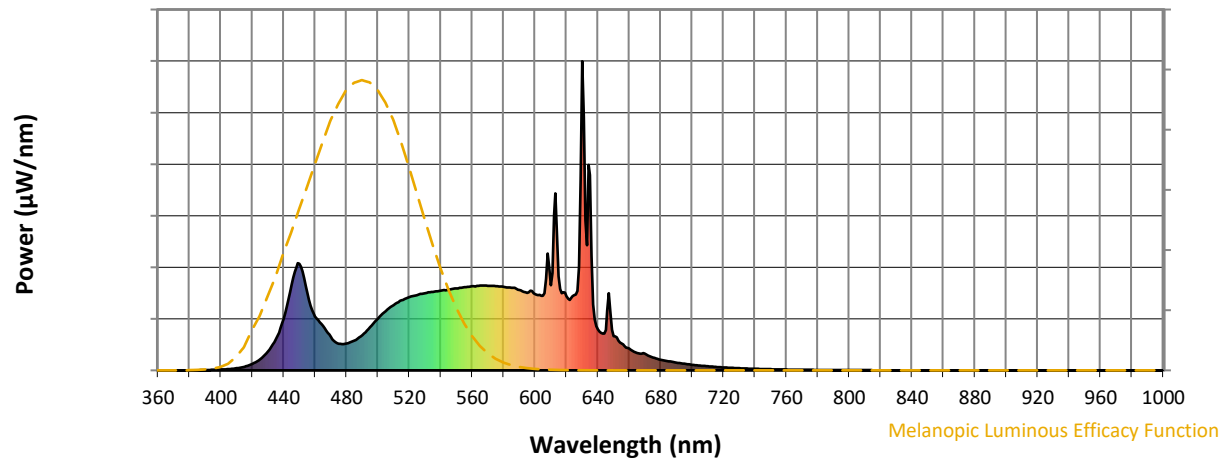
Scotopic Lumens: NR

S/P: 1.72

| 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    | 114                      | NR            | 620    | 240                      | NR            | 750    | 4                        | NR            | 880    | 0                        | NR            |
| 365    | 0                        | NR            | 495    | 140                      | NR            | 625    | 244                      | NR            | 755    | 3                        | NR            | 885    | 0                        | NR            |
| 370    | 0                        | NR            | 500    | 168                      | NR            | 630    | 1000                     | NR            | 760    | 3                        | NR            | 890    | 0                        | NR            |
| 375    | 0                        | NR            | 505    | 192                      | NR            | 635    | 631                      | NR            | 765    | 2                        | NR            | 895    | 0                        | NR            |
| 380    | 0                        | NR            | 510    | 212                      | NR            | 640    | 133                      | NR            | 770    | 2                        | NR            | 900    | 0                        | NR            |
| 385    | 0                        | NR            | 515    | 227                      | NR            | 645    | 131                      | NR            | 775    | 2                        | NR            | 905    | 0                        | NR            |
| 390    | 1                        | NR            | 520    | 237                      | NR            | 650    | 111                      | NR            | 780    | 1                        | NR            | 910    | 0                        | NR            |
| 395    | 2                        | NR            | 525    | 244                      | NR            | 655    | 87                       | NR            | 785    | 1                        | NR            | 915    | 0                        | NR            |
| 400    | 3                        | NR            | 530    | 249                      | NR            | 660    | 71                       | NR            | 790    | 1                        | NR            | 920    | 0                        | NR            |
| 405    | 4                        | NR            | 535    | 254                      | NR            | 665    | 56                       | NR            | 795    | 1                        | NR            | 925    | 0                        | NR            |
| 410    | 7                        | NR            | 540    | 257                      | NR            | 670    | 54                       | NR            | 800    | 1                        | NR            | 930    | 0                        | NR            |
| 415    | 12                       | NR            | 545    | 261                      | NR            | 675    | 41                       | NR            | 805    | 1                        | NR            | 935    | 0                        | NR            |
| 420    | 21                       | NR            | 550    | 265                      | NR            | 680    | 35                       | NR            | 810    | 1                        | NR            | 940    | 0                        | NR            |
| 425    | 36                       | NR            | 555    | 269                      | NR            | 685    | 29                       | NR            | 815    | 1                        | NR            | 945    | 0                        | NR            |
| 430    | 61                       | NR            | 560    | 273                      | NR            | 690    | 25                       | NR            | 820    | 0                        | NR            | 950    | 0                        | NR            |
| 435    | 101                      | NR            | 565    | 274                      | NR            | 695    | 21                       | NR            | 825    | 0                        | NR            | 955    | 0                        | NR            |
| 440    | 167                      | NR            | 570    | 273                      | NR            | 700    | 18                       | NR            | 830    | 0                        | NR            | 960    | 0                        | NR            |
| 445    | 278                      | NR            | 575    | 272                      | NR            | 705    | 15                       | NR            | 835    | 0                        | NR            | 965    | 0                        | NR            |
| 450    | 345                      | NR            | 580    | 270                      | NR            | 710    | 13                       | NR            | 840    | 0                        | NR            | 970    | 0                        | NR            |
| 455    | 250                      | NR            | 585    | 267                      | NR            | 715    | 11                       | NR            | 845    | 0                        | NR            | 975    | 0                        | NR            |
| 460    | 174                      | NR            | 590    | 260                      | NR            | 720    | 10                       | NR            | 850    | 0                        | NR            | 980    | 0                        | NR            |
| 465    | 144                      | NR            | 595    | 251                      | NR            | 725    | 8                        | NR            | 855    | 0                        | NR            | 985    | 0                        | NR            |
| 470    | 107                      | NR            | 600    | 246                      | NR            | 730    | 7                        | NR            | 860    | 0                        | NR            | 990    | 0                        | NR            |
| 475    | 86                       | NR            | 605    | 241                      | NR            | 735    | 6                        | NR            | 865    | 0                        | NR            | 995    | 0                        | NR            |
| 480    | 87                       | NR            | 610    | 276                      | NR            | 740    | 5                        | NR            | 870    | 0                        | NR            | 1000   | 0                        | NR            |
| 485    | 96                       | NR            | 615    | 304                      | NR            | 745    | 4                        | NR            | 875    | 0                        | NR            |        |                          |               |

REPORT NUMBER: SP1-2504-407-3

### Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.49

| λ (nm) | Power W <sup>λ</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>λ</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>λ</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>λ</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>λ</sup> /nm | Lumens (φ/nm) |
|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|
| 360    | 0                        | NR            | 490    | 114                      | NR            | 620    | 240                      | NR            | 750    | 4                        | NR            | 880    | 0                        | NR            |
| 365    | 0                        | NR            | 495    | 140                      | NR            | 625    | 244                      | NR            | 755    | 3                        | NR            | 885    | 0                        | NR            |
| 370    | 0                        | NR            | 500    | 168                      | NR            | 630    | 1000                     | NR            | 760    | 3                        | NR            | 890    | 0                        | NR            |
| 375    | 0                        | NR            | 505    | 192                      | NR            | 635    | 631                      | NR            | 765    | 2                        | NR            | 895    | 0                        | NR            |
| 380    | 0                        | NR            | 510    | 212                      | NR            | 640    | 133                      | NR            | 770    | 2                        | NR            | 900    | 0                        | NR            |
| 385    | 0                        | NR            | 515    | 227                      | NR            | 645    | 131                      | NR            | 775    | 2                        | NR            | 905    | 0                        | NR            |
| 390    | 1                        | NR            | 520    | 237                      | NR            | 650    | 111                      | NR            | 780    | 1                        | NR            | 910    | 0                        | NR            |
| 395    | 2                        | NR            | 525    | 244                      | NR            | 655    | 87                       | NR            | 785    | 1                        | NR            | 915    | 0                        | NR            |
| 400    | 3                        | NR            | 530    | 249                      | NR            | 660    | 71                       | NR            | 790    | 1                        | NR            | 920    | 0                        | NR            |
| 405    | 4                        | NR            | 535    | 254                      | NR            | 665    | 56                       | NR            | 795    | 1                        | NR            | 925    | 0                        | NR            |
| 410    | 7                        | NR            | 540    | 257                      | NR            | 670    | 54                       | NR            | 800    | 1                        | NR            | 930    | 0                        | NR            |
| 415    | 12                       | NR            | 545    | 261                      | NR            | 675    | 41                       | NR            | 805    | 1                        | NR            | 935    | 0                        | NR            |
| 420    | 21                       | NR            | 550    | 265                      | NR            | 680    | 35                       | NR            | 810    | 1                        | NR            | 940    | 0                        | NR            |
| 425    | 36                       | NR            | 555    | 269                      | NR            | 685    | 29                       | NR            | 815    | 1                        | NR            | 945    | 0                        | NR            |
| 430    | 61                       | NR            | 560    | 273                      | NR            | 690    | 25                       | NR            | 820    | 0                        | NR            | 950    | 0                        | NR            |
| 435    | 101                      | NR            | 565    | 274                      | NR            | 695    | 21                       | NR            | 825    | 0                        | NR            | 955    | 0                        | NR            |
| 440    | 167                      | NR            | 570    | 273                      | NR            | 700    | 18                       | NR            | 830    | 0                        | NR            | 960    | 0                        | NR            |
| 445    | 278                      | NR            | 575    | 272                      | NR            | 705    | 15                       | NR            | 835    | 0                        | NR            | 965    | 0                        | NR            |
| 450    | 345                      | NR            | 580    | 270                      | NR            | 710    | 13                       | NR            | 840    | 0                        | NR            | 970    | 0                        | NR            |
| 455    | 250                      | NR            | 585    | 267                      | NR            | 715    | 11                       | NR            | 845    | 0                        | NR            | 975    | 0                        | NR            |
| 460    | 174                      | NR            | 590    | 260                      | NR            | 720    | 10                       | NR            | 850    | 0                        | NR            | 980    | 0                        | NR            |
| 465    | 144                      | NR            | 595    | 251                      | NR            | 725    | 8                        | NR            | 855    | 0                        | NR            | 985    | 0                        | NR            |
| 470    | 107                      | NR            | 600    | 246                      | NR            | 730    | 7                        | NR            | 860    | 0                        | NR            | 990    | 0                        | NR            |
| 475    | 86                       | NR            | 605    | 241                      | NR            | 735    | 6                        | NR            | 865    | 0                        | NR            | 995    | 0                        | NR            |
| 480    | 87                       | NR            | 610    | 276                      | NR            | 740    | 5                        | NR            | 870    | 0                        | NR            | 1000   | 0                        | NR            |
| 485    | 96                       | NR            | 615    | 304                      | NR            | 745    | 4                        | NR            | 875    | 0                        | NR            |        |                          |               |

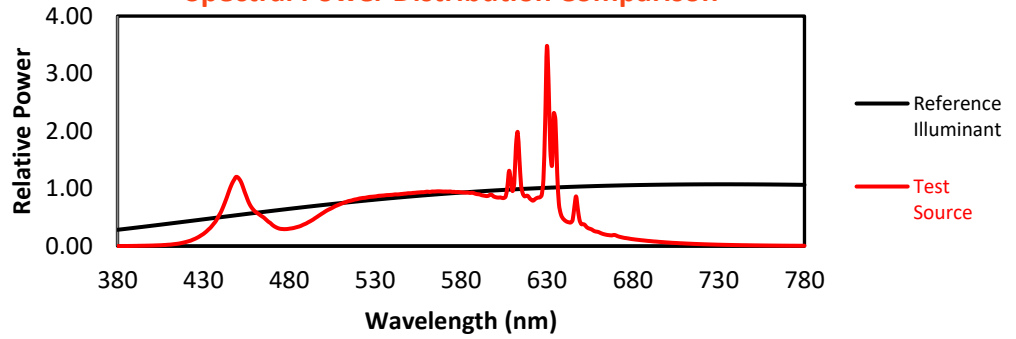
REPORT NUMBER: SP1-2504-407-3

TM-30-18

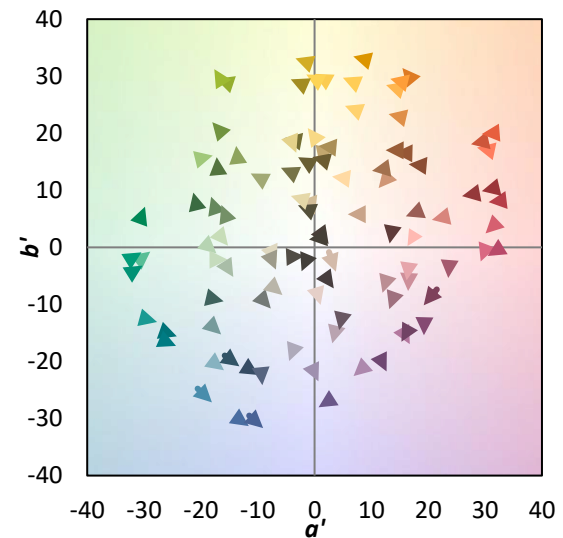
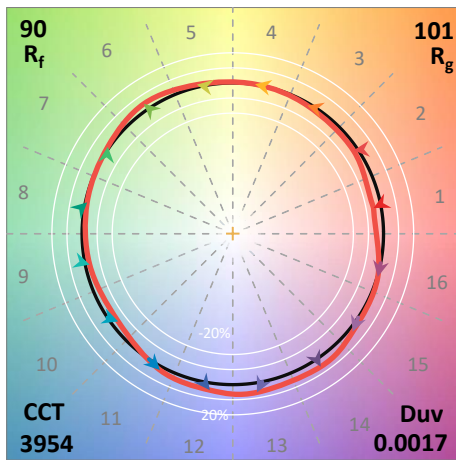
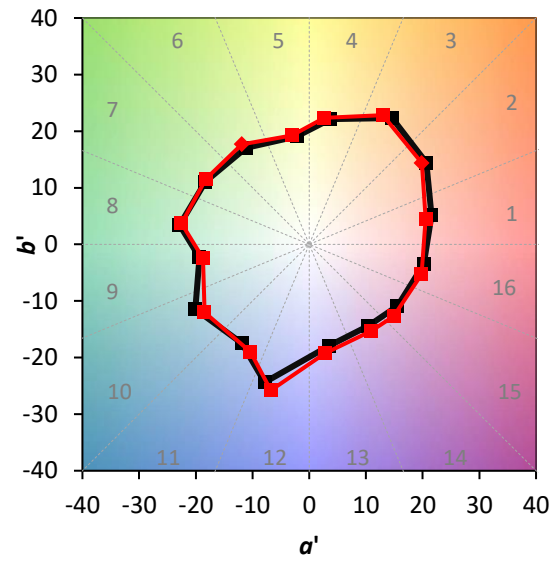
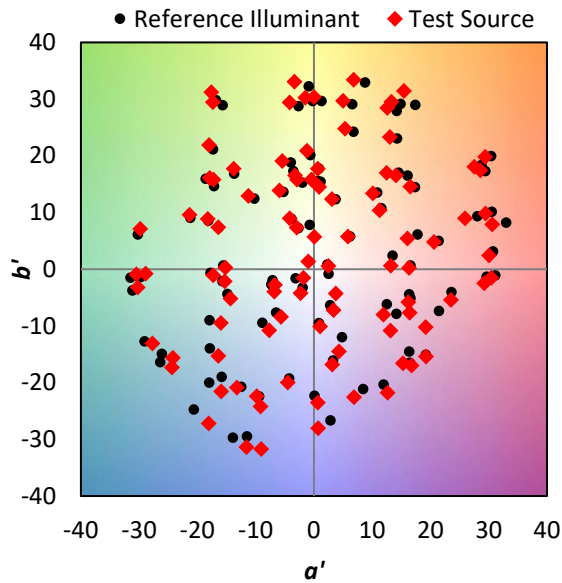
### Summary

$R_f = 90.1$   
 $R_g = 100.8$   
 $CIE R_a = 91.7$   
 $R_g = 64.7$

### Spectral Power Distribution Comparison

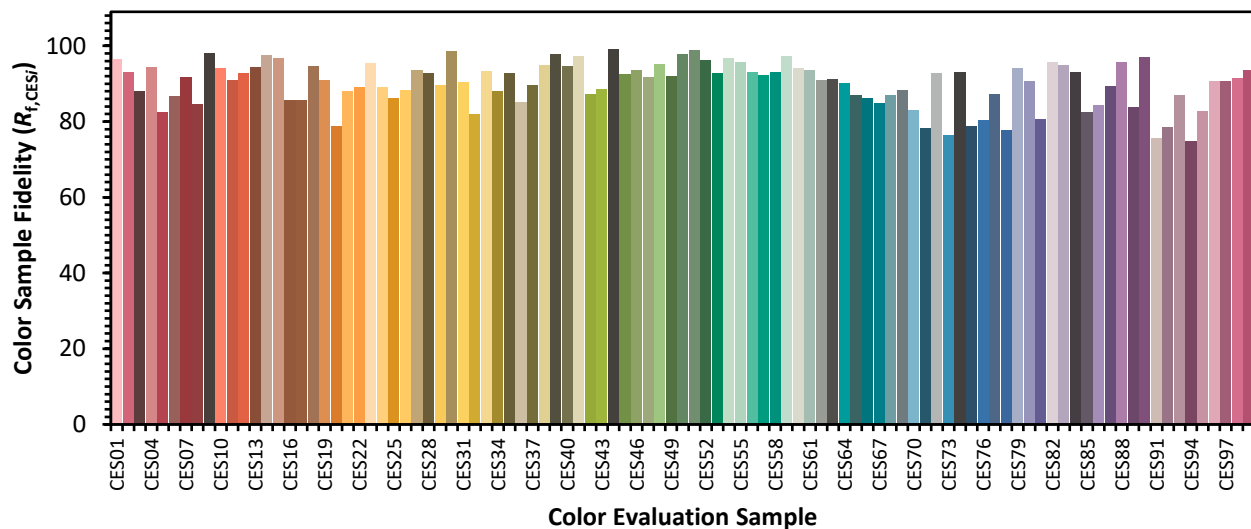


### Color Vector Graphics

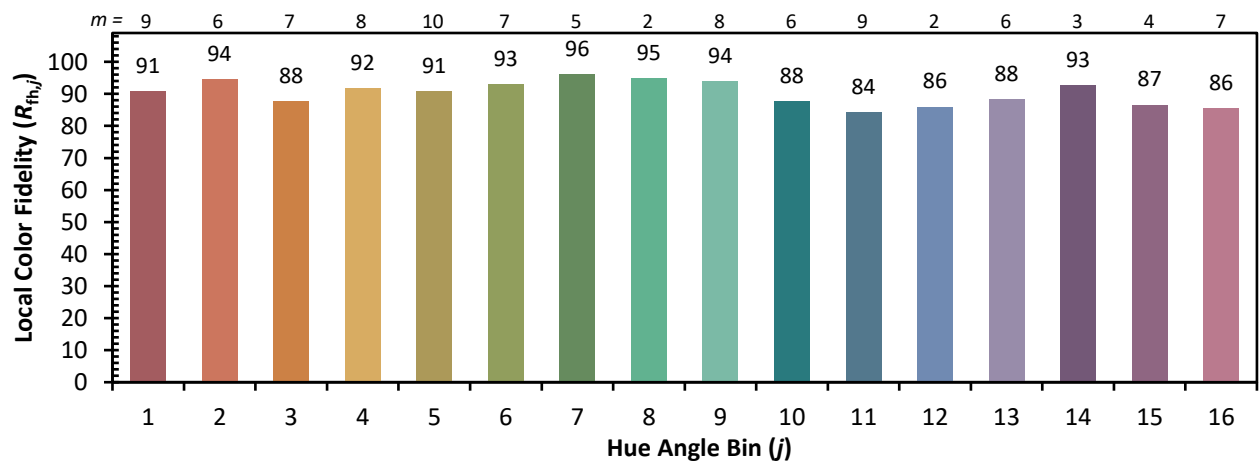
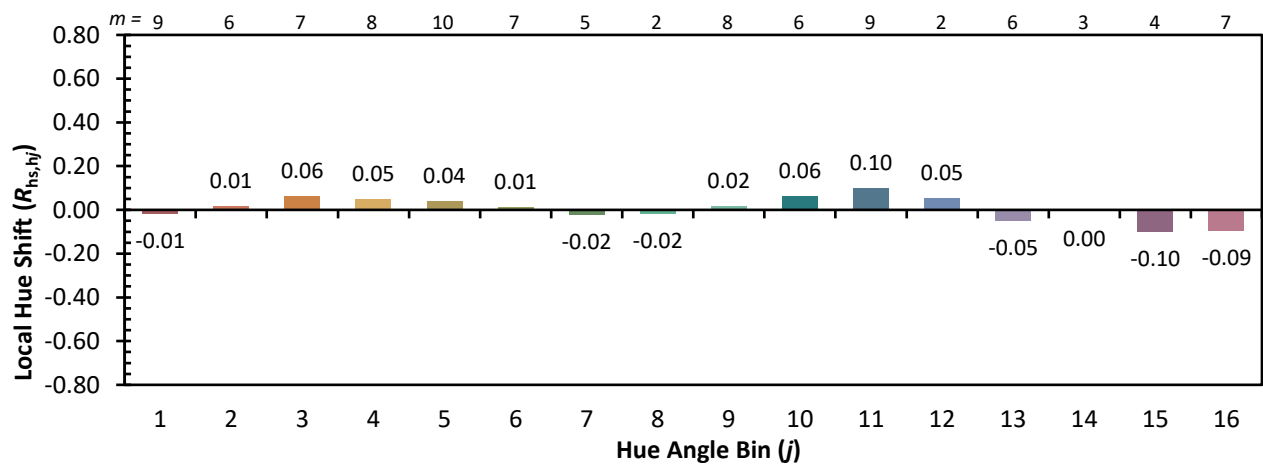
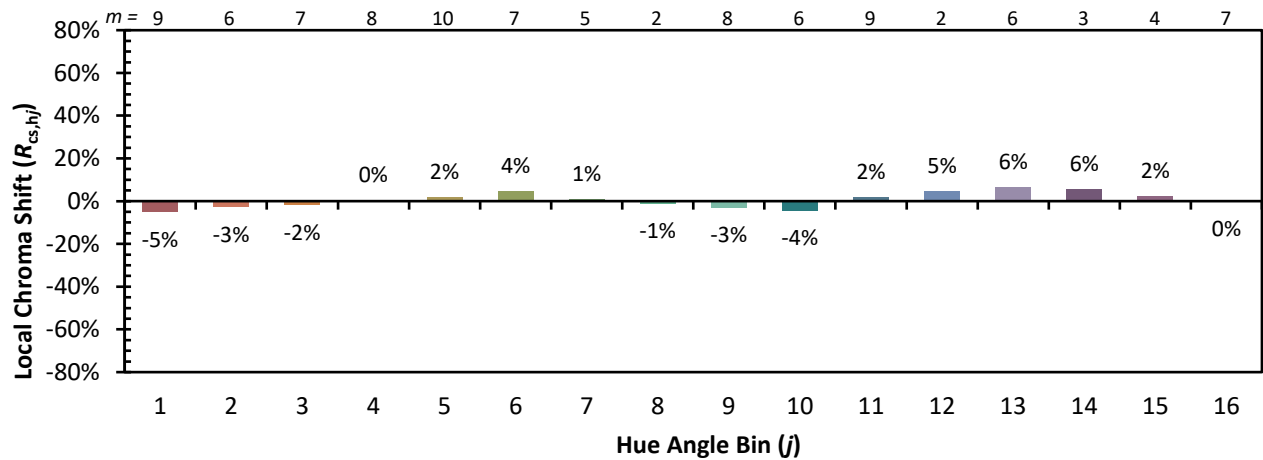


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

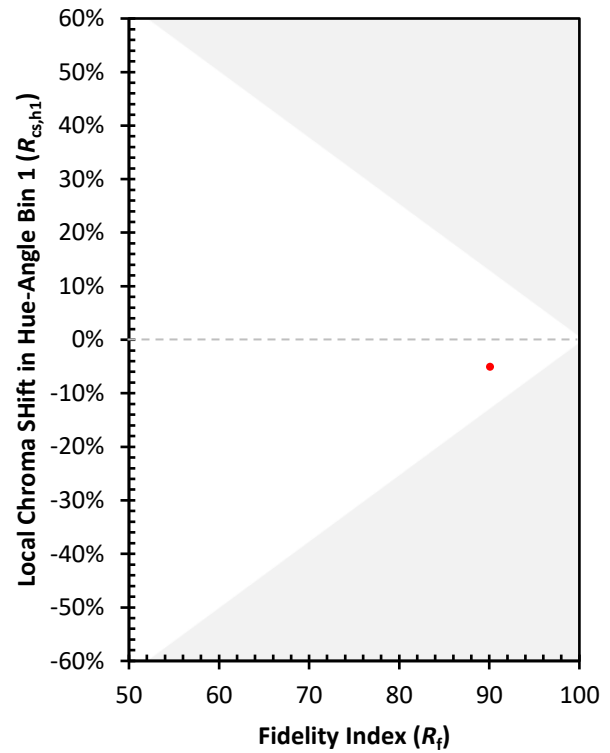
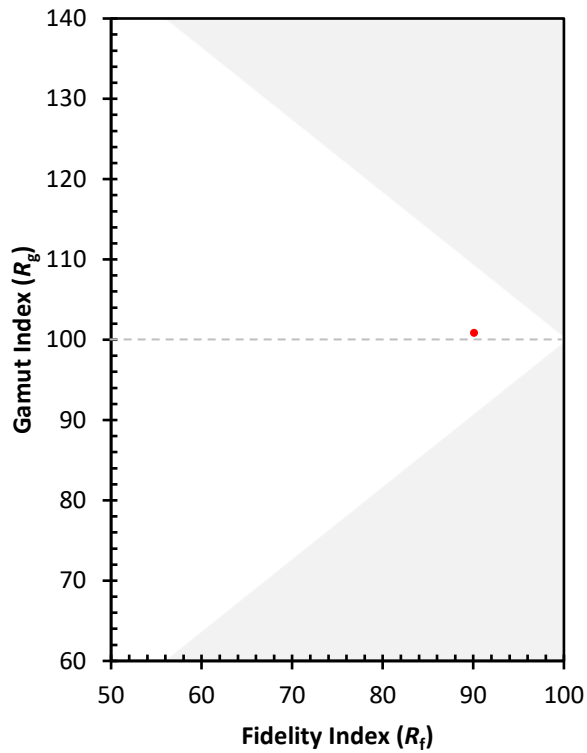
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 88 | CES51 = 99 | CES76 = 80 |
| CES02 = 61 | CES27 = 94 | CES52 = 96 | CES77 = 87 |
| CES03 = 31 | CES28 = 93 | CES53 = 93 | CES78 = 78 |
| CES04 = 69 | CES29 = 90 | CES54 = 97 | CES79 = 94 |
| CES05 = 49 | CES30 = 99 | CES55 = 96 | CES80 = 91 |
| CES06 = 50 | CES31 = 90 | CES56 = 93 | CES81 = 81 |
| CES07 = 42 | CES32 = 82 | CES57 = 92 | CES82 = 96 |
| CES08 = 41 | CES33 = 93 | CES58 = 93 | CES83 = 95 |
| CES09 = 29 | CES34 = 88 | CES59 = 97 | CES84 = 93 |
| CES10 = 74 | CES35 = 93 | CES60 = 94 | CES85 = 82 |
| CES11 = 57 | CES36 = 85 | CES61 = 94 | CES86 = 84 |
| CES12 = 63 | CES37 = 90 | CES62 = 91 | CES87 = 89 |
| CES13 = 43 | CES38 = 95 | CES63 = 91 | CES88 = 96 |
| CES14 = 74 | CES39 = 98 | CES64 = 90 | CES89 = 84 |
| CES15 = 71 | CES40 = 95 | CES65 = 87 | CES90 = 97 |
| CES16 = 47 | CES41 = 97 | CES66 = 86 | CES91 = 75 |
| CES17 = 49 | CES42 = 87 | CES67 = 85 | CES92 = 78 |
| CES18 = 56 | CES43 = 89 | CES68 = 87 | CES93 = 87 |
| CES19 = 71 | CES44 = 99 | CES69 = 88 | CES94 = 75 |
| CES20 = 66 | CES45 = 92 | CES70 = 83 | CES95 = 83 |
| CES21 = 85 | CES46 = 94 | CES71 = 78 | CES96 = 91 |
| CES22 = 78 | CES47 = 92 | CES72 = 93 | CES97 = 91 |
| CES23 = 91 | CES48 = 95 | CES73 = 77 | CES98 = 91 |
| CES24 = 90 | CES49 = 92 | CES74 = 93 | CES99 = 94 |
| CES25 = 71 | CES50 = 98 | CES75 = 79 |            |



Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)