

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: P892199

Luminaire Tested: **0527S**

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: P892199
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P264347)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/24/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: 0527S
Description: Define Patient, Downlight with Spot 15deg

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

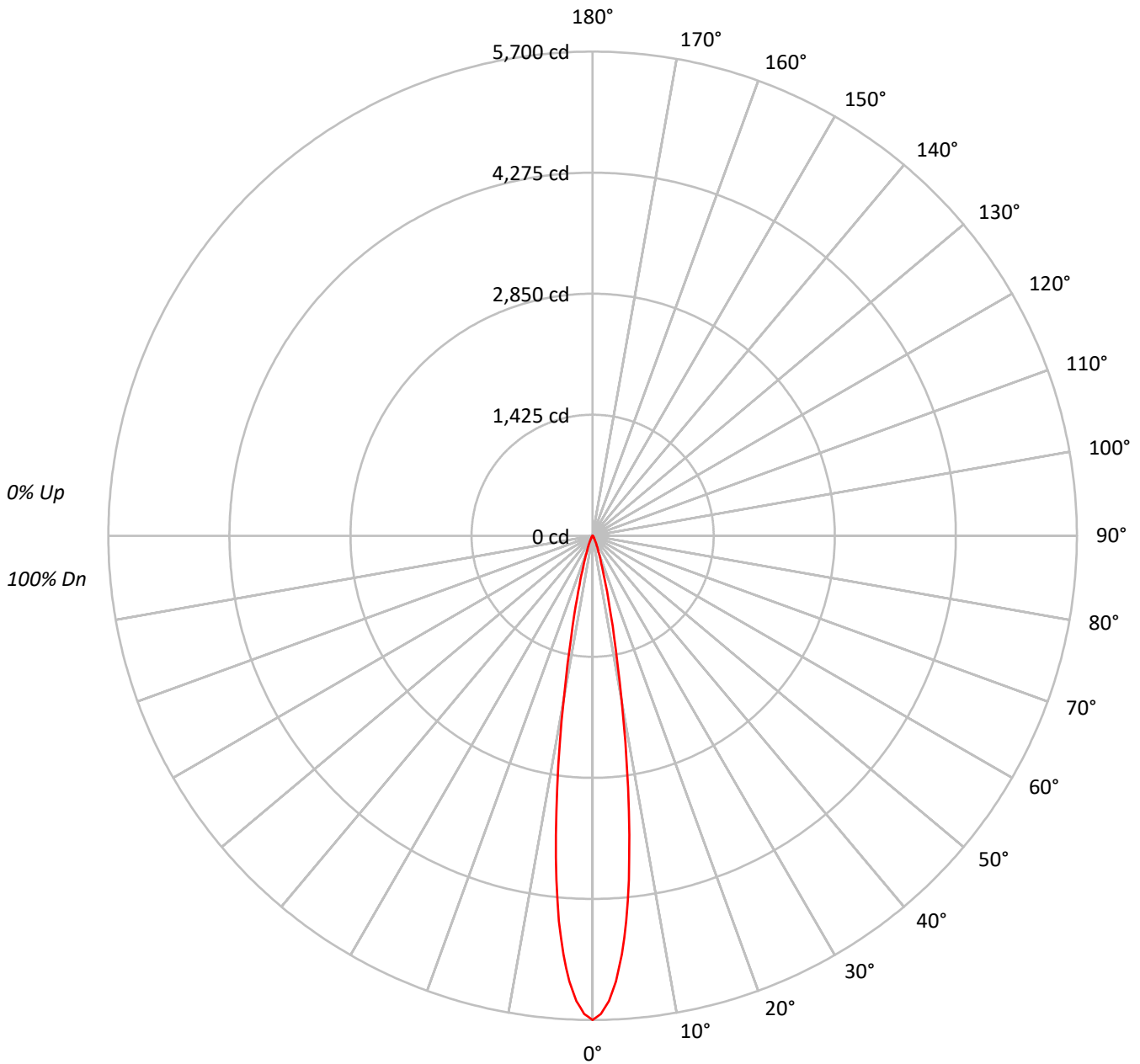
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 596.0 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Spacing Criteria (0/90/45): 0.28 / 0.28 / 0.28
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.3
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: 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 | | | | 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 | 116 | 114 | 112 | 111 | 113 | 112 | 110 | 109 | 108 | 107 | 106 | 104 | 103 | 102 | 101 | 100 | 100 | 98 | | | | 98 |
| 2 | 113 | 109 | 107 | 105 | 111 | 108 | 106 | 104 | 105 | 103 | 101 | 102 | 101 | 99 | 99 | 98 | 97 | 96 | | | | 96 |
| 3 | 110 | 106 | 103 | 100 | 108 | 105 | 102 | 100 | 102 | 100 | 98 | 100 | 98 | 97 | 98 | 96 | 95 | 94 | | | | 94 |
| 4 | 107 | 103 | 99 | 97 | 106 | 102 | 99 | 96 | 100 | 97 | 95 | 98 | 96 | 94 | 96 | 95 | 93 | 92 | | | | 92 |
| 5 | 105 | 100 | 97 | 94 | 104 | 99 | 96 | 94 | 98 | 95 | 93 | 96 | 94 | 92 | 95 | 93 | 91 | 90 | | | | 90 |
| 6 | 103 | 98 | 94 | 92 | 102 | 97 | 94 | 91 | 96 | 93 | 91 | 95 | 92 | 90 | 93 | 91 | 90 | 89 | | | | 89 |
| 7 | 101 | 95 | 92 | 90 | 100 | 95 | 92 | 89 | 94 | 91 | 89 | 93 | 90 | 89 | 92 | 90 | 88 | 87 | | | | 87 |
| 8 | 99 | 93 | 90 | 88 | 98 | 93 | 90 | 88 | 92 | 89 | 87 | 91 | 89 | 87 | 91 | 88 | 87 | 86 | | | | 86 |
| 9 | 97 | 92 | 88 | 86 | 96 | 91 | 88 | 86 | 91 | 88 | 86 | 90 | 87 | 86 | 89 | 87 | 85 | 85 | | | | 85 |
| 10 | 95 | 90 | 87 | 85 | 95 | 90 | 87 | 85 | 89 | 86 | 85 | 89 | 86 | 84 | 88 | 86 | 84 | 83 | | | | 83 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|---------|
| | 0° |
| 0° | 2812521 |
| 5° | 2254402 |
| 10° | 983950 |
| 15° | 304939 |
| 20° | 106269 |
| 25° | 46981 |
| 30° | 21250 |
| 35° | 11022 |
| 40° | 6312 |
| 45° | 3000 |
| 50° | 1842 |
| 55° | 1118 |
| 60° | 592 |
| 65° | 700 |
| 70° | 0 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 345.7 | 58.0 |
| 10°-20° | 189.3 | 31.8 |
| 20°-30° | 43.1 | 7.2 |
| 30°-40° | 12.4 | 2.1 |
| 40°-50° | 3.8 | 0.6 |
| 50°-60° | 1.1 | 0.2 |
| 60°-70° | 0.5 | 0.1 |
| 70°-80° | 0.0 | 0.0 |
| 80°-90° | 0.0 | 0.0 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 578.1 | 97.0 |
| 0°-40° | 590.5 | 99.1 |
| 0°-60° | 595.5 | 99.9 |
| 0°-90° | 596.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 596.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 5700 | |
| 5° | 4552 | 346 |
| 15° | 597 | 189 |
| 25° | 86 | 43 |
| 35° | 18 | 12 |
| 45° | 4 | 4 |
| 55° | 1 | 1 |
| 65° | 1 | 1 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 5700.5 |
| 1° | 5629.5 |
| 2° | 5482.2 |
| 3° | 5253.4 |
| 4° | 4939.0 |
| 5° | 4551.9 |
| 6° | 4077.2 |
| 7° | 3546.9 |
| 8° | 2993.3 |
| 9° | 2457.6 |
| 10° | 1964.0 |
| 11° | 1546.2 |
| 12° | 1217.2 |
| 13° | 957.9 |
| 14° | 756.6 |
| 15° | 597.0 |
| 16° | 471.0 |
| 17° | 375.0 |
| 18° | 301.6 |
| 19° | 245.3 |
| 20° | 202.4 |
| 22.5° | 130.9 |
| 25° | 86.3 |
| 26° | 72.7 |
| 27° | 61.7 |
| 28° | 52.0 |
| 29° | 43.4 |
| 30° | 37.3 |
| 32.5° | 25.7 |
| 35° | 18.3 |
| 37.5° | 13.4 |
| 40° | 9.8 |
| 42.5° | 6.7 |
| 45° | 4.3 |
| 47.5° | 3.0 |
| 50° | 2.4 |
| 52.5° | 1.8 |
| 55° | 1.3 |
| 57.5° | 0.6 |
| 60° | 0.6 |
| 62.5° | 0.6 |
| 65° | 0.6 |
| 67.5° | 0.6 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|-----|
| 75° | 0.0 |
| 77.5° | 0.0 |
| 80° | 0.0 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |



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— 0°-180°







| | | |
|-------|--|-----|
| 70° | | 0.0 |
| 72.5° | | 0.0 |



(END OF REPORT)