

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: P314818

Luminaire Tested: **LDA2B15SP9050D010 PIN1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P314818  
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: LDA2B15SP9050D010 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: 1264.8 lumens  
Efficiency: N/A  
Efficacy: 89.7 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

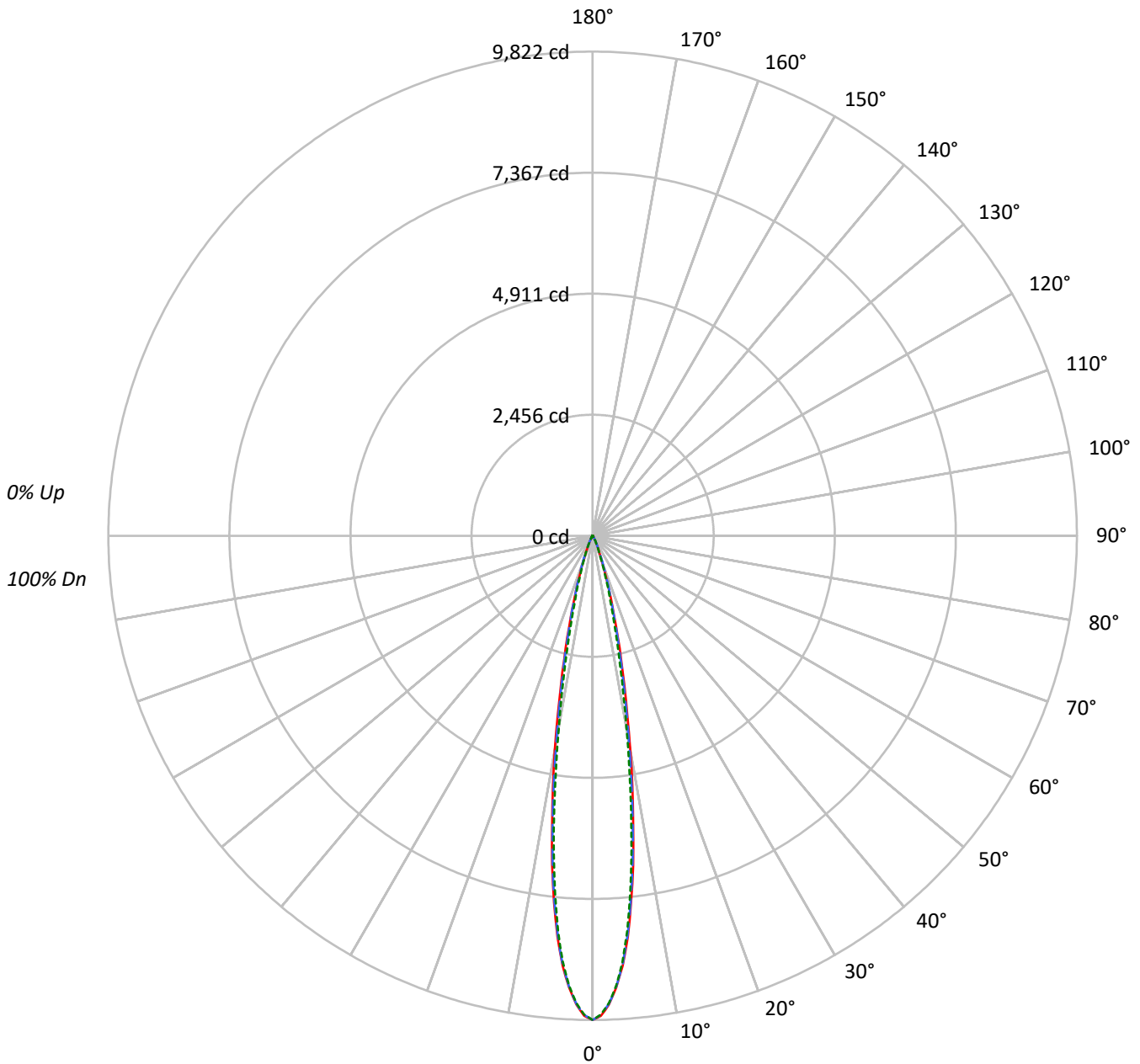
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4845898	4845898	4845898
5°	4048490	4029126	3981434
10°	2205733	2119816	1984152
15°	874482	852213	731570
20°	293856	313965	259467
25°	101959	110179	97877
30°	37257	40732	39878
35°	24031	28066	21321
40°	12623	15006	15521
45°	11512	8931	8373
50°	6908	4605	3454
55°	0	0	0
60°	4440	4440	1480
65°	3502	934	0
70°	0	3318	4327
75°	0	7244	0
80°	0	0	0
85°	0	4529	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	642.2	50.8
10°-20°	478.0	37.8
20°-30°	105.7	8.4
30°-40°	23.5	1.9
40°-50°	9.6	0.8
50°-60°	1.6	0.1
60°-70°	1.7	0.1
70°-80°	1.3	0.1
80°-90°	1.2	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°	1225.9	96.9
0°-40°	1249.4	98.8
0°-60°	1260.6	99.7
0°-90°	1264.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1264.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9822	9822	9822	9822	9822	
5°	8175	8141	8136	8105	8039	652
15°	1712	1707	1668	1513	1432	503
25°	187	209	202	187	180	102
35°	40	40	47	38	35	23
45°	16	14	13	13	12	10
55°	0	0	0	0	0	2
65°	3	2	1	0	0	3
75°	0	0	4	0	0	1
85°	0	1	1	2	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9822.2	9822.2	9822.2	9822.2	9822.2
1°	9741.7	9701.8	9721.3	9732.6	9716.1
2°	9514.5	9466.3	9497.2	9500.2	9483.6
3°	9176.0	9154.2	9163.9	9167.7	9134.6
4°	8742.7	8711.1	8717.8	8709.6	8668.9
5°	8174.7	8140.9	8135.6	8104.8	8039.3
6°	7480.4	7460.8	7425.5	7372.8	7285.6
7°	6736.4	6720.6	6659.7	6564.9	6464.1
8°	5921.0	5921.0	5833.0	5702.1	5587.0
9°	5149.2	5120.6	5008.5	4850.5	4739.2
10°	4402.9	4364.6	4231.4	4071.2	3960.6
11°	3696.6	3655.9	3528.1	3364.1	3261.8
12°	3086.5	3064.7	2965.4	2784.8	2682.5
13°	2571.2	2542.6	2455.3	2284.6	2197.3
14°	2122.1	2086.0	2016.0	1859.6	1774.6
15°	1712.1	1706.9	1668.5	1512.8	1432.3
16°	1399.2	1396.2	1360.1	1208.1	1175.0
17°	1123.1	1138.9	1128.4	988.5	950.8
18°	874.1	905.7	913.2	786.9	749.2
19°	703.4	733.4	746.2	635.7	604.1
20°	559.7	588.3	598.0	515.3	494.2
22.5°	317.5	355.8	357.3	314.4	292.6
25°	187.3	209.1	202.4	187.3	179.8
26°	157.2	178.3	167.8	163.2	157.2
27°	132.4	146.7	138.4	130.9	136.2
28°	109.8	119.6	111.3	113.6	105.3
29°	87.3	103.8	91.8	94.0	87.3
30°	65.4	80.5	71.5	75.2	70.0
32.5°	48.9	53.4	47.4	53.4	53.4
35°	39.9	39.9	46.6	37.6	35.4
37.5°	18.1	14.3	15.8	12.8	15.0
40°	19.6	21.8	23.3	19.6	24.1
42.5°	13.5	18.1	18.1	12.0	21.1
45°	16.5	13.5	12.8	12.8	12.0
47.5°	7.5	5.3	6.0	6.8	10.5
50°	9.0	3.8	6.0	9.0	4.5
52.5°	3.0	0.0	3.8	0.0	1.5
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.8	1.5	0.0
60°	4.5	5.3	4.5	3.0	1.5
62.5°	7.5	1.5	2.3	3.0	0.0
65°	3.0	1.5	0.8	0.0	0.0
67.5°	0.0	0.0	2.3	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	3.8	0.0	0.0
77.5°	1.5	0.0	3.0	0.0	0.0
80°	0.0	1.5	0.0	0.0	0.0
82.5°	0.0	0.0	3.8	3.0	0.0
85°	0.0	0.8	0.8	2.3	0.0
87.5°	0.0	2.3	3.0	0.8	1.5
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	2.3	1.5	3.0
72.5°	0.0	0.8	3.0	4.5	1.5



(END OF REPORT)