

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: P839751

Luminaire Tested: **LDS4C15D010 EU4159027 4LBSGPH**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P839751
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-18)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LDS4C15D010 EU4159027 4LBSGPH
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBS TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

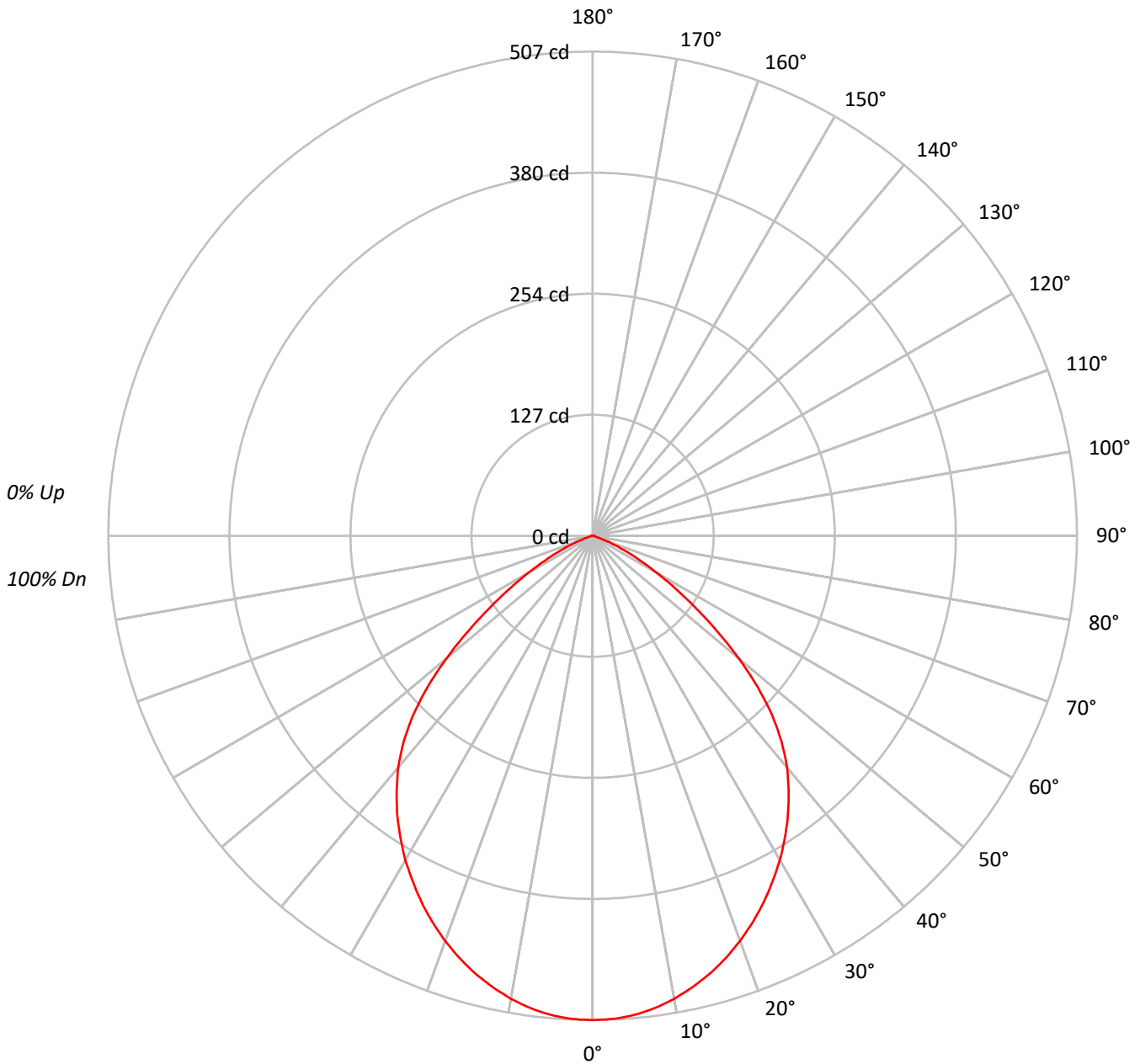
Lumens per Lamp: N/A
Luminaire Lumens: 966.0 lumens
Efficiency: N/A
Efficacy: 61.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
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: P839751

CATALOG NUMBER: LDS4C15D010 EU4159027 4LBSGPH

Luminous Intensity Polar Plot





TEST NUMBER: P839751

CATALOG NUMBER: LDS4C15D010 EU4159027 4LBSGPH

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 | 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 | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99 | 97 | 98 | 96 | 94 | 94 | 93 | 92 | 90 | | | 90 |
| 2 | 104 | 97 | 92 | 88 | 101 | 96 | 91 | 87 | 92 | 88 | 85 | 89 | 86 | 83 | 86 | 83 | 81 | 79 | | | 79 |
| 3 | 96 | 88 | 81 | 76 | 94 | 86 | 80 | 75 | 83 | 78 | 74 | 81 | 76 | 73 | 78 | 75 | 72 | 70 | | | 70 |
| 4 | 89 | 79 | 72 | 66 | 87 | 78 | 71 | 66 | 76 | 70 | 65 | 73 | 68 | 64 | 71 | 67 | 63 | 62 | | | 62 |
| 5 | 83 | 72 | 64 | 59 | 81 | 71 | 64 | 58 | 69 | 63 | 58 | 67 | 61 | 57 | 65 | 60 | 57 | 55 | | | 55 |
| 6 | 77 | 65 | 58 | 52 | 75 | 65 | 57 | 52 | 63 | 56 | 52 | 61 | 56 | 51 | 60 | 55 | 51 | 49 | | | 49 |
| 7 | 72 | 60 | 52 | 47 | 70 | 59 | 52 | 47 | 58 | 51 | 46 | 56 | 50 | 46 | 55 | 50 | 46 | 44 | | | 44 |
| 8 | 67 | 55 | 47 | 42 | 66 | 54 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 41 | 40 | | | 40 |
| 9 | 63 | 51 | 43 | 38 | 62 | 50 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 36 | | | 36 |
| 10 | 59 | 47 | 40 | 35 | 58 | 47 | 40 | 35 | 46 | 39 | 35 | 45 | 39 | 35 | 44 | 39 | 35 | 33 | | | 33 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 62311 |
| 5° | 62105 |
| 10° | 61414 |
| 15° | 60363 |
| 20° | 59015 |
| 25° | 57434 |
| 30° | 55623 |
| 35° | 53482 |
| 40° | 50790 |
| 45° | 46180 |
| 50° | 38111 |
| 55° | 28059 |
| 60° | 19042 |
| 65° | 11163 |
| 70° | 4418 |
| 75° | 997 |
| 80° | 1273 |
| 85° | 2255 |



TEST NUMBER: P839751

CATALOG NUMBER: LDS4C15D010 EU4159027 4LBSGPH

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 47.7 | 4.9 |
| 10°-20° | 133.6 | 13.8 |
| 20°-30° | 194.9 | 20.2 |
| 30°-40° | 222.5 | 23.0 |
| 40°-50° | 202.3 | 20.9 |
| 50°-60° | 119.3 | 12.3 |
| 60°-70° | 40.0 | 4.1 |
| 70°-80° | 4.2 | 0.4 |
| 80°-90° | 1.5 | 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° | 376.3 | 39.0 |
| 0°-40° | 598.8 | 62.0 |
| 0°-60° | 920.3 | 95.3 |
| 0°-90° | 966.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 966.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 507 | |
| 5° | 504 | 48 |
| 15° | 475 | 134 |
| 25° | 424 | 195 |
| 35° | 357 | 222 |
| 45° | 266 | 202 |
| 55° | 131 | 119 |
| 65° | 38 | 40 |
| 75° | 2 | 4 |
| 85° | 2 | 1 |
| 90° | 0 | |



TEST NUMBER: P839751

CATALOG NUMBER: LDS4C15D010 EU4159027 4LBSGPH

CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|-------|
| 0° | 507.2 |
| 2.5° | 506.4 |
| 5° | 503.6 |
| 7.5° | 498.9 |
| 10° | 492.3 |
| 12.5° | 484.0 |
| 15° | 474.6 |
| 17.5° | 463.6 |
| 20° | 451.4 |
| 22.5° | 438.0 |
| 25° | 423.7 |
| 27.5° | 408.0 |
| 30° | 392.1 |
| 32.5° | 374.6 |
| 35° | 356.6 |
| 37.5° | 337.0 |
| 40° | 316.7 |
| 42.5° | 292.9 |
| 45° | 265.8 |
| 47.5° | 234.4 |
| 50° | 199.4 |
| 52.5° | 164.5 |
| 55° | 131.0 |
| 57.5° | 102.6 |
| 60° | 77.5 |
| 62.5° | 56.1 |
| 65° | 38.4 |
| 67.5° | 23.5 |
| 70° | 12.3 |
| 72.5° | 4.7 |
| 75° | 2.1 |
| 77.5° | 2.1 |
| 80° | 1.8 |
| 82.5° | 1.6 |
| 85° | 1.6 |
| 87.5° | 1.3 |
| 90° | 0.0 |



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°







(END OF REPORT)