

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: P315964

Luminaire Tested: **LDA2B15SP8027D010 PINW1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P315964  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-7)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B15SP8027D010 PINW1MMS  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in  
Adj PinHole, White oculus, matte metallic silver finish  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1412.3 lumens  
Efficiency: N/A  
Efficacy: 100.2 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

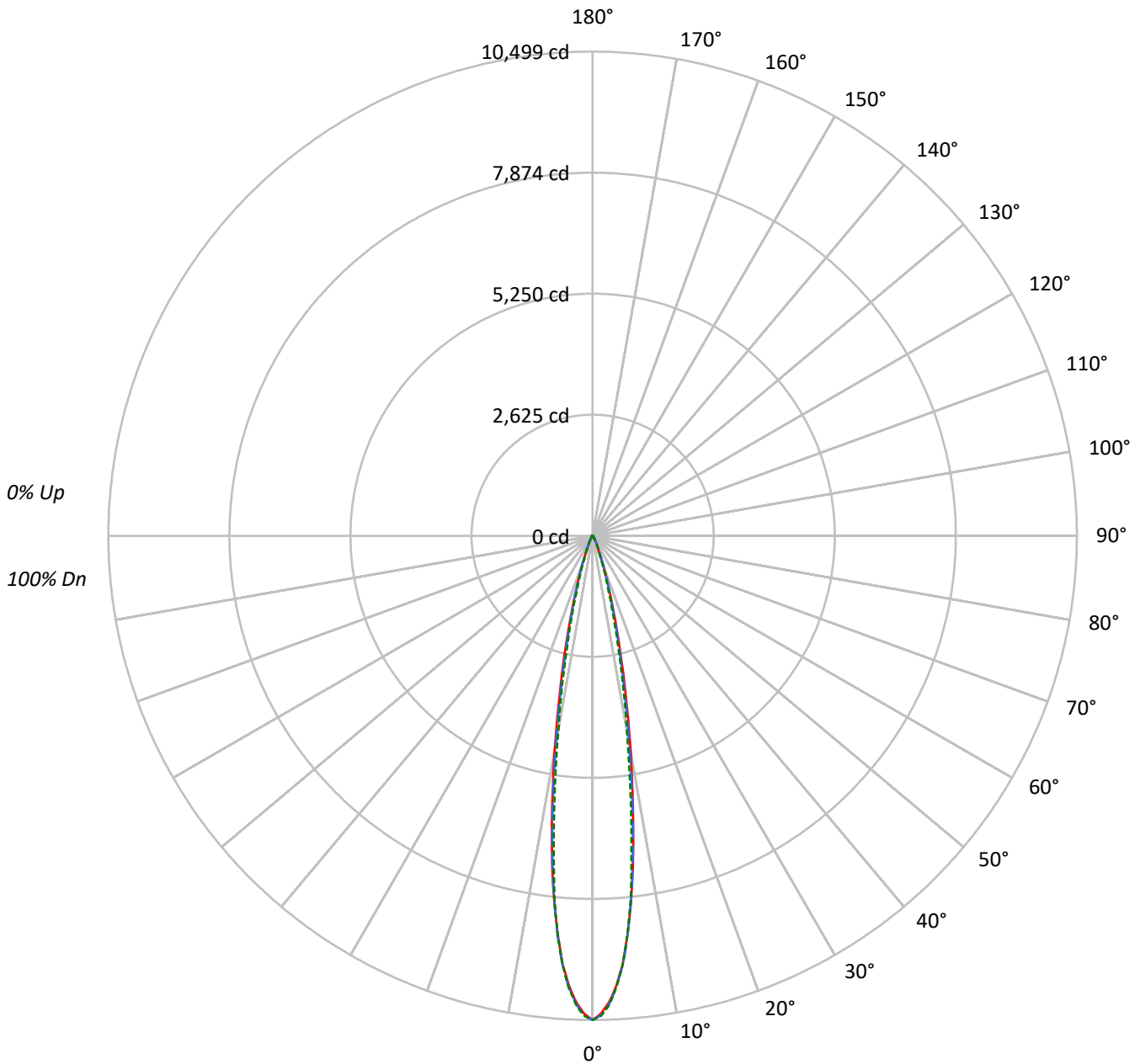
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96	96	98	96	95	94	92	91	89	87	85	83	81	80														
2	111	108	105	102	109	106	103	101	103	101	99	100	98	97	98	96	95	94	92	91	89	87	85	83	81	80	78	76	74	72	70														
3	108	104	100	97	106	102	99	97	100	97	95	98	95	94	96	94	92	91	89	87	85	83	81	80	78	76	74	72	70	68	66	64													
4	105	100	96	93	104	99	96	93	97	94	92	95	93	91	94	92	90	89	87	85	83	81	80	78	76	74	72	70	68	66	64	62													
5	102	97	93	90	101	96	93	90	95	91	89	93	90	88	92	89	88	87	85	83	81	80	78	76	74	72	70	68	66	64	62	60													
6	100	94	90	88	99	94	90	87	92	89	87	91	88	86	90	88	86	85	83	81	80	78	76	74	72	70	68	66	64	62	60	58													
7	98	92	88	85	97	91	88	85	90	87	85	89	86	84	88	86	84	83	81	80	78	76	74	72	70	68	66	64	62	60	58	56													
8	96	90	86	83	95	89	86	83	88	85	83	87	85	82	86	84	82	81	80	78	76	74	72	70	68	66	64	62	60	58	56	54													
9	94	88	84	81	93	87	84	81	86	83	81	85	83	81	84	82	81	80	78	76	74	72	70	68	66	64	62	60	58	56	54	52													
10	92	86	82	80	91	85	82	80	85	82	79	84	81	79	83	81	79	78	76	74	72	70	68	66	64	62	60	58	56	54	52	50													

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5180003	5180003	5180003
5°	4297352	4311318	4294925
10°	2378418	2292501	2135596
15°	962793	920859	817634
20°	322575	342001	276898
25°	122754	123190	116603
30°	55032	54120	52297
35°	26681	23790	18912
40°	17647	22284	15586
45°	4465	7326	6768
50°	1228	1842	2456
55°	11096	9720	15225
60°	15886	12729	20623
65°	7471	19729	18795
70°	6924	5770	6924
75°	3050	7625	21540
80°	36651	50288	45743
85°	0	22643	27171



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	687.7	48.7
10°-20°	520.9	36.9
20°-30°	118.4	8.4
30°-40°	35.0	2.5
40°-50°	11.7	0.8
50°-60°	10.3	0.7
60°-70°	12.4	0.9
70°-80°	7.9	0.6
80°-90°	8.2	0.6
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°	1326.9	94.0
0°-40°	1361.9	96.4
0°-60°	1383.9	98.0
0°-90°	1412.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1412.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10499	10499	10499	10499	10499	
5°	8677	8746	8705	8592	8672	696
15°	1885	1911	1803	1634	1601	548
25°	226	242	226	224	214	118
35°	44	49	40	46	31	35
45°	6	18	10	18	10	10
55°	13	18	11	17	18	5
65°	6	14	17	16	16	7
75°	2	6	4	7	11	4
85°	0	0	4	4	5	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10499.4	10499.4	10499.4	10499.4	10499.4
1°	10364.1	10406.0	10402.0	10385.1	10414.9
2°	10125.8	10176.5	10171.7	10134.6	10187.8
3°	9776.3	9821.4	9814.2	9761.0	9819.0
4°	9309.3	9360.8	9340.7	9261.0	9335.0
5°	8677.2	8745.6	8705.4	8591.8	8672.3
6°	7976.6	8034.6	7971.0	7820.4	7899.3
7°	7192.3	7228.6	7144.8	6951.6	6898.4
8°	6336.4	6383.9	6267.1	6041.6	5983.7
9°	5518.2	5534.4	5392.6	5152.7	5079.4
10°	4747.6	4735.6	4576.1	4332.9	4262.9
11°	4017.3	4001.2	3832.9	3608.2	3630.8
12°	3353.0	3384.4	3188.7	2985.0	2989.0
13°	2807.0	2810.3	2642.0	2447.9	2436.6
14°	2298.1	2327.9	2183.8	2009.9	1977.6
15°	1885.0	1910.8	1802.9	1633.8	1600.8
16°	1509.0	1541.2	1463.9	1310.9	1267.4
17°	1215.1	1256.2	1205.4	1077.4	1027.5
18°	971.9	1003.3	991.2	859.2	818.1
19°	767.4	810.9	814.1	703.8	654.7
20°	614.4	653.8	651.4	566.1	527.4
22.5°	352.7	373.6	374.4	334.2	311.6
25°	225.5	242.4	226.3	223.9	214.2
26°	195.7	209.4	191.6	191.6	182.8
27°	158.6	170.7	153.8	161.0	149.0
28°	133.7	146.6	132.1	130.4	128.8
29°	111.1	123.2	104.7	112.7	107.9
30°	96.6	105.5	95.0	107.1	91.8
32.5°	74.9	82.1	63.6	80.5	60.4
35°	44.3	49.1	39.5	45.9	31.4
37.5°	45.9	47.5	42.7	47.5	44.3
40°	27.4	28.2	34.6	34.6	24.2
42.5°	25.8	25.0	15.3	24.2	19.3
45°	6.4	18.5	10.5	18.5	9.7
47.5°	4.8	6.4	6.4	12.9	12.9
50°	1.6	6.4	2.4	4.8	3.2
52.5°	0.0	15.3	3.2	11.3	9.7
55°	12.9	18.5	11.3	16.9	17.7
57.5°	1.6	12.9	6.4	13.7	9.7
60°	16.1	21.7	12.9	23.4	20.9
62.5°	1.6	14.5	16.9	12.9	11.3
65°	6.4	13.7	16.9	16.1	16.1
67.5°	8.1	13.7	10.5	10.5	14.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	1.6	5.6	4.0	7.2	11.3
77.5°	1.6	6.4	5.6	12.9	9.7
80°	12.9	14.5	17.7	23.4	16.1
82.5°	11.3	11.3	17.7	12.9	9.7
85°	0.0	0.0	4.0	4.0	4.8
87.5°	0.0	3.2	8.1	6.4	11.3
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180°    - - 45°-225°    - - - - 90°-270°







70°	4.8	1.6	4.0	4.0	4.8
72.5°	1.6	7.2	6.4	4.0	8.1



(END OF REPORT)