

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: P314797

Luminaire Tested: **LDA2B15SP8040D010 PIN1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P314797  
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: LDA2B15SP8040D010 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: 1515.1 lumens  
Efficiency: N/A  
Efficacy: 107.5 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

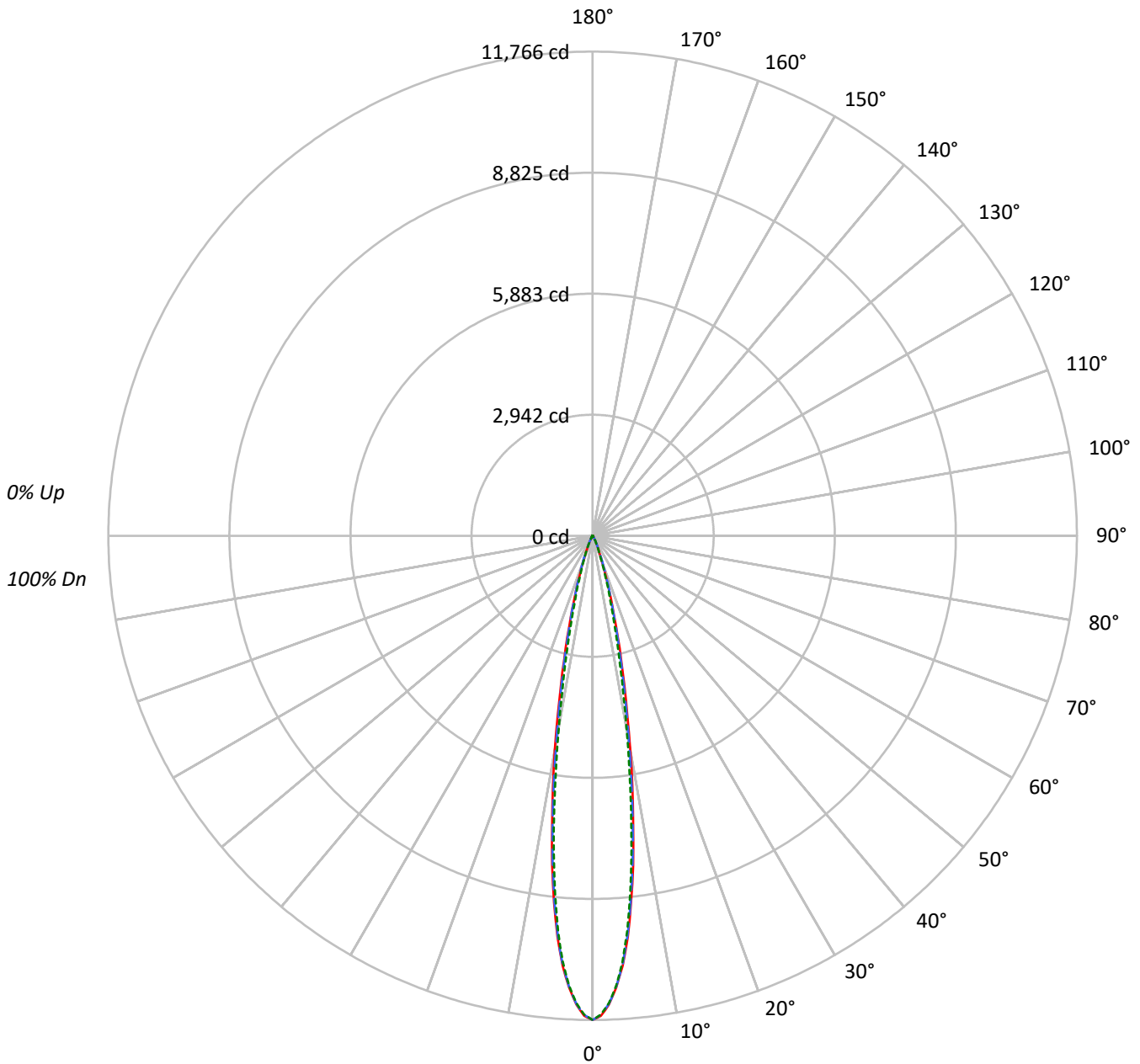
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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																			
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97																			
2	112	109	106	104	110	107	105	103	104	102	101	101	100	98	99	98	96	95																			
3	109	105	102	99	107	104	101	98	101	99	97	99	97	95	97	95	94	93																			
4	106	102	98	96	105	101	97	95	99	96	94	97	95	93	95	93	92	91																			
5	104	99	95	92	103	98	95	92	96	94	91	95	92	91	94	92	90	89																			
6	101	96	92	90	100	95	92	90	94	91	89	93	90	89	92	90	88	87																			
7	99	94	90	88	98	93	90	87	92	89	87	91	89	87	90	88	86	85																			
8	97	92	88	86	96	91	88	85	90	87	85	89	87	85	89	86	85	84																			
9	95	90	86	84	95	89	86	84	88	86	83	88	85	83	87	85	83	82																			
10	93	88	84	82	93	87	84	82	87	84	82	86	84	82	86	83	82	81																			

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

	0°	45°	90°
0°	5804796	5804796	5804796
5°	4849650	4826423	4769321
10°	2642230	2539280	2376765
15°	1047529	1020867	876321
20°	351977	376128	310815
25°	122155	131954	117256
30°	44663	48765	47740
35°	28789	33668	25537
40°	15070	17969	18548
45°	13815	10675	10047
50°	8289	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°	769.3	50.8
10°-20°	572.6	37.8
20°-30°	126.6	8.4
30°-40°	28.1	1.9
40°-50°	11.5	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°	1468.5	96.9
0°-40°	1496.6	98.8
0°-60°	1510.1	99.7
0°-90°	1515.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1515.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11766	11766	11766	11766	11766	
5°	9792	9752	9746	9708	9630	781
15°	2051	2045	1999	1812	1716	603
25°	224	250	242	224	215	122
35°	48	48	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°	11765.8	11765.8	11765.8	11765.8	11765.8
1°	11669.4	11621.6	11645.0	11658.5	11638.7
2°	11397.2	11339.6	11376.5	11380.1	11360.3
3°	10991.7	10965.6	10977.3	10981.8	10942.2
4°	10472.7	10434.8	10443.0	10433.0	10384.4
5°	9792.4	9751.8	9745.5	9708.5	9630.2
6°	8960.6	8937.2	8894.8	8831.8	8727.2
7°	8069.4	8050.5	7977.5	7864.0	7743.2
8°	7092.6	7092.6	6987.2	6830.4	6692.5
9°	6168.1	6133.8	5999.6	5810.4	5677.0
10°	5274.2	5228.2	5068.7	4876.8	4744.3
11°	4428.0	4379.4	4226.2	4029.8	3907.2
12°	3697.3	3671.1	3552.2	3335.9	3213.4
13°	3080.0	3045.7	2941.2	2736.7	2632.1
14°	2542.0	2498.8	2415.0	2227.5	2125.7
15°	2050.9	2044.6	1998.7	1812.1	1715.7
16°	1676.1	1672.5	1629.2	1447.2	1407.5
17°	1345.4	1364.3	1351.7	1184.1	1139.0
18°	1047.1	1084.9	1093.9	942.6	897.5
19°	842.5	878.6	893.9	761.4	723.6
20°	670.4	704.7	716.4	617.3	592.0
22.5°	380.3	426.2	428.0	376.7	350.5
25°	224.4	250.5	242.4	224.4	215.4
26°	188.3	213.6	200.9	195.5	188.3
27°	158.6	175.7	165.8	156.8	163.1
28°	131.6	143.3	133.4	136.1	126.2
29°	104.5	124.4	109.9	112.6	104.5
30°	78.4	96.4	85.6	90.1	83.8
32.5°	58.6	64.0	56.8	64.0	64.0
35°	47.8	47.8	55.9	45.1	42.4
37.5°	21.6	17.1	18.9	15.3	18.0
40°	23.4	26.1	27.9	23.4	28.8
42.5°	16.2	21.6	21.6	14.4	25.2
45°	19.8	16.2	15.3	15.3	14.4
47.5°	9.0	6.3	7.2	8.1	12.6
50°	10.8	4.5	7.2	10.8	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)