

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: P264734

Luminaire Tested: **LD2B20D010 EU2B2010SP158035 2LBDL\*GPH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P264734  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1711-432-2)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B20D010 EU2B2010SP158035 2LBDL\*GPH  
Description: 2000 Lumen, 2inch Portfolio LED Downlight  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1688.0 lumens  
Efficiency: N/A  
Efficacy: 80.8 lumens/watt  
Spacing Criteria (0/90/45): 0.31 / 0.31 / 0.32  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

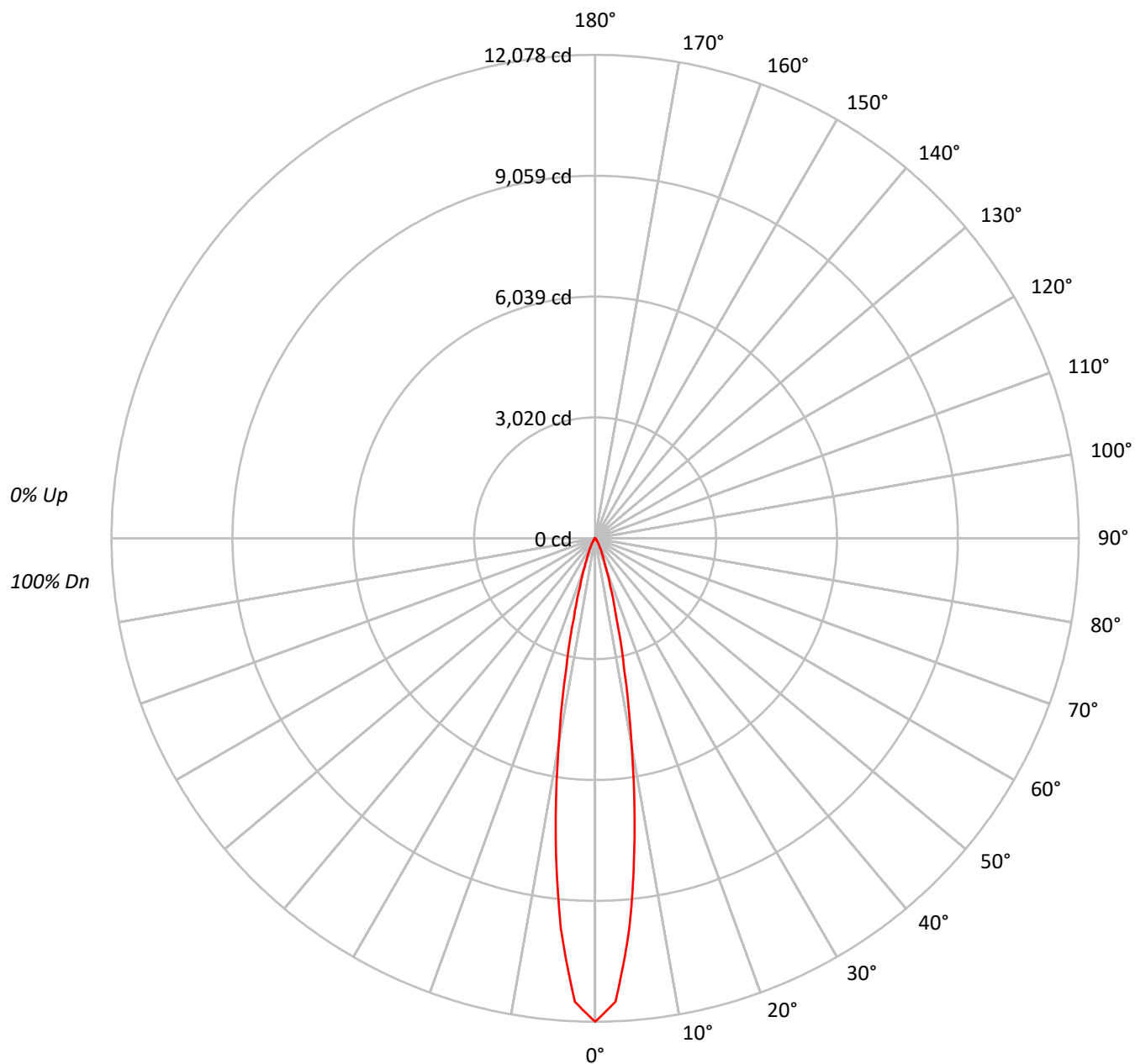
Input Watts (W): 20.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 30  | 10  |
| RCR |     |     |     |     |  |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |
| 0   | 119 | 119 | 119 | 119 |  | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 |
| 1   | 115 | 113 | 111 | 110 |  | 113 | 111 | 110 | 108 |  | 107 | 106 | 105 |  | 104 | 103 | 102 |  | 100 | 99  | 99  |
| 2   | 112 | 108 | 106 | 103 |  | 110 | 107 | 104 | 102 |  | 104 | 102 | 100 |  | 101 | 99  | 98  |  | 98  | 97  | 96  |
| 3   | 109 | 104 | 101 | 98  |  | 107 | 103 | 100 | 97  |  | 100 | 98  | 96  |  | 98  | 96  | 94  |  | 96  | 94  | 93  |
| 4   | 105 | 100 | 97  | 94  |  | 104 | 99  | 96  | 93  |  | 97  | 95  | 92  |  | 96  | 93  | 91  |  | 94  | 92  | 90  |
| 5   | 103 | 97  | 93  | 91  |  | 101 | 96  | 93  | 90  |  | 95  | 92  | 89  |  | 93  | 91  | 89  |  | 92  | 90  | 88  |
| 6   | 100 | 94  | 90  | 88  |  | 99  | 94  | 90  | 87  |  | 92  | 89  | 87  |  | 91  | 88  | 86  |  | 90  | 88  | 86  |
| 7   | 98  | 92  | 88  | 85  |  | 97  | 91  | 88  | 85  |  | 90  | 87  | 85  |  | 89  | 86  | 84  |  | 88  | 86  | 84  |
| 8   | 95  | 89  | 86  | 83  |  | 94  | 89  | 85  | 83  |  | 88  | 85  | 82  |  | 87  | 84  | 82  |  | 86  | 84  | 82  |
| 9   | 93  | 87  | 83  | 81  |  | 92  | 87  | 83  | 81  |  | 86  | 83  | 81  |  | 85  | 82  | 80  |  | 85  | 82  | 80  |
| 10  | 91  | 85  | 82  | 79  |  | 91  | 85  | 81  | 79  |  | 84  | 81  | 79  |  | 84  | 81  | 79  |  | 83  | 80  | 78  |

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

|     |         |
|-----|---------|
|     | 0°      |
| 0°  | 5958972 |
| 5°  | 4849997 |
| 10° | 2619837 |
| 15° | 1044618 |
| 20° | 418865  |
| 25° | 200598  |
| 30° | 103968  |
| 35° | 54988   |
| 40° | 30463   |
| 45° | 18838   |
| 50° | 12971   |
| 55° | 8688    |
| 60° | 6710    |
| 65° | 0       |
| 70° | 0       |
| 75° | 0       |
| 80° | 0       |
| 85° | 0       |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 787.6  | 46.7      |
| 10°-20°   | 621.4  | 36.8      |
| 20°-30°   | 183.3  | 10.9      |
| 30°-40°   | 61.0   | 3.6       |
| 40°-50°   | 22.9   | 1.4       |
| 50°-60°   | 10.1   | 0.6       |
| 60°-70°   | 1.6    | 0.1       |
| 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°    | 1592.3 | 94.3      |
| 0°-40°    | 1653.3 | 97.9      |
| 0°-60°    | 1686.3 | 99.9      |
| 0°-90°    | 1688.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1688.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux |
|-----|-------|------|
| 0°  | 12078 |      |
| 5°  | 9793  | 788  |
| 15° | 2045  | 621  |
| 25° | 368   | 183  |
| 35° | 91    | 61   |
| 45° | 27    | 23   |
| 55° | 10    | 10   |
| 65° | 0     | 2    |
| 75° | 0     | 0    |
| 85° | 0     | 0    |
| 90° | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      |
|-------|---------|
| 0°    | 12078.3 |
| 2.5°  | 11591.5 |
| 5°    | 9793.1  |
| 7.5°  | 7545.2  |
| 10°   | 5229.5  |
| 12.5° | 3346.6  |
| 15°   | 2045.2  |
| 17.5° | 1247.4  |
| 20°   | 797.8   |
| 22.5° | 534.1   |
| 25°   | 368.5   |
| 27.5° | 260.3   |
| 30°   | 182.5   |
| 32.5° | 128.5   |
| 35°   | 91.3    |
| 37.5° | 64.2    |
| 40°   | 47.3    |
| 42.5° | 37.2    |
| 45°   | 27.0    |
| 47.5° | 23.7    |
| 50°   | 16.9    |
| 52.5° | 13.5    |
| 55°   | 10.1    |
| 57.5° | 10.1    |
| 60°   | 6.8     |
| 62.5° | 3.4     |
| 65°   | 0.0     |
| 67.5° | 0.0     |
| 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)