

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: P839545

Luminaire Tested: **LD6C90D010 EU6909050 6LCSQWLI**

Issue Date: 6/29/2023



Test Information

Test Method: LM-79-08
Report Number: P839545
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-17)
Test Lab: INNOVATION CENTER
Issue Date: 6/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C90D010 EU6909050 6LCSQWLI
Description: 6 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

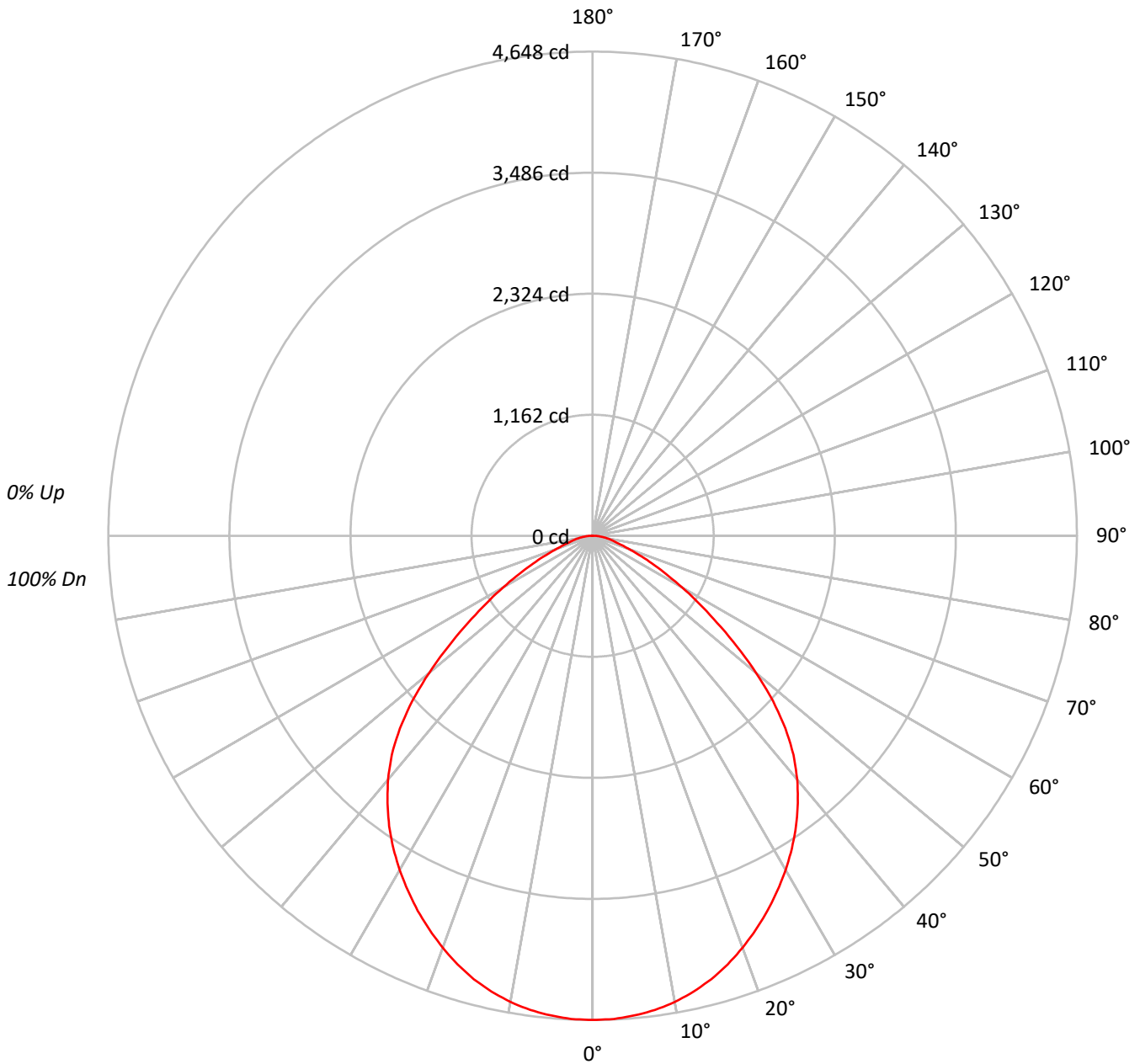
Lumens per Lamp: N/A
Luminaire Lumens: 9910.0 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.29
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 97.1
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 | 111 | 107 | 103 | 100 | 108 | 105 | 101 | 98 | 100 | 98 | 95 | 97 | 94 | 92 | 93 | 91 | 90 | 88 | 88 | 88 | 88 |
| 2 | 102 | 95 | 89 | 85 | 100 | 93 | 88 | 84 | 90 | 86 | 82 | 87 | 83 | 80 | 84 | 81 | 78 | 76 | 76 | 76 | 76 |
| 3 | 94 | 85 | 78 | 72 | 92 | 84 | 77 | 72 | 81 | 75 | 71 | 78 | 73 | 69 | 76 | 72 | 68 | 66 | 66 | 66 | 66 |
| 4 | 87 | 77 | 69 | 63 | 85 | 75 | 68 | 62 | 73 | 67 | 62 | 71 | 65 | 61 | 69 | 64 | 60 | 58 | 58 | 58 | 58 |
| 5 | 81 | 69 | 61 | 55 | 79 | 68 | 60 | 55 | 66 | 59 | 54 | 64 | 58 | 54 | 62 | 57 | 53 | 51 | 51 | 51 | 51 |
| 6 | 75 | 63 | 55 | 49 | 73 | 62 | 54 | 49 | 60 | 53 | 48 | 59 | 52 | 48 | 57 | 52 | 47 | 46 | 46 | 46 | 46 |
| 7 | 70 | 57 | 49 | 44 | 68 | 57 | 49 | 43 | 55 | 48 | 43 | 54 | 47 | 43 | 52 | 47 | 43 | 41 | 41 | 41 | 41 |
| 8 | 65 | 53 | 45 | 39 | 64 | 52 | 44 | 39 | 51 | 44 | 39 | 49 | 43 | 39 | 48 | 43 | 38 | 37 | 37 | 37 | 37 |
| 9 | 61 | 48 | 41 | 36 | 60 | 48 | 41 | 35 | 47 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 33 | 33 | 33 | 33 |
| 10 | 57 | 45 | 37 | 32 | 56 | 44 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 32 | 42 | 36 | 32 | 30 | 30 | 30 | 30 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 200110 |
| 5° | 199785 |
| 10° | 198694 |
| 15° | 196400 |
| 20° | 192829 |
| 25° | 188654 |
| 30° | 184164 |
| 35° | 178908 |
| 40° | 171707 |
| 45° | 159282 |
| 50° | 137221 |
| 55° | 109460 |
| 60° | 85216 |
| 65° | 63786 |
| 70° | 46288 |
| 75° | 36698 |
| 80° | 34390 |
| 85° | 34235 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 438.8 | 4.4 |
| 10°-20° | 1240.8 | 12.5 |
| 20°-30° | 1828.6 | 18.5 |
| 30°-40° | 2124.2 | 21.4 |
| 40°-50° | 1996.7 | 20.1 |
| 50°-60° | 1321.7 | 13.3 |
| 60°-70° | 636.9 | 6.4 |
| 70°-80° | 245.6 | 2.5 |
| 80°-90° | 76.6 | 0.8 |
| 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° | 3508.3 | 35.4 |
| 0°-40° | 5632.5 | 56.8 |
| 0°-60° | 8950.9 | 90.3 |
| 0°-90° | 9910.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 9910.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 4648 | |
| 5° | 4622 | 439 |
| 15° | 4406 | 1241 |
| 25° | 3971 | 1829 |
| 35° | 3404 | 2124 |
| 45° | 2616 | 1997 |
| 55° | 1458 | 1322 |
| 65° | 626 | 637 |
| 75° | 221 | 246 |
| 85° | 69 | 77 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 4647.7 |
| 2.5° | 4643.5 |
| 5° | 4622.5 |
| 7.5° | 4591.0 |
| 10° | 4544.7 |
| 12.5° | 4481.7 |
| 15° | 4406.1 |
| 17.5° | 4313.6 |
| 20° | 4208.5 |
| 22.5° | 4093.0 |
| 25° | 3971.1 |
| 27.5° | 3840.9 |
| 30° | 3704.3 |
| 32.5° | 3559.3 |
| 35° | 3403.8 |
| 37.5° | 3233.6 |
| 40° | 3055.0 |
| 42.5° | 2853.3 |
| 45° | 2615.9 |
| 47.5° | 2347.0 |
| 50° | 2048.6 |
| 52.5° | 1746.0 |
| 55° | 1458.2 |
| 57.5° | 1210.2 |
| 60° | 989.6 |
| 62.5° | 792.1 |
| 65° | 626.1 |
| 67.5° | 485.4 |
| 70° | 367.7 |
| 72.5° | 279.4 |
| 75° | 220.6 |
| 77.5° | 178.6 |
| 80° | 138.7 |
| 82.5° | 103.0 |
| 85° | 69.3 |
| 87.5° | 39.9 |
| 90° | 0.0 |



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°







(END OF REPORT)