

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: P314794

Luminaire Tested: **LDA2B15SP8035D010 PIN1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P314794  
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: LDA2B15SP8035D010 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: 1455.6 lumens  
Efficiency: N/A  
Efficacy: 103.2 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

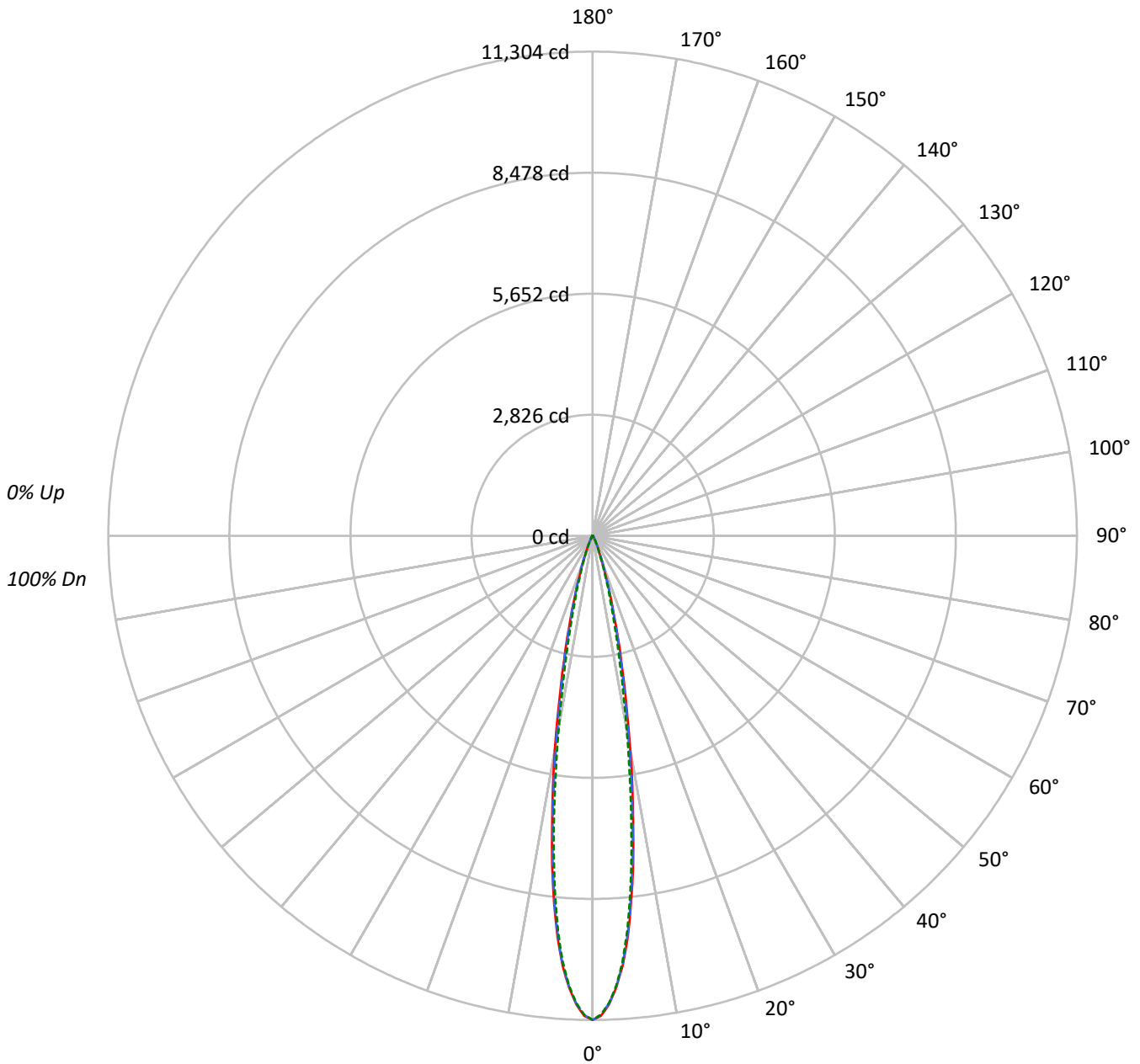
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					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	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	100	99	99	99	100		
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97	97	97	96	96	96	97		
2	112	109	106	104	110	107	105	103	104	102	101	101	100	98	99	98	96	95	95	95	94	94	94	95		
3	109	105	102	99	107	104	101	98	101	99	97	99	97	95	97	95	94	93	93	93	92	92	92	93		
4	106	102	98	96	105	101	97	95	99	96	94	97	95	93	95	93	92	91	91	91	90	90	90	91		
5	104	99	95	92	103	98	95	92	96	93	91	95	92	91	94	92	90	89	89	89	88	88	88	89		
6	101	96	92	90	100	95	92	90	94	91	89	93	90	88	92	90	88	87	87	87	86	86	86	87		
7	99	94	90	88	98	93	90	87	92	89	87	91	89	87	90	88	86	85	85	85	84	84	84	85		
8	97	92	88	86	96	91	88	85	90	87	85	89	87	85	89	86	85	84	84	84	83	83	83	84		
9	95	90	86	84	95	89	86	84	88	86	83	88	85	83	87	85	83	82	82	82	81	81	81	82		
10	93	88	84	82	93	87	84	82	87	84	82	86	84	82	86	83	82	81	81	81	80	80	80	81		

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

	0°	45°	90°
0°	5576715	5576715	5576715
5°	4659080	4636793	4581871
10°	2538379	2439537	2283383
15°	1006362	980721	841895
20°	338168	361322	298634
25°	117365	126782	112629
30°	42897	46828	45860
35°	27645	32343	24513
40°	14491	17260	17840
45°	13257	10256	9698
50°	7982	5296	3991
55°	0	0	0
60°	5131	5131	1677
65°	4086	1051	0
70°	0	3750	5049
75°	0	8197	0
80°	0	0	0
85°	0	5095	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	739.0	50.8
10°-20°	550.1	37.8
20°-30°	121.7	8.4
30°-40°	27.0	1.9
40°-50°	11.0	0.8
50°-60°	1.8	0.1
60°-70°	1.9	0.1
70°-80°	1.5	0.1
80°-90°	1.4	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°	1410.8	96.9
0°-40°	1437.8	98.8
0°-60°	1450.7	99.7
0°-90°	1455.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1455.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11304	11304	11304	11304	11304	
5°	9408	9369	9363	9327	9252	750
15°	1970	1964	1920	1741	1648	579
25°	216	241	233	216	207	117
35°	46	46	54	43	41	26
45°	19	16	15	15	14	11
55°	0	0	0	0	0	2
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°	11303.5	11303.5	11303.5	11303.5	11303.5
1°	11210.8	11164.9	11187.5	11200.4	11181.4
2°	10949.4	10894.0	10929.5	10932.9	10913.9
3°	10559.8	10534.7	10546.0	10550.3	10512.2
4°	10061.2	10024.8	10032.6	10023.1	9976.3
5°	9407.6	9368.6	9362.6	9327.1	9251.7
6°	8608.5	8586.0	8545.3	8484.7	8384.3
7°	7752.4	7734.2	7664.0	7555.0	7439.0
8°	6813.9	6813.9	6712.6	6562.0	6429.6
9°	5925.7	5892.8	5763.8	5582.0	5453.9
10°	5066.9	5022.8	4869.6	4685.2	4557.9
11°	4254.1	4207.3	4060.1	3871.4	3753.7
12°	3552.0	3526.9	3412.6	3204.8	3087.1
13°	2959.0	2926.1	2825.6	2629.1	2528.7
14°	2442.1	2400.6	2320.1	2140.0	2042.2
15°	1970.3	1964.3	1920.1	1740.9	1648.3
16°	1610.2	1606.7	1565.2	1390.3	1352.2
17°	1292.5	1310.7	1298.6	1137.5	1094.2
18°	1005.9	1042.3	1051.0	905.5	862.2
19°	809.4	844.1	858.8	731.5	695.2
20°	644.1	677.0	688.2	593.0	568.8
22.5°	365.3	409.5	411.2	361.9	336.8
25°	215.6	240.7	232.9	215.6	206.9
26°	180.9	205.2	193.1	187.9	180.9
27°	152.4	168.8	159.3	150.6	156.7
28°	126.4	137.6	128.1	130.7	121.2
29°	100.4	119.5	105.6	108.2	100.4
30°	75.3	92.6	82.2	86.6	80.5
32.5°	56.3	61.5	54.5	61.5	61.5
35°	45.9	45.9	53.7	43.3	40.7
37.5°	20.8	16.4	18.2	14.7	17.3
40°	22.5	25.1	26.8	22.5	27.7
42.5°	15.6	20.8	20.8	13.9	24.2
45°	19.0	15.6	14.7	14.7	13.9
47.5°	8.7	6.1	6.9	7.8	12.1
50°	10.4	4.3	6.9	10.4	5.2
52.5°	3.5	0.0	4.3	0.0	1.7
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.9	1.7	0.0
60°	5.2	6.1	5.2	3.5	1.7
62.5°	8.7	1.7	2.6	3.5	0.0
65°	3.5	1.7	0.9	0.0	0.0
67.5°	0.0	0.0	2.6	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	4.3	0.0	0.0
77.5°	1.7	0.0	3.5	0.0	0.0
80°	0.0	1.7	0.0	0.0	0.0
82.5°	0.0	0.0	4.3	3.5	0.0
85°	0.0	0.9	0.9	2.6	0.0
87.5°	0.0	2.6	3.5	0.9	1.7
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	2.6	1.7	3.5
72.5°	0.0	0.9	3.5	5.2	1.7



(END OF REPORT)