

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 EU2B10WFL559727 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: LD2B10D010 EU2B10WFL559727 2LBDSQC\*MB  
Description: 1000 Lumen, 2inch Portfolio LED Downlight  
WIDE FLOOD OPTIC  
SQUARE CAST TRIM WITH MATTE BLACK FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

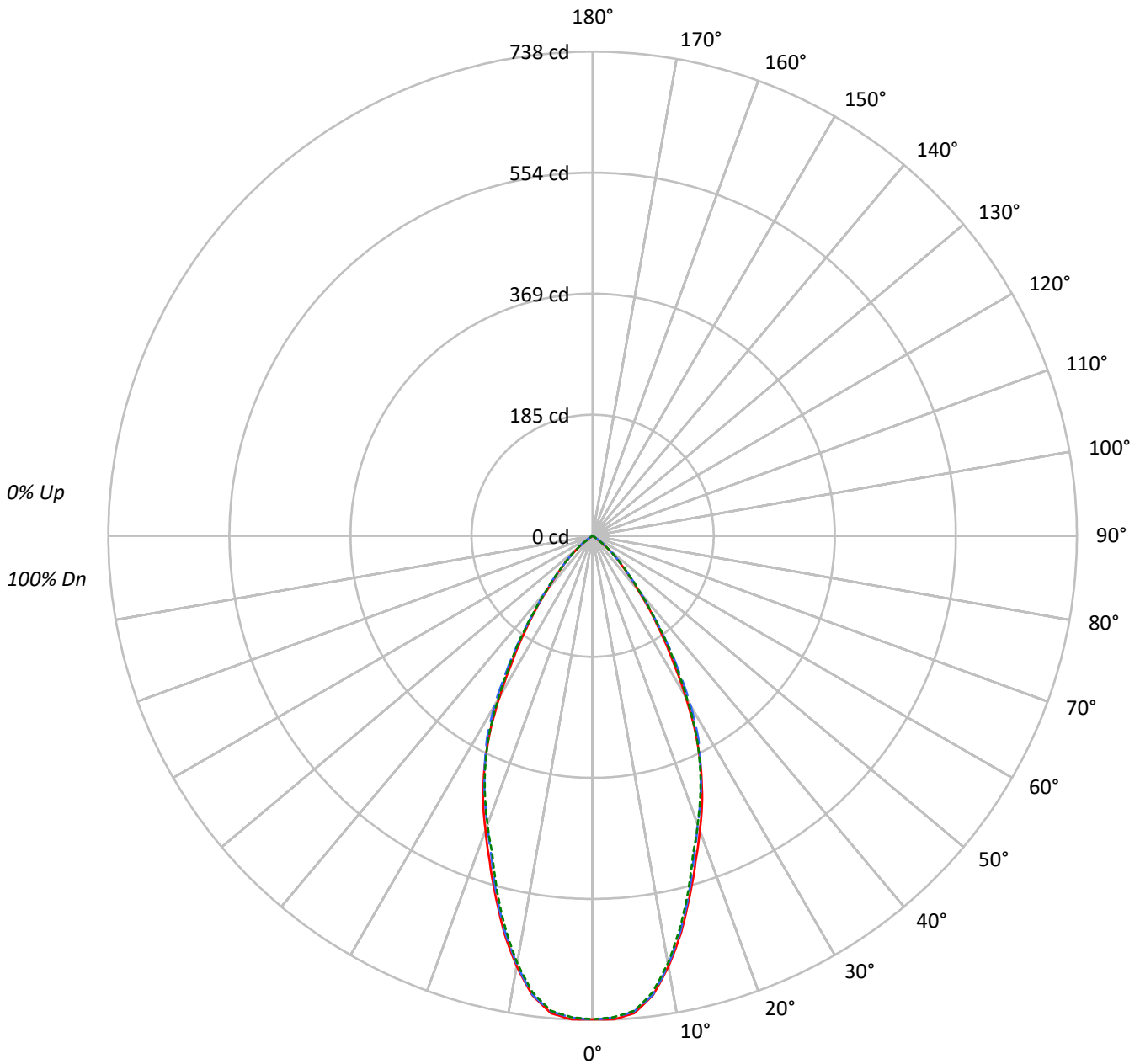
Lumens per Lamp: N/A  
Luminaire Lumens: 581.7 lumens  
Efficiency: N/A  
Efficacy: 56.5 lumens/watt  
Spacing Criteria (0/90/45): 0.78 / 0.77 / 0.83  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 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									
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°	285474	285474	285474
5°	283959	282948	282637
10°	262070	261047	260064
15°	228656	226972	225287
20°	196869	193036	193036
25°	166682	166297	165613
30°	126980	133733	129216
35°	86439	91593	90790
40°	54508	57492	57087
45°	33689	34127	34620
50°	17234	19283	18801
55°	2296	6821	2836
60°	620	620	620
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°	67.4	11.6
10°-20°	157.6	27.1
20°-30°	176.8	30.4
30°-40°	120.1	20.6
40°-50°	50.2	8.6
50°-60°	9.4	1.6
60°-70°	0.1	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°	401.8	69.1
0°-40°	522.0	89.7
0°-60°	581.5	100.0
0°-90°	581.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	581.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	737	737	737	737	737	
5°	730	729	728	726	727	68
15°	570	569	566	561	562	159
25°	390	393	389	388	388	176
35°	183	189	194	190	192	116
45°	62	61	62	63	63	49
55°	3	8	10	8	4	7
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°	737.0	737.0	737.0	737.0	737.0
2.5°	737.9	736.2	735.3	734.5	734.5
5°	730.3	729.4	727.7	726.1	726.9
7.5°	705.8	705.0	705.0	701.6	701.6
10°	666.3	666.3	663.7	663.7	661.2
12.5°	620.8	617.4	617.4	614.9	613.2
15°	570.2	568.6	566.0	561.0	561.8
17.5°	521.4	518.0	513.0	510.4	508.7
20°	477.6	476.7	468.3	466.6	468.3
22.5°	436.3	437.2	430.4	428.7	428.7
25°	390.0	393.4	389.1	388.3	387.5
27.5°	340.3	346.2	348.7	342.8	342.0
30°	283.9	294.0	299.0	293.1	288.9
32.5°	229.1	239.2	244.3	240.1	237.5
35°	182.8	188.7	193.7	189.5	192.0
37.5°	143.2	146.6	148.2	148.2	148.2
40°	107.8	111.2	113.7	114.6	112.9
42.5°	81.7	83.4	85.1	85.9	85.1
45°	61.5	60.6	62.3	63.2	63.2
47.5°	44.6	44.6	45.5	46.3	46.3
50°	28.6	30.3	32.0	31.2	31.2
52.5°	12.6	17.7	21.1	17.7	14.3
55°	3.4	7.6	10.1	7.6	4.2
57.5°	0.8	2.5	3.4	2.5	1.7
60°	0.8	0.8	0.8	0.8	0.8
62.5°	0.8	0.0	0.0	0.0	0.8
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)