

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: P282668

Luminaire Tested: **LDA2B108035D010 EU2B10NFL258035 2LBALPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282668  
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: LDA2B108035D010 EU2B10NFL258035 2LBALPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 925.1 lumens  
Efficiency: N/A  
Efficacy: 92.5 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

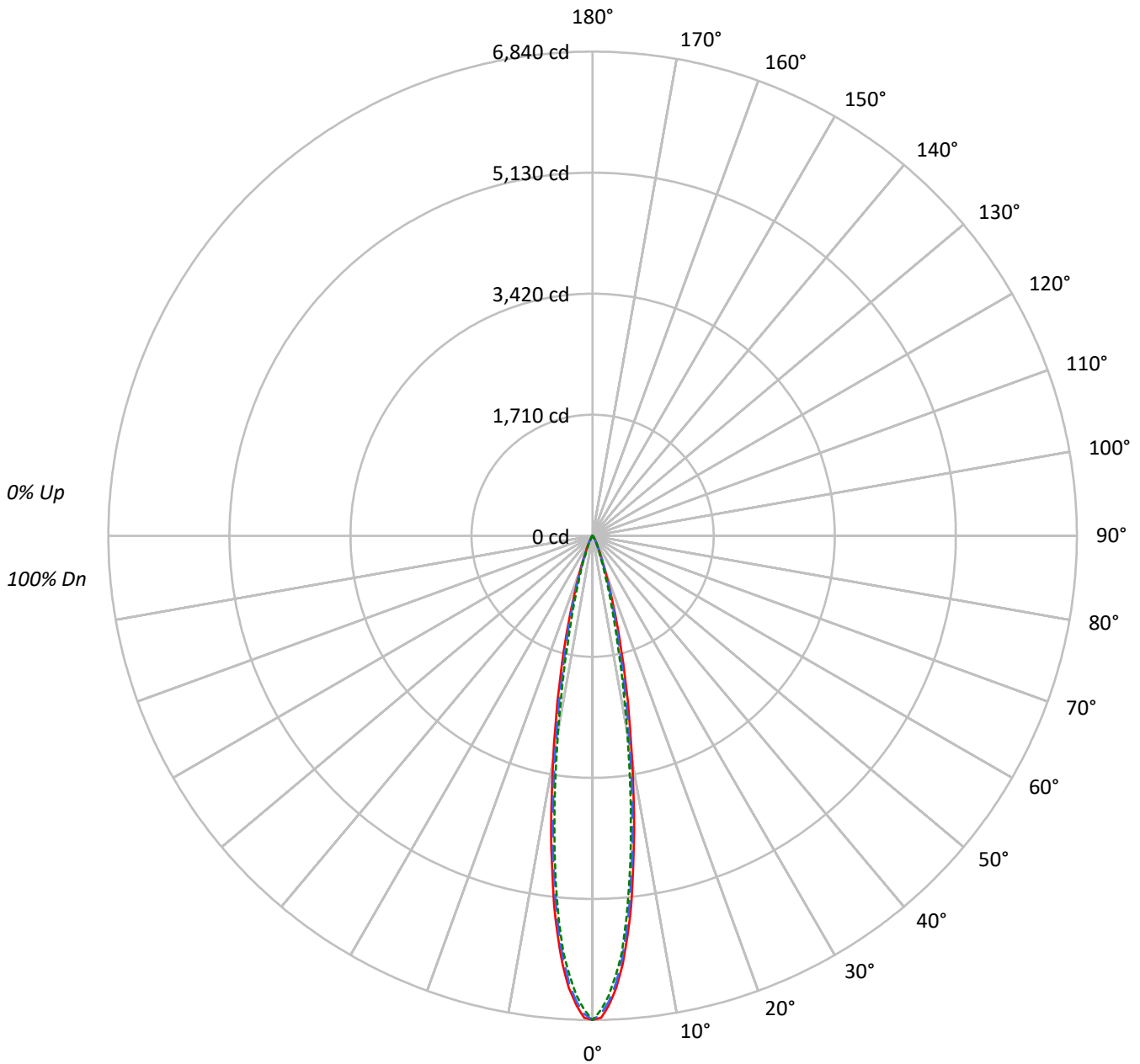
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3374841	3374841	3374841
5°	2808195	2756739	2701074
10°	1608523	1509381	1408685
15°	715430	635393	532473
20°	259520	244031	193314
25°	99673	93032	80130
30°	42954	39992	35491
35°	20357	20357	16864
40°	10176	10562	8501
45°	5861	5512	5163
50°	4068	3607	3607
55°	3183	2236	2752
60°	2565	1579	2072
65°	1868	1284	1868
70°	1587	721	1587
75°	953	953	953
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	444.9	48.1
10°-20°	360.0	38.9
20°-30°	86.8	9.4
30°-40°	22.1	2.4
40°-50°	6.6	0.7
50°-60°	2.8	0.3
60°-70°	1.4	0.1
70°-80°	0.4	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°	891.8	96.4
0°-40°	913.9	98.8
0°-60°	923.3	99.8
0°-90°	925.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	925.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6840	6840	6840	6840	6840	
5°	5670	5618	5566	5518	5454	459
15°	1401	1368	1244	1121	1042	399
25°	183	184	171	155	147	95
35°	34	34	34	31	28	23
45°	8	8	8	7	7	7
55°	4	3	3	3	3	3
65°	2	2	1	1	2	2
75°	0	0	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6840.5	6840.5	6840.5	6840.5	6840.5
1°	6809.9	6762.4	6756.6	6786.1	6699.1
2°	6635.8	6602.0	6582.5	6599.9	6501.2
3°	6396.8	6364.1	6328.7	6329.2	6219.0
4°	6071.3	6045.4	5985.8	5967.9	5904.0
5°	5670.3	5618.1	5566.4	5517.8	5454.0
6°	5227.1	5159.6	5085.8	5013.5	4948.1
7°	4705.9	4661.1	4563.5	4464.8	4409.4
8°	4215.8	4143.5	4029.6	3906.1	3859.2
9°	3688.8	3637.1	3506.2	3362.7	3315.8
10°	3210.8	3157.0	3012.9	2853.1	2811.9
11°	2762.3	2711.7	2561.9	2394.1	2350.3
12°	2383.0	2311.3	2139.3	1993.7	1950.9
13°	2005.3	1956.2	1793.2	1649.2	1566.4
14°	1684.0	1643.4	1495.7	1369.0	1281.5
15°	1400.7	1367.5	1244.0	1120.6	1042.5
16°	1149.0	1128.5	1030.9	911.6	847.8
17°	932.2	913.2	851.0	741.2	687.4
18°	752.8	750.2	698.5	603.5	555.5
19°	619.4	618.3	570.8	491.2	451.6
20°	494.3	501.2	464.8	395.1	368.2
21°	403.1	406.8	377.7	325.0	300.7
22°	328.1	330.8	311.8	268.5	255.3
23°	269.1	270.6	254.8	222.6	211.0
24°	221.6	222.6	208.4	185.7	175.7
25°	183.1	184.1	170.9	155.1	147.2
26°	151.9	153.0	141.4	130.3	122.4
27°	126.1	128.2	116.6	109.7	101.3
28°	107.6	108.2	97.6	93.4	85.5
29°	88.1	91.3	82.3	78.6	72.8
30°	75.4	77.0	70.2	67.5	62.3
32.5°	50.1	51.2	48.0	45.9	41.7
35°	33.8	34.3	33.8	30.6	28.0
37.5°	23.2	23.2	23.7	20.0	19.0
40°	15.8	15.8	16.4	13.7	13.2
42.5°	11.6	11.6	11.1	9.5	9.5
45°	8.4	8.4	7.9	7.4	7.4
47.5°	6.9	6.3	5.8	5.8	5.8
50°	5.3	5.3	4.7	4.2	4.7
52.5°	4.2	4.2	3.7	3.7	3.7
55°	3.7	3.2	2.6	2.6	3.2
57.5°	2.6	2.6	2.1	2.1	2.6
60°	2.6	2.1	1.6	2.1	2.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1.6	1.1	1.1	1.1	1.1
70°	1.1	1.1	0.5	0.5	1.1
72.5°	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.0	0.0	0.5
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°	2.1	1.6	1.6	1.6	1.6
65°	1.6	1.6	1.1	1.1	1.6



(END OF REPORT)