

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: P496022

Luminaire Tested: **LDA2B109030R45D010 2LBDL1WH**

Issue Date: 3/9/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P496022
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-037-42)
Test Lab: INNOVATION CENTER
Issue Date: 3/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LDA2B109030R45D010 2LBDL1WH
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

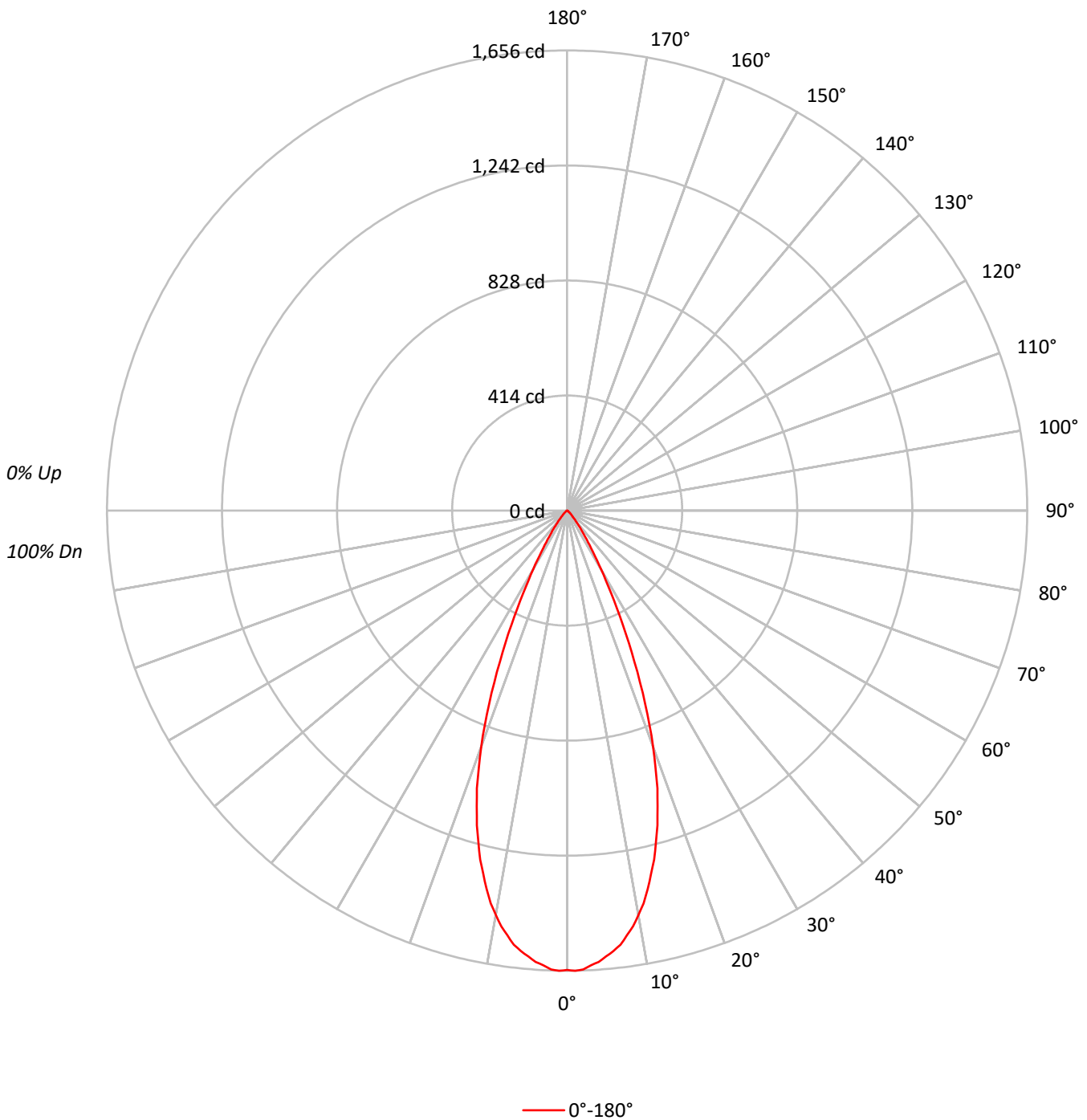
Lumens per Lamp: N/A
Luminaire Lumens: 823.0 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.65
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 10
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

TEST NUMBER: P496022

CATALOG NUMBER: LDA2B109030R45D010 2LBDL1WH

Luminous Intensity Polar Plot





TEST NUMBER: P496022

CATALOG NUMBER: LDA2B109030R45D010 2LBDL1WH

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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | | 106 | 106 | 106 | | 102 | 102 | 102 | 100 |
| 1 | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 | | 102 | 101 | 100 | | 99 | 98 | 97 | 95 |
| 2 | 110 | 105 | 102 | 99 | 108 | 104 | 101 | 98 | 101 | 98 | 96 | | 98 | 96 | 94 | | 95 | 93 | 92 | 90 |
| 3 | 105 | 100 | 96 | 92 | 103 | 98 | 95 | 91 | 96 | 93 | 90 | | 94 | 91 | 89 | | 91 | 89 | 87 | 86 |
| 4 | 101 | 95 | 90 | 86 | 99 | 94 | 89 | 86 | 91 | 88 | 85 | | 90 | 86 | 84 | | 88 | 85 | 83 | 82 |
| 5 | 97 | 90 | 85 | 81 | 95 | 89 | 84 | 81 | 87 | 83 | 80 | | 86 | 82 | 80 | | 84 | 81 | 79 | 78 |
| 6 | 93 | 86 | 81 | 77 | 92 | 85 | 80 | 77 | 84 | 79 | 76 | | 82 | 79 | 76 | | 81 | 78 | 75 | 74 |
| 7 | 90 | 82 | 77 | 73 | 88 | 81 | 76 | 73 | 80 | 76 | 73 | | 79 | 75 | 72 | | 78 | 74 | 72 | 71 |
| 8 | 86 | 78 | 73 | 70 | 85 | 78 | 73 | 70 | 77 | 72 | 69 | | 76 | 72 | 69 | | 75 | 71 | 69 | 68 |
| 9 | 83 | 75 | 70 | 66 | 82 | 74 | 70 | 66 | 74 | 69 | 66 | | 73 | 69 | 66 | | 72 | 68 | 66 | 65 |
| 10 | 80 | 72 | 67 | 64 | 79 | 71 | 67 | 64 | 71 | 66 | 63 | | 70 | 66 | 63 | | 69 | 66 | 63 | 62 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 815675 |
| 5° | 797693 |
| 10° | 740137 |
| 15° | 631153 |
| 20° | 475200 |
| 25° | 286499 |
| 30° | 138149 |
| 35° | 62637 |
| 40° | 28789 |
| 45° | 14861 |
| 50° | 7829 |
| 55° | 2925 |
| 60° | 888 |
| 65° | 467 |
| 70° | 577 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |



TEST NUMBER: P496022

CATALOG NUMBER: LDA2B109030R45D010 2LBDL1WH

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 149.8 | 18.2 |
| 10°-20° | 337.5 | 41.0 |
| 20°-30° | 241.1 | 29.3 |
| 30°-40° | 72.3 | 8.8 |
| 40°-50° | 17.9 | 2.2 |
| 50°-60° | 3.7 | 0.5 |
| 60°-70° | 0.6 | 0.1 |
| 70°-80° | 0.2 | 0.0 |
| 80°-90° | 0.0 | 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° | 728.3 | 88.5 |
| 0°-40° | 800.6 | 97.3 |
| 0°-60° | 822.3 | 99.9 |
| 0°-90° | 823.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 823.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1653 | |
| 5° | 1611 | 150 |
| 15° | 1236 | 337 |
| 25° | 526 | 241 |
| 35° | 104 | 72 |
| 45° | 21 | 18 |
| 55° | 3 | 4 |
| 65° | 0 | 1 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



TEST NUMBER: P496022

CATALOG NUMBER: LDA2B109030R45D010 2LBDL1WH

CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 1653.3 |
| 1° | 1656.3 |
| 2° | 1652.5 |
| 3° | 1638.4 |
| 4° | 1628.2 |
| 5° | 1610.7 |
| 6° | 1593.3 |
| 7° | 1574.5 |
| 8° | 1543.8 |
| 9° | 1514.9 |
| 10° | 1477.4 |
| 11° | 1439.9 |
| 12° | 1392.6 |
| 13° | 1341.9 |
| 14° | 1294.6 |
| 15° | 1235.7 |
| 16° | 1178.2 |
| 17° | 1113.0 |
| 18° | 1051.2 |
| 19° | 975.4 |
| 20° | 905.1 |
| 21° | 827.1 |
| 22.5° | 710.8 |
| 23° | 671.6 |
| 24° | 595.3 |
| 25° | 526.3 |
| 26° | 457.2 |
| 27° | 394.2 |
| 28° | 335.4 |
| 29° | 287.2 |
| 30° | 242.5 |
| 32.5° | 159.4 |
| 35° | 104.0 |
| 37.5° | 68.2 |
| 40° | 44.7 |
| 42.5° | 30.3 |
| 45° | 21.3 |
| 47.5° | 15.3 |
| 50° | 10.2 |
| 52.5° | 6.4 |
| 55° | 3.4 |
| 57.5° | 1.7 |
| 60° | 0.9 |
| 62.5° | 0.9 |
| 65° | 0.4 |



TEST NUMBER: P496022

CATALOG NUMBER: LDA2B109030R45D010 2LBDL1WH

CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|-----|
| 67.5° | 0.4 |
| 70° | 0.4 |
| 72.5° | 0.4 |
| 75° | 0.0 |
| 77.5° | 0.0 |
| 80° | 0.0 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)