

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: P843555

Luminaire Tested: **LD4C25DE010B2750 EU4C25B50 4LBMLI**

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-08
Report Number: P843555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208178)
Test Lab: INNOVATION CENTER
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C25DE010B2750 EU4C25B50 4LBMLI
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

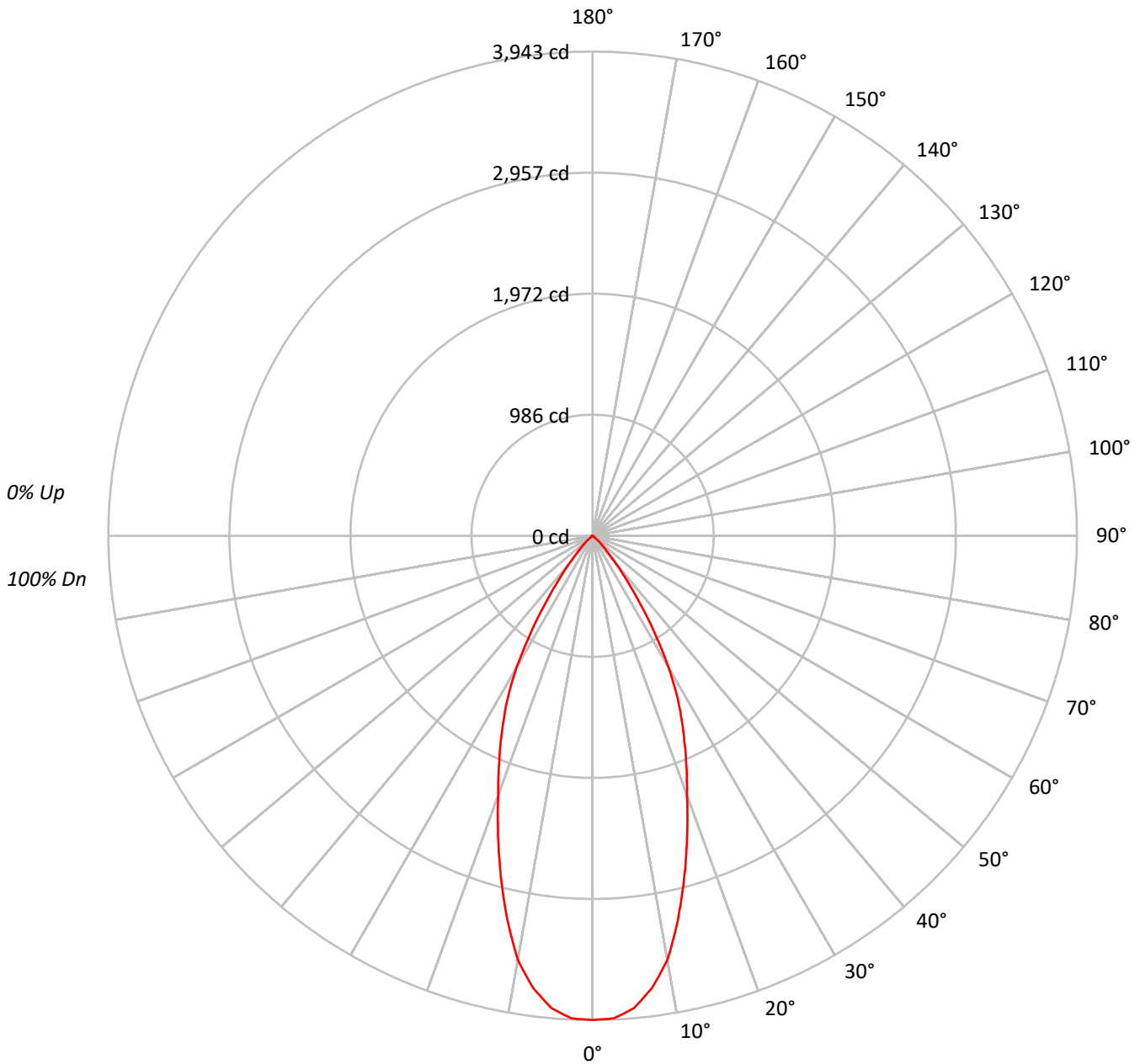
Lumens per Lamp: N/A
Luminaire Lumens: 2501.4 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 0.7 / 0.7 / 0.76
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 29.8
Input Voltage (V):
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 | | | | |
| 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 | | | |
| 1 | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 94 | | | |
| 2 | 109 | 104 | 100 | 97 | 107 | 102 | 99 | 96 | 99 | 96 | 94 | 96 | 94 | 92 | 94 | 92 | 90 | 88 | | | |
| 3 | 104 | 98 | 93 | 89 | 102 | 96 | 92 | 89 | 94 | 90 | 87 | 91 | 88 | 86 | 89 | 87 | 85 | 83 | | | |
| 4 | 99 | 92 | 87 | 83 | 97 | 91 | 86 | 82 | 89 | 85 | 81 | 87 | 83 | 80 | 85 | 82 | 79 | 78 | | | |
| 5 | 94 | 87 | 81 | 77 | 93 | 86 | 81 | 77 | 84 | 79 | 76 | 82 | 78 | 75 | 81 | 77 | 75 | 73 | | | |
| 6 | 90 | 82 | 76 | 72 | 89 | 81 | 76 | 72 | 80 | 75 | 71 | 78 | 74 | 71 | 77 | 73 | 71 | 69 | | | |
| 7 | 86 | 77 | 72 | 68 | 85 | 77 | 71 | 68 | 75 | 71 | 67 | 74 | 70 | 67 | 73 | 69 | 67 | 65 | | | |
| 8 | 82 | 73 | 68 | 64 | 81 | 73 | 67 | 64 | 72 | 67 | 64 | 71 | 66 | 63 | 70 | 66 | 63 | 62 | | | |
| 9 | 79 | 70 | 64 | 60 | 78 | 69 | 64 | 60 | 68 | 63 | 60 | 67 | 63 | 60 | 67 | 63 | 60 | 58 | | | |
| 10 | 75 | 66 | 61 | 57 | 74 | 66 | 61 | 57 | 65 | 60 | 57 | 64 | 60 | 57 | 64 | 60 | 57 | 56 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 484436 |
| 5° | 476198 |
| 10° | 437544 |
| 15° | 366427 |
| 20° | 293572 |
| 25° | 235877 |
| 30° | 175579 |
| 35° | 100304 |
| 40° | 47086 |
| 45° | 19998 |
| 50° | 6364 |
| 55° | 3234 |
| 60° | 2236 |
| 65° | 1744 |
| 70° | 1114 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 357.0 | 14.3 |
| 10°-20° | 798.2 | 31.9 |
| 20°-30° | 793.6 | 31.7 |
| 30°-40° | 432.2 | 17.3 |
| 40°-50° | 99.9 | 4.0 |
| 50°-60° | 14.1 | 0.6 |
| 60°-70° | 5.2 | 0.2 |
| 70°-80° | 1.2 | 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° | 1948.8 | 77.9 |
| 0°-40° | 2380.9 | 95.2 |
| 0°-60° | 2494.9 | 99.7 |
| 0°-90° | 2501.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2501.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 3943 | |
| 5° | 3861 | 357 |
| 15° | 2881 | 798 |
| 25° | 1740 | 794 |
| 35° | 669 | 432 |
| 45° | 115 | 100 |
| 55° | 15 | 14 |
| 65° | 6 | 5 |
| 75° | 0 | 1 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 3943.2 |
| 2.5° | 3934.1 |
| 5° | 3861.4 |
| 7.5° | 3713.1 |
| 10° | 3507.4 |
| 12.5° | 3204.8 |
| 15° | 2881.0 |
| 17.5° | 2560.2 |
| 20° | 2245.5 |
| 22.5° | 1988.2 |
| 25° | 1740.1 |
| 27.5° | 1504.1 |
| 30° | 1237.7 |
| 32.5° | 941.2 |
| 35° | 668.8 |
| 37.5° | 450.9 |
| 40° | 293.6 |
| 42.5° | 184.6 |
| 45° | 115.1 |
| 47.5° | 66.6 |
| 50° | 33.3 |
| 52.5° | 18.2 |
| 55° | 15.1 |
| 57.5° | 9.1 |
| 60° | 9.1 |
| 62.5° | 6.0 |
| 65° | 6.0 |
| 67.5° | 3.1 |
| 70° | 3.1 |
| 72.5° | 3.1 |
| 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)