

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: P203754

Luminaire Tested: **LSR6B20D010BZ EC6B10208050 6LBNWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P203754
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: LSR6B20D010BZ EC6B10208050 6LBNWH1
Description: PORTFOLIO 6IN CYLINDER
NARROW DISTRIBUTION WITH WHEAT TRIM
WATTAGE D010TR-21.86 W DE010-20.46 W D5LT-21.24 W DMX-20.89 W DL2-22.5 W
DL3-21.8 6 W DLE-22.46 W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1421.5 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Spacing Criteria (0/90/45): 0.56 / 0.56 / 0.64
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

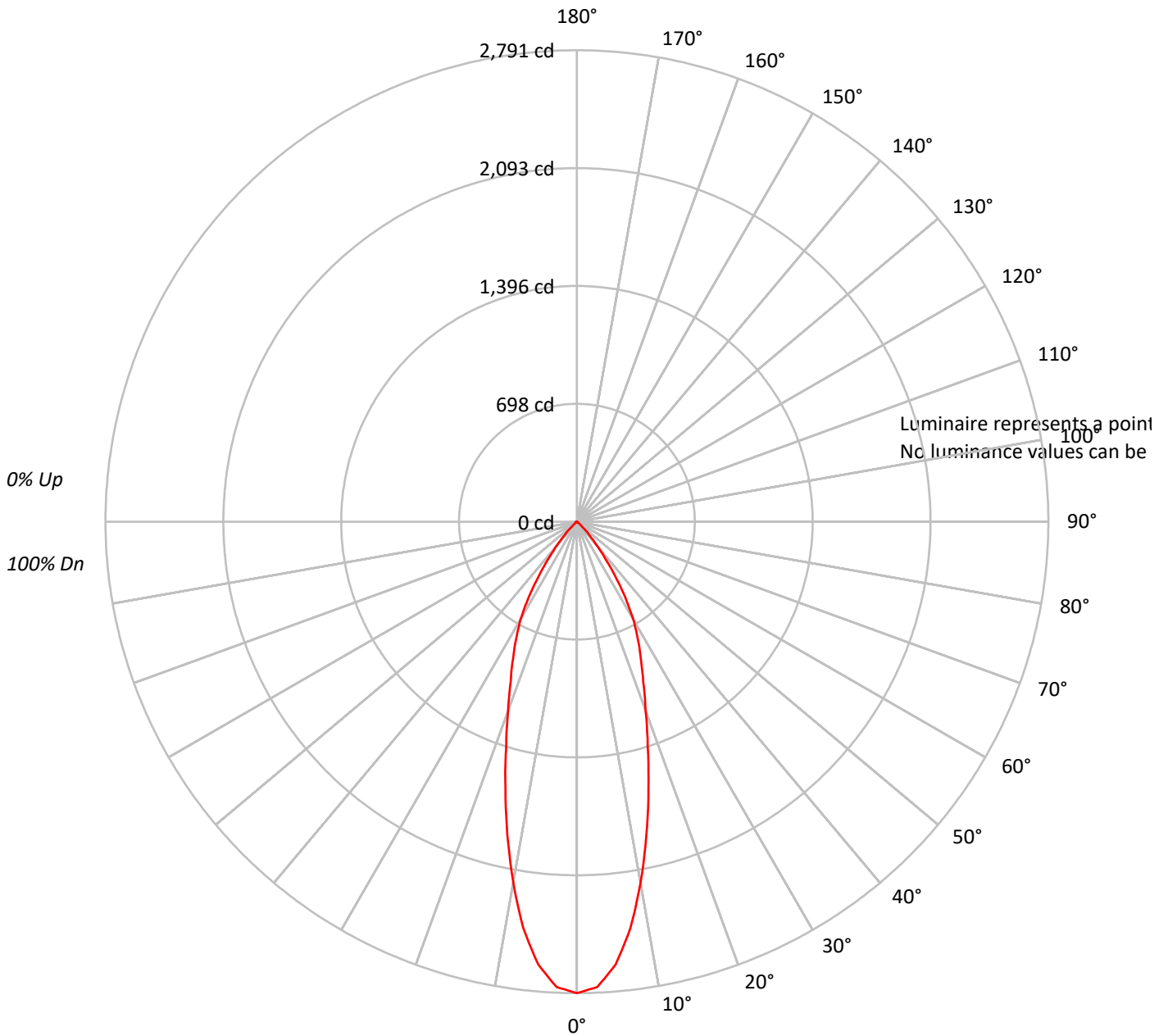
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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 | 100 | 100 | | |
| | 1 | 114 | 111 | 109 | 107 | 112 | 109 | 107 | 105 | 105 | 104 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 94 | 94 | 94 | 94 | 94 | 94 | | |
| | 2 | 109 | 104 | 101 | 97 | 107 | 103 | 99 | 96 | 99 | 97 | 94 | 96 | 94 | 92 | 94 | 92 | 90 | 89 | 89 | 87 | 85 | 85 | 89 | | |
| | 3 | 104 | 98 | 93 | 90 | 102 | 97 | 92 | 89 | 94 | 91 | 88 | 92 | 89 | 86 | 89 | 87 | 85 | 83 | 83 | 81 | 81 | 81 | 83 | | |
| | 4 | 99 | 92 | 87 | 83 | 97 | 91 | 86 | 83 | 89 | 85 | 82 | 87 | 84 | 81 | 85 | 82 | 80 | 79 | 79 | 78 | 75 | 75 | 79 | | |
| | 5 | 95 | 87 | 82 | 78 | 93 | 86 | 81 | 77 | 84 | 80 | 77 | 83 | 79 | 76 | 81 | 78 | 75 | 74 | 74 | 73 | 71 | 71 | 74 | | |
| | 6 | 91 | 82 | 77 | 73 | 89 | 82 | 76 | 73 | 80 | 76 | 72 | 79 | 75 | 72 | 78 | 74 | 71 | 70 | 70 | 69 | 67 | 67 | 70 | | |
| | 7 | 87 | 78 | 73 | 69 | 85 | 77 | 72 | 69 | 76 | 72 | 68 | 75 | 71 | 68 | 74 | 70 | 67 | 66 | 66 | 65 | 63 | 63 | 66 | | |
| | 8 | 83 | 74 | 69 | 65 | 82 | 74 | 68 | 65 | 73 | 68 | 65 | 72 | 67 | 64 | 71 | 67 | 64 | 63 | 63 | 62 | 60 | 60 | 63 | | |
| | 9 | 79 | 71 | 65 | 62 | 78 | 70 | 65 | 61 | 69 | 65 | 61 | 68 | 64 | 61 | 68 | 64 | 61 | 60 | 60 | 59 | 57 | 57 | 60 | | |
| | 10 | 76 | 67 | 62 | 58 | 75 | 67 | 62 | 58 | 66 | 61 | 58 | 65 | 61 | 58 | 65 | 61 | 58 | 57 | 57 | 56 | 54 | 54 | 57 | | |

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 236.3 | 16.6 |
| 10°-20° | 454.0 | 31.9 |
| 20°-30° | 412.7 | 29.0 |
| 30°-40° | 250.2 | 17.6 |
| 40°-50° | 57.0 | 4.0 |
| 50°-60° | 7.3 | 0.5 |
| 60°-70° | 3.3 | 0.2 |
| 70°-80° | 0.9 | 0.1 |
| 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° | 1102.9 | 77.6 |
| 0°-40° | 1353.1 | 95.2 |
| 0°-60° | 1417.4 | 99.7 |
| 0°-90° | 1421.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1421.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 2791 | |
| 5° | 2631 | 236 |
| 15° | 1635 | 454 |
| 25° | 895 | 413 |
| 35° | 397 | 250 |
| 45° | 63 | 57 |
| 55° | 7 | 7 |
| 65° | 2 | 3 |
| 75° | 0 | 1 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 2790.9 |
| 2.5° | 2757.1 |
| 5° | 2631.3 |
| 7.5° | 2428.2 |
| 10° | 2169.4 |
| 12.5° | 1900.9 |
| 15° | 1634.9 |
| 17.5° | 1393.1 |
| 20° | 1189.9 |
| 22.5° | 1025.4 |
| 25° | 894.8 |
| 27.5° | 778.8 |
| 30° | 665.1 |
| 32.5° | 532.1 |
| 35° | 396.6 |
| 37.5° | 278.1 |
| 40° | 183.8 |
| 42.5° | 113.7 |
| 45° | 62.9 |
| 47.5° | 29.0 |
| 50° | 12.1 |
| 52.5° | 9.7 |
| 55° | 7.3 |
| 57.5° | 7.3 |
| 60° | 4.8 |
| 62.5° | 4.8 |
| 65° | 2.4 |
| 67.5° | 2.4 |
| 70° | 2.4 |
| 72.5° | 2.4 |
| 75° | 0.0 |
| 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)