

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: P282200

Luminaire Tested: **LDA2B108027D010 EU2B10NFL258027 2LBAPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282200  
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: LDA2B108027D010 EU2B10NFL258027 2LBAPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 1000 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: 973.5 lumens  
Efficiency: N/A  
Efficacy: 97.3 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

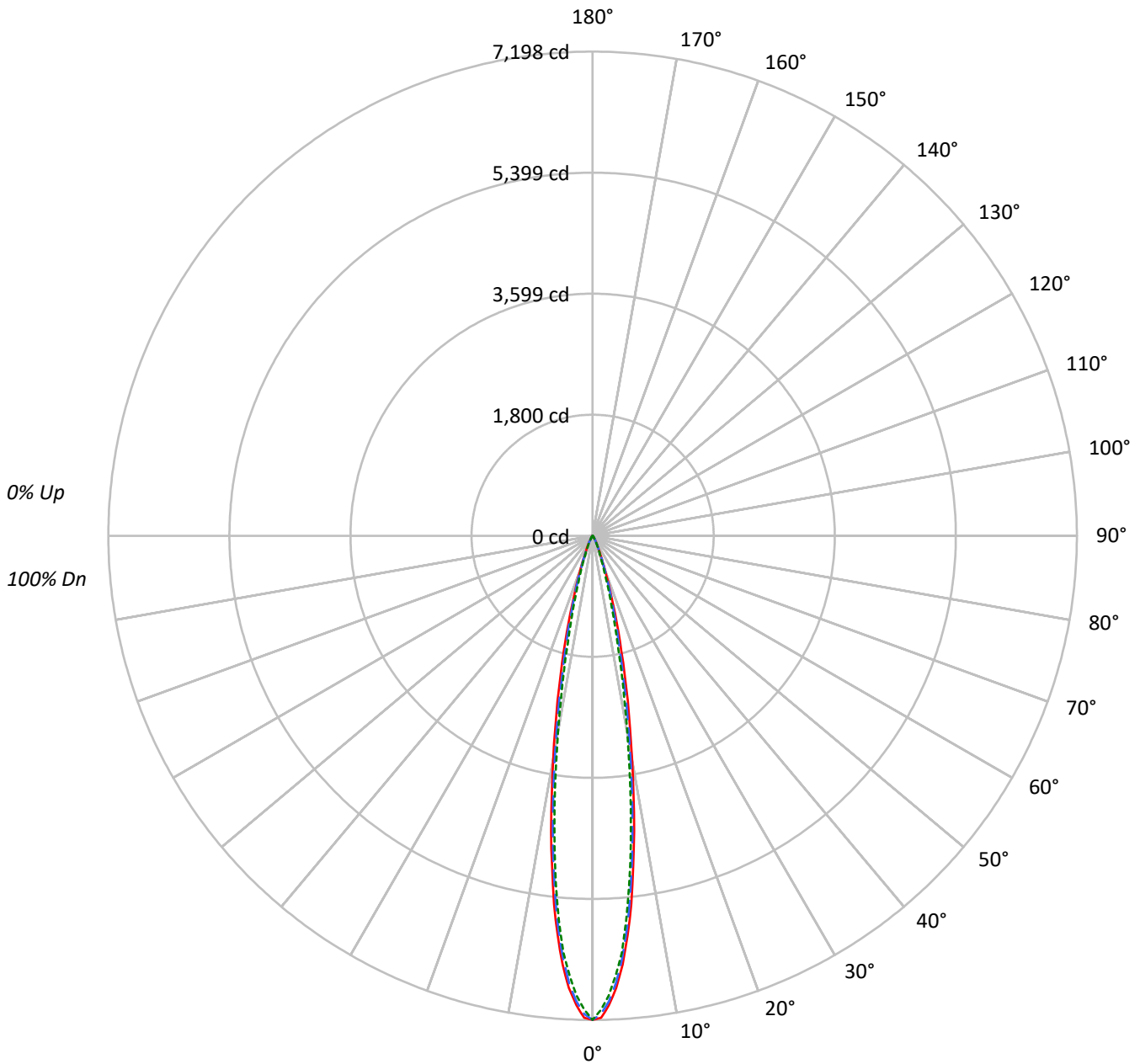
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P282200

CATALOG NUMBER: LDA2B108027D010 EU2B10NFL258027 2LBAPINSQ1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P282200

CATALOG NUMBER: LDA2B108027D010 EU2B10NFL258027 2LBAPINSQ1MW

**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				100															
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97				97															
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95				95															
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92				92															
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90				90															
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88				88															
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86				86															
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84				84															
8	96	91	87	84	96	90	87	84	89	86	84	88	86	84	88	85	83	83				83															
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81				81															
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79				79															

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

	0°	45°	90°
0°	3551021	3551021	3551021
5°	2954838	2900658	2842120
10°	1692486	1588234	1482278
15°	752766	668592	560259
20°	273065	256790	203447
25°	104845	97931	84322
30°	45233	42043	37314
35°	21381	21381	17707
40°	10755	11077	8952
45°	6210	5791	5442
50°	4298	3838	3838
55°	3355	2408	2838
60°	2763	1677	2171
65°	1985	1284	1985
70°	1587	865	1587
75°	1144	1144	1144
80°	0	0	0
85°	0	0	0



TEST NUMBER: P282200

CATALOG NUMBER: LDA2B108027D010 EU2B10NFL258027 2LBAPINSQ1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	468.1	48.1
10°-20°	378.8	38.9
20°-30°	91.4	9.4
30°-40°	23.3	2.4
40°-50°	6.9	0.7
50°-60°	3.0	0.3
60°-70°	1.4	0.1
70°-80°	0.5	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°	938.3	96.4
0°-40°	961.6	98.8
0°-60°	971.5	99.8
0°-90°	973.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	973.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7198	7198	7198	7198	7198	
5°	5966	5911	5857	5806	5739	482
15°	1474	1439	1309	1179	1097	420
25°	193	194	180	163	155	99
35°	36	36	36	32	29	24
45°	9	9	8	8	8	8
55°	4	3	3	3	3	3
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



TEST NUMBER: P282200

CATALOG NUMBER: LDA2B108027D010 EU2B10NFL258027 2LBAPINSQ1MW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7197.6	7197.6	7197.6	7197.6	7197.6
1°	7165.4	7115.5	7109.4	7140.5	7048.9
2°	6982.2	6946.7	6926.2	6944.5	6840.7
3°	6730.8	6696.4	6659.2	6659.7	6543.7
4°	6388.3	6361.1	6298.3	6279.5	6212.3
5°	5966.4	5911.4	5857.0	5806.0	5738.8
6°	5500.1	5429.0	5351.3	5275.3	5206.4
7°	4951.6	4904.4	4801.8	4697.9	4639.7
8°	4435.9	4359.9	4240.0	4110.1	4060.7
9°	3881.4	3827.0	3689.3	3538.3	3488.9
10°	3378.4	3321.8	3170.3	3002.1	2958.8
11°	2906.6	2853.3	2695.6	2519.1	2473.0
12°	2507.5	2432.0	2251.0	2097.8	2052.8
13°	2110.0	2058.4	1886.8	1735.3	1648.1
14°	1771.9	1729.2	1573.8	1440.5	1348.4
15°	1473.8	1438.9	1309.0	1179.1	1096.9
16°	1209.0	1187.4	1084.7	959.2	892.1
17°	980.9	960.9	895.4	779.9	723.3
18°	792.2	789.4	735.0	635.1	584.5
19°	651.7	650.6	600.6	516.8	475.2
20°	520.1	527.4	489.1	415.8	387.5
21°	424.1	428.0	397.5	342.0	316.4
22°	345.3	348.1	328.1	282.6	268.7
23°	283.1	284.8	268.1	234.3	222.0
24°	233.1	234.3	219.3	195.4	184.9
25°	192.6	193.7	179.9	163.2	154.9
26°	159.9	161.0	148.8	137.1	128.8
27°	132.7	134.9	122.7	115.5	106.6
28°	113.2	113.8	102.7	98.3	89.9
29°	92.7	96.0	86.6	82.7	76.6
30°	79.4	81.0	73.8	71.1	65.5
32.5°	52.7	53.8	50.5	48.3	43.9
35°	35.5	36.1	35.5	32.2	29.4
37.5°	24.4	24.4	25.0	21.1	20.0
40°	16.7	16.7	17.2	14.4	13.9
42.5°	12.2	12.2	11.7	10.0	10.0
45°	8.9	8.9	8.3	7.8	7.8
47.5°	7.2	6.7	6.1	6.1	6.1
50°	5.6	5.6	5.0	4.4	5.0
52.5°	4.4	4.4	3.9	3.9	3.9
55°	3.9	3.3	2.8	2.8	3.3
57.5°	2.8	2.8	2.2	2.2	2.8
60°	2.8	2.2	1.7	2.2	2.2



TEST NUMBER: P282200

CATALOG NUMBER: LDA2B108027D010 EU2B10NFL258027 2LBAPINSQ1MW

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1.7	1.1	1.1	1.1	1.1
70°	1.1	1.1	0.6	0.6	1.1
72.5°	0.6	0.6	0.6	0.6	0.6
75°	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.0	0.0	0.6
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



Report Generated By E9808895 / USPTCWHP6082093







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







62.5°	2.2	1.7	1.7	1.7	1.7
65°	1.7	1.7	1.1	1.1	1.7



(END OF REPORT)