

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: P314715

Luminaire Tested: **LDA2B05SP8050D010 PIN1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P314715  
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: LDA2B05SP8050D010 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**

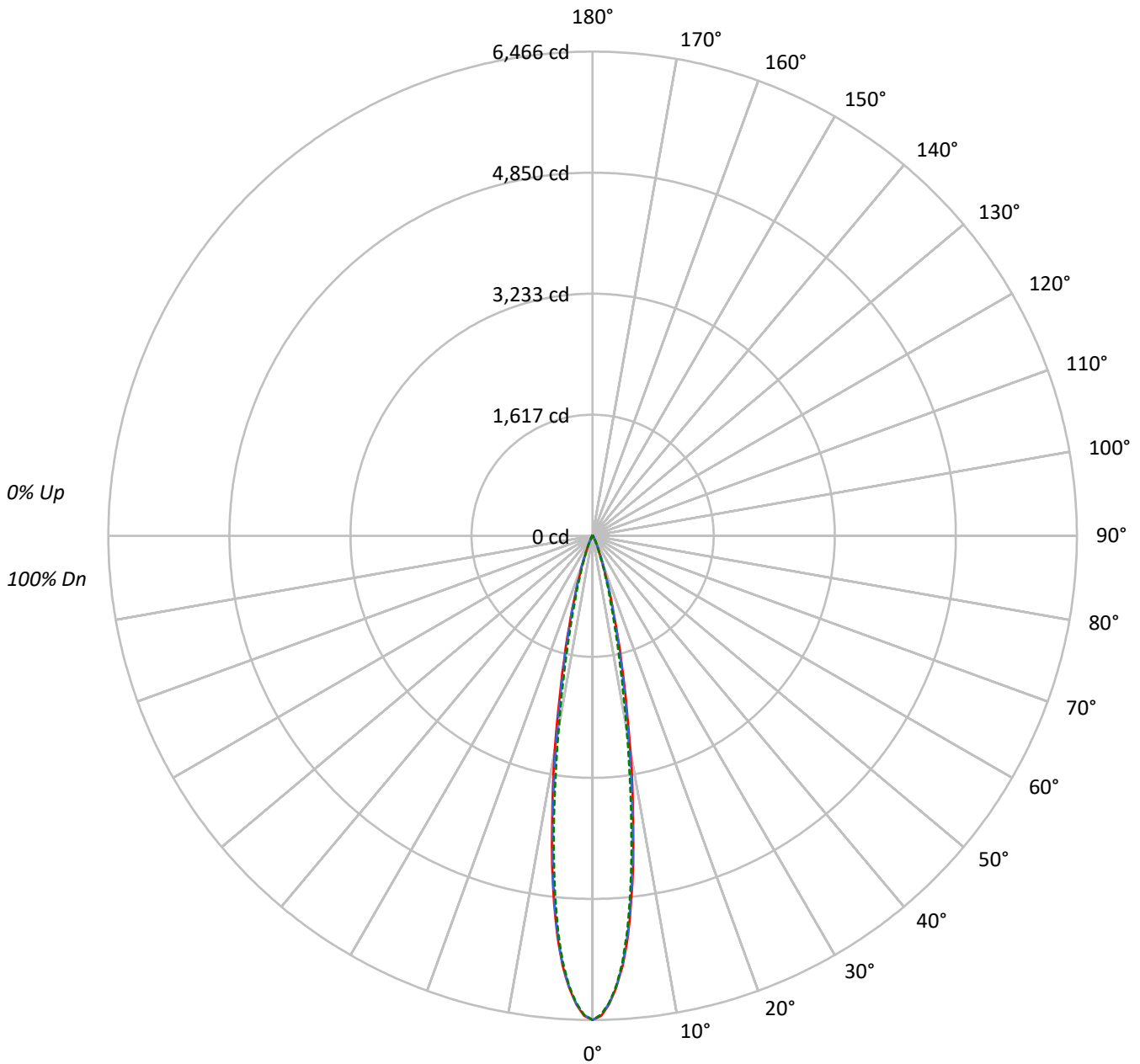
Lumens per Lamp: N/A  
Luminaire Lumens: 832.7 lumens  
Efficiency: N/A  
Efficacy: 119.0 lumens/watt  
Spacing Criteria (0/90/45): 0.32 / 0.3 / 0.32  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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°	3190225	3190225	3190225
5°	2665267	2652539	2621141
10°	1452119	1395560	1306236
15°	575735	561025	481601
20°	193472	206702	170843
25°	67120	72509	64453
30°	24553	26775	26262
35°	15780	18490	14033
40°	8308	9918	10176
45°	7605	5861	5512
50°	4528	3070	2303
55°	0	0	0
60°	2960	2960	987
65°	2335	584	0
70°	0	2164	2885
75°	0	4766	0
80°	0	0	0
85°	0	2830	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	422.8	50.8
10°-20°	314.7	37.8
20°-30°	69.6	8.4
30°-40°	15.5	1.9
40°-50°	6.3	0.8
50°-60°	1.1	0.1
60°-70°	1.1	0.1
70°-80°	0.9	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°	807.1	96.9
0°-40°	822.5	98.8
0°-60°	829.9	99.7
0°-90°	832.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	832.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6466	6466	6466	6466	6466	
5°	5382	5359	5356	5336	5293	429
15°	1127	1124	1098	996	943	331
25°	123	138	133	123	118	67
35°	26	26	31	25	23	15
45°	11	9	8	8	8	7
55°	0	0	0	0	0	1
65°	2	1	0	0	0	2
75°	0	0	2	0	0	1
85°	0	0	0	2	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6466.3	6466.3	6466.3	6466.3	6466.3
1°	6413.3	6387.1	6399.9	6407.4	6396.5
2°	6263.7	6232.0	6252.4	6254.3	6243.4
3°	6040.9	6026.5	6033.0	6035.4	6013.6
4°	5755.6	5734.8	5739.3	5733.8	5707.1
5°	5381.7	5359.4	5356.0	5335.7	5292.6
6°	4924.6	4911.7	4888.5	4853.8	4796.4
7°	4434.8	4424.4	4384.3	4321.9	4255.6
8°	3898.0	3898.0	3840.1	3753.9	3678.1
9°	3389.9	3371.1	3297.3	3193.3	3120.0
10°	2898.6	2873.4	2785.7	2680.2	2607.4
11°	2433.6	2406.8	2322.7	2214.7	2147.3
12°	2032.0	2017.6	1952.2	1833.4	1766.0
13°	1692.7	1673.9	1616.4	1504.0	1446.6
14°	1397.1	1373.3	1327.2	1224.2	1168.3
15°	1127.2	1123.7	1098.4	995.9	942.9
16°	921.1	919.2	895.4	795.3	773.6
17°	739.4	749.8	742.9	650.7	626.0
18°	575.5	596.3	601.2	518.0	493.3
19°	463.0	482.9	491.3	418.5	397.7
20°	368.5	387.3	393.7	339.2	325.4
22.5°	209.0	234.2	235.2	207.0	192.6
25°	123.3	137.7	133.2	123.3	118.4
26°	103.5	117.4	110.4	107.5	103.5
27°	87.2	96.6	91.1	86.2	89.6
28°	72.3	78.7	73.3	74.8	69.3
29°	57.4	68.3	60.4	61.9	57.4
30°	43.1	53.0	47.0	49.5	46.1
32.5°	32.2	35.2	31.2	35.2	35.2
35°	26.2	26.2	30.7	24.8	23.3
37.5°	11.9	9.4	10.4	8.4	9.9
40°	12.9	14.4	15.4	12.9	15.8
42.5°	8.9	11.9	11.9	7.9	13.9
45°	10.9	8.9	8.4	8.4	7.9
47.5°	5.0	3.5	4.0	4.5	6.9
50°	5.9	2.5	4.0	5.9	3.0
52.5°	2.0	0.0	2.5	0.0	1.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.5	1.0	0.0
60°	3.0	3.5	3.0	2.0	1.0
62.5°	5.0	1.0	1.5	2.0	0.0
65°	2.0	1.0	0.5	0.0	0.0
67.5°	0.0	0.0	1.5	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	2.5	0.0	0.0
77.5°	1.0	0.0	2.0	0.0	0.0
80°	0.0	1.0	0.0	0.0	0.0
82.5°	0.0	0.0	2.5	2.0	0.0
85°	0.0	0.5	0.5	1.5	0.0
87.5°	0.0	1.5	2.0	0.5	1.0
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	1.5	1.0	2.0
72.5°	0.0	0.5	2.0	3.0	1.0



(END OF REPORT)