

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: P283680

Luminaire Tested: **LDA2B159035D010 EU2B15FL409035 2LBALPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283680  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B159035D010 EU2B15FL409035 2LBALPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 964.4 lumens  
Efficiency: N/A  
Efficacy: 68.4 lumens/watt  
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

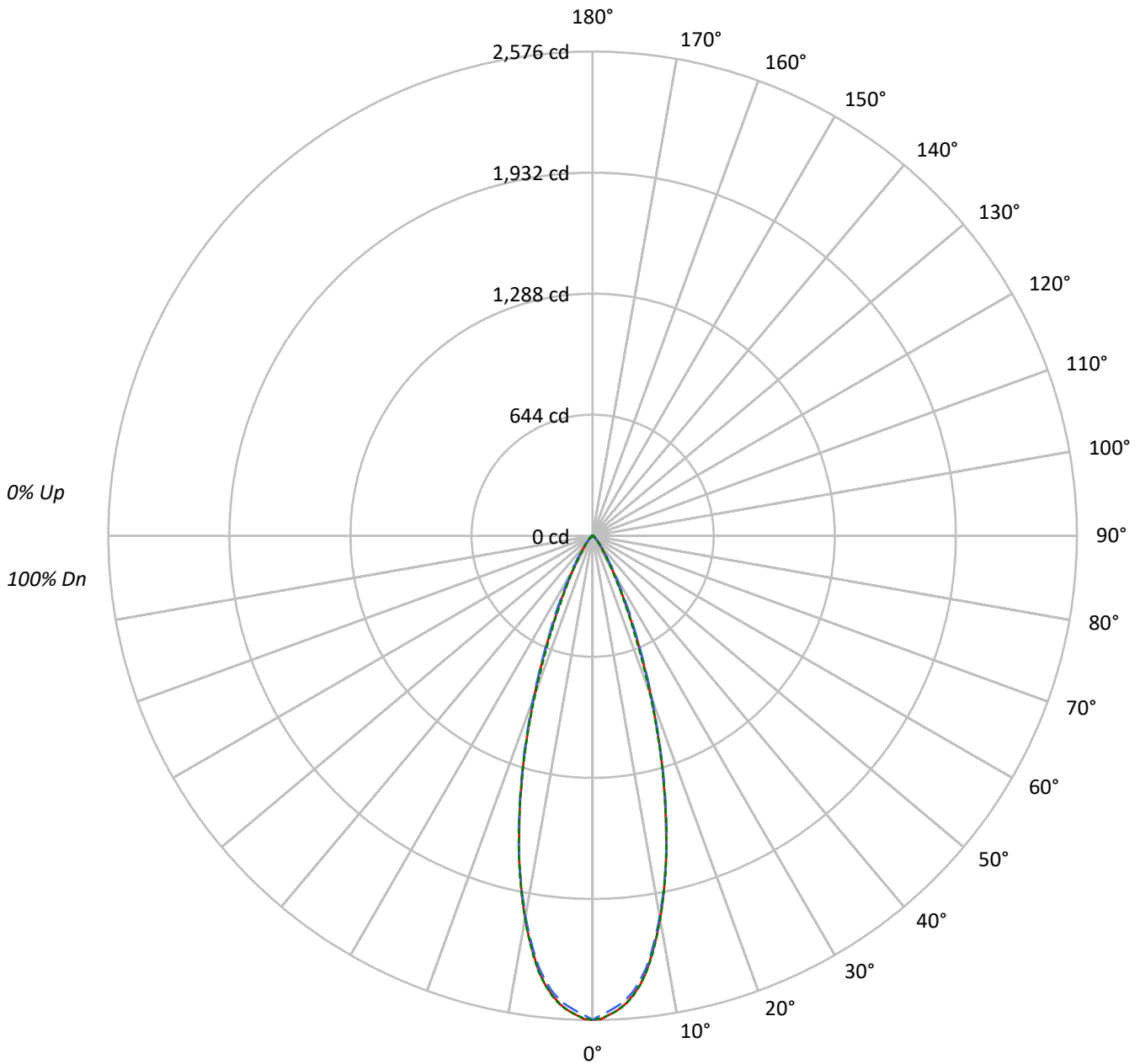
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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																			
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69																			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67																			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64																			

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

	0°	45°	90°
0°	1270653	1270653	1270653
5°	1216028	1206915	1217910
10°	1036012	1029499	1037064
15°	763595	768549	766046
20°	476670	485490	466169
25°	246216	264180	233859
30°	118039	135300	112513
35°	60951	67456	57036
40°	34134	35873	32395
45°	20792	20792	20025
50°	10822	13278	10822
55°	5591	8860	6021
60°	6414	6414	6414
65°	7004	7004	7004
70°	8655	7789	8655
75°	8197	8197	8197
80°	7671	7671	7671
85°	6227	6227	6227



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.5	23.0
10°-20°	406.9	42.2
20°-30°	220.6	22.9
30°-40°	70.8	7.3
40°-50°	24.1	2.5
50°-60°	8.5	0.9
60°-70°	6.2	0.6
70°-80°	4.5	0.5
80°-90°	1.3	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°	849.1	88.0
0°-40°	919.9	95.4
0°-60°	952.5	98.8
0°-90°	964.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	964.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2576	2576	2576	2576	2576	
5°	2455	2440	2437	2461	2459	222
15°	1495	1507	1505	1512	1500	405
25°	452	473	485	452	430	217
35°	101	106	112	102	95	68
45°	30	30	30	30	29	24
55°	6	8	10	8	7	7
65°	6	6	6	6	6	6
75°	4	4	4	4	4	5
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2575.5	2575.5	2575.5	2575.5	2575.5
1°	2571.2	2552.8	2550.1	2573.9	2568.5
2°	2550.6	2533.3	2530.6	2554.4	2549.5
3°	2527.9	2512.2	2506.8	2531.7	2528.4
4°	2497.6	2483.0	2478.1	2503.0	2500.3
5°	2455.4	2440.2	2437.0	2461.3	2459.2
6°	2403.4	2391.0	2385.0	2409.4	2405.0
7°	2338.5	2327.1	2320.6	2338.5	2340.7
8°	2254.1	2248.7	2241.1	2259.0	2259.0
9°	2164.3	2159.4	2151.3	2167.5	2167.5
10°	2068.0	2064.7	2055.0	2070.1	2070.1
11°	1962.5	1960.8	1953.8	1966.2	1966.2
12°	1851.5	1855.3	1848.8	1859.7	1855.9
13°	1740.6	1739.0	1739.5	1747.7	1741.7
14°	1615.1	1624.8	1626.5	1631.3	1622.1
15°	1495.0	1507.4	1504.7	1511.7	1499.8
16°	1372.1	1386.2	1385.7	1387.3	1375.9
17°	1257.4	1265.6	1266.1	1264.5	1250.4
18°	1135.2	1146.5	1146.5	1143.8	1127.0
19°	1015.6	1024.2	1030.2	1024.2	1004.8
20°	907.9	913.9	924.7	909.5	887.9
21°	804.6	810.0	819.2	801.3	777.5
22°	705.6	712.6	721.2	700.7	675.8
23°	613.0	629.3	632.5	604.4	583.3
24°	528.1	546.5	551.9	523.2	501.0
25°	452.3	472.9	485.3	451.8	429.6
26°	386.9	406.9	422.0	388.5	367.4
27°	329.5	350.6	366.3	334.9	314.9
28°	280.3	300.8	317.1	287.8	268.9
29°	243.5	255.4	271.6	247.3	230.0
30°	207.2	220.2	237.5	212.6	197.5
32.5°	142.3	149.3	162.9	147.7	135.8
35°	101.2	105.5	112.0	101.7	94.7
37.5°	72.0	74.1	77.9	72.0	68.2
40°	53.0	54.1	55.7	52.5	50.3
42.5°	39.5	40.0	40.0	39.0	37.9
45°	29.8	30.3	29.8	29.8	28.7
47.5°	21.6	23.3	22.7	22.7	21.1
50°	14.1	17.3	17.3	16.8	14.1
52.5°	8.7	11.9	13.5	11.9	9.2
55°	6.5	8.1	10.3	8.1	7.0
57.5°	6.5	6.5	7.6	6.5	6.5
60°	6.5	6.5	6.5	6.5	6.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	6.0	6.0	6.0	6.0	6.0
70°	6.0	6.0	5.4	6.0	6.0
72.5°	5.4	5.4	4.9	5.4	4.9
75°	4.3	4.3	4.3	4.3	4.3
77.5°	3.2	3.2	3.2	3.2	3.2
80°	2.7	2.7	2.7	2.7	2.7
82.5°	1.6	1.6	1.6	2.2	1.6
85°	1.1	1.1	1.1	1.1	1.1
87.5°	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	6.5	6.5	6.5	6.5	6.5
65°	6.0	6.5	6.0	6.5	6.0



(END OF REPORT)