

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: P314708

Luminaire Tested: **LDA2B05SP8030D010 PIN1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P314708  
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: LDA2B05SP8030D010 PIN1MB  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in  
Adj PinHole, Black oculus black finish  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 796.4 lumens  
Efficiency: N/A  
Efficacy: 113.8 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

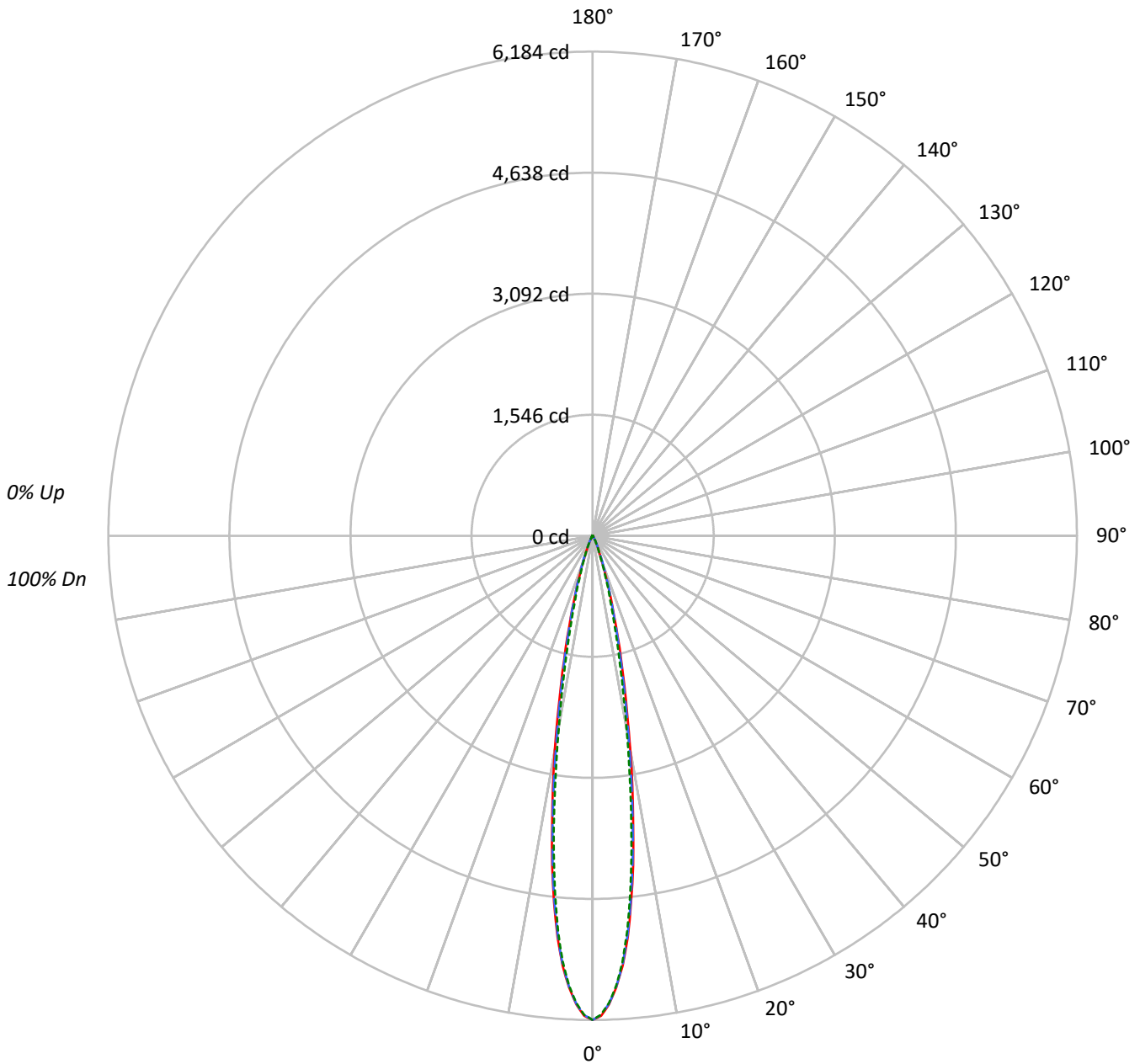
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3051147	3051147	3051147
5°	2549082	2536850	2506838
10°	1388796	1334691	1249276
15°	550605	536559	460609
20°	185019	197672	163388
25°	64181	69352	61622
30°	23471	25636	25066
35°	15117	17707	13431
40°	7922	9467	9789
45°	7256	5652	5303
50°	4375	2917	2149
55°	0	0	0
60°	2763	2763	888
65°	2218	584	0
70°	0	2019	2741
75°	0	4575	0
80°	0	0	0
85°	0	2830	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	404.3	50.8
10°-20°	301.0	37.8
20°-30°	66.6	8.4
30°-40°	14.8	1.9
40°-50°	6.1	0.8
50°-60°	1.0	0.1
60°-70°	1.0	0.1
70°-80°	0.8	0.1
80°-90°	0.8	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°	771.9	96.9
0°-40°	786.7	98.8
0°-60°	793.7	99.7
0°-90°	796.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	796.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6184	6184	6184	6184	6184	
5°	5147	5126	5122	5103	5062	410
15°	1078	1075	1050	952	902	317
25°	118	132	127	118	113	64
35°	25	25	29	24	22	14
45°	10	8	8	8	8	6
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°	6184.4	6184.4	6184.4	6184.4	6184.4
1°	6133.7	6108.6	6120.9	6128.0	6117.6
2°	5990.6	5960.3	5979.7	5981.6	5971.2
3°	5777.5	5763.8	5769.9	5772.3	5751.4
4°	5504.7	5484.8	5489.0	5483.8	5458.3
5°	5147.1	5125.8	5122.4	5103.0	5061.8
6°	4709.9	4697.6	4675.3	4642.2	4587.2
7°	4241.5	4231.5	4193.2	4133.5	4070.0
8°	3728.0	3728.0	3672.6	3590.2	3517.7
9°	3242.1	3224.1	3153.5	3054.0	2983.9
10°	2772.2	2748.1	2664.2	2563.4	2493.7
11°	2327.5	2301.9	2221.4	2118.1	2053.7
12°	1943.4	1929.6	1867.1	1753.4	1689.0
13°	1618.9	1600.9	1546.0	1438.5	1383.5
14°	1336.1	1313.4	1269.4	1170.8	1117.3
15°	1078.0	1074.7	1050.5	952.5	901.8
16°	881.0	879.1	856.3	760.7	739.8
17°	707.1	717.1	710.5	622.4	598.7
18°	550.4	570.3	575.0	495.4	471.7
19°	442.9	461.8	469.9	400.2	380.3
20°	352.4	370.4	376.5	324.4	311.2
22.5°	199.9	224.0	225.0	198.0	184.2
25°	117.9	131.7	127.4	117.9	113.2
26°	99.0	112.3	105.6	102.8	99.0
27°	83.4	92.4	87.2	82.4	85.7
28°	69.2	75.3	70.1	71.5	66.3
29°	54.9	65.4	57.8	59.2	54.9
30°	41.2	50.7	45.0	47.4	44.0
32.5°	30.8	33.6	29.8	33.6	33.6
35°	25.1	25.1	29.4	23.7	22.3
37.5°	11.4	9.0	9.9	8.1	9.5
40°	12.3	13.7	14.7	12.3	15.2
42.5°	8.5	11.4	11.4	7.6	13.3
45°	10.4	8.5	8.1	8.1	7.6
47.5°	4.7	3.3	3.8	4.3	6.6
50°	5.7	2.4	3.8	5.7	2.8
52.5°	1.9	0.0	2.4	0.0	0.9
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.5	0.9	0.0
60°	2.8	3.3	2.8	1.9	0.9
62.5°	4.7	0.9	1.4	1.9	0.0
65°	1.9	0.9	0.5	0.0	0.0
67.5°	0.0	0.0	1.4	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	2.4	0.0	0.0
77.5°	0.9	0.0	1.9	0.0	0.0
80°	0.0	0.9	0.0	0.0	0.0
82.5°	0.0	0.0	2.4	1.9	0.0
85°	0.0	0.5	0.5	1.4	0.0
87.5°	0.0	1.4	1.9	0.5	0.9
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	1.4	0.9	1.9
72.5°	0.0	0.5	1.9	2.8	0.9



(END OF REPORT)