

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P278150

Luminaire Tested: **LDA2B159035D010 EU2B15SP159035 2LBAD1WMH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P278150
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1811-033-1)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B159035D010 EU2B15SP159035 2LBAD1WMH
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in
ADJ spun Refl, Self-Flanged, WMH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1205.5 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Spacing Criteria (0/90/45): 0.28 / 0.28 / 0.28
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

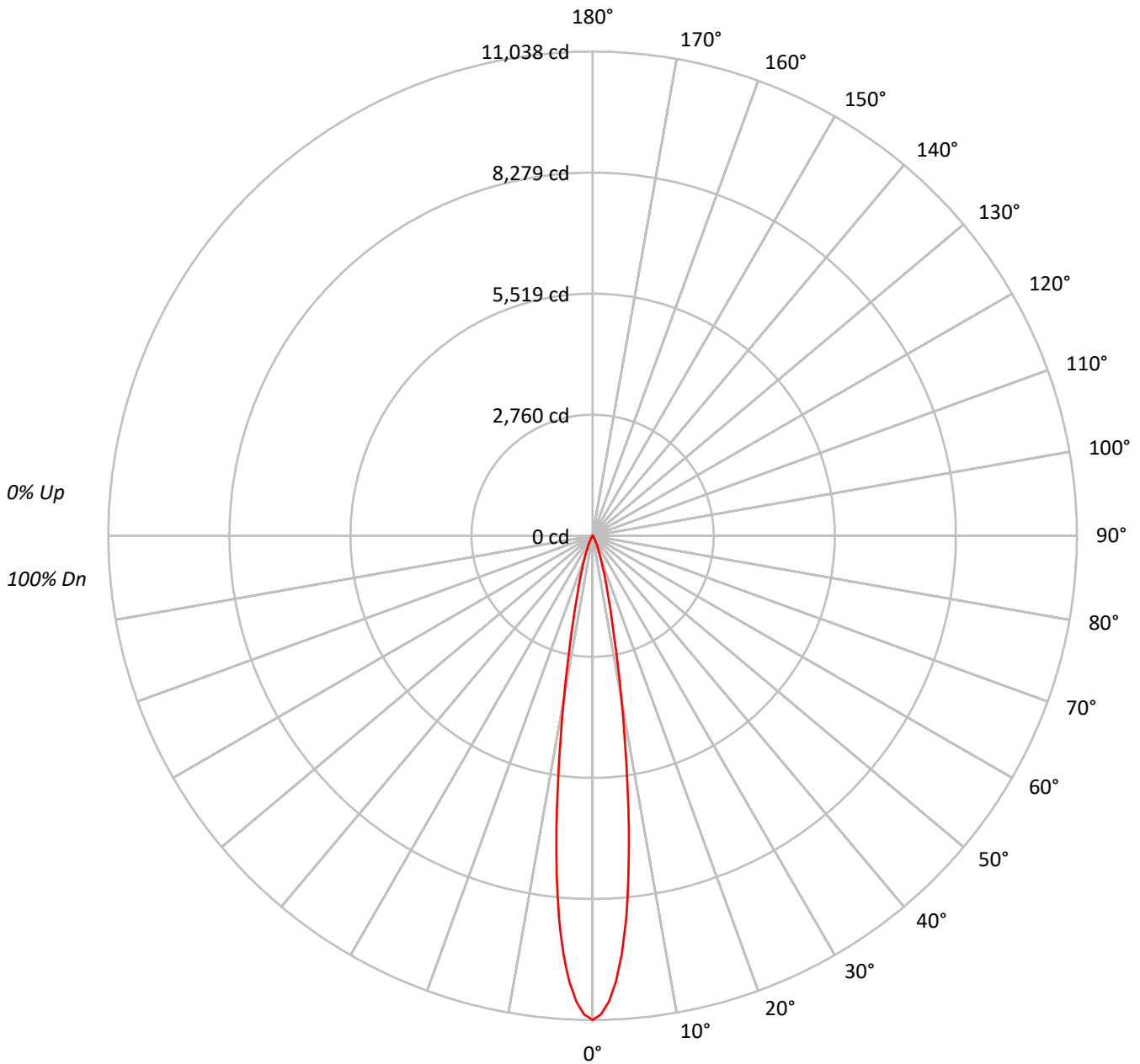
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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 | 116 | 114 | 112 | 110 | 113 | 112 | 110 | 109 | 108 | 106 | 105 | 104 | 103 | 102 | 101 | 100 | 99 | 98 | 99 | 98 | 98 | | | | | | | | | | | | | | | | |
| 2 | 112 | 109 | 107 | 104 | 110 | 108 | 105 | 103 | 105 | 103 | 101 | 102 | 100 | 99 | 99 | 98 | 97 | 99 | 98 | 97 | 96 | | | | | | | | | | | | | | | | |
| 3 | 109 | 105 | 102 | 100 | 108 | 104 | 101 | 99 | 102 | 99 | 98 | 100 | 98 | 96 | 97 | 96 | 95 | 97 | 96 | 95 | 93 | | | | | | | | | | | | | | | | |
| 4 | 107 | 102 | 99 | 96 | 105 | 101 | 98 | 96 | 99 | 97 | 95 | 98 | 95 | 94 | 96 | 94 | 93 | 96 | 94 | 93 | 92 | | | | | | | | | | | | | | | | |
| 5 | 104 | 99 | 96 | 93 | 103 | 99 | 95 | 93 | 97 | 94 | 92 | 96 | 93 | 91 | 94 | 92 | 91 | 94 | 92 | 91 | 90 | | | | | | | | | | | | | | | | |
| 6 | 102 | 97 | 93 | 91 | 101 | 96 | 93 | 91 | 95 | 92 | 90 | 94 | 91 | 89 | 93 | 91 | 89 | 93 | 91 | 89 | 88 | | | | | | | | | | | | | | | | |
| 7 | 100 | 95 | 91 | 89 | 99 | 94 | 91 | 88 | 93 | 90 | 88 | 92 | 90 | 88 | 91 | 89 | 87 | 91 | 89 | 87 | 86 | | | | | | | | | | | | | | | | |
| 8 | 98 | 93 | 89 | 87 | 97 | 92 | 89 | 87 | 91 | 88 | 86 | 90 | 88 | 86 | 90 | 87 | 86 | 90 | 87 | 86 | 85 | | | | | | | | | | | | | | | | |
| 9 | 96 | 91 | 87 | 85 | 95 | 90 | 87 | 85 | 90 | 87 | 85 | 89 | 86 | 84 | 88 | 86 | 84 | 88 | 86 | 84 | 83 | | | | | | | | | | | | | | | | |
| 10 | 94 | 89 | 86 | 83 | 94 | 89 | 85 | 83 | 88 | 85 | 83 | 87 | 85 | 83 | 87 | 85 | 83 | 87 | 85 | 83 | 82 | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|---------|
| | 0° |
| 0° | 5445974 |
| 5° | 4341874 |
| 10° | 1885010 |
| 15° | 651277 |
| 20° | 267028 |
| 25° | 120577 |
| 30° | 48537 |
| 35° | 22586 |
| 40° | 12301 |
| 45° | 4605 |
| 50° | 2763 |
| 55° | 2064 |
| 60° | 1184 |
| 65° | 700 |
| 70° | 865 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 662.6 | 55.0 |
| 10°-20° | 397.9 | 33.0 |
| 20°-30° | 109.5 | 9.1 |
| 30°-40° | 26.1 | 2.2 |
| 40°-50° | 6.4 | 0.5 |
| 50°-60° | 2.1 | 0.2 |
| 60°-70° | 0.8 | 0.1 |
| 70°-80° | 0.1 | 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° | 1170.0 | 97.1 |
| 0°-40° | 1196.1 | 99.2 |
| 0°-60° | 1204.6 | 99.9 |
| 0°-90° | 1205.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1205.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-------|------|
| 0° | 11038 | |
| 5° | 8767 | 663 |
| 15° | 1275 | 398 |
| 25° | 222 | 110 |
| 35° | 38 | 26 |
| 45° | 7 | 6 |
| 55° | 2 | 2 |
| 65° | 1 | 1 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|---------|
| 0° | 11038.5 |
| 1° | 10916.4 |
| 2° | 10624.0 |
| 3° | 10178.0 |
| 4° | 9548.5 |
| 5° | 8767.1 |
| 6° | 7813.0 |
| 7° | 6767.8 |
| 8° | 5669.6 |
| 9° | 4659.6 |
| 10° | 3762.7 |
| 11° | 3003.4 |
| 12° | 2390.5 |
| 13° | 1927.8 |
| 14° | 1559.7 |
| 15° | 1275.1 |
| 17.5° | 791.5 |
| 20° | 508.6 |
| 22.5° | 333.5 |
| 25° | 221.5 |
| 27.5° | 142.3 |
| 30° | 85.2 |
| 32.5° | 53.6 |
| 35° | 37.5 |
| 37.5° | 27.4 |
| 40° | 19.1 |
| 42.5° | 11.3 |
| 45° | 6.6 |
| 47.5° | 4.8 |
| 50° | 3.6 |
| 52.5° | 3.0 |
| 55° | 2.4 |
| 57.5° | 1.8 |
| 60° | 1.2 |
| 62.5° | 1.2 |
| 65° | 0.6 |
| 67.5° | 0.6 |
| 70° | 0.6 |
| 72.5° | 0.0 |
| 75° | 0.0 |
| 77.5° | 0.0 |
| 80° | 0.0 |
| 82.5° | 0.0 |



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







| | | |
|-------|--|-----|
| 85° | | 0.0 |
| 87.5° | | 0.0 |



(END OF REPORT)