

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: P315196

Luminaire Tested: **LDA2B20NFL9730D010 PINW1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P315196  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1811-033-2)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B20NFL9730D010 PINW1MW  
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj PinHole, Black oculus, matte white finish  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1359.8 lumens  
Efficiency: N/A  
Efficacy: 66.0 lumens/watt  
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.39  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

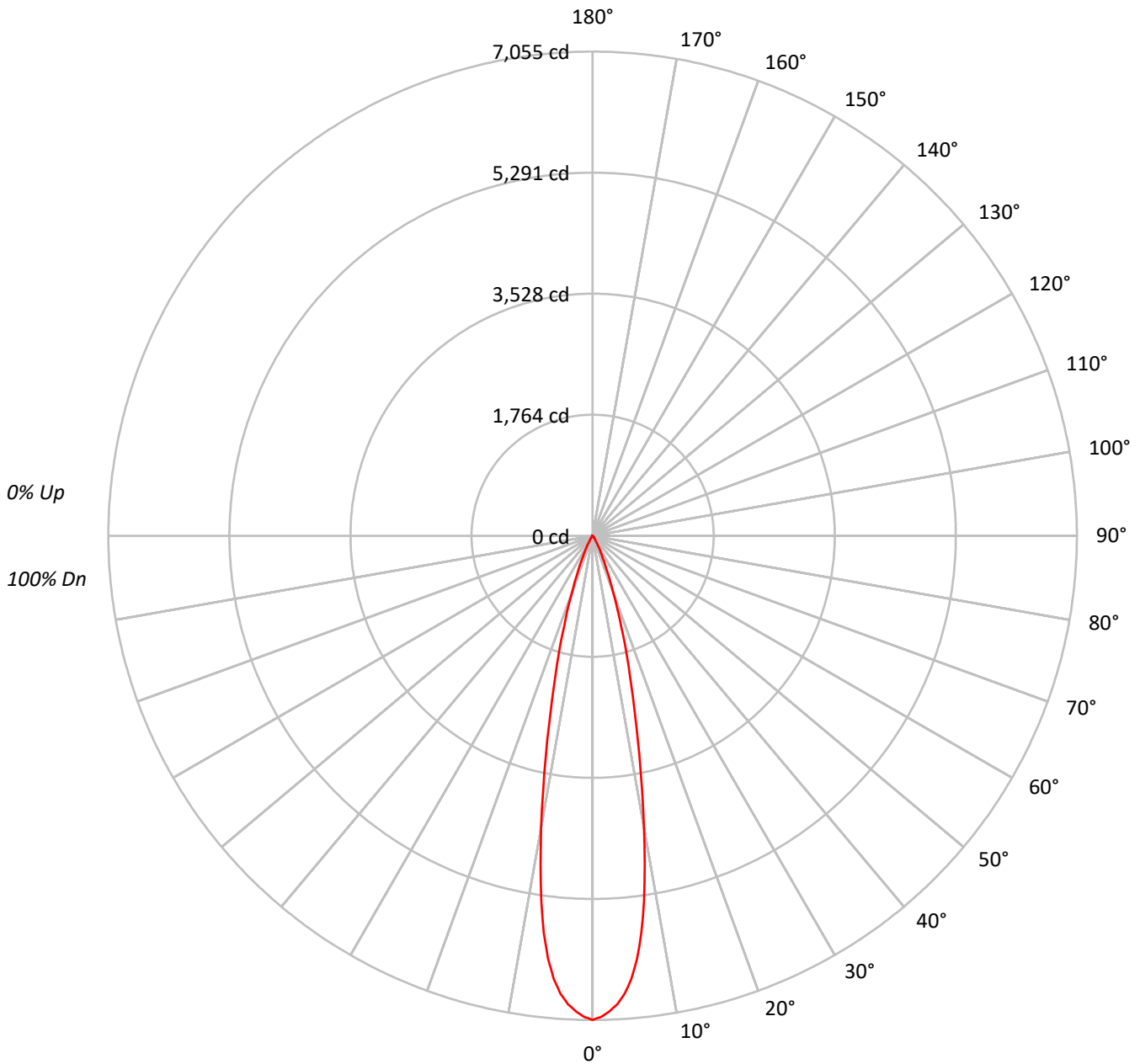
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P315196

CATALOG NUMBER: LDA2B20NFL9730D010 PINW1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P315196

CATALOG NUMBER: LDA2B20NFL9730D010 PINW1MW

**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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	115	113	111	110	113	111	109	108	107	106	105	103	102	102	100	99	99	97
2	112	108	105	103	110	107	104	102	103	101	100	101	99	98	98	97	96	94
3	108	104	100	98	107	103	99	97	100	98	95	98	96	94	96	94	93	91
4	105	100	96	94	104	99	96	93	97	94	92	95	93	91	94	92	90	89
5	102	97	93	90	101	96	92	90	94	91	89	93	90	88	92	89	87	86
6	100	94	90	87	98	93	89	87	92	89	86	91	88	86	89	87	85	84
7	97	91	87	84	96	90	87	84	89	86	84	88	85	83	87	85	83	82
8	95	88	85	82	94	88	84	82	87	84	81	86	83	81	85	83	81	80
9	92	86	82	80	92	86	82	80	85	82	79	84	81	79	84	81	79	78
10	90	84	80	78	90	84	80	78	83	80	78	82	79	77	82	79	77	76

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

	0°
0°	3480618
5°	3209989
10°	2163100
15°	1066530
20°	455564
25°	179096
30°	70527
35°	30897
40°	14877
45°	7187
50°	3914
55°	2236
60°	1283
65°	700
70°	865
75°	0
80°	0
85°	0



TEST NUMBER: P315196

CATALOG NUMBER: LDA2B20NFL9730D010 PINW1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	549.0	40.4
10°-20°	591.3	43.5
20°-30°	170.7	12.6
30°-40°	36.0	2.7
40°-50°	8.9	0.7
50°-60°	2.5	0.2
60°-70°	0.8	0.1
70°-80°	0.4	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°	1311.1	96.4
0°-40°	1347.1	99.1
0°-60°	1358.5	99.9
0°-90°	1359.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1359.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7055	
5°	6482	549
15°	2088	591
25°	329	171
35°	51	36
45°	10	9
55°	3	3
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P315196

CATALOG NUMBER: LDA2B20NFL9730D010 PINW1MW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	7054.9
1°	7010.6
2°	6935.6
3°	6834.3
4°	6690.6
5°	6481.6
6°	6199.4
7°	5831.3
8°	5378.5
9°	4850.8
10°	4317.8
11°	3779.2
12°	3270.6
13°	2819.1
14°	2422.2
15°	2088.1
17.5°	1380.1
20°	867.7
22.5°	533.6
25°	329.0
27.5°	200.7
30°	123.8
32.5°	78.2
35°	51.3
37.5°	34.0
40°	23.1
42.5°	16.0
45°	10.3
47.5°	6.4
50°	5.1
52.5°	3.8
55°	2.6
57.5°	1.9
60°	1.3
62.5°	1.3
65°	0.6
67.5°	0.6
70°	0.6
72.5°	0.6
75°	0.0
77.5°	0.6
80°	0.0
82.5°	0.0



TEST NUMBER: P315196

CATALOG NUMBER: LDA2B20NFL9730D010 PINW1MW

**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)