

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: P314812

Luminaire Tested: **LDA2B15SP9035D010 PIN1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P314812  
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: LDA2B15SP9035D010 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: 1205.5 lumens  
Efficiency: N/A  
Efficacy: 85.5 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

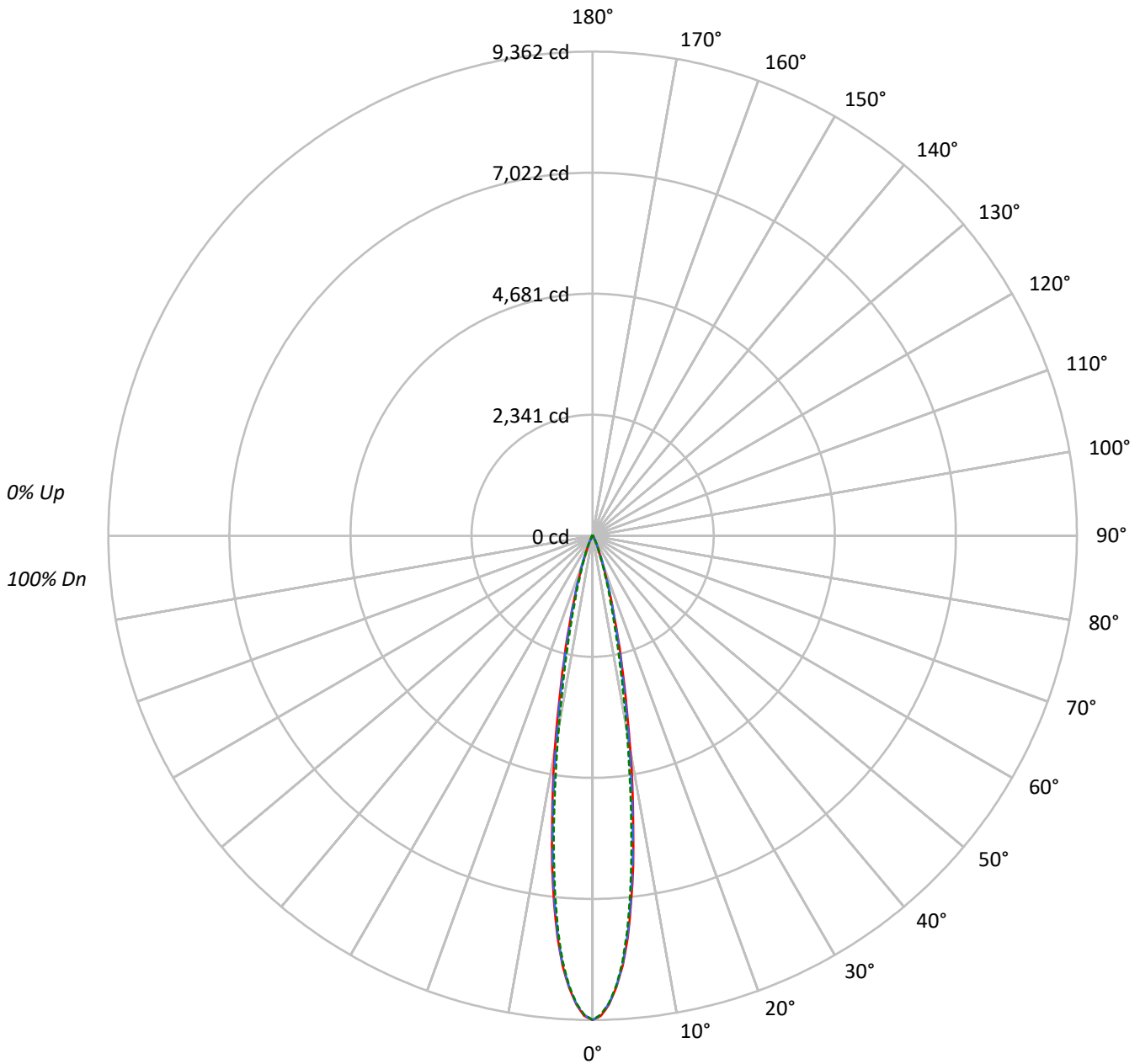
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4618656	4618656	4618656
5°	3858662	3840190	3794726
10°	2102332	2020423	1891122
15°	833467	812271	697246
20°	280048	299264	247339
25°	97169	105008	93304
30°	35548	38796	37998
35°	22887	26802	20297
40°	11979	14298	14748
45°	11024	8512	8024
50°	6601	4375	3300
55°	0	0	0
60°	4243	4243	1381
65°	3385	817	0
70°	0	3173	4183
75°	0	6862	0
80°	0	0	0
85°	0	3962	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	612.1	50.8
10°-20°	455.6	37.8
20°-30°	100.8	8.4
30°-40°	22.4	1.9
40°-50°	9.1	0.8
50°-60°	1.5	0.1
60°-70°	1.6	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°	1168.4	96.9
0°-40°	1190.8	98.8
0°-60°	1201.5	99.7
0°-90°	1205.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1205.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9362	9362	9362	9362	9362	
5°	7791	7759	7754	7725	7662	621
15°	1632	1627	1590	1442	1365	480
25°	178	199	193	178	171	97
35°	38	38	44	36	34	22
45°	16	13	12	12	12	9
55°	0	0	0	0	0	2
65°	3	1	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°	9361.6	9361.6	9361.6	9361.6	9361.6
1°	9284.8	9246.8	9265.5	9276.2	9260.5
2°	9068.3	9022.4	9051.8	9054.7	9038.9
3°	8745.7	8724.9	8734.2	8737.8	8706.2
4°	8332.7	8302.6	8309.0	8301.1	8262.4
5°	7791.4	7759.1	7754.1	7724.7	7662.3
6°	7129.6	7111.0	7077.3	7027.1	6943.9
7°	6420.5	6405.5	6347.4	6257.0	6161.0
8°	5643.3	5643.3	5559.4	5434.7	5325.0
9°	4907.7	4880.5	4773.6	4623.1	4516.9
10°	4196.5	4159.9	4033.0	3880.3	3774.9
11°	3523.2	3484.5	3362.6	3206.3	3108.8
12°	2941.8	2921.0	2826.3	2654.2	2556.7
13°	2450.6	2423.4	2340.2	2177.5	2094.3
14°	2022.6	1988.2	1921.5	1772.4	1691.3
15°	1631.8	1626.8	1590.3	1441.8	1365.1
16°	1333.6	1330.7	1296.3	1151.5	1119.9
17°	1070.4	1085.5	1075.5	942.1	906.3
18°	833.1	863.2	870.4	750.0	714.1
19°	670.4	699.1	711.2	605.8	575.7
20°	533.4	560.7	570.0	491.1	471.1
22.5°	302.6	339.1	340.6	299.7	278.9
25°	178.5	199.3	192.9	178.5	171.4
26°	149.8	169.9	159.9	155.6	149.8
27°	126.2	139.8	131.9	124.8	129.8
28°	104.7	114.0	106.1	108.3	100.4
29°	83.2	98.9	87.5	89.6	83.2
30°	62.4	76.7	68.1	71.7	66.7
32.5°	46.6	50.9	45.2	50.9	50.9
35°	38.0	38.0	44.5	35.8	33.7
37.5°	17.2	13.6	15.1	12.2	14.3
40°	18.6	20.8	22.2	18.6	22.9
42.5°	12.9	17.2	17.2	11.5	20.1
45°	15.8	12.9	12.2	12.2	11.5
47.5°	7.2	5.0	5.7	6.5	10.0
50°	8.6	3.6	5.7	8.6	4.3
52.5°	2.9	0.0	3.6	0.0	1.4
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.7	1.4	0.0
60°	4.3	5.0	4.3	2.9	1.4
62.5°	7.2	1.4	2.2	2.9	0.0
65°	2.9	1.4	0.7	0.0	0.0
67.5°	0.0	0.0	2.2	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	3.6	0.0	0.0
77.5°	1.4	0.0	2.9	0.0	0.0
80°	0.0	1.4	0.0	0.0	0.0
82.5°	0.0	0.0	3.6	2.9	0.0
85°	0.0	0.7	0.7	2.2	0.0
87.5°	0.0	2.2	2.9	0.7	1.4
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	2.2	1.4	2.9
72.5°	0.0	0.7	2.9	4.3	1.4



(END OF REPORT)