

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: P202687

Luminaire Tested: **LD6B70D010TE EU6B60709024 6LBMWMH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P202687
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35319)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B70D010TE EU6B60709024 6LBMWMH1
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
MEDIUM DISTRIBUTION WITH WARM HAZE TRIM
SINGLE DRIVER D010TE
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4018.0 lumens
Efficiency: N/A
Efficacy: 50.6 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.89
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

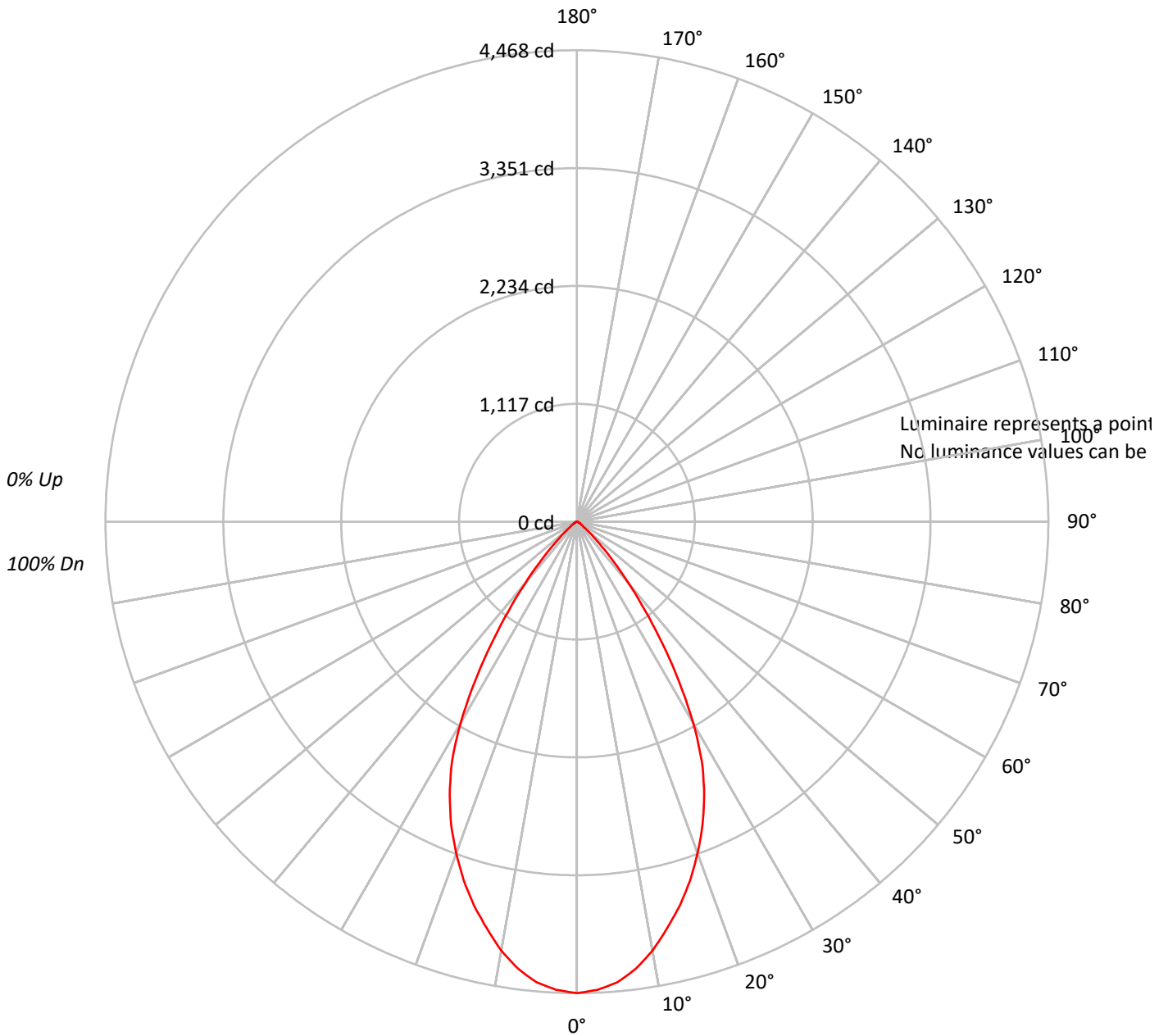
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 |
| 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 | 103 | 101 | 101 | 99 | 98 | 97 | 96 | 95 | 93 | | |
| 2 | 108 | 103 | 99 | 95 | 105 | 101 | 97 | 94 | 98 | 95 | 92 | 95 | 92 | 90 | 92 | 90 | 88 | 86 | | |
| 3 | 102 | 95 | 90 | 86 | 100 | 94 | 89 | 86 | 91 | 88 | 84 | 89 | 86 | 83 | 87 | 84 | 82 | 80 | | |
| 4 | 97 | 89 | 83 | 79 | 95 | 88 | 83 | 79 | 86 | 81 | 78 | 84 | 80 | 77 | 82 | 79 | 76 | 74 | | |
| 5 | 92 | 83 | 77 | 73 | 90 | 82 | 77 | 73 | 80 | 76 | 72 | 79 | 75 | 71 | 77 | 74 | 71 | 69 | | |
| 6 | 87 | 78 | 72 | 67 | 85 | 77 | 71 | 67 | 76 | 71 | 67 | 74 | 70 | 66 | 73 | 69 | 66 | 64 | | |
| 7 | 83 | 73 | 67 | 63 | 81 | 72 | 67 | 63 | 71 | 66 | 62 | 70 | 65 | 62 | 69 | 65 | 61 | 60 | | |
| 8 | 78 | 69 | 63 | 58 | 77 | 68 | 62 | 58 | 67 | 62 | 58 | 66 | 61 | 58 | 65 | 61 | 58 | 56 | | |
| 9 | 75 | 65 | 59 | 55 | 73 | 64 | 59 | 55 | 63 | 58 | 54 | 62 | 58 | 54 | 62 | 57 | 54 | 53 | | |
| 10 | 71 | 61 | 55 | 51 | 70 | 61 | 55 | 51 | 60 | 55 | 51 | 59 | 54 | 51 | 58 | 54 | 51 | 50 | | |

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 410.1 | 10.2 |
| 10°-20° | 1052.8 | 26.2 |
| 20°-30° | 1293.1 | 32.2 |
| 30°-40° | 886.7 | 22.1 |
| 40°-50° | 285.0 | 7.1 |
| 50°-60° | 57.8 | 1.4 |
| 60°-70° | 22.7 | 0.6 |
| 70°-80° | 8.5 | 0.2 |
| 80°-90° | 1.4 | 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° | 2756.0 | 68.6 |
| 0°-40° | 3642.6 | 90.7 |
| 0°-60° | 3985.4 | 99.2 |
| 0°-90° | 4018.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4018.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 4468 | |
| 5° | 4383 | 410 |
| 15° | 3766 | 1053 |
| 25° | 2853 | 1293 |
| 35° | 1414 | 887 |
| 45° | 337 | 285 |
| 55° | 58 | 58 |
| 65° | 24 | 23 |
| 75° | 7 | 9 |
| 85° | 0 | 1 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 4468.4 |
| 2.5° | 4441.1 |
| 5° | 4383.1 |
| 7.5° | 4274.1 |
| 10° | 4127.5 |
| 12.5° | 3946.9 |
| 15° | 3766.2 |
| 17.5° | 3565.1 |
| 20° | 3343.6 |
| 22.5° | 3111.8 |
| 25° | 2852.8 |
| 27.5° | 2566.5 |
| 30° | 2205.2 |
| 32.5° | 1806.4 |
| 35° | 1414.5 |
| 37.5° | 1056.6 |
| 40° | 760.1 |
| 42.5° | 518.1 |
| 45° | 337.4 |
| 47.5° | 207.9 |
| 50° | 126.1 |
| 52.5° | 78.4 |
| 55° | 57.9 |
| 57.5° | 44.3 |
| 60° | 34.1 |
| 62.5° | 27.3 |
| 65° | 23.9 |
| 67.5° | 17.0 |
| 70° | 13.6 |
| 72.5° | 10.2 |
| 75° | 6.8 |
| 77.5° | 6.8 |
| 80° | 3.4 |
| 82.5° | 3.4 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |



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— 0°-180°







(END OF REPORT)