

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: P282207

Luminaire Tested: **LDA2B108030D010 EU2B10NFL258030 2LBAPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282207  
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: LDA2B108030D010 EU2B10NFL258030 2LBAPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MB  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 981.6 lumens  
Efficiency: N/A  
Efficacy: 98.2 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

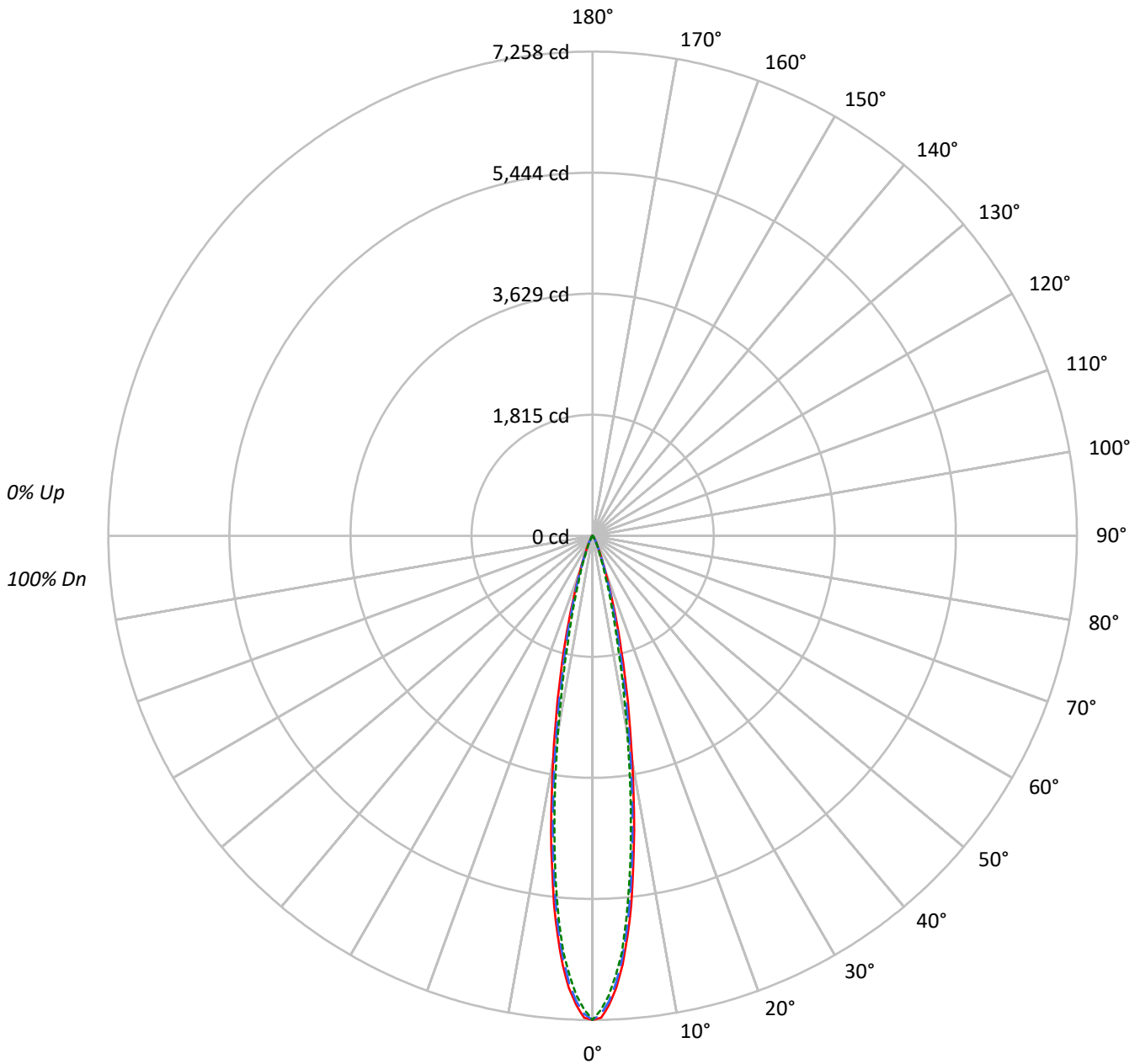
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P282207

CATALOG NUMBER: LDA2B108030D010 EU2B10NFL258030 2LBAPINSQ1MB

### Luminous Intensity Polar Plot





TEST NUMBER: P282207

CATALOG NUMBER: LDA2B108030D010 EU2B10NFL258030 2LBAPINSQ1MB

**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°	3580721	3580721	3580721
5°	2979501	2924925	2865842
10°	1706664	1601509	1494652
15°	759100	674160	564958
20°	275375	258890	205127
25°	105716	98748	85030
30°	45575	42385	37656
35°	21562	21562	17888
40°	10820	11206	9017
45°	6279	5861	5442
50°	4298	3838	3838
55°	3355	2408	2925
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: P282207

CATALOG NUMBER: LDA2B108030D010 EU2B10NFL258030 2LBAPINSQ1MB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	472.0	48.1
10°-20°	382.0	38.9
20°-30°	92.1	9.4
30°-40°	23.5	2.4
40°-50°	7.0	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°	946.2	96.4
0°-40°	969.6	98.8
0°-60°	979.6	99.8
0°-90°	981.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	981.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7258	7258	7258	7258	7258	
5°	6016	5961	5906	5854	5787	486
15°	1486	1451	1320	1189	1106	424
25°	194	195	181	165	156	100
35°	36	36	36	32	30	25
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: P282207

CATALOG NUMBER: LDA2B108030D010 EU2B10NFL258030 2LBAPINSQ1MB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7257.8	7257.8	7257.8	7257.8	7257.8
1°	7225.3	7174.9	7168.8	7200.1	7107.8
2°	7040.6	7004.8	6984.1	7002.5	6897.9
3°	6787.0	6752.3	6714.8	6715.4	6598.4
4°	6441.7	6414.2	6351.0	6332.0	6264.2
5°	6016.2	5960.8	5906.0	5854.5	5786.7
6°	5546.1	5474.4	5396.0	5319.4	5249.9
7°	4993.0	4945.4	4841.9	4737.2	4678.4
8°	4473.0	4396.3	4275.4	4144.4	4094.6
9°	3913.8	3859.0	3720.1	3567.9	3518.1
10°	3406.7	3349.6	3196.8	3027.2	2983.5
11°	2930.9	2877.1	2718.2	2540.2	2493.7
12°	2528.4	2452.3	2269.8	2115.3	2070.0
13°	2127.6	2075.6	1902.6	1749.8	1661.9
14°	1786.7	1743.6	1586.9	1452.6	1359.6
15°	1486.2	1450.9	1319.9	1188.9	1106.1
16°	1219.1	1197.3	1093.8	967.3	899.5
17°	989.1	968.9	902.9	786.5	729.4
18°	798.8	796.0	741.1	640.4	589.4
19°	657.2	656.0	605.7	521.1	479.2
20°	524.5	531.8	493.1	419.3	390.7
21°	427.7	431.6	400.8	344.8	319.1
22°	348.2	351.0	330.8	284.9	270.9
23°	285.5	287.2	270.4	236.2	223.9
24°	235.1	236.2	221.1	197.0	186.4
25°	194.2	195.4	181.4	164.6	156.2
26°	161.2	162.3	150.0	138.3	129.9
27°	133.8	136.0	123.7	116.4	107.5
28°	114.2	114.7	103.6	99.1	90.7
29°	93.5	96.8	87.3	83.4	77.2
30°	80.0	81.7	74.4	71.6	66.1
32.5°	53.2	54.3	50.9	48.7	44.2
35°	35.8	36.4	35.8	32.5	29.7
37.5°	24.6	24.6	25.2	21.3	20.2
40°	16.8	16.8	17.4	14.6	14.0
42.5°	12.3	12.3	11.8	10.1	10.1
45°	9.0	9.0	8.4	7.8	7.8
47.5°	7.3	6.7	6.2	6.2	6.2
50°	5.6	5.6	5.0	4.5	5.0
52.5°	4.5	4.5	3.9	3.9	3.9
55°	3.9	3.4	2.8	2.8	3.4
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: P282207

CATALOG NUMBER: LDA2B108030D010 EU2B10NFL258030 2LBAPINSQ1MB

**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)