

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: P314712

Luminaire Tested: **LDA2B05SP8040D010 PIN1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P314712  
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: LDA2B05SP8040D010 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**

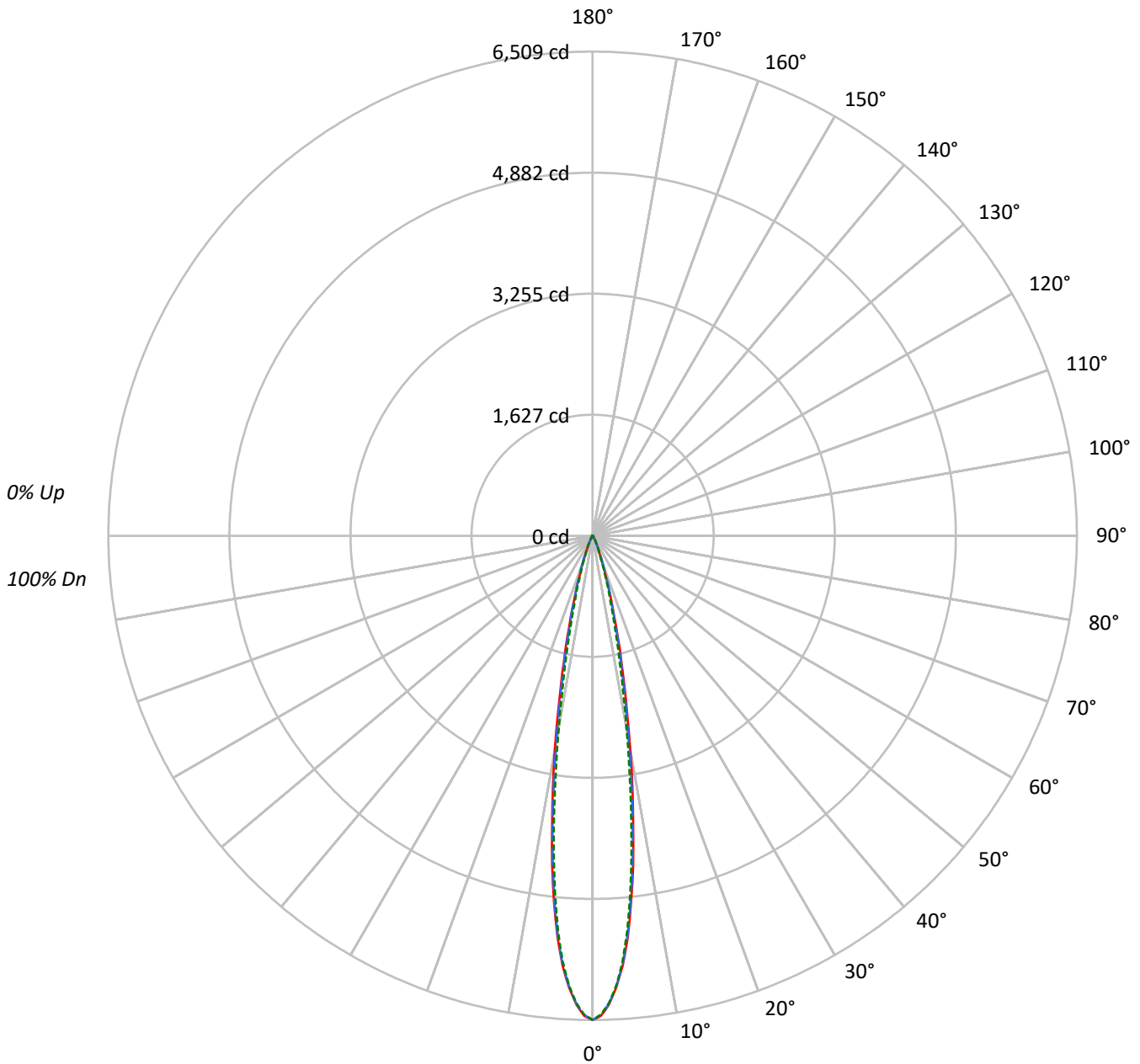
Lumens per Lamp: N/A  
Luminaire Lumens: 838.2 lumens  
Efficiency: N/A  
Efficacy: 119.7 lumens/watt  
Spacing Criteria (0/90/45): 0.32 / 0.3 / 0.32  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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°	3211144	3211144	3211144
5°	2682749	2669923	2638326
10°	1461638	1404727	1314803
15°	579515	564703	484768
20°	194732	208067	171946
25°	67556	72999	64834
30°	24724	27003	26433
35°	15900	18611	14093
40°	8372	9983	10305
45°	7675	5931	5582
50°	4605	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°	425.6	50.8
10°-20°	316.8	37.8
20°-30°	70.1	8.4
30°-40°	15.6	1.9
40°-50°	6.4	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°	812.4	96.9
0°-40°	827.9	98.8
0°-60°	835.4	99.7
0°-90°	838.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	838.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6509	6509	6509	6509	6509	
5°	5417	5395	5391	5371	5327	432
15°	1135	1131	1106	1002	949	334
25°	124	139	134	124	119	68
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°	6508.7	6508.7	6508.7	6508.7	6508.7
1°	6455.4	6429.0	6441.9	6449.4	6438.4
2°	6304.8	6272.9	6293.4	6295.4	6284.4
3°	6080.5	6066.1	6072.6	6075.0	6053.1
4°	5793.4	5772.5	5777.0	5771.5	5744.6
5°	5417.0	5394.6	5391.1	5370.7	5327.3
6°	4956.9	4944.0	4920.6	4885.7	4827.8
7°	4463.9	4453.5	4413.1	4350.3	4283.5
8°	3923.6	3923.6	3865.3	3778.5	3702.3
9°	3412.1	3393.2	3318.9	3214.2	3140.5
10°	2917.6	2892.2	2804.0	2697.8	2624.5
11°	2449.6	2422.6	2337.9	2229.2	2161.4
12°	2045.3	2030.8	1965.0	1845.4	1777.6
13°	1703.8	1684.9	1627.1	1513.9	1456.1
14°	1406.2	1382.3	1335.9	1232.3	1175.9
15°	1134.6	1131.1	1105.6	1002.5	949.1
16°	927.2	925.2	901.3	800.6	778.6
17°	744.2	754.7	747.7	655.0	630.1
18°	579.2	600.2	605.2	521.4	496.5
19°	466.1	486.0	494.5	421.2	400.3
20°	370.9	389.8	396.3	341.5	327.5
22.5°	210.4	235.8	236.8	208.4	193.9
25°	124.1	138.6	134.1	124.1	119.1
26°	104.2	118.1	111.2	108.2	104.2
27°	87.7	97.2	91.7	86.7	90.2
28°	72.8	79.3	73.8	75.3	69.8
29°	57.8	68.8	60.8	62.3	57.8
30°	43.4	53.3	47.4	49.8	46.4
32.5°	32.4	35.4	31.4	35.4	35.4
35°	26.4	26.4	30.9	24.9	23.4
37.5°	12.0	9.5	10.5	8.5	10.0
40°	13.0	14.5	15.5	13.0	16.0
42.5°	9.0	12.0	12.0	8.0	14.0
45°	11.0	9.0	8.5	8.5	8.0
47.5°	5.0	3.5	4.0	4.5	7.0
50°	6.0	2.5	4.0	6.0	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)