

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: P225478

Luminaire Tested: **LSSQ2B05FL409040D010 2LBDL\*H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P225478  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14832)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LSSQ2B05FL409040D010 2LBDL\*H  
Description: 500 Lumen, 2inch Portfolio LED Cylinder  
FLOOD OPTIC  
LENSED SPUN ROUND TRIM WITH HAZE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 615.0 lumens  
Efficiency: N/A  
Efficacy: 84.2 lumens/watt  
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.6  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

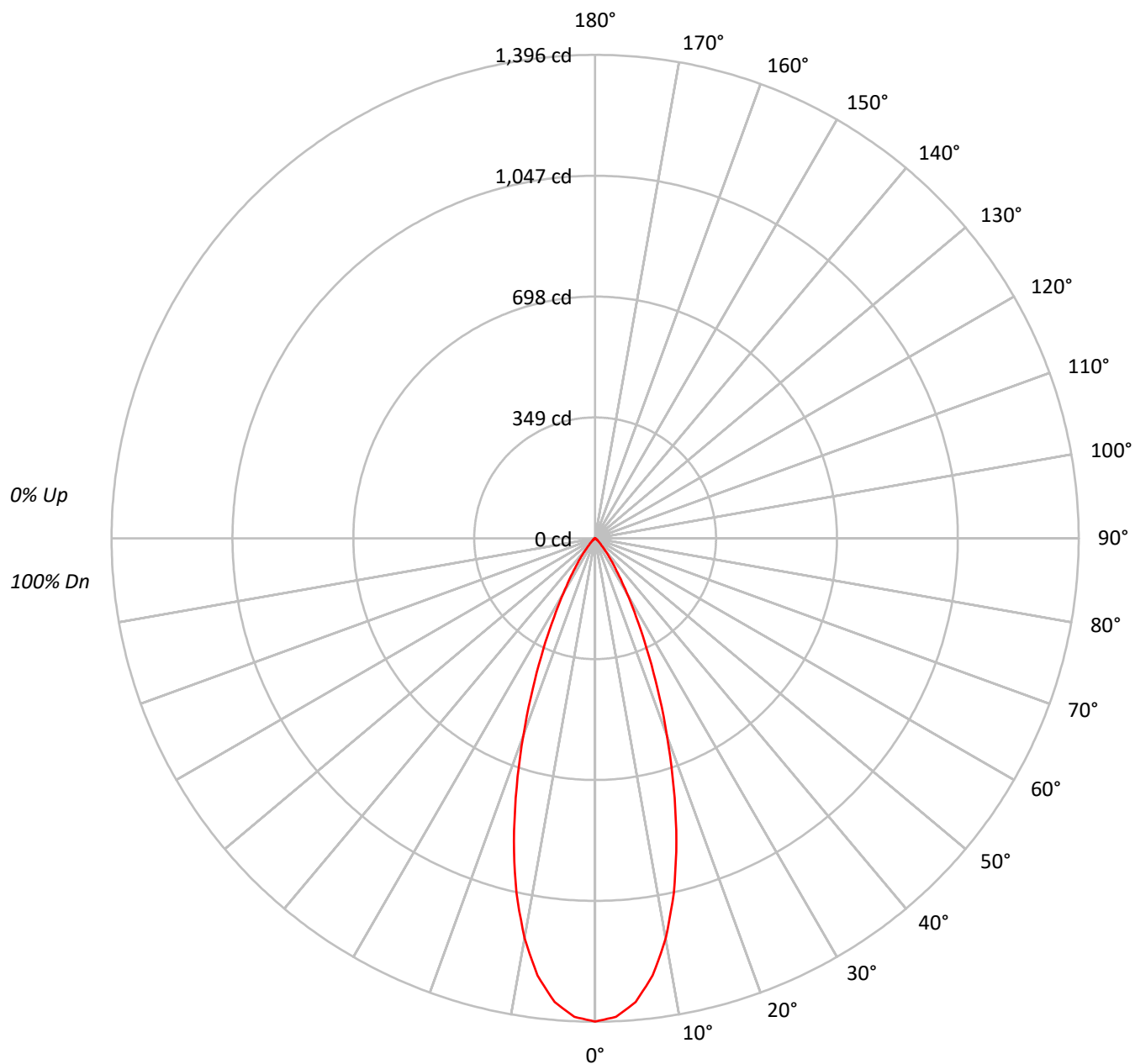
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  |  | 50  | 30  | 10  |  |  | 50  | 30  | 10  |  |  | 50  |
| RCR |     |     |     |     |     |     |     |     |  |     |     |     |  |  |     |     |     |  |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  |  | 106 | 106 | 106 |  |  | 102 |
| 1   | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 |  | 106 | 104 | 103 |  |  | 102 | 101 | 100 |  |  | 99  |
| 2   | 110 | 105 | 102 | 99  | 108 | 104 | 101 | 98  |  | 101 | 98  | 96  |  |  | 98  | 96  | 94  |  |  | 95  |
| 3   | 105 | 100 | 96  | 92  | 103 | 98  | 95  | 91  |  | 96  | 93  | 90  |  |  | 94  | 91  | 89  |  |  | 91  |
| 4   | 101 | 95  | 90  | 86  | 99  | 94  | 89  | 86  |  | 91  | 88  | 85  |  |  | 90  | 86  | 84  |  |  | 88  |
| 5   | 97  | 90  | 85  | 81  | 96  | 89  | 84  | 81  |  | 87  | 83  | 80  |  |  | 86  | 82  | 80  |  |  | 84  |
| 6   | 93  | 86  | 81  | 77  | 92  | 85  | 80  | 77  |  | 84  | 79  | 76  |  |  | 82  | 79  | 76  |  |  | 81  |
| 7   | 90  | 82  | 77  | 73  | 88  | 81  | 76  | 73  |  | 80  | 76  | 73  |  |  | 79  | 75  | 72  |  |  | 78  |
| 8   | 86  | 78  | 73  | 70  | 85  | 78  | 73  | 70  |  | 77  | 72  | 69  |  |  | 76  | 72  | 69  |  |  | 75  |
| 9   | 83  | 75  | 70  | 67  | 82  | 75  | 70  | 67  |  | 74  | 69  | 66  |  |  | 73  | 69  | 66  |  |  | 72  |
| 10  | 80  | 72  | 67  | 64  | 79  | 72  | 67  | 64  |  | 71  | 67  | 64  |  |  | 70  | 66  | 64  |  |  | 70  |

**AVERAGE LUMINANCE (cd/sqm):**

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 540619 |
| 5°  | 522620 |
| 10° | 461130 |
| 15° | 363275 |
| 20° | 249631 |
| 25° | 150740 |
| 30° | 81716  |
| 35° | 41990  |
| 40° | 20529  |
| 45° | 9751   |
| 50° | 5122   |
| 55° | 3444   |
| 60° | 1937   |
| 65° | 733    |
| 70° | 0      |
| 75° | 0      |
| 80° | 0      |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 122.8  | 20.0      |
| 10°-20°   | 246.6  | 40.1      |
| 20°-30°   | 164.8  | 26.8      |
| 30°-40°   | 59.7   | 9.7       |
| 40°-50°   | 15.4   | 2.5       |
| 50°-60°   | 4.6    | 0.7       |
| 60°-70°   | 1.1    | 0.2       |
| 70°-80°   | 0.0    | 0.0       |
| 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°    | 534.2  | 86.9      |
| 0°-40°    | 593.9  | 96.6      |
| 0°-60°    | 613.9  | 99.8      |
| 0°-90°    | 615.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 615.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1396 |      |
| 5°  | 1344 | 123  |
| 15° | 906  | 247  |
| 25° | 353  | 165  |
| 35° | 89   | 60   |
| 45° | 18   | 15   |
| 55° | 5    | 5    |
| 65° | 1    | 1    |
| 75° | 0    | 0    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 1395.7 |
| 2.5°  | 1383.0 |
| 5°    | 1344.1 |
| 7.5°  | 1273.0 |
| 10°   | 1172.4 |
| 12.5° | 1048.9 |
| 15°   | 905.9  |
| 17.5° | 753.7  |
| 20°   | 605.6  |
| 22.5° | 469.5  |
| 25°   | 352.7  |
| 27.5° | 257.1  |
| 30°   | 182.7  |
| 32.5° | 128.6  |
| 35°   | 88.8   |
| 37.5° | 61.7   |
| 40°   | 40.6   |
| 42.5° | 26.2   |
| 45°   | 17.8   |
| 47.5° | 12.7   |
| 50°   | 8.5    |
| 52.5° | 6.8    |
| 55°   | 5.1    |
| 57.5° | 3.4    |
| 60°   | 2.5    |
| 62.5° | 1.7    |
| 65°   | 0.8    |
| 67.5° | 0.8    |
| 70°   | 0.0    |
| 72.5° | 0.0    |
| 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)