

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: P314824

Luminaire Tested: **LDA2B15SP9730D010 PIN1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P314824  
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: LDA2B15SP9730D010 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: 1065.8 lumens  
Efficiency: N/A  
Efficacy: 75.6 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

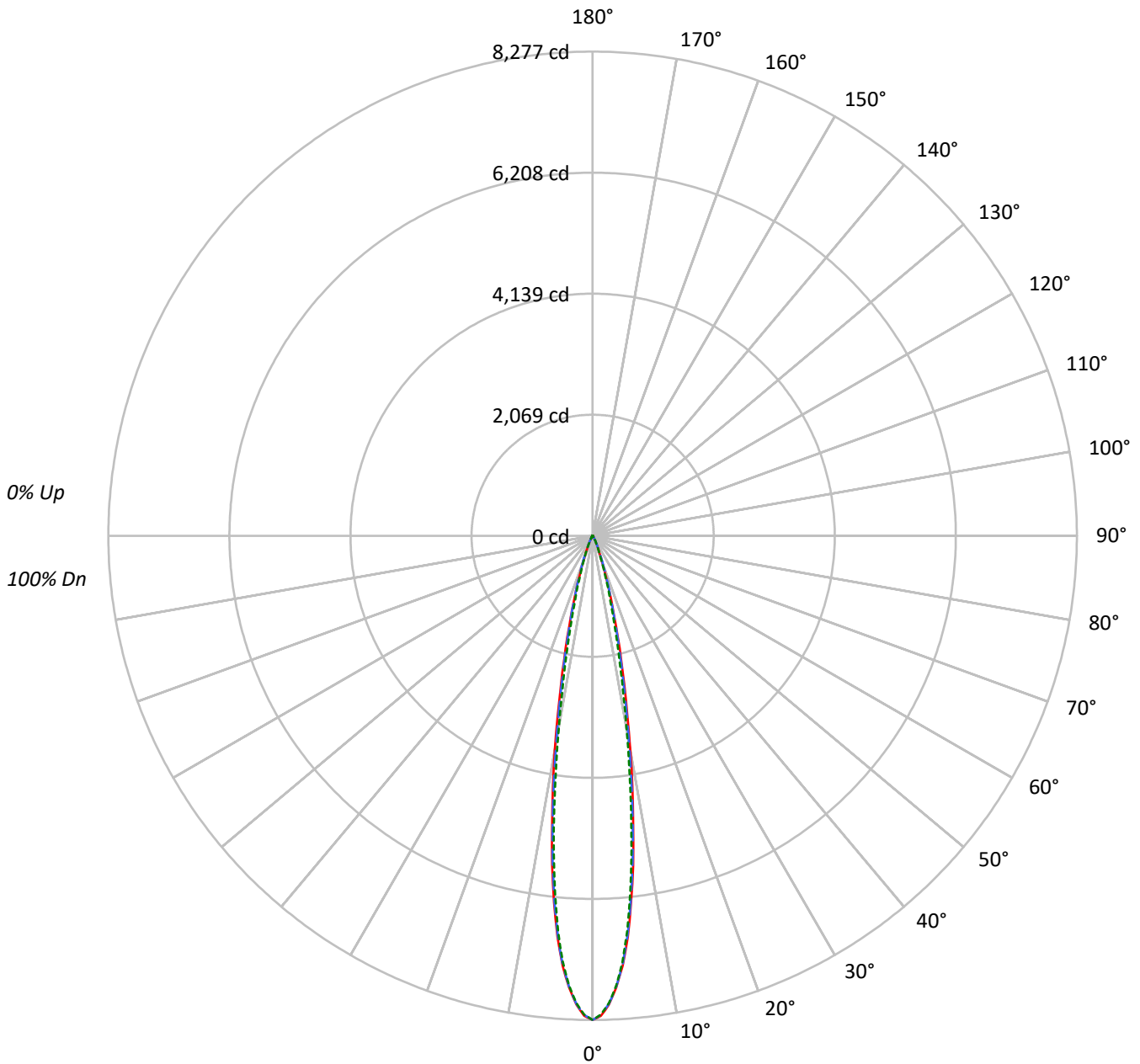
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	4083506	4083506	4083506
5°	3411604	3395260	3355096
10°	1858759	1786318	1671996
15°	736933	718137	616494
20°	247602	264612	218673
25°	85901	92814	82471
30°	31390	34295	33611
35°	20237	23670	17948
40°	10627	12688	13074
45°	9698	7535	7047
50°	5833	3914	2917
55°	0	0	0
60°	3750	3750	1283
65°	2918	700	0
70°	0	2741	3606
75°	0	6100	0
80°	0	0	0
85°	0	3396	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	541.2	50.8
10°-20°	402.8	37.8
20°-30°	89.1	8.4
30°-40°	19.8	1.9
40°-50°	8.1	0.8
50°-60°	1.4	0.1
60°-70°	1.4	0.1
70°-80°	1.1	0.1
80°-90°	1.0	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°	1033.1	96.9
0°-40°	1052.8	98.8
0°-60°	1062.3	99.7
0°-90°	1065.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1065.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8277	8277	8277	8277	8277	
5°	6889	6860	6856	6830	6775	549
15°	1443	1438	1406	1275	1207	424
25°	158	176	170	158	152	86
35°	34	34	39	32	30	19
45°	14	11	11	11	10	8
55°	0	0	0	0	0	2
65°	2	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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8276.9	8276.9	8276.9	8276.9	8276.9
1°	8209.1	8175.5	8192.0	8201.5	8187.5
2°	8017.7	7977.1	8003.1	8005.6	7991.7
3°	7732.4	7714.0	7722.3	7725.4	7697.5
4°	7367.3	7340.6	7346.3	7339.4	7305.1
5°	6888.7	6860.1	6855.7	6829.7	6774.6
6°	6303.6	6287.1	6257.3	6212.9	6139.4
7°	5676.6	5663.3	5612.0	5532.1	5447.2
8°	4989.5	4989.5	4915.3	4805.0	4708.0
9°	4339.1	4315.0	4220.6	4087.4	3993.6
10°	3710.3	3677.9	3565.7	3430.7	3337.5
11°	3115.0	3080.8	2973.0	2834.8	2748.6
12°	2600.9	2582.5	2498.9	2346.7	2260.5
13°	2166.7	2142.6	2069.1	1925.2	1851.6
14°	1788.3	1757.8	1698.9	1567.0	1495.4
15°	1442.8	1438.3	1406.0	1274.8	1207.0
16°	1179.1	1176.5	1146.1	1018.1	990.2
17°	946.4	959.7	950.9	833.0	801.3
18°	736.6	763.2	769.6	663.1	631.4
19°	592.7	618.1	628.8	535.7	509.0
20°	471.6	495.7	504.0	434.2	416.5
22.5°	267.5	299.8	301.1	265.0	246.6
25°	157.8	176.2	170.5	157.8	151.5
26°	132.5	150.2	141.4	137.6	132.5
27°	111.6	123.6	116.6	110.3	114.7
28°	92.6	100.8	93.8	95.7	88.7
29°	73.5	87.5	77.3	79.2	73.5
30°	55.1	67.8	60.2	63.4	59.0
32.5°	41.2	45.0	39.9	45.0	45.0
35°	33.6	33.6	39.3	31.7	29.8
37.5°	15.2	12.0	13.3	10.8	12.7
40°	16.5	18.4	19.7	16.5	20.3
42.5°	11.4	15.2	15.2	10.1	17.7
45°	13.9	11.4	10.8	10.8	10.1
47.5°	6.3	4.4	5.1	5.7	8.9
50°	7.6	3.2	5.1	7.6	3.8
52.5°	2.5	0.0	3.2	0.0	1.3
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.6	1.3	0.0
60°	3.8	4.4	3.8	2.5	1.3
62.5°	6.3	1.3	1.9	2.5	0.0
65°	2.5	1.3	0.6	0.0	0.0
67.5°	0.0	0.0	1.9	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	3.2	0.0	0.0
77.5°	1.3	0.0	2.5	0.0	0.0
80°	0.0	1.3	0.0	0.0	0.0
82.5°	0.0	0.0	3.2	2.5	0.0
85°	0.0	0.6	0.6	1.9	0.0
87.5°	0.0	1.9	2.5	0.6	1.3
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	1.9	1.3	2.5
72.5°	0.0	0.6	2.5	3.8	1.3



(END OF REPORT)