

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: P314805

Luminaire Tested: **LDA2B15SP9027D010 PIN1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P314805  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-8)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B15SP9027D010 PIN1MW  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in  
Adj PinHole, Black oculus, matte white finish  
Light Source: -  
Ballast/Driver: -

**Summary**

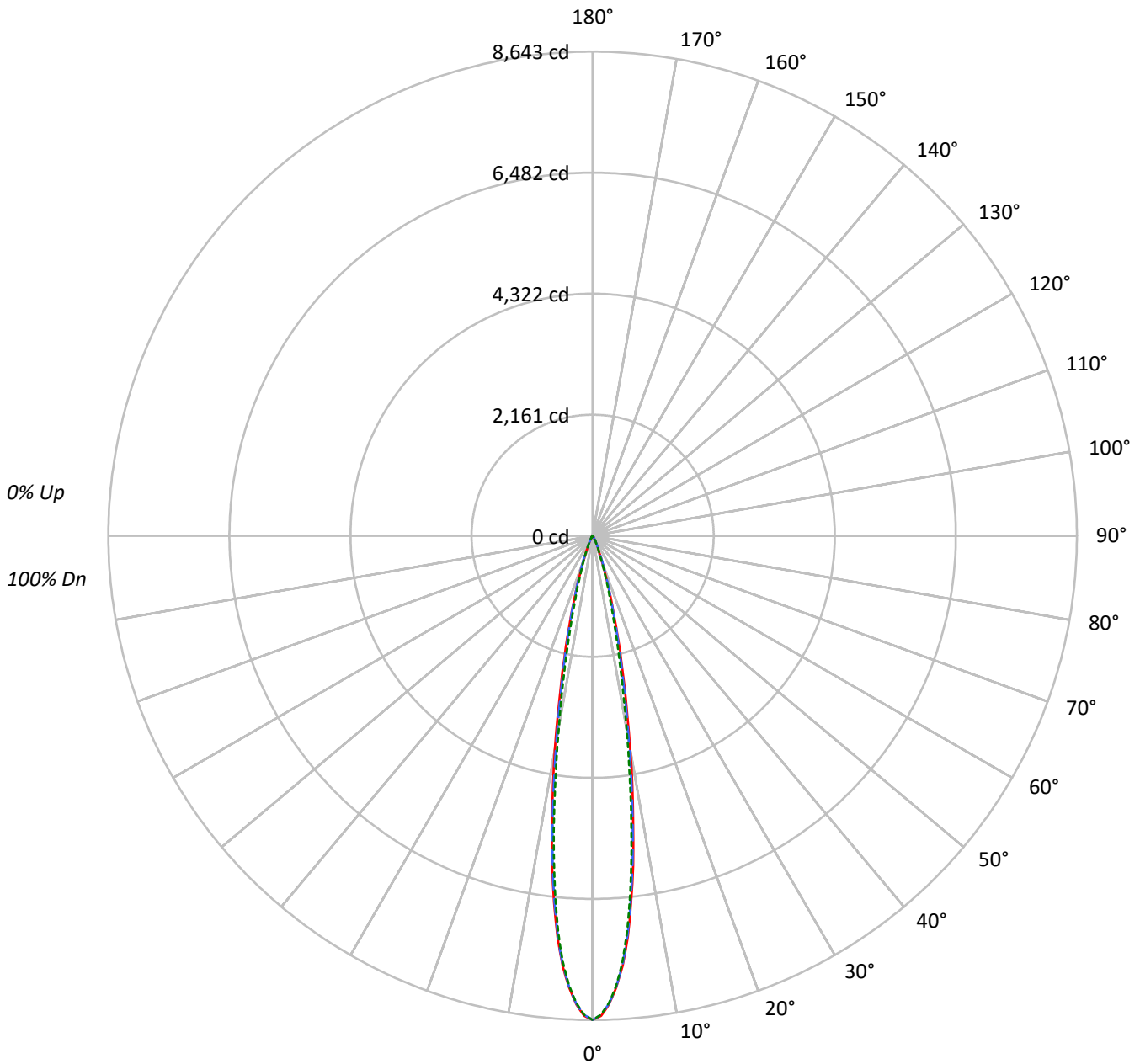
Lumens per Lamp: N/A  
Luminaire Lumens: 1113.0 lumens  
Efficiency: N/A  
Efficacy: 78.9 lumens/watt  
Spacing Criteria (0/90/45): 0.32 / 0.3 / 0.32  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.1  
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: P314805  
CATALOG NUMBER: LDA2B15SP9027D010 PIN1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P314805

CATALOG NUMBER: LDA2B15SP9027D010 PIN1MW

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

RF	20									20									20									20									
RC	80									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	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97				97															
2	112	109	106	104	110	107	105	103	104	102	101	101	100	98	99	98	96	95				95															
3	109	105	102	99	107	104	101	98	101	99	97	99	97	95	97	95	94	93				93															
4	106	102	98	96	105	101	97	95	99	96	94	97	95	93	95	93	92	91				91															
5	104	99	95	92	103	98	95	92	96	94	91	95	92	91	94	92	90	89				89															
6	101	96	92	90	100	95	92	90	94	91	89	93	90	89	92	90	88	87				87															
7	99	94	90	88	98	93	90	87	92	89	87	91	89	87	90	88	86	85				85															
8	97	92	88	86	96	91	88	85	90	87	85	89	87	85	89	86	85	84				84															
9	95	90	86	84	95	89	86	84	88	86	83	88	85	83	87	85	83	82				82															
10	93	88	84	82	93	87	84	82	87	84	82	86	84	82	86	83	82	81				81															

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

	0°	45°	90°
0°	4264225	4264225	4264225
5°	3562555	3545518	3503521
10°	1940969	1865372	1745990
15°	769520	749906	643769
20°	258575	276320	228333
25°	89711	96951	86118
30°	32814	35833	35093
35°	21140	24694	18731
40°	11077	13203	13654
45°	10187	7884	7396
50°	6064	4068	3070
55°	0	0	0
60°	3947	3947	1283
65°	3035	817	0
70°	0	2885	3750
75°	0	6290	0
80°	0	0	0
85°	0	3962	0



TEST NUMBER: P314805

CATALOG NUMBER: LDA2B15SP9027D010 PIN1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	565.1	50.8
10°-20°	420.6	37.8
20°-30°	93.0	8.4
30°-40°	20.7	1.9
40°-50°	8.5	0.8
50°-60°	1.4	0.1
60°-70°	1.5	0.1
70°-80°	1.1	0.1
80°-90°	1.1	0.1
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°	1078.8	96.9
0°-40°	1099.4	98.8
0°-60°	1109.3	99.7
0°-90°	1113.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1113.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8643	8643	8643	8643	8643	
5°	7194	7164	7159	7132	7074	573
15°	1507	1502	1468	1331	1260	443
25°	165	184	178	165	158	90
35°	35	35	41	33	31	20
45°	15	12	11	11	11	9
55°	0	0	0	0	0	2
65°	3	1	1	0	0	3
75°	0	0	3	0	0	1
85°	0	1	1	2	0	0
90°	0	0	0	0	0	



TEST NUMBER: P314805

CATALOG NUMBER: LDA2B15SP9027D010 PIN1MW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8643.2	8643.2	8643.2	8643.2	8643.2
1°	8572.4	8537.3	8554.5	8564.4	8549.9
2°	8372.4	8330.1	8357.2	8359.9	8345.3
3°	8074.6	8055.4	8064.0	8067.3	8038.2
4°	7693.3	7665.5	7671.4	7664.2	7628.4
5°	7193.5	7163.7	7159.1	7131.9	7074.3
6°	6582.5	6565.3	6534.2	6487.9	6411.1
7°	5927.8	5913.9	5860.3	5776.9	5688.2
8°	5210.3	5210.3	5132.8	5017.6	4916.4
9°	4531.1	4505.9	4407.3	4268.3	4170.3
10°	3874.4	3840.7	3723.5	3582.5	3485.2
11°	3252.9	3217.1	3104.6	2960.3	2870.3
12°	2716.0	2696.8	2609.4	2450.6	2360.5
13°	2262.6	2237.4	2160.6	2010.4	1933.6
14°	1867.4	1835.6	1774.0	1636.4	1561.6
15°	1506.6	1502.0	1468.2	1331.2	1260.4
16°	1231.2	1228.6	1196.8	1063.1	1034.0
17°	988.3	1002.2	992.9	869.8	836.7
18°	769.2	797.0	803.6	692.4	659.3
19°	618.9	645.4	656.7	559.4	531.6
20°	492.5	517.7	526.3	453.4	434.9
22.5°	279.3	313.1	314.4	276.7	257.5
25°	164.8	184.0	178.1	164.8	158.2
26°	138.3	156.9	147.6	143.6	138.3
27°	116.5	129.1	121.8	115.2	119.8
28°	96.6	105.3	98.0	100.0	92.7
29°	76.8	91.4	80.8	82.7	76.8
30°	57.6	70.8	62.9	66.2	61.6
32.5°	43.0	47.0	41.7	47.0	47.0
35°	35.1	35.1	41.0	33.1	31.1
37.5°	15.9	12.6	13.9	11.3	13.2
40°	17.2	19.2	20.5	17.2	21.2
42.5°	11.9	15.9	15.9	10.6	18.5
45°	14.6	11.9	11.3	11.3	10.6
47.5°	6.6	4.6	5.3	6.0	9.3
50°	7.9	3.3	5.3	7.9	4.0
52.5°	2.6	0.0	3.3	0.0	1.3
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.7	1.3	0.0
60°	4.0	4.6	4.0	2.6	1.3
62.5°	6.6	1.3	2.0	2.6	0.0
65°	2.6	1.3	0.7	0.0	0.0
67.5°	0.0	0.0	2.0	0.0	0.0



TEST NUMBER: P314805

CATALOG NUMBER: LDA2B15SP9027D010 PIN1MW

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	3.3	0.0	0.0
77.5°	1.3	0.0	2.6	0.0	0.0
80°	0.0	1.3	0.0	0.0	0.0
82.5°	0.0	0.0	3.3	2.6	0.0
85°	0.0	0.7	0.7	2.0	0.0
87.5°	0.0	2.0	2.6	0.7	1.3
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°    - - 45°-225°    - - - - 90°-270°







70°	0.0	0.0	2.0	1.3	2.6
72.5°	0.0	0.7	2.6	4.0	1.3



(END OF REPORT)