

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: P857332

Luminaire Tested: **LD4C25D010 EU4259027 4LBMDSWWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857332
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C25D010 EU4259027 4LBMDSWWH
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

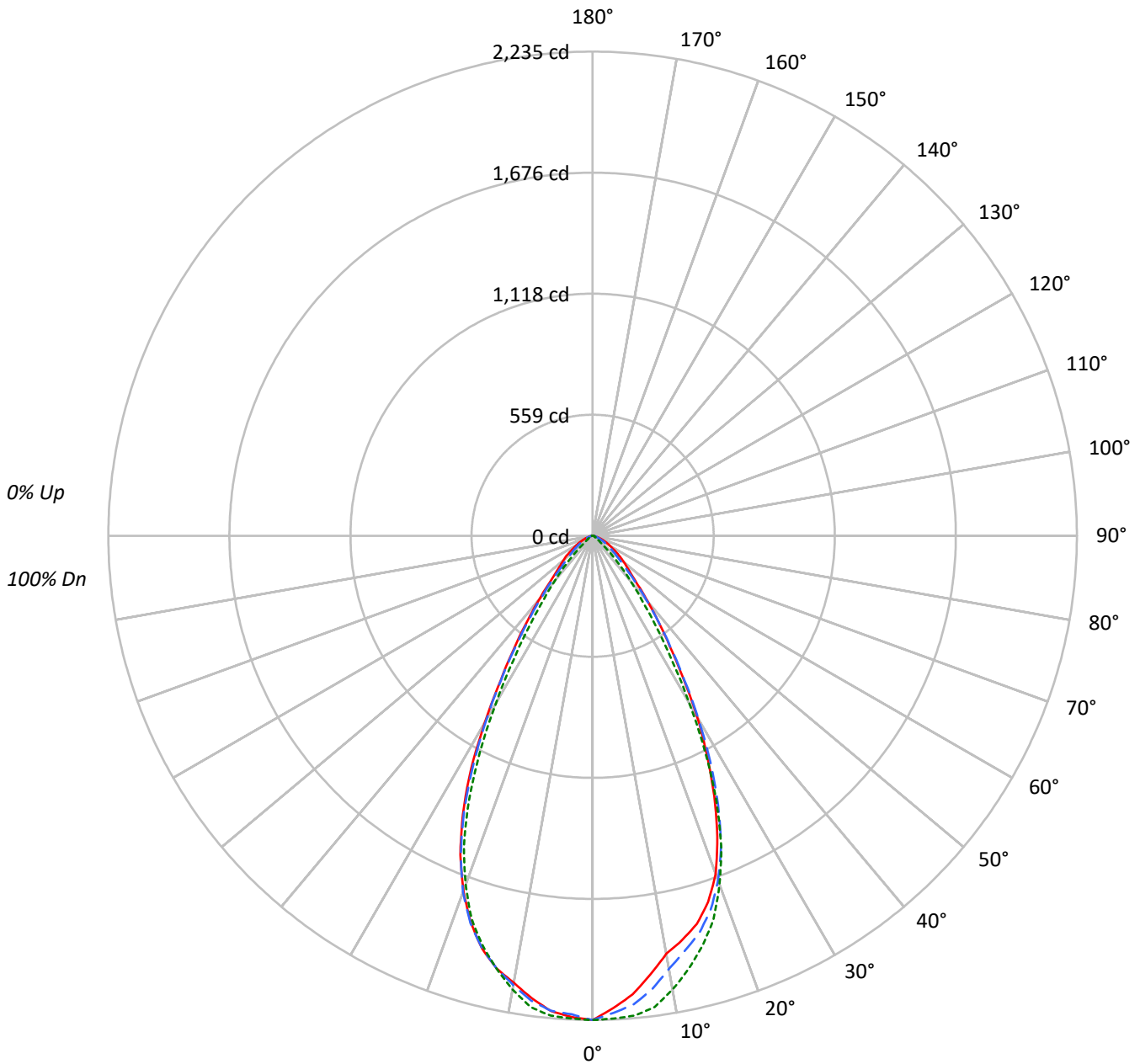
Lumens per Lamp: N/A
Luminaire Lumens: 2035.0 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
Input Voltage (V): NR
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: P857332

CATALOG NUMBER: LD4C25D010 EU4259027 4LBMDSWWH

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 | 111 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 99 | 97 | 97 | 95 | 94 | 92 | | | | | | | | | | | | | | | | | | | |
| 2 | 107 | 102 | 97 | 94 | 105 | 100 | 96 | 93 | 97 | 93 | 91 | 94 | 91 | 89 | 91 | 89 | 87 | 85 | | | | | | | | | | | | | | | | | | | |
| 3 | 101 | 94 | 89 | 85 | 99 | 93 | 88 | 84 | 90 | 86 | 83 | 88 | 84 | 81 | 85 | 83 | 80 | 78 | | | | | | | | | | | | | | | | | | | |
| 4 | 96 | 88 | 82 | 77 | 94 | 86 | 81 | 77 | 84 | 80 | 76 | 82 | 78 | 75 | 80 | 77 | 74 | 72 | | | | | | | | | | | | | | | | | | | |
| 5 | 91 | 82 | 75 | 71 | 89 | 81 | 75 | 71 | 79 | 74 | 70 | 77 | 73 | 69 | 76 | 72 | 69 | 67 | | | | | | | | | | | | | | | | | | | |
| 6 | 86 | 76 | 70 | 66 | 84 | 76 | 70 | 65 | 74 | 69 | 65 | 73 | 68 | 64 | 71 | 67 | 64 | 62 | | | | | | | | | | | | | | | | | | | |
| 7 | 81 | 72 | 65 | 61 | 80 | 71 | 65 | 61 | 70 | 64 | 60 | 68 | 64 | 60 | 67 | 63 | 60 | 58 | | | | | | | | | | | | | | | | | | | |
| 8 | 77 | 67 | 61 | 57 | 76 | 67 | 61 | 57 | 66 | 60 | 56 | 65 | 60 | 56 | 64 | 59 | 56 | 55 | | | | | | | | | | | | | | | | | | | |
| 9 | 74 | 63 | 57 | 53 | 72 | 63 | 57 | 53 | 62 | 57 | 53 | 61 | 56 | 53 | 60 | 56 | 53 | 51 | | | | | | | | | | | | | | | | | | | |
| 10 | 70 | 60 | 54 | 50 | 69 | 60 | 54 | 50 | 59 | 53 | 50 | 58 | 53 | 50 | 57 | 53 | 49 | 48 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 274627 | 274627 | 274627 |
| 5° | 262049 | 274183 | 271631 |
| 10° | 244408 | 265303 | 261423 |
| 15° | 236021 | 249185 | 250940 |
| 20° | 217103 | 223876 | 227942 |
| 25° | 179934 | 183215 | 192107 |
| 30° | 136880 | 126595 | 140809 |
| 35° | 92685 | 75858 | 93720 |
| 40° | 63123 | 43461 | 61183 |
| 45° | 43783 | 21891 | 41385 |
| 50° | 35626 | 8906 | 33313 |
| 55° | 28830 | 5547 | 26260 |
| 60° | 22900 | 4251 | 20787 |
| 65° | 18052 | 3517 | 16046 |
| 70° | 13650 | 3089 | 12392 |
| 75° | 9826 | 2468 | 9019 |
| 80° | 7358 | 2476 | 6084 |
| 85° | 4934 | 2396 | 4934 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 205.5 | 10.1 |
| 10°-20° | 540.0 | 26.5 |
| 20°-30° | 619.6 | 30.4 |
| 30°-40° | 376.4 | 18.5 |
| 40°-50° | 161.3 | 7.9 |
| 50°-60° | 77.4 | 3.8 |
| 60°-70° | 37.6 | 1.8 |
| 70°-80° | 14.0 | 0.7 |
| 80°-90° | 3.2 | 0.2 |
| 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° | 1365.1 | 67.1 |
| 0°-40° | 1741.5 | 85.6 |
| 0°-60° | 1980.2 | 97.3 |
| 0°-90° | 2035.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2035.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2235 | 2235 | 2235 | 2235 | 2235 | |
| 5° | 2125 | 2172 | 2223 | 2201 | 2203 | 197 |
| 15° | 1856 | 1899 | 1959 | 1971 | 1973 | 517 |
| 25° | 1327 | 1371 | 1352 | 1403 | 1417 | 602 |
| 35° | 618 | 627 | 506 | 611 | 625 | 396 |
| 45° | 252 | 224 | 126 | 202 | 238 | 205 |
| 55° | 135 | 100 | 26 | 90 | 123 | 122 |
| 65° | 62 | 41 | 12 | 38 | 55 | 63 |
| 75° | 21 | 14 | 5 | 12 | 19 | 23 |
| 85° | 4 | 4 | 2 | 2 | 4 | 5 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P857332

CATALOG NUMBER: LD4C25D010 EU4259027 4LBMSWWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2235.4 | 2235.4 | 2235.4 | 2235.4 | 2235.4 | 2235.4 | 2235.4 | 2235.4 | 2235.4 |
| 2.5° | 2181.9 | 2206.1 | 2204.3 | 2225.1 | 2230.2 | 2225.1 | 2211.3 | 2225.1 | 2223.3 |
| 5° | 2124.9 | 2152.6 | 2171.5 | 2206.1 | 2223.3 | 2219.9 | 2200.9 | 2204.3 | 2202.6 |
| 7.5° | 2042.1 | 2076.6 | 2109.4 | 2161.2 | 2194.0 | 2192.3 | 2164.6 | 2159.5 | 2152.6 |
| 10° | 1959.2 | 1992.0 | 2030.0 | 2083.5 | 2126.7 | 2133.6 | 2106.0 | 2099.0 | 2095.6 |
| 12.5° | 1910.9 | 1936.8 | 1962.7 | 2009.3 | 2047.3 | 2061.1 | 2045.5 | 2047.3 | 2045.5 |
| 15° | 1855.7 | 1881.5 | 1898.8 | 1933.3 | 1959.2 | 1978.2 | 1971.3 | 1981.7 | 1973.0 |
| 17.5° | 1772.8 | 1803.9 | 1810.8 | 1836.7 | 1855.7 | 1867.7 | 1874.6 | 1885.0 | 1871.2 |
| 20° | 1660.6 | 1684.8 | 1693.4 | 1703.8 | 1712.4 | 1727.9 | 1748.6 | 1759.0 | 1743.5 |
| 22.5° | 1503.5 | 1550.1 | 1548.4 | 1543.2 | 1551.8 | 1557.0 | 1589.8 | 1607.1 | 1595.0 |
| 25° | 1327.4 | 1375.8 | 1370.6 | 1349.9 | 1351.6 | 1362.0 | 1403.4 | 1425.8 | 1417.2 |
| 27.5° | 1142.7 | 1187.6 | 1175.5 | 1135.8 | 1125.5 | 1141.0 | 1194.5 | 1220.4 | 1215.2 |
| 30° | 964.9 | 994.3 | 975.3 | 904.5 | 892.4 | 911.4 | 980.5 | 1006.4 | 992.6 |
| 32.5° | 773.3 | 795.8 | 787.1 | 700.8 | 680.1 | 699.1 | 780.2 | 804.4 | 788.9 |
| 35° | 618.0 | 638.7 | 626.6 | 524.8 | 505.8 | 526.5 | 611.1 | 638.7 | 624.9 |
| 37.5° | 495.4 | 511.0 | 495.4 | 386.7 | 369.4 | 390.1 | 471.3 | 507.5 | 490.2 |
| 40° | 393.6 | 405.7 | 384.9 | 284.8 | 271.0 | 281.4 | 357.3 | 393.6 | 381.5 |
| 42.5° | 310.7 | 319.3 | 296.9 | 208.9 | 193.3 | 207.1 | 269.3 | 302.1 | 295.2 |
| 45° | 252.0 | 252.0 | 224.4 | 145.0 | 126.0 | 139.8 | 202.0 | 236.5 | 238.2 |
| 47.5° | 215.8 | 210.6 | 176.1 | 96.7 | 72.5 | 91.5 | 160.5 | 196.8 | 202.0 |
| 50° | 186.4 | 179.5 | 145.0 | 70.8 | 46.6 | 65.6 | 132.9 | 169.2 | 174.3 |
| 52.5° | 160.5 | 155.4 | 120.8 | 55.2 | 32.8 | 50.1 | 112.2 | 146.7 | 151.9 |
| 55° | 134.6 | 131.2 | 100.1 | 43.2 | 25.9 | 38.0 | 89.8 | 119.1 | 122.6 |
| 57.5° | 110.5 | 105.3 | 81.1 | 36.3 | 20.7 | 31.1 | 74.2 | 98.4 | 101.8 |
| 60° | 93.2 | 88.0 | 65.6 | 29.3 | 17.3 | 24.2 | 60.4 | 81.1 | 84.6 |
| 62.5° | 77.7 | 72.5 | 53.5 | 24.2 | 13.8 | 20.7 | 48.3 | 65.6 | 69.0 |
| 65° | 62.1 | 58.7 | 41.4 | 19.0 | 12.1 | 15.5 | 38.0 | 51.8 | 55.2 |
| 67.5° | 50.1 | 46.6 | 32.8 | 15.5 | 10.4 | 12.1 | 29.3 | 41.4 | 44.9 |
| 70° | 38.0 | 34.5 | 24.2 | 12.1 | 8.6 | 10.4 | 22.4 | 31.1 | 34.5 |
| 72.5° | 27.6 | 25.9 | 19.0 | 10.4 | 6.9 | 8.6 | 15.5 | 22.4 | 25.9 |
| 75° | 20.7 | 19.0 | 13.8 | 6.9 | 5.2 | 6.9 | 12.1 | 17.3 | 19.0 |
| 77.5° | 13.8 | 13.8 | 10.4 | 5.2 | 5.2 | 5.2 | 8.6 | 12.1 | 12.1 |
| 80° | 10.4 | 8.6 | 6.9 | 3.5 | 3.5 | 3.5 | 5.2 | 8.6 | 8.6 |
| 82.5° | 6.9 | 5.2 | 5.2 | 3.5 | 3.5 | 3.5 | 3.5 | 5.2 | 5.2 |
| 85° | 3.5 | 3.5 | 3.5 | 1.7 | 1.7 | 1.7 | 1.7 | 3.5 | 3.5 |
| 87.5° | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 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)