

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: P#

Luminaire Tested: **LD4C65D010 EX4C659040 4LCSQWLI**

Issue Date: 2/18/2022

Test Information

Test Method: LM-79-08
Report Number: P#
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: LD4C65D010 EX4C659040 4LCSQWLI
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

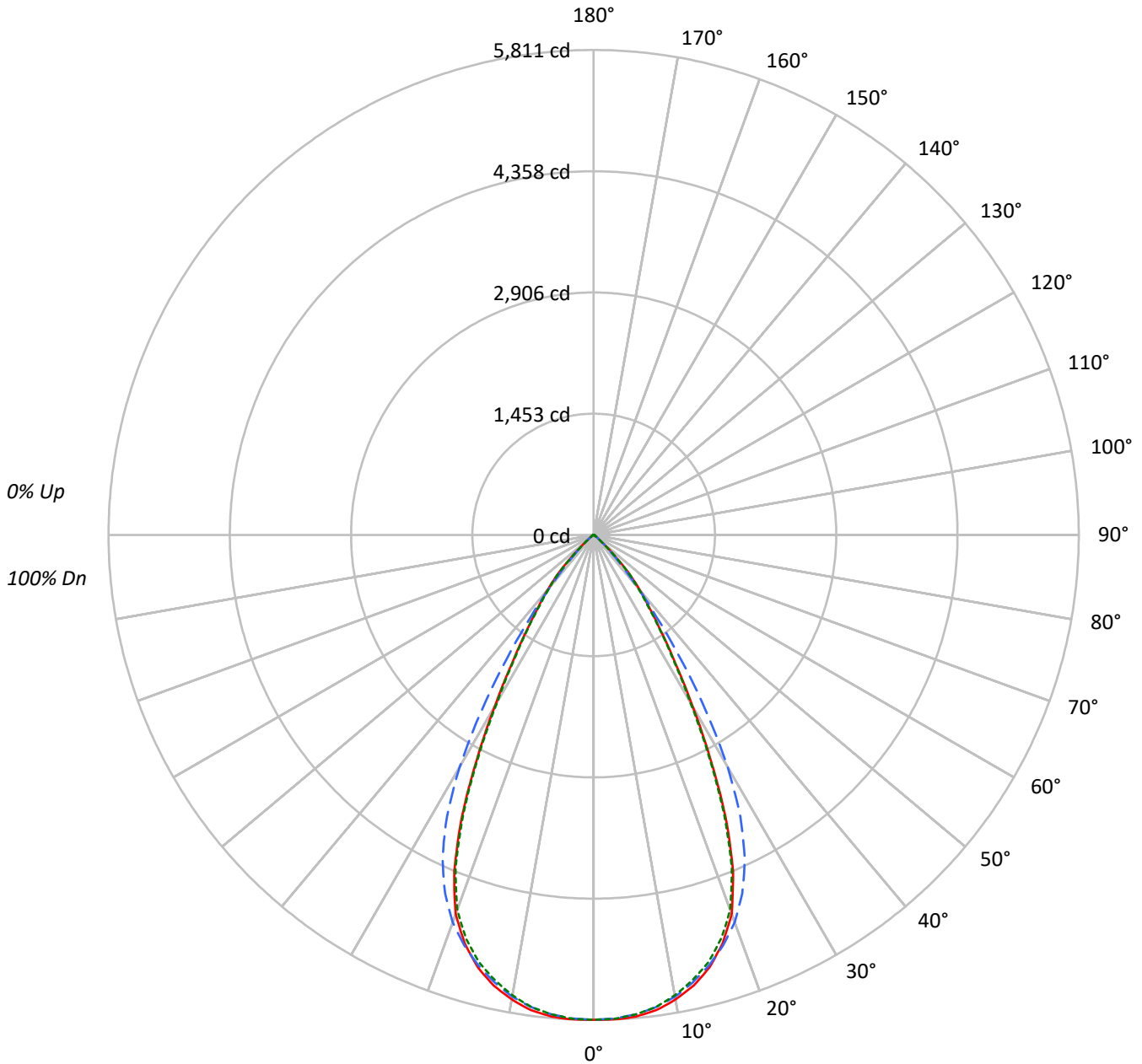
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5201.0 lumens
Efficiency: N/A
Efficacy: 71.8 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): 72.4
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: P#

CATALOG NUMBER: LD4C65D010 EX4C659040 4LCSQWLI

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 | 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° | 560562 | 560562 | 560562 |
| 5° | 561153 | 558567 | 558567 |
| 10° | 553778 | 550515 | 548811 |
| 15° | 535804 | 533277 | 529681 |
| 20° | 496228 | 507051 | 490745 |
| 25° | 398983 | 456101 | 393724 |
| 30° | 263342 | 357622 | 257103 |
| 35° | 164590 | 214745 | 161610 |
| 40° | 107416 | 99519 | 103222 |
| 45° | 51717 | 39695 | 48810 |
| 50° | 13030 | 15822 | 12219 |
| 55° | 7183 | 6510 | 6964 |
| 60° | 4902 | 4130 | 4631 |
| 65° | 3356 | 3037 | 3356 |
| 70° | 2624 | 2257 | 2624 |
| 75° | 1976 | 1976 | 1976 |
| 80° | 1500 | 2223 | 2223 |
| 85° | 1439 | 2989 | 2989 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 546.4 | 10.5 |
| 10°-20° | 1492.0 | 28.7 |
| 20°-30° | 1778.1 | 34.2 |
| 30°-40° | 1006.9 | 19.4 |
| 40°-50° | 311.3 | 6.0 |
| 50°-60° | 43.2 | 0.8 |
| 60°-70° | 14.7 | 0.3 |
| 70°-80° | 5.9 | 0.1 |
| 80°-90° | 2.5 | 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° | 3816.5 | 73.4 |
| 0°-40° | 4823.4 | 92.7 |
| 0°-60° | 5177.9 | 99.6 |
| 0°-90° | 5201.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5201.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 5810 | 5810 | 5810 | 5810 | 5810 | |
| 5° | 5794 | 5780 | 5767 | 5763 | 5767 | 549 |
| 15° | 5364 | 5354 | 5338 | 5317 | 5302 | 1496 |
| 25° | 3748 | 3966 | 4284 | 3973 | 3698 | 1671 |
| 35° | 1397 | 1524 | 1823 | 1528 | 1372 | 909 |
| 45° | 379 | 442 | 291 | 430 | 358 | 313 |
| 55° | 43 | 43 | 39 | 41 | 41 | 42 |
| 65° | 15 | 15 | 13 | 15 | 15 | 15 |
| 75° | 5 | 5 | 5 | 5 | 5 | 6 |
| 85° | 1 | 3 | 3 | 3 | 3 | 2 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 5809.6 | 5809.6 | 5809.6 | 5809.6 | 5809.6 |
| 2.5° | 5810.9 | 5801.6 | 5798.9 | 5796.3 | 5801.6 |
| 5° | 5793.6 | 5780.3 | 5766.9 | 5762.9 | 5766.9 |
| 7.5° | 5744.2 | 5730.9 | 5708.2 | 5702.8 | 5706.8 |
| 10° | 5652.1 | 5640.1 | 5618.8 | 5606.8 | 5601.4 |
| 12.5° | 5530.7 | 5510.7 | 5490.6 | 5477.3 | 5463.9 |
| 15° | 5363.8 | 5354.5 | 5338.5 | 5317.1 | 5302.5 |
| 17.5° | 5133.0 | 5146.3 | 5155.6 | 5112.9 | 5074.2 |
| 20° | 4832.7 | 4882.0 | 4938.1 | 4851.4 | 4779.3 |
| 22.5° | 4364.2 | 4505.7 | 4648.5 | 4484.3 | 4324.2 |
| 25° | 3747.6 | 3966.5 | 4284.1 | 3973.2 | 3698.2 |
| 27.5° | 3028.3 | 3305.9 | 3806.3 | 3307.2 | 2988.2 |
| 30° | 2363.6 | 2649.2 | 3209.8 | 2611.9 | 2307.6 |
| 32.5° | 1815.1 | 2028.6 | 2507.8 | 1996.6 | 1776.4 |
| 35° | 1397.3 | 1524.1 | 1823.1 | 1528.1 | 1372.0 |
| 37.5° | 1086.4 | 1150.4 | 1226.5 | 1127.8 | 1054.4 |
| 40° | 852.8 | 855.5 | 790.1 | 842.1 | 819.5 |
| 42.5° | 632.6 | 629.9 | 485.8 | 613.9 | 617.9 |
| 45° | 379.0 | 441.8 | 290.9 | 429.7 | 357.7 |
| 47.5° | 180.2 | 249.6 | 174.8 | 236.2 | 166.8 |
| 50° | 86.8 | 120.1 | 105.4 | 112.1 | 81.4 |
| 52.5° | 58.7 | 61.4 | 60.1 | 58.7 | 56.1 |
| 55° | 42.7 | 42.7 | 38.7 | 41.4 | 41.4 |
| 57.5° | 32.0 | 32.0 | 28.0 | 30.7 | 30.7 |
| 60° | 25.4 | 24.0 | 21.4 | 24.0 | 24.0 |
| 62.5° | 18.7 | 18.7 | 16.0 | 18.7 | 18.7 |
| 65° | 14.7 | 14.7 | 13.3 | 14.7 | 14.7 |
| 67.5° | 12.0 | 12.0 | 9.3 | 12.0 | 10.7 |
| 70° | 9.3 | 9.3 | 8.0 | 9.3 | 9.3 |
| 72.5° | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 |
| 75° | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 |
| 77.5° | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| 80° | 2.7 | 2.7 | 4.0 | 4.0 | 4.0 |
| 82.5° | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| 85° | 1.3 | 2.7 | 2.7 | 2.7 | 2.7 |
| 87.5° | 1.3 | 1.3 | 2.7 | 2.7 | 2.7 |
| 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)