

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: P1251894

Luminaire Tested: P3A13R209030DE010 E3CD1MB

Issue Date: 1/30/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1251894  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2601-647-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/30/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A13R209030DE010 E3CD1MB  
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 90CRI , E3CD1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

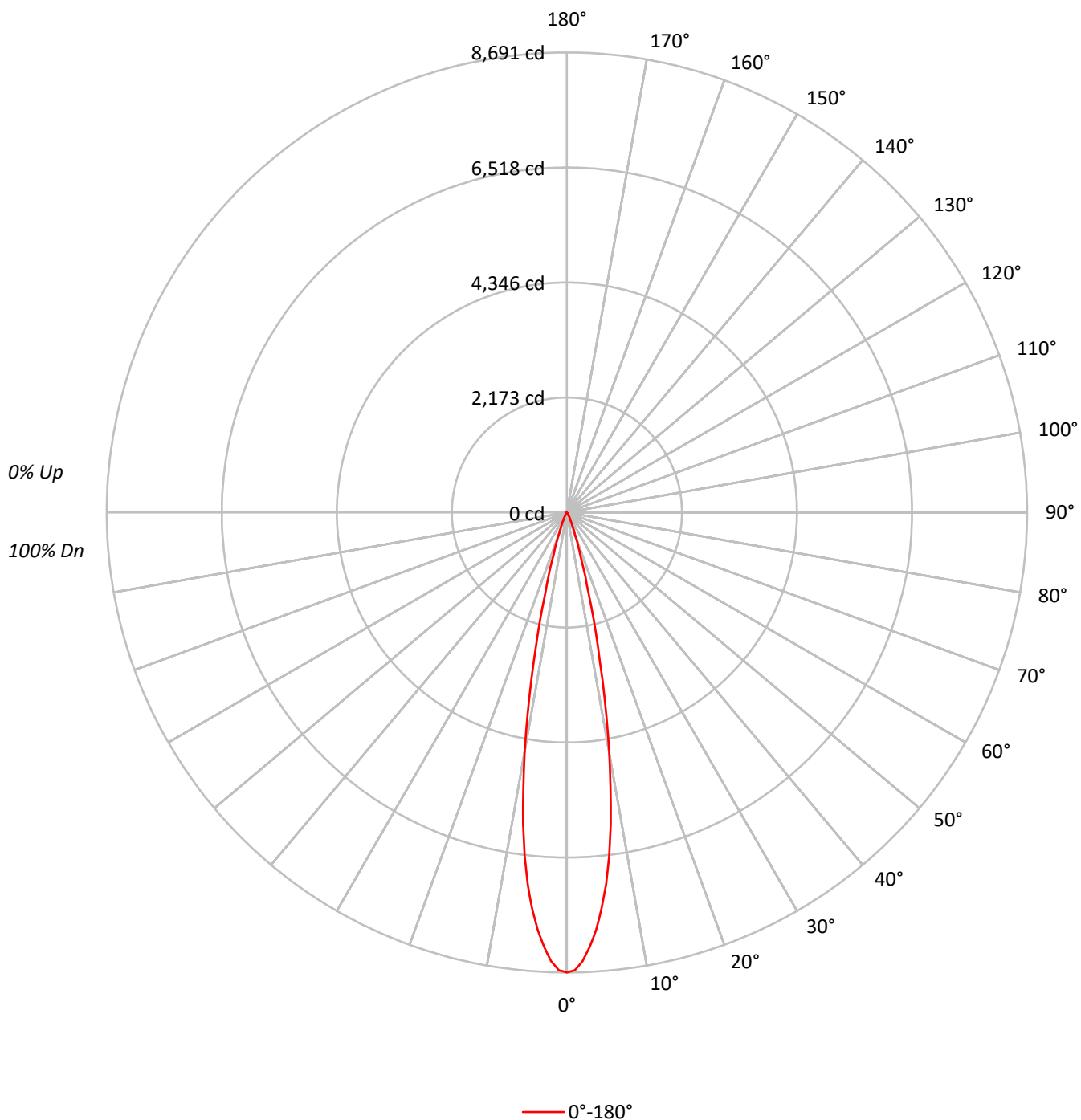
Lumens per Lamp: N/A  
Luminaire Lumens: 1227.0 lumens  
Efficiency: N/A  
Efficacy: 84.0 lumens/watt  
Spacing Criteria (0/90/45): 0.35 / 0.35 / 0.34  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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: P1251894

CATALOG NUMBER: P3A13R209030DE010 E3CD1MB

### Luminous Intensity Polar Plot



TEST NUMBER: P1251894

CATALOG NUMBER: P3A13R209030DE010 E3CD1MB

**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   | 116 | 114 | 112 | 110 | 113 | 112 | 110 | 109 | 108 | 106 | 105 |  | 104 | 103 | 102 |  | 101 |
| 2   | 112 | 109 | 107 | 104 | 110 | 108 | 105 | 103 | 104 | 103 | 101 |  | 102 | 100 | 99  |  | 99  |
| 3   | 109 | 105 | 102 | 100 | 108 | 104 | 101 | 99  | 102 | 99  | 97  |  | 99  | 98  | 96  |  | 97  |
| 4   | 107 | 102 | 99  | 96  | 105 | 101 | 98  | 96  | 99  | 97  | 95  |  | 97  | 95  | 93  |  | 96  |
| 5   | 104 | 99  | 96  | 93  | 103 | 98  | 95  | 93  | 97  | 94  | 92  |  | 95  | 93  | 91  |  | 94  |
| 6   | 102 | 97  | 93  | 91  | 101 | 96  | 93  | 90  | 95  | 92  | 90  |  | 94  | 91  | 89  |  | 93  |
| 7   | 100 | 94  | 91  | 88  | 99  | 94  | 91  | 88  | 93  | 90  | 88  |  | 92  | 89  | 87  |  | 91  |
| 8   | 98  | 92  | 89  | 86  | 97  | 92  | 89  | 86  | 91  | 88  | 86  |  | 90  | 88  | 86  |  | 89  |
| 9   | 96  | 90  | 87  | 85  | 95  | 90  | 87  | 85  | 89  | 86  | 84  |  | 89  | 86  | 84  |  | 88  |
| 10  | 94  | 89  | 85  | 83  | 93  | 88  | 85  | 83  | 88  | 85  | 83  |  | 87  | 84  | 83  |  | 86  |

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

|     |         |
|-----|---------|
|     | 0°      |
| 0°  | 1905681 |
| 5°  | 1654057 |
| 10° | 1022025 |
| 15° | 354985  |
| 20° | 109023  |
| 25° | 38543   |
| 30° | 14255   |
| 35° | 5729    |
| 40° | 3063    |
| 45° | 1209    |
| 50° | 648     |
| 55° | 726     |
| 60° | 833     |
| 65° | 519     |
| 70° | 641     |
| 75° | 847     |
| 80° | 0       |
| 85° | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1209 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 623.6  | 50.8      |
| 10°-20°   | 494.8  | 40.3      |
| 20°-30°   | 85.7   | 7.0       |
| 30°-40°   | 15.6   | 1.3       |
| 40°-50°   | 3.6    | 0.3       |
| 50°-60°   | 1.7    | 0.1       |
| 60°-70°   | 1.1    | 0.1       |
| 70°-80°   | 0.9    | 0.1       |
| 80°-90°   | 0.0    | 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       |
| 0°-30°    | 1204.1 | 98.1      |
| 0°-40°    | 1219.7 | 99.4      |
| 0°-60°    | 1225.0 | 99.8      |
| 0°-90°    | 1227.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1227.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 8691 |      |
| 5°  | 7514 | 624  |
| 15° | 1564 | 495  |
| 25° | 159  | 86   |
| 35° | 21   | 16   |
| 45° | 4    | 4    |
| 55° | 2    | 2    |
| 65° | 1    | 1    |
| 75° | 1    | 1    |
| 85° | 0    | 0    |
| 90° | 0    |      |

TEST NUMBER: P1251894

CATALOG NUMBER: P3A13R209030DE010 E3CD1MB

**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 8690.6 |
| 1°    | 8648.8 |
| 2°    | 8483.7 |
| 3°    | 8218.5 |
| 4°    | 7907.7 |
| 5°    | 7514.4 |
| 6°    | 7063.7 |
| 7°    | 6539.3 |
| 8°    | 5942.0 |
| 9°    | 5270.9 |
| 10°   | 4590.0 |
| 12.5° | 2895.2 |
| 15°   | 1563.7 |
| 17.5° | 835.3  |
| 20°   | 467.2  |
| 22.5° | 267.1  |
| 25°   | 159.3  |
| 27.5° | 97.1   |
| 30°   | 56.3   |
| 32.5° | 33.0   |
| 35°   | 21.4   |
| 37.5° | 14.6   |
| 40°   | 10.7   |
| 42.5° | 6.8    |
| 45°   | 3.9    |
| 47.5° | 1.9    |
| 50°   | 1.9    |
| 52.5° | 1.9    |
| 55°   | 1.9    |
| 57.5° | 1.9    |
| 60°   | 1.9    |
| 62.5° | 1.0    |
| 65°   | 1.0    |
| 67.5° | 1.0    |
| 70°   | 1.0    |
| 72.5° | 1.0    |
| 75°   | 1.0    |
| 77.5° | 1.0    |
| 80°   | 0.0    |
| 82.5° | 0.0    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

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  
 R<sub>f</sub>: 91.6  
 R<sub>g</sub>: 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>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    | 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<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(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

| λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(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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### 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)