

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: P282290

Luminaire Tested: **LDA2B158030D010 EU2B15NFL258030 2LBAPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282290  
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 2LBAPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MW  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1320.2 lumens  
Efficiency: N/A  
Efficacy: 93.6 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

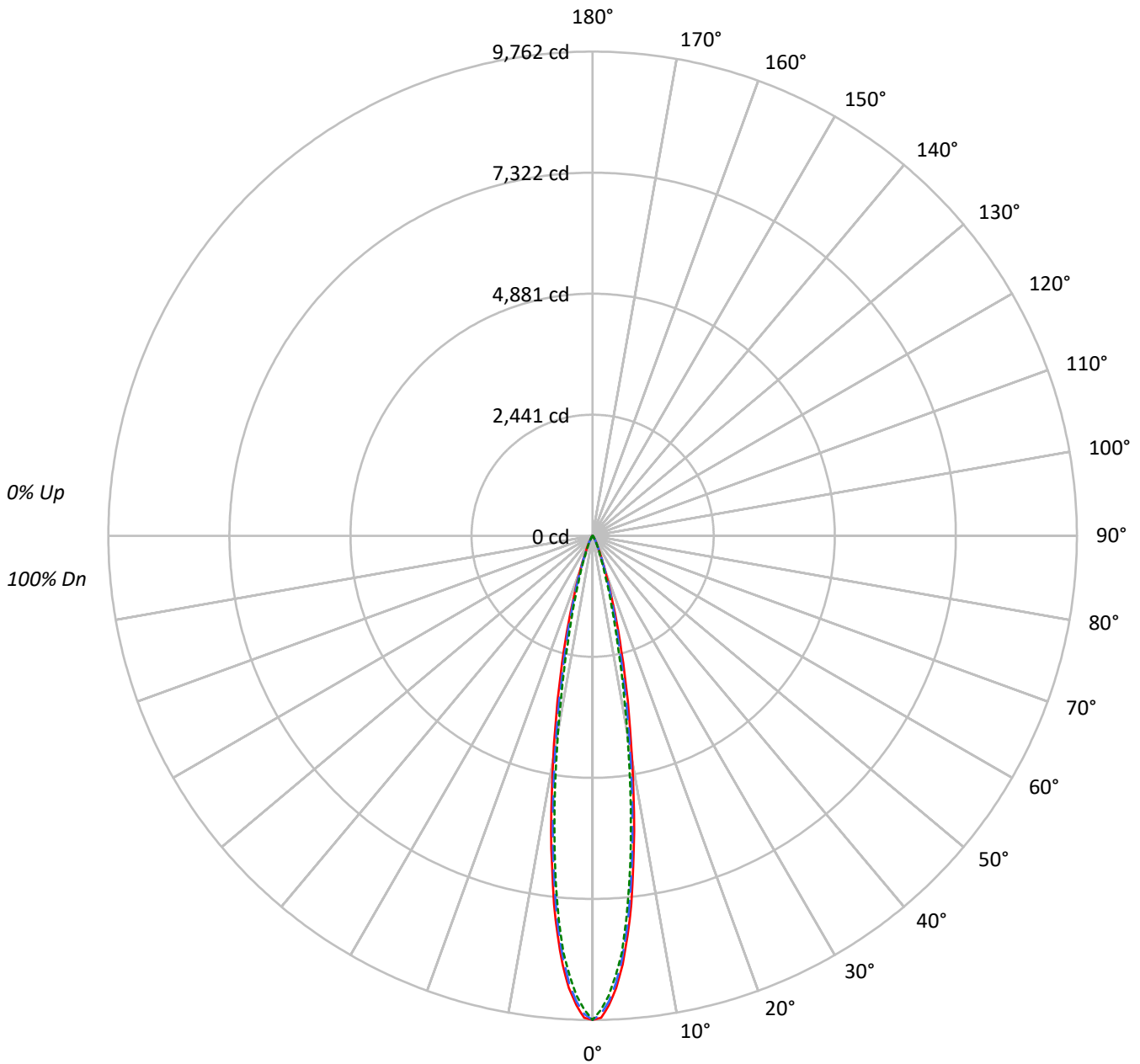
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	99	97	97	100													
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97	97	96	95	95	94	92													
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95	94	93	92	91	90	88													
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	93	92	91	90	89	88	86													
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90	89	88	87	86	85	84													
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88	87	86	85	84	83	81													
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86	85	84	83	82	81	79													
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84	83	82	81	80	79	78													
8	96	91	87	84	96	90	87	84	89	86	84	88	86	84	88	85	83	82	81	80	79	78	77	76													
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81	80	79	78	77	76	75													
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79	78	77	76	75	74	73													

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

	0°	45°	90°
0°	4816099	4816099	4816099
5°	4007484	3934039	3854601
10°	2295457	2154032	2010303
15°	1020970	906762	759866
20°	370352	348249	275900
25°	142188	132771	114371
30°	61355	57025	50588
35°	29030	29030	24031
40°	14555	15006	12108
45°	8373	7884	7326
50°	5757	5219	5219
55°	4559	3269	3871
60°	3750	2269	2960
65°	2685	1751	2685
70°	2164	1154	2164
75°	1525	1525	1525
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	634.9	48.1
10°-20°	513.8	38.9
20°-30°	123.9	9.4
30°-40°	31.6	2.4
40°-50°	9.4	0.7
50°-60°	4.0	0.3
60°-70°	2.0	0.1
70°-80°	0.7	0.1
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°	1272.6	96.4
0°-40°	1304.2	98.8
0°-60°	1317.6	99.8
0°-90°	1320.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1320.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9762	9762	9762	9762	9762	
5°	8092	8017	7944	7874	7783	654
15°	1999	1952	1775	1599	1488	570
25°	261	263	244	221	210	135
35°	48	49	48	44	40	33
45°	12	12	11	10	10	10
55°	5	4	4	4	4	5
65°	2	2	2	2	2	3
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°	9761.8	9761.8	9761.8	9761.8	9761.8
1°	9718.1	9650.3	9642.1	9684.2	9560.0
2°	9469.7	9421.5	9393.6	9418.5	9277.7
3°	9128.6	9081.9	9031.5	9032.2	8874.9
4°	8664.1	8627.2	8542.1	8516.5	8425.4
5°	8091.9	8017.4	7943.6	7874.3	7783.2
6°	7459.5	7363.1	7257.7	7154.6	7061.2
7°	6715.6	6651.6	6512.4	6371.6	6292.5
8°	6016.2	5913.1	5750.5	5574.3	5507.3
9°	5264.1	5190.3	5003.6	4798.8	4731.8
10°	4582.0	4505.2	4299.7	4071.5	4012.8
11°	3942.1	3869.8	3656.0	3416.5	3354.1
12°	3400.7	3298.3	3052.9	2845.1	2784.1
13°	2861.7	2791.7	2559.0	2353.5	2235.3
14°	2403.2	2345.2	2134.4	1953.7	1828.7
15°	1998.9	1951.5	1775.3	1599.1	1487.7
16°	1639.8	1610.4	1471.1	1301.0	1209.9
17°	1330.3	1303.2	1214.4	1057.8	981.0
18°	1074.4	1070.6	996.8	861.3	792.8
19°	883.9	882.4	814.6	700.9	644.5
20°	705.4	715.2	663.3	563.9	525.5
21°	575.2	580.5	539.1	463.8	429.1
22°	468.3	472.1	444.9	383.2	364.4
23°	384.0	386.2	363.6	317.7	301.1
24°	316.2	317.7	297.4	265.0	250.7
25°	261.2	262.8	243.9	221.3	210.1
26°	216.8	218.3	201.8	186.0	174.7
27°	179.9	182.9	166.4	156.6	144.6
28°	153.6	154.3	139.3	133.3	122.0
29°	125.7	130.2	117.4	112.2	103.9
30°	107.7	109.9	100.1	96.4	88.8
32.5°	71.5	73.0	68.5	65.5	59.5
35°	48.2	48.9	48.2	43.7	39.9
37.5°	33.1	33.1	33.9	28.6	27.1
40°	22.6	22.6	23.3	19.6	18.8
42.5°	16.6	16.6	15.8	13.6	13.6
45°	12.0	12.0	11.3	10.5	10.5
47.5°	9.8	9.0	8.3	8.3	8.3
50°	7.5	7.5	6.8	6.0	6.8
52.5°	6.0	6.0	5.3	5.3	5.3
55°	5.3	4.5	3.8	3.8	4.5
57.5°	3.8	3.8	3.0	3.0	3.8
60°	3.8	3.0	2.3	3.0	3.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	2.3	1.5	1.5	1.5	1.5
70°	1.5	1.5	0.8	0.8	1.5
72.5°	0.8	0.8	0.8	0.8	0.8
75°	0.8	0.8	0.8	0.8	0.8
77.5°	0.8	0.8	0.0	0.0	0.8
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°	3.0	2.3	2.3	2.3	2.3
65°	2.3	2.3	1.5	1.5	2.3



(END OF REPORT)