

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: P314800

Luminaire Tested: **LDA2B15SP8050D010 PIN1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P314800  
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: LDA2B15SP8050D010 PIN1MMS  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj PinHole, Black oculus, matte metallic silver finish  
Light Source: -  
Ballast/Driver: -

**Summary**

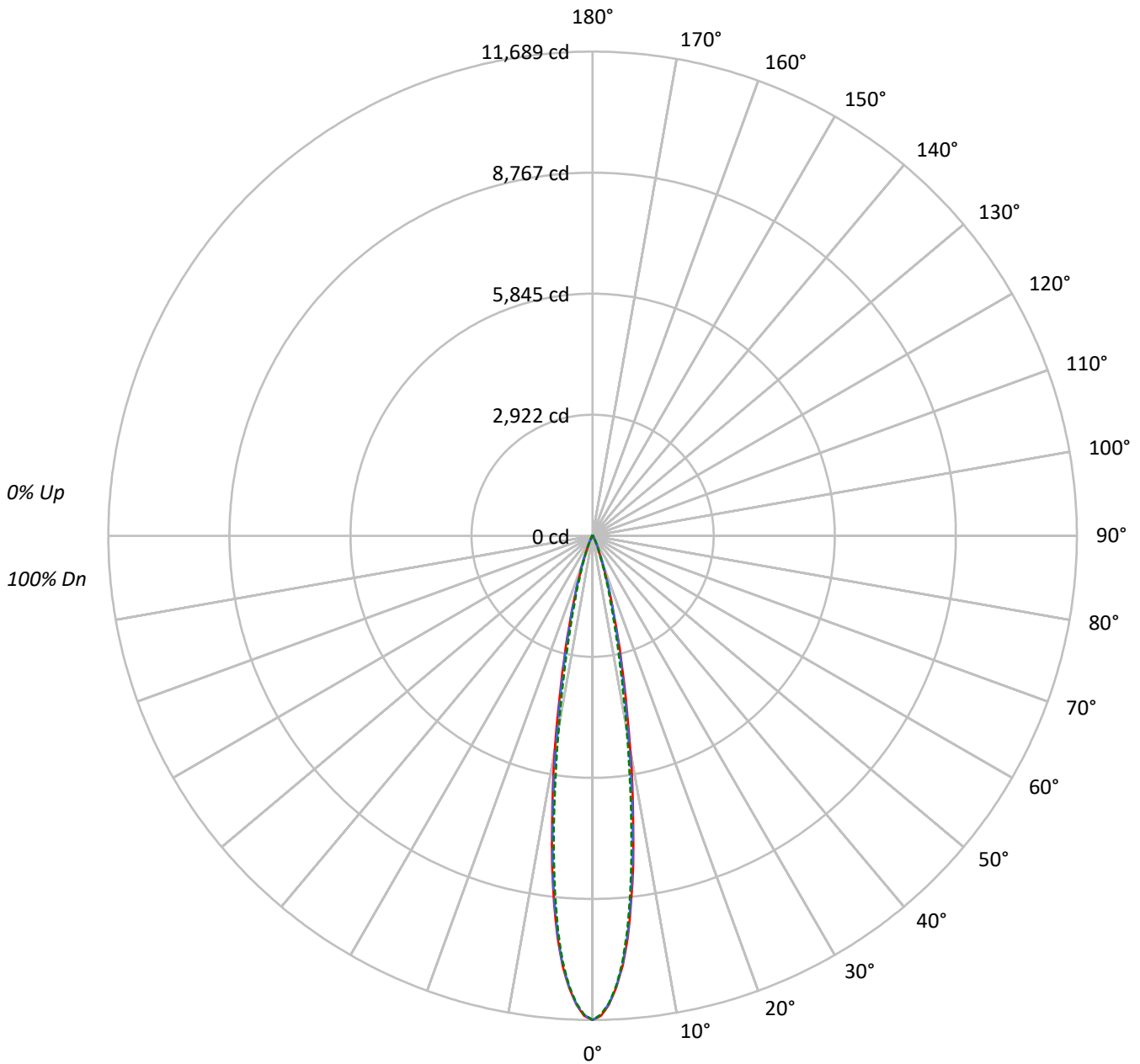
Lumens per Lamp: N/A  
Luminaire Lumens: 1505.3 lumens  
Efficiency: N/A  
Efficacy: 106.8 lumens/watt  
Spacing Criteria (0/90/45): 0.32 / 0.3 / 0.32  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (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



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### Luminous Intensity Polar Plot





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**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	93	91	95	92	91	94	92	90	89				89															
6	101	96	92	90	100	95	92	90	94	91	89	93	90	88	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°	5766955	5766955	5766955
5°	4818004	4794975	4738220
10°	2624997	2522748	2361285
15°	1040736	1014176	870600
20°	349719	373660	308819
25°	121339	131083	116494
30°	44378	48423	47455
35°	28548	33427	25356
40°	15006	17904	18419
45°	13745	10605	9977
50°	8213	5526	4145
55°	0	0	0
60°	5328	5328	1776
65°	4203	1051	0
70°	0	3895	5193
75°	0	8578	0
80°	0	0	0
85°	0	5095	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	764.3	50.8
10°-20°	568.9	37.8
20°-30°	125.8	8.4
30°-40°	28.0	1.9
40°-50°	11.4	0.8
50°-60°	1.9	0.1
60°-70°	2.0	0.1
70°-80°	1.6	0.1
80°-90°	1.5	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°	1458.9	96.9
0°-40°	1486.9	98.8
0°-60°	1500.2	99.7
0°-90°	1505.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1505.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11689	11689	11689	11689	11689	
5°	9728	9688	9682	9645	9567	776
15°	2038	2031	1986	1800	1704	599
25°	223	249	241	223	214	121
35°	47	47	56	45	42	27
45°	20	16	15	15	14	12
55°	0	0	0	0	0	3
65°	4	2	1	0	0	4
75°	0	0	4	0	0	1
85°	0	1	1	3	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11689.1	11689.1	11689.1	11689.1	11689.1
1°	11593.3	11545.8	11569.1	11582.5	11562.8
2°	11322.9	11265.6	11302.3	11305.9	11286.2
3°	10920.1	10894.1	10905.7	10910.2	10870.8
4°	10404.4	10366.8	10374.9	10365.0	10316.7
5°	9728.5	9688.2	9682.0	9645.3	9567.4
6°	8902.2	8878.9	8836.9	8774.2	8670.3
7°	8016.8	7998.0	7925.5	7812.7	7692.7
8°	7046.4	7046.4	6941.6	6785.9	6648.9
9°	6127.9	6093.9	5960.5	5772.5	5640.0
10°	5239.8	5194.1	5035.7	4845.0	4713.4
11°	4399.2	4350.8	4198.6	4003.5	3881.7
12°	3673.1	3647.2	3529.0	3314.2	3192.4
13°	3059.9	3025.9	2922.0	2718.8	2615.0
14°	2525.5	2482.5	2399.2	2213.0	2111.9
15°	2037.6	2031.3	1985.6	1800.3	1704.5
16°	1665.1	1661.6	1618.6	1437.7	1398.4
17°	1336.6	1355.4	1342.9	1176.3	1131.6
18°	1040.3	1077.9	1086.8	936.4	891.7
19°	837.0	872.9	888.1	756.5	718.9
20°	666.1	700.1	711.7	613.2	588.2
22.5°	377.8	423.4	425.2	374.2	348.2
25°	222.9	248.9	240.8	222.9	214.0
26°	187.1	212.2	199.6	194.3	187.1
27°	157.6	174.6	164.7	155.8	162.0
28°	130.7	142.3	132.5	135.2	125.3
29°	103.8	123.5	109.2	111.9	103.8
30°	77.9	95.8	85.0	89.5	83.3
32.5°	58.2	63.6	56.4	63.6	63.6
35°	47.4	47.4	55.5	44.8	42.1
37.5°	21.5	17.0	18.8	15.2	17.9
40°	23.3	26.0	27.8	23.3	28.6
42.5°	16.1	21.5	21.5	14.3	25.1
45°	19.7	16.1	15.2	15.2	14.3
47.5°	9.0	6.3	7.2	8.1	12.5
50°	10.7	4.5	7.2	10.7	5.4
52.5°	3.6	0.0	4.5	0.0	1.8
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.9	1.8	0.0
60°	5.4	6.3	5.4	3.6	1.8
62.5°	9.0	1.8	2.7	3.6	0.0
65°	3.6	1.8	0.9	0.0	0.0
67.5°	0.0	0.0	2.7	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	4.5	0.0	0.0
77.5°	1.8	0.0	3.6	0.0	0.0
80°	0.0	1.8	0.0	0.0	0.0
82.5°	0.0	0.0	4.5	3.6	0.0
85°	0.0	0.9	0.9	2.7	0.0
87.5°	0.0	2.7	3.6	0.9	1.8
90°	0.0	0.0	0.0	0.0	0.0



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







70°	0.0	0.0	2.7	1.8	3.6
72.5°	0.0	0.9	3.6	5.4	1.8



(END OF REPORT)