

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: P314827

Luminaire Tested: **LDA2B15SPD2WD010 PIN1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P314827  
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: LDA2B15SPD2WD010 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**

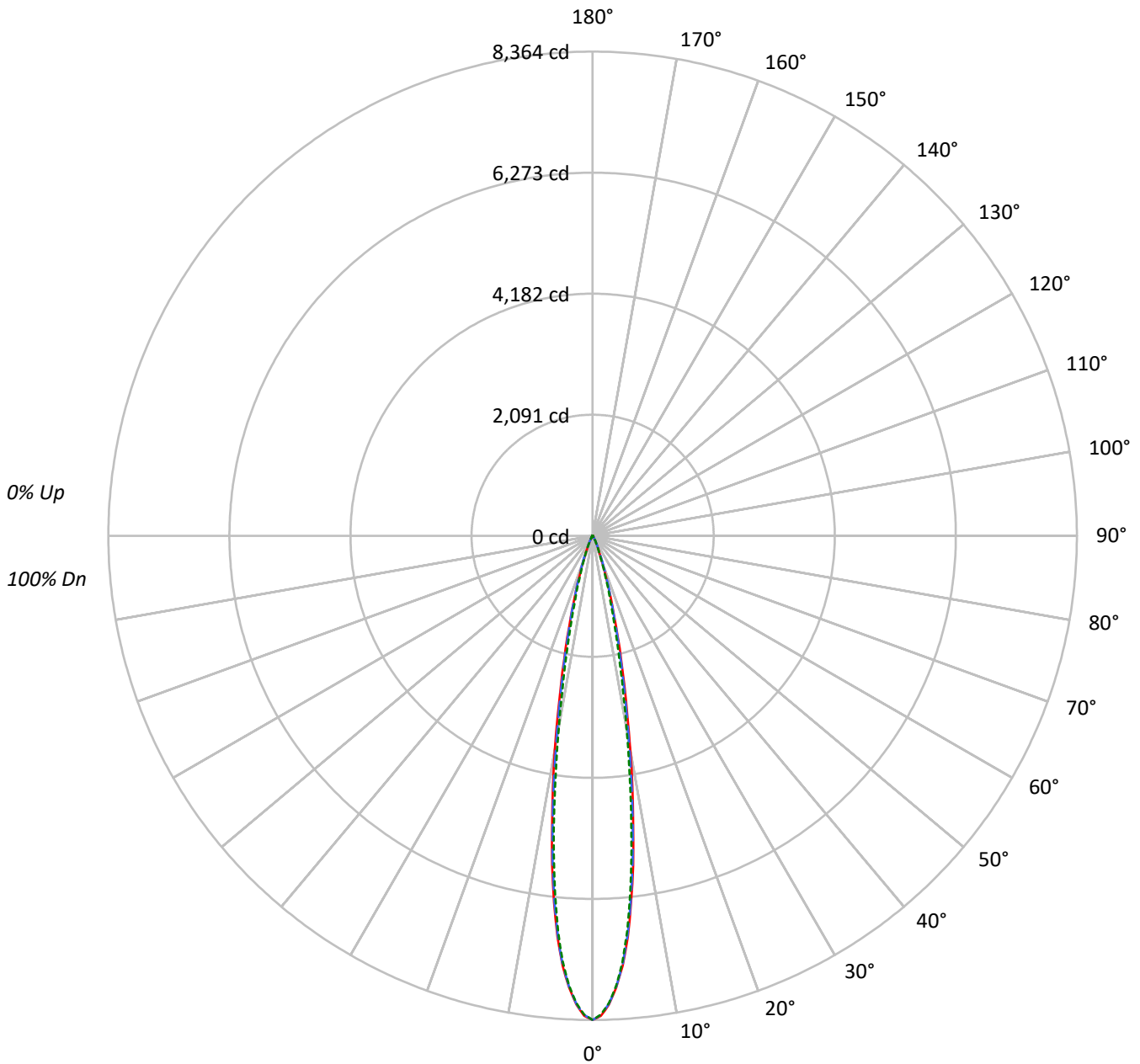
Lumens per Lamp: N/A  
Luminaire Lumens: 1077.0 lumens  
Efficiency: N/A  
Efficacy: 76.4 lumens/watt  
Spacing Criteria (0/90/45): 0.32 / 0.3 / 0.32  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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°	4126330	4126330	4126330
5°	3447360	3430869	3390258
10°	1878247	1805055	1689530
15°	744645	725696	622930
20°	250227	267343	220930
25°	86826	93794	83342
30°	31731	34694	33953
35°	20417	23911	18129
40°	10755	12816	13203
45°	9838	7605	7117
50°	5910	3914	2917
55°	0	0	0
60°	3750	3750	1283
65°	3035	700	0
70°	0	2741	3750
75°	0	6100	0
80°	0	0	0
85°	0	3396	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	546.8	50.8
10°-20°	407.0	37.8
20°-30°	90.0	8.4
30°-40°	20.0	1.9
40°-50°	8.2	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°	1043.9	96.9
0°-40°	1063.9	98.8
0°-60°	1073.4	99.7
0°-90°	1077.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1077.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8364	8364	8364	8364	8364	
5°	6961	6932	6928	6901	6846	555
15°	1458	1453	1421	1288	1220	429
25°	160	178	172	160	153	87
35°	34	34	40	32	30	19
45°	14	12	11	11	10	8
55°	0	0	0	0	0	2
65°	3	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°	8363.7	8363.7	8363.7	8363.7	8363.7
1°	8295.2	8261.2	8277.9	8287.5	8273.4
2°	8101.7	8060.8	8087.0	8089.6	8075.5
3°	7813.5	7794.9	7803.2	7806.5	7778.3
4°	7444.5	7417.6	7423.4	7416.4	7381.8
5°	6960.9	6932.1	6927.6	6901.3	6845.6
6°	6369.7	6353.0	6322.9	6278.1	6203.8
7°	5736.2	5722.7	5670.8	5590.1	5504.3
8°	5041.8	5041.8	4966.9	4855.4	4757.4
9°	4384.6	4360.3	4264.8	4130.3	4035.5
10°	3749.2	3716.5	3603.1	3466.7	3372.5
11°	3147.7	3113.1	3004.2	2864.6	2777.4
12°	2628.2	2609.6	2525.1	2371.3	2284.2
13°	2189.4	2165.1	2090.8	1945.4	1871.1
14°	1807.0	1776.3	1716.7	1583.5	1511.1
15°	1457.9	1453.4	1420.8	1288.2	1219.6
16°	1191.4	1188.9	1158.1	1028.7	1000.5
17°	956.3	969.8	960.8	841.7	809.7
18°	744.3	771.2	777.6	670.0	638.0
19°	598.9	624.5	635.4	541.3	514.4
20°	476.6	500.9	509.2	438.8	420.8
22.5°	270.3	303.0	304.3	267.8	249.2
25°	159.5	178.1	172.3	159.5	153.1
26°	133.9	151.8	142.8	139.0	133.9
27°	112.7	124.9	117.9	111.5	115.9
28°	93.5	101.8	94.8	96.7	89.7
29°	74.3	88.4	78.1	80.1	74.3
30°	55.7	68.5	60.9	64.1	59.6
32.5°	41.6	45.5	40.4	45.5	45.5
35°	33.9	33.9	39.7	32.0	30.1
37.5°	15.4	12.2	13.5	10.9	12.8
40°	16.7	18.6	19.9	16.7	20.5
42.5°	11.5	15.4	15.4	10.2	17.9
45°	14.1	11.5	10.9	10.9	10.2
47.5°	6.4	4.5	5.1	5.8	9.0
50°	7.7	3.2	5.1	7.7	3.8
52.5°	2.6	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	4.5	3.8	2.6	1.3
62.5°	6.4	1.3	1.9	2.6	0.0
65°	2.6	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	2.6	0.0	0.0
80°	0.0	1.3	0.0	0.0	0.0
82.5°	0.0	0.0	3.2	2.6	0.0
85°	0.0	0.6	0.6	1.9	0.0
87.5°	0.0	1.9	2.6	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	2.6
72.5°	0.0	0.6	2.6	3.8	1.3



(END OF REPORT)