

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: IRiS

Report Number: P1251922

Luminaire Tested: P3A13R259030DE010 E3CD1MW

Issue Date: 1/30/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1251922  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2601-647-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/30/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A13R259030DE010 E3CD1MW  
Description: 3in Adjustable LED luminaire with, R25 optic, 3000K CCT AND, 90CRI , E3CD1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

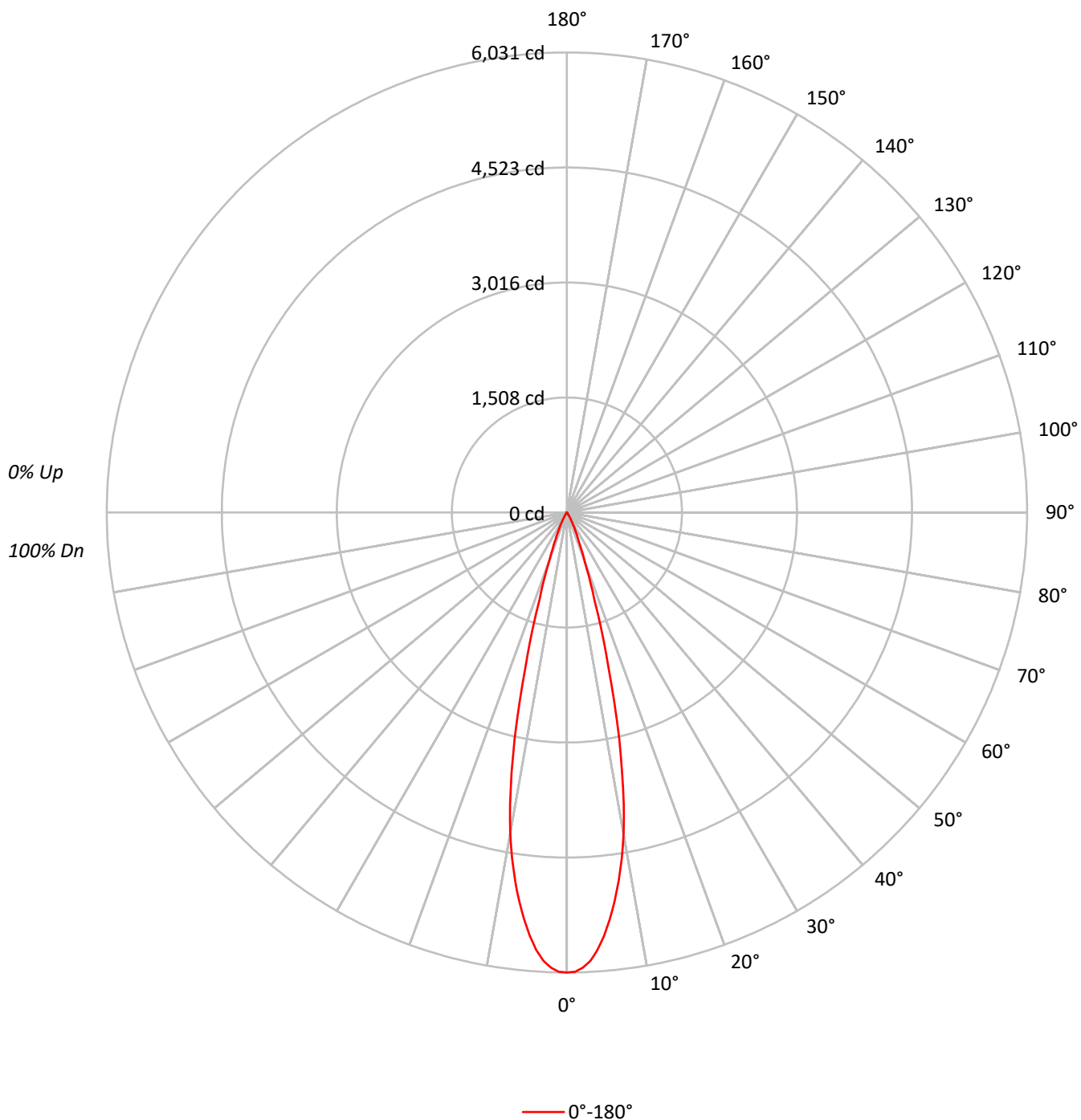
Lumens per Lamp: N/A  
Luminaire Lumens: 1237.0 lumens  
Efficiency: N/A  
Efficacy: 84.7 lumens/watt  
Spacing Criteria (0/90/45): 0.45 / 0.45 / 0.41  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P1251922

CATALOG NUMBER: P3A13R259030DE010 E3CD1MW

### Luminous Intensity Polar Plot



TEST NUMBER: P1251922

CATALOG NUMBER: P3A13R259030DE010 E3CD1MW

**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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 115 | 113 | 111 | 110 | 113 | 111 | 109 | 108 | 107 | 106 | 105 |  | 103 | 103 | 102 |  | 100 |
| 2   | 112 | 108 | 105 | 103 | 110 | 107 | 104 | 102 | 104 | 102 | 100 |  | 101 | 99  | 98  |  | 98  |
| 3   | 108 | 104 | 101 | 98  | 107 | 103 | 100 | 97  | 100 | 98  | 96  |  | 98  | 96  | 94  |  | 96  |
| 4   | 105 | 100 | 97  | 94  | 104 | 99  | 96  | 93  | 97  | 95  | 92  |  | 96  | 93  | 91  |  | 94  |
| 5   | 103 | 97  | 93  | 90  | 101 | 96  | 93  | 90  | 95  | 92  | 89  |  | 93  | 91  | 89  |  | 92  |
| 6   | 100 | 94  | 90  | 87  | 99  | 93  | 90  | 87  | 92  | 89  | 87  |  | 91  | 88  | 86  |  | 90  |
| 7   | 97  | 91  | 88  | 85  | 96  | 91  | 87  | 85  | 90  | 87  | 84  |  | 89  | 86  | 84  |  | 88  |
| 8   | 95  | 89  | 85  | 83  | 94  | 89  | 85  | 82  | 88  | 84  | 82  |  | 87  | 84  | 82  |  | 86  |
| 9   | 93  | 87  | 83  | 80  | 92  | 86  | 83  | 80  | 86  | 82  | 80  |  | 85  | 82  | 80  |  | 84  |
| 10  | 91  | 85  | 81  | 78  | 90  | 84  | 81  | 78  | 84  | 80  | 78  |  | 83  | 80  | 78  |  | 82  |

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

|     |         |
|-----|---------|
|     | 0°      |
| 0°  | 1322526 |
| 5°  | 1226609 |
| 10° | 951263  |
| 15° | 476983  |
| 20° | 156697  |
| 25° | 62302   |
| 30° | 23371   |
| 35° | 6773    |
| 40° | 3063    |
| 45° | 1209    |
| 50° | 989     |
| 55° | 726     |
| 60° | 833     |
| 65° | 986     |
| 70° | 641     |
| 75° | 847     |
| 80° | 1263    |
| 85° | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 80°

Luminance: 1263 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 490.1  | 39.6      |
| 10°-20°   | 584.8  | 47.3      |
| 20°-30°   | 131.8  | 10.7      |
| 30°-40°   | 21.4   | 1.7       |
| 40°-50°   | 3.9    | 0.3       |
| 50°-60°   | 2.0    | 0.2       |
| 60°-70°   | 1.8    | 0.1       |
| 70°-80°   | 1.1    | 0.1       |
| 80°-90°   | 0.1    | 0.0       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| <hr/>     |        |           |
| 0°-30°    | 1206.7 | 97.6      |
| 0°-40°    | 1228.1 | 99.3      |
| 0°-60°    | 1234.0 | 99.8      |
| 0°-90°    | 1237.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1237.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 6031 |      |
| 5°  | 5572 | 490  |
| 15° | 2101 | 585  |
| 25° | 258  | 132  |
| 35° | 25   | 21   |
| 45° | 4    | 4    |
| 55° | 2    | 2    |
| 65° | 2    | 2    |
| 75° | 1    | 1    |
| 85° | 0    | 0    |
| 90° | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 6031.2 |
| 1°    | 6021.5 |
| 2°    | 5972.9 |
| 3°    | 5883.5 |
| 4°    | 5748.4 |
| 5°    | 5572.5 |
| 6°    | 5362.6 |
| 7°    | 5135.2 |
| 8°    | 4874.7 |
| 9°    | 4590.0 |
| 10°   | 4272.2 |
| 11°   | 3905.8 |
| 12°   | 3484.0 |
| 13°   | 3042.8 |
| 14°   | 2569.5 |
| 15°   | 2101.1 |
| 17.5° | 1197.3 |
| 20°   | 671.5  |
| 22.5° | 405.3  |
| 25°   | 257.5  |
| 27.5° | 158.4  |
| 30°   | 92.3   |
| 32.5° | 48.6   |
| 35°   | 25.3   |
| 37.5° | 16.5   |
| 40°   | 10.7   |
| 42.5° | 6.8    |
| 45°   | 3.9    |
| 47.5° | 2.9    |
| 50°   | 2.9    |
| 52.5° | 2.9    |
| 55°   | 1.9    |
| 57.5° | 1.9    |
| 60°   | 1.9    |
| 62.5° | 1.9    |
| 65°   | 1.9    |
| 67.5° | 1.9    |
| 70°   | 1.0    |
| 72.5° | 1.0    |
| 75°   | 1.0    |
| 77.5° | 1.0    |
| 80°   | 1.0    |
| 82.5° | 0.0    |
| 85°   | 0.0    |
| 87.5° | 0.0    |



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CANDELA DISTRIBUTION (continued):



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

Report Prepared for

Cooper Lighting Solutions

IRiS

Report Number: SP1-2504-409-28

Test Date: 05/16/2025

Luminaire Tested: LD3A09R159030D010 E3D1H

Data in this report applies to families of products including LD3A

### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2504-409-28  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry:  $4\pi$   
 Issue Date: 01/06/2026  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: IRiS  
 Catalog Number: **LD3A09R159030D010 E3D1H**  
 Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 90CRI LEDS, E3D1H TRIM

### Spectral Parameters

CCT (K): 3032  
 CIE  $u'$ : 0.2493  
 CIE  $v'$ : 0.5211  
 Duv: 0.0003  
 CIE x: 0.4351  
 CIE y: 0.4042  
 CIE z: 0.1608  
 Peak Wavelength (nm): 615  
 Dominant Wavelength (nm): 582  
 Purity: 51.90029  
 Rf: 91.6  
 Rg: 98.2

CRI (Ra): 92.8  
 R1: 93.5  
 R2: 97.3  
 R3: 98.7  
 R4: 93.9  
 R5: 93.6  
 R6: 96.7  
 R7: 90.3  
 R8: 78.4  
 R9: 51.3  
 R10: 93.2  
 R11: 96.4  
 R12: 82.1  
 R13: 94.8  
 R14: 99.6  
 R15: 87.6



### Test Conditions

Stabilization Time: 40M  
 Operation Time: 1H 40M  
 Sphere Temperature (°C): 25.1

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| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| Photometer                     | 76INCH SPHERE IN0058  | 12/16/2024       | 6/16/2025            |
| 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 3000K 4-step quadrangle

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### Photopic Flux vs. Wavelength



### Photopic Lumens: NR

| λ (nm) | Power W <sup>^</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (φ/nm) |
|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|
| 360    | 0                        | NR            | 490    | 285                      | NR            | 620    | 993                      | NR            | 750    | 55                       | NR            | 880    | 1                        | NR            |
| 365    | 0                        | NR            | 495    | 338                      | NR            | 625    | 970                      | NR            | 755    | 47                       | NR            | 885    | 1                        | NR            |
| 370    | 0                        | NR            | 500    | 392                      | NR            | 630    | 942                      | NR            | 760    | 41                       | NR            | 890    | 1                        | NR            |
| 375    | 0                        | NR            | 505    | 440                      | NR            | 635    | 902                      | NR            | 765    | 35                       | NR            | 895    | 1                        | NR            |
| 380    | 0                        | NR            | 510    | 478                      | NR            | 640    | 855                      | NR            | 770    | 30                       | NR            | 900    | 1                        | NR            |
| 385    | 0                        | NR            | 515    | 505                      | NR            | 645    | 800                      | NR            | 775    | 26                       | NR            | 905    | 1                        | NR            |
| 390    | 0                        | NR            | 520    | 524                      | NR            | 650    | 743                      | NR            | 780    | 22                       | NR            | 910    | 0                        | NR            |
| 395    | 1                        | NR            | 525    | 539                      | NR            | 655    | 682                      | NR            | 785    | 19                       | NR            | 915    | 0                        | NR            |
| 400    | 2                        | NR            | 530    | 554                      | NR            | 660    | 621                      | NR            | 790    | 16                       | NR            | 920    | 0                        | NR            |
| 405    | 3                        | NR            | 535    | 565                      | NR            | 665    | 563                      | NR            | 795    | 14                       | NR            | 925    | 1                        | NR            |
| 410    | 5                        | NR            | 540    | 581                      | NR            | 670    | 505                      | NR            | 800    | 12                       | NR            | 930    | 0                        | NR            |
| 415    | 10                       | NR            | 545    | 593                      | NR            | 675    | 451                      | NR            | 805    | 10                       | NR            | 935    | 0                        | NR            |
| 420    | 17                       | NR            | 550    | 606                      | NR            | 680    | 401                      | NR            | 810    | 9                        | NR            | 940    | 0                        | NR            |
| 425    | 32                       | NR            | 555    | 623                      | NR            | 685    | 356                      | NR            | 815    | 8                        | NR            | 945    | 0                        | NR            |
| 430    | 57                       | NR            | 560    | 645                      | NR            | 690    | 313                      | NR            | 820    | 7                        | NR            | 950    | 0                        | NR            |
| 435    | 103                      | NR            | 565    | 667                      | NR            | 695    | 274                      | NR            | 825    | 6                        | NR            | 955    | 0                        | NR            |
| 440    | 175                      | NR            | 570    | 699                      | NR            | 700    | 238                      | NR            | 830    | 5                        | NR            | 960    | 0                        | NR            |
| 445    | 287                      | NR            | 575    | 732                      | NR            | 705    | 208                      | NR            | 835    | 4                        | NR            | 965    | 0                        | NR            |
| 450    | 460                      | NR            | 580    | 774                      | NR            | 710    | 180                      | NR            | 840    | 4                        | NR            | 970    | 0                        | NR            |
| 455    | 550                      | NR            | 585    | 816                      | NR            | 715    | 157                      | NR            | 845    | 3                        | NR            | 975    | 0                        | NR            |
| 460    | 423                      | NR            | 590    | 862                      | NR            | 720    | 136                      | NR            | 850    | 3                        | NR            | 980    | 0                        | NR            |
| 465    | 309                      | NR            | 595    | 907                      | NR            | 725    | 117                      | NR            | 855    | 2                        | NR            | 985    | 0                        | NR            |
| 470    | 269                      | NR            | 600    | 943                      | NR            | 730    | 100                      | NR            | 860    | 2                        | NR            | 990    | 0                        | NR            |
| 475    | 229                      | NR            | 605    | 974                      | NR            | 735    | 86                       | NR            | 865    | 2                        | NR            | 995    | 0                        | NR            |
| 480    | 214                      | NR            | 610    | 991                      | NR            | 740    | 72                       | NR            | 870    | 2                        | NR            | 1000   | 0                        | NR            |
| 485    | 241                      | NR            | 615    | 1000                     | NR            | 745    | 62                       | NR            | 875    | 1                        | NR            |        |                          |               |

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### Scotopic Flux vs. Wavelength


**Scotopic Lumens: NR**
**S/P: 1.44**

| 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    | 285                      | NR            | 620    | 993                      | NR            | 750    | 55                       | NR            | 880    | 1                        | NR            |
| 365    | 0                        | NR            | 495    | 338                      | NR            | 625    | 970                      | NR            | 755    | 47                       | NR            | 885    | 1                        | NR            |
| 370    | 0                        | NR            | 500    | 392                      | NR            | 630    | 942                      | NR            | 760    | 41                       | NR            | 890    | 1                        | NR            |
| 375    | 0                        | NR            | 505    | 440                      | NR            | 635    | 902                      | NR            | 765    | 35                       | NR            | 895    | 1                        | NR            |
| 380    | 0                        | NR            | 510    | 478                      | NR            | 640    | 855                      | NR            | 770    | 30                       | NR            | 900    | 1                        | NR            |
| 385    | 0                        | NR            | 515    | 505                      | NR            | 645    | 800                      | NR            | 775    | 26                       | NR            | 905    | 1                        | NR            |
| 390    | 0                        | NR            | 520    | 524                      | NR            | 650    | 743                      | NR            | 780    | 22                       | NR            | 910    | 0                        | NR            |
| 395    | 1                        | NR            | 525    | 539                      | NR            | 655    | 682                      | NR            | 785    | 19                       | NR            | 915    | 0                        | NR            |
| 400    | 2                        | NR            | 530    | 554                      | NR            | 660    | 621                      | NR            | 790    | 16                       | NR            | 920    | 0                        | NR            |
| 405    | 3                        | NR            | 535    | 565                      | NR            | 665    | 563                      | NR            | 795    | 14                       | NR            | 925    | 1                        | NR            |
| 410    | 5                        | NR            | 540    | 581                      | NR            | 670    | 505                      | NR            | 800    | 12                       | NR            | 930    | 0                        | NR            |
| 415    | 10                       | NR            | 545    | 593                      | NR            | 675    | 451                      | NR            | 805    | 10                       | NR            | 935    | 0                        | NR            |
| 420    | 17                       | NR            | 550    | 606                      | NR            | 680    | 401                      | NR            | 810    | 9                        | NR            | 940    | 0                        | NR            |
| 425    | 32                       | NR            | 555    | 623                      | NR            | 685    | 356                      | NR            | 815    | 8                        | NR            | 945    | 0                        | NR            |
| 430    | 57                       | NR            | 560    | 645                      | NR            | 690    | 313                      | NR            | 820    | 7                        | NR            | 950    | 0                        | NR            |
| 435    | 103                      | NR            | 565    | 667                      | NR            | 695    | 274                      | NR            | 825    | 6                        | NR            | 955    | 0                        | NR            |
| 440    | 175                      | NR            | 570    | 699                      | NR            | 700    | 238                      | NR            | 830    | 5                        | NR            | 960    | 0                        | NR            |
| 445    | 287                      | NR            | 575    | 732                      | NR            | 705    | 208                      | NR            | 835    | 4                        | NR            | 965    | 0                        | NR            |
| 450    | 460                      | NR            | 580    | 774                      | NR            | 710    | 180                      | NR            | 840    | 4                        | NR            | 970    | 0                        | NR            |
| 455    | 550                      | NR            | 585    | 816                      | NR            | 715    | 157                      | NR            | 845    | 3                        | NR            | 975    | 0                        | NR            |
| 460    | 423                      | NR            | 590    | 862                      | NR            | 720    | 136                      | NR            | 850    | 3                        | NR            | 980    | 0                        | NR            |
| 465    | 309                      | NR            | 595    | 907                      | NR            | 725    | 117                      | NR            | 855    | 2                        | NR            | 985    | 0                        | NR            |
| 470    | 269                      | NR            | 600    | 943                      | NR            | 730    | 100                      | NR            | 860    | 2                        | NR            | 990    | 0                        | NR            |
| 475    | 229                      | NR            | 605    | 974                      | NR            | 735    | 86                       | NR            | 865    | 2                        | NR            | 995    | 0                        | NR            |
| 480    | 214                      | NR            | 610    | 991                      | NR            | 740    | 72                       | NR            | 870    | 2                        | NR            | 1000   | 0                        | NR            |
| 485    | 241                      | NR            | 615    | 1000                     | NR            | 745    | 62                       | NR            | 875    | 1                        | NR            |        |                          |               |

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### Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.84

| $\lambda$<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               | 285                                    | NR                             | 620               | 993                                    | NR                             | 750               | 55                                     | NR                             | 880               | 1                                      | NR                             |
| 365               | 0                                      | NR                             | 495               | 338                                    | NR                             | 625               | 970                                    | NR                             | 755               | 47                                     | NR                             | 885               | 1                                      | NR                             |
| 370               | 0                                      | NR                             | 500               | 392                                    | NR                             | 630               | 942                                    | NR                             | 760               | 41                                     | NR                             | 890               | 1                                      | NR                             |
| 375               | 0                                      | NR                             | 505               | 440                                    | NR                             | 635               | 902                                    | NR                             | 765               | 35                                     | NR                             | 895               | 1                                      | NR                             |
| 380               | 0                                      | NR                             | 510               | 478                                    | NR                             | 640               | 855                                    | NR                             | 770               | 30                                     | NR                             | 900               | 1                                      | NR                             |
| 385               | 0                                      | NR                             | 515               | 505                                    | NR                             | 645               | 800                                    | NR                             | 775               | 26                                     | NR                             | 905               | 1                                      | NR                             |
| 390               | 0                                      | NR                             | 520               | 524                                    | NR                             | 650               | 743                                    | NR                             | 780               | 22                                     | NR                             | 910               | 0                                      | NR                             |
| 395               | 1                                      | NR                             | 525               | 539                                    | NR                             | 655               | 682                                    | NR                             | 785               | 19                                     | NR                             | 915               | 0                                      | NR                             |
| 400               | 2                                      | NR                             | 530               | 554                                    | NR                             | 660               | 621                                    | NR                             | 790               | 16                                     | NR                             | 920               | 0                                      | NR                             |
| 405               | 3                                      | NR                             | 535               | 565                                    | NR                             | 665               | 563                                    | NR                             | 795               | 14                                     | NR                             | 925               | 1                                      | NR                             |
| 410               | 5                                      | NR                             | 540               | 581                                    | NR                             | 670               | 505                                    | NR                             | 800               | 12                                     | NR                             | 930               | 0                                      | NR                             |
| 415               | 10                                     | NR                             | 545               | 593                                    | NR                             | 675               | 451                                    | NR                             | 805               | 10                                     | NR                             | 935               | 0                                      | NR                             |
| 420               | 17                                     | NR                             | 550               | 606                                    | NR                             | 680               | 401                                    | NR                             | 810               | 9                                      | NR                             | 940               | 0                                      | NR                             |
| 425               | 32                                     | NR                             | 555               | 623                                    | NR                             | 685               | 356                                    | NR                             | 815               | 8                                      | NR                             | 945               | 0                                      | NR                             |
| 430               | 57                                     | NR                             | 560               | 645                                    | NR                             | 690               | 313                                    | NR                             | 820               | 7                                      | NR                             | 950               | 0                                      | NR                             |
| 435               | 103                                    | NR                             | 565               | 667                                    | NR                             | 695               | 274                                    | NR                             | 825               | 6                                      | NR                             | 955               | 0                                      | NR                             |
| 440               | 175                                    | NR                             | 570               | 699                                    | NR                             | 700               | 238                                    | NR                             | 830               | 5                                      | NR                             | 960               | 0                                      | NR                             |
| 445               | 287                                    | NR                             | 575               | 732                                    | NR                             | 705               | 208                                    | NR                             | 835               | 4                                      | NR                             | 965               | 0                                      | NR                             |
| 450               | 460                                    | NR                             | 580               | 774                                    | NR                             | 710               | 180                                    | NR                             | 840               | 4                                      | NR                             | 970               | 0                                      | NR                             |
| 455               | 550                                    | NR                             | 585               | 816                                    | NR                             | 715               | 157                                    | NR                             | 845               | 3                                      | NR                             | 975               | 0                                      | NR                             |
| 460               | 423                                    | NR                             | 590               | 862                                    | NR                             | 720               | 136                                    | NR                             | 850               | 3                                      | NR                             | 980               | 0                                      | NR                             |
| 465               | 309                                    | NR                             | 595               | 907                                    | NR                             | 725               | 117                                    | NR                             | 855               | 2                                      | NR                             | 985               | 0                                      | NR                             |
| 470               | 269                                    | NR                             | 600               | 943                                    | NR                             | 730               | 100                                    | NR                             | 860               | 2                                      | NR                             | 990               | 0                                      | NR                             |
| 475               | 229                                    | NR                             | 605               | 974                                    | NR                             | 735               | 86                                     | NR                             | 865               | 2                                      | NR                             | 995               | 0                                      | NR                             |
| 480               | 214                                    | NR                             | 610               | 991                                    | NR                             | 740               | 72                                     | NR                             | 870               | 2                                      | NR                             | 1000              | 0                                      | NR                             |
| 485               | 241                                    | NR                             | 615               | 1000                                   | NR                             | 745               | 62                                     | NR                             | 875               | 1                                      | NR                             |                   |                                        |                                |

REPORT NUMBER: SP1-2504-409-28

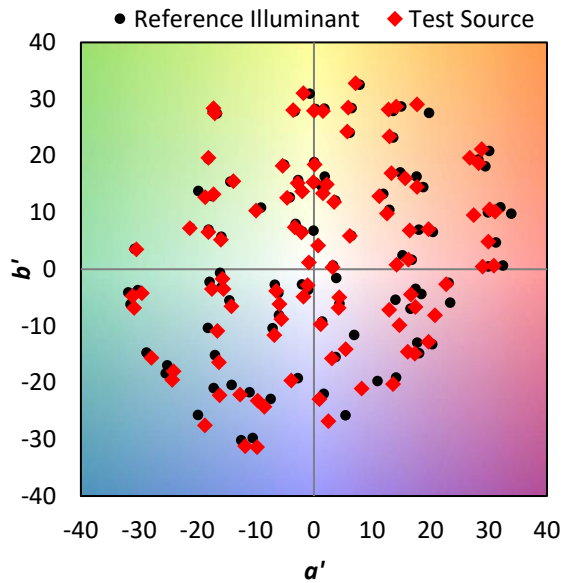
TM-30-18

### Summary

$R_f = 91.6$   
 $R_g = 98.2$   
 $\text{CIE } R_a = 92.8$   
 $R_9 = 51.3$



### Color Vector Graphics



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

|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 96 | CES51 = 97 | CES76 = 92 |
| CES02 = 63 | CES27 = 91 | CES52 = 99 | CES77 = 88 |
| CES03 = 32 | CES28 = 98 | CES53 = 98 | CES78 = 88 |
| CES04 = 70 | CES29 = 97 | CES54 = 93 | CES79 = 91 |
| CES05 = 50 | CES30 = 90 | CES55 = 91 | CES80 = 92 |
| CES06 = 51 | CES31 = 97 | CES56 = 94 | CES81 = 78 |
| CES07 = 43 | CES32 = 93 | CES57 = 93 | CES82 = 96 |
| CES08 = 42 | CES33 = 97 | CES58 = 94 | CES83 = 95 |
| CES09 = 29 | CES34 = 97 | CES59 = 97 | CES84 = 95 |
| CES10 = 76 | CES35 = 98 | CES60 = 93 | CES85 = 80 |
| CES11 = 59 | CES36 = 82 | CES61 = 93 | CES86 = 79 |
| CES12 = 65 | CES37 = 98 | CES62 = 87 | CES87 = 91 |
| CES13 = 44 | CES38 = 86 | CES63 = 94 | CES88 = 95 |
| CES14 = 74 | CES39 = 98 | CES64 = 92 | CES89 = 84 |
| CES15 = 72 | CES40 = 97 | CES65 = 89 | CES90 = 94 |
| CES16 = 48 | CES41 = 96 | CES66 = 90 | CES91 = 77 |
| CES17 = 50 | CES42 = 97 | CES67 = 89 | CES92 = 76 |
| CES18 = 57 | CES43 = 96 | CES68 = 91 | CES93 = 86 |
| CES19 = 72 | CES44 = 99 | CES69 = 92 | CES94 = 76 |
| CES20 = 67 | CES45 = 99 | CES70 = 89 | CES95 = 83 |
| CES21 = 86 | CES46 = 96 | CES71 = 85 | CES96 = 91 |
| CES22 = 79 | CES47 = 93 | CES72 = 95 | CES97 = 96 |
| CES23 = 92 | CES48 = 89 | CES73 = 85 | CES98 = 93 |
| CES24 = 90 | CES49 = 97 | CES74 = 90 | CES99 = 89 |
| CES25 = 72 | CES50 = 97 | CES75 = 86 |            |



Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)