

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: **LD2B10D010 EU2B10WFL558030 2LBDSQLC\*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 (P14812)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B10D010 EU2B10WFL558030 2LBDSQLC\*MB  
Description: 1000 Lumen, 2inch Portfolio LED Downlight  
WIDE FLOOD OPTIC  
LENSED SQUARE CAST TRIM WITH MATTE BLACK FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 836.5 lumens  
Efficiency: N/A  
Efficacy: 81.2 lumens/watt  
Spacing Criteria (0/90/45): 0.78 / 0.76 / 0.83  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

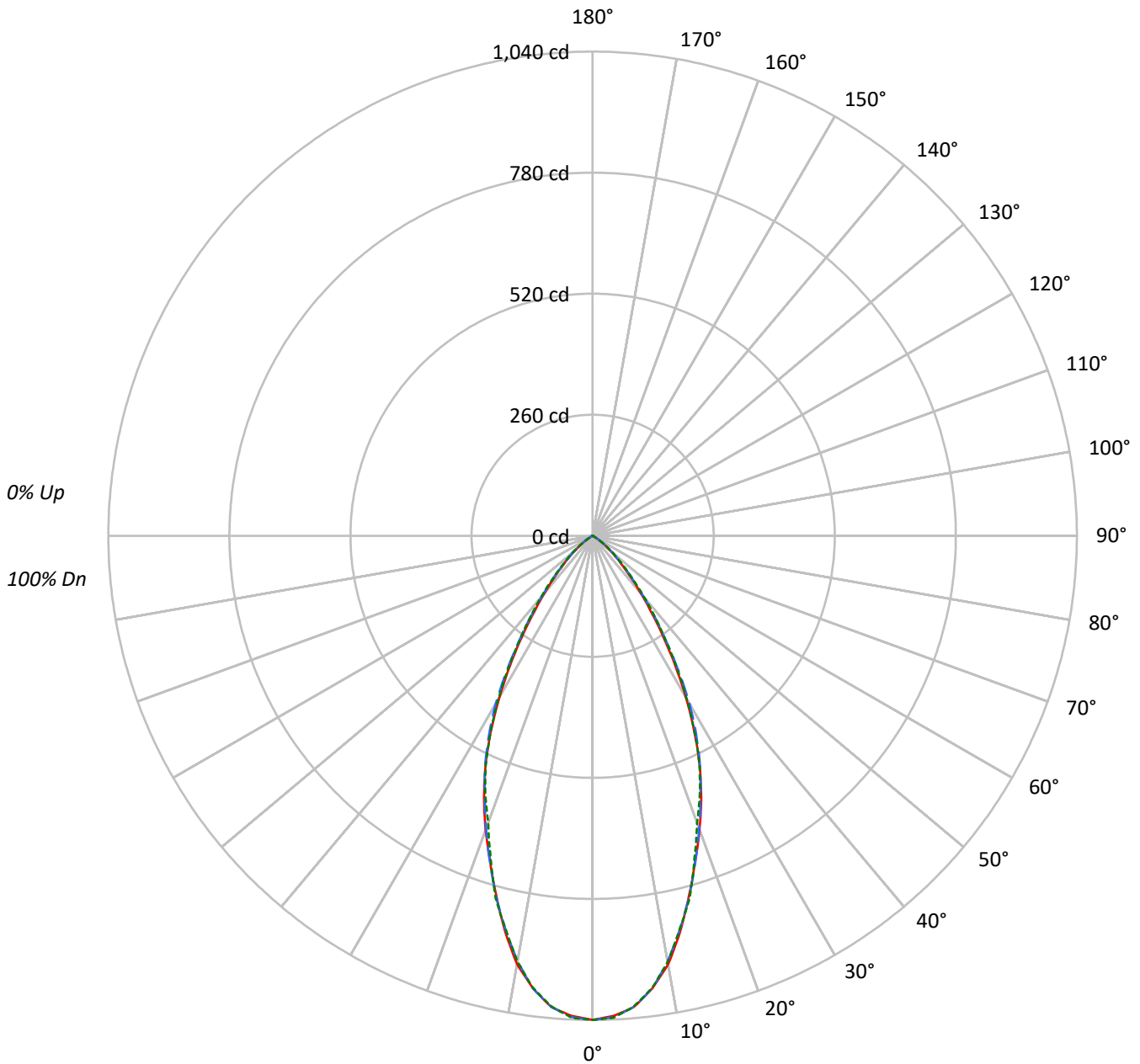
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				20	
RC	80				70				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				100
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93				93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86				86
3	102	95	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80				80
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	79	76	74				74
5	92	83	77	73	90	82	77	72	80	75	72	79	74	71	77	73	70	69				69
6	87	78	72	67	85	77	71	67	76	70	67	74	70	66	73	69	66	64				64
7	83	73	67	63	81	72	67	62	71	66	62	70	65	62	69	65	61	60				60
8	78	69	63	58	77	68	62	58	67	62	58	66	61	58	65	61	58	56				56
9	75	65	59	55	74	64	59	55	63	58	54	62	58	54	62	57	54	53				53
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	50				50

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

	0°	45°	90°
0°	402840	402840	402840
5°	395125	395125	394619
10°	367520	364924	365435
15°	320728	321249	322853
20°	276919	275806	270365
25°	232371	233525	231816
30°	178863	185930	180607
35°	124836	129801	128571
40°	81409	84746	87426
45°	49904	52752	54943
50°	29407	31817	33384
55°	12493	16073	15127
60°	2014	4106	3099
65°	1192	1192	1192
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°	94.2	11.3
10°-20°	222.9	26.6
20°-30°	246.9	29.5
30°-40°	171.8	20.5
40°-50°	77.4	9.2
50°-60°	21.8	2.6
60°-70°	1.5	0.2
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°	564.0	67.4
0°-40°	735.8	88.0
0°-60°	835.0	99.8
0°-90°	836.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	836.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1040	1040	1040	1040	1040	
5°	1016	1020	1016	1012	1015	94
15°	800	804	801	800	805	223
25°	544	548	546	540	542	246
35°	264	272	274	274	272	166
45°	91	94	96	99	100	74
55°	18	21	24	24	22	19
65°	1	1	1	1	1	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°	1040.0	1040.0	1040.0	1040.0	1040.0
2.5°	1032.1	1037.3	1034.7	1034.7	1036.0
5°	1016.2	1020.2	1016.2	1012.3	1014.9
7.5°	980.6	984.5	980.6	977.9	979.3
10°	934.4	931.8	927.8	925.2	929.1
12.5°	869.7	868.4	865.8	864.4	864.4
15°	799.8	803.7	801.1	799.8	805.1
17.5°	732.5	736.4	733.8	729.8	727.2
20°	671.8	673.1	669.1	662.5	655.9
22.5°	609.7	611.1	604.5	601.8	601.8
25°	543.7	547.7	546.4	539.8	542.4
27.5°	472.5	479.1	481.7	473.8	473.8
30°	399.9	405.2	415.7	405.2	403.8
32.5°	328.6	336.5	341.8	340.5	336.5
35°	264.0	271.9	274.5	274.5	271.9
37.5°	205.9	213.8	216.4	219.1	219.1
40°	161.0	165.0	167.6	171.6	172.9
42.5°	121.4	125.4	129.3	132.0	130.7
45°	91.1	93.7	96.3	99.0	100.3
47.5°	68.6	68.6	71.3	73.9	73.9
50°	48.8	51.5	52.8	54.1	55.4
52.5°	33.0	34.3	37.0	38.3	37.0
55°	18.5	21.1	23.8	23.8	22.4
57.5°	7.9	11.9	13.2	13.2	10.6
60°	2.6	5.3	5.3	6.6	4.0
62.5°	1.3	2.6	2.6	2.6	1.3
65°	1.3	1.3	1.3	1.3	1.3
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)