

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: P136038

Luminaire Tested: **LD6A15D010TE ERW6A15935 6LW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P136038
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23358)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6A15D010TE ERW6A15935 6LW1LI
Description: PORTFOLIO 6 INCH 60 DEGREE CUTOFF RECESSED DOWNLIGHT
WIDE DISTRIBUTION WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 3500K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1508.6 lumens
Efficiency: N/A
Efficacy: 66.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

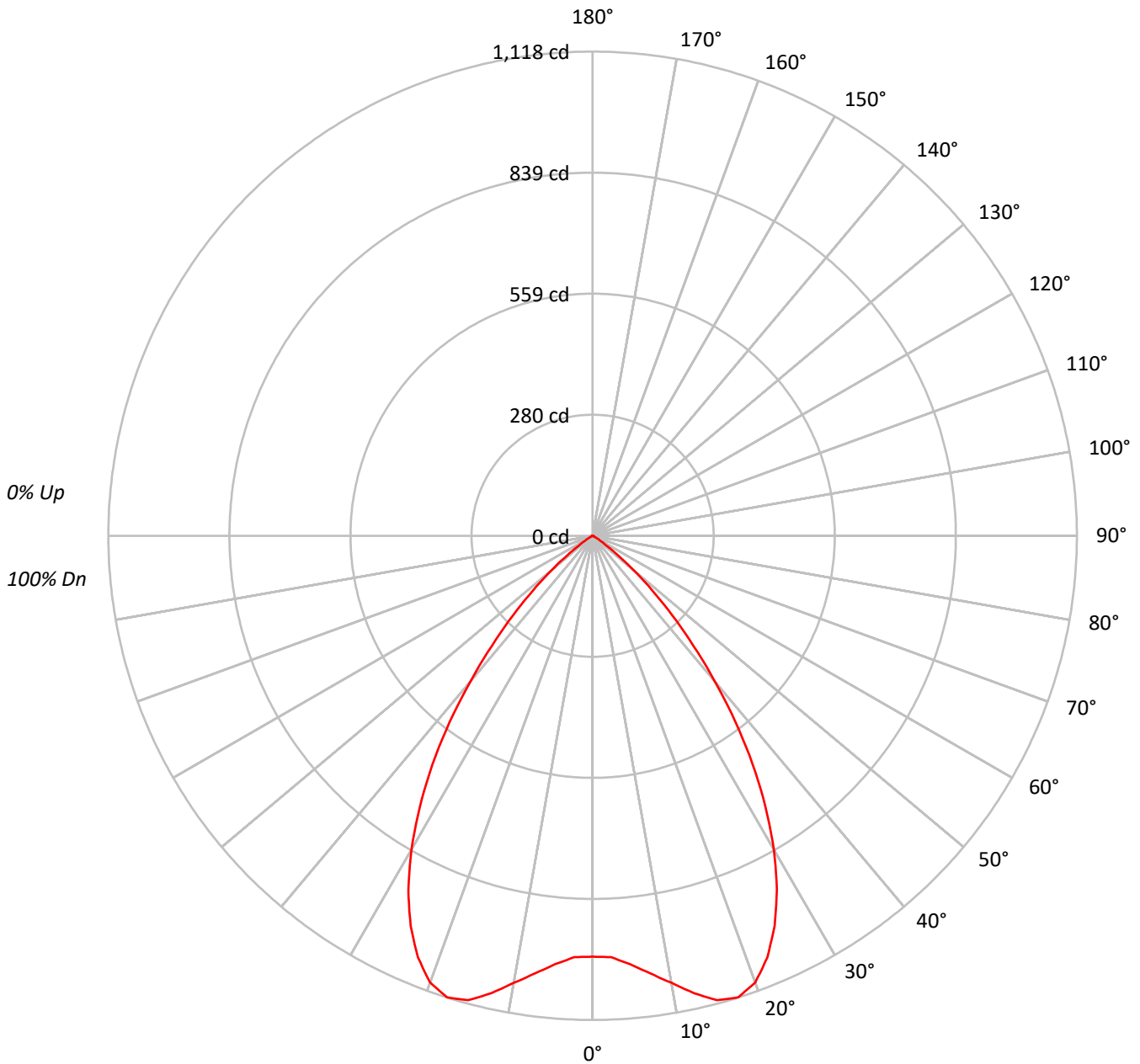
Input Watts (W): 22.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 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 | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 98 | 97 | 97 | 95 | 94 | 92 | 92 | 92 | 92 |
| 2 | 107 | 101 | 97 | 93 | 104 | 99 | 95 | 92 | 96 | 93 | 90 | 93 | 90 | 88 | 90 | 88 | 86 | 84 | 84 | 84 | 84 |
| 3 | 100 | 93 | 88 | 83 | 98 | 92 | 87 | 83 | 89 | 85 | 81 | 87 | 83 | 80 | 84 | 81 | 79 | 77 | 77 | 77 | 77 |
| 4 | 94 | 86 | 80 | 75 | 93 | 85 | 79 | 75 | 83 | 78 | 74 | 81 | 76 | 73 | 79 | 75 | 72 | 70 | 70 | 70 | 70 |
| 5 | 89 | 80 | 73 | 68 | 87 | 79 | 73 | 68 | 77 | 71 | 67 | 75 | 70 | 67 | 73 | 69 | 66 | 65 | 65 | 65 | 65 |
| 6 | 84 | 74 | 67 | 62 | 82 | 73 | 67 | 62 | 71 | 66 | 62 | 70 | 65 | 61 | 69 | 64 | 61 | 59 | 59 | 59 | 59 |
| 7 | 79 | 68 | 62 | 57 | 77 | 68 | 61 | 57 | 66 | 61 | 57 | 65 | 60 | 56 | 64 | 59 | 56 | 54 | 54 | 54 | 54 |
| 8 | 74 | 64 | 57 | 53 | 73 | 63 | 57 | 52 | 62 | 56 | 52 | 61 | 56 | 52 | 60 | 55 | 52 | 50 | 50 | 50 | 50 |
| 9 | 70 | 60 | 53 | 49 | 69 | 59 | 53 | 48 | 58 | 52 | 48 | 57 | 52 | 48 | 56 | 51 | 48 | 46 | 46 | 46 | 46 |
| 10 | 66 | 56 | 49 | 45 | 65 | 55 | 49 | 45 | 54 | 49 | 45 | 54 | 48 | 45 | 53 | 48 | 44 | 43 | 43 | 43 | 43 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 63394 |
| 5° | 65012 |
| 10° | 69447 |
| 15° | 74985 |
| 20° | 76204 |
| 25° | 71532 |
| 30° | 63001 |
| 35° | 51307 |
| 40° | 37268 |
| 45° | 23915 |
| 50° | 12565 |
| 55° | 4300 |
| 60° | 1240 |
| 65° | 324 |
| 70° | 191 |
| 75° | 252 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 96.6 | 6.4 |
| 10°-20° | 311.4 | 20.6 |
| 20°-30° | 451.8 | 30.0 |
| 30°-40° | 398.0 | 26.4 |
| 40°-50° | 203.8 | 13.5 |
| 50°-60° | 42.9 | 2.8 |
| 60°-70° | 3.3 | 0.2 |
| 70°-80° | 0.7 | 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° | 859.8 | 57.0 |
| 0°-40° | 1257.8 | 83.4 |
| 0°-60° | 1504.6 | 99.7 |
| 0°-90° | 1508.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1508.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 972 | |
| 5° | 993 | 97 |
| 15° | 1110 | 311 |
| 25° | 994 | 452 |
| 35° | 644 | 398 |
| 45° | 259 | 204 |
| 55° | 38 | 43 |
| 65° | 2 | 3 |
| 75° | 1 | 1 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 971.7 |
| 2.5° | 973.8 |
| 5° | 992.7 |
| 7.5° | 1018.9 |
| 10° | 1048.3 |
| 12.5° | 1081.8 |
| 15° | 1110.2 |
| 17.5° | 1117.5 |
| 20° | 1097.6 |
| 22.5° | 1053.5 |
| 25° | 993.7 |
| 27.5° | 921.3 |
| 30° | 836.3 |
| 32.5° | 742.9 |
| 35° | 644.2 |
| 37.5° | 541.5 |
| 40° | 437.6 |
| 42.5° | 344.2 |
| 45° | 259.2 |
| 47.5° | 185.8 |
| 50° | 123.8 |
| 52.5° | 72.4 |
| 55° | 37.8 |
| 57.5° | 18.9 |
| 60° | 9.5 |
| 62.5° | 4.2 |
| 65° | 2.1 |
| 67.5° | 2.1 |
| 70° | 1.0 |
| 72.5° | 1.0 |
| 75° | 1.0 |
| 77.5° | 0.0 |
| 80° | 0.0 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |



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— 0°-180°







(END OF REPORT)