

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: P225194

Luminaire Tested: **LD2B15D010 EU2B15FL409730 2LBDSQC\*MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P225194  
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 EU2B15FL409730 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: 966.2 lumens  
Efficiency: N/A  
Efficacy: 67.6 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

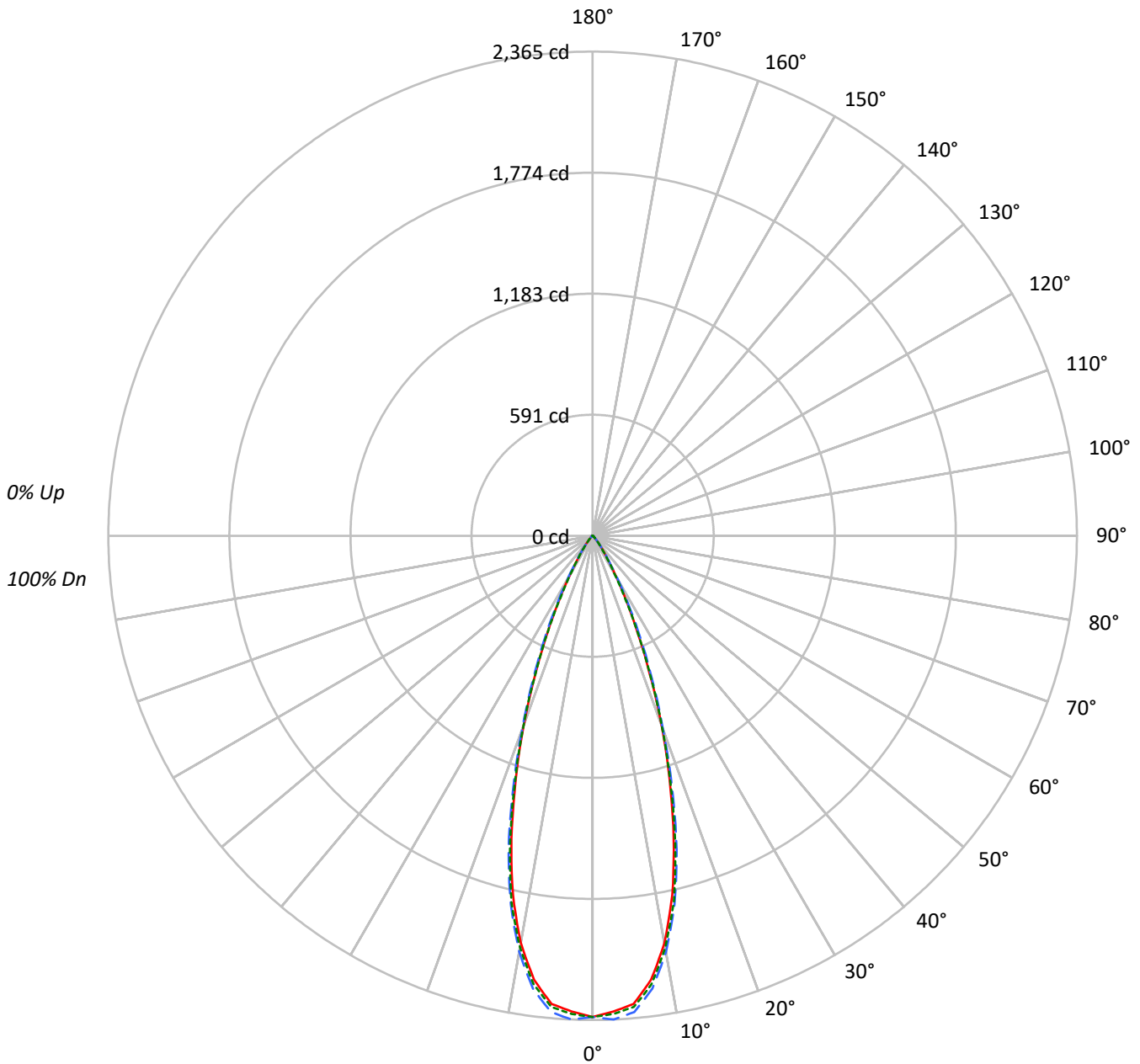
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	910534	910534	910534
5°	892510	907869	898148
10°	794273	811304	803044
15°	613666	635801	624734
20°	404827	413483	406970
25°	220832	236004	221943
30°	99383	109939	95268
35°	42889	44118	39153
40°	17950	18608	16636
45°	7176	7943	7943
50°	3194	3977	3977
55°	1756	1756	2634
60°	1007	1007	1007
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°	212.5	22.0
10°-20°	422.9	43.8
20°-30°	249.8	25.9
30°-40°	65.0	6.7
40°-50°	12.9	1.3
50°-60°	2.8	0.3
60°-70°	0.2	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°	885.2	91.6
0°-40°	950.3	98.4
0°-60°	965.9	100.0
0°-90°	966.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	966.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2351	2351	2351	2351	2351	
5°	2295	2314	2335	2319	2310	210
15°	1530	1564	1586	1562	1558	415
25°	517	534	552	531	519	243
35°	91	95	93	92	83	63
45°	13	16	14	14	14	12
55°	3	3	3	3	4	3
65°	0	0	0	0	0	0
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°	2350.7	2350.7	2350.7	2350.7	2350.7
2.5°	2325.7	2349.4	2365.1	2352.0	2337.5
5°	2295.4	2313.9	2334.9	2319.1	2309.9
7.5°	2187.6	2215.3	2231.0	2223.1	2208.7
10°	2019.4	2040.4	2062.7	2054.9	2041.7
12.5°	1797.2	1826.1	1847.1	1828.7	1831.4
15°	1530.3	1564.5	1585.5	1561.9	1557.9
17.5°	1247.6	1273.9	1288.4	1273.9	1263.4
20°	982.1	997.8	1003.1	996.5	987.3
22.5°	725.7	742.8	758.6	742.8	731.0
25°	516.7	533.8	552.2	531.1	519.3
27.5°	348.4	358.9	374.7	355.0	337.9
30°	222.2	234.0	245.8	231.4	213.0
32.5°	140.7	148.6	149.9	147.2	131.5
35°	90.7	94.7	93.3	92.0	82.8
37.5°	57.8	57.8	59.2	57.8	52.6
40°	35.5	38.1	36.8	35.5	32.9
42.5°	21.0	23.7	22.3	22.3	21.0
45°	13.1	15.8	14.5	14.5	14.5
47.5°	9.2	10.5	9.2	9.2	10.5
50°	5.3	6.6	6.6	6.6	6.6
52.5°	3.9	3.9	3.9	3.9	5.3
55°	2.6	2.6	2.6	2.6	3.9
57.5°	2.6	2.6	1.3	1.3	2.6
60°	1.3	1.3	1.3	1.3	1.3
62.5°	1.3	0.0	0.0	0.0	1.3
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)