

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: P204084

Luminaire Tested: **LSR6B30D010BZ EC6B30509730 6LBNMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P204084
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: LSR6B30D010BZ EC6B30509730 6LBNMW1
Description: PORTFOLIO 6IN CYLINDER
NARROW DISTRIBUTION WITH MATTE WHITE TRIM
WATTAGE D010TR-27.4 W DE010-27.95 W D5LT-27.65 W DMX-27.73 W DL2-29.56 W
DL3-29.67 W DLE-29.73 W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1592.2 lumens
Efficiency: N/A
Efficacy: 56.9 lumens/watt
Spacing Criteria (0/90/45): 0.99 / 0.99 / 0.97
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

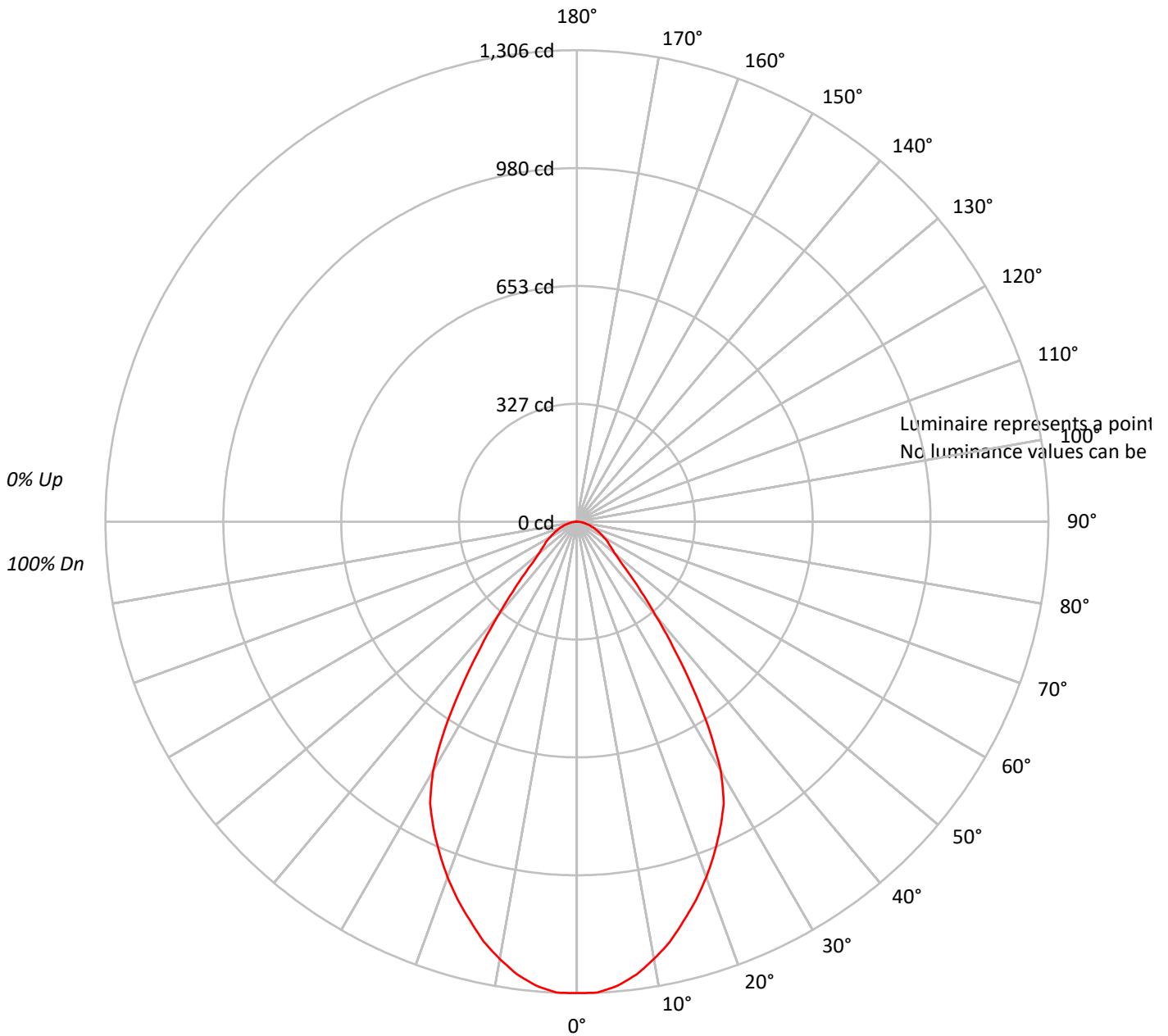
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 108 | 105 | 103 | 109 | 106 | 103 | 101 | 102 | 100 | 98 | 98 | 97 | 95 | 95 | 93 | 92 | 90 | | | |
| 2 | 105 | 99 | 94 | 90 | 102 | 97 | 92 | 89 | 94 | 90 | 87 | 91 | 87 | 85 | 88 | 85 | 83 | 81 | | | |
| 3 | 98 | 90 | 84 | 79 | 96 | 89 | 83 | 79 | 86 | 81 | 77 | 84 | 80 | 76 | 81 | 78 | 75 | 73 | | | |
| 4 | 92 | 83 | 76 | 71 | 90 | 82 | 76 | 71 | 80 | 74 | 70 | 77 | 73 | 69 | 75 | 71 | 68 | 66 | | | |
| 5 | 87 | 77 | 70 | 65 | 85 | 76 | 69 | 64 | 74 | 68 | 64 | 72 | 67 | 63 | 70 | 66 | 62 | 61 | | | |
| 6 | 81 | 71 | 64 | 59 | 80 | 70 | 63 | 59 | 68 | 63 | 58 | 67 | 62 | 58 | 66 | 61 | 57 | 56 | | | |
| 7 | 77 | 66 | 59 | 54 | 75 | 65 | 59 | 54 | 64 | 58 | 54 | 63 | 57 | 53 | 61 | 57 | 53 | 51 | | | |
| 8 | 72 | 61 | 55 | 50 | 71 | 61 | 54 | 50 | 60 | 54 | 49 | 59 | 53 | 49 | 58 | 53 | 49 | 47 | | | |
| 9 | 69 | 58 | 51 | 46 | 67 | 57 | 51 | 46 | 56 | 50 | 46 | 55 | 50 | 46 | 54 | 49 | 46 | 44 | | | |
| 10 | 65 | 54 | 47 | 43 | 64 | 54 | 47 | 43 | 53 | 47 | 43 | 52 | 46 | 43 | 51 | 46 | 43 | 41 | | | |

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 121.3 | 7.6 |
| 10°-20° | 321.4 | 20.2 |
| 20°-30° | 429.1 | 26.9 |
| 30°-40° | 346.2 | 21.7 |
| 40°-50° | 165.9 | 10.4 |
| 50°-60° | 98.3 | 6.2 |
| 60°-70° | 65.4 | 4.1 |
| 70°-80° | 35.0 | 2.2 |
| 80°-90° | 9.6 | 0.6 |
| 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° | 871.8 | 54.8 |
| 0°-40° | 1217.9 | 76.5 |
| 0°-60° | 1482.2 | 93.1 |
| 0°-90° | 1592.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1592.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1306 | |
| 5° | 1291 | 121 |
| 15° | 1144 | 321 |
| 25° | 939 | 429 |
| 35° | 554 | 346 |
| 45° | 205 | 166 |
| 55° | 109 | 98 |
| 65° | 66 | 65 |
| 75° | 33 | 35 |
| 85° | 8 | 10 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 1305.8 |
| 2.5° | 1305.8 |
| 5° | 1290.6 |
| 7.5° | 1265.3 |
| 10° | 1229.9 |
| 12.5° | 1191.9 |
| 15° | 1143.8 |
| 17.5° | 1098.3 |
| 20° | 1047.7 |
| 22.5° | 994.5 |
| 25° | 938.9 |
| 27.5° | 880.7 |
| 30° | 797.1 |
| 32.5° | 680.7 |
| 35° | 554.2 |
| 37.5° | 437.8 |
| 40° | 339.1 |
| 42.5° | 263.2 |
| 45° | 205.0 |
| 47.5° | 162.0 |
| 50° | 136.7 |
| 52.5° | 121.5 |
| 55° | 108.8 |
| 57.5° | 98.7 |
| 60° | 86.0 |
| 62.5° | 75.9 |
| 65° | 65.8 |
| 67.5° | 55.7 |
| 70° | 48.1 |
| 72.5° | 40.5 |
| 75° | 32.9 |
| 77.5° | 25.3 |
| 80° | 20.2 |
| 82.5° | 15.2 |
| 85° | 7.6 |
| 87.5° | 2.5 |
| 90° | 0.0 |



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— 0°-180°







(END OF REPORT)