

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: P282692

Luminaire Tested: **LDA2B109050D010 EU2B10NFL259050 2LBALPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282692  
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: LDA2B109050D010 EU2B10NFL259050 2LBALPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 803.9 lumens  
Efficiency: N/A  
Efficacy: 80.4 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

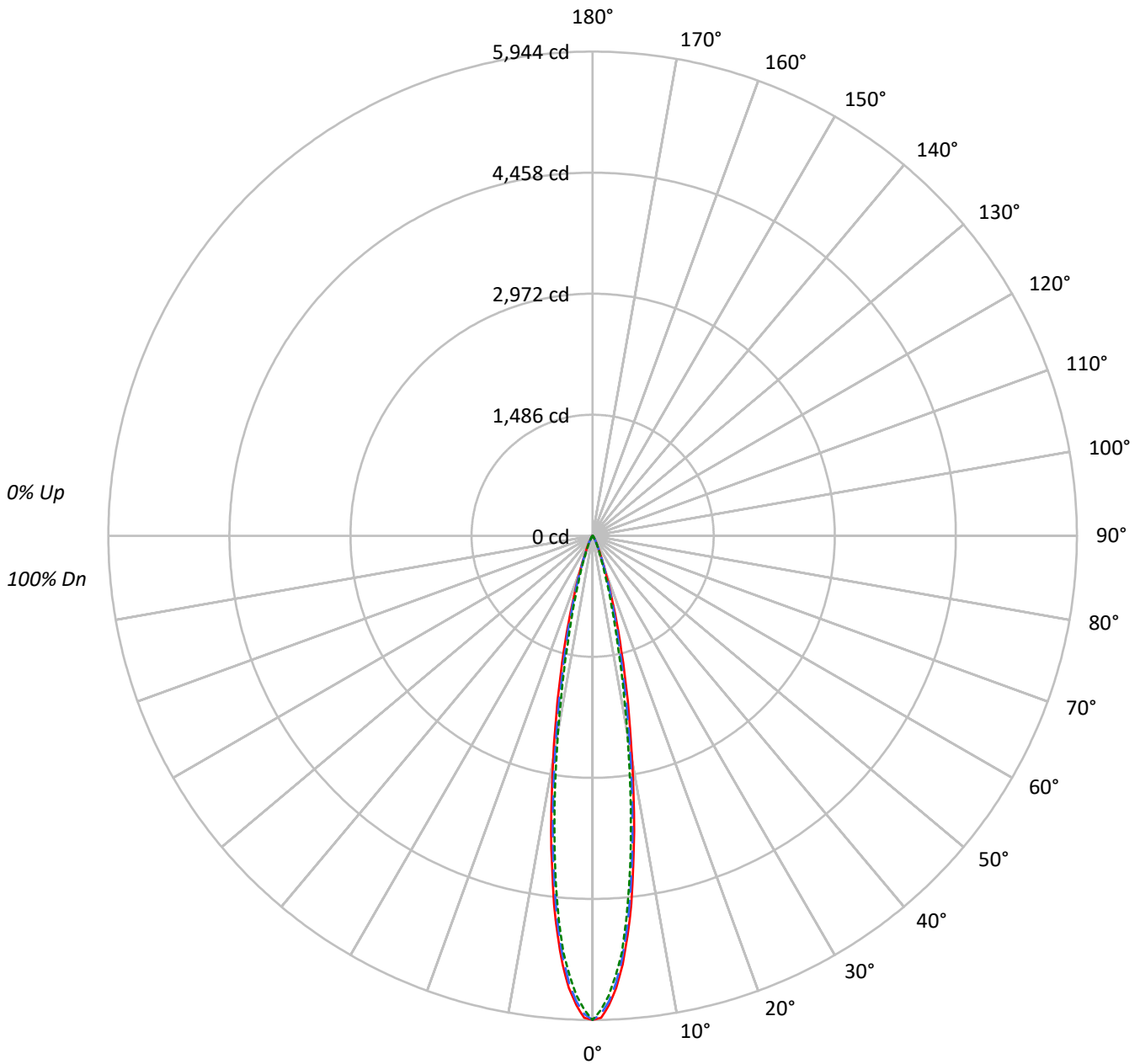
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2932542	2932542	2932542
5°	2440178	2395457	2347121
10°	1397714	1311597	1224077
15°	621653	552138	462703
20°	225498	212057	168008
25°	86608	80838	69624
30°	37371	34751	30820
35°	17647	17647	14635
40°	8888	9145	7406
45°	5093	4814	4465
50°	3531	3147	3147
55°	2752	1978	2408
60°	2269	1381	1776
65°	1634	1051	1634
70°	1298	721	1298
75°	953	953	953
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	386.6	48.1
10°-20°	312.9	38.9
20°-30°	75.4	9.4
30°-40°	19.2	2.4
40°-50°	5.7	0.7
50°-60°	2.4	0.3
60°-70°	1.2	0.1
70°-80°	0.4	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°	774.9	96.4
0°-40°	794.1	98.8
0°-60°	802.3	99.8
0°-90°	803.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	803.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5944	5944	5944	5944	5944	
5°	4927	4882	4837	4795	4739	398
15°	1217	1188	1081	974	906	347
25°	159	160	148	135	128	82
35°	29	30	29	27	24	20
45°	7	7	7	6	6	6
55°	3	3	2	2	3	3
65°	1	1	1	1	1	2
75°	0	0	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5944.0	5944.0	5944.0	5944.0	5944.0
1°	5917.4	5876.2	5871.1	5896.8	5821.2
2°	5766.1	5736.8	5719.8	5735.0	5649.2
3°	5558.5	5530.1	5499.3	5499.8	5404.0
4°	5275.6	5253.2	5201.4	5185.8	5130.3
5°	4927.2	4881.8	4836.9	4794.7	4739.3
6°	4542.1	4483.5	4419.3	4356.5	4299.6
7°	4089.2	4050.2	3965.4	3879.7	3831.6
8°	3663.3	3600.5	3501.5	3394.2	3353.4
9°	3205.4	3160.4	3046.7	2922.0	2881.2
10°	2790.0	2743.3	2618.1	2479.2	2443.4
11°	2400.3	2356.3	2226.1	2080.4	2042.3
12°	2070.7	2008.4	1858.9	1732.4	1695.3
13°	1742.5	1699.9	1558.2	1433.1	1361.1
14°	1463.3	1428.0	1299.7	1189.6	1113.5
15°	1217.1	1188.3	1081.0	973.7	905.9
16°	998.5	980.6	895.8	792.2	736.7
17°	810.0	793.5	739.4	644.1	597.3
18°	654.2	651.9	607.0	524.4	482.7
19°	538.2	537.3	496.0	426.8	392.4
20°	429.5	435.5	403.9	343.4	320.0
21°	350.2	353.5	328.2	282.4	261.3
22°	285.1	287.4	270.9	233.3	221.9
23°	233.8	235.2	221.4	193.5	183.4
24°	192.5	193.5	181.1	161.4	152.7
25°	159.1	160.0	148.5	134.8	127.9
26°	132.0	132.9	122.9	113.2	106.4
27°	109.6	111.4	101.3	95.4	88.0
28°	93.5	94.0	84.8	81.1	74.3
29°	76.6	79.3	71.5	68.3	63.3
30°	65.6	66.9	61.0	58.7	54.1
32.5°	43.6	44.5	41.7	39.9	36.2
35°	29.3	29.8	29.3	26.6	24.3
37.5°	20.2	20.2	20.6	17.4	16.5
40°	13.8	13.8	14.2	11.9	11.5
42.5°	10.1	10.1	9.6	8.3	8.3
45°	7.3	7.3	6.9	6.4	6.4
47.5°	6.0	5.5	5.0	5.0	5.0
50°	4.6	4.6	4.1	3.7	4.1
52.5°	3.7	3.7	3.2	3.2	3.2
55°	3.2	2.8	2.3	2.3	2.8
57.5°	2.3	2.3	1.8	1.8	2.3
60°	2.3	1.8	1.4	1.8	1.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1.4	0.9	0.9	0.9	0.9
70°	0.9	0.9	0.5	0.5	0.9
72.5°	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.0	0.0	0.5
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°	1.8	1.4	1.4	1.4	1.4
65°	1.4	1.4	0.9	0.9	1.4



(END OF REPORT)