

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P77524

Luminaire Tested: **DFN2DS-RG2F0-040DS930-FLL-1DUDD-W**

Issue Date: 02/20/2024

Test Information

Test Method: LM-79-08
Report Number: P77524
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2401-290-9)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: DFN2DS-RG2F0-040DS930-FLL-1DUDD-W
Description: Define Geo Ring 2ft Diameter Direct Light Only Fixture with Frosted Lens
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

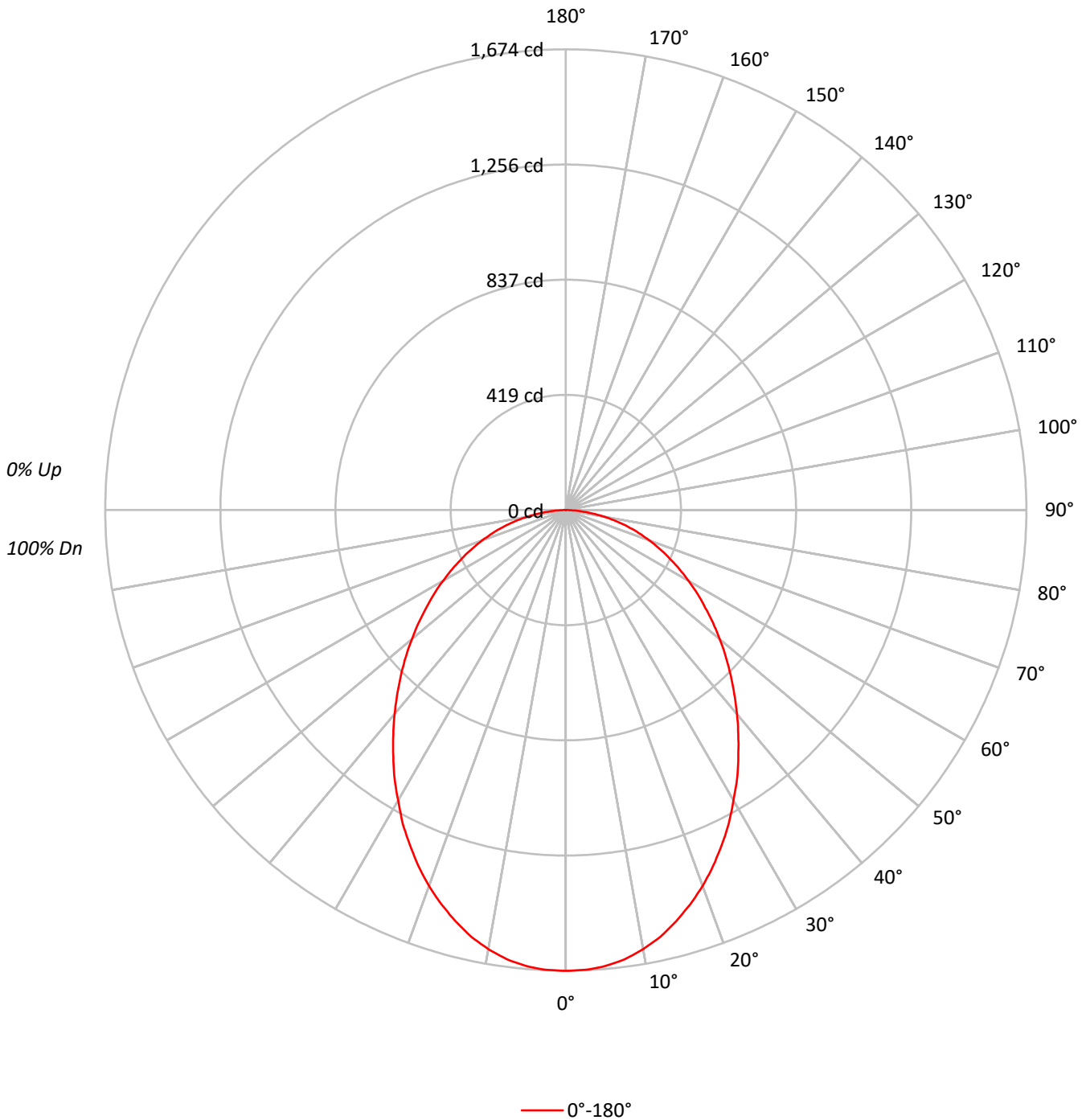
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3830.5 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.21
Luminous Opening: Circular (Dia: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 55.4
Input Voltage (V): 120
Input Current (A_{in}): 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: 25 FT

TEST NUMBER: P77524
CATALOG NUMBER: DFN2DS-RG2F0-040DS930-FLL-1DUDD-W

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
 1121 Highway 74 South
 Peachtree City, GA 30269



TEST NUMBER: P77524

CATALOG NUMBER: DFN2DS-RG2F0-040DS930-FLL-1DUDD-W

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | | | | |
| RC | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | | | 0 | |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | 100 |
| 1 | 109 | 105 | 100 | 97 | 106 | 102 | 99 | 95 | 98 | 95 | 92 | 94 | 92 | 89 | 91 | 89 | 87 | 85 | | | 85 |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 77 | 73 | 71 | | | 71 |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 77 | 70 | 65 | 74 | 68 | 64 | 71 | 67 | 63 | 61 | | | 61 |
| 4 | 84 | 72 | 64 | 57 | 82 | 71 | 63 | 57 | 68 | 62 | 56 | 66 | 60 | 55 | 64 | 59 | 55 | 52 | | | 52 |
| 5 | 77 | 65 | 56 | 50 | 75 | 64 | 56 | 50 | 62 | 55 | 49 | 60 | 53 | 48 | 58 | 52 | 48 | 46 | | | 46 |
| 6 | 72 | 59 | 50 | 44 | 70 | 58 | 50 | 44 | 56 | 49 | 43 | 54 | 48 | 43 | 53 | 47 | 43 | 41 | | | 41 |
| 7 | 67 | 54 | 45 | 39 | 65 | 53 | 45 | 39 | 51 | 44 | 39 | 50 | 43 | 38 | 48 | 43 | 38 | 36 | | | 36 |
| 8 | 62 | 49 | 41 | 35 | 61 | 48 | 40 | 35 | 47 | 40 | 35 | 46 | 39 | 35 | 45 | 39 | 34 | 32 | | | 32 |
| 9 | 58 | 45 | 37 | 32 | 57 | 45 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 31 | 41 | 36 | 31 | 29 | | | 29 |
| 10 | 55 | 42 | 34 | 29 | 54 | 41 | 34 | 29 | 40 | 34 | 29 | 39 | 33 | 29 | 39 | 33 | 29 | 27 | | | 27 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|------|
| | 0° |
| 0° | 5737 |
| 5° | 5720 |
| 10° | 5637 |
| 15° | 5488 |
| 20° | 5301 |
| 25° | 5072 |
| 30° | 4820 |
| 35° | 4573 |
| 40° | 4330 |
| 45° | 4102 |
| 50° | 3895 |
| 55° | 3695 |
| 60° | 3535 |
| 65° | 3378 |
| 70° | 3239 |
| 75° | 3092 |
| 80° | 2839 |
| 85° | 2205 |



TEST NUMBER: P77524
 CATALOG NUMBER: DFN2DS-RG2F0-040DS930-FLL-1DUDD-W

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 157.4 | 4.1 |
| 10°-20° | 435.2 | 11.4 |
| 20°-30° | 617.2 | 16.1 |
| 30°-40° | 683.9 | 17.9 |
| 40°-50° | 654.0 | 17.1 |
| 50°-60° | 555.4 | 14.5 |
| 60°-70° | 413.6 | 10.8 |
| 70°-80° | 246.4 | 6.4 |
| 80°-90° | 67.4 | 1.8 |
| 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° | 1209.8 | 31.6 |
| 0°-40° | 1893.8 | 49.4 |
| 0°-60° | 3103.2 | 81.0 |
| 0°-90° | 3830.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3830.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|------|------|
| 0° | 1674 | |
| 5° | 1663 | 157 |
| 15° | 1547 | 435 |
| 25° | 1342 | 617 |
| 35° | 1093 | 684 |
| 45° | 846 | 654 |
| 55° | 618 | 555 |
| 65° | 417 | 414 |
| 75° | 234 | 246 |
| 85° | 56 | 65 |
| 90° | 0 | 3 |
| 95° | 0 | 0 |
| 105° | 0 | 0 |
| 115° | 0 | 0 |
| 125° | 0 | 0 |
| 135° | 0 | 0 |
| 145° | 0 | 0 |
| 155° | 0 | 0 |
| 165° | 0 | 0 |
| 175° | 0 | 0 |
| 180° | 0 | 0 |



TEST NUMBER: P77524

CATALOG NUMBER: DFN2DS-RG2F0-040DS930-FLL-1DUDD-W

CANDELA DISTRIBUTION (FULL):

| 0° | |
|--------|--------|
| 0° | 1674.4 |
| 2.5° | 1672.5 |
| 5° | 1663.2 |
| 7.5° | 1646.4 |
| 10° | 1620.2 |
| 12.5° | 1588.4 |
| 15° | 1547.3 |
| 17.5° | 1502.5 |
| 20° | 1453.9 |
| 22.5° | 1399.7 |
| 25° | 1341.7 |
| 27.5° | 1283.8 |
| 30° | 1218.4 |
| 32.5° | 1158.6 |
| 35° | 1093.2 |
| 37.5° | 1029.7 |
| 40° | 968.0 |
| 42.5° | 906.3 |
| 45° | 846.5 |
| 47.5° | 788.6 |
| 50° | 730.7 |
| 52.5° | 674.6 |
| 55° | 618.5 |
| 57.5° | 568.1 |
| 60° | 515.8 |
| 62.5° | 465.3 |
| 65° | 416.7 |
| 67.5° | 370.0 |
| 70° | 323.3 |
| 72.5° | 278.4 |
| 75° | 233.6 |
| 77.5° | 188.7 |
| 80° | 143.9 |
| 82.5° | 99.0 |
| 85° | 56.1 |
| 87.5° | 20.6 |
| 90° | 0.0 |
| 92.5° | 0.0 |
| 95° | 0.0 |
| 97.5° | 0.0 |
| 100° | 0.0 |
| 102.5° | 0.0 |
| 105° | 0.0 |
| 107.5° | 0.0 |
| 110° | 0.0 |



TEST NUMBER: P77524
CATALOG NUMBER: DFN2DS-RG2F0-040DS930-FLL-1DUDD-W

CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|-----|
| 112.5° | 0.0 |
| 115° | 0.0 |
| 117.5° | 0.0 |
| 120° | 0.0 |
| 122.5° | 0.0 |
| 125° | 0.0 |
| 127.5° | 0.0 |
| 130° | 0.0 |
| 132.5° | 0.0 |
| 135° | 0.0 |
| 137.5° | 0.0 |
| 140° | 0.0 |
| 142.5° | 0.0 |
| 145° | 0.0 |
| 147.5° | 0.0 |
| 150° | 0.0 |
| 152.5° | 0.0 |
| 155° | 0.0 |
| 157.5° | 0.0 |
| 160° | 0.0 |
| 162.5° | 0.0 |
| 165° | 0.0 |
| 167.5° | 0.0 |
| 170° | 0.0 |
| 172.5° | 0.0 |
| 175° | 0.0 |
| 177.5° | 0.0 |
| 180° | 0.0 |

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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

Report Prepared for

Cooper Lighting Solutions

NEO-RAY

Report Number: SP1-2401-290-2

Test Date: 01/18/2024

Luminaire Tested: RNG2DIP-RG2F0-020D020US930-FLL-FLL-1-D-UDD-W

Data in this report applies to families of products including RNG2DIP-RG2F0-020D020US930-FLL-FLL-1-D-UDD-W.

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2401-290-2
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 01/19/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: NEO-RAY
 Catalog Number: **RNG2DIP-RG2F0-020D020US930-FLL-FLL-1-D-UDD-W**
 Description: 2' RING DIRECT/INDIRECT FIXTURE WITH FROSTED LIGHT LEVEL 1

Spectral Parameters

CCT (K): 2931
 CIE u': 0.2524
 CIE v': 0.5253
 Duv: 0.0018
 CIE x: 0.4446
 CIE y: 0.4112
 CIE z: 0.1443
 Peak Wavelength (nm): 629
 Dominant Wavelength (nm): 582
 Purity: 57.1

| | | | |
|-----------|------|------|------|
| CRI (Ra): | 94.7 | | |
| R1: | 95.1 | R9: | 72.1 |
| R2: | 96.3 | R10: | 90.5 |
| R3: | 96.3 | R11: | 96.7 |
| R4: | 95.9 | R12: | 82.6 |
| R5: | 94.4 | R13: | 95.3 |
| R6: | 95.6 | R14: | 97.1 |
| R7: | 95.7 | | |
| R8: | 88.4 | | |

Rf: 93.8
 Rg: 99.3



Test Conditions

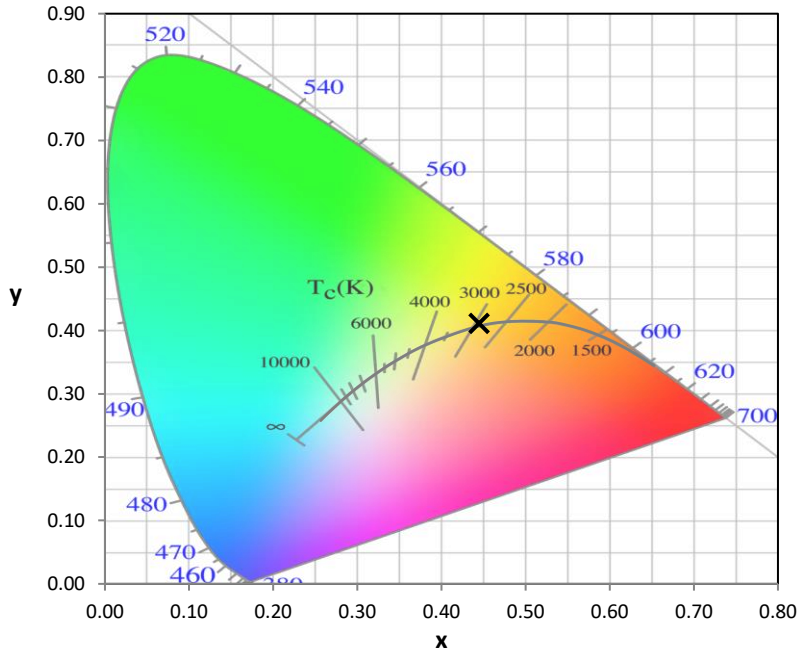
Stabilization Time: 28M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 25.6/15%
 Sphere Temperature (°C): 25.0

REPORT NUMBER: SP1-2401-290-2

| Measurement and Test Equipment | | | |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | 76INCH SPHERE IN0058 | 8/9/2023 | 2/9/2024 |
| Power Meter | XITRON 2801 IN0071 | 10/23/2023 | 10/23/2024 |
| AC Power Source | CHROMA 61603 IN0063 | 10/24/2023 | 10/24/2024 |
| DC Power Source | AGILENT E3634A IN0208 | 10/24/2023 | 10/24/2024 |
| Sphere Thermometer | ONSET IN0085 | 10/24/2023 | 10/24/2024 |
| Room Thermometer | ONSET IN0046 | 10/24/2023 | 10/24/2024 |

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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 7-step quadrangle

REPORT NUMBER: SP1-2401-290-2

Photopic Flux vs. Wavelength



#####

| λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) |
|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|
| 360 | 1461 | NR | 490 | 21821 | NR | 620 | 77901 | NR | 750 | 8179 | NR | 880 | 1643 | NR |
| 365 | 1400 | NR | 495 | 25627 | NR | 625 | 79163 | NR | 755 | 7299 | NR | 885 | 1703 | NR |
| 370 | 1570 | NR | 500 | 29501 | NR | 630 | 79015 | NR | 760 | 6398 | NR | 890 | 1343 | NR |
| 375 | 1768 | NR | 505 | 32566 | NR | 635 | 78215 | NR | 765 | 5779 | NR | 895 | 1272 | NR |
| 380 | 1653 | NR | 510 | 34919 | NR | 640 | 77002 | NR | 770 | 4957 | NR | 900 | 1388 | NR |
| 385 | 1519 | NR | 515 | 37015 | NR | 645 | 74220 | NR | 775 | 4366 | NR | 905 | 1205 | NR |
| 390 | 1495 | NR | 520 | 39034 | NR | 650 | 71542 | NR | 780 | 3858 | NR | 910 | 1298 | NR |
| 395 | 1377 | NR | 525 | 40568 | NR | 655 | 67792 | NR | 785 | 3408 | NR | 915 | 1337 | NR |
| 400 | 1116 | NR | 530 | 42614 | NR | 660 | 63857 | NR | 790 | 3251 | NR | 920 | 1680 | NR |
| 405 | 1027 | NR | 535 | 44347 | NR | 665 | 59357 | NR | 795 | 3012 | NR | 925 | 1293 | NR |
| 410 | 1056 | NR | 540 | 46106 | NR | 670 | 54656 | NR | 800 | 2808 | NR | 930 | 1369 | NR |
| 415 | 1393 | NR | 545 | 48203 | NR | 675 | 49862 | NR | 805 | 2550 | NR | 935 | 1382 | NR |
| 420 | 2045 | NR | 550 | 50008 | NR | 680 | 45198 | NR | 810 | 2478 | NR | 940 | 1295 | NR |
| 425 | 3225 | NR | 555 | 51782 | NR | 685 | 40716 | NR | 815 | 2341 | NR | 945 | 1425 | NR |
| 430 | 5118 | NR | 560 | 53082 | NR | 690 | 36247 | NR | 820 | 2409 | NR | 950 | 1783 | NR |
| 435 | 8200 | NR | 565 | 54447 | NR | 695 | 32175 | NR | 825 | 2301 | NR | 955 | 1148 | NR |
| 440 | 13442 | NR | 570 | 56050 | NR | 700 | 28460 | NR | 830 | 2205 | NR | 960 | 1184 | NR |
| 445 | 23157 | NR | 575 | 57513 | NR | 705 | 25105 | NR | 835 | 1768 | NR | 965 | 1637 | NR |
| 450 | 33968 | NR | 580 | 59394 | NR | 710 | 22282 | NR | 840 | 1774 | NR | 970 | 1795 | NR |
| 455 | 31939 | NR | 585 | 61139 | NR | 715 | 19778 | NR | 845 | 1483 | NR | 975 | 2363 | NR |
| 460 | 23216 | NR | 590 | 63214 | NR | 720 | 17396 | NR | 850 | 1630 | NR | 980 | 1601 | NR |
| 465 | 19706 | NR | 595 | 66121 | NR | 725 | 15186 | NR | 855 | 1763 | NR | 985 | 1282 | NR |
| 470 | 17657 | NR | 600 | 68559 | NR | 730 | 13540 | NR | 860 | 1852 | NR | 990 | 2177 | NR |
| 475 | 15359 | NR | 605 | 71420 | NR | 735 | 11700 | NR | 865 | 1735 | NR | 995 | 970 | NR |
| 480 | 15859 | NR | 610 | 74391 | NR | 740 | 10401 | NR | 870 | 2047 | NR | 1000 | 2032 | NR |
| 485 | 18528 | NR | 615 | 76685 | NR | 745 | 9147 | NR | 875 | 1930 | NR | | | |

REPORT NUMBER: SP1-2401-290-2

Scotopic Flux vs. Wavelength



Scotopic Lumens: 5310.4

S/P: 1.38

| λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) |
|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|
| 360 | 1461 | NR | 490 | 21821 | NR | 620 | 77901 | NR | 750 | 8179 | NR | 880 | 1643 | NR |
| 365 | 1400 | NR | 495 | 25627 | NR | 625 | 79163 | NR | 755 | 7299 | NR | 885 | 1703 | NR |
| 370 | 1570 | NR | 500 | 29501 | NR | 630 | 79015 | NR | 760 | 6398 | NR | 890 | 1343 | NR |
| 375 | 1768 | NR | 505 | 32566 | NR | 635 | 78215 | NR | 765 | 5779 | NR | 895 | 1272 | NR |
| 380 | 1653 | NR | 510 | 34919 | NR | 640 | 77002 | NR | 770 | 4957 | NR | 900 | 1388 | NR |
| 385 | 1519 | NR | 515 | 37015 | NR | 645 | 74220 | NR | 775 | 4366 | NR | 905 | 1205 | NR |
| 390 | 1495 | NR | 520 | 39034 | NR | 650 | 71542 | NR | 780 | 3858 | NR | 910 | 1298 | NR |
| 395 | 1377 | NR | 525 | 40568 | NR | 655 | 67792 | NR | 785 | 3408 | NR | 915 | 1337 | NR |
| 400 | 1116 | NR | 530 | 42614 | NR | 660 | 63857 | NR | 790 | 3251 | NR | 920 | 1680 | NR |
| 405 | 1027 | NR | 535 | 44347 | NR | 665 | 59357 | NR | 795 | 3012 | NR | 925 | 1293 | NR |
| 410 | 1056 | NR | 540 | 46106 | NR | 670 | 54656 | NR | 800 | 2808 | NR | 930 | 1369 | NR |
| 415 | 1393 | NR | 545 | 48203 | NR | 675 | 49862 | NR | 805 | 2550 | NR | 935 | 1382 | NR |
| 420 | 2045 | NR | 550 | 50008 | NR | 680 | 45198 | NR | 810 | 2478 | NR | 940 | 1295 | NR |
| 425 | 3225 | NR | 555 | 51782 | NR | 685 | 40716 | NR | 815 | 2341 | NR | 945 | 1425 | NR |
| 430 | 5118 | NR | 560 | 53082 | NR | 690 | 36247 | NR | 820 | 2409 | NR | 950 | 1783 | NR |
| 435 | 8200 | NR | 565 | 54447 | NR | 695 | 32175 | NR | 825 | 2301 | NR | 955 | 1148 | NR |
| 440 | 13442 | NR | 570 | 56050 | NR | 700 | 28460 | NR | 830 | 2205 | NR | 960 | 1184 | NR |
| 445 | 23157 | NR | 575 | 57513 | NR | 705 | 25105 | NR | 835 | 1768 | NR | 965 | 1637 | NR |
| 450 | 33968 | NR | 580 | 59394 | NR | 710 | 22282 | NR | 840 | 1774 | NR | 970 | 1795 | NR |
| 455 | 31939 | NR | 585 | 61139 | NR | 715 | 19778 | NR | 845 | 1483 | NR | 975 | 2363 | NR |
| 460 | 23216 | NR | 590 | 63214 | NR | 720 | 17396 | NR | 850 | 1630 | NR | 980 | 1601 | NR |
| 465 | 19706 | NR | 595 | 66121 | NR | 725 | 15186 | NR | 855 | 1763 | NR | 985 | 1282 | NR |
| 470 | 17657 | NR | 600 | 68559 | NR | 730 | 13540 | NR | 860 | 1852 | NR | 990 | 2177 | NR |
| 475 | 15359 | NR | 605 | 71420 | NR | 735 | 11700 | NR | 865 | 1735 | NR | 995 | 970 | NR |
| 480 | 15859 | NR | 610 | 74391 | NR | 740 | 10401 | NR | 870 | 2047 | NR | 1000 | 2032 | NR |
| 485 | 18528 | NR | 615 | 76685 | NR | 745 | 9147 | NR | 875 | 1930 | NR | | | |

REPORT NUMBER: SP1-2401-290-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: 2012.9

M/P: 0.52

| λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) |
|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|
| 360 | 1461 | NR | 490 | 21821 | NR | 620 | 77901 | NR | 750 | 8179 | NR | 880 | 1643 | NR |
| 365 | 1400 | NR | 495 | 25627 | NR | 625 | 79163 | NR | 755 | 7299 | NR | 885 | 1703 | NR |
| 370 | 1570 | NR | 500 | 29501 | NR | 630 | 79015 | NR | 760 | 6398 | NR | 890 | 1343 | NR |
| 375 | 1768 | NR | 505 | 32566 | NR | 635 | 78215 | NR | 765 | 5779 | NR | 895 | 1272 | NR |
| 380 | 1653 | NR | 510 | 34919 | NR | 640 | 77002 | NR | 770 | 4957 | NR | 900 | 1388 | NR |
| 385 | 1519 | NR | 515 | 37015 | NR | 645 | 74220 | NR | 775 | 4366 | NR | 905 | 1205 | NR |
| 390 | 1495 | NR | 520 | 39034 | NR | 650 | 71542 | NR | 780 | 3858 | NR | 910 | 1298 | NR |
| 395 | 1377 | NR | 525 | 40568 | NR | 655 | 67792 | NR | 785 | 3408 | NR | 915 | 1337 | NR |
| 400 | 1116 | NR | 530 | 42614 | NR | 660 | 63857 | NR | 790 | 3251 | NR | 920 | 1680 | NR |
| 405 | 1027 | NR | 535 | 44347 | NR | 665 | 59357 | NR | 795 | 3012 | NR | 925 | 1293 | NR |
| 410 | 1056 | NR | 540 | 46106 | NR | 670 | 54656 | NR | 800 | 2808 | NR | 930 | 1369 | NR |
| 415 | 1393 | NR | 545 | 48203 | NR | 675 | 49862 | NR | 805 | 2550 | NR | 935 | 1382 | NR |
| 420 | 2045 | NR | 550 | 50008 | NR | 680 | 45198 | NR | 810 | 2478 | NR | 940 | 1295 | NR |
| 425 | 3225 | NR | 555 | 51782 | NR | 685 | 40716 | NR | 815 | 2341 | NR | 945 | 1425 | NR |
| 430 | 5118 | NR | 560 | 53082 | NR | 690 | 36247 | NR | 820 | 2409 | NR | 950 | 1783 | NR |
| 435 | 8200 | NR | 565 | 54447 | NR | 695 | 32175 | NR | 825 | 2301 | NR | 955 | 1148 | NR |
| 440 | 13442 | NR | 570 | 56050 | NR | 700 | 28460 | NR | 830 | 2205 | NR | 960 | 1184 | NR |
| 445 | 23157 | NR | 575 | 57513 | NR | 705 | 25105 | NR | 835 | 1768 | NR | 965 | 1637 | NR |
| 450 | 33968 | NR | 580 | 59394 | NR | 710 | 22282 | NR | 840 | 1774 | NR | 970 | 1795 | NR |
| 455 | 31939 | NR | 585 | 61139 | NR | 715 | 19778 | NR | 845 | 1483 | NR | 975 | 2363 | NR |
| 460 | 23216 | NR | 590 | 63214 | NR | 720 | 17396 | NR | 850 | 1630 | NR | 980 | 1601 | NR |
| 465 | 19706 | NR | 595 | 66121 | NR | 725 | 15186 | NR | 855 | 1763 | NR | 985 | 1282 | NR |
| 470 | 17657 | NR | 600 | 68559 | NR | 730 | 13540 | NR | 860 | 1852 | NR | 990 | 2177 | NR |
| 475 | 15359 | NR | 605 | 71420 | NR | 735 | 11700 | NR | 865 | 1735 | NR | 995 | 970 | NR |
| 480 | 15859 | NR | 610 | 74391 | NR | 740 | 10401 | NR | 870 | 2047 | NR | 1000 | 2032 | NR |
| 485 | 18528 | NR | 615 | 76685 | NR | 745 | 9147 | NR | 875 | 1930 | NR | | | |

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Summary

$R_f = 93.8$
 $R_g = 99.3$
 $CIE R_a = 94.7$
 $R_9 = 72.1$



Color Vector Graphics



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

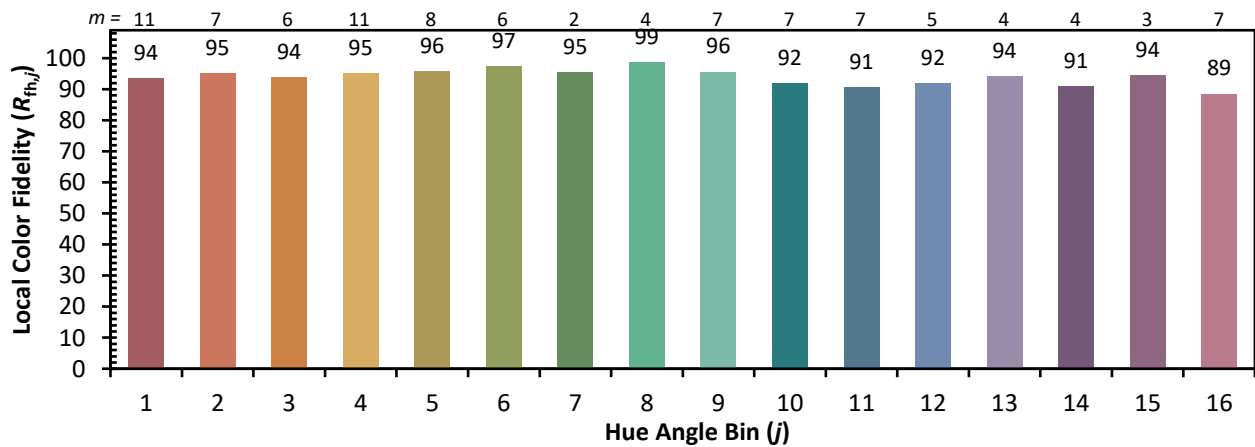
| | | | |
|------------|------------|-------------|------------|
| CES01 = 86 | CES26 = 96 | CES51 = 98 | CES76 = 91 |
| CES02 = 63 | CES27 = 93 | CES52 = 100 | CES77 = 92 |
| CES03 = 32 | CES28 = 97 | CES53 = 98 | CES78 = 88 |
| CES04 = 70 | CES29 = 97 | CES54 = 95 | CES79 = 96 |
| CES05 = 51 | CES30 = 94 | CES55 = 94 | CES80 = 95 |
| CES06 = 51 | CES31 = 97 | CES56 = 96 | CES81 = 87 |
| CES07 = 44 | CES32 = 93 | CES57 = 95 | CES82 = 98 |
| CES08 = 43 | CES33 = 99 | CES58 = 96 | CES83 = 97 |
| CES09 = 29 | CES34 = 96 | CES59 = 98 | CES84 = 96 |
| CES10 = 76 | CES35 = 98 | CES60 = 95 | CES85 = 86 |
| CES11 = 59 | CES36 = 86 | CES61 = 94 | CES86 = 89 |
| CES12 = 65 | CES37 = 95 | CES62 = 91 | CES87 = 94 |
| CES13 = 44 | CES38 = 90 | CES63 = 95 | CES88 = 97 |
| CES14 = 74 | CES39 = 99 | CES64 = 93 | CES89 = 89 |
| CES15 = 72 | CES40 = 98 | CES65 = 92 | CES90 = 97 |
| CES16 = 48 | CES41 = 98 | CES66 = 91 | CES91 = 81 |
| CES17 = 50 | CES42 = 96 | CES67 = 91 | CES92 = 85 |
| CES18 = 57 | CES43 = 97 | CES68 = 91 | CES93 = 91 |
| CES19 = 72 | CES44 = 99 | CES69 = 92 | CES94 = 84 |
| CES20 = 67 | CES45 = 99 | CES70 = 90 | CES95 = 88 |
| CES21 = 86 | CES46 = 98 | CES71 = 87 | CES96 = 94 |
| CES22 = 79 | CES47 = 95 | CES72 = 96 | CES97 = 96 |
| CES23 = 92 | CES48 = 94 | CES73 = 86 | CES98 = 96 |
| CES24 = 91 | CES49 = 97 | CES74 = 92 | CES99 = 94 |
| CES25 = 72 | CES50 = 99 | CES75 = 88 | |



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Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)