

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: P858979

Luminaire Tested: **LX4C50D010 EX4C509030 4LBMH**

Issue Date: 2/8/2022



Test Information

Test Method: LM-79-08
Report Number: P858979
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P206636)
Test Lab: INNOVATION CENTER
Issue Date: 2/8/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C50D010 EX4C509030 4LBMH
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBM TRIM WITH H FINISH
Light Source: -
Ballast/Driver:

Summary

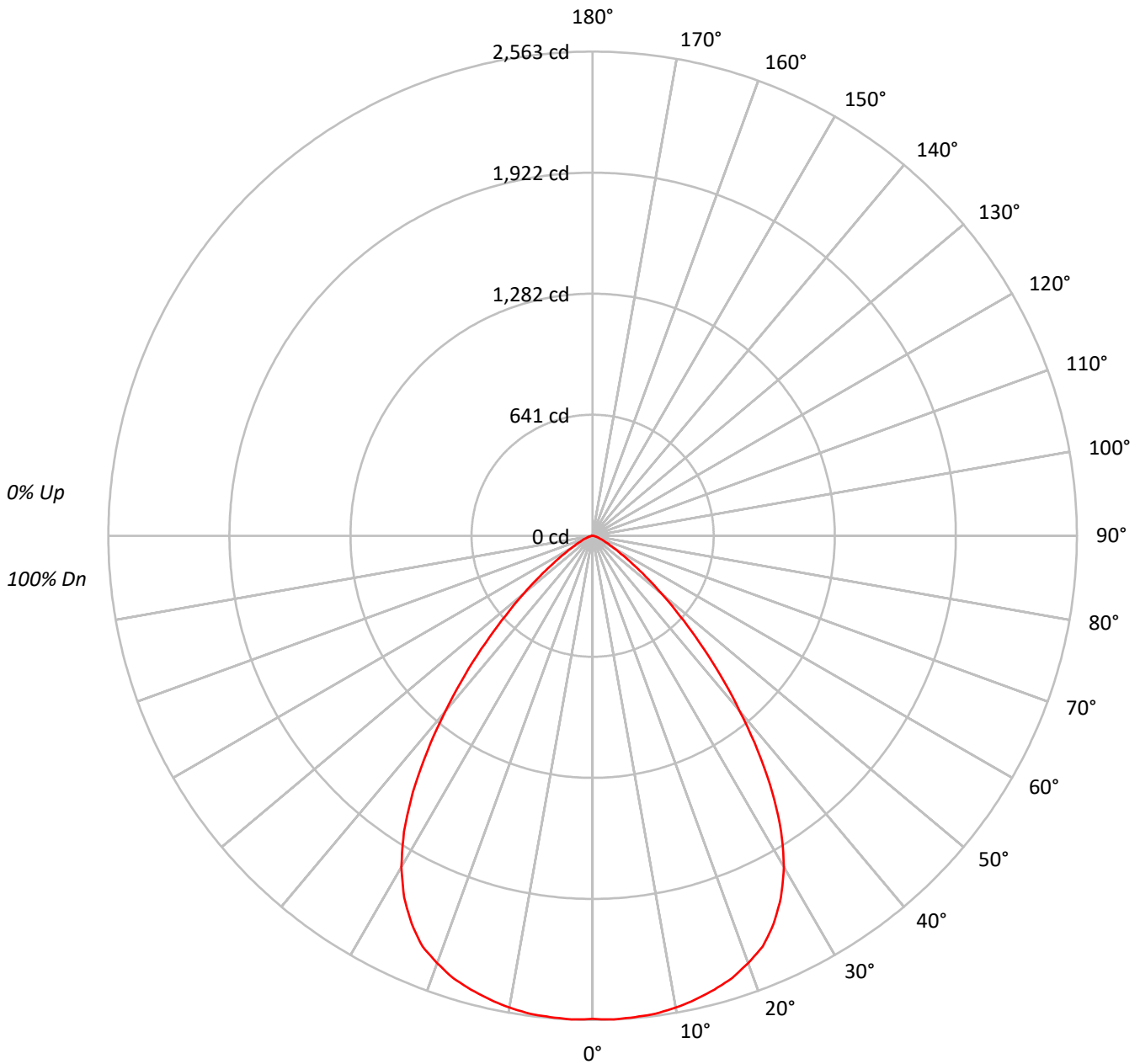
Lumens per Lamp: N/A
Luminaire Lumens: 3968.0 lumens
Efficiency: N/A
Efficacy: 67.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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 | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99 | 99 | 97 | 96 | 96 | 94 | 93 | 91 | | | |
| 2 | 105 | 100 | 95 | 91 | 103 | 98 | 93 | 90 | 95 | 91 | 88 | 91 | 88 | 86 | 89 | 86 | 84 | 82 | | | |
| 3 | 99 | 91 | 85 | 80 | 97 | 90 | 84 | 80 | 87 | 82 | 78 | 84 | 80 | 77 | 82 | 79 | 76 | 74 | | | |
| 4 | 92 | 83 | 77 | 72 | 90 | 82 | 76 | 71 | 80 | 75 | 70 | 78 | 73 | 70 | 76 | 72 | 69 | 67 | | | |
| 5 | 87 | 77 | 70 | 65 | 85 | 76 | 69 | 64 | 74 | 68 | 64 | 72 | 67 | 63 | 70 | 66 | 62 | 61 | | | |
| 6 | 81 | 71 | 64 | 58 | 80 | 70 | 63 | 58 | 68 | 62 | 58 | 67 | 61 | 57 | 65 | 61 | 57 | 55 | | | |
| 7 | 76 | 65 | 58 | 53 | 75 | 65 | 58 | 53 | 63 | 57 | 53 | 62 | 56 | 52 | 61 | 56 | 52 | 50 | | | |
| 8 | 72 | 60 | 53 | 49 | 70 | 60 | 53 | 49 | 59 | 53 | 48 | 58 | 52 | 48 | 57 | 52 | 48 | 46 | | | |
| 9 | 68 | 56 | 49 | 45 | 66 | 56 | 49 | 45 | 55 | 49 | 44 | 54 | 48 | 44 | 53 | 48 | 44 | 43 | | | |
| 10 | 64 | 52 | 46 | 41 | 63 | 52 | 46 | 41 | 51 | 45 | 41 | 50 | 45 | 41 | 49 | 44 | 41 | 39 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 314210 |
| 5° | 315410 |
| 10° | 316375 |
| 15° | 316378 |
| 20° | 314647 |
| 25° | 307273 |
| 30° | 287193 |
| 35° | 248706 |
| 40° | 194277 |
| 45° | 139392 |
| 50° | 90556 |
| 55° | 54211 |
| 60° | 31721 |
| 65° | 20378 |
| 70° | 13542 |
| 75° | 10253 |
| 80° | 7641 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 243.6 | 6.1 |
| 10°-20° | 701.8 | 17.7 |
| 20°-30° | 1035.6 | 26.1 |
| 30°-40° | 1022.0 | 25.8 |
| 40°-50° | 625.4 | 15.8 |
| 50°-60° | 239.8 | 6.0 |
| 60°-70° | 75.0 | 1.9 |
| 70°-80° | 22.0 | 0.6 |
| 80°-90° | 2.9 | 0.1 |
| 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° | 1981.0 | 49.9 |
| 0°-40° | 3003.0 | 75.7 |
| 0°-60° | 3868.1 | 97.5 |
| 0°-90° | 3968.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3968.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 2558 | |
| 5° | 2558 | 244 |
| 15° | 2488 | 702 |
| 25° | 2267 | 1036 |
| 35° | 1658 | 1022 |
| 45° | 802 | 625 |
| 55° | 253 | 240 |
| 65° | 70 | 75 |
| 75° | 22 | 22 |
| 85° | 0 | 3 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 2557.6 |
| 2.5° | 2563.0 |
| 5° | 2557.6 |
| 7.5° | 2552.2 |
| 10° | 2536.1 |
| 12.5° | 2514.5 |
| 15° | 2487.5 |
| 17.5° | 2455.2 |
| 20° | 2406.7 |
| 22.5° | 2353.1 |
| 25° | 2266.8 |
| 27.5° | 2159.0 |
| 30° | 2024.5 |
| 32.5° | 1857.7 |
| 35° | 1658.3 |
| 37.5° | 1437.6 |
| 40° | 1211.4 |
| 42.5° | 1001.5 |
| 45° | 802.3 |
| 47.5° | 624.5 |
| 50° | 473.8 |
| 52.5° | 350.1 |
| 55° | 253.1 |
| 57.5° | 177.6 |
| 60° | 129.1 |
| 62.5° | 97.0 |
| 65° | 70.1 |
| 67.5° | 53.9 |
| 70° | 37.7 |
| 72.5° | 26.9 |
| 75° | 21.6 |
| 77.5° | 10.8 |
| 80° | 10.8 |
| 82.5° | 5.4 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°







(END OF REPORT)