

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: P856894

Luminaire Tested: **LX4C10D010 EX4C109030 4LBSLI**

Issue Date: 2/9/2022

Test Information

Test Method: LM-79-08
Report Number: P856894
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208407)
Test Lab: INNOVATION CENTER
Issue Date: 2/9/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C10D010 EX4C109030 4LBSLI
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBS TRIM WITH LI FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

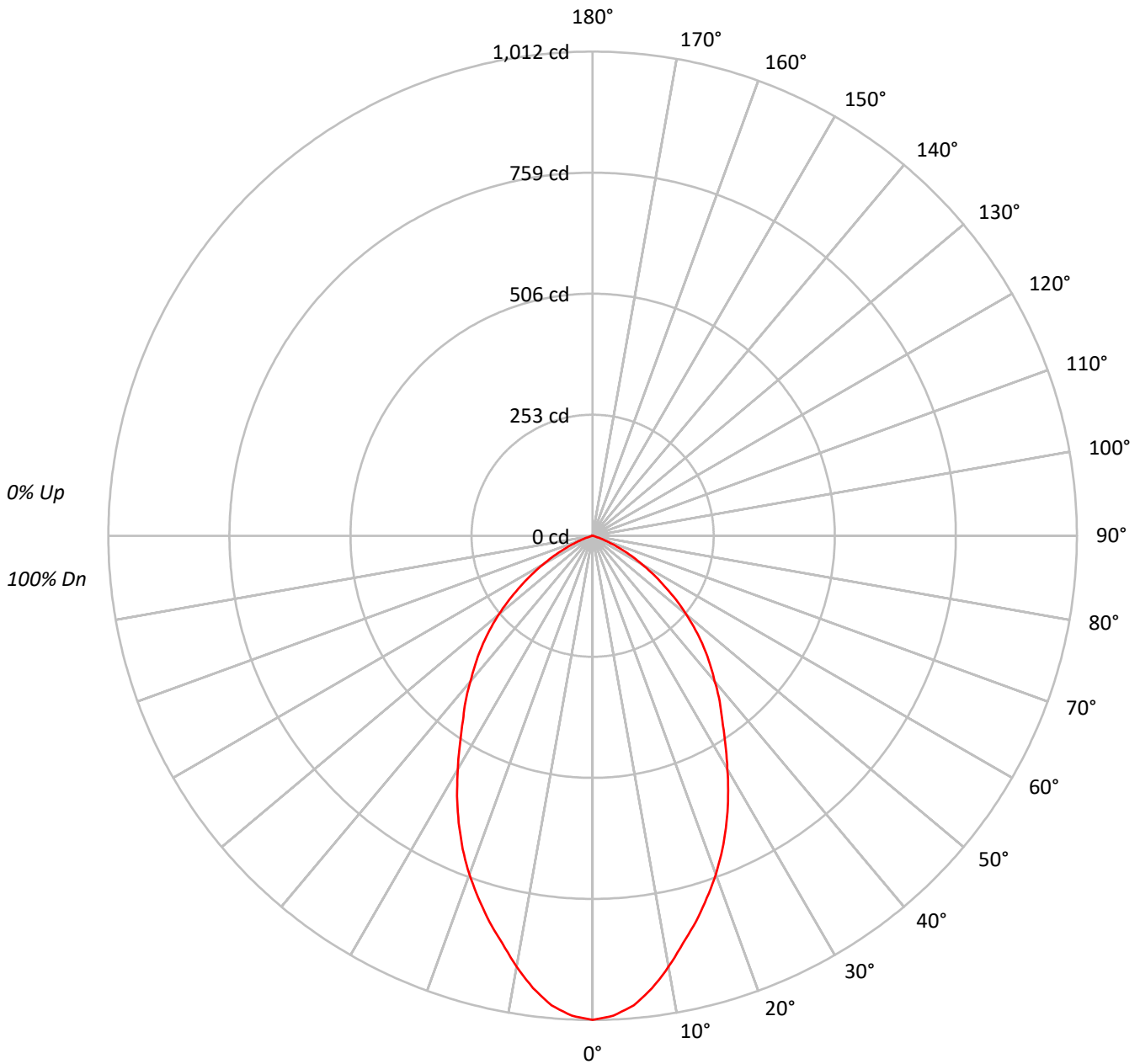
Lumens per Lamp: N/A
Luminaire Lumens: 1417.1 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 17
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: P856894

CATALOG NUMBER: LX4C10D010 EX4C109030 4LBSLI

Luminous Intensity Polar Plot





TEST NUMBER: P856894

CATALOG NUMBER: LX4C10D010 EX4C109030 4LBSLI

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 | | | |
| 1 | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 98 | 98 | 96 | 95 | 95 | 93 | 92 | 90 | | | |
| 2 | 104 | 98 | 93 | 88 | 102 | 96 | 91 | 87 | 93 | 89 | 85 | 90 | 86 | 84 | 87 | 84 | 82 | 80 | | | |
| 3 | 97 | 89 | 82 | 77 | 95 | 87 | 81 | 77 | 84 | 79 | 75 | 82 | 78 | 74 | 79 | 76 | 73 | 71 | | | |
| 4 | 90 | 81 | 73 | 68 | 88 | 79 | 73 | 68 | 77 | 71 | 67 | 75 | 70 | 66 | 73 | 69 | 65 | 63 | | | |
| 5 | 84 | 73 | 66 | 61 | 82 | 72 | 65 | 60 | 70 | 64 | 60 | 69 | 63 | 59 | 67 | 62 | 59 | 57 | | | |
| 6 | 79 | 67 | 60 | 54 | 77 | 66 | 59 | 54 | 65 | 58 | 54 | 63 | 58 | 53 | 62 | 57 | 53 | 51 | | | |
| 7 | 74 | 62 | 54 | 49 | 72 | 61 | 54 | 49 | 60 | 53 | 49 | 58 | 53 | 48 | 57 | 52 | 48 | 46 | | | |
| 8 | 69 | 57 | 50 | 45 | 68 | 57 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 44 | 53 | 48 | 44 | 42 | | | |
| 9 | 65 | 53 | 46 | 41 | 64 | 53 | 46 | 41 | 52 | 45 | 41 | 51 | 45 | 41 | 50 | 44 | 41 | 39 | | | |
| 10 | 61 | 50 | 43 | 38 | 60 | 49 | 42 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 46 | 41 | 37 | 36 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 124315 |
| 5° | 121510 |
| 10° | 114095 |
| 15° | 106151 |
| 20° | 98446 |
| 25° | 89737 |
| 30° | 79881 |
| 35° | 70834 |
| 40° | 63652 |
| 45° | 56970 |
| 50° | 48871 |
| 55° | 39325 |
| 60° | 29288 |
| 65° | 18692 |
| 70° | 9016 |
| 75° | 1519 |
| 80° | 1061 |
| 85° | 0 |



TEST NUMBER: P856894

CATALOG NUMBER: LX4C10D010 EX4C109030 4LBSLI

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 91.8 | 6.5 |
| 10°-20° | 234.0 | 16.5 |
| 20°-30° | 303.2 | 21.4 |
| 30°-40° | 297.1 | 21.0 |
| 40°-50° | 251.8 | 17.8 |
| 50°-60° | 165.1 | 11.7 |
| 60°-70° | 66.3 | 4.7 |
| 70°-80° | 7.6 | 0.5 |
| 80°-90° | 0.2 | 0.0 |
| 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° | 629.0 | 44.4 |
| 0°-40° | 926.1 | 65.3 |
| 0°-60° | 1343.0 | 94.8 |
| 0°-90° | 1417.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1417.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1012 | |
| 5° | 985 | 92 |
| 15° | 835 | 234 |
| 25° | 662 | 303 |
| 35° | 472 | 297 |
| 45° | 328 | 252 |
| 55° | 184 | 165 |
| 65° | 64 | 66 |
| 75° | 3 | 8 |
| 85° | 0 | 0 |
| 90° | 0 | |



TEST NUMBER: P856894

CATALOG NUMBER: LX4C10D010 EX4C109030 4LBSLI

CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 1011.9 |
| 2.5° | 1004.1 |
| 5° | 985.3 |
| 7.5° | 953.8 |
| 10° | 914.6 |
| 12.5° | 872.2 |
| 15° | 834.6 |
| 17.5° | 793.8 |
| 20° | 753.0 |
| 22.5° | 709.1 |
| 25° | 662.0 |
| 27.5° | 613.4 |
| 30° | 563.1 |
| 32.5° | 516.2 |
| 35° | 472.3 |
| 37.5° | 436.2 |
| 40° | 396.9 |
| 42.5° | 362.4 |
| 45° | 327.9 |
| 47.5° | 291.8 |
| 50° | 255.7 |
| 52.5° | 219.7 |
| 55° | 183.6 |
| 57.5° | 150.6 |
| 60° | 119.2 |
| 62.5° | 91.0 |
| 65° | 64.3 |
| 67.5° | 42.3 |
| 70° | 25.1 |
| 72.5° | 11.0 |
| 75° | 3.2 |
| 77.5° | 1.5 |
| 80° | 1.5 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°







(END OF REPORT)