

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 EX4C659030 4LCSQWH**

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 (G1-2105-247-14)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C65D010 EX4C659030 4LCSQWH
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

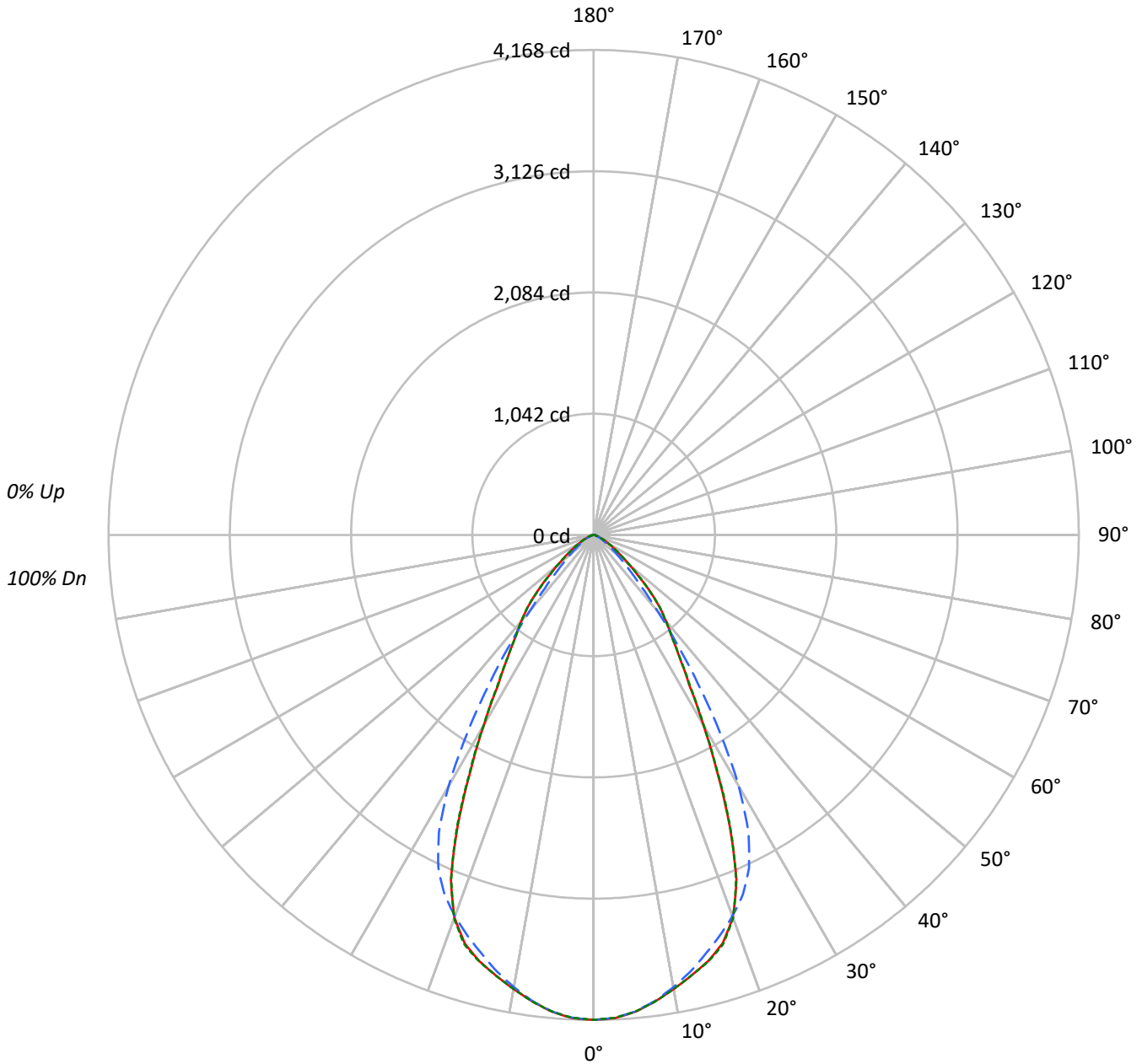
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4411.0 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.94
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

TEST NUMBER: P#
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Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD4C65D010 EX4C659030 4LCSQWH

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 | | | | 100 | | | | | | | | | | | | | | | |
| 1 | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 98 | 97 | 96 | 95 | 94 | 92 | | | | 92 | | | | | | | | | | | | | | | |
| 2 | 107 | 101 | 97 | 93 | 104 | 99 | 95 | 92 | 96 | 93 | 90 | 93 | 90 | 88 | 90 | 88 | 86 | 84 | | | | 84 | | | | | | | | | | | | | | | |
| 3 | 101 | 93 | 88 | 84 | 98 | 92 | 87 | 83 | 89 | 85 | 82 | 87 | 83 | 80 | 85 | 82 | 79 | 77 | | | | 77 | | | | | | | | | | | | | | | |
| 4 | 95 | 87 | 80 | 76 | 93 | 85 | 80 | 75 | 83 | 78 | 74 | 81 | 77 | 74 | 79 | 76 | 73 | 71 | | | | 71 | | | | | | | | | | | | | | | |
| 5 | 89 | 80 | 74 | 69 | 88 | 79 | 73 | 69 | 78 | 72 | 68 | 76 | 71 | 68 | 74 | 70 | 67 | 66 | | | | 66 | | | | | | | | | | | | | | | |
| 6 | 85 | 75 | 68 | 64 | 83 | 74 | 68 | 63 | 72 | 67 | 63 | 71 | 66 | 63 | 70 | 65 | 62 | 61 | | | | 61 | | | | | | | | | | | | | | | |
| 7 | 80 | 70 | 63 | 59 | 79 | 69 | 63 | 59 | 68 | 62 | 58 | 67 | 62 | 58 | 65 | 61 | 58 | 56 | | | | 56 | | | | | | | | | | | | | | | |
| 8 | 76 | 65 | 59 | 55 | 74 | 65 | 59 | 54 | 64 | 58 | 54 | 63 | 58 | 54 | 62 | 57 | 54 | 52 | | | | 52 | | | | | | | | | | | | | | | |
| 9 | 72 | 61 | 55 | 51 | 71 | 61 | 55 | 51 | 60 | 54 | 51 | 59 | 54 | 50 | 58 | 54 | 50 | 49 | | | | 49 | | | | | | | | | | | | | | | |
| 10 | 68 | 58 | 52 | 48 | 67 | 57 | 51 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 55 | 50 | 47 | 46 | | | | 46 | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 402127 | 402127 | 402127 |
| 5° | 398443 | 398191 | 398317 |
| 10° | 388235 | 386697 | 388235 |
| 15° | 378893 | 372070 | 379282 |
| 20° | 359241 | 357896 | 359919 |
| 25° | 294681 | 336234 | 296214 |
| 30° | 210130 | 277782 | 210420 |
| 35° | 151562 | 184072 | 152021 |
| 40° | 121511 | 106938 | 121511 |
| 45° | 92722 | 62415 | 91999 |
| 50° | 61155 | 39854 | 60960 |
| 55° | 41131 | 26747 | 40676 |
| 60° | 27654 | 18256 | 27905 |
| 65° | 18904 | 12900 | 18607 |
| 70° | 12611 | 9282 | 12611 |
| 75° | 8314 | 6860 | 8314 |
| 80° | 5834 | 5112 | 5834 |
| 85° | 4318 | 4318 | 4318 |



TEST NUMBER: P#

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 387.4 | 8.8 |
| 10°-20° | 1056.4 | 23.9 |
| 20°-30° | 1320.6 | 29.9 |
| 30°-40° | 888.4 | 20.1 |
| 40°-50° | 469.1 | 10.6 |
| 50°-60° | 190.7 | 4.3 |
| 60°-70° | 70.7 | 1.6 |
| 70°-80° | 22.8 | 0.5 |
| 80°-90° | 4.9 | 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° | 2764.4 | 62.7 |
| 0°-40° | 3652.8 | 82.8 |
| 0°-60° | 4312.6 | 97.8 |
| 0°-90° | 4411.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4411.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 4168 | 4168 | 4168 | 4168 | 4168 | |
| 5° | 4114 | 4110 | 4111 | 4111 | 4112 | 388 |
| 15° | 3793 | 3762 | 3725 | 3760 | 3797 | 1063 |
| 25° | 2768 | 2923 | 3158 | 2928 | 2782 | 1246 |
| 35° | 1287 | 1351 | 1563 | 1354 | 1291 | 828 |
| 45° | 680 | 645 | 457 | 643 | 674 | 521 |
| 55° | 244 | 205 | 159 | 205 | 242 | 227 |
| 65° | 83 | 67 | 56 | 67 | 82 | 85 |
| 75° | 22 | 20 | 18 | 20 | 22 | 26 |
| 85° | 4 | 4 | 4 | 4 | 4 | 5 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P#

CATALOG NUMBER: LD4C65D010 EX4C659030 4LCSQWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 4167.6 | 4167.6 | 4167.6 | 4167.6 | 4167.6 |
| 2.5° | 4157.1 | 4154.4 | 4153.1 | 4153.1 | 4154.4 |
| 5° | 4113.7 | 4109.7 | 4111.1 | 4111.1 | 4112.4 |
| 7.5° | 4044.0 | 4042.7 | 4038.8 | 4044.0 | 4044.0 |
| 10° | 3962.5 | 3956.0 | 3946.8 | 3957.3 | 3962.5 |
| 12.5° | 3878.4 | 3858.7 | 3842.9 | 3858.7 | 3878.4 |
| 15° | 3793.0 | 3761.5 | 3724.7 | 3760.1 | 3796.9 |
| 17.5° | 3681.3 | 3649.7 | 3609.0 | 3656.3 | 3691.8 |
| 20° | 3498.6 | 3501.2 | 3485.5 | 3498.6 | 3505.2 |
| 22.5° | 3205.5 | 3264.7 | 3347.5 | 3266.0 | 3196.3 |
| 25° | 2767.9 | 2922.9 | 3158.2 | 2928.2 | 2782.3 |
| 27.5° | 2298.7 | 2495.8 | 2880.9 | 2507.6 | 2313.1 |
| 30° | 1886.0 | 2060.8 | 2493.2 | 2072.6 | 1888.6 |
| 32.5° | 1527.2 | 1657.3 | 2026.6 | 1673.1 | 1544.3 |
| 35° | 1286.7 | 1351.1 | 1562.7 | 1353.7 | 1290.6 |
| 37.5° | 1102.7 | 1102.7 | 1160.5 | 1107.9 | 1097.4 |
| 40° | 964.7 | 922.6 | 849.0 | 921.3 | 964.7 |
| 42.5° | 835.9 | 772.8 | 616.4 | 770.2 | 838.5 |
| 45° | 679.5 | 645.3 | 457.4 | 642.7 | 674.2 |
| 47.5° | 521.8 | 498.1 | 344.3 | 495.5 | 525.7 |
| 50° | 407.4 | 370.6 | 265.5 | 368.0 | 406.1 |
| 52.5° | 312.8 | 273.4 | 205.0 | 273.4 | 310.2 |
| 55° | 244.5 | 205.0 | 159.0 | 205.0 | 241.8 |
| 57.5° | 187.9 | 156.4 | 120.9 | 153.8 | 186.6 |
| 60° | 143.3 | 117.0 | 94.6 | 117.0 | 144.6 |
| 62.5° | 109.1 | 89.4 | 72.3 | 88.1 | 107.8 |
| 65° | 82.8 | 67.0 | 56.5 | 67.0 | 81.5 |
| 67.5° | 60.5 | 49.9 | 43.4 | 49.9 | 61.8 |
| 70° | 44.7 | 38.1 | 32.9 | 36.8 | 44.7 |
| 72.5° | 32.9 | 27.6 | 25.0 | 27.6 | 32.9 |
| 75° | 22.3 | 19.7 | 18.4 | 19.7 | 22.3 |
| 77.5° | 15.8 | 14.5 | 13.1 | 14.5 | 15.8 |
| 80° | 10.5 | 9.2 | 9.2 | 10.5 | 10.5 |
| 82.5° | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 |
| 85° | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| 87.5° | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| 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)