

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: P1261025

Luminaire Tested: P3A24R259050D010 E3PHLP1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1261025  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A24R259050D010 E3PHLP1MW  
Description: 3in Adjustable LED luminaire with, R25 optic, 5000K CCT AND, 90CRI , E3PHLP1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

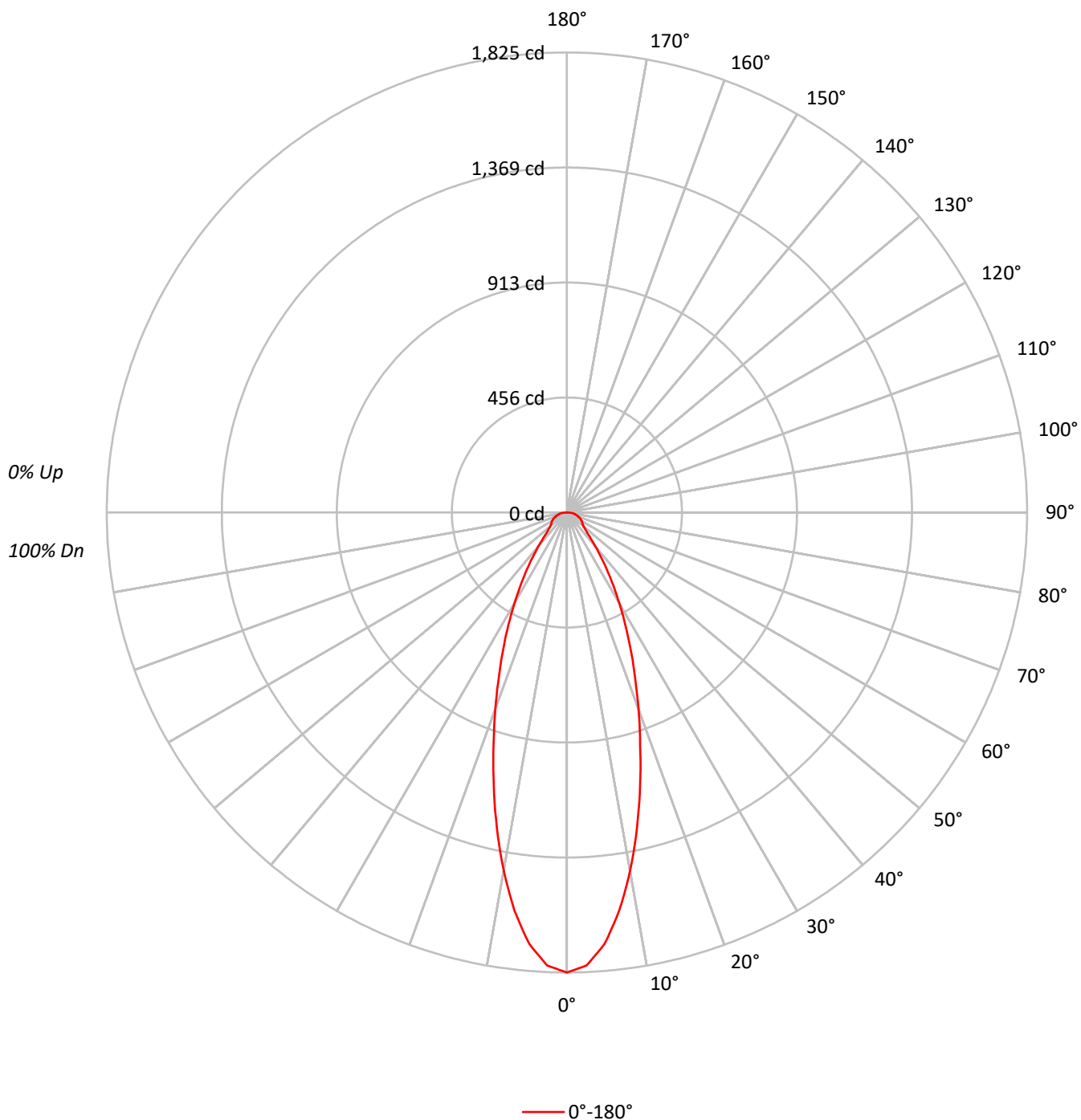
Lumens per Lamp: N/A  
Luminaire Lumens: 1191.0 lumens  
Efficiency: N/A  
Efficacy: 41.4 lumens/watt  
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.65  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.8  
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: P1261025

CATALOG NUMBER: P3A24R259050D010 E3PHLP1MW

### Luminous Intensity Polar Plot



TEST NUMBER: P1261025

CATALOG NUMBER: P3A24R259050D010 E3PHLP1MW

**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   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 97  |  | 98  | 96  | 95  |  | 95  |
| 2   | 105 | 99  | 94  | 90  | 103 | 97  | 93  | 89  | 94  | 90  | 87  |  | 91  | 88  | 85  |  | 88  |
| 3   | 99  | 91  | 85  | 80  | 97  | 90  | 84  | 80  | 87  | 82  | 78  |  | 84  | 80  | 77  |  | 82  |
| 4   | 93  | 84  | 78  | 73  | 91  | 83  | 77  | 73  | 81  | 76  | 72  |  | 79  | 74  | 71  |  | 77  |
| 5   | 88  | 79  | 72  | 67  | 86  | 78  | 71  | 67  | 76  | 70  | 66  |  | 74  | 69  | 66  |  | 72  |
| 6   | 84  | 74  | 67  | 62  | 82  | 73  | 66  | 62  | 71  | 66  | 61  |  | 70  | 65  | 61  |  | 68  |
| 7   | 79  | 69  | 63  | 58  | 78  | 68  | 62  | 58  | 67  | 61  | 57  |  | 66  | 61  | 57  |  | 65  |
| 8   | 76  | 65  | 59  | 54  | 74  | 65  | 58  | 54  | 63  | 58  | 54  |  | 62  | 57  | 54  |  | 61  |
| 9   | 72  | 62  | 55  | 51  | 71  | 61  | 55  | 51  | 60  | 55  | 51  |  | 59  | 54  | 51  |  | 58  |
| 10  | 69  | 59  | 52  | 48  | 68  | 58  | 52  | 48  | 57  | 52  | 48  |  | 56  | 51  | 48  |  | 56  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 400187 |
| 5°  | 378075 |
| 10° | 321370 |
| 15° | 254530 |
| 20° | 193450 |
| 25° | 144299 |
| 30° | 104953 |
| 35° | 74231  |
| 40° | 50351  |
| 45° | 35135  |
| 50° | 29509  |
| 55° | 28482  |
| 60° | 30085  |
| 65° | 30924  |
| 70° | 30582  |
| 75° | 32873  |
| 80° | 37631  |
| 85° | 37488  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 82.5°

Luminance: 40151 cd/sqm

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CATALOG NUMBER: P3A24R259050D010 E3PHLP1MW

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 155.0  | 13.0      |
| 10°-20°   | 310.3  | 26.1      |
| 20°-30°   | 274.8  | 23.1      |
| 30°-40°   | 175.0  | 14.7      |
| 40°-50°   | 92.6   | 7.8       |
| 50°-60°   | 68.1   | 5.7       |
| 60°-70°   | 58.0   | 4.9       |
| 70°-80°   | 40.9   | 3.4       |
| 80°-90°   | 16.2   | 1.4       |
| 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°    | 740.2  | 62.1      |
| 0°-40°    | 915.2  | 76.8      |
| 0°-60°    | 1075.9 | 90.3      |
| 0°-90°    | 1191.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1191.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1825 |      |
| 5°  | 1718 | 155  |
| 15° | 1121 | 310  |
| 25° | 596  | 275  |
| 35° | 277  | 175  |
| 45° | 113  | 93   |
| 55° | 74   | 68   |
| 65° | 60   | 58   |
| 75° | 39   | 41   |
| 85° | 15   | 16   |
| 90° | 0    |      |

TEST NUMBER: P1261025

CATALOG NUMBER: P3A24R259050D010 E3PHLP1MW

**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 1825.0 |
| 2.5°  | 1798.1 |
| 5°    | 1717.6 |
| 7.5°  | 1592.4 |
| 10°   | 1443.3 |
| 12.5° | 1282.2 |
| 15°   | 1121.2 |
| 17.5° | 966.2  |
| 20°   | 829.0  |
| 22.5° | 703.7  |
| 25°   | 596.4  |
| 27.5° | 501.0  |
| 30°   | 414.5  |
| 32.5° | 339.9  |
| 35°   | 277.3  |
| 37.5° | 220.7  |
| 40°   | 175.9  |
| 42.5° | 140.2  |
| 45°   | 113.3  |
| 47.5° | 98.4   |
| 50°   | 86.5   |
| 52.5° | 80.5   |
| 55°   | 74.5   |
| 57.5° | 71.6   |
| 60°   | 68.6   |
| 62.5° | 62.6   |
| 65°   | 59.6   |
| 67.5° | 53.7   |
| 70°   | 47.7   |
| 72.5° | 44.7   |
| 75°   | 38.8   |
| 77.5° | 32.8   |
| 80°   | 29.8   |
| 82.5° | 23.9   |
| 85°   | 14.9   |
| 87.5° | 6.0    |
| 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: SP1-2508-518-5

Test Date: 09/11/2025

Luminaire Tested: LD3A24R159050D010 E3D1LI

Data in this report applies to families of products including LD3A24R159050D010 E3D1LI

### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2508-518-5  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry:  $4\pi$   
 Issue Date: 09/16/2025  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: IRIS  
 Catalog Number: **LD3A24R159050D010 E3D1LI**  
 Description: 3in Adjustable LED luminaire with, R15 optic, 5000K CCT AND, 90CRI , E3D1LI TRIM

### Spectral Parameters

CCT (K): 4941  
 CIE  $u'$ : 0.2103  
 CIE  $v'$ : 0.4882  
 Duv: 0.0025  
 CIE x: 0.3473  
 CIE y: 0.3583  
 CIE z: 0.2944  
 Peak Wavelength (nm): 630  
 Dominant Wavelength (nm): 571  
 Purity: 11.7232  
 R<sub>f</sub>: 90.3  
 R<sub>g</sub>: 102.5

CRI (Ra): 92.8  
 R1: 95.7  
 R2: 92.6  
 R3: 86.9  
 R4: 93.9  
 R5: 93.3  
 R6: 89.1  
 R7: 95.4  
 R8: 95.4  
 R9: 82.3  
 R10: 79.2  
 R11: 92.0  
 R12: 66.8  
 R13: 94.2  
 R14: 91.7  
 R15: 95.4



### Test Conditions

Stabilization Time: 76M  
 Operation Time: 2H 16M  
 Sphere Temperature (°C): 25.2

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

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**CIE 1931 Chromaticity Diagram**



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



Point lies inside the ANSI 5000K 4-step quadrangle

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### Photopic Flux vs. Wavelength



### Photopic Lumens: NR

| λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) |
|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|
| 360       | 0                           | NR               | 490       | 164                         | NR               | 620       | 257                         | NR               | 750       | 5                           | NR               | 880       | 0                           | NR               |
| 365       | 0                           | NR               | 495       | 193                         | NR               | 625       | 259                         | NR               | 755       | 5                           | NR               | 885       | 0                           | NR               |
| 370       | 0                           | NR               | 500       | 227                         | NR               | 630       | 1000                        | NR               | 760       | 4                           | NR               | 890       | 0                           | NR               |
| 375       | 0                           | NR               | 505       | 260                         | NR               | 635       | 705                         | NR               | 765       | 3                           | NR               | 895       | 0                           | NR               |
| 380       | 1                           | NR               | 510       | 286                         | NR               | 640       | 139                         | NR               | 770       | 3                           | NR               | 900       | 0                           | NR               |
| 385       | 2                           | NR               | 515       | 307                         | NR               | 645       | 134                         | NR               | 775       | 3                           | NR               | 905       | 0                           | NR               |
| 390       | 2                           | NR               | 520       | 321                         | NR               | 650       | 120                         | NR               | 780       | 2                           | NR               | 910       | 0                           | NR               |
| 395       | 4                           | NR               | 525       | 331                         | NR               | 655       | 90                          | NR               | 785       | 2                           | NR               | 915       | 0                           | NR               |
| 400       | 5                           | NR               | 530       | 338                         | NR               | 660       | 72                          | NR               | 790       | 2                           | NR               | 920       | 0                           | NR               |
| 405       | 9                           | NR               | 535       | 344                         | NR               | 665       | 56                          | NR               | 795       | 2                           | NR               | 925       | 0                           | NR               |
| 410       | 15                          | NR               | 540       | 347                         | NR               | 670       | 56                          | NR               | 800       | 1                           | NR               | 930       | 0                           | NR               |
| 415       | 26                          | NR               | 545       | 347                         | NR               | 675       | 43                          | NR               | 805       | 1                           | NR               | 935       | 0                           | NR               |
| 420       | 44                          | NR               | 550       | 345                         | NR               | 680       | 36                          | NR               | 810       | 1                           | NR               | 940       | 0                           | NR               |
| 425       | 75                          | NR               | 555       | 342                         | NR               | 685       | 32                          | NR               | 815       | 1                           | NR               | 945       | 0                           | NR               |
| 430       | 122                         | NR               | 560       | 336                         | NR               | 690       | 27                          | NR               | 820       | 1                           | NR               | 950       | 0                           | NR               |
| 435       | 191                         | NR               | 565       | 326                         | NR               | 695       | 24                          | NR               | 825       | 1                           | NR               | 955       | 0                           | NR               |
| 440       | 280                         | NR               | 570       | 315                         | NR               | 700       | 20                          | NR               | 830       | 1                           | NR               | 960       | 0                           | NR               |
| 445       | 380                         | NR               | 575       | 303                         | NR               | 705       | 18                          | NR               | 835       | 1                           | NR               | 965       | 0                           | NR               |
| 450       | 477                         | NR               | 580       | 292                         | NR               | 710       | 15                          | NR               | 840       | 1                           | NR               | 970       | 0                           | NR               |
| 455       | 466                         | NR               | 585       | 283                         | NR               | 715       | 14                          | NR               | 845       | 0                           | NR               | 975       | 0                           | NR               |
| 460       | 346                         | NR               | 590       | 269                         | NR               | 720       | 12                          | NR               | 850       | 0                           | NR               | 980       | 0                           | NR               |
| 465       | 250                         | NR               | 595       | 254                         | NR               | 725       | 10                          | NR               | 855       | 0                           | NR               | 985       | 0                           | NR               |
| 470       | 192                         | NR               | 600       | 251                         | NR               | 730       | 9                           | NR               | 860       | 0                           | NR               | 990       | 0                           | NR               |
| 475       | 153                         | NR               | 605       | 247                         | NR               | 735       | 8                           | NR               | 865       | 0                           | NR               | 995       | 0                           | NR               |
| 480       | 136                         | NR               | 610       | 314                         | NR               | 740       | 7                           | NR               | 870       | 0                           | NR               | 1000      | 0                           | NR               |
| 485       | 143                         | NR               | 615       | 380                         | NR               | 745       | 6                           | NR               | 875       | 0                           | NR               |           |                             |                  |

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### Scotopic Flux vs. Wavelength



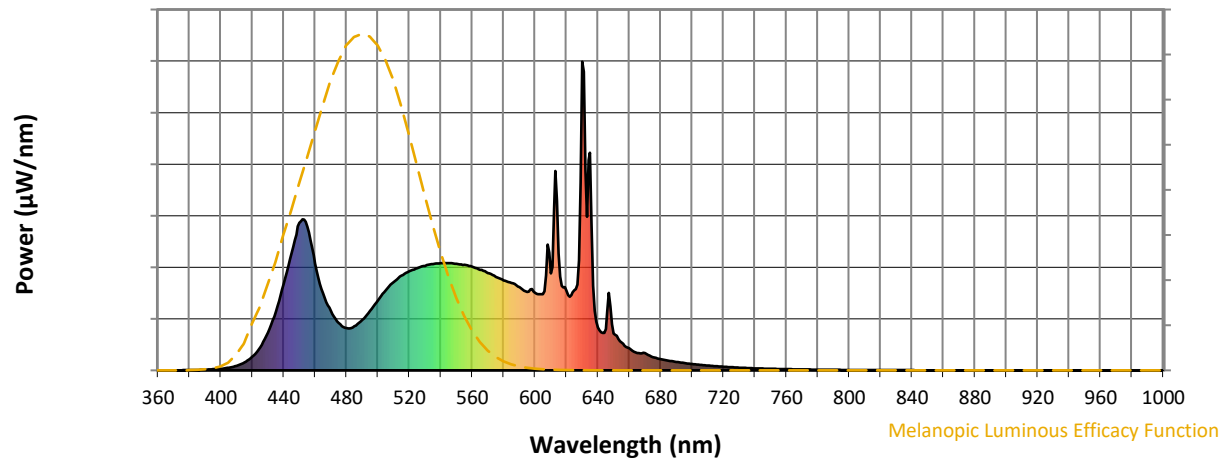
Scotopic Lumens: NR

S/P: 2

| 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    | 164                      | NR            | 620    | 257                      | NR            | 750    | 5                        | NR            | 880    | 0                        | NR            |
| 365    | 0                        | NR            | 495    | 193                      | NR            | 625    | 259                      | NR            | 755    | 5                        | NR            | 885    | 0                        | NR            |
| 370    | 0                        | NR            | 500    | 227                      | NR            | 630    | 1000                     | NR            | 760    | 4                        | NR            | 890    | 0                        | NR            |
| 375    | 0                        | NR            | 505    | 260                      | NR            | 635    | 705                      | NR            | 765    | 3                        | NR            | 895    | 0                        | NR            |
| 380    | 1                        | NR            | 510    | 286                      | NR            | 640    | 139                      | NR            | 770    | 3                        | NR            | 900    | 0                        | NR            |
| 385    | 2                        | NR            | 515    | 307                      | NR            | 645    | 134                      | NR            | 775    | 3                        | NR            | 905    | 0                        | NR            |
| 390    | 2                        | NR            | 520    | 321                      | NR            | 650    | 120                      | NR            | 780    | 2                        | NR            | 910    | 0                        | NR            |
| 395    | 4                        | NR            | 525    | 331                      | NR            | 655    | 90                       | NR            | 785    | 2                        | NR            | 915    | 0                        | NR            |
| 400    | 5                        | NR            | 530    | 338                      | NR            | 660    | 72                       | NR            | 790    | 2                        | NR            | 920    | 0                        | NR            |
| 405    | 9                        | NR            | 535    | 344                      | NR            | 665    | 56                       | NR            | 795    | 2                        | NR            | 925    | 0                        | NR            |
| 410    | 15                       | NR            | 540    | 347                      | NR            | 670    | 56                       | NR            | 800    | 1                        | NR            | 930    | 0                        | NR            |
| 415    | 26                       | NR            | 545    | 347                      | NR            | 675    | 43                       | NR            | 805    | 1                        | NR            | 935    | 0                        | NR            |
| 420    | 44                       | NR            | 550    | 345                      | NR            | 680    | 36                       | NR            | 810    | 1                        | NR            | 940    | 0                        | NR            |
| 425    | 75                       | NR            | 555    | 342                      | NR            | 685    | 32                       | NR            | 815    | 1                        | NR            | 945    | 0                        | NR            |
| 430    | 122                      | NR            | 560    | 336                      | NR            | 690    | 27                       | NR            | 820    | 1                        | NR            | 950    | 0                        | NR            |
| 435    | 191                      | NR            | 565    | 326                      | NR            | 695    | 24                       | NR            | 825    | 1                        | NR            | 955    | 0                        | NR            |
| 440    | 280                      | NR            | 570    | 315                      | NR            | 700    | 20                       | NR            | 830    | 1                        | NR            | 960    | 0                        | NR            |
| 445    | 380                      | NR            | 575    | 303                      | NR            | 705    | 18                       | NR            | 835    | 1                        | NR            | 965    | 0                        | NR            |
| 450    | 477                      | NR            | 580    | 292                      | NR            | 710    | 15                       | NR            | 840    | 1                        | NR            | 970    | 0                        | NR            |
| 455    | 466                      | NR            | 585    | 283                      | NR            | 715    | 14                       | NR            | 845    | 0                        | NR            | 975    | 0                        | NR            |
| 460    | 346                      | NR            | 590    | 269                      | NR            | 720    | 12                       | NR            | 850    | 0                        | NR            | 980    | 0                        | NR            |
| 465    | 250                      | NR            | 595    | 254                      | NR            | 725    | 10                       | NR            | 855    | 0                        | NR            | 985    | 0                        | NR            |
| 470    | 192                      | NR            | 600    | 251                      | NR            | 730    | 9                        | NR            | 860    | 0                        | NR            | 990    | 0                        | NR            |
| 475    | 153                      | NR            | 605    | 247                      | NR            | 735    | 8                        | NR            | 865    | 0                        | NR            | 995    | 0                        | NR            |
| 480    | 136                      | NR            | 610    | 314                      | NR            | 740    | 7                        | NR            | 870    | 0                        | NR            | 1000   | 0                        | NR            |
| 485    | 143                      | NR            | 615    | 380                      | NR            | 745    | 6                        | NR            | 875    | 0                        | NR            |        |                          |               |

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### Melanopic Flux vs. Wavelength


**Melanopic Lumens: NR**
**M/P: 4.22**

| λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) |
|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|
| 360       | 0                           | NR               | 490       | 164                         | NR               | 620       | 257                         | NR               | 750       | 5                           | NR               | 880       | 0                           | NR               |
| 365       | 0                           | NR               | 495       | 193                         | NR               | 625       | 259                         | NR               | 755       | 5                           | NR               | 885       | 0                           | NR               |
| 370       | 0                           | NR               | 500       | 227                         | NR               | 630       | 1000                        | NR               | 760       | 4                           | NR               | 890       | 0                           | NR               |
| 375       | 0                           | NR               | 505       | 260                         | NR               | 635       | 705                         | NR               | 765       | 3                           | NR               | 895       | 0                           | NR               |
| 380       | 1                           | NR               | 510       | 286                         | NR               | 640       | 139                         | NR               | 770       | 3                           | NR               | 900       | 0                           | NR               |
| 385       | 2                           | NR               | 515       | 307                         | NR               | 645       | 134                         | NR               | 775       | 3                           | NR               | 905       | 0                           | NR               |
| 390       | 2                           | NR               | 520       | 321                         | NR               | 650       | 120                         | NR               | 780       | 2                           | NR               | 910       | 0                           | NR               |
| 395       | 4                           | NR               | 525       | 331                         | NR               | 655       | 90                          | NR               | 785       | 2                           | NR               | 915       | 0                           | NR               |
| 400       | 5                           | NR               | 530       | 338                         | NR               | 660       | 72                          | NR               | 790       | 2                           | NR               | 920       | 0                           | NR               |
| 405       | 9                           | NR               | 535       | 344                         | NR               | 665       | 56                          | NR               | 795       | 2                           | NR               | 925       | 0                           | NR               |
| 410       | 15                          | NR               | 540       | 347                         | NR               | 670       | 56                          | NR               | 800       | 1                           | NR               | 930       | 0                           | NR               |
| 415       | 26                          | NR               | 545       | 347                         | NR               | 675       | 43                          | NR               | 805       | 1                           | NR               | 935       | 0                           | NR               |
| 420       | 44                          | NR               | 550       | 345                         | NR               | 680       | 36                          | NR               | 810       | 1                           | NR               | 940       | 0                           | NR               |
| 425       | 75                          | NR               | 555       | 342                         | NR               | 685       | 32                          | NR               | 815       | 1                           | NR               | 945       | 0                           | NR               |
| 430       | 122                         | NR               | 560       | 336                         | NR               | 690       | 27                          | NR               | 820       | 1                           | NR               | 950       | 0                           | NR               |
| 435       | 191                         | NR               | 565       | 326                         | NR               | 695       | 24                          | NR               | 825       | 1                           | NR               | 955       | 0                           | NR               |
| 440       | 280                         | NR               | 570       | 315                         | NR               | 700       | 20                          | NR               | 830       | 1                           | NR               | 960       | 0                           | NR               |
| 445       | 380                         | NR               | 575       | 303                         | NR               | 705       | 18                          | NR               | 835       | 1                           | NR               | 965       | 0                           | NR               |
| 450       | 477                         | NR               | 580       | 292                         | NR               | 710       | 15                          | NR               | 840       | 1                           | NR               | 970       | 0                           | NR               |
| 455       | 466                         | NR               | 585       | 283                         | NR               | 715       | 14                          | NR               | 845       | 0                           | NR               | 975       | 0                           | NR               |
| 460       | 346                         | NR               | 590       | 269                         | NR               | 720       | 12                          | NR               | 850       | 0                           | NR               | 980       | 0                           | NR               |
| 465       | 250                         | NR               | 595       | 254                         | NR               | 725       | 10                          | NR               | 855       | 0                           | NR               | 985       | 0                           | NR               |
| 470       | 192                         | NR               | 600       | 251                         | NR               | 730       | 9                           | NR               | 860       | 0                           | NR               | 990       | 0                           | NR               |
| 475       | 153                         | NR               | 605       | 247                         | NR               | 735       | 8                           | NR               | 865       | 0                           | NR               | 995       | 0                           | NR               |
| 480       | 136                         | NR               | 610       | 314                         | NR               | 740       | 7                           | NR               | 870       | 0                           | NR               | 1000      | 0                           | NR               |
| 485       | 143                         | NR               | 615       | 380                         | NR               | 745       | 6                           | NR               | 875       | 0                           | NR               |           |                             |                  |

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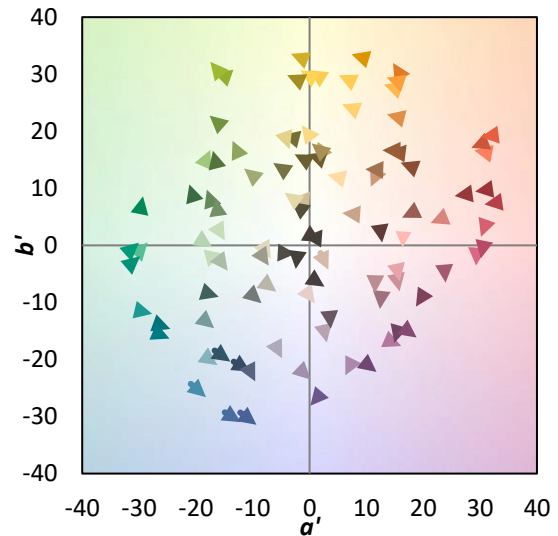
TM-30-18

### Summary

$R_f = 90.3$   
 $R_g = 102.5$   
 $\text{CIE } R_a = 92.8$   
 $R_9 = 82.3$

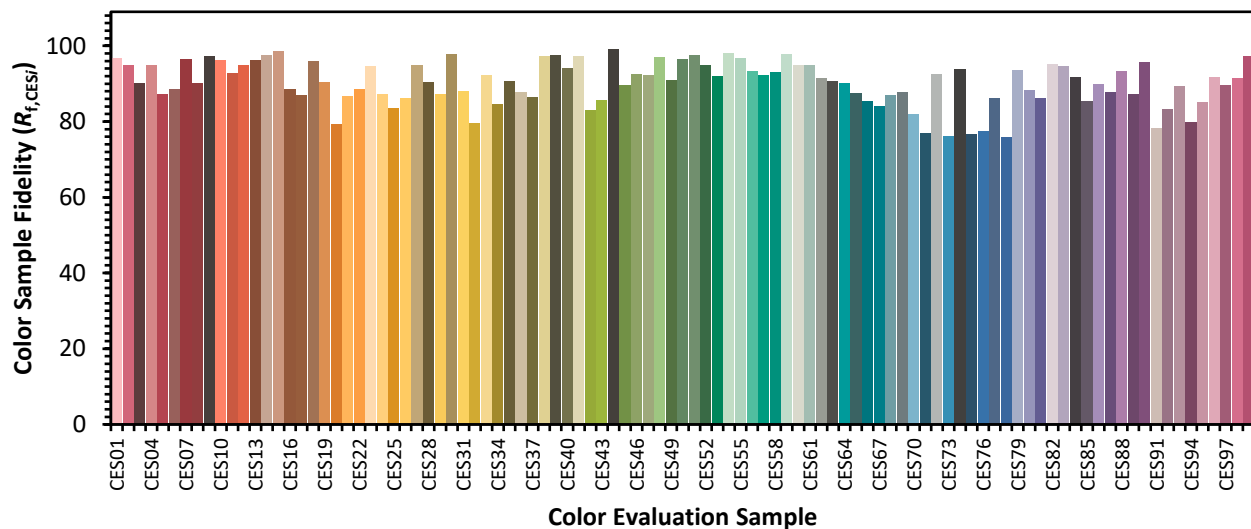


### Color Vector Graphics



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

|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 86 | CES51 = 98 | CES76 = 77 |
| CES02 = 61 | CES27 = 95 | CES52 = 95 | CES77 = 86 |
| CES03 = 31 | CES28 = 91 | CES53 = 92 | CES78 = 76 |
| CES04 = 68 | CES29 = 87 | CES54 = 98 | CES79 = 94 |
| CES05 = 48 | CES30 = 98 | CES55 = 97 | CES80 = 88 |
| CES06 = 50 | CES31 = 88 | CES56 = 93 | CES81 = 86 |
| CES07 = 41 | CES32 = 80 | CES57 = 92 | CES82 = 95 |
| CES08 = 40 | CES33 = 92 | CES58 = 93 | CES83 = 95 |
| CES09 = 29 | CES34 = 85 | CES59 = 98 | CES84 = 92 |
| CES10 = 73 | CES35 = 91 | CES60 = 95 | CES85 = 85 |
| CES11 = 55 | CES36 = 88 | CES61 = 95 | CES86 = 90 |
| CES12 = 62 | CES37 = 86 | CES62 = 91 | CES87 = 88 |
| CES13 = 43 | CES38 = 97 | CES63 = 91 | CES88 = 93 |
| CES14 = 74 | CES39 = 98 | CES64 = 90 | CES89 = 87 |
| CES15 = 71 | CES40 = 94 | CES65 = 88 | CES90 = 96 |
| CES16 = 47 | CES41 = 97 | CES66 = 85 | CES91 = 78 |
| CES17 = 48 | CES42 = 83 | CES67 = 84 | CES92 = 83 |
| CES18 = 56 | CES43 = 86 | CES68 = 87 | CES93 = 89 |
| CES19 = 70 | CES44 = 99 | CES69 = 88 | CES94 = 80 |
| CES20 = 65 | CES45 = 90 | CES70 = 82 | CES95 = 85 |
| CES21 = 85 | CES46 = 92 | CES71 = 77 | CES96 = 92 |
| CES22 = 77 | CES47 = 92 | CES72 = 93 | CES97 = 90 |
| CES23 = 91 | CES48 = 97 | CES73 = 76 | CES98 = 92 |
| CES24 = 90 | CES49 = 91 | CES74 = 94 | CES99 = 97 |
| CES25 = 70 | CES50 = 97 | CES75 = 77 |            |



**Color Rendition by Hue-Angle Bin**


**Measure Comparisons**


(END OF REPORT)