

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: P135405

Luminaire Tested: **LD6A10D010TE ERM6A10930 6LM1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P135405
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23371)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6A10D010TE ERM6A10930 6LM1H
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
MEDIUM DISTRIBUTION WITH SEMI-SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 3000K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 981.3 lumens
Efficiency: N/A
Efficacy: 70.1 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.9
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

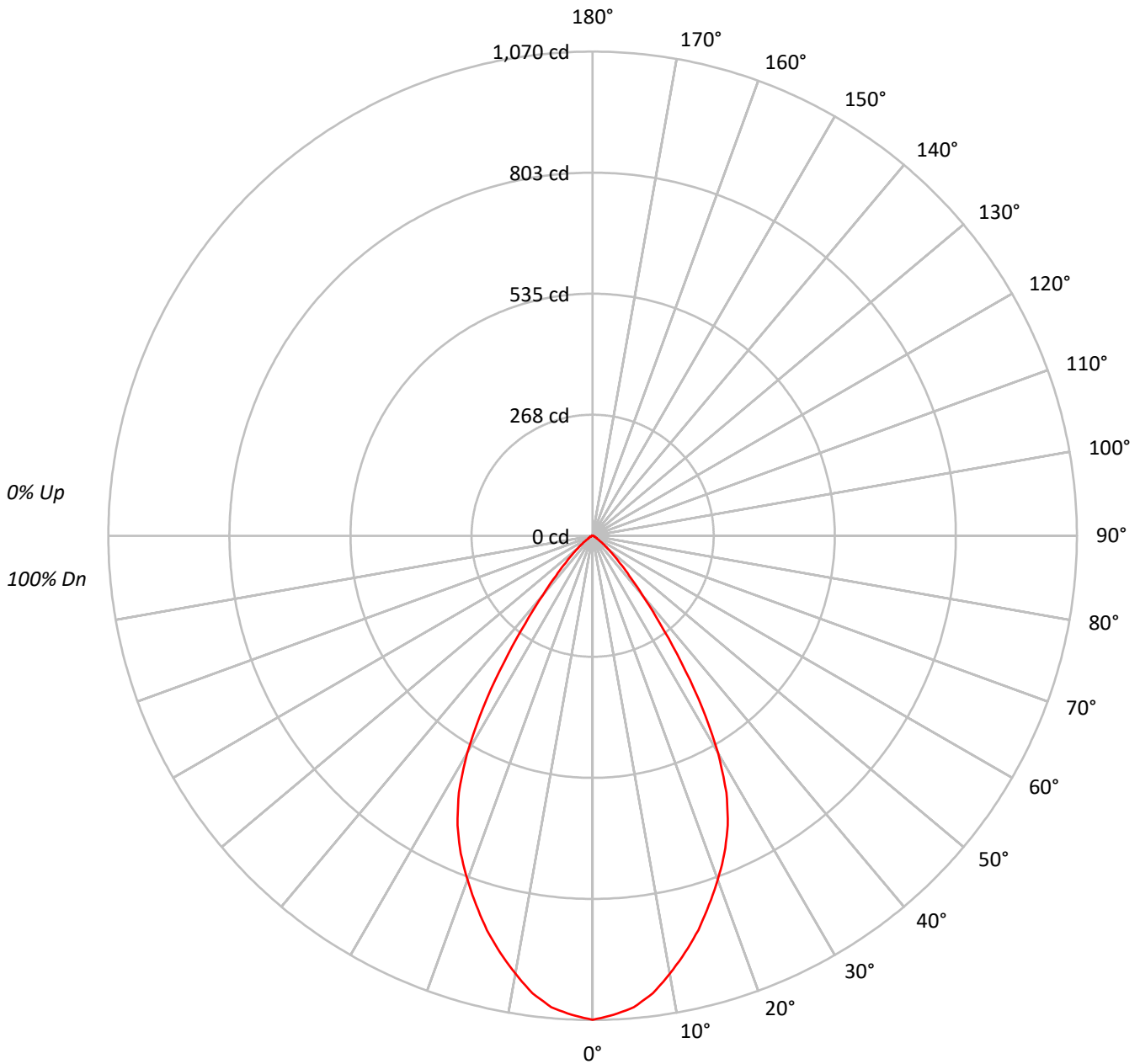
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | | | |
| 1 | 113 | 111 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 102 | 101 | 101 | 99 | 98 | 97 | 96 | 95 | 93 | | | |
| 2 | 108 | 103 | 98 | 95 | 105 | 101 | 97 | 94 | 98 | 94 | 92 | 95 | 92 | 90 | 92 | 90 | 88 | 86 | | | |
| 3 | 102 | 95 | 90 | 86 | 100 | 94 | 89 | 85 | 91 | 87 | 84 | 89 | 86 | 83 | 87 | 84 | 81 | 80 | | | |
| 4 | 97 | 89 | 83 | 79 | 95 | 88 | 82 | 78 | 85 | 81 | 77 | 83 | 80 | 76 | 82 | 78 | 76 | 74 | | | |
| 5 | 91 | 83 | 77 | 73 | 90 | 82 | 76 | 72 | 80 | 75 | 72 | 78 | 74 | 71 | 77 | 73 | 70 | 69 | | | |
| 6 | 87 | 78 | 71 | 67 | 85 | 77 | 71 | 67 | 75 | 70 | 66 | 74 | 69 | 66 | 73 | 69 | 65 | 64 | | | |
| 7 | 82 | 73 | 67 | 62 | 81 | 72 | 66 | 62 | 71 | 66 | 62 | 70 | 65 | 61 | 68 | 64 | 61 | 60 | | | |
| 8 | 78 | 68 | 62 | 58 | 77 | 68 | 62 | 58 | 67 | 61 | 58 | 66 | 61 | 57 | 65 | 60 | 57 | 56 | | | |
| 9 | 74 | 64 | 58 | 54 | 73 | 64 | 58 | 54 | 63 | 58 | 54 | 62 | 57 | 54 | 61 | 57 | 54 | 52 | | | |
| 10 | 71 | 61 | 55 | 51 | 70 | 60 | 55 | 51 | 60 | 54 | 51 | 59 | 54 | 51 | 58 | 54 | 50 | 49 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 69788 |
| 5° | 68489 |
| 10° | 65101 |
| 15° | 60936 |
| 20° | 56139 |
| 25° | 50843 |
| 30° | 41727 |
| 35° | 27135 |
| 40° | 14546 |
| 45° | 7833 |
| 50° | 4303 |
| 55° | 2104 |
| 60° | 1279 |
| 65° | 834 |
| 70° | 629 |
| 75° | 277 |
| 80° | 413 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 97.8 | 10.0 |
| 10°-20° | 252.4 | 25.7 |
| 20°-30° | 319.3 | 32.5 |
| 30°-40° | 214.6 | 21.9 |
| 40°-50° | 70.5 | 7.2 |
| 50°-60° | 19.0 | 1.9 |
| 60°-70° | 5.9 | 0.6 |
| 70°-80° | 1.7 | 0.2 |
| 80°-90° | 0.1 | 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° | 669.4 | 68.2 |
| 0°-40° | 884.1 | 90.1 |
| 0°-60° | 973.6 | 99.2 |
| 0°-90° | 981.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 981.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1070 | |
| 5° | 1046 | 98 |
| 15° | 902 | 252 |
| 25° | 706 | 319 |
| 35° | 341 | 215 |
| 45° | 85 | 71 |
| 55° | 18 | 19 |
| 65° | 5 | 6 |
| 75° | 1 | 2 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 1069.7 |
| 2.5° | 1059.9 |
| 5° | 1045.8 |
| 7.5° | 1019.7 |
| 10° | 982.7 |
| 12.5° | 943.5 |
| 15° | 902.2 |
| 17.5° | 855.4 |
| 20° | 808.6 |
| 22.5° | 760.7 |
| 25° | 706.3 |
| 27.5° | 639.9 |
| 30° | 553.9 |
| 32.5° | 450.6 |
| 35° | 340.7 |
| 37.5° | 243.7 |
| 40° | 170.8 |
| 42.5° | 119.7 |
| 45° | 84.9 |
| 47.5° | 59.9 |
| 50° | 42.4 |
| 52.5° | 28.3 |
| 55° | 18.5 |
| 57.5° | 13.0 |
| 60° | 9.8 |
| 62.5° | 7.6 |
| 65° | 5.4 |
| 67.5° | 4.3 |
| 70° | 3.3 |
| 72.5° | 2.2 |
| 75° | 1.1 |
| 77.5° | 1.1 |
| 80° | 1.1 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |



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— 0°-180°







(END OF REPORT)