

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: P282230

Luminaire Tested: **LDA2B109024D010 EU2B10NFL259024 2LBAPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282230  
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: LDA2B109024D010 EU2B10NFL259024 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: 711.9 lumens  
Efficiency: N/A  
Efficacy: 71.2 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

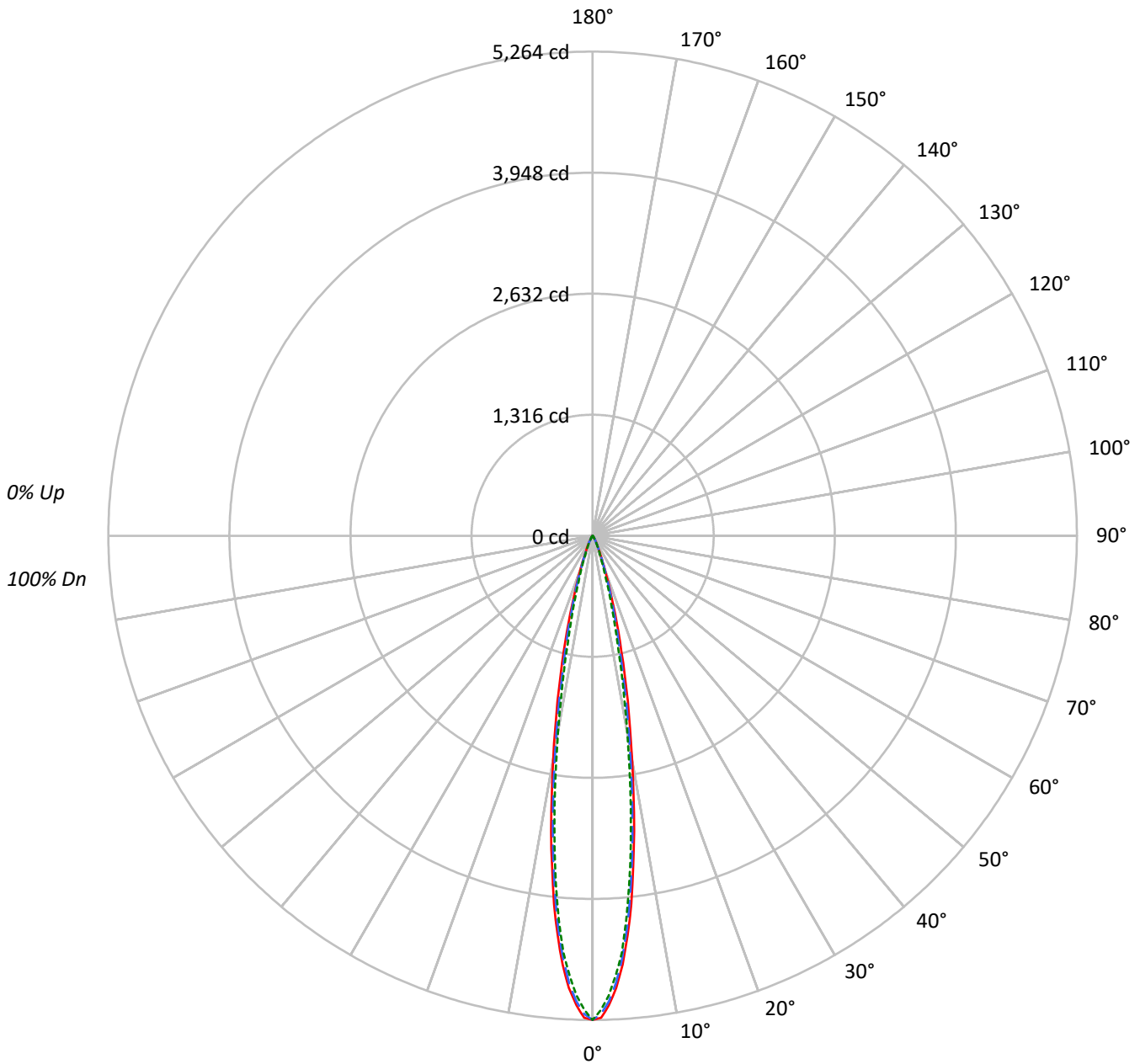
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				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°	2597106	2597106	2597106
5°	2161057	2121437	2078648
10°	1237853	1161555	1084055
15°	550554	488956	409736
20°	199719	187801	148792
25°	76701	71584	61676
30°	33099	30763	27288
35°	15659	15659	12949
40°	7857	8115	6505
45°	4535	4256	3977
50°	3147	2840	2840
55°	2408	1720	2064
60°	1973	1184	1579
65°	1401	934	1401
70°	1154	577	1154
75°	762	762	762
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	342.4	48.1
10°-20°	277.1	38.9
20°-30°	66.8	9.4
30°-40°	17.0	2.4
40°-50°	5.1	0.7
50°-60°	2.1	0.3
60°-70°	1.0	0.1
70°-80°	0.3	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°	686.3	96.4
0°-40°	703.3	98.8
0°-60°	710.5	99.8
0°-90°	711.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	711.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5264	5264	5264	5264	5264	
5°	4364	4323	4284	4246	4197	353
15°	1078	1052	957	862	802	307
25°	141	142	132	119	113	73
35°	26	26	26	24	22	18
45°	6	6	6	6	6	6
55°	3	2	2	2	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
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°	5264.1	5264.1	5264.1	5264.1	5264.1
1°	5240.6	5204.0	5199.5	5222.3	5155.3
2°	5106.6	5080.6	5065.6	5079.0	5003.0
3°	4922.7	4897.5	4870.3	4870.7	4785.8
4°	4672.2	4652.3	4606.4	4592.6	4543.5
5°	4363.6	4323.4	4283.6	4246.3	4197.2
6°	4022.6	3970.6	3913.8	3858.1	3807.8
7°	3621.5	3586.9	3511.8	3435.9	3393.3
8°	3244.3	3188.7	3101.0	3006.0	2969.8
9°	2838.7	2798.9	2698.2	2587.8	2551.7
10°	2470.9	2429.5	2318.6	2195.6	2163.9
11°	2125.8	2086.8	1971.5	1842.4	1808.7
12°	1833.9	1778.7	1646.3	1534.2	1501.4
13°	1543.2	1505.4	1380.0	1269.1	1205.4
14°	1295.9	1264.7	1151.0	1053.6	986.2
15°	1077.9	1052.3	957.3	862.3	802.2
16°	884.3	868.4	793.3	701.6	652.4
17°	717.4	702.8	654.9	570.4	529.0
18°	579.4	577.3	537.5	464.5	427.5
19°	476.6	475.8	439.3	378.0	347.5
20°	380.4	385.7	357.7	304.1	283.4
21°	310.2	313.0	290.7	250.1	231.4
22°	252.5	254.6	239.9	206.7	196.5
23°	207.1	208.3	196.1	171.3	162.4
24°	170.5	171.3	160.4	142.9	135.2
25°	140.9	141.7	131.5	119.4	113.3
26°	116.9	117.7	108.8	100.3	94.2
27°	97.0	98.7	89.7	84.4	78.0
28°	82.8	83.2	75.1	71.9	65.8
29°	67.8	70.2	63.3	60.5	56.0
30°	58.1	59.3	54.0	52.0	47.9
32.5°	38.6	39.4	36.9	35.3	32.1
35°	26.0	26.4	26.0	23.5	21.5
37.5°	17.9	17.9	18.3	15.4	14.6
40°	12.2	12.2	12.6	10.6	10.1
42.5°	8.9	8.9	8.5	7.3	7.3
45°	6.5	6.5	6.1	5.7	5.7
47.5°	5.3	4.9	4.5	4.5	4.5
50°	4.1	4.1	3.7	3.2	3.7
52.5°	3.2	3.2	2.8	2.8	2.8
55°	2.8	2.4	2.0	2.0	2.4
57.5°	2.0	2.0	1.6	1.6	2.0
60°	2.0	1.6	1.2	1.6	1.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1.2	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.4	0.4	0.8
72.5°	0.4	0.4	0.4	0.4	0.4
75°	0.4	0.4	0.4	0.4	0.4
77.5°	0.4	0.4	0.0	0.0	0.4
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°	1.6	1.2	1.2	1.2	1.2
65°	1.2	1.2	0.8	0.8	1.2



(END OF REPORT)