

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 EU2B10WFL559050 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 EU2B10WFL559050 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: 735.1 lumens  
Efficiency: N/A  
Efficacy: 71.4 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

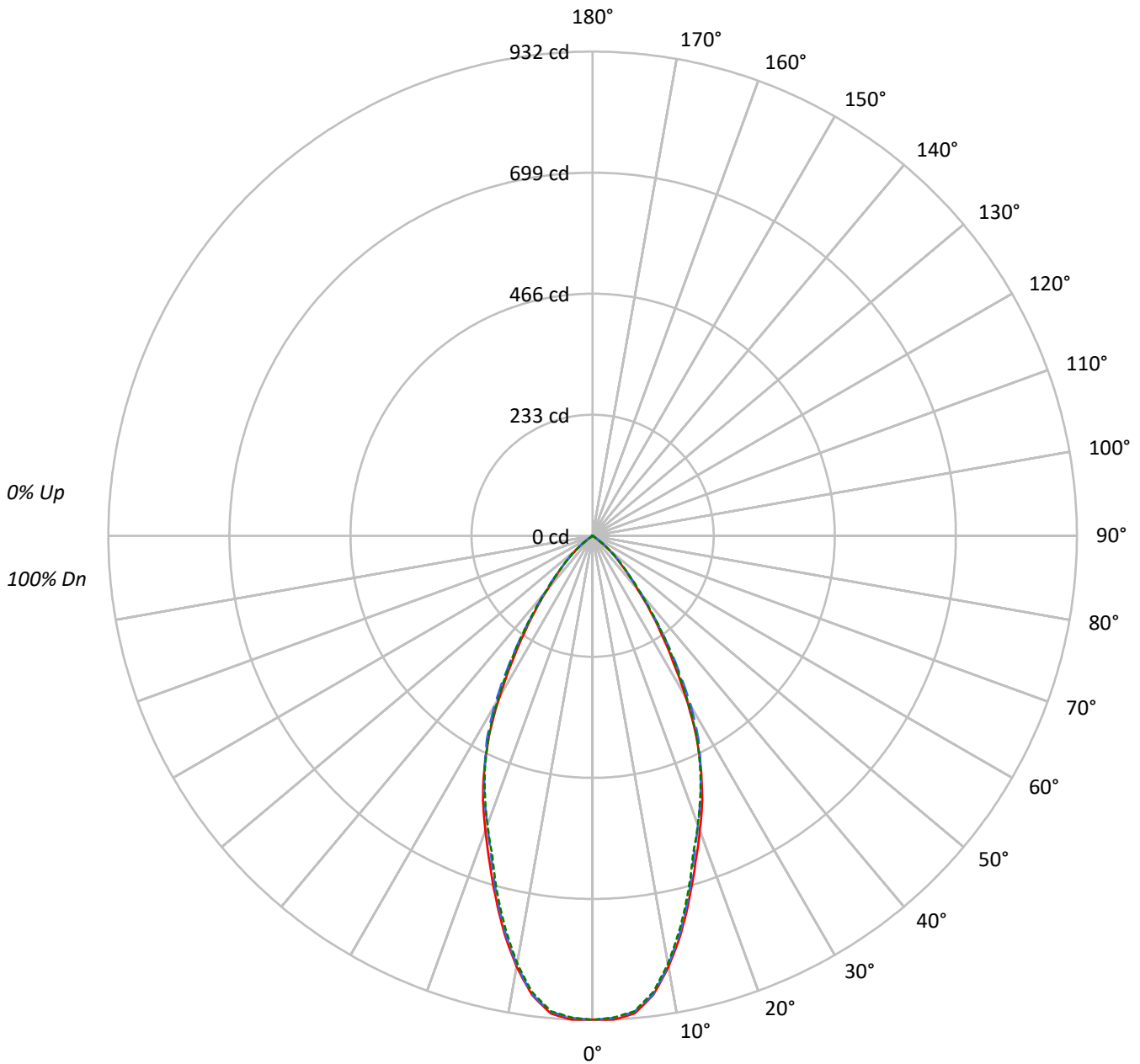
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20					20					20					20					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	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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94					94			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87					87			
3	102	96	91	87	100	95	90	86	92	88	85	89	86	84	87	85	82	81					81			
4	97	90	84	80	95	88	83	79	86	82	78	84	80	77	82	79	77	75					75			
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70					70			
6	87	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65					65			
7	83	74	68	64	82	73	67	63	72	67	63	71	66	63	70	65	62	61					61			
8	79	70	64	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57					57			
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54					54			
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	51					51			

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

	0°	45°	90°
0°	360774	360774	360774
5°	358847	357603	357175
10°	331177	329918	328659
15°	288968	286843	284717
20°	248766	243943	243943
25°	210617	210190	209250
30°	160435	169023	163298
35°	109231	115757	114764
40°	68869	72661	72105
45°	42563	43166	43714
50°	21814	24345	23743
55°	2904	8644	3579
60°	852	852	852
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°	85.2	11.6
10°-20°	199.1	27.1
20°-30°	223.5	30.4
30°-40°	151.8	20.6
40°-50°	63.4	8.6
50°-60°	11.9	1.6
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°	507.8	69.1
0°-40°	659.6	89.7
0°-60°	734.9	100.0
0°-90°	735.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	735.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	931	931	931	931	931	
5°	923	922	920	918	919	85
15°	721	718	715	709	710	201
25°	493	497	492	491	490	223
35°	231	238	245	240	243	146
45°	78	77	79	80	80	62
55°	4	10	13	10	5	9
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°	931.4	931.4	931.4	931.4	931.4
2.5°	932.4	930.3	929.2	928.2	928.2
5°	922.9	921.8	919.7	917.5	918.6
7.5°	892.0	890.9	890.9	886.7	886.7
10°	842.0	842.0	838.8	838.8	835.6
12.5°	784.5	780.2	780.2	777.0	774.9
15°	720.6	718.5	715.3	708.9	710.0
17.5°	658.9	654.6	648.2	645.0	642.9
20°	603.5	602.5	591.8	589.7	591.8
22.5°	551.4	552.4	543.9	541.8	541.8
25°	492.8	497.1	491.8	490.7	489.6
27.5°	430.0	437.5	440.7	433.2	432.2
30°	358.7	371.5	377.9	370.4	365.1
32.5°	289.5	302.3	308.7	303.4	300.2
35°	231.0	238.4	244.8	239.5	242.7
37.5°	181.0	185.2	187.3	187.3	187.3
40°	136.2	140.5	143.7	144.8	142.6
42.5°	103.2	105.4	107.5	108.6	107.5
45°	77.7	76.6	78.8	79.8	79.8
47.5°	56.4	56.4	57.5	58.5	58.5
50°	36.2	38.3	40.4	39.4	39.4
52.5°	16.0	22.4	26.6	22.4	18.1
55°	4.3	9.6	12.8	9.6	5.3
57.5°	1.1	3.2	4.3	3.2	2.1
60°	1.1	1.1	1.1	1.1	1.1
62.5°	1.1	0.0	0.0	0.0	1.1
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)