

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: P222768

Luminaire Tested: **LD2B20D010 EU2B20NFL259030 2LBDC\*MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P222768  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (155)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B20D010 EU2B20NFL259030 2LBDC\*MB  
Description: 2000 Lumen, 2inch Portfolio LED Downlight  
NARROW FLOOD OPTIC  
CAST ROUND TRIM WITH MATTE BLACK FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1468.1 lumens  
Efficiency: N/A  
Efficacy: 70.2 lumens/watt  
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.35  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

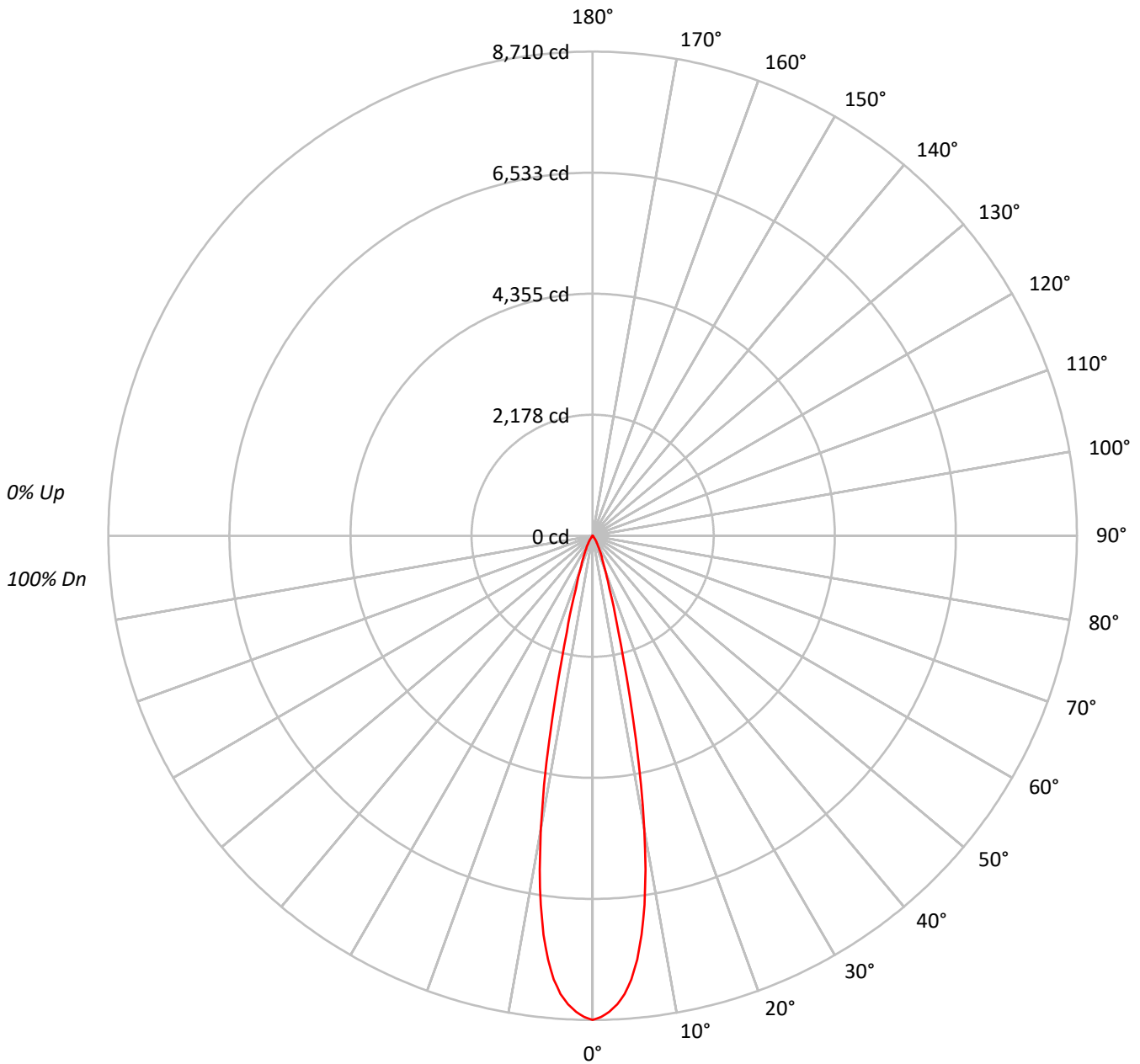
Input Watts (W): 20.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P222768

CATALOG NUMBER: LD2B20D010 EU2B20NFL259030 2LBDC\*MB

### Luminous Intensity Polar Plot





TEST NUMBER: P222768

CATALOG NUMBER: LD2B20D010 EU2B20NFL259030 2LBDC\*MB

**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	99	97
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97	97	96	95
2	112	109	106	104	110	107	104	102	104	102	100	101	99	98	98	97	96	95	95	93	92
3	109	105	101	99	107	103	100	98	101	98	96	99	97	95	96	95	93	92	92	91	90
4	106	101	97	95	104	100	97	94	98	95	93	96	94	92	95	93	91	90	89	88	86
5	103	98	94	91	102	97	94	91	95	92	90	94	91	89	93	90	89	88	87	86	84
6	101	95	91	89	99	94	91	88	93	90	88	92	89	87	91	88	87	86	85	84	82
7	98	92	89	86	97	92	88	86	91	88	85	90	87	85	89	87	85	84	83	82	80
8	96	90	86	84	95	90	86	84	89	86	83	88	85	83	87	85	83	82	81	80	79
9	94	88	84	82	93	88	84	82	87	84	82	86	83	81	85	83	81	80	79	79	79
10	92	86	82	80	91	86	82	80	85	82	80	84	82	80	84	81	79	79	79	79	79

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

	0°
0°	3373667
5°	3114960
10°	2108439
15°	717327
20°	263481
25°	139671
30°	71787
35°	33526
40°	10972
45°	5533
50°	2591
55°	945
60°	1085
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P222768

CATALOG NUMBER: LD2B20D010 EU2B20NFL259030 2LBDC\*MB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	681.5	46.4
10°-20°	573.0	39.0
20°-30°	157.2	10.7
30°-40°	45.9	3.1
40°-50°	8.5	0.6
50°-60°	1.9	0.1
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°	1411.7	96.2
0°-40°	1457.5	99.3
0°-60°	1467.9	100.0
0°-90°	1468.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1468.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8710	
5°	8011	681
15°	1789	573
25°	327	157
35°	71	46
45°	10	8
55°	1	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P222768

CATALOG NUMBER: LD2B20D010 EU2B20NFL259030 2LBDC\*MB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	8709.7
1°	8659.1
2°	8569.4
3°	8440.7
4°	8264.3
5°	8011.2
6°	7665.6
7°	7233.2
8°	6705.4
9°	6082.2
10°	5360.6
11°	4569.6
12°	3746.8
13°	2961.6
14°	2292.0
15°	1788.8
17.5°	1009.4
20°	639.2
22.5°	455.5
25°	326.8
27.5°	231.4
30°	160.5
32.5°	112.8
35°	70.9
37.5°	28.9
40°	21.7
42.5°	15.9
45°	10.1
47.5°	5.8
50°	4.3
52.5°	2.9
55°	1.4
57.5°	1.4
60°	1.4
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



TEST NUMBER: P222768

CATALOG NUMBER: LD2B20D010 EU2B20NFL259030 2LBDC\*MB

**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)