

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: P315185

Luminaire Tested: **LDA2B20NFL9050D010 PIN1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P315185  
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: LDA2B20NFL9050D010 PIN1MMS  
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC  
AND 2in Adj PinHole, Black oculus, matte metallic silver finish  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1596.4 lumens  
Efficiency: N/A  
Efficacy: 77.5 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

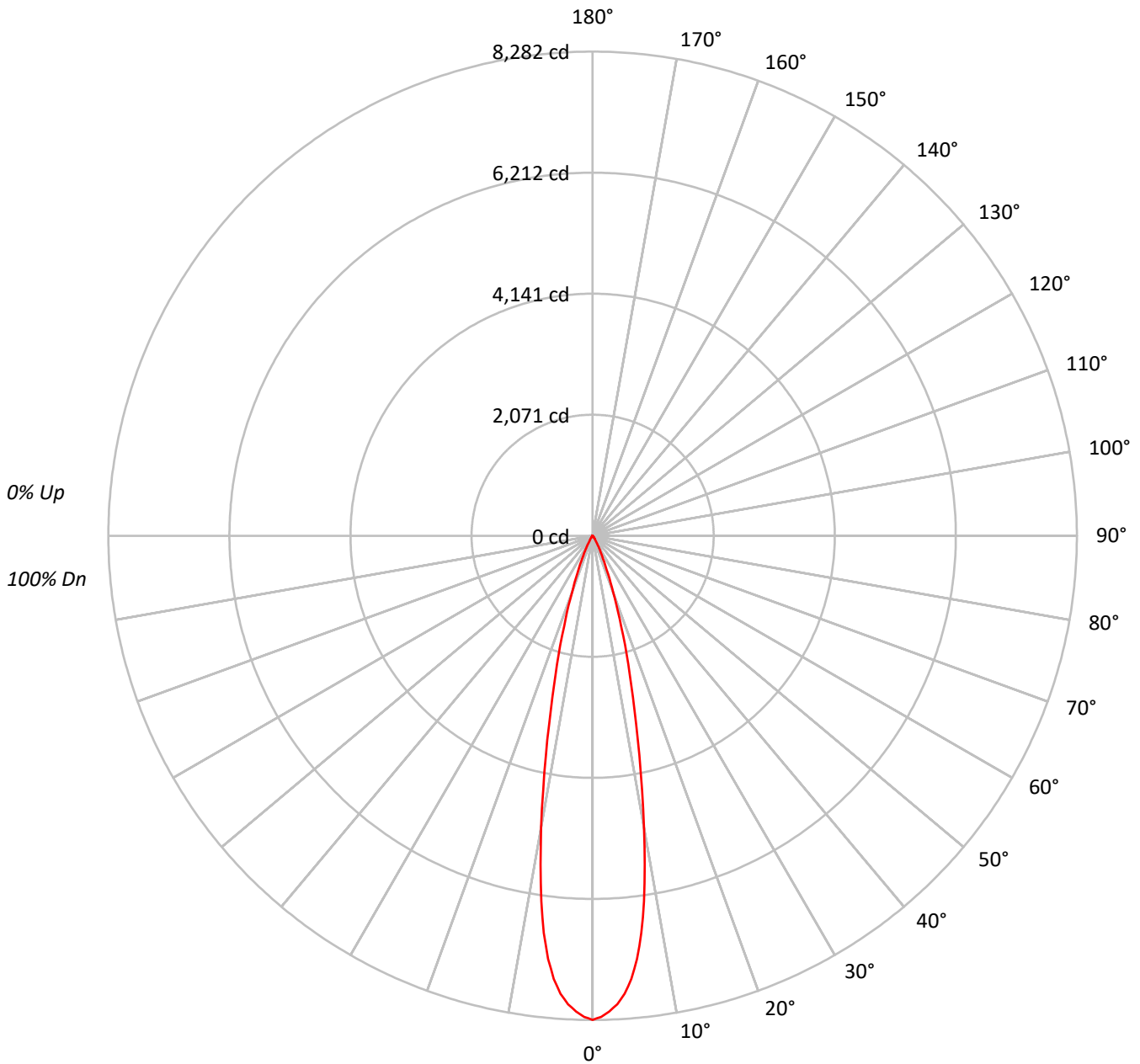
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P315185

CATALOG NUMBER: LDA2B20NFL9050D010 PIN1MMS

### Luminous Intensity Polar Plot





TEST NUMBER: P315185

CATALOG NUMBER: LDA2B20NFL9050D010 PIN1MMS

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

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

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

	0°
0°	4086170
5°	3768429
10°	2539431
15°	1252040
20°	534790
25°	210234
30°	82775
35°	36257
40°	17453
45°	8373
50°	4605
55°	2580
60°	1480
65°	934
70°	1154
75°	0
80°	0
85°	0



TEST NUMBER: P315185

CATALOG NUMBER: LDA2B20NFL9050D010 PIN1MMS

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	644.6	40.4
10°-20°	694.2	43.5
20°-30°	200.4	12.6
30°-40°	42.3	2.6
40°-50°	10.4	0.7
50°-60°	3.0	0.2
60°-70°	1.0	0.1
70°-80°	0.5	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°	1539.2	96.4
0°-40°	1581.4	99.1
0°-60°	1594.8	99.9
0°-90°	1596.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1596.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8282	
5°	7609	645
15°	2451	694
25°	386	200
35°	60	42
45°	12	10
55°	3	3
65°	1	1
75°	0	1
85°	0	0
90°	0	



TEST NUMBER: P315185

CATALOG NUMBER: LDA2B20NFL9050D010 PIN1MMS

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	8282.3
1°	8230.3
2°	8142.2
3°	8023.3
4°	7854.6
5°	7609.2
6°	7277.9
7°	6845.8
8°	6314.3
9°	5694.7
10°	5069.0
11°	4436.6
12°	3839.6
13°	3309.6
14°	2843.6
15°	2451.3
17.5°	1620.2
20°	1018.6
22.5°	626.4
25°	386.2
27.5°	235.6
30°	145.3
32.5°	91.8
35°	60.2
37.5°	39.9
40°	27.1
42.5°	18.8
45°	12.0
47.5°	7.5
50°	6.0
52.5°	4.5
55°	3.0
57.5°	2.3
60°	1.5
62.5°	1.5
65°	0.8
67.5°	0.8
70°	0.8
72.5°	0.8
75°	0.0
77.5°	0.8
80°	0.0
82.5°	0.0



TEST NUMBER: P315185

CATALOG NUMBER: LDA2B20NFL9050D010 PIN1MMS

**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)