

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: P282328

Luminaire Tested: **LDA2B159030D010 EU2B15NFL259030 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282328  
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: LDA2B159030D010 EU2B15NFL259030 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: 1054.0 lumens  
Efficiency: N/A  
Efficacy: 74.8 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

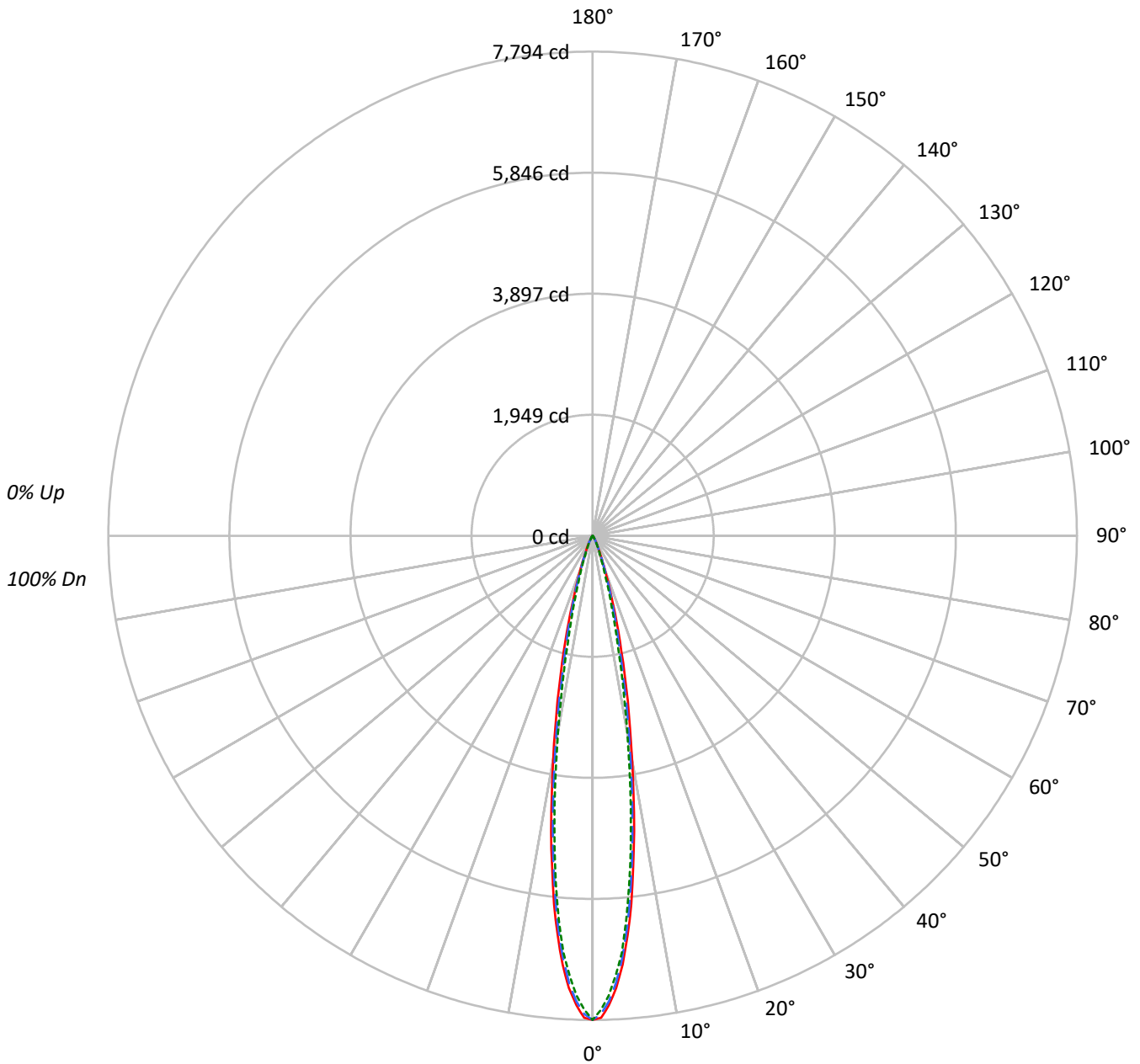
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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																			
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97																			
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95																			
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92																			
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90																			
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88																			
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86																			
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84																			
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83																			
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81																			
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79																			

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

	0°	45°	90°
0°	3845262	3845262	3845262
5°	3199638	3141001	3077609
10°	1832758	1719789	1605066
15°	815131	723959	606688
20°	295694	278053	220300
25°	113554	106042	91290
30°	48993	45518	40391
35°	23188	23188	19213
40°	11593	11979	9661
45°	6698	6279	5861
50°	4605	4145	4145
55°	3613	2580	3097
60°	2960	1776	2368
65°	2101	1401	2101
70°	1731	865	1731
75°	1144	1144	1144
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	506.9	48.1
10°-20°	410.2	38.9
20°-30°	98.9	9.4
30°-40°	25.2	2.4
40°-50°	7.5	0.7
50°-60°	3.2	0.3
60°-70°	1.5	0.1
70°-80°	0.5	0.0
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°	1016.1	96.4
0°-40°	1041.3	98.8
0°-60°	1052.0	99.8
0°-90°	1054.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1054.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7794	7794	7794	7794	7794	
5°	6461	6401	6342	6287	6214	522
15°	1596	1558	1417	1277	1188	455
25°	209	210	195	177	168	108
35°	38	39	38	35	32	27
45°	10	10	9	8	8	8
55°	4	4	3	3	4	4
65°	2	2	1	1	2	2
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°	7794.0	7794.0	7794.0	7794.0	7794.0
1°	7759.1	7705.0	7698.4	7732.1	7632.9
2°	7560.8	7522.3	7500.0	7519.9	7407.5
3°	7288.5	7251.2	7210.9	7211.5	7085.9
4°	6917.6	6888.1	6820.2	6799.8	6727.0
5°	6460.7	6401.2	6342.3	6287.0	6214.3
6°	5955.8	5878.9	5794.7	5712.3	5637.8
7°	5361.9	5310.8	5199.6	5087.2	5024.1
8°	4803.5	4721.1	4591.3	4450.6	4397.1
9°	4203.0	4144.1	3995.0	3831.5	3778.0
10°	3658.4	3597.0	3432.9	3250.8	3203.9
11°	3147.4	3089.7	2919.0	2727.8	2677.9
12°	2715.2	2633.5	2437.5	2271.6	2222.9
13°	2284.8	2228.9	2043.2	1879.1	1784.7
14°	1918.7	1872.5	1704.1	1559.9	1460.1
15°	1595.9	1558.1	1417.4	1276.8	1187.8
16°	1309.2	1285.8	1174.6	1038.7	966.0
17°	1062.2	1040.5	969.6	844.6	783.2
18°	857.8	854.8	795.9	687.7	633.0
19°	705.7	704.5	650.4	559.6	514.5
20°	563.2	571.1	529.6	450.2	419.6
21°	459.2	463.5	430.4	370.3	342.6
22°	373.9	376.9	355.3	306.0	290.9
23°	306.6	308.4	290.3	253.7	240.4
24°	252.5	253.7	237.4	211.6	200.2
25°	208.6	209.8	194.8	176.7	167.7
26°	173.1	174.3	161.1	148.5	139.5
27°	143.7	146.1	132.8	125.0	115.4
28°	122.6	123.2	111.2	106.4	97.4
29°	100.4	104.0	93.8	89.6	83.0
30°	86.0	87.8	79.9	76.9	70.9
32.5°	57.1	58.3	54.7	52.3	47.5
35°	38.5	39.1	38.5	34.9	31.9
37.5°	26.4	26.4	27.0	22.8	21.6
40°	18.0	18.0	18.6	15.6	15.0
42.5°	13.2	13.2	12.6	10.8	10.8
45°	9.6	9.6	9.0	8.4	8.4
47.5°	7.8	7.2	6.6	6.6	6.6
50°	6.0	6.0	5.4	4.8	5.4
52.5°	4.8	4.8	4.2	4.2	4.2
55°	4.2	3.6	3.0	3.0	3.6
57.5°	3.0	3.0	2.4	2.4	3.0
60°	3.0	2.4	1.8	2.4	2.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1.8	1.2	1.2	1.2	1.2
70°	1.2	1.2	0.6	0.6	1.2
72.5°	0.6	0.6	0.6	0.6	0.6
75°	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.0	0.0	0.6
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°	2.4	1.8	1.8	1.8	1.8
65°	1.8	1.8	1.2	1.2	1.8



(END OF REPORT)