

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: P225258

Luminaire Tested: **LD2B15D010 EU2B15FL408040 2LBDSQLC\*MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P225258  
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 EU2B15FL408040 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: 1266.1 lumens  
Efficiency: N/A  
Efficacy: 88.5 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

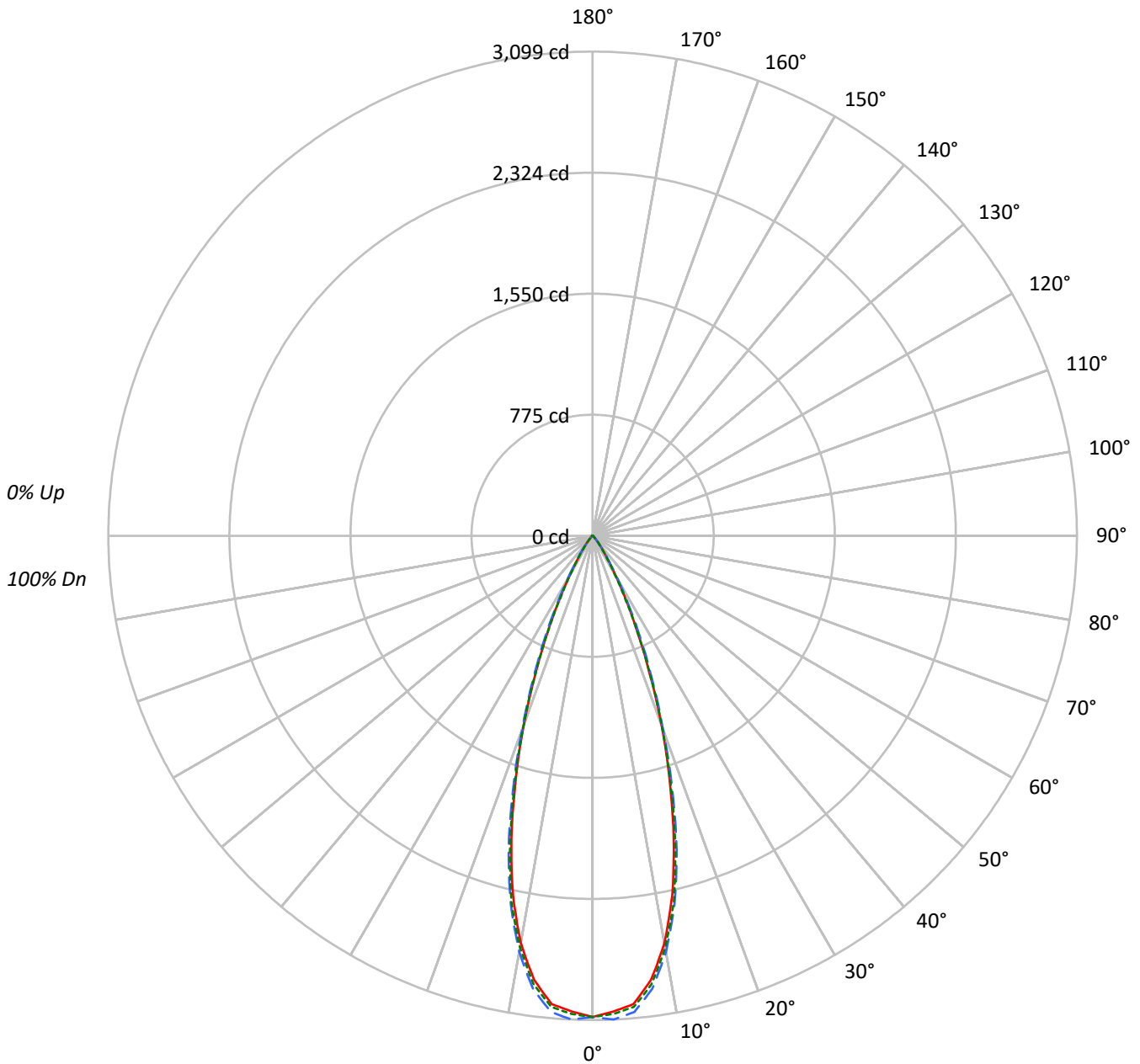
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1193142	1193142	1193142
5°	1169548	1189651	1176936
10°	1040807	1063148	1052292
15°	804146	833139	818662
20°	530467	541843	533311
25°	289342	309259	290838
30°	130200	144110	124833
35°	56223	57831	51306
40°	23512	24372	21793
45°	9422	10408	10408
50°	4158	5182	5182
55°	2296	2296	3512
60°	1317	1317	1317
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°	278.4	22.0
10°-20°	554.2	43.8
20°-30°	327.4	25.9
30°-40°	85.2	6.7
40°-50°	16.9	1.3
50°-60°	3.7	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°	1160.0	91.6
0°-40°	1245.2	98.4
0°-60°	1265.8	100.0
0°-90°	1266.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1266.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3080	3080	3080	3080	3080	
5°	3008	3032	3060	3039	3027	275
15°	2005	2050	2078	2047	2042	544
25°	677	699	724	696	680	319
35°	119	124	122	121	108	83
45°	17	21	19	19	19	16
55°	3	3	3	3	5	4
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°	3080.3	3080.3	3080.3	3080.3	3080.3
2.5°	3047.6	3078.6	3099.2	3082.0	3063.1
5°	3007.9	3032.1	3059.6	3038.9	3026.9
7.5°	2866.7	2902.8	2923.5	2913.2	2894.2
10°	2646.2	2673.7	2703.0	2692.7	2675.4
12.5°	2355.0	2392.9	2420.5	2396.4	2399.8
15°	2005.3	2050.1	2077.6	2046.6	2041.5
17.5°	1634.9	1669.4	1688.3	1669.4	1655.6
20°	1286.9	1307.6	1314.5	1305.9	1293.8
22.5°	951.0	973.4	994.0	973.4	957.9
25°	677.0	699.4	723.6	696.0	680.5
27.5°	456.5	470.3	491.0	465.1	442.7
30°	291.1	306.7	322.2	303.2	279.1
32.5°	184.3	194.7	196.4	192.9	172.3
35°	118.9	124.0	122.3	120.6	108.5
37.5°	75.8	75.8	77.5	75.8	68.9
40°	46.5	50.0	48.2	46.5	43.1
42.5°	27.6	31.0	29.3	29.3	27.6
45°	17.2	20.7	19.0	19.0	19.0
47.5°	12.1	13.8	12.1	12.1	13.8
50°	6.9	8.6	8.6	8.6	8.6
52.5°	5.2	5.2	5.2	5.2	6.9
55°	3.4	3.4	3.4	3.4	5.2
57.5°	3.4	3.4	1.7	1.7	3.4
60°	1.7	1.7	1.7	1.7	1.7
62.5°	1.7	0.0	0.0	0.0	1.7
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)