

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: **LD4C25D010 EX4C259035 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: LD4C25D010 EX4C259035 4LCSQWH
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

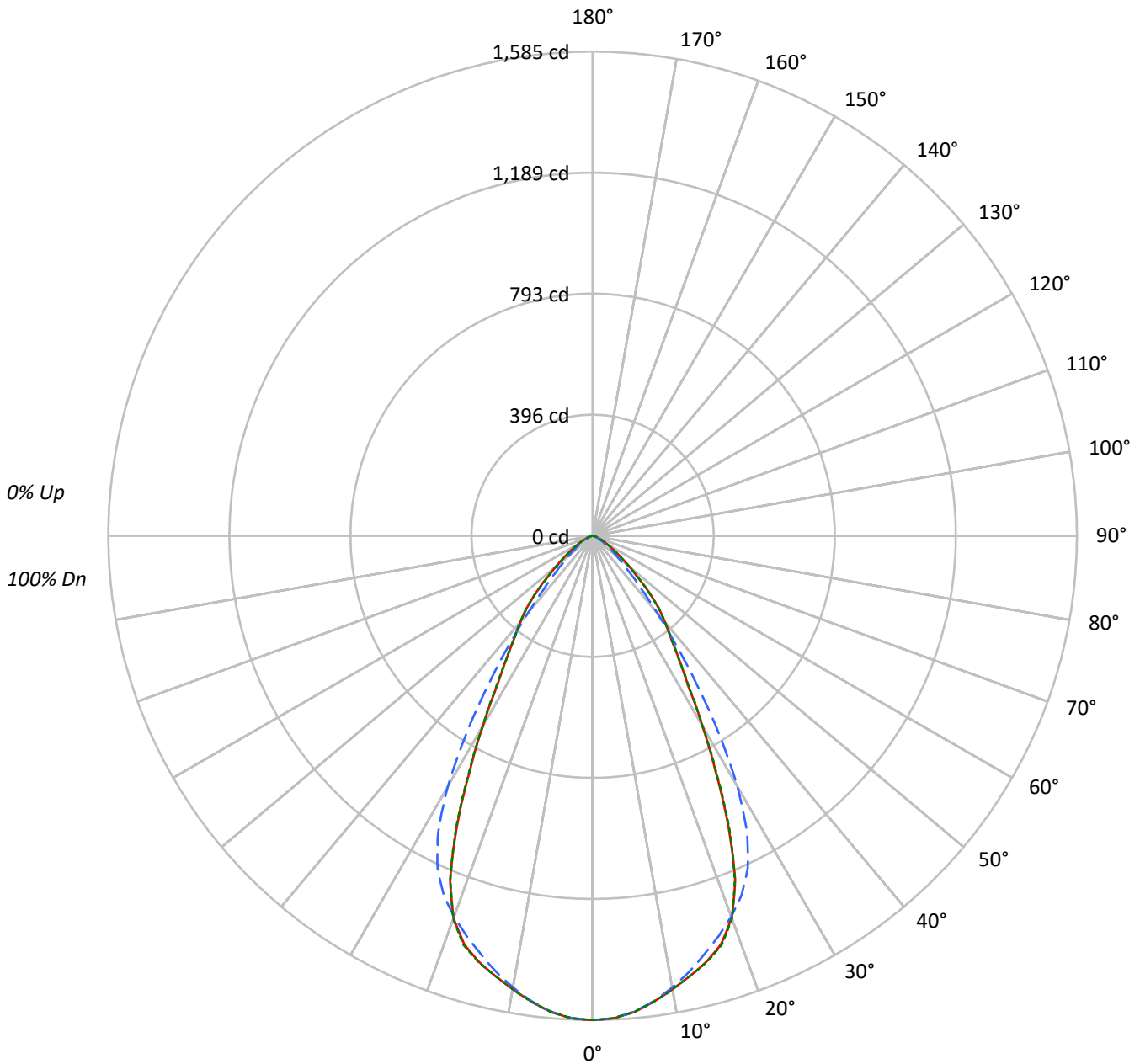
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1678.0 lumens
Efficiency: N/A
Efficacy: 53.3 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): 31.5
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#
CATALOG NUMBER: LD4C25D010 EX4C259035 4LCSQWH

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD4C25D010 EX4C259035 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 | | | | | | | | | | | | | | | | | | | |
| 1 | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 98 | 97 | 96 | 95 | 94 | 92 | | | | | | | | | | | | | | | | | | | |
| 2 | 107 | 101 | 97 | 93 | 104 | 99 | 95 | 92 | 96 | 93 | 90 | 93 | 90 | 88 | 90 | 88 | 86 | 84 | | | | | | | | | | | | | | | | | | | |
| 3 | 101 | 93 | 88 | 84 | 98 | 92 | 87 | 83 | 89 | 85 | 82 | 87 | 83 | 80 | 85 | 82 | 79 | 77 | | | | | | | | | | | | | | | | | | | |
| 4 | 95 | 87 | 80 | 76 | 93 | 85 | 80 | 75 | 83 | 78 | 74 | 81 | 77 | 74 | 79 | 76 | 73 | 71 | | | | | | | | | | | | | | | | | | | |
| 5 | 89 | 80 | 74 | 69 | 88 | 79 | 73 | 69 | 78 | 72 | 68 | 76 | 71 | 68 | 74 | 70 | 67 | 66 | | | | | | | | | | | | | | | | | | | |
| 6 | 85 | 75 | 68 | 64 | 83 | 74 | 68 | 63 | 72 | 67 | 63 | 71 | 66 | 63 | 70 | 65 | 62 | 61 | | | | | | | | | | | | | | | | | | | |
| 7 | 80 | 70 | 63 | 59 | 79 | 69 | 63 | 59 | 68 | 62 | 58 | 67 | 62 | 58 | 65 | 61 | 58 | 56 | | | | | | | | | | | | | | | | | | | |
| 8 | 76 | 65 | 59 | 55 | 74 | 65 | 59 | 54 | 64 | 58 | 54 | 63 | 58 | 54 | 62 | 57 | 54 | 52 | | | | | | | | | | | | | | | | | | | |
| 9 | 72 | 61 | 55 | 51 | 71 | 61 | 55 | 51 | 60 | 54 | 51 | 59 | 54 | 50 | 58 | 54 | 50 | 49 | | | | | | | | | | | | | | | | | | | |
| 10 | 68 | 58 | 52 | 48 | 67 | 57 | 51 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 55 | 50 | 47 | 46 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 152973 | 152973 | 152973 |
| 5° | 151572 | 151475 | 151524 |
| 10° | 147691 | 147103 | 147691 |
| 15° | 144135 | 141538 | 144285 |
| 20° | 136659 | 136145 | 136915 |
| 25° | 112096 | 127906 | 112681 |
| 30° | 79941 | 105667 | 80052 |
| 35° | 57659 | 70027 | 57835 |
| 40° | 46226 | 40684 | 46226 |
| 45° | 35274 | 23743 | 35001 |
| 50° | 23267 | 15161 | 23192 |
| 55° | 15645 | 10178 | 15477 |
| 60° | 10517 | 6947 | 10614 |
| 65° | 7192 | 4909 | 7078 |
| 70° | 4796 | 3526 | 4796 |
| 75° | 3169 | 2610 | 3169 |
| 80° | 2223 | 1945 | 2223 |
| 85° | 1661 | 1661 | 1661 |



TEST NUMBER: P#

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 147.4 | 8.8 |
| 10°-20° | 401.9 | 23.9 |
| 20°-30° | 502.4 | 29.9 |
| 30°-40° | 338.0 | 20.1 |
| 40°-50° | 178.5 | 10.6 |
| 50°-60° | 72.5 | 4.3 |
| 60°-70° | 26.9 | 1.6 |
| 70°-80° | 8.7 | 0.5 |
| 80°-90° | 1.9 | 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° | 1051.6 | 62.7 |
| 0°-40° | 1389.6 | 82.8 |
| 0°-60° | 1640.6 | 97.8 |
| 0°-90° | 1678.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1678.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1585 | 1585 | 1585 | 1585 | 1585 | |
| 5° | 1565 | 1563 | 1564 | 1564 | 1564 | 147 |
| 15° | 1443 | 1431 | 1417 | 1430 | 1444 | 404 |
| 25° | 1053 | 1112 | 1201 | 1114 | 1058 | 474 |
| 35° | 490 | 514 | 594 | 515 | 491 | 315 |
| 45° | 258 | 246 | 174 | 244 | 256 | 198 |
| 55° | 93 | 78 | 60 | 78 | 92 | 86 |
| 65° | 32 | 26 | 22 | 26 | 31 | 32 |
| 75° | 8 | 8 | 7 | 8 | 8 | 10 |
| 85° | 2 | 2 | 2 | 2 | 2 | 2 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P#

CATALOG NUMBER: LD4C25D010 EX4C259035 4LCSQWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1585.4 | 1585.4 | 1585.4 | 1585.4 | 1585.4 |
| 2.5° | 1581.4 | 1580.4 | 1579.9 | 1579.9 | 1580.4 |
| 5° | 1564.9 | 1563.4 | 1563.9 | 1563.9 | 1564.4 |
| 7.5° | 1538.4 | 1537.9 | 1536.4 | 1538.4 | 1538.4 |
| 10° | 1507.4 | 1504.9 | 1501.4 | 1505.4 | 1507.4 |
| 12.5° | 1475.4 | 1467.9 | 1461.9 | 1467.9 | 1475.4 |
| 15° | 1442.9 | 1430.9 | 1416.9 | 1430.4 | 1444.4 |
| 17.5° | 1400.4 | 1388.4 | 1372.9 | 1390.9 | 1404.4 |
| 20° | 1330.9 | 1331.9 | 1325.9 | 1330.9 | 1333.4 |
| 22.5° | 1219.4 | 1241.9 | 1273.4 | 1242.4 | 1215.9 |
| 25° | 1052.9 | 1111.9 | 1201.4 | 1113.9 | 1058.4 |
| 27.5° | 874.4 | 949.4 | 1095.9 | 953.9 | 879.9 |
| 30° | 717.5 | 783.9 | 948.4 | 788.4 | 718.5 |
| 32.5° | 581.0 | 630.5 | 770.9 | 636.5 | 587.5 |
| 35° | 489.5 | 514.0 | 594.5 | 515.0 | 491.0 |
| 37.5° | 419.5 | 419.5 | 441.5 | 421.5 | 417.5 |
| 40° | 367.0 | 351.0 | 323.0 | 350.5 | 367.0 |
| 42.5° | 318.0 | 294.0 | 234.5 | 293.0 | 319.0 |
| 45° | 258.5 | 245.5 | 174.0 | 244.5 | 256.5 |
| 47.5° | 198.5 | 189.5 | 131.0 | 188.5 | 200.0 |
| 50° | 155.0 | 141.0 | 101.0 | 140.0 | 154.5 |
| 52.5° | 119.0 | 104.0 | 78.0 | 104.0 | 118.0 |
| 55° | 93.0 | 78.0 | 60.5 | 78.0 | 92.0 |
| 57.5° | 71.5 | 59.5 | 46.0 | 58.5 | 71.0 |
| 60° | 54.5 | 44.5 | 36.0 | 44.5 | 55.0 |
| 62.5° | 41.5 | 34.0 | 27.5 | 33.5 | 41.0 |
| 65° | 31.5 | 25.5 | 21.5 | 25.5 | 31.0 |
| 67.5° | 23.0 | 19.0 | 16.5 | 19.0 | 23.5 |
| 70° | 17.0 | 14.5 | 12.5 | 14.0 | 17.0 |
| 72.5° | 12.5 | 10.5 | 9.5 | 10.5 | 12.5 |
| 75° | 8.5 | 7.5 | 7.0 | 7.5 | 8.5 |
| 77.5° | 6.0 | 5.5 | 5.0 | 5.5 | 6.0 |
| 80° | 4.0 | 3.5 | 3.5 | 4.0 | 4.0 |
| 82.5° | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| 85° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 87.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 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)