

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: P282707

Luminaire Tested: **LDA2B158030D010 EU2B15NFL258030 2LBALPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282707  
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: LDA2B158030D010 EU2B15NFL258030 2LBALPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 1500 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: 1217.5 lumens  
Efficiency: N/A  
Efficacy: 86.3 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

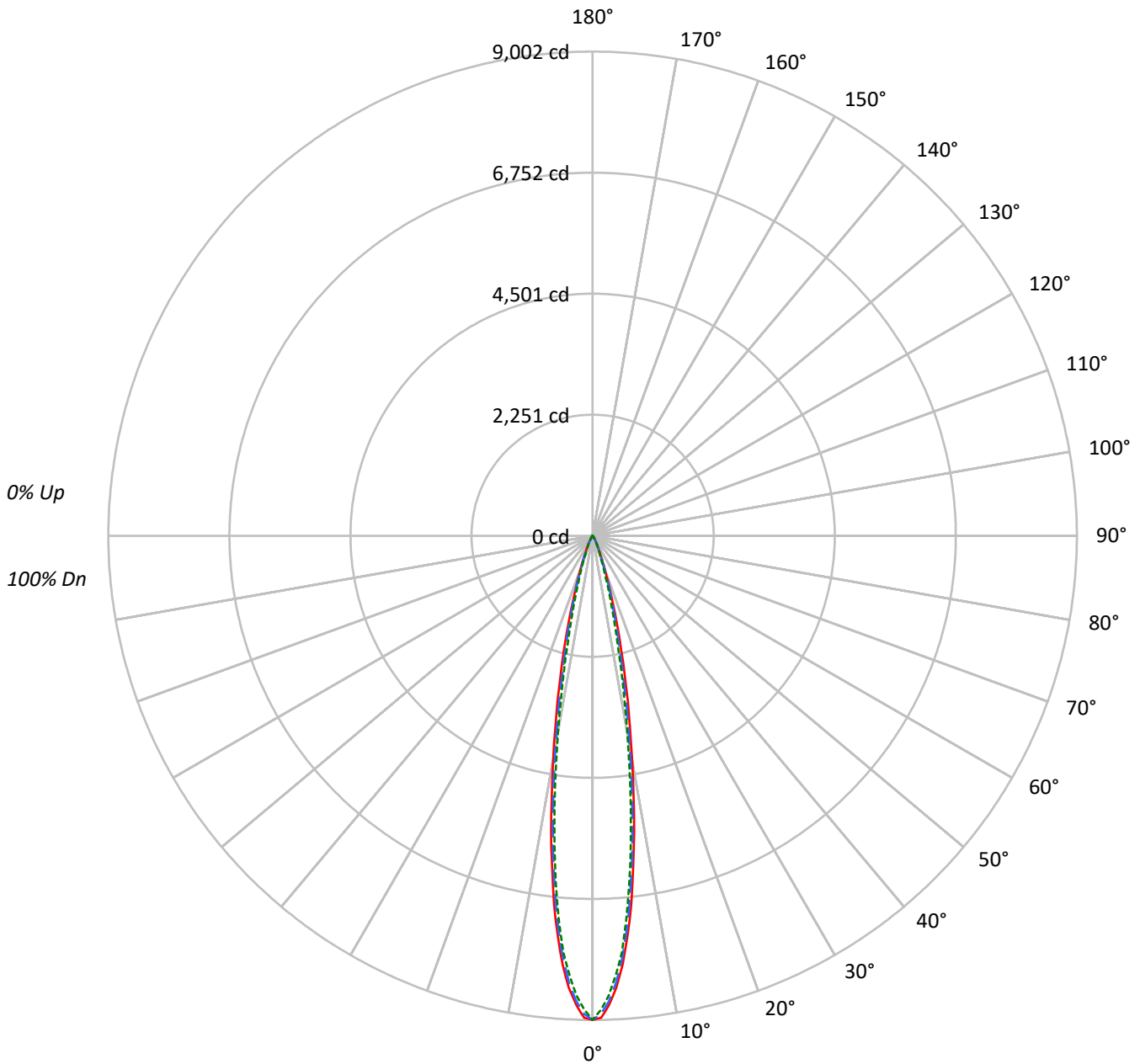
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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																			
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°	4441243	4441243	4441243
5°	3695578	3627828	3554581
10°	2116810	1986357	1853849
15°	941494	836175	700719
20°	341529	321158	254427
25°	131137	122428	105443
30°	56570	52582	46657
35°	26741	26741	22164
40°	13396	13847	11206
45°	7745	7256	6768
50°	5296	4759	4759
55°	4215	3011	3613
60°	3454	2072	2763
65°	2452	1634	2452
70°	2019	1010	2019
75°	1334	1334	1334
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	585.5	48.1
10°-20°	473.8	38.9
20°-30°	114.3	9.4
30°-40°	29.1	2.4
40°-50°	8.7	0.7
50°-60°	3.7	0.3
60°-70°	1.8	0.1
70°-80°	0.6	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°	1173.5	96.4
0°-40°	1202.7	98.8
0°-60°	1215.1	99.8
0°-90°	1217.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1217.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9002	9002	9002	9002	9002	
5°	7462	7393	7325	7261	7177	603
15°	1843	1800	1637	1475	1372	526
25°	241	242	225	204	194	124
35°	44	45	44	40	37	31
45°	11	11	10	10	10	9
55°	5	4	4	4	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°	9002.0	9002.0	9002.0	9002.0	9002.0
1°	8961.7	8899.2	8891.6	8930.5	8815.9
2°	8732.6	8688.2	8662.5	8685.4	8555.6
3°	8418.1	8375.0	8328.5	8329.2	8184.1
4°	7989.7	7955.7	7877.2	7853.6	7769.6
5°	7462.1	7393.3	7325.3	7261.4	7177.4
6°	6878.9	6790.0	6692.8	6597.7	6511.6
7°	6192.9	6133.9	6005.5	5875.7	5802.8
8°	5548.0	5452.8	5302.9	5140.4	5078.6
9°	4854.4	4786.3	4614.2	4425.3	4363.5
10°	4225.4	4154.5	3965.0	3754.6	3700.5
11°	3635.2	3568.6	3371.4	3150.6	3093.0
12°	3136.0	3041.6	2815.3	2623.7	2567.4
13°	2638.9	2574.4	2359.8	2170.3	2061.3
14°	2216.1	2162.7	1968.3	1801.6	1686.4
15°	1843.3	1799.6	1637.1	1474.6	1371.9
16°	1512.1	1485.1	1356.6	1199.7	1115.7
17°	1226.8	1201.8	1119.9	975.5	904.6
18°	990.7	987.3	919.2	794.3	731.1
19°	815.1	813.7	751.2	646.4	594.3
20°	650.5	659.6	611.7	520.0	484.6
21°	530.4	535.3	497.1	427.7	395.7
22°	431.8	435.3	410.3	353.4	336.0
23°	354.1	356.2	335.3	293.0	277.7
24°	291.6	293.0	274.2	244.4	231.2
25°	240.9	242.3	224.9	204.1	193.7
26°	200.0	201.3	186.1	171.5	161.1
27°	165.9	168.7	153.4	144.4	133.3
28°	141.6	142.3	128.4	122.9	112.5
29°	115.9	120.1	108.3	103.4	95.8
30°	99.3	101.4	92.3	88.9	81.9
32.5°	66.0	67.3	63.2	60.4	54.8
35°	44.4	45.1	44.4	40.3	36.8
37.5°	30.5	30.5	31.2	26.4	25.0
40°	20.8	20.8	21.5	18.1	17.4
42.5°	15.3	15.3	14.6	12.5	12.5
45°	11.1	11.1	10.4	9.7	9.7
47.5°	9.0	8.3	7.6	7.6	7.6
50°	6.9	6.9	6.2	5.6	6.2
52.5°	5.6	5.6	4.9	4.9	4.9
55°	4.9	4.2	3.5	3.5	4.2
57.5°	3.5	3.5	2.8	2.8	3.5
60°	3.5	2.8	2.1	2.8	2.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	2.1	1.4	1.4	1.4	1.4
70°	1.4	1.4	0.7	0.7	1.4
72.5°	0.7	0.7	0.7	0.7	0.7
75°	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.7	0.0	0.0	0.7
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°	2.8	2.1	2.1	2.1	2.1
65°	2.1	2.1	1.4	1.4	2.1



(END OF REPORT)