

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: P282243

Luminaire Tested: **LDA2B109030D010 EU2B10NFL259030 2LBAPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282243  
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: LDA2B109030D010 EU2B10NFL259030 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: 791.8 lumens  
Efficiency: N/A  
Efficacy: 79.2 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

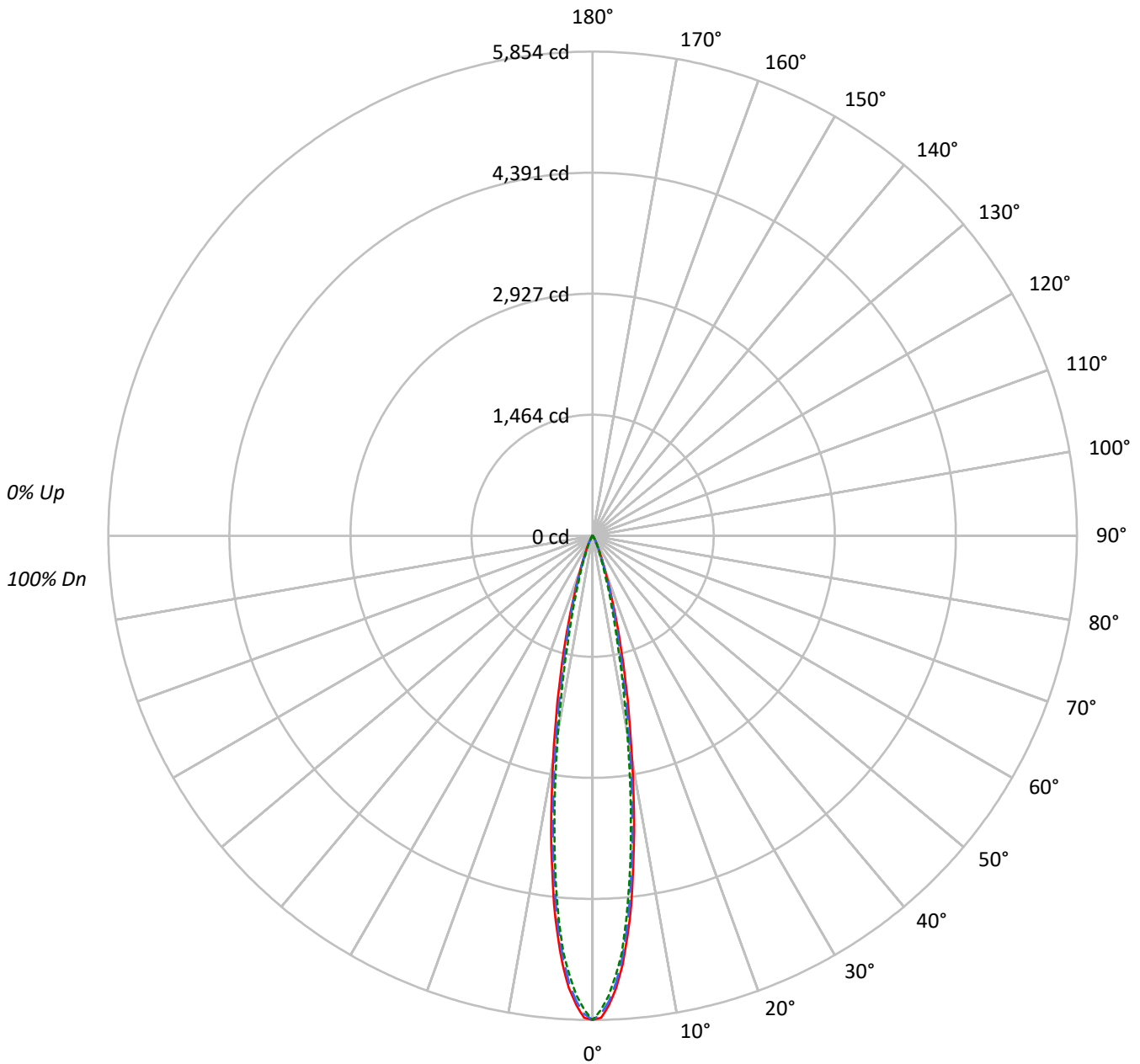
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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																			
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	84	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°	2888239	2888239	2888239
5°	2403331	2359255	2311612
10°	1376573	1291758	1205591
15°	612255	543761	455705
20°	222138	208855	165435
25°	85302	79641	68590
30°	36802	34181	30364
35°	17406	17406	14395
40°	8695	9017	7278
45°	5024	4744	4396
50°	3454	3147	3147
55°	2752	1978	2322
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°	380.8	48.1
10°-20°	308.1	38.9
20°-30°	74.3	9.4
30°-40°	18.9	2.4
40°-50°	5.6	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°	763.2	96.4
0°-40°	782.1	98.8
0°-60°	790.2	99.8
0°-90°	791.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	791.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5854	5854	5854	5854	5854	
5°	4853	4808	4764	4722	4668	392
15°	1199	1170	1065	959	892	342
25°	157	158	146	133	126	81
35°	29	29	29	26	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°	5854.2	5854.2	5854.2	5854.2	5854.2
1°	5828.0	5787.4	5782.4	5807.7	5733.2
2°	5679.0	5650.1	5633.4	5648.3	5563.9
3°	5474.5	5446.5	5416.2	5416.7	5322.3
4°	5195.9	5173.8	5122.8	5107.4	5052.8
5°	4852.8	4808.1	4763.8	4722.3	4667.6
6°	4473.5	4415.7	4352.5	4290.6	4234.6
7°	4027.4	3989.0	3905.5	3821.1	3773.7
8°	3608.0	3546.1	3448.6	3342.9	3302.7
9°	3156.9	3112.7	3000.7	2877.9	2837.7
10°	2747.8	2701.8	2578.5	2441.7	2406.5
11°	2364.1	2320.7	2192.5	2048.9	2011.4
12°	2039.4	1978.0	1830.8	1706.2	1669.7
13°	1716.2	1674.2	1534.7	1411.4	1340.5
14°	1441.2	1406.4	1280.0	1171.7	1096.7
15°	1198.7	1170.3	1064.6	959.0	892.2
16°	983.4	965.8	882.2	780.2	725.6
17°	797.8	781.6	728.3	634.4	588.3
18°	644.3	642.0	597.8	516.5	475.4
19°	530.1	529.2	488.5	420.3	386.5
20°	423.1	428.9	397.8	338.2	315.1
21°	344.9	348.1	323.3	278.1	257.4
22°	280.8	283.1	266.8	229.8	218.5
23°	230.3	231.6	218.1	190.5	180.6
24°	189.6	190.5	178.3	158.9	150.4
25°	156.7	157.6	146.3	132.7	126.0
26°	130.0	130.9	121.0	111.5	104.7
27°	107.9	109.7	99.8	93.9	86.7
28°	92.1	92.6	83.5	79.9	73.1
29°	75.4	78.1	70.4	67.3	62.3
30°	64.6	65.9	60.0	57.8	53.3
32.5°	42.9	43.8	41.1	39.3	35.7
35°	28.9	29.3	28.9	26.2	23.9
37.5°	19.9	19.9	20.3	17.2	16.3
40°	13.5	13.5	14.0	11.7	11.3
42.5°	9.9	9.9	9.5	8.1	8.1
45°	7.2	7.2	6.8	6.3	6.3
47.5°	5.9	5.4	5.0	5.0	5.0
50°	4.5	4.5	4.1	3.6	4.1
52.5°	3.6	3.6	3.2	3.2	3.2
55°	3.2	2.7	2.3	2.3	2.7
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)