

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: P225185

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P225185  
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 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: 1373.8 lumens  
Efficiency: N/A  
Efficacy: 96.1 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

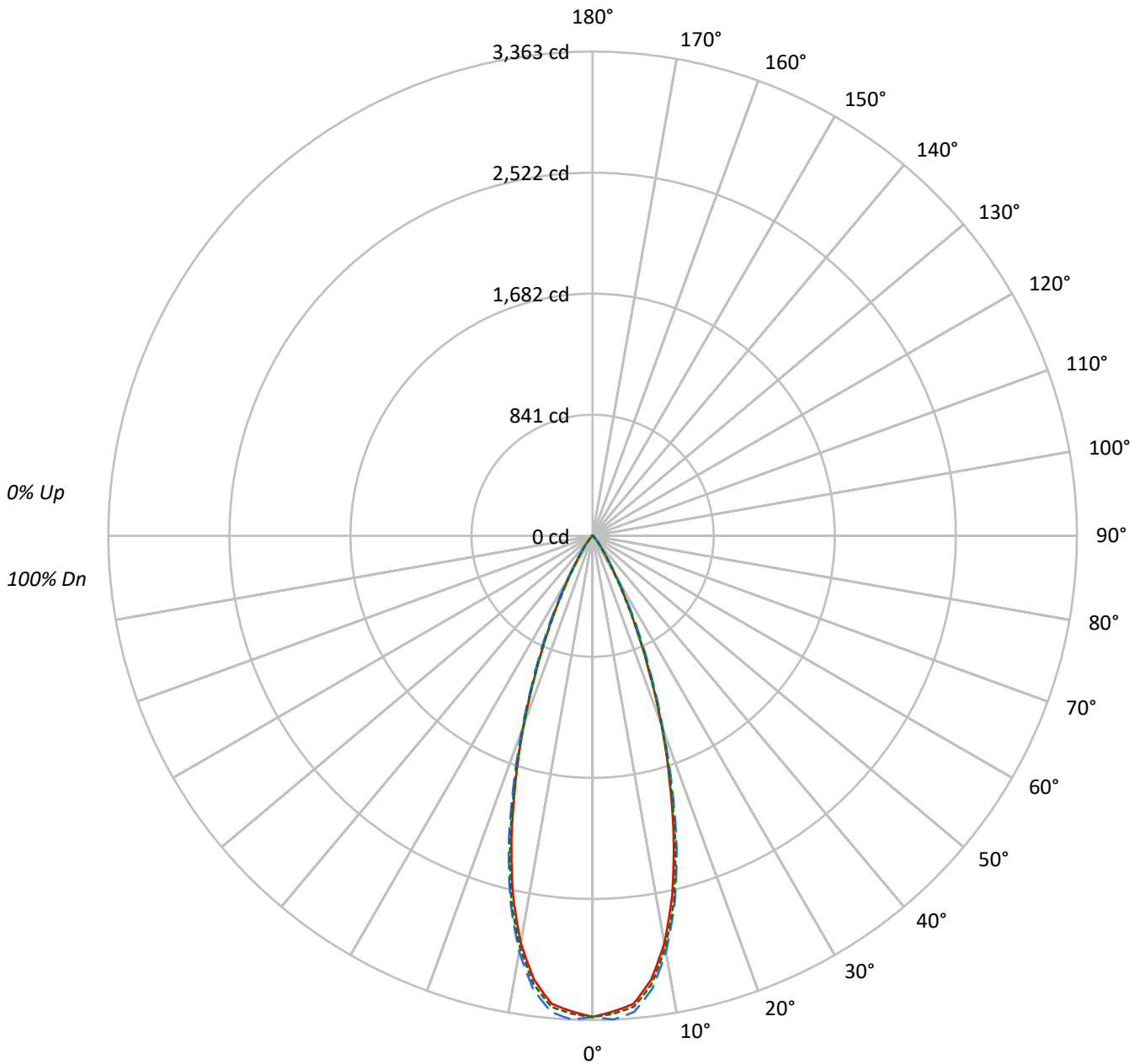
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1294626	1294626	1294626
5°	1269049	1290862	1277059
10°	1129344	1153572	1141812
15°	872558	904037	888277
20°	575603	587928	578653
25°	313960	335543	315584
30°	141292	156365	135433
35°	60999	62749	55703
40°	25535	26445	23614
45°	10244	11284	11284
50°	4520	5604	5604
55°	2499	2499	3782
60°	1472	1472	1472
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°	302.1	22.0
10°-20°	601.4	43.8
20°-30°	355.2	25.9
30°-40°	92.5	6.7
40°-50°	18.3	1.3
50°-60°	4.0	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°	1258.7	91.6
0°-40°	1351.2	98.4
0°-60°	1373.5	100.0
0°-90°	1373.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1373.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3342	3342	3342	3342	3342	
5°	3264	3290	3320	3298	3284	299
15°	2176	2224	2254	2221	2215	590
25°	735	759	785	755	738	346
35°	129	135	133	131	118	90
45°	19	22	21	21	21	17
55°	4	4	4	4	6	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°	3342.3	3342.3	3342.3	3342.3	3342.3
2.5°	3306.8	3340.4	3362.9	3344.2	3323.6
5°	3263.8	3290.0	3319.9	3297.5	3284.4
7.5°	3110.5	3149.8	3172.2	3161.0	3140.4
10°	2871.3	2901.2	2932.9	2921.7	2903.0
12.5°	2555.3	2596.5	2626.4	2600.2	2603.9
15°	2175.9	2224.5	2254.4	2220.7	2215.1
17.5°	1774.0	1811.4	1831.9	1811.4	1796.4
20°	1396.4	1418.8	1426.3	1416.9	1403.8
22.5°	1031.9	1056.2	1078.6	1056.2	1039.3
25°	734.6	758.9	785.1	755.2	738.4
27.5°	495.4	510.3	532.8	504.7	480.4
30°	315.9	332.7	349.6	329.0	302.8
32.5°	200.0	211.2	213.1	209.4	186.9
35°	129.0	134.6	132.7	130.9	117.8
37.5°	82.2	82.2	84.1	82.2	74.8
40°	50.5	54.2	52.3	50.5	46.7
42.5°	29.9	33.6	31.8	31.8	29.9
45°	18.7	22.4	20.6	20.6	20.6
47.5°	13.1	15.0	13.1	13.1	15.0
50°	7.5	9.3	9.3	9.3	9.3
52.5°	5.6	5.6	5.6	5.6	7.5
55°	3.7	3.7	3.7	3.7	5.6
57.5°	3.7	3.7	1.9	1.9	3.7
60°	1.9	1.9	1.9	1.9	1.9
62.5°	1.9	0.0	0.0	0.0	1.9
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)