

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: P208168

Luminaire Tested: **LD4B15D010 EU4B10208040 4LBMLI1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P208168  
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: LD4B15D010 EU4B10208040 4LBMLI1  
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
MEDIUM DISTRIBUTION WITH SPECULAR CLEAR TRIM  
WATTAGE D010TR-14.39W DE010-14.29W D5LT-14.34W DMX-14.46W DL2-15.8W  
DL3-15.28W DLE-15.432W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1452.9 lumens  
Efficiency: N/A  
Efficacy: 101.6 lumens/watt  
Spacing Criteria (0/90/45): 0.7 / 0.7 / 0.76  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

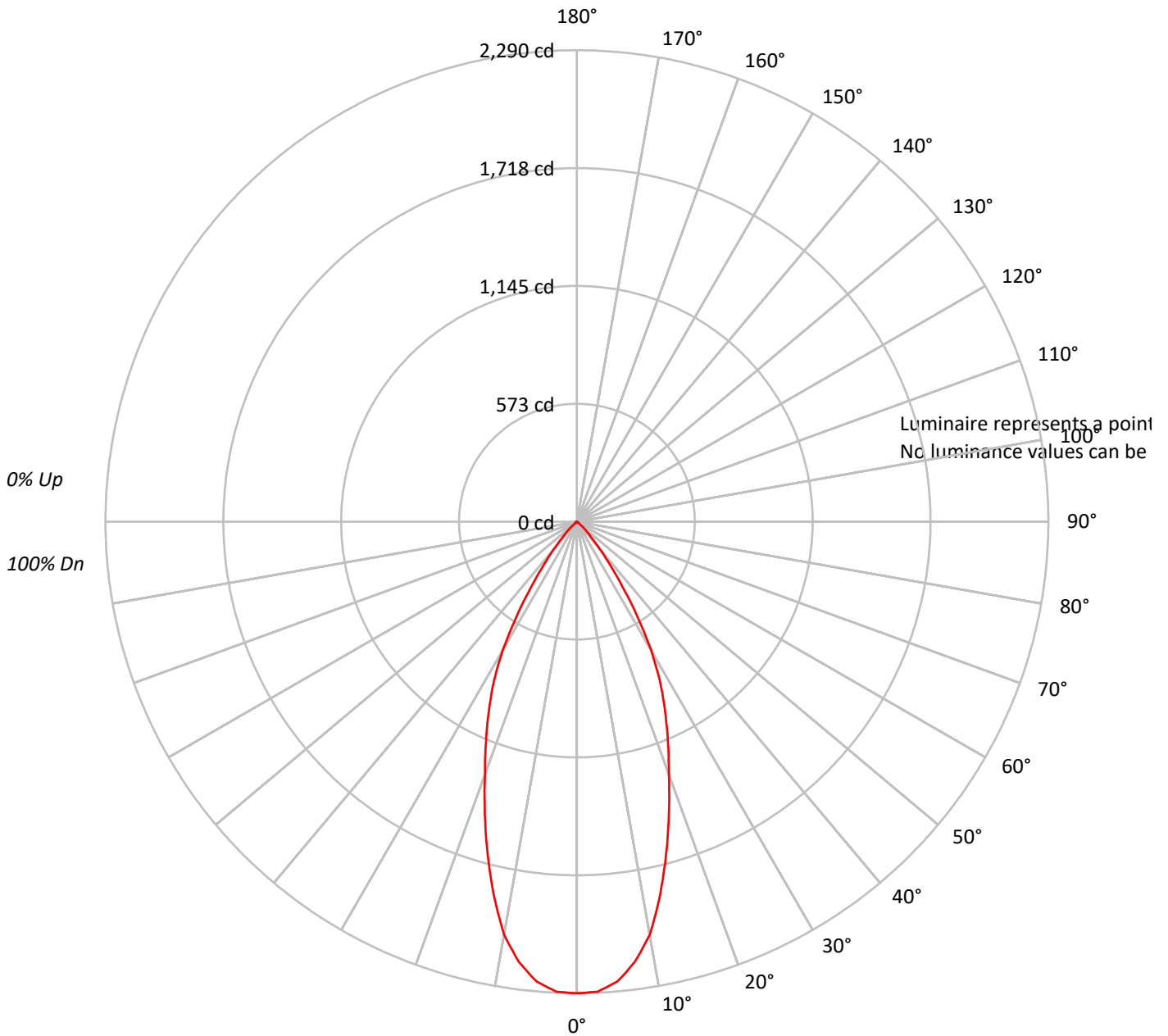
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	88																			
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83																			
4	99	92	87	83	97	91	86	82	89	85	81	87	83	80	85	82	79	78																			
5	94	87	81	77	93	86	81	77	84	79	76	82	78	75	81	77	75	73																			
6	90	82	76	72	89	81	76	72	80	75	71	78	74	71	77	73	71	69																			
7	86	77	72	68	85	77	71	68	75	71	67	74	70	67	73	69	67	65																			
8	82	73	68	64	81	73	67	64	72	67	64	71	66	63	70	66	63	62																			
9	79	70	64	60	78	69	64	60	68	63	60	67	63	60	67	63	60	58																			
10	75	66	61	57	74	66	61	57	65	60	57	64	60	57	64	60	57	56																			

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.4	14.3
10°-20°	463.6	31.9
20°-30°	460.9	31.7
30°-40°	251.0	17.3
40°-50°	58.0	4.0
50°-60°	8.2	0.6
60°-70°	3.0	0.2
70°-80°	0.7	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°	1131.9	77.9
0°-40°	1383.0	95.2
0°-60°	1449.1	99.7
0°-90°	1452.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1452.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2290	
5°	2243	207
15°	1673	464
25°	1011	461
35°	388	251
45°	67	58
55°	9	8
65°	4	3
75°	0	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2290.4
2.5°	2285.1
5°	2242.9
7.5°	2156.8
10°	2037.3
12.5°	1861.5
15°	1673.4
17.5°	1487.1
20°	1304.3
22.5°	1154.9
25°	1010.7
27.5°	873.6
30°	718.9
32.5°	546.7
35°	388.5
37.5°	261.9
40°	170.5
42.5°	107.2
45°	66.8
47.5°	38.7
50°	19.3
52.5°	10.5
55°	8.8
57.5°	5.3
60°	5.3
62.5°	3.5
65°	3.5
67.5°	1.8
70°	1.8
72.5°	1.8
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)