

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: P225212

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P225212  
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 2LBDSQC\*MB  
Description: 1500 Lumen, 2inch Portfolio LED Downlight  
FLOOD OPTIC  
SQUARE CAST TRIM WITH MATTE BLACK FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1280.4 lumens  
Efficiency: N/A  
Efficacy: 89.5 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

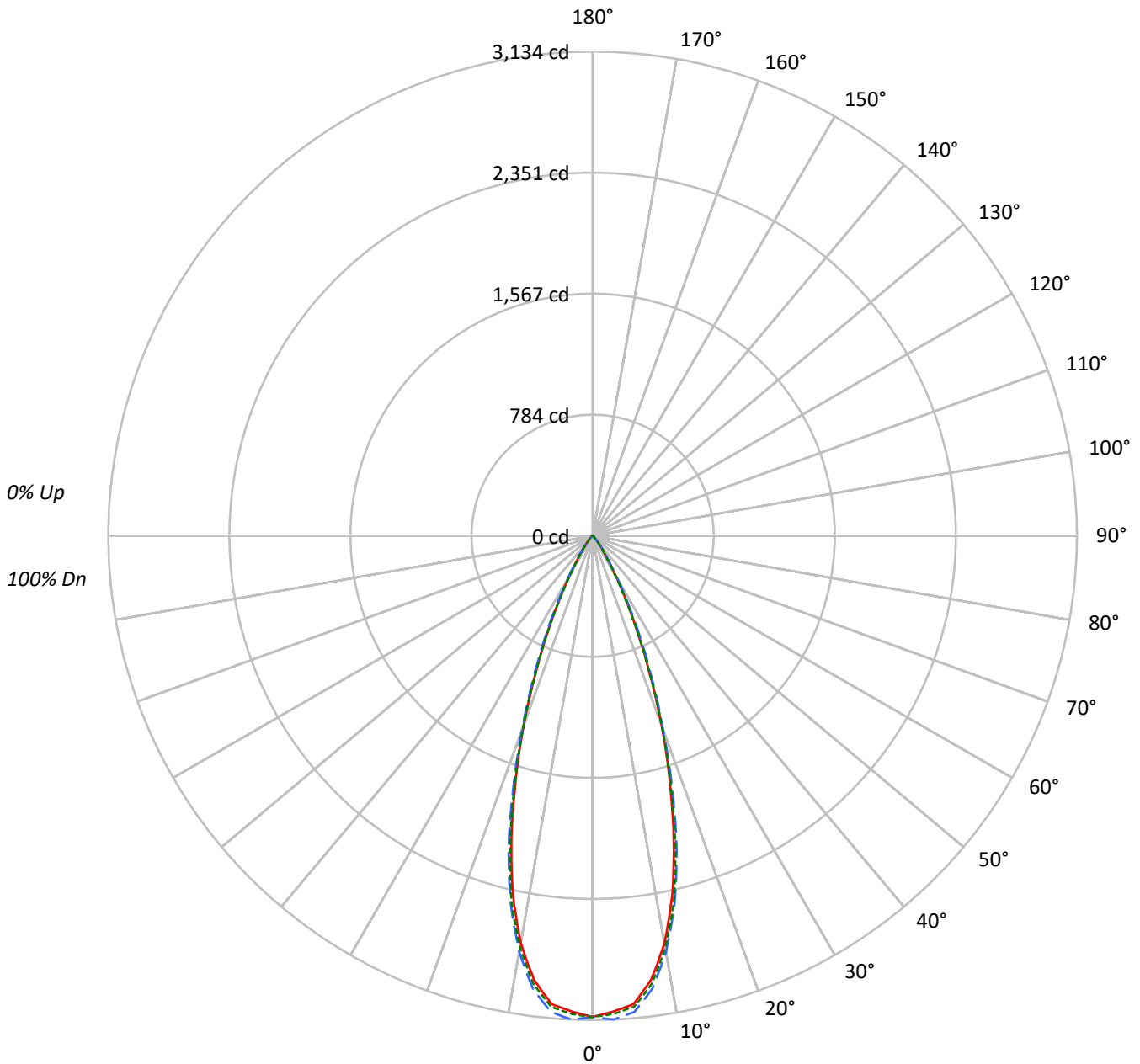
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1206621	1206621	1206621
5°	1182769	1203104	1190234
10°	1052528	1075144	1064210
15°	813208	842562	827885
20°	536444	547944	539329
25°	292633	312721	294129
30°	131676	145720	126219
35°	56838	58493	51920
40°	23765	24675	22046
45°	9532	10518	10518
50°	4218	5243	5243
55°	2364	2364	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°	281.6	22.0
10°-20°	560.5	43.8
20°-30°	331.1	25.9
30°-40°	86.2	6.7
40°-50°	17.0	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°	1173.1	91.6
0°-40°	1259.3	98.4
0°-60°	1280.1	100.0
0°-90°	1280.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1280.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3115	3115	3115	3115	3115	
5°	3042	3066	3094	3073	3061	278
15°	2028	2073	2101	2070	2064	550
25°	685	707	732	704	688	323
35°	120	125	124	122	110	84
45°	17	21	19	19	19	16
55°	4	4	4	4	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	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3115.1	3115.1	3115.1	3115.1	3115.1
2.5°	3082.0	3113.3	3134.2	3116.8	3097.7
5°	3041.9	3066.3	3094.2	3073.3	3061.1
7.5°	2899.0	2935.6	2956.5	2946.1	2926.9
10°	2676.0	2703.9	2733.5	2723.1	2705.7
12.5°	2381.6	2419.9	2447.8	2423.4	2426.9
15°	2027.9	2073.2	2101.1	2069.8	2064.5
17.5°	1653.4	1688.2	1707.4	1688.2	1674.3
20°	1301.4	1322.3	1329.3	1320.6	1308.4
22.5°	961.7	984.4	1005.3	984.4	968.7
25°	684.7	707.3	731.7	703.9	688.2
27.5°	461.7	475.6	496.5	470.4	447.7
30°	294.4	310.1	325.8	306.6	282.2
32.5°	186.4	196.9	198.6	195.1	174.2
35°	120.2	125.4	123.7	122.0	109.8
37.5°	76.7	76.7	78.4	76.7	69.7
40°	47.0	50.5	48.8	47.0	43.6
42.5°	27.9	31.4	29.6	29.6	27.9
45°	17.4	20.9	19.2	19.2	19.2
47.5°	12.2	13.9	12.2	12.2	13.9
50°	7.0	8.7	8.7	8.7	8.7
52.5°	5.2	5.2	5.2	5.2	7.0
55°	3.5	3.5	3.5	3.5	5.2
57.5°	3.5	3.5	1.7	1.7	3.5
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)