

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: P314727

Luminaire Tested: **LDA2B05SP9035D010 PIN1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P314727  
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: LDA2B05SP9035D010 PIN1MW  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in  
Adj PinHole, Black oculus, matte white finish  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 666.9 lumens  
Efficiency: N/A  
Efficacy: 95.3 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

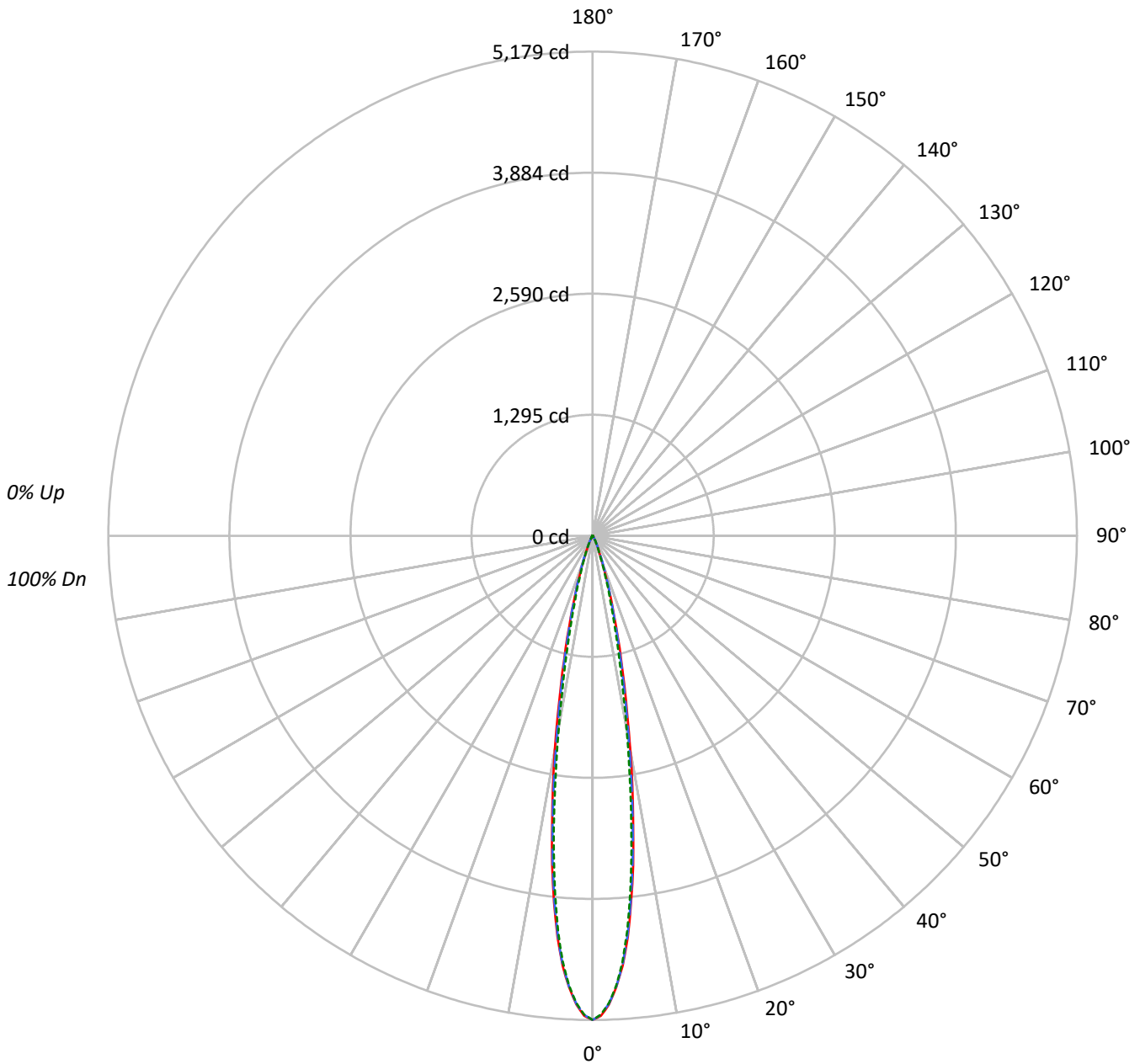
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2554973	2554973	2554973
5°	2134561	2124359	2099201
10°	1162958	1117670	1046131
15°	461068	449321	385730
20°	154935	165540	136821
25°	53783	58084	51606
30°	19654	21477	21021
35°	12648	14816	11202
40°	6634	7922	8179
45°	6070	4675	4396
50°	3684	2456	1842
55°	0	0	0
60°	2368	2368	789
65°	1868	467	0
70°	0	1731	2308
75°	0	3812	0
80°	0	0	0
85°	0	2264	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	338.6	50.8
10°-20°	252.0	37.8
20°-30°	55.7	8.4
30°-40°	12.4	1.9
40°-50°	5.1	0.8
50°-60°	0.9	0.1
60°-70°	0.9	0.1
70°-80°	0.7	0.1
80°-90°	0.7	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°	646.4	96.9
0°-40°	658.7	98.8
0°-60°	664.7	99.7
0°-90°	666.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	666.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5179	5179	5179	5179	5179	
5°	4310	4292	4290	4273	4239	344
15°	903	900	880	798	755	265
25°	99	110	107	99	95	54
35°	21	21	25	20	19	12
45°	9	7	7	7	6	5
55°	0	0	0	0	0	1
65°	2	1	0	0	0	2
75°	0	0	2	0	0	0
85°	0	0	0	1	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5178.7	5178.7	5178.7	5178.7	5178.7
1°	5136.3	5115.3	5125.6	5131.5	5122.8
2°	5016.5	4991.1	5007.4	5009.0	5000.3
3°	4838.0	4826.5	4831.7	4833.7	4816.2
4°	4609.6	4592.9	4596.5	4592.1	4570.7
5°	4310.1	4292.3	4289.5	4273.2	4238.7
6°	3944.0	3933.7	3915.1	3887.3	3841.3
7°	3551.8	3543.4	3511.3	3461.3	3408.2
8°	3121.8	3121.8	3075.4	3006.4	2945.7
9°	2714.9	2699.8	2640.7	2557.4	2498.7
10°	2321.4	2301.2	2231.0	2146.5	2088.2
11°	1949.0	1927.6	1860.2	1773.7	1719.8
12°	1627.4	1615.9	1563.5	1468.3	1414.4
13°	1355.7	1340.6	1294.6	1204.5	1158.5
14°	1118.9	1099.8	1063.0	980.5	935.6
15°	902.7	899.9	879.7	797.6	755.2
16°	737.7	736.1	717.1	637.0	619.5
17°	592.2	600.5	594.9	521.2	501.3
18°	460.9	477.5	481.5	414.9	395.0
19°	370.8	386.7	393.5	335.1	318.5
20°	295.1	310.2	315.3	271.7	260.6
22.5°	167.4	187.6	188.4	165.8	154.3
25°	98.8	110.3	106.7	98.8	94.8
26°	82.9	94.0	88.4	86.1	82.9
27°	69.8	77.3	73.0	69.0	71.8
28°	57.9	63.1	58.7	59.9	55.5
29°	46.0	54.7	48.4	49.6	46.0
30°	34.5	42.4	37.7	39.7	36.9
32.5°	25.8	28.2	25.0	28.2	28.2
35°	21.0	21.0	24.6	19.8	18.6
37.5°	9.5	7.5	8.3	6.7	7.9
40°	10.3	11.5	12.3	10.3	12.7
42.5°	7.1	9.5	9.5	6.3	11.1
45°	8.7	7.1	6.7	6.7	6.3
47.5°	4.0	2.8	3.2	3.6	5.6
50°	4.8	2.0	3.2	4.8	2.4
52.5°	1.6	0.0	2.0	0.0	0.8
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.4	0.8	0.0
60°	2.4	2.8	2.4	1.6	0.8
62.5°	4.0	0.8	1.2	1.6	0.0
65°	1.6	0.8	0.4	0.0	0.0
67.5°	0.0	0.0	1.2	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	2.0	0.0	0.0
77.5°	0.8	0.0	1.6	0.0	0.0
80°	0.0	0.8	0.0	0.0	0.0
82.5°	0.0	0.0	2.0	1.6	0.0
85°	0.0	0.4	0.4	1.2	0.0
87.5°	0.0	1.2	1.6	0.4	0.8
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	1.2	0.8	1.6
72.5°	0.0	0.4	1.6	2.4	0.8



(END OF REPORT)