

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: P888091

Luminaire Tested: **DPT5-4F029-127V60-A-XX-UDD\_5000K**

Issue Date: 10/24/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P888091  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (DEFINE LENGTH SCALING TOOL)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 10/24/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: DPT5-4F029-127V60-A-XX-UDD\_5000K  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

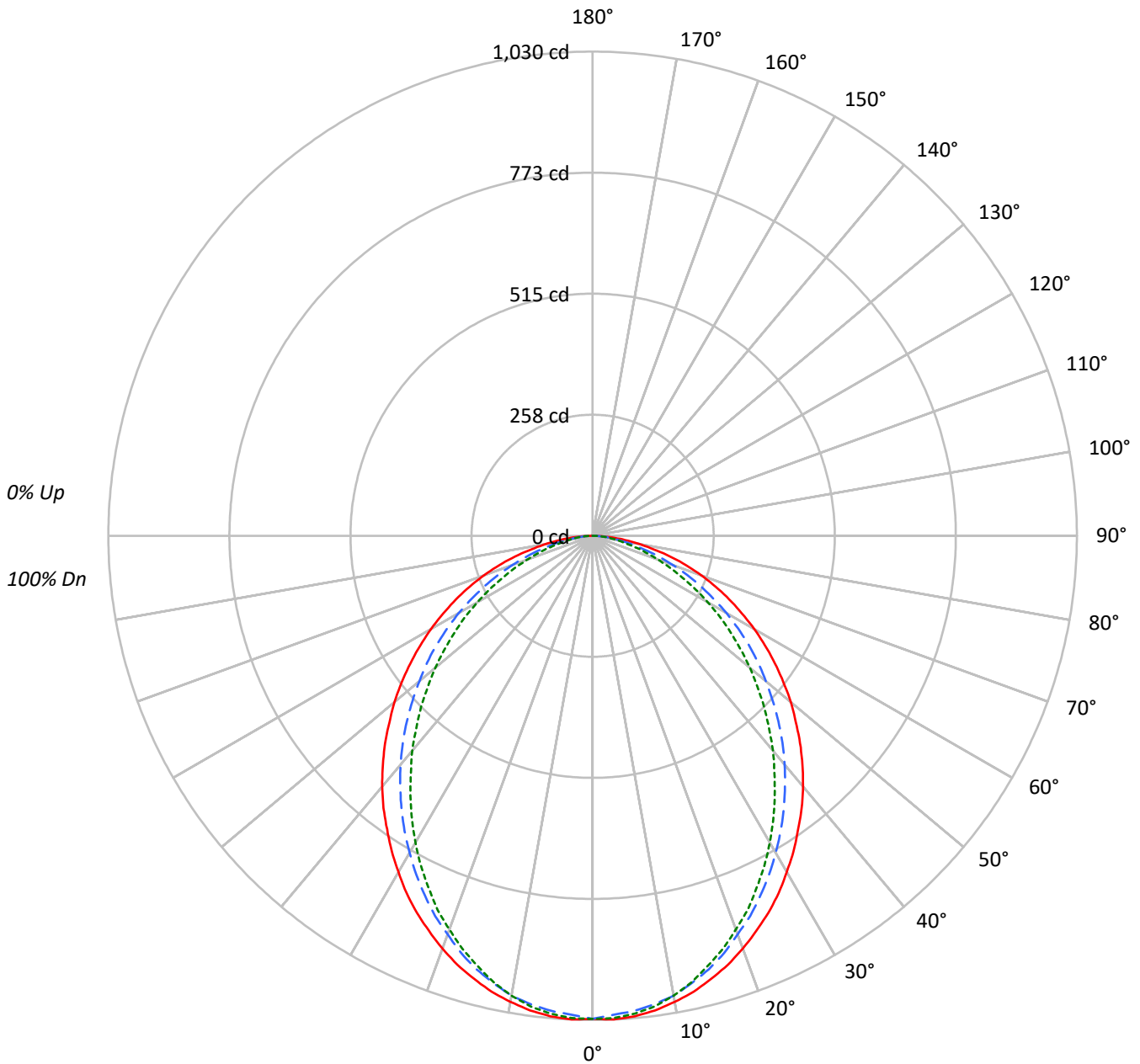
Lumens per Lamp: N/A  
Luminaire Lumens: 2428.0 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')  
CIE Type: Direct

Input Watts (W): 24  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF  | 20  |     |     |     |     |     |     |     |     | 20  |     |     |     |     |     |     |     |     | 20 |    |   |  |  |  |  |  |  | 20 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |     | 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 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 96  | 99  | 96  | 93  | 95  | 92  | 90  | 91  | 89  | 87  | 85  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 100 | 92  | 86  | 80  | 98  | 90  | 84  | 79  | 87  | 82  | 78  | 84  | 79  | 76  | 81  | 77  | 74  | 72  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 92  | 82  | 74  | 68  | 89  | 80  | 73  | 67  | 77  | 71  | 66  | 74  | 69  | 65  | 72  | 67  | 64  | 61  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 84  | 73  | 64  | 58  | 82  | 71  | 64  | 57  | 69  | 62  | 57  | 67  | 61  | 56  | 64  | 59  | 55  | 53  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 78  | 65  | 57  | 50  | 76  | 64  | 56  | 50  | 62  | 55  | 49  | 60  | 54  | 49  | 58  | 53  | 48  | 46  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 72  | 59  | 50  | 44  | 70  | 58  | 50  | 44  | 56  | 49  | 44  | 55  | 48  | 43  | 53  | 47  | 43  | 41  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 67  | 54  | 45  | 39  | 65  | 53  | 45  | 39  | 51  | 44  | 39  | 50  | 43  | 39  | 49  | 43  | 38  | 36  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 62  | 49  | 41  | 35  | 61  | 48  | 41  | 35  | 47  | 40  | 35  | 46  | 39  | 35  | 45  | 39  | 34  | 33  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 58  | 45  | 37  | 32  | 57  | 45  | 37  | 32  | 44  | 37  | 32  | 42  | 36  | 31  | 41  | 36  | 31  | 29  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 55  | 42  | 34  | 29  | 54  | 41  | 34  | 29  | 40  | 34  | 29  | 39  | 33  | 29  | 39  | 33  | 29  | 27  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 12239 | 12239 | 12239 |
| 5°  | 12267 | 12128 | 12200 |
| 10° | 12174 | 12015 | 12015 |
| 15° | 12030 | 11770 | 11676 |
| 20° | 11843 | 11431 | 11294 |
| 25° | 11627 | 11096 | 10853 |
| 30° | 11358 | 10706 | 10365 |
| 35° | 11082 | 10304 | 9818  |
| 40° | 10825 | 9883  | 9280  |
| 45° | 10510 | 9412  | 8694  |
| 50° | 10196 | 8903  | 8084  |
| 55° | 9832  | 8416  | 7431  |
| 60° | 9466  | 7820  | 6729  |
| 65° | 9035  | 7132  | 5924  |
| 70° | 8542  | 6268  | 5108  |
| 75° | 7859  | 5287  | 4252  |
| 80° | 6920  | 4156  | 3573  |
| 85° | 5821  | 3403  | 3184  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 96.7   | 4.0       |
| 10°-20°   | 270.3  | 11.1      |
| 20°-30°   | 391.9  | 16.1      |
| 30°-40°   | 446.5  | 18.4      |
| 40°-50°   | 435.2  | 17.9      |
| 50°-60°   | 366.3  | 15.1      |
| 60°-70°   | 256.7  | 10.6      |
| 70°-80°   | 131.6  | 5.4       |
| 80°-90°   | 32.8   | 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°    | 758.9  | 31.3      |
| 0°-40°    | 1205.5 | 49.6      |
| 0°-60°    | 2006.9 | 82.7      |
| 0°-90°    | 2428.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2428.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1028 | 1028  | 1028 | 1028  | 1028 |      |
| 5°  | 1026 | 1023  | 1014 | 1022  | 1020 | 97   |
| 15° | 976  | 971   | 955  | 954   | 947  | 275  |
| 25° | 885  | 873   | 844  | 834   | 826  | 407  |
| 35° | 762  | 744   | 709  | 686   | 675  | 477  |
| 45° | 624  | 602   | 559  | 528   | 516  | 481  |
| 55° | 474  | 449   | 405  | 370   | 358  | 423  |
| 65° | 321  | 294   | 253  | 222   | 210  | 317  |
| 75° | 171  | 147   | 115  | 98    | 92   | 180  |
| 85° | 43   | 29    | 25   | 24    | 23   | 49   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1027.7 | 1027.7 | 1027.7 | 1027.7 | 1027.7 |
| 2.5°  | 1030.0 | 1027.7 | 1019.9 | 1027.7 | 1026.9 |
| 5°    | 1026.1 | 1023.1 | 1014.5 | 1022.1 | 1020.5 |
| 7.5°  | 1018.4 | 1015.2 | 1005.1 | 1011.3 | 1009.9 |
| 10°   | 1006.7 | 1004.4 | 993.5  | 995.9  | 993.5  |
| 12.5° | 993.5  | 990.3  | 974.7  | 976.3  | 972.6  |
| 15°   | 975.7  | 971.0  | 954.6  | 953.9  | 947.0  |
| 17.5° | 957.0  | 950.1  | 930.5  | 926.8  | 921.3  |
| 20°   | 934.4  | 926.8  | 901.9  | 898.0  | 891.1  |
| 22.5° | 909.7  | 901.9  | 875.7  | 867.0  | 861.4  |
| 25°   | 884.8  | 873.1  | 844.4  | 834.4  | 825.9  |
| 27.5° | 857.0  | 842.9  | 812.6  | 799.5  | 791.0  |
| 30°   | 825.9  | 811.2  | 778.5  | 760.8  | 753.7  |
| 32.5° | 795.5  | 777.8  | 744.4  | 724.2  | 715.0  |
| 35°   | 762.2  | 743.7  | 708.7  | 686.2  | 675.3  |
| 37.5° | 730.4  | 707.8  | 672.1  | 645.9  | 634.8  |
| 40°   | 696.3  | 673.0  | 635.7  | 606.2  | 596.9  |
| 42.5° | 660.4  | 636.4  | 597.5  | 569.7  | 554.9  |
| 45°   | 624.0  | 601.7  | 558.8  | 527.8  | 516.2  |
| 47.5° | 585.9  | 562.8  | 519.9  | 488.2  | 475.0  |
| 50°   | 550.3  | 524.7  | 480.5  | 447.9  | 436.3  |
| 52.5° | 511.4  | 485.2  | 443.9  | 408.2  | 396.5  |
| 55°   | 473.5  | 448.6  | 405.3  | 370.3  | 357.9  |
| 57.5° | 434.7  | 408.2  | 366.4  | 332.2  | 321.4  |
| 60°   | 397.4  | 370.3  | 328.3  | 294.1  | 282.5  |
| 62.5° | 357.9  | 332.2  | 289.5  | 258.4  | 246.8  |
| 65°   | 320.6  | 294.1  | 253.1  | 221.9  | 210.2  |
| 67.5° | 283.2  | 257.0  | 217.3  | 187.9  | 178.7  |
| 70°   | 245.3  | 218.8  | 180.0  | 155.9  | 146.7  |
| 72.5° | 208.0  | 182.4  | 146.7  | 125.0  | 119.6  |
| 75°   | 170.8  | 147.4  | 114.9  | 97.9   | 92.4   |
| 77.5° | 132.6  | 114.0  | 86.8   | 73.9   | 69.1   |
| 80°   | 100.9  | 82.4   | 60.6   | 53.6   | 52.1   |
| 82.5° | 69.8   | 53.6   | 40.5   | 37.9   | 37.3   |
| 85°   | 42.6   | 28.7   | 24.9   | 24.0   | 23.3   |
| 87.5° | 18.0   | 12.4   | 11.7   | 11.7   | 10.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)