

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 EU2B10WFL558027 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 EU2B10WFL558027 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: 820.5 lumens  
Efficiency: N/A  
Efficacy: 79.7 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

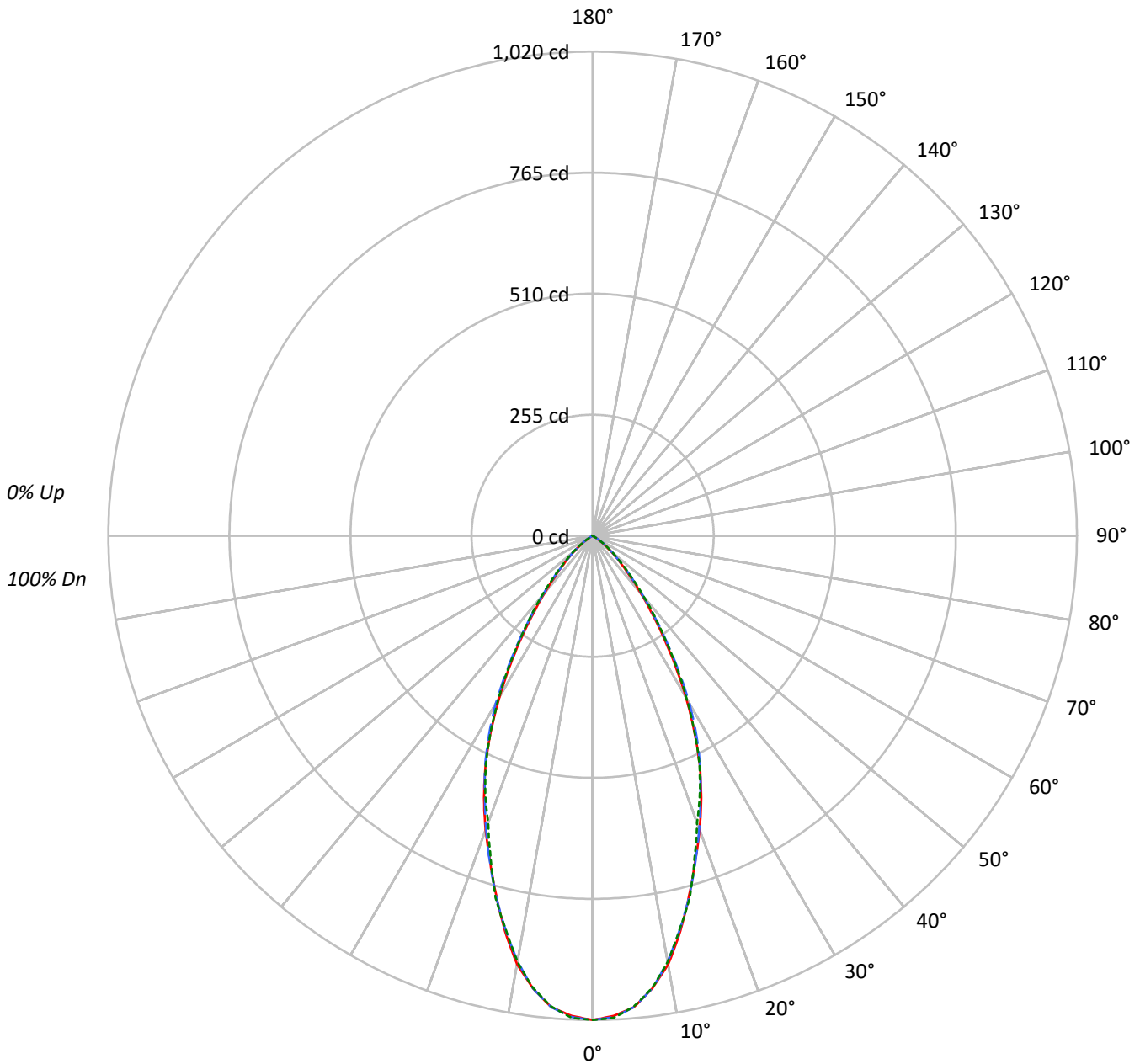
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	395132	395132	395132
5°	387581	387581	387076
10°	360479	357962	358434
15°	314592	315114	316678
20°	271602	270530	265213
25°	227927	229038	227414
30°	175419	182396	177163
35°	122424	127342	126112
40°	79841	83128	85757
45°	48918	51766	53903
50°	28865	31215	32782
55°	12223	15735	14857
60°	2014	4028	3021
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°	92.4	11.3
10°-20°	218.6	26.6
20°-30°	242.2	29.5
30°-40°	168.5	20.5
40°-50°	75.9	9.2
50°-60°	21.4	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°	553.2	67.4
0°-40°	721.7	88.0
0°-60°	819.0	99.8
0°-90°	820.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	820.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1020	1020	1020	1020	1020	
5°	997	1001	997	993	996	92
15°	784	788	786	784	790	219
25°	533	537	536	530	532	242
35°	259	267	269	269	267	163
45°	89	92	94	97	98	72
55°	18	21	23	23	22	18
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°	1020.1	1020.1	1020.1	1020.1	1020.1
2.5°	1012.3	1017.5	1014.9	1014.9	1016.2
5°	996.8	1000.7	996.8	992.9	995.5
7.5°	961.8	965.7	961.8	959.2	960.5
10°	916.5	913.9	910.1	907.5	911.3
12.5°	853.1	851.8	849.2	847.9	847.9
15°	784.5	788.4	785.8	784.5	789.7
17.5°	718.5	722.3	719.8	715.9	713.3
20°	658.9	660.2	656.3	649.9	643.4
22.5°	598.1	599.4	592.9	590.3	590.3
25°	533.3	537.2	535.9	529.5	532.1
27.5°	463.4	469.9	472.5	464.7	464.7
30°	392.2	397.4	407.8	397.4	396.1
32.5°	322.3	330.1	335.3	334.0	330.1
35°	258.9	266.7	269.3	269.3	266.7
37.5°	201.9	209.7	212.3	214.9	214.9
40°	157.9	161.8	164.4	168.3	169.6
42.5°	119.1	123.0	126.9	129.5	128.2
45°	89.3	91.9	94.5	97.1	98.4
47.5°	67.3	67.3	69.9	72.5	72.5
50°	47.9	50.5	51.8	53.1	54.4
52.5°	32.4	33.7	36.2	37.5	36.2
55°	18.1	20.7	23.3	23.3	22.0
57.5°	7.8	11.7	12.9	12.9	10.4
60°	2.6	5.2	5.2	6.5	3.9
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)