

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: P563821

Luminaire Tested: **LD4C30D010 EX4C309030 4LCSQWLI**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P563821
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-13)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C30D010 EX4C309030 4LCSQWLI
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

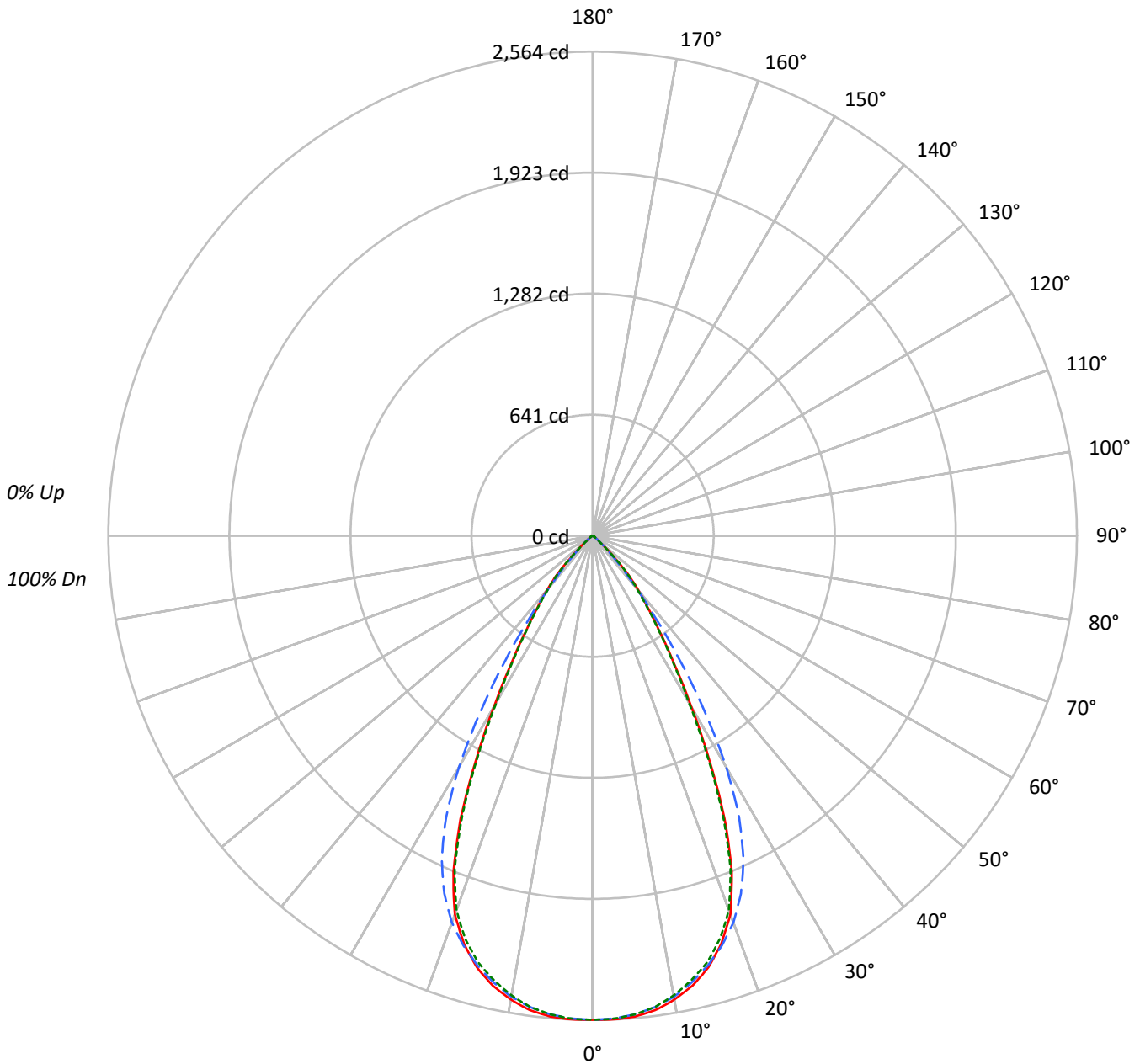
Lumens per Lamp: N/A
Luminaire Lumens: 2294.8 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.9
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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





TEST NUMBER: P563821

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 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 | 108 | 106 | 111 | 109 | 106 | 104 | 105 | 103 | 101 | 101 | 100 | 98 | 97 | 96 | 95 | 94 | | | | | | | | | | | | | | | | | | | |
| 2 | 108 | 103 | 99 | 96 | 106 | 102 | 98 | 95 | 98 | 95 | 93 | 95 | 93 | 91 | 93 | 91 | 89 | 87 | | | | | | | | | | | | | | | | | | | |
| 3 | 103 | 96 | 91 | 88 | 101 | 95 | 90 | 87 | 92 | 89 | 85 | 90 | 87 | 84 | 88 | 85 | 83 | 81 | | | | | | | | | | | | | | | | | | | |
| 4 | 98 | 90 | 85 | 80 | 96 | 89 | 84 | 80 | 87 | 82 | 79 | 85 | 81 | 78 | 83 | 80 | 77 | 76 | | | | | | | | | | | | | | | | | | | |
| 5 | 93 | 84 | 79 | 74 | 91 | 84 | 78 | 74 | 82 | 77 | 73 | 80 | 76 | 73 | 79 | 75 | 72 | 71 | | | | | | | | | | | | | | | | | | | |
| 6 | 88 | 79 | 73 | 69 | 87 | 79 | 73 | 69 | 77 | 72 | 68 | 76 | 71 | 68 | 74 | 71 | 68 | 66 | | | | | | | | | | | | | | | | | | | |
| 7 | 84 | 75 | 69 | 65 | 82 | 74 | 68 | 64 | 73 | 68 | 64 | 71 | 67 | 64 | 70 | 66 | 63 | 62 | | | | | | | | | | | | | | | | | | | |
| 8 | 80 | 70 | 64 | 60 | 79 | 70 | 64 | 60 | 69 | 64 | 60 | 68 | 63 | 60 | 67 | 63 | 59 | 58 | | | | | | | | | | | | | | | | | | | |
| 9 | 76 | 66 | 61 | 57 | 75 | 66 | 60 | 57 | 65 | 60 | 56 | 64 | 60 | 56 | 63 | 59 | 56 | 55 | | | | | | | | | | | | | | | | | | | |
| 10 | 72 | 63 | 57 | 53 | 71 | 62 | 57 | 53 | 62 | 57 | 53 | 61 | 56 | 53 | 60 | 56 | 53 | 52 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 247330 | 247330 | 247330 |
| 5° | 247587 | 246454 | 246454 |
| 10° | 244346 | 242896 | 242151 |
| 15° | 236406 | 235287 | 233709 |
| 20° | 218947 | 223722 | 216534 |
| 25° | 176048 | 201248 | 173727 |
| 30° | 116184 | 157787 | 113432 |
| 35° | 72618 | 94751 | 71299 |
| 40° | 47398 | 43909 | 45546 |
| 45° | 22815 | 17521 | 21533 |
| 50° | 5734 | 6980 | 5389 |
| 55° | 3163 | 2877 | 3062 |
| 60° | 2161 | 1833 | 2046 |
| 65° | 1484 | 1347 | 1484 |
| 70° | 1185 | 1016 | 1185 |
| 75° | 857 | 857 | 857 |
| 80° | 667 | 945 | 945 |
| 85° | 664 | 1329 | 1329 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 241.1 | 10.5 |
| 10°-20° | 658.3 | 28.7 |
| 20°-30° | 784.5 | 34.2 |
| 30°-40° | 444.2 | 19.4 |
| 40°-50° | 137.3 | 6.0 |
| 50°-60° | 19.1 | 0.8 |
| 60°-70° | 6.5 | 0.3 |
| 70°-80° | 2.6 | 0.1 |
| 80°-90° | 1.1 | 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° | 1683.9 | 73.4 |
| 0°-40° | 2128.2 | 92.7 |
| 0°-60° | 2284.6 | 99.6 |
| 0°-90° | 2294.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2294.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2563 | 2563 | 2563 | 2563 | 2563 | |
| 5° | 2556 | 2550 | 2544 | 2543 | 2544 | 242 |
| 15° | 2367 | 2362 | 2355 | 2346 | 2340 | 660 |
| 25° | 1654 | 1750 | 1890 | 1753 | 1632 | 737 |
| 35° | 616 | 672 | 804 | 674 | 605 | 401 |
| 45° | 167 | 195 | 128 | 190 | 158 | 138 |
| 55° | 19 | 19 | 17 | 18 | 18 | 19 |
| 65° | 6 | 6 | 6 | 6 | 6 | 7 |
| 75° | 2 | 2 | 2 | 2 | 2 | 3 |
| 85° | 1 | 1 | 1 | 1 | 1 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P563821

CATALOG NUMBER: LD4C30D010 EX4C309030 4LCSQWLI

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2563.3 | 2563.3 | 2563.3 | 2563.3 | 2563.3 |
| 2.5° | 2564.0 | 2559.8 | 2558.7 | 2557.4 | 2559.8 |
| 5° | 2556.2 | 2550.4 | 2544.5 | 2542.7 | 2544.5 |
| 7.5° | 2534.5 | 2528.6 | 2518.6 | 2516.2 | 2518.0 |
| 10° | 2493.9 | 2488.6 | 2479.1 | 2473.8 | 2471.5 |
| 12.5° | 2440.3 | 2431.4 | 2422.6 | 2416.7 | 2410.9 |
| 15° | 2366.6 | 2362.5 | 2355.4 | 2346.1 | 2339.6 |
| 17.5° | 2264.8 | 2270.7 | 2274.8 | 2255.9 | 2238.9 |
| 20° | 2132.3 | 2154.1 | 2178.8 | 2140.5 | 2108.8 |
| 22.5° | 1925.6 | 1988.0 | 2051.0 | 1978.6 | 1908.0 |
| 25° | 1653.6 | 1750.1 | 1890.3 | 1753.0 | 1631.8 |
| 27.5° | 1336.1 | 1458.7 | 1679.5 | 1459.2 | 1318.5 |
| 30° | 1042.8 | 1168.9 | 1416.2 | 1152.4 | 1018.1 |
| 32.5° | 800.8 | 895.0 | 1106.5 | 880.9 | 783.8 |
| 35° | 616.5 | 672.5 | 804.4 | 674.3 | 605.3 |
| 37.5° | 479.3 | 507.6 | 541.2 | 497.6 | 465.2 |
| 40° | 376.3 | 377.5 | 348.6 | 371.6 | 361.6 |
| 42.5° | 279.1 | 277.9 | 214.3 | 270.9 | 272.6 |
| 45° | 167.2 | 194.9 | 128.4 | 189.6 | 157.8 |
| 47.5° | 79.5 | 110.2 | 77.1 | 104.3 | 73.6 |
| 50° | 38.2 | 53.0 | 46.5 | 49.4 | 35.9 |
| 52.5° | 25.9 | 27.1 | 26.5 | 25.9 | 24.7 |
| 55° | 18.8 | 18.8 | 17.1 | 18.2 | 18.2 |
| 57.5° | 14.1 | 14.1 | 12.4 | 13.5 | 13.5 |
| 60° | 11.2 | 10.6 | 9.5 | 10.6 | 10.6 |
| 62.5° | 8.2 | 8.2 | 7.0 | 8.2 | 8.2 |
| 65° | 6.5 | 6.5 | 5.9 | 6.5 | 6.5 |
| 67.5° | 5.3 | 5.3 | 4.2 | 5.3 | 4.7 |
| 70° | 4.2 | 4.2 | 3.6 | 4.2 | 4.2 |
| 72.5° | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| 75° | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| 77.5° | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| 80° | 1.2 | 1.2 | 1.7 | 1.7 | 1.7 |
| 82.5° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| 85° | 0.6 | 1.2 | 1.2 | 1.2 | 1.2 |
| 87.5° | 0.6 | 0.6 | 1.2 | 1.2 | 1.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)