

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: P#

Luminaire Tested: **LD2B15D010 EU2B15WFL558040 2LBDSQC\*MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14813)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B15D010 EU2B15WFL558040 2LBDSQC\*MB  
Description: 1500 Lumen, 2inch Portfolio LED Downlight  
WIDE FLOOD OPTIC  
SQUARE CAST TRIM WITH MATTE BLACK FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1185.3 lumens  
Efficiency: N/A  
Efficacy: 82.9 lumens/watt  
Spacing Criteria (0/90/45): 0.78 / 0.77 / 0.83  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

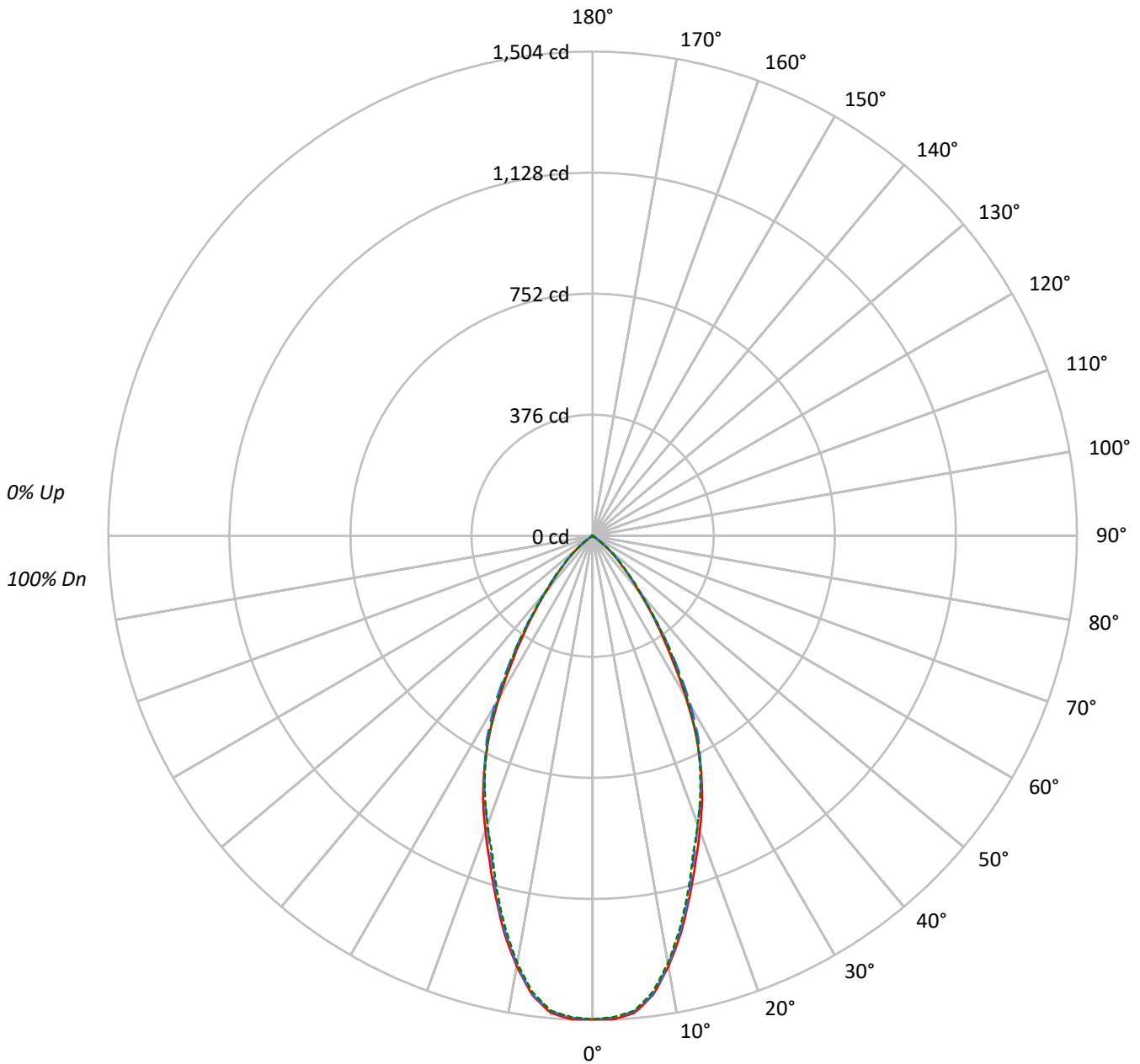
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94																			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87																			
3	102	96	91	87	100	95	90	86	92	88	85	89	86	84	87	85	82	81																			
4	97	90	84	80	95	88	83	79	86	82	78	84	80	77	82	79	77	75																			
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70																			
6	87	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65																			
7	83	74	68	64	82	73	67	63	72	67	63	71	66	63	70	65	62	61																			
8	79	70	64	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57																			
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54																			
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	51																			

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

	0°	45°	90°
0°	581716	581716	581716
5°	578572	576589	575928
10°	533973	531928	529922
15°	465934	462525	459076
20°	401117	393367	393367
25°	339603	338877	337424
30°	258700	272521	263307
35°	176094	186686	185031
40°	111090	117158	116298
45°	68638	69569	70501
50°	35192	39290	38265
55°	4660	13912	5808
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°	137.4	11.6
10°-20°	321.1	27.1
20°-30°	360.3	30.4
30°-40°	244.8	20.6
40°-50°	102.3	8.6
50°-60°	19.1	1.6
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°	818.8	69.1
0°-40°	1063.6	89.7
0°-60°	1185.0	100.0
0°-90°	1185.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1185.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1502	1502	1502	1502	1502	
5°	1488	1486	1483	1480	1481	138
15°	1162	1158	1153	1143	1145	324
25°	795	802	793	791	790	360
35°	372	384	395	386	391	236
45°	125	124	127	129	129	99
55°	7	15	21	15	9	14
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°	1501.8	1501.8	1501.8	1501.8	1501.8
2.5°	1503.5	1500.1	1498.3	1496.6	1496.6
5°	1488.0	1486.3	1482.9	1479.5	1481.2
7.5°	1438.3	1436.5	1436.5	1429.7	1429.7
10°	1357.6	1357.6	1352.4	1352.4	1347.3
12.5°	1264.9	1258.1	1258.1	1252.9	1249.5
15°	1161.9	1158.5	1153.4	1143.1	1144.8
17.5°	1062.4	1055.5	1045.2	1040.1	1036.6
20°	973.1	971.4	954.3	950.8	954.3
22.5°	889.0	890.8	877.0	873.6	873.6
25°	794.6	801.5	792.9	791.2	789.5
27.5°	693.4	705.4	710.6	698.5	696.8
30°	578.4	599.0	609.3	597.3	588.7
32.5°	466.8	487.4	497.7	489.1	484.0
35°	372.4	384.5	394.8	386.2	391.3
37.5°	291.8	298.6	302.1	302.1	302.1
40°	219.7	226.6	231.7	233.4	230.0
42.5°	166.5	169.9	173.3	175.1	173.3
45°	125.3	123.6	127.0	128.7	128.7
47.5°	91.0	91.0	92.7	94.4	94.4
50°	58.4	61.8	65.2	63.5	63.5
52.5°	25.7	36.0	42.9	36.0	29.2
55°	6.9	15.4	20.6	15.4	8.6
57.5°	1.7	5.1	6.9	5.1	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)