

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: P283677

Luminaire Tested: **LDA2B159035D010 EU2B15FL409035 2LBAPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283677  
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 2LBAPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MB

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1026.9 lumens  
Efficiency: N/A  
Efficacy: 72.8 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

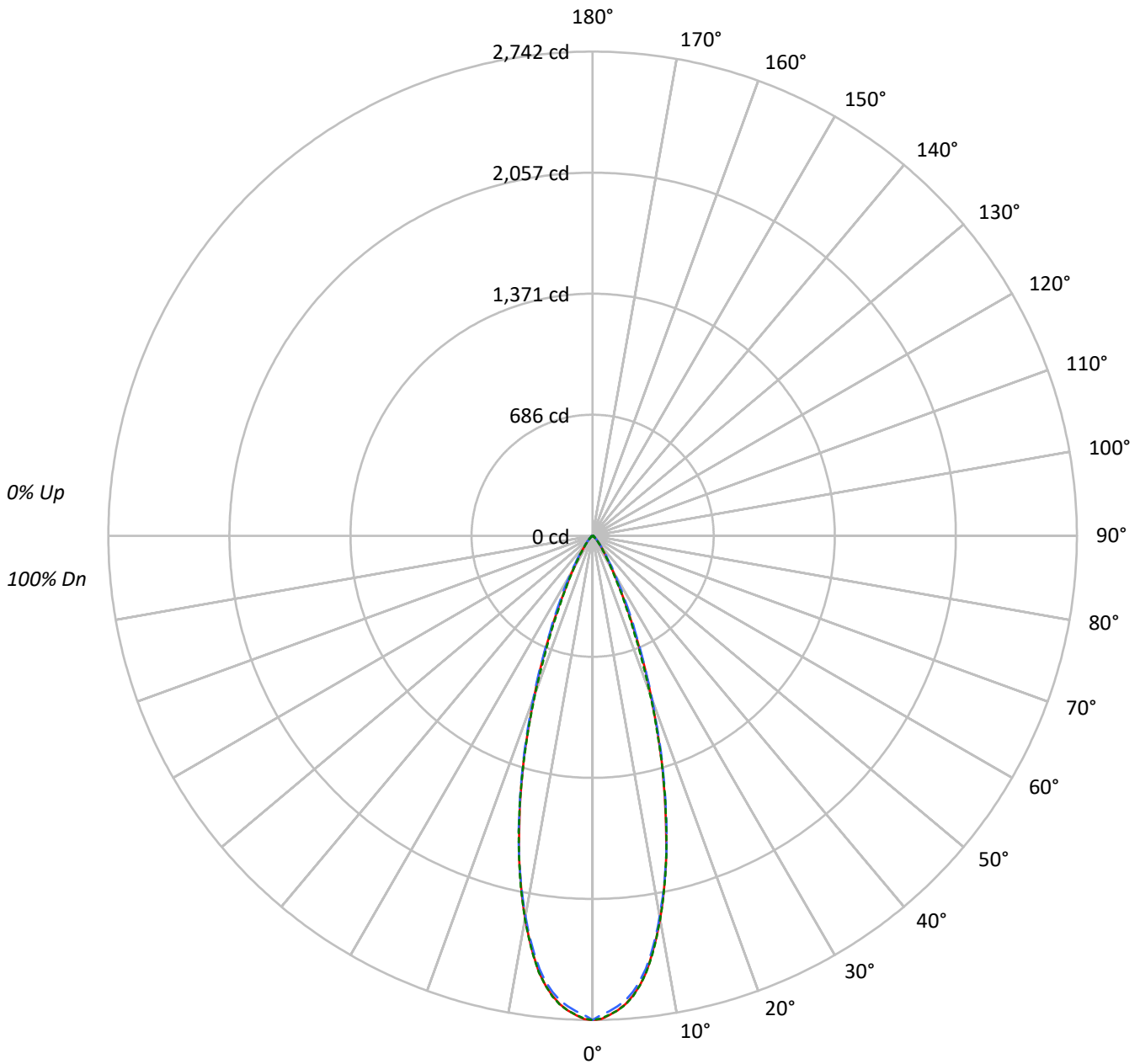
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1352995	1352995	1352995
5°	1294822	1285115	1296803
10°	1103142	1096228	1104294
15°	813088	818349	815744
20°	507594	516939	496358
25°	262220	281328	249047
30°	125730	144073	119805
35°	64866	71852	60710
40°	36388	38191	34520
45°	22118	22118	21280
50°	11513	14123	11513
55°	5935	9376	6451
60°	6808	6808	6808
65°	7355	7355	7355
70°	9088	8366	9088
75°	8769	8769	8769
80°	8239	8239	8239
85°	6793	6793	6793



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.9	23.0
10°-20°	433.3	42.2
20°-30°	234.9	22.9
30°-40°	75.4	7.3
40°-50°	25.7	2.5
50°-60°	9.0	0.9
60°-70°	6.5	0.6
70°-80°	4.8	0.5
80°-90°	1.4	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°	904.1	88.0
0°-40°	979.5	95.4
0°-60°	1014.2	98.8
0°-90°	1026.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1026.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2742	2742	2742	2742	2742	
5°	2614	2598	2595	2621	2618	236
15°	1592	1605	1602	1610	1597	432
25°	482	504	517	481	458	231
35°	108	112	119	108	101	73
45°	32	32	32	32	30	25
55°	7	9	11	9	8	8
65°	6	7	6	7	6	6
75°	5	5	5	5	5	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°	2742.4	2742.4	2742.4	2742.4	2742.4
1°	2737.8	2718.2	2715.3	2740.7	2734.9
2°	2715.9	2697.5	2694.6	2719.9	2714.8
3°	2691.7	2675.0	2669.2	2695.7	2692.3
4°	2659.4	2643.9	2638.7	2665.2	2662.3
5°	2614.5	2598.4	2594.9	2620.8	2618.5
6°	2559.2	2546.0	2539.6	2565.5	2560.9
7°	2490.1	2478.0	2471.1	2490.1	2492.4
8°	2400.2	2394.4	2386.4	2405.4	2405.4
9°	2304.5	2299.4	2290.7	2308.0	2308.0
10°	2202.0	2198.5	2188.2	2204.3	2204.3
11°	2089.7	2087.9	2080.4	2093.7	2093.7
12°	1971.5	1975.6	1968.7	1980.2	1976.2
13°	1853.4	1851.7	1852.3	1860.9	1854.6
14°	1719.8	1730.1	1731.9	1737.1	1727.3
15°	1591.9	1605.1	1602.2	1609.7	1597.1
16°	1461.1	1476.1	1475.5	1477.2	1465.1
17°	1338.9	1347.6	1348.2	1346.4	1331.5
18°	1208.7	1220.8	1220.8	1218.0	1200.1
19°	1081.4	1090.6	1097.0	1090.6	1069.9
20°	966.8	973.1	984.6	968.5	945.4
21°	856.7	862.5	872.3	853.3	827.9
22°	751.3	758.8	768.0	746.1	719.6
23°	652.8	670.0	673.5	643.5	621.1
24°	562.3	581.9	587.7	557.1	533.5
25°	481.7	503.5	516.8	481.1	457.5
26°	411.9	433.3	449.4	413.7	391.2
27°	350.9	373.3	390.0	356.6	335.3
28°	298.4	320.3	337.6	306.5	286.3
29°	259.3	271.9	289.2	263.3	244.9
30°	220.7	234.5	252.9	226.4	210.3
32.5°	151.5	159.0	173.4	157.3	144.6
35°	107.7	112.3	119.3	108.3	100.8
37.5°	76.6	78.9	83.0	76.6	72.6
40°	56.5	57.6	59.3	55.9	53.6
42.5°	42.1	42.6	42.6	41.5	40.3
45°	31.7	32.3	31.7	31.7	30.5
47.5°	23.0	24.8	24.2	24.2	22.5
50°	15.0	18.4	18.4	17.9	15.0
52.5°	9.2	12.7	14.4	12.7	9.8
55°	6.9	8.6	10.9	8.6	7.5
57.5°	6.9	6.9	8.1	6.9	6.9
60°	6.9	6.9	6.9	6.9	6.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	6.3	6.3	6.3	6.3	6.3
70°	6.3	6.3	5.8	6.3	6.3
72.5°	5.8	5.8	5.2	5.8	5.2
75°	4.6	4.6	4.6	4.6	4.6
77.5°	3.5	3.5	3.5	3.5	3.5
80°	2.9	2.9	2.9	2.9	2.9
82.5°	1.7	1.7	1.7	2.3	1.7
85°	1.2	1.2	1.2	1.2	1.2
87.5°	0.6	0.6	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	6.9	6.9	6.9	6.9	6.9
65°	6.3	6.9	6.3	6.9	6.3



(END OF REPORT)