

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: PORTFOLIO

Report Number: P857325

Luminaire Tested: **LD4C02D010 EU4029050 4LBHYH**

Issue Date: 10/18/2023



Test Information

Test Method: LM-79-08
Report Number: P857325
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-7)
Test Lab: INNOVATION CENTER
Issue Date: 10/18/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C02D010 EU4029050 4LBHYH
Description: 4 INCH 250 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS AND 4LCHYP TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

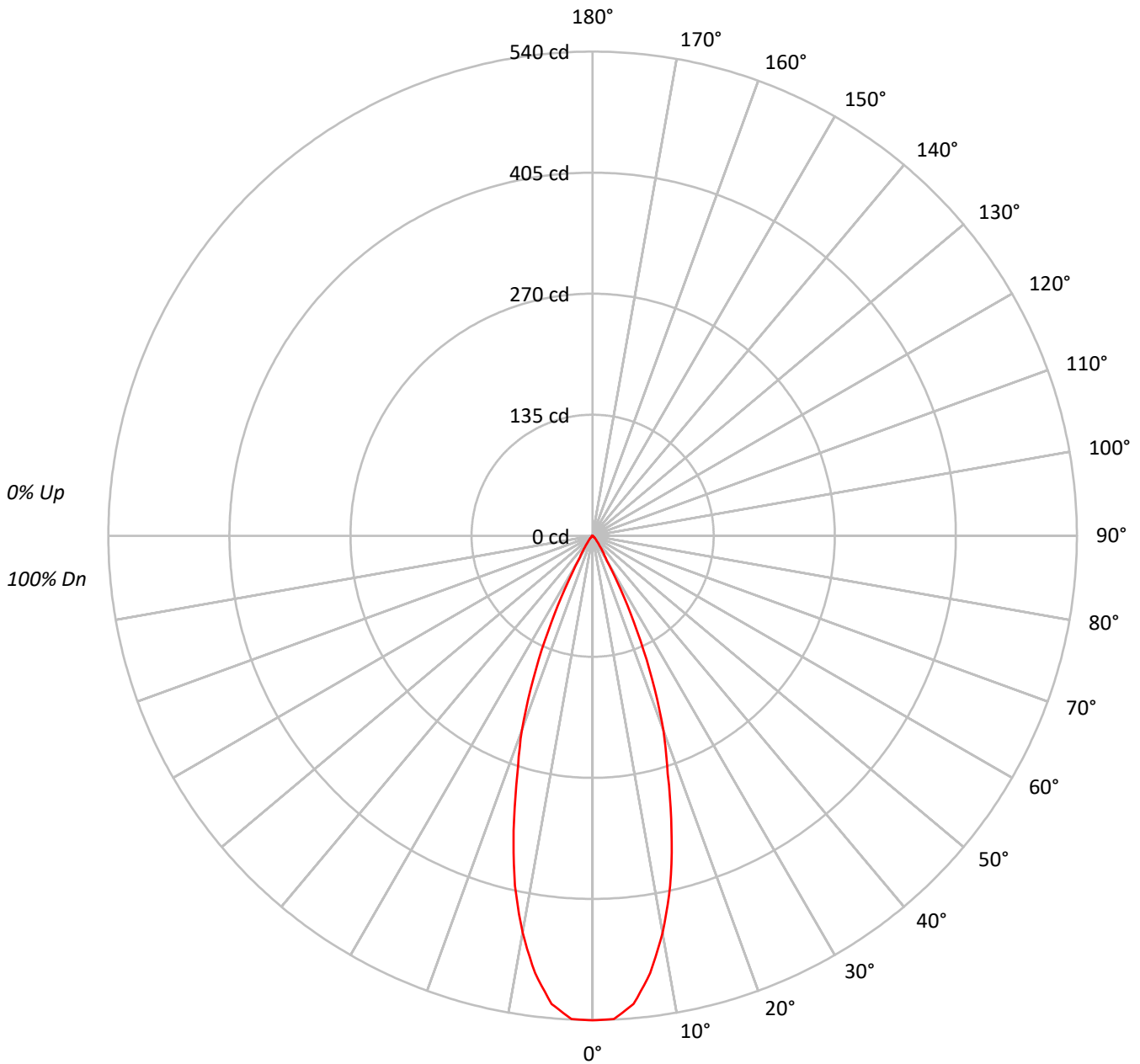
Lumens per Lamp: N/A
Luminaire Lumens: 206.4 lumens
Efficiency: N/A
Efficacy: 59.0 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.59
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 3.5
Input Voltage (V):
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

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Luminous Intensity Polar Plot





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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 | 100 | 100 |
| 1 | 115 | 112 | 110 | 108 | 112 | 110 | 108 | 107 | 106 | 105 | 103 | 103 | 101 | 100 | 99 | 98 | 98 | 96 | 96 | 96 | 96 |
| 2 | 110 | 106 | 103 | 100 | 108 | 105 | 102 | 99 | 102 | 99 | 97 | 99 | 97 | 95 | 96 | 95 | 93 | 92 | 92 | 92 | 92 |
| 3 | 106 | 101 | 97 | 94 | 105 | 100 | 96 | 93 | 97 | 94 | 92 | 95 | 93 | 91 | 93 | 91 | 89 | 88 | 88 | 88 | 88 |
| 4 | 103 | 97 | 92 | 89 | 101 | 96 | 92 | 88 | 94 | 90 | 87 | 92 | 89 | 86 | 90 | 88 | 86 | 84 | 84 | 84 | 84 |
| 5 | 99 | 92 | 88 | 84 | 97 | 92 | 87 | 84 | 90 | 86 | 83 | 88 | 85 | 83 | 87 | 84 | 82 | 81 | 81 | 81 | 81 |
| 6 | 95 | 89 | 84 | 81 | 94 | 88 | 83 | 80 | 86 | 83 | 80 | 85 | 82 | 79 | 84 | 81 | 79 | 78 | 78 | 78 | 78 |
| 7 | 92 | 85 | 80 | 77 | 91 | 84 | 80 | 77 | 83 | 79 | 76 | 82 | 79 | 76 | 81 | 78 | 76 | 75 | 75 | 75 | 75 |
| 8 | 89 | 82 | 77 | 74 | 88 | 81 | 77 | 74 | 80 | 76 | 73 | 79 | 76 | 73 | 78 | 75 | 73 | 72 | 72 | 72 | 72 |
| 9 | 86 | 79 | 74 | 71 | 85 | 78 | 74 | 71 | 77 | 73 | 71 | 77 | 73 | 70 | 76 | 73 | 70 | 69 | 69 | 69 | 69 |
| 10 | 83 | 76 | 71 | 68 | 83 | 76 | 71 | 68 | 75 | 71 | 68 | 74 | 71 | 68 | 73 | 70 | 68 | 67 | 67 | 67 | 67 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 66390 |
| 5° | 64633 |
| 10° | 56087 |
| 15° | 43269 |
| 20° | 30148 |
| 25° | 15887 |
| 30° | 4440 |
| 35° | 1965 |
| 40° | 994 |
| 45° | 504 |
| 50° | 210 |
| 55° | 21 |
| 60° | 0 |
| 65° | 0 |
| 70° | 0 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 47.6 | 23.0 |
| 10°-20° | 93.0 | 45.1 |
| 20°-30° | 53.8 | 26.0 |
| 30°-40° | 9.4 | 4.6 |
| 40°-50° | 2.4 | 1.2 |
| 50°-60° | 0.2 | 0.1 |
| 60°-70° | 0.0 | 0.0 |
| 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° | 194.3 | 94.2 |
| 0°-40° | 203.7 | 98.7 |
| 0°-60° | 206.4 | 100.0 |
| 0°-90° | 206.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 206.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 540 | |
| 5° | 524 | 48 |
| 15° | 340 | 93 |
| 25° | 117 | 54 |
| 35° | 13 | 9 |
| 45° | 3 | 2 |
| 55° | 0 | 0 |
| 65° | 0 | 0 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|-------|
| 0° | 540.4 |
| 2.5° | 539.5 |
| 5° | 524.1 |
| 7.5° | 491.9 |
| 10° | 449.6 |
| 12.5° | 399.9 |
| 15° | 340.2 |
| 17.5° | 278.7 |
| 20° | 230.6 |
| 22.5° | 173.2 |
| 25° | 117.2 |
| 27.5° | 67.1 |
| 30° | 31.3 |
| 32.5° | 21.4 |
| 35° | 13.1 |
| 37.5° | 8.7 |
| 40° | 6.2 |
| 42.5° | 4.2 |
| 45° | 2.9 |
| 47.5° | 1.9 |
| 50° | 1.1 |
| 52.5° | 0.5 |
| 55° | 0.1 |
| 57.5° | 0.0 |
| 60° | 0.0 |
| 62.5° | 0.0 |
| 65° | 0.0 |
| 67.5° | 0.0 |
| 70° | 0.0 |
| 72.5° | 0.0 |
| 75° | 0.0 |
| 77.5° | 0.0 |
| 80° | 0.0 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°







(END OF REPORT)