

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: P314704

Luminaire Tested: **LDA2B05SP8027D010 PIN1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P314704  
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: LDA2B05SP8027D010 PIN1MMS  
Description: PORTFOLIO 2IN ADJ 500 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: 781.3 lumens  
Efficiency: N/A  
Efficacy: 111.6 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

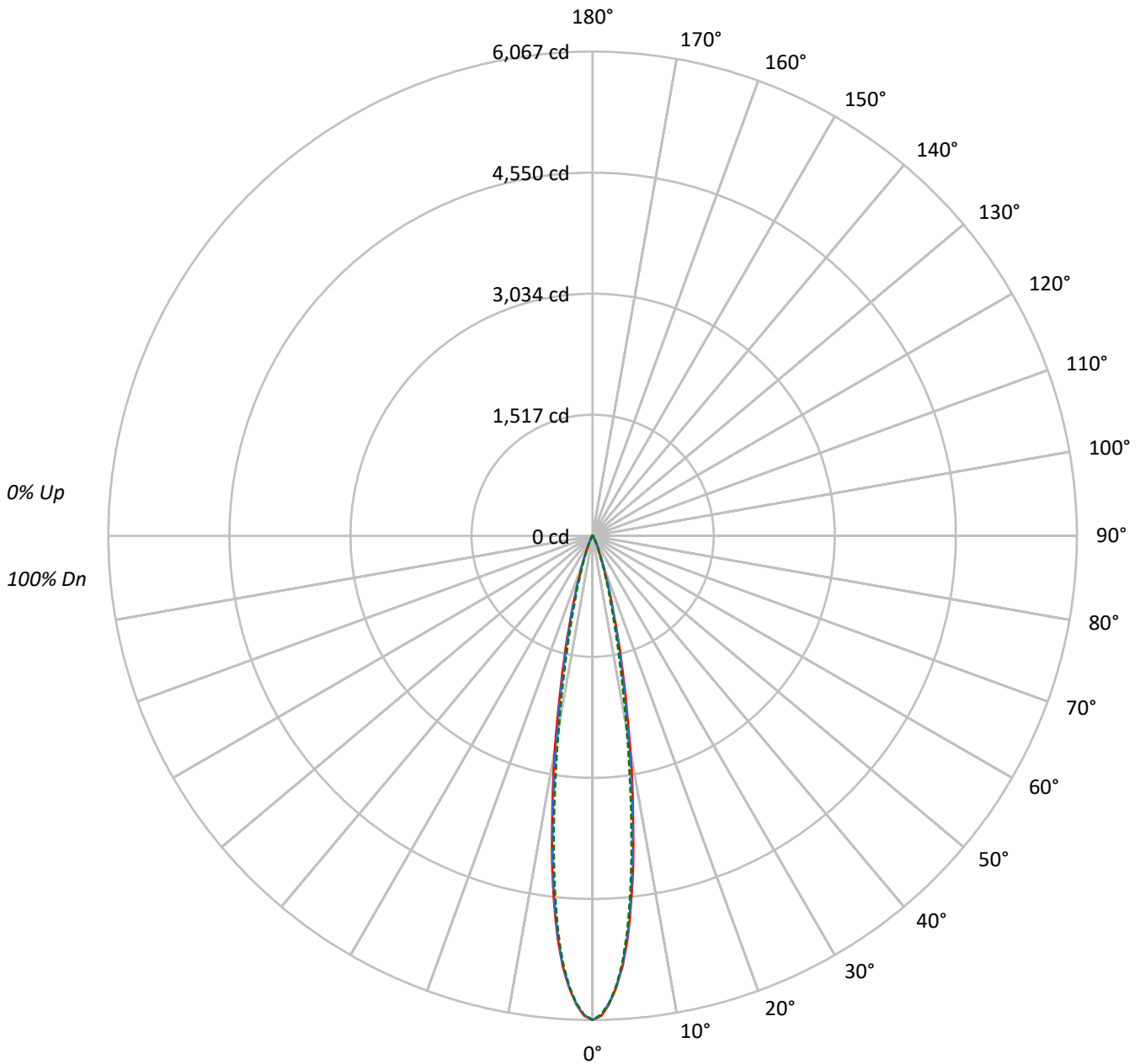
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2993423	2993423	2993423
5°	2500845	2488910	2459443
10°	1362546	1309442	1225680
15°	540186	526446	451925
20°	181501	193944	160290
25°	62983	68046	60479
30°	23015	25123	24610
35°	14816	17346	13130
40°	7793	9274	9596
45°	7117	5512	5163
50°	4298	2840	2149
55°	0	0	0
60°	2763	2763	888
65°	2218	584	0
70°	0	2019	2741
75°	0	4384	0
80°	0	0	0
85°	0	2830	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	396.7	50.8
10°-20°	295.3	37.8
20°-30°	65.3	8.4
30°-40°	14.5	1.9
40°-50°	5.9	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°	757.3	96.9
0°-40°	771.8	98.8
0°-60°	778.7	99.7
0°-90°	781.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	781.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6067	6067	6067	6067	6067	
5°	5050	5029	5026	5006	4966	403
15°	1058	1054	1031	934	885	311
25°	116	129	125	116	111	63
35°	25	25	29	23	22	14
45°	10	8	8	8	7	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°	6067.4	6067.4	6067.4	6067.4	6067.4
1°	6017.7	5993.0	6005.1	6012.1	6001.9
2°	5877.3	5847.6	5866.6	5868.5	5858.3
3°	5668.2	5654.7	5660.8	5663.1	5642.7
4°	5400.6	5381.0	5385.2	5380.1	5355.0
5°	5049.7	5028.8	5025.6	5006.5	4966.1
6°	4620.8	4608.7	4586.9	4554.4	4500.5
7°	4161.2	4151.5	4113.8	4055.3	3993.0
8°	3657.5	3657.5	3603.2	3522.3	3451.2
9°	3180.8	3163.1	3093.9	2996.3	2927.5
10°	2719.8	2696.1	2613.8	2514.9	2446.6
11°	2283.5	2258.4	2179.4	2078.1	2014.9
12°	1906.6	1893.1	1831.8	1720.3	1657.1
13°	1588.3	1570.6	1516.7	1411.2	1357.3
14°	1310.9	1288.6	1245.4	1148.7	1096.2
15°	1057.6	1054.4	1030.7	934.5	884.8
16°	864.3	862.5	840.1	746.3	725.8
17°	693.8	703.5	697.0	610.6	587.4
18°	540.0	559.5	564.1	486.1	462.8
19°	434.5	453.1	461.0	392.7	373.1
20°	345.7	363.4	369.4	318.3	305.3
22.5°	196.1	219.8	220.7	194.2	180.8
25°	115.7	129.2	125.0	115.7	111.1
26°	97.1	110.1	103.6	100.8	97.1
27°	81.8	90.6	85.5	80.9	84.1
28°	67.8	73.9	68.8	70.2	65.1
29°	53.9	64.1	56.7	58.1	53.9
30°	40.4	49.7	44.1	46.5	43.2
32.5°	30.2	33.0	29.3	33.0	33.0
35°	24.6	24.6	28.8	23.2	21.8
37.5°	11.2	8.8	9.8	7.9	9.3
40°	12.1	13.5	14.4	12.1	14.9
42.5°	8.4	11.2	11.2	7.4	13.0
45°	10.2	8.4	7.9	7.9	7.4
47.5°	4.6	3.3	3.7	4.2	6.5
50°	5.6	2.3	3.7	5.6	2.8
52.5°	1.9	0.0	2.3	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°	4.6	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	2.3	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	2.3	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)