

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: P224986

Luminaire Tested: **LD2B20D010 EU2B20FL408050 2LBDL\*LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P224986  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (152)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B20D010 EU2B20FL408050 2LBDL\*LI  
Description: 2000 Lumen, 2inch Portfolio LED Downlight  
FLOOD OPTIC  
LENSED SPUN ROUND TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1836.4 lumens  
Efficiency: N/A  
Efficacy: 87.9 lumens/watt  
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.58  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

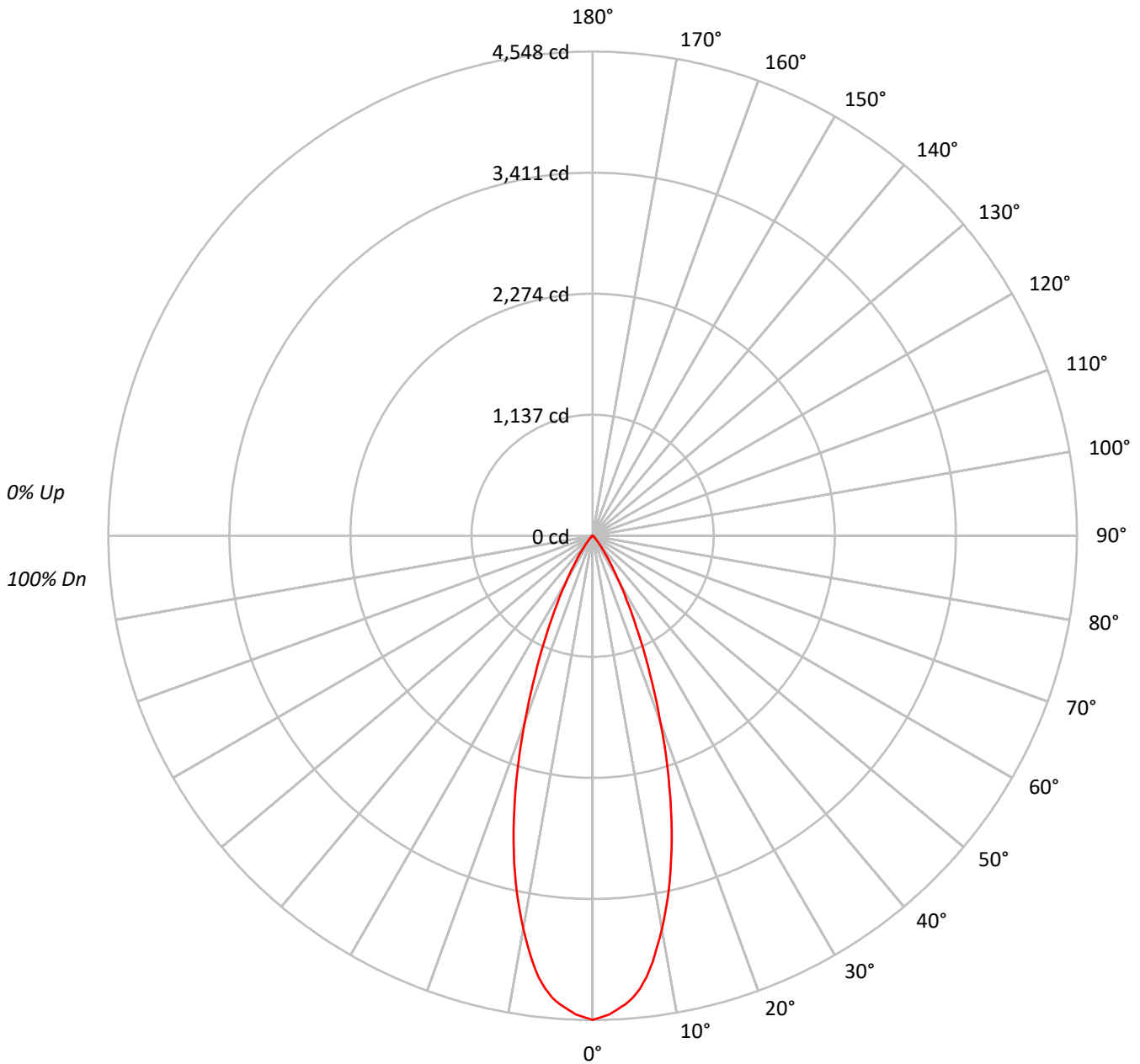
Input Watts (W): 20.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	114	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96			96
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91			91
3	106	101	96	93	104	99	95	92	97	94	91	94	92	90	92	90	88	87			87
4	102	96	91	88	100	95	90	87	93	89	86	91	88	85	89	86	84	83			83
5	98	91	86	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79			79
6	94	87	82	79	93	86	82	79	85	81	78	84	80	78	83	79	77	76			76
7	91	83	79	75	90	83	78	75	82	78	75	81	77	74	80	76	74	73			73
8	88	80	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	70			70
9	85	77	72	69	84	76	72	69	76	71	69	75	71	68	74	71	68	67			67
10	82	74	69	66	81	74	69	66	73	69	66	72	68	66	72	68	66	65			65

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

	0°
0°	1761572
5°	1692830
10°	1473618
15°	1150698
20°	765259
25°	438202
30°	217865
35°	100152
40°	40148
45°	18351
50°	8497
55°	4795
60°	2711
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	396.3	21.6
10°-20°	778.1	42.4
20°-30°	481.6	26.2
30°-40°	144.1	7.8
40°-50°	28.9	1.6
50°-60°	7.0	0.4
60°-70°	0.4	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°	1655.9	90.2
0°-40°	1800.1	98.0
0°-60°	1836.0	100.0
0°-90°	1836.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1836.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4548	
5°	4354	396
15°	2870	778
25°	1025	482
35°	212	144
45°	34	29
55°	7	7
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4547.8
1°	4523.1
2°	4500.2
3°	4454.3
4°	4411.9
5°	4353.7
6°	4274.3
7°	4173.7
8°	4044.9
9°	3898.4
10°	3746.6
11°	3589.6
12°	3421.9
13°	3247.2
14°	3060.1
15°	2869.5
17.5°	2366.6
20°	1856.5
22.5°	1404.8
25°	1025.3
27.5°	720.0
30°	487.1
32.5°	321.2
35°	211.8
37.5°	132.4
40°	79.4
42.5°	51.2
45°	33.5
47.5°	21.2
50°	14.1
52.5°	10.6
55°	7.1
57.5°	5.3
60°	3.5
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0



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**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0



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— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)