

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: P282218

Luminaire Tested: **LDA2B108040D010 EU2B10NFL258040 2LBAPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282218  
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: LDA2B108040D010 EU2B10NFL258040 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: 1044.3 lumens  
Efficiency: N/A  
Efficacy: 104.4 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

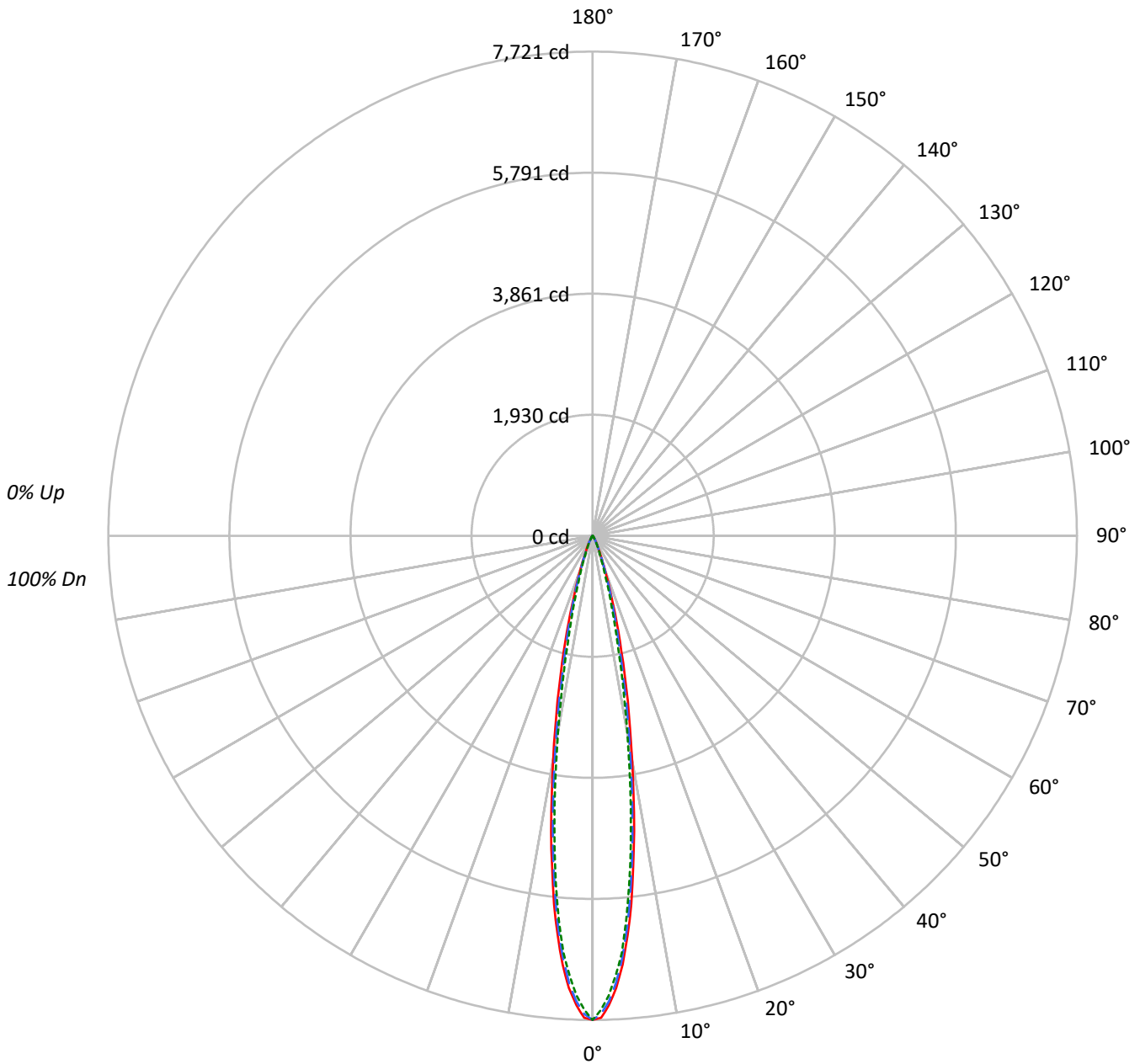
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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													
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	85	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°	3809345	3809345	3809345
5°	3169775	3111682	3048836
10°	1815625	1703758	1590087
15°	807521	717217	601018
20°	292964	275428	218253
25°	112466	105008	90419
30°	48537	45119	40049
35°	22947	22947	19032
40°	11528	11915	9596
45°	6628	6210	5791
50°	4605	4145	4145
55°	3613	2580	3097
60°	2960	1776	2368
65°	2101	1401	2101
70°	1731	865	1731
75°	1144	1144	1144
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	502.2	48.1
10°-20°	406.4	38.9
20°-30°	98.0	9.4
30°-40°	25.0	2.4
40°-50°	7.4	0.7
50°-60°	3.2	0.3
60°-70°	1.5	0.1
70°-80°	0.5	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°	1006.6	96.4
0°-40°	1031.6	98.8
0°-60°	1042.2	99.8
0°-90°	1044.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1044.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7721	7721	7721	7721	7721	
5°	6400	6341	6283	6228	6156	518
15°	1581	1544	1404	1265	1177	451
25°	207	208	193	175	166	107
35°	38	39	38	34	32	26
45°	10	10	9	8	8	8
55°	4	4	3	3	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°	7721.2	7721.2	7721.2	7721.2	7721.2
1°	7686.7	7633.1	7626.5	7659.9	7561.6
2°	7490.2	7452.0	7430.0	7449.7	7338.3
3°	7220.4	7183.5	7143.6	7144.2	7019.7
4°	6853.0	6823.8	6756.5	6736.3	6664.2
5°	6400.4	6341.4	6283.1	6228.3	6156.2
6°	5900.2	5824.0	5740.6	5659.0	5585.2
7°	5311.8	5261.2	5151.0	5039.7	4977.2
8°	4758.6	4677.0	4548.4	4409.1	4356.1
9°	4163.7	4105.4	3957.7	3795.7	3742.7
10°	3624.2	3563.5	3400.9	3220.4	3174.0
11°	3118.0	3060.9	2891.7	2702.4	2652.9
12°	2689.9	2608.9	2414.7	2250.4	2202.1
13°	2263.5	2208.1	2024.1	1861.5	1768.0
14°	1900.8	1855.0	1688.2	1545.3	1446.5
15°	1581.0	1543.5	1404.2	1264.8	1176.7
16°	1297.0	1273.8	1163.6	1029.0	957.0
17°	1052.2	1030.8	960.5	836.7	775.9
18°	849.8	846.8	788.4	681.2	627.1
19°	699.1	697.9	644.3	554.4	509.7
20°	558.0	565.7	524.6	446.0	415.7
21°	455.0	459.1	426.4	366.8	339.4
22°	370.4	373.4	351.9	303.1	288.2
23°	303.7	305.5	287.6	251.3	238.2
24°	250.1	251.3	235.2	209.6	198.3
25°	206.6	207.8	192.9	175.1	166.1
26°	171.5	172.7	159.6	147.1	138.2
27°	142.3	144.7	131.6	123.9	114.3
28°	121.5	122.1	110.2	105.4	96.5
29°	99.4	103.0	92.9	88.7	82.2
30°	85.2	86.9	79.2	76.2	70.3
32.5°	56.6	57.8	54.2	51.8	47.0
35°	38.1	38.7	38.1	34.5	31.6
37.5°	26.2	26.2	26.8	22.6	21.4
40°	17.9	17.9	18.5	15.5	14.9
42.5°	13.1	13.1	12.5	10.7	10.7
45°	9.5	9.5	8.9	8.3	8.3
47.5°	7.7	7.1	6.6	6.6	6.6
50°	6.0	6.0	5.4	4.8	5.4
52.5°	4.8	4.8	4.2	4.2	4.2
55°	4.2	3.6	3.0	3.0	3.6
57.5°	3.0	3.0	2.4	2.4	3.0
60°	3.0	2.4	1.8	2.4	2.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1.8	1.2	1.2	1.2	1.2
70°	1.2	1.2	0.6	0.6	1.2
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



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







62.5°	2.4	1.8	1.8	1.8	1.8
65°	1.8	1.8	1.2	1.2	1.8



(END OF REPORT)