

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: P1258169

Luminaire Tested: P3A20R409040D010 E3DLP1LI

Issue Date: 1/30/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1258169  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2601-647-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/30/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A20R409040D010 E3DLP1LI  
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 90CRI , E3DLP1LI TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

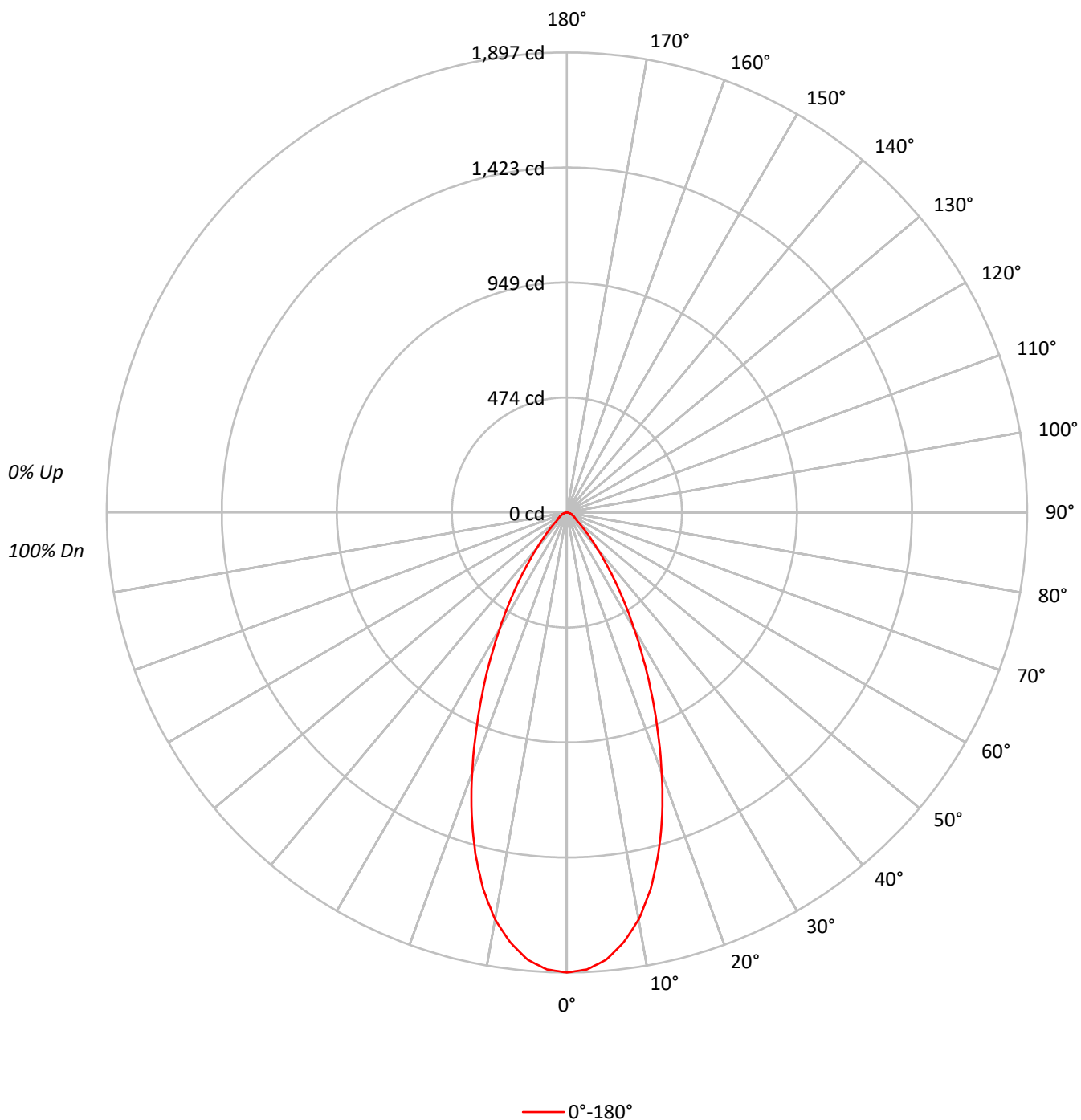
Lumens per Lamp: N/A  
Luminaire Lumens: 1336.0 lumens  
Efficiency: N/A  
Efficacy: 46.4 lumens/watt  
Spacing Criteria (0/90/45): 0.73 / 0.73 / 0.74  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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: P1258169

CATALOG NUMBER: P3A20R409040D010 E3DLP1LI

### Luminous Intensity Polar Plot



TEST NUMBER: P1258169

CATALOG NUMBER: P3A20R409040D010 E3DLP1LI

**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   | 113 | 110 | 108 | 105 | 111 | 108 | 106 | 104 | 104 | 102 | 100 |  | 100 | 99  | 97  |  | 97  |
| 2   | 107 | 102 | 98  | 95  | 105 | 101 | 97  | 93  | 97  | 94  | 91  |  | 94  | 92  | 89  |  | 92  |
| 3   | 102 | 95  | 90  | 86  | 100 | 94  | 89  | 85  | 91  | 87  | 84  |  | 89  | 85  | 83  |  | 86  |
| 4   | 97  | 89  | 83  | 79  | 95  | 88  | 83  | 79  | 86  | 81  | 78  |  | 84  | 80  | 77  |  | 82  |
| 5   | 92  | 83  | 77  | 73  | 90  | 82  | 77  | 73  | 81  | 76  | 72  |  | 79  | 75  | 71  |  | 77  |
| 6   | 87  | 78  | 72  | 68  | 86  | 78  | 72  | 68  | 76  | 71  | 67  |  | 75  | 70  | 67  |  | 73  |
| 7   | 83  | 74  | 68  | 64  | 82  | 73  | 68  | 64  | 72  | 67  | 63  |  | 71  | 66  | 63  |  | 70  |
| 8   | 79  | 70  | 64  | 60  | 78  | 69  | 64  | 60  | 68  | 63  | 59  |  | 67  | 63  | 59  |  | 66  |
| 9   | 76  | 66  | 60  | 56  | 75  | 66  | 60  | 56  | 65  | 60  | 56  |  | 64  | 59  | 56  |  | 63  |
| 10  | 72  | 63  | 57  | 53  | 71  | 62  | 57  | 53  | 62  | 57  | 53  |  | 61  | 56  | 53  |  | 60  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 415997 |
| 5°  | 407571 |
| 10° | 379485 |
| 15° | 330740 |
| 20° | 266560 |
| 25° | 199802 |
| 30° | 140477 |
| 35° | 92033  |
| 40° | 55704  |
| 45° | 33275  |
| 50° | 19854  |
| 55° | 15980  |
| 60° | 14341  |
| 65° | 12245  |
| 70° | 11669  |
| 75° | 9235   |
| 80° | 9218   |
| 85° | 9057   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 33275 cd/sqm

TEST NUMBER: P1258169

CATALOG NUMBER: P3A20R409040D010 E3DLP1LI

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 171.9  | 12.9      |
| 10°-20°   | 401.3  | 30.0      |
| 20°-30°   | 378.2  | 28.3      |
| 30°-40°   | 218.7  | 16.4      |
| 40°-50°   | 87.1   | 6.5       |
| 50°-60°   | 38.6   | 2.9       |
| 60°-70°   | 23.8   | 1.8       |
| 70°-80°   | 12.5   | 0.9       |
| 80°-90°   | 4.0    | 0.3       |
| 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°    | 951.4  | 71.2      |
| 0°-40°    | 1170.1 | 87.6      |
| 0°-60°    | 1295.7 | 97.0      |
| 0°-90°    | 1336.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1336.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1897 |      |
| 5°  | 1852 | 172  |
| 15° | 1457 | 401  |
| 25° | 826  | 378  |
| 35° | 344  | 219  |
| 45° | 107  | 87   |
| 55° | 42   | 39   |
| 65° | 24   | 24   |
| 75° | 11   | 12   |
| 85° | 4    | 4    |
| 90° | 0    |      |

TEST NUMBER: P1258169

CATALOG NUMBER: P3A20R409040D010 E3DLP1LI

**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 1897.1 |
| 2.5°  | 1886.2 |
| 5°    | 1851.6 |
| 7.5°  | 1788.0 |
| 10°   | 1704.3 |
| 12.5° | 1591.5 |
| 15°   | 1456.9 |
| 17.5° | 1306.0 |
| 20°   | 1142.3 |
| 22.5° | 978.6  |
| 25°   | 825.8  |
| 27.5° | 683.9  |
| 30°   | 554.8  |
| 32.5° | 442.0  |
| 35°   | 343.8  |
| 37.5° | 260.1  |
| 40°   | 194.6  |
| 42.5° | 145.5  |
| 45°   | 107.3  |
| 47.5° | 78.2   |
| 50°   | 58.2   |
| 52.5° | 47.3   |
| 55°   | 41.8   |
| 57.5° | 38.2   |
| 60°   | 32.7   |
| 62.5° | 27.3   |
| 65°   | 23.6   |
| 67.5° | 20.0   |
| 70°   | 18.2   |
| 72.5° | 14.6   |
| 75°   | 10.9   |
| 77.5° | 9.1    |
| 80°   | 7.3    |
| 82.5° | 5.5    |
| 85°   | 3.6    |
| 87.5° | 1.8    |
| 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: SP1-2504-409-14

Test Date: 05/14/2025

Luminaire Tested: LD3A05R129040D010 E3D1H

Data in this report applies to families of products including LD3A

### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2504-409-14  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry:  $4\pi$   
 Issue Date: 05/18/2025  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: IRiS  
 Catalog Number: **LD3A05R129040D010 E3D1H**  
 Description: 3in Adjustable LED luminaire with, R12 optic, 4000K CCT AND, 90CRI LEDS, E3D1H TRIM

### Spectral Parameters

CCT (K): 4015  
 CIE  $u'$ : 0.2239  
 CIE  $v'$ : 0.5033  
 Duv: 0.0016  
 CIE x: 0.3809  
 CIE y: 0.3805  
 CIE z: 0.2386  
 Peak Wavelength (nm): 450  
 Dominant Wavelength (nm): 578  
 Purity: 28.51686  
 Rf: 91.5  
 Rg: 100.3

CRI (Ra): 92.3  
 R1: 93.1  
 R2: 93.8  
 R3: 94.2  
 R4: 94.2  
 R5: 92.7  
 R6: 91.9  
 R7: 94.0  
 R8: 84.8  
 R9: 58.4  
 R10: 85.3  
 R11: 94.4  
 R12: 74.9  
 R13: 93.3  
 R14: 96.5  
 R15: 89.0



### Test Conditions

Stabilization Time: 26M  
 Operation Time: 1H 26M  
 Sphere Temperature (°C): 24.9

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



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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    | 385                      | NR            | 620    | 871                      | NR            | 750    | 49                       | NR            | 880    | 1                        | NR            |
| 365    | 0                        | NR            | 495    | 468                      | NR            | 625    | 849                      | NR            | 755    | 42                       | NR            | 885    | 1                        | NR            |
| 370    | 0                        | NR            | 500    | 547                      | NR            | 630    | 819                      | NR            | 760    | 36                       | NR            | 890    | 1                        | NR            |
| 375    | 0                        | NR            | 505    | 609                      | NR            | 635    | 784                      | NR            | 765    | 31                       | NR            | 895    | 1                        | NR            |
| 380    | 0                        | NR            | 510    | 652                      | NR            | 640    | 744                      | NR            | 770    | 27                       | NR            | 900    | 1                        | NR            |
| 385    | 1                        | NR            | 515    | 684                      | NR            | 645    | 697                      | NR            | 775    | 23                       | NR            | 905    | 0                        | NR            |
| 390    | 2                        | NR            | 520    | 702                      | NR            | 650    | 645                      | NR            | 780    | 20                       | NR            | 910    | 0                        | NR            |
| 395    | 4                        | NR            | 525    | 710                      | NR            | 655    | 594                      | NR            | 785    | 17                       | NR            | 915    | 0                        | NR            |
| 400    | 6                        | NR            | 530    | 718                      | NR            | 660    | 541                      | NR            | 790    | 14                       | NR            | 920    | 0                        | NR            |
| 405    | 9                        | NR            | 535    | 723                      | NR            | 665    | 491                      | NR            | 795    | 12                       | NR            | 925    | 0                        | NR            |
| 410    | 15                       | NR            | 540    | 729                      | NR            | 670    | 441                      | NR            | 800    | 11                       | NR            | 930    | 0                        | NR            |
| 415    | 26                       | NR            | 545    | 731                      | NR            | 675    | 395                      | NR            | 805    | 9                        | NR            | 935    | 0                        | NR            |
| 420    | 49                       | NR            | 550    | 731                      | NR            | 680    | 352                      | NR            | 810    | 8                        | NR            | 940    | 0                        | NR            |
| 425    | 95                       | NR            | 555    | 736                      | NR            | 685    | 312                      | NR            | 815    | 7                        | NR            | 945    | 0                        | NR            |
| 430    | 173                      | NR            | 560    | 740                      | NR            | 690    | 275                      | NR            | 820    | 6                        | NR            | 950    | 0                        | NR            |
| 435    | 305                      | NR            | 565    | 746                      | NR            | 695    | 241                      | NR            | 825    | 5                        | NR            | 955    | 0                        | NR            |
| 440    | 511                      | NR            | 570    | 757                      | NR            | 700    | 210                      | NR            | 830    | 4                        | NR            | 960    | 0                        | NR            |
| 445    | 811                      | NR            | 575    | 768                      | NR            | 705    | 184                      | NR            | 835    | 4                        | NR            | 965    | 0                        | NR            |
| 450    | 1000                     | NR            | 580    | 785                      | NR            | 710    | 159                      | NR            | 840    | 3                        | NR            | 970    | 0                        | NR            |
| 455    | 760                      | NR            | 585    | 803                      | NR            | 715    | 139                      | NR            | 845    | 3                        | NR            | 975    | 0                        | NR            |
| 460    | 496                      | NR            | 590    | 826                      | NR            | 720    | 120                      | NR            | 850    | 3                        | NR            | 980    | 0                        | NR            |
| 465    | 392                      | NR            | 595    | 848                      | NR            | 725    | 104                      | NR            | 855    | 2                        | NR            | 985    | 0                        | NR            |
| 470    | 302                      | NR            | 600    | 865                      | NR            | 730    | 89                       | NR            | 860    | 2                        | NR            | 990    | 0                        | NR            |
| 475    | 253                      | NR            | 605    | 879                      | NR            | 735    | 76                       | NR            | 865    | 2                        | NR            | 995    | 0                        | NR            |
| 480    | 269                      | NR            | 610    | 882                      | NR            | 740    | 65                       | NR            | 870    | 1                        | NR            | 1000   | 0                        | NR            |
| 485    | 319                      | NR            | 615    | 881                      | NR            | 745    | 55                       | NR            | 875    | 1                        | NR            |        |                          |               |

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### Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.77

| 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       | 385                         | NR               | 620       | 871                         | NR               | 750       | 49                          | NR               | 880       | 1                           | NR               |
| 365       | 0                           | NR               | 495       | 468                         | NR               | 625       | 849                         | NR               | 755       | 42                          | NR               | 885       | 1                           | NR               |
| 370       | 0                           | NR               | 500       | 547                         | NR               | 630       | 819                         | NR               | 760       | 36                          | NR               | 890       | 1                           | NR               |
| 375       | 0                           | NR               | 505       | 609                         | NR               | 635       | 784                         | NR               | 765       | 31                          | NR               | 895       | 1                           | NR               |
| 380       | 0                           | NR               | 510       | 652                         | NR               | 640       | 744                         | NR               | 770       | 27                          | NR               | 900       | 1                           | NR               |
| 385       | 1                           | NR               | 515       | 684                         | NR               | 645       | 697                         | NR               | 775       | 23                          | NR               | 905       | 0                           | NR               |
| 390       | 2                           | NR               | 520       | 702                         | NR               | 650       | 645                         | NR               | 780       | 20                          | NR               | 910       | 0                           | NR               |
| 395       | 4                           | NR               | 525       | 710                         | NR               | 655       | 594                         | NR               | 785       | 17                          | NR               | 915       | 0                           | NR               |
| 400       | 6                           | NR               | 530       | 718                         | NR               | 660       | 541                         | NR               | 790       | 14                          | NR               | 920       | 0                           | NR               |
| 405       | 9                           | NR               | 535       | 723                         | NR               | 665       | 491                         | NR               | 795       | 12                          | NR               | 925       | 0                           | NR               |
| 410       | 15                          | NR               | 540       | 729                         | NR               | 670       | 441                         | NR               | 800       | 11                          | NR               | 930       | 0                           | NR               |
| 415       | 26                          | NR               | 545       | 731                         | NR               | 675       | 395                         | NR               | 805       | 9                           | NR               | 935       | 0                           | NR               |
| 420       | 49                          | NR               | 550       | 731                         | NR               | 680       | 352                         | NR               | 810       | 8                           | NR               | 940       | 0                           | NR               |
| 425       | 95                          | NR               | 555       | 736                         | NR               | 685       | 312                         | NR               | 815       | 7                           | NR               | 945       | 0                           | NR               |
| 430       | 173                         | NR               | 560       | 740                         | NR               | 690       | 275                         | NR               | 820       | 6                           | NR               | 950       | 0                           | NR               |
| 435       | 305                         | NR               | 565       | 746                         | NR               | 695       | 241                         | NR               | 825       | 5                           | NR               | 955       | 0                           | NR               |
| 440       | 511                         | NR               | 570       | 757                         | NR               | 700       | 210                         | NR               | 830       | 4                           | NR               | 960       | 0                           | NR               |
| 445       | 811                         | NR               | 575       | 768                         | NR               | 705       | 184                         | NR               | 835       | 4                           | NR               | 965       | 0                           | NR               |
| 450       | 1000                        | NR               | 580       | 785                         | NR               | 710       | 159                         | NR               | 840       | 3                           | NR               | 970       | 0                           | NR               |
| 455       | 760                         | NR               | 585       | 803                         | NR               | 715       | 139                         | NR               | 845       | 3                           | NR               | 975       | 0                           | NR               |
| 460       | 496                         | NR               | 590       | 826                         | NR               | 720       | 120                         | NR               | 850       | 3                           | NR               | 980       | 0                           | NR               |
| 465       | 392                         | NR               | 595       | 848                         | NR               | 725       | 104                         | NR               | 855       | 2                           | NR               | 985       | 0                           | NR               |
| 470       | 302                         | NR               | 600       | 865                         | NR               | 730       | 89                          | NR               | 860       | 2                           | NR               | 990       | 0                           | NR               |
| 475       | 253                         | NR               | 605       | 879                         | NR               | 735       | 76                          | NR               | 865       | 2                           | NR               | 995       | 0                           | NR               |
| 480       | 269                         | NR               | 610       | 882                         | NR               | 740       | 65                          | NR               | 870       | 1                           | NR               | 1000      | 0                           | NR               |
| 485       | 319                         | NR               | 615       | 881                         | NR               | 745       | 55                          | NR               | 875       | 1                           | NR               |           |                             |                  |

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### Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.62

| 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    | 385                      | NR            | 620    | 871                      | NR            | 750    | 49                       | NR            | 880    | 1                        | NR            |
| 365    | 0                        | NR            | 495    | 468                      | NR            | 625    | 849                      | NR            | 755    | 42                       | NR            | 885    | 1                        | NR            |
| 370    | 0                        | NR            | 500    | 547                      | NR            | 630    | 819                      | NR            | 760    | 36                       | NR            | 890    | 1                        | NR            |
| 375    | 0                        | NR            | 505    | 609                      | NR            | 635    | 784                      | NR            | 765    | 31                       | NR            | 895    | 1                        | NR            |
| 380    | 0                        | NR            | 510    | 652                      | NR            | 640    | 744                      | NR            | 770    | 27                       | NR            | 900    | 1                        | NR            |
| 385    | 1                        | NR            | 515    | 684                      | NR            | 645    | 697                      | NR            | 775    | 23                       | NR            | 905    | 0                        | NR            |
| 390    | 2                        | NR            | 520    | 702                      | NR            | 650    | 645                      | NR            | 780    | 20                       | NR            | 910    | 0                        | NR            |
| 395    | 4                        | NR            | 525    | 710                      | NR            | 655    | 594                      | NR            | 785    | 17                       | NR            | 915    | 0                        | NR            |
| 400    | 6                        | NR            | 530    | 718                      | NR            | 660    | 541                      | NR            | 790    | 14                       | NR            | 920    | 0                        | NR            |
| 405    | 9                        | NR            | 535    | 723                      | NR            | 665    | 491                      | NR            | 795    | 12                       | NR            | 925    | 0                        | NR            |
| 410    | 15                       | NR            | 540    | 729                      | NR            | 670    | 441                      | NR            | 800    | 11                       | NR            | 930    | 0                        | NR            |
| 415    | 26                       | NR            | 545    | 731                      | NR            | 675    | 395                      | NR            | 805    | 9                        | NR            | 935    | 0                        | NR            |
| 420    | 49                       | NR            | 550    | 731                      | NR            | 680    | 352                      | NR            | 810    | 8                        | NR            | 940    | 0                        | NR            |
| 425    | 95                       | NR            | 555    | 736                      | NR            | 685    | 312                      | NR            | 815    | 7                        | NR            | 945    | 0                        | NR            |
| 430    | 173                      | NR            | 560    | 740                      | NR            | 690    | 275                      | NR            | 820    | 6                        | NR            | 950    | 0                        | NR            |
| 435    | 305                      | NR            | 565    | 746                      | NR            | 695    | 241                      | NR            | 825    | 5                        | NR            | 955    | 0                        | NR            |
| 440    | 511                      | NR            | 570    | 757                      | NR            | 700    | 210                      | NR            | 830    | 4                        | NR            | 960    | 0                        | NR            |
| 445    | 811                      | NR            | 575    | 768                      | NR            | 705    | 184                      | NR            | 835    | 4                        | NR            | 965    | 0                        | NR            |
| 450    | 1000                     | NR            | 580    | 785                      | NR            | 710    | 159                      | NR            | 840    | 3                        | NR            | 970    | 0                        | NR            |
| 455    | 760                      | NR            | 585    | 803                      | NR            | 715    | 139                      | NR            | 845    | 3                        | NR            | 975    | 0                        | NR            |
| 460    | 496                      | NR            | 590    | 826                      | NR            | 720    | 120                      | NR            | 850    | 3                        | NR            | 980    | 0                        | NR            |
| 465    | 392                      | NR            | 595    | 848                      | NR            | 725    | 104                      | NR            | 855    | 2                        | NR            | 985    | 0                        | NR            |
| 470    | 302                      | NR            | 600    | 865                      | NR            | 730    | 89                       | NR            | 860    | 2                        | NR            | 990    | 0                        | NR            |
| 475    | 253                      | NR            | 605    | 879                      | NR            | 735    | 76                       | NR            | 865    | 2                        | NR            | 995    | 0                        | NR            |
| 480    | 269                      | NR            | 610    | 882                      | NR            | 740    | 65                       | NR            | 870    | 1                        | NR            | 1000   | 0                        | NR            |
| 485    | 319                      | NR            | 615    | 881                      | NR            | 745    | 55                       | NR            | 875    | 1                        | NR            |        |                          |               |

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**TM-30-18**
**Summary**
 $R_f = 91.5$   
 $R_g = 100.3$   
 CIE  $R_a = 92.3$   
 $R_9 = 58.4$ 

**Color Vector Graphics**


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

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



Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)