

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: P282298

Luminaire Tested: **LDA2B158035D010 EU2B15NFL258035 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282298  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B158035D010 EU2B15NFL258035 2LBAPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MMS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1321.3 lumens  
Efficiency: N/A  
Efficacy: 93.7 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

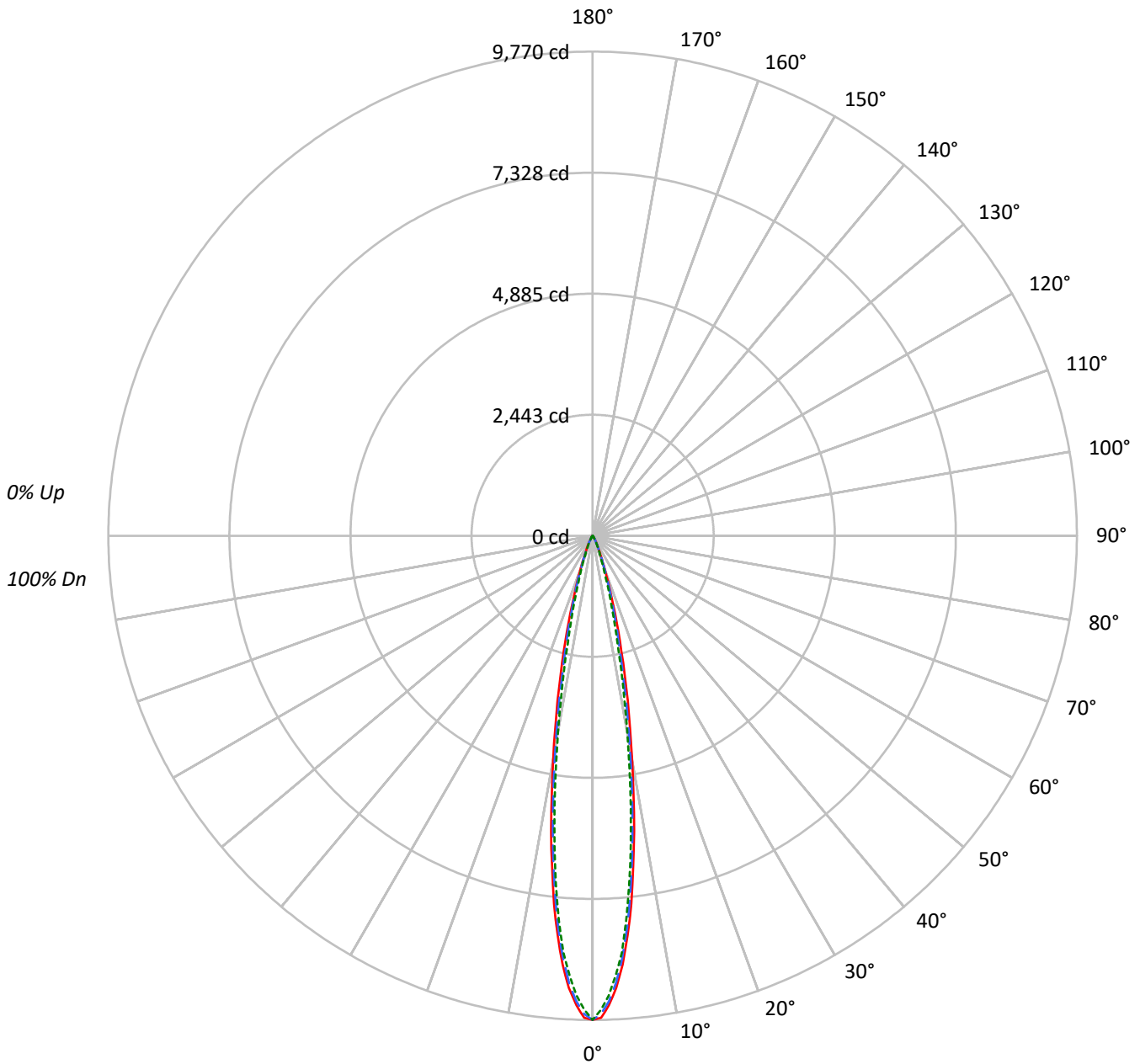
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	101	100	98	99	97	96	95				95															
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92				92															
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90				90															
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88				88															
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86				86															
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84				84															
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83				83															
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81				81															
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79				79															

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

	0°	45°	90°
0°	4820095	4820095	4820095
5°	4010802	3937308	3857820
10°	2297361	2155786	2012007
15°	1021787	907529	760479
20°	370667	348511	276110
25°	142351	132879	114425
30°	61412	57082	50645
35°	29030	29030	24031
40°	14555	15070	12108
45°	8442	7884	7326
50°	5757	5219	5219
55°	4559	3269	3871
60°	3750	2269	2960
65°	2685	1751	2685
70°	2164	1154	2164
75°	1525	1525	1525
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	635.4	48.1
10°-20°	514.2	38.9
20°-30°	124.0	9.4
30°-40°	31.6	2.4
40°-50°	9.4	0.7
50°-60°	4.0	0.3
60°-70°	2.0	0.1
70°-80°	0.7	0.1
80°-90°	0.0	0.0
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°	1273.6	96.4
0°-40°	1305.3	98.8
0°-60°	1318.7	99.8
0°-90°	1321.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1321.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9770	9770	9770	9770	9770	
5°	8099	8024	7950	7881	7790	655
15°	2000	1953	1777	1600	1489	570
25°	262	263	244	222	210	135
35°	48	49	48	44	40	33
45°	12	12	11	10	10	10
55°	5	4	4	4	4	5
65°	2	2	2	2	2	3
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9769.9	9769.9	9769.9	9769.9	9769.9
1°	9726.2	9658.4	9650.1	9692.3	9567.9
2°	9477.5	9429.3	9401.4	9426.3	9285.4
3°	9136.2	9089.5	9039.0	9039.7	8882.3
4°	8671.3	8634.4	8549.2	8523.6	8432.4
5°	8098.6	8024.0	7950.2	7880.9	7789.7
6°	7465.7	7369.2	7263.7	7160.5	7067.1
7°	6721.2	6657.2	6517.8	6376.9	6297.8
8°	6021.2	5918.0	5755.2	5578.9	5511.9
9°	5268.5	5194.6	5007.8	4802.8	4735.8
10°	4585.8	4508.9	4303.2	4074.9	4016.2
11°	3945.3	3873.0	3659.0	3419.4	3356.8
12°	3403.6	3301.1	3055.4	2847.5	2786.4
13°	2864.1	2794.0	2561.1	2355.4	2237.1
14°	2405.2	2347.2	2136.2	1955.3	1830.3
15°	2000.5	1953.1	1776.8	1600.4	1488.9
16°	1641.1	1611.7	1472.3	1302.0	1210.9
17°	1331.4	1304.3	1215.4	1058.7	981.8
18°	1075.2	1071.5	997.6	862.0	793.4
19°	884.6	883.1	815.3	701.5	645.0
20°	706.0	715.8	663.8	564.4	525.9
21°	575.7	580.9	539.5	464.2	429.5
22°	468.7	472.4	445.3	383.5	364.7
23°	384.3	386.5	363.9	318.0	301.4
24°	316.5	318.0	297.6	265.2	250.9
25°	261.5	263.0	244.1	221.5	210.2
26°	217.0	218.5	201.9	186.1	174.8
27°	180.1	183.1	166.5	156.7	144.7
28°	153.7	154.5	139.4	133.4	122.1
29°	125.8	130.4	117.5	112.3	104.0
30°	107.8	110.0	100.2	96.4	88.9
32.5°	71.6	73.1	68.6	65.6	59.5
35°	48.2	49.0	48.2	43.7	39.9
37.5°	33.2	33.2	33.9	28.6	27.1
40°	22.6	22.6	23.4	19.6	18.8
42.5°	16.6	16.6	15.8	13.6	13.6
45°	12.1	12.1	11.3	10.5	10.5
47.5°	9.8	9.0	8.3	8.3	8.3
50°	7.5	7.5	6.8	6.0	6.8
52.5°	6.0	6.0	5.3	5.3	5.3
55°	5.3	4.5	3.8	3.8	4.5
57.5°	3.8	3.8	3.0	3.0	3.8
60°	3.8	3.0	2.3	3.0	3.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	2.3	1.5	1.5	1.5	1.5
70°	1.5	1.5	0.8	0.8	1.5
72.5°	0.8	0.8	0.8	0.8	0.8
75°	0.8	0.8	0.8	0.8	0.8
77.5°	0.8	0.8	0.0	0.0	0.8
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	3.0	2.3	2.3	2.3	2.3
65°	2.3	2.3	1.5	1.5	2.3



(END OF REPORT)