

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: P202991

Luminaire Tested: **LD6B70D010TE EU6B60708027 6LBWGPH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P202991
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 EU6B60708027 6LBWGPH1
Description: PORTFOLIO 6 INCH 60 DEGREE CUTOFF RECESSED DOWNLIGHT
WIDE DISTRIBUTIONWITH GRAPHITE HAZE TRIM
SINGLE DRIVER D010TE
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4513.1 lumens
Efficiency: N/A
Efficacy: 56.8 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.11
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

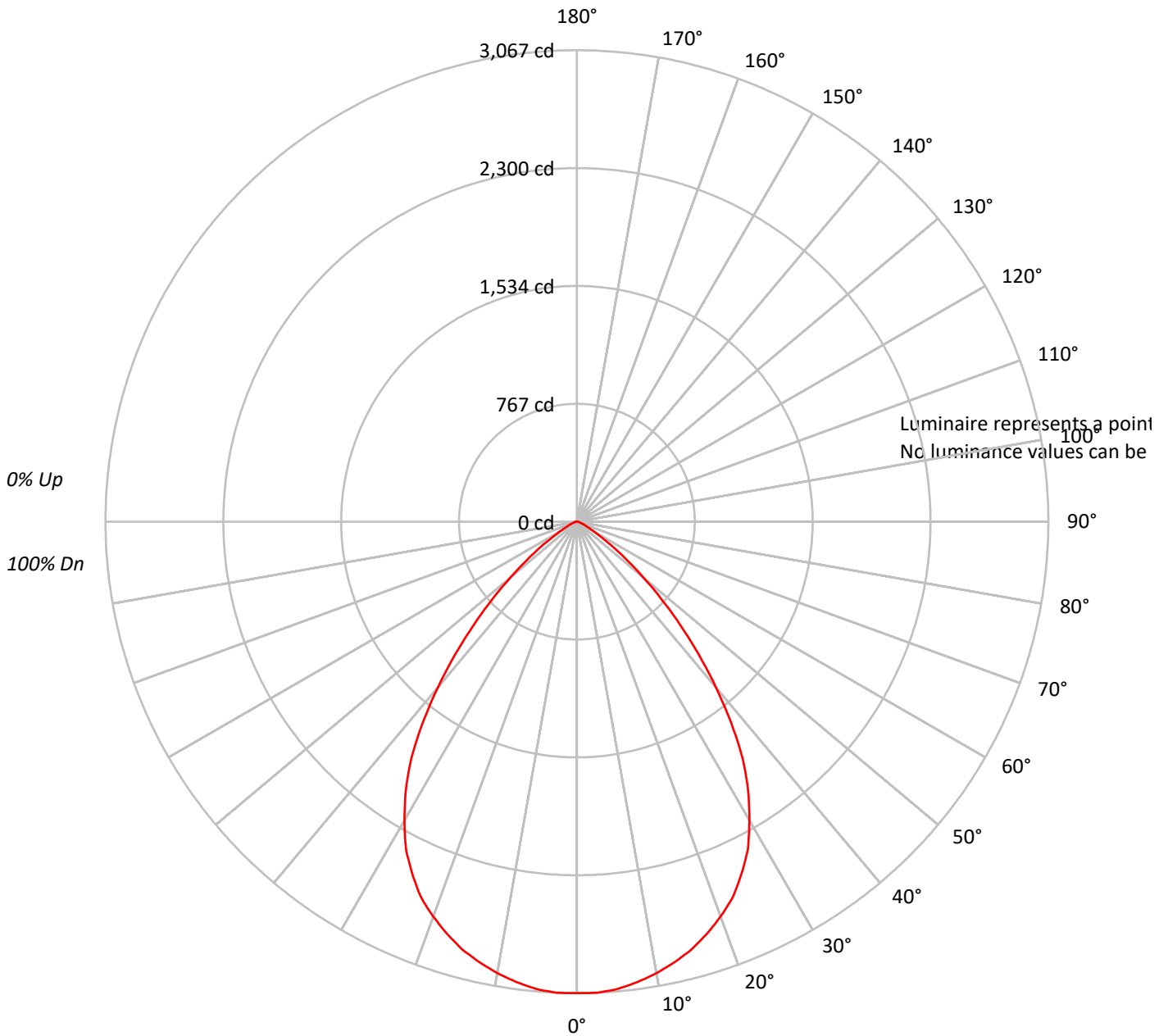
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | |
| 1 | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 94 | 93 | 91 | | | |
| 2 | 106 | 100 | 95 | 91 | 103 | 98 | 94 | 90 | 95 | 91 | 88 | 92 | 89 | 86 | 89 | 86 | 84 | 82 | | | |
| 3 | 99 | 91 | 85 | 81 | 97 | 90 | 84 | 80 | 87 | 82 | 79 | 85 | 81 | 77 | 82 | 79 | 76 | 74 | | | |
| 4 | 93 | 84 | 77 | 72 | 91 | 82 | 76 | 72 | 80 | 75 | 71 | 78 | 74 | 70 | 76 | 72 | 69 | 67 | | | |
| 5 | 87 | 77 | 70 | 65 | 85 | 76 | 69 | 65 | 74 | 68 | 64 | 72 | 67 | 63 | 71 | 66 | 63 | 61 | | | |
| 6 | 81 | 71 | 64 | 59 | 80 | 70 | 63 | 59 | 68 | 62 | 58 | 67 | 62 | 58 | 65 | 61 | 57 | 56 | | | |
| 7 | 76 | 65 | 58 | 53 | 75 | 65 | 58 | 53 | 63 | 57 | 53 | 62 | 57 | 53 | 61 | 56 | 52 | 51 | | | |
| 8 | 72 | 61 | 54 | 49 | 70 | 60 | 53 | 49 | 59 | 53 | 49 | 58 | 52 | 48 | 57 | 52 | 48 | 47 | | | |
| 9 | 68 | 57 | 50 | 45 | 66 | 56 | 49 | 45 | 55 | 49 | 45 | 54 | 48 | 45 | 53 | 48 | 44 | 43 | | | |
| 10 | 64 | 53 | 46 | 42 | 63 | 52 | 46 | 42 | 51 | 45 | 41 | 51 | 45 | 41 | 50 | 45 | 41 | 40 | | | |

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 289.0 | 6.4 |
| 10°-20° | 810.3 | 18.0 |
| 20°-30° | 1159.3 | 25.7 |
| 30°-40° | 1155.6 | 25.6 |
| 40°-50° | 736.0 | 16.3 |
| 50°-60° | 271.4 | 6.0 |
| 60°-70° | 67.9 | 1.5 |
| 70°-80° | 20.4 | 0.5 |
| 80°-90° | 3.2 | 0.1 |
| 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° | 2258.7 | 50.0 |
| 0°-40° | 3414.3 | 75.7 |
| 0°-60° | 4421.7 | 98.0 |
| 0°-90° | 4513.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4513.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 3067 | |
| 5° | 3052 | 289 |
| 15° | 2881 | 810 |
| 25° | 2532 | 1159 |
| 35° | 1879 | 1156 |
| 45° | 947 | 736 |
| 55° | 287 | 271 |
| 65° | 62 | 68 |
| 75° | 16 | 20 |
| 85° | 0 | 3 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 3067.4 |
| 2.5° | 3067.4 |
| 5° | 3051.8 |
| 7.5° | 3020.8 |
| 10° | 2982.0 |
| 12.5° | 2935.4 |
| 15° | 2881.0 |
| 17.5° | 2811.1 |
| 20° | 2733.5 |
| 22.5° | 2648.0 |
| 25° | 2531.6 |
| 27.5° | 2407.3 |
| 30° | 2244.2 |
| 32.5° | 2073.4 |
| 35° | 1879.3 |
| 37.5° | 1646.3 |
| 40° | 1405.6 |
| 42.5° | 1172.6 |
| 45° | 947.4 |
| 47.5° | 745.5 |
| 50° | 559.1 |
| 52.5° | 411.6 |
| 55° | 287.3 |
| 57.5° | 186.4 |
| 60° | 124.2 |
| 62.5° | 85.4 |
| 65° | 62.1 |
| 67.5° | 46.6 |
| 70° | 38.8 |
| 72.5° | 23.3 |
| 75° | 15.5 |
| 77.5° | 15.5 |
| 80° | 7.8 |
| 82.5° | 7.8 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |



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— 0°-180°







(END OF REPORT)