

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: P225255

Luminaire Tested: **LD2B15D010 EU2B15FL408027 2LBDSQLC\*MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P225255  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14838)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B15D010 EU2B15FL408027 2LBDSQLC\*MB  
Description: 1500 Lumen, 2inch Portfolio LED Downlight  
FLOOD OPTIC  
LENSED SQUARE CAST TRIM WITH MATTE BLACK FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1179.9 lumens  
Efficiency: N/A  
Efficacy: 82.5 lumens/watt  
Spacing Criteria (0/90/45): 0.6 / 0.61 / 0.59  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

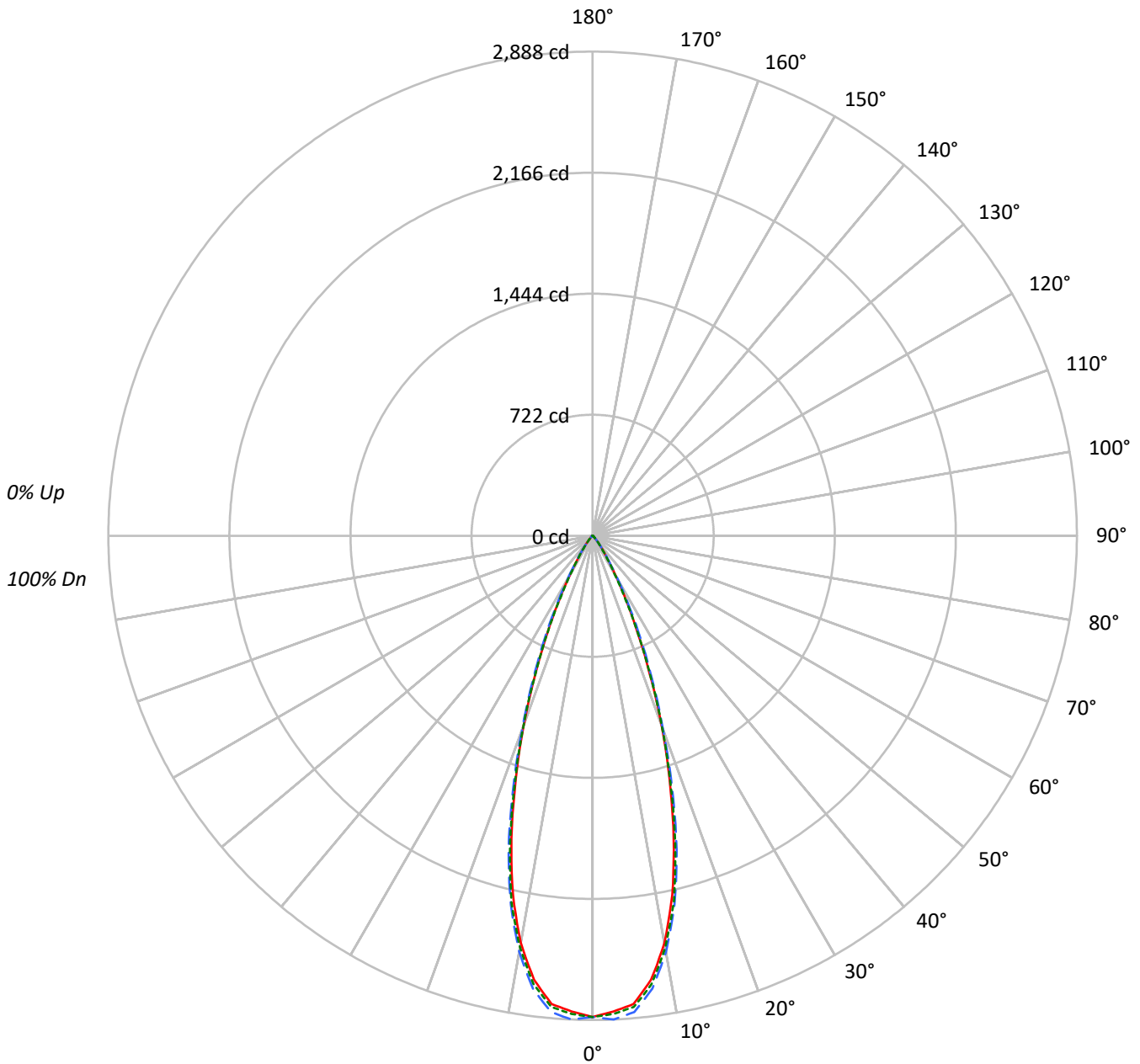
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96																			
2	110	106	103	100	108	105	102	99	101	99	97	98	97	95	96	94	93	91																			
3	106	101	97	94	104	99	96	93	97	94	91	95	92	90	92	90	89	87																			
4	102	96	92	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83																			
5	98	92	87	84	97	91	86	83	89	85	82	88	84	82	86	83	81	80																			
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	77																			
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73																			
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71																			
9	85	78	73	70	84	77	73	70	76	72	69	76	72	69	75	71	69	68																			
10	82	75	70	67	82	74	70	67	74	70	67	73	69	67	72	69	66	65																			

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

	0°	45°	90°
0°	1111915	1111915	1111915
5°	1089917	1108658	1096799
10°	969931	990777	980668
15°	749408	776436	762922
20°	494357	504951	496996
25°	269640	288188	271050
30°	121344	134270	116335
35°	52393	53906	47806
40°	21894	22754	20276
45°	8819	9696	9696
50°	3857	4821	4821
55°	2161	2161	3242
60°	1240	1240	1240
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	259.5	22.0
10°-20°	516.5	43.8
20°-30°	305.1	25.9
30°-40°	79.4	6.7
40°-50°	15.7	1.3
50°-60°	3.4	0.3
60°-70°	0.3	0.0
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°	1081.0	91.6
0°-40°	1160.5	98.4
0°-60°	1179.6	100.0
0°-90°	1179.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1179.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2871	2871	2871	2871	2871	
5°	2803	2826	2851	2832	2821	256
15°	1869	1910	1936	1907	1902	507
25°	631	652	674	649	634	297
35°	111	116	114	112	101	78
45°	16	19	18	18	18	15
55°	3	3	3	3	5	3
65°	0	0	0	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2870.6	2870.6	2870.6	2870.6	2870.6
2.5°	2840.1	2869.0	2888.2	2872.2	2854.5
5°	2803.1	2825.6	2851.3	2832.0	2820.8
7.5°	2671.5	2705.2	2724.5	2714.8	2697.2
10°	2466.0	2491.7	2519.0	2509.3	2493.3
12.5°	2194.7	2230.0	2255.7	2233.2	2236.4
15°	1868.8	1910.5	1936.2	1907.3	1902.5
17.5°	1523.6	1555.7	1573.4	1555.7	1542.9
20°	1199.3	1218.5	1225.0	1216.9	1205.7
22.5°	886.2	907.1	926.4	907.1	892.6
25°	630.9	651.8	674.3	648.6	634.2
27.5°	425.4	438.3	457.6	433.5	412.6
30°	271.3	285.8	300.2	282.6	260.1
32.5°	171.8	181.4	183.0	179.8	160.5
35°	110.8	115.6	114.0	112.4	101.1
37.5°	70.6	70.6	72.2	70.6	64.2
40°	43.3	46.6	45.0	43.3	40.1
42.5°	25.7	28.9	27.3	27.3	25.7
45°	16.1	19.3	17.7	17.7	17.7
47.5°	11.2	12.8	11.2	11.2	12.8
50°	6.4	8.0	8.0	8.0	8.0
52.5°	4.8	4.8	4.8	4.8	6.4
55°	3.2	3.2	3.2	3.2	4.8
57.5°	3.2	3.2	1.6	1.6	3.2
60°	1.6	1.6	1.6	1.6	1.6
62.5°	1.6	0.0	0.0	0.0	1.6
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)