

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: P839648

Luminaire Tested: **LDS4C100D010 EU41009027 4LBPSMB**

Issue Date: 8/24/2022

Test Information

Test Method: LM-79-08
Report Number: P839648
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: LDS4C100D010 EU41009027 4LBPSMB
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBPS TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Summary

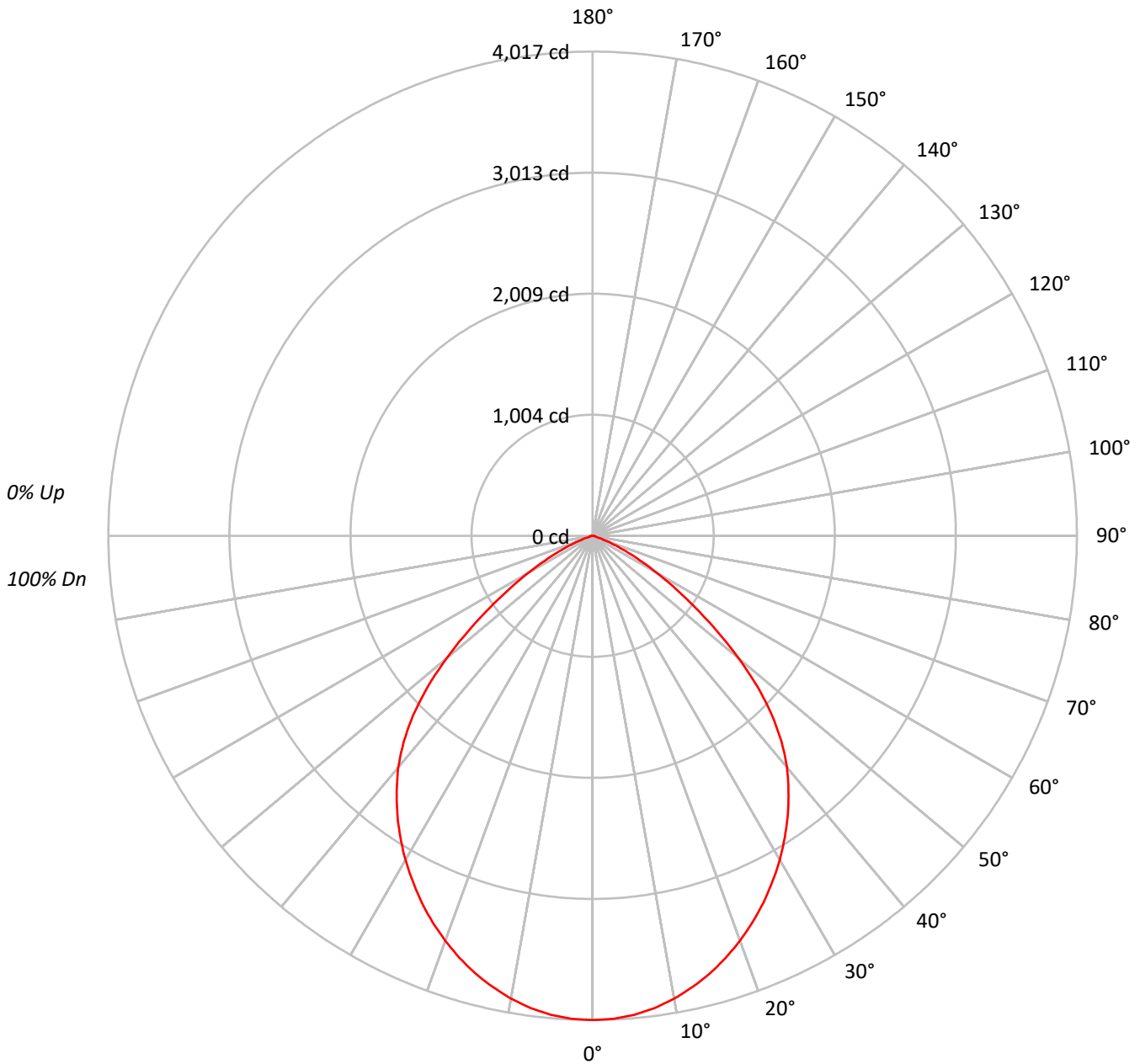
Lumens per Lamp: N/A
Luminaire Lumens: 7650.9 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 114.4
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: P839648

CATALOG NUMBER: LDS4C100D010 EU41009027 4LBPSMB

Luminous Intensity Polar Plot





TEST NUMBER: P839648

CATALOG NUMBER: LDS4C100D010 EU41009027 4LBPSMB

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 | 100 | 100 |
| 1 | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99 | 97 | 98 | 96 | 94 | 94 | 93 | 92 | 90 | 90 | 90 | 90 |
| 2 | 104 | 97 | 92 | 88 | 101 | 96 | 91 | 87 | 92 | 88 | 85 | 89 | 86 | 83 | 86 | 83 | 81 | 79 | 79 | 79 | 79 |
| 3 | 96 | 88 | 81 | 76 | 94 | 86 | 80 | 75 | 83 | 78 | 74 | 81 | 76 | 73 | 78 | 75 | 72 | 70 | 70 | 70 | 70 |
| 4 | 89 | 79 | 72 | 66 | 87 | 78 | 71 | 66 | 76 | 70 | 65 | 73 | 68 | 64 | 71 | 67 | 63 | 62 | 62 | 62 | 62 |
| 5 | 83 | 72 | 64 | 59 | 81 | 71 | 64 | 58 | 69 | 63 | 58 | 67 | 61 | 57 | 65 | 60 | 57 | 55 | 55 | 55 | 55 |
| 6 | 77 | 65 | 58 | 52 | 75 | 65 | 57 | 52 | 63 | 56 | 52 | 61 | 56 | 51 | 60 | 55 | 51 | 49 | 49 | 49 | 49 |
| 7 | 72 | 60 | 52 | 47 | 70 | 59 | 52 | 47 | 58 | 51 | 46 | 56 | 50 | 46 | 55 | 50 | 46 | 44 | 44 | 44 | 44 |
| 8 | 67 | 55 | 47 | 42 | 66 | 54 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 41 | 40 | 40 | 40 | 40 |
| 9 | 63 | 51 | 43 | 38 | 62 | 50 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 36 | 36 | 36 | 36 |
| 10 | 59 | 47 | 40 | 35 | 58 | 47 | 40 | 35 | 46 | 39 | 35 | 45 | 39 | 35 | 44 | 39 | 35 | 33 | 33 | 33 | 33 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 493552 |
| 5° | 491873 |
| 10° | 486458 |
| 15° | 478084 |
| 20° | 467375 |
| 25° | 454891 |
| 30° | 440557 |
| 35° | 423593 |
| 40° | 402218 |
| 45° | 365690 |
| 50° | 301922 |
| 55° | 222306 |
| 60° | 150889 |
| 65° | 88343 |
| 70° | 34914 |
| 75° | 7832 |
| 80° | 10259 |
| 85° | 17479 |



TEST NUMBER: P839648

CATALOG NUMBER: LDS4C100D010 EU41009027 4LBPSMB

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 377.9 | 4.9 |
| 10°-20° | 1058.4 | 13.8 |
| 20°-30° | 1543.9 | 20.2 |
| 30°-40° | 1762.3 | 23.0 |
| 40°-50° | 1602.1 | 20.9 |
| 50°-60° | 944.9 | 12.4 |
| 60°-70° | 316.9 | 4.1 |
| 70°-80° | 33.1 | 0.4 |
| 80°-90° | 11.5 | 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° | 2980.2 | 39.0 |
| 0°-40° | 4742.5 | 62.0 |
| 0°-60° | 7289.5 | 95.3 |
| 0°-90° | 7650.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 7650.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 4017 | |
| 5° | 3988 | 378 |
| 15° | 3759 | 1058 |
| 25° | 3356 | 1544 |
| 35° | 2824 | 1762 |
| 45° | 2105 | 1602 |
| 55° | 1038 | 945 |
| 65° | 304 | 317 |
| 75° | 16 | 33 |
| 85° | 12 | 12 |
| 90° | 0 | |



TEST NUMBER: P839648

CATALOG NUMBER: LDS4C100D010 EU41009027 4LBPSMB

CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 4017.4 |
| 2.5° | 4011.2 |
| 5° | 3988.5 |
| 7.5° | 3951.2 |
| 10° | 3899.5 |
| 12.5° | 3833.4 |
| 15° | 3758.9 |
| 17.5° | 3672.1 |
| 20° | 3574.9 |
| 22.5° | 3469.5 |
| 25° | 3355.8 |
| 27.5° | 3231.7 |
| 30° | 3105.6 |
| 32.5° | 2967.0 |
| 35° | 2824.4 |
| 37.5° | 2669.3 |
| 40° | 2508.0 |
| 42.5° | 2319.9 |
| 45° | 2104.8 |
| 47.5° | 1856.7 |
| 50° | 1579.7 |
| 52.5° | 1302.6 |
| 55° | 1037.9 |
| 57.5° | 812.6 |
| 60° | 614.1 |
| 62.5° | 444.5 |
| 65° | 303.9 |
| 67.5° | 186.1 |
| 70° | 97.2 |
| 72.5° | 37.2 |
| 75° | 16.5 |
| 77.5° | 16.5 |
| 80° | 14.5 |
| 82.5° | 12.4 |
| 85° | 12.4 |
| 87.5° | 10.3 |
| 90° | 0.0 |



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°







(END OF REPORT)