

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: P282238

Luminaire Tested: **LDA2B109027D010 EU2B10NFL259027 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282238  
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: LDA2B109027D010 EU2B10NFL259027 2LBAPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MMS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 759.3 lumens  
Efficiency: N/A  
Efficacy: 75.9 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

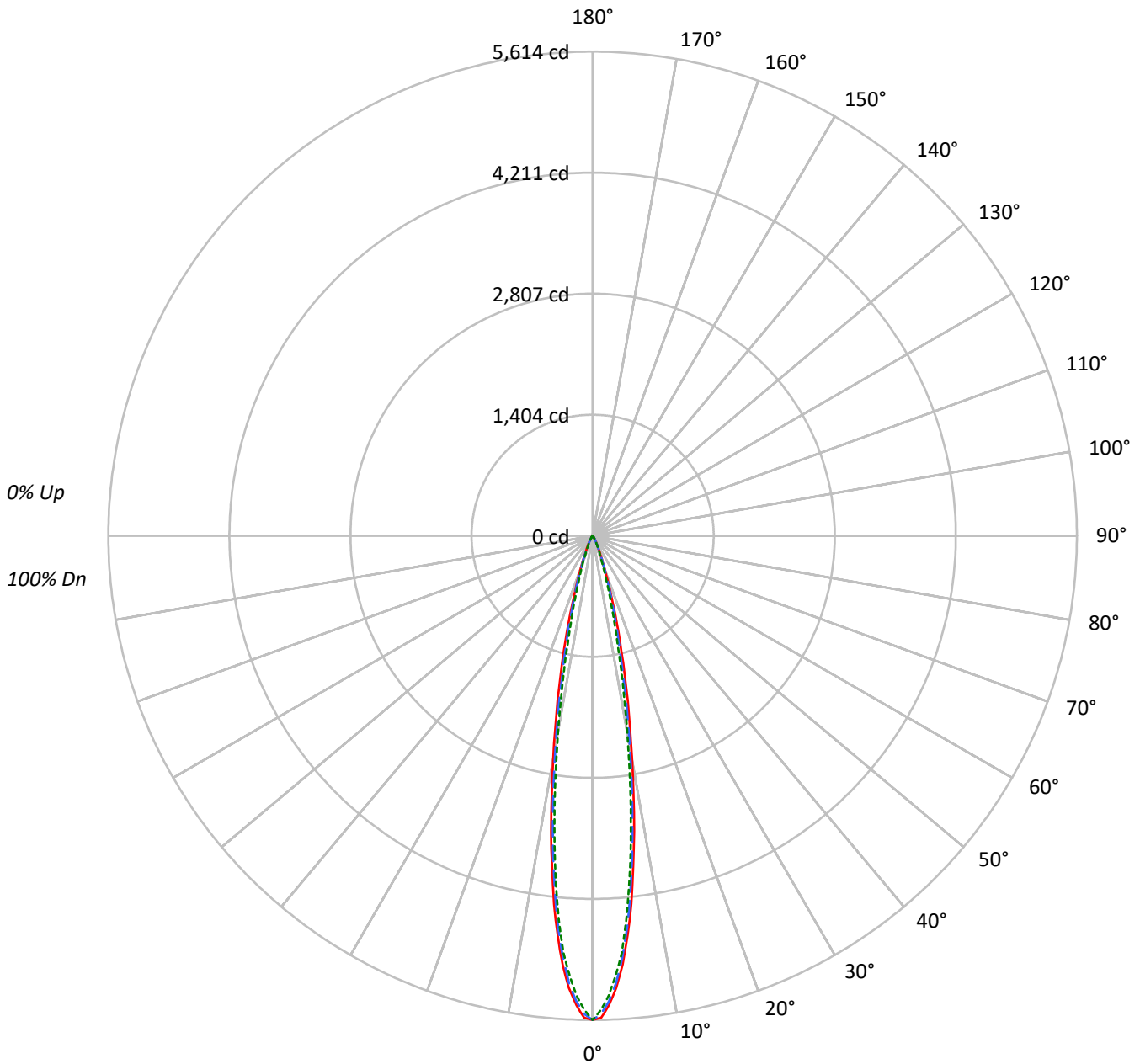
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2769930	2769930	2769930
5°	2304877	2262632	2216970
10°	1320213	1238855	1156245
15°	587176	521492	437011
20°	213002	200297	158662
25°	81818	76374	65759
30°	35264	32814	29111
35°	16683	16683	13792
40°	8372	8630	6956
45°	4814	4535	4256
50°	3300	2993	2993
55°	2580	1892	2236
60°	2171	1283	1677
65°	1518	1051	1518
70°	1298	577	1298
75°	762	762	762
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	365.2	48.1
10°-20°	295.5	38.9
20°-30°	71.3	9.4
30°-40°	18.2	2.4
40°-50°	5.4	0.7
50°-60°	2.3	0.3
60°-70°	1.1	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°	731.9	96.4
0°-40°	750.1	98.8
0°-60°	757.8	99.8
0°-90°	759.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	759.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5614	5614	5614	5614	5614	
5°	4654	4611	4569	4529	4476	376
15°	1150	1122	1021	920	856	328
25°	150	151	140	127	121	78
35°	28	28	28	25	23	19
45°	7	7	6	6	6	6
55°	3	3	2	2	3	3
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°	5614.4	5614.4	5614.4	5614.4	5614.4
1°	5589.3	5550.4	5545.6	5569.8	5498.4
2°	5446.4	5418.7	5402.7	5417.0	5336.0
3°	5250.3	5223.4	5194.4	5194.9	5104.4
4°	4983.1	4961.9	4913.0	4898.2	4845.8
5°	4654.0	4611.2	4568.7	4528.9	4476.5
6°	4290.3	4234.9	4174.2	4114.9	4061.2
7°	3862.5	3825.7	3745.6	3664.6	3619.1
8°	3460.2	3400.9	3307.4	3206.0	3167.5
9°	3027.6	2985.2	2877.8	2760.0	2721.5
10°	2635.3	2591.1	2472.9	2341.7	2308.0
11°	2267.3	2225.7	2102.7	1965.0	1929.1
12°	1955.9	1897.0	1755.9	1636.4	1601.3
13°	1645.9	1605.6	1471.8	1353.6	1285.6
14°	1382.2	1348.8	1227.6	1123.7	1051.8
15°	1149.6	1122.4	1021.0	919.7	855.6
16°	943.1	926.2	846.1	748.2	695.9
17°	765.1	749.5	698.4	608.4	564.2
18°	617.9	615.7	573.3	495.4	456.0
19°	508.4	507.5	468.5	403.1	370.7
20°	405.7	411.4	381.5	324.3	302.2
21°	330.8	333.9	310.0	266.7	246.8
22°	269.3	271.5	255.9	220.4	209.6
23°	220.8	222.1	209.1	182.7	173.2
24°	181.9	182.7	171.0	152.4	144.2
25°	150.3	151.1	140.3	127.3	120.8
26°	124.7	125.6	116.0	107.0	100.5
27°	103.5	105.2	95.7	90.1	83.1
28°	88.3	88.8	80.1	76.6	70.1
29°	72.3	74.9	67.6	64.5	59.8
30°	61.9	63.2	57.6	55.4	51.1
32.5°	41.1	42.0	39.4	37.7	34.2
35°	27.7	28.1	27.7	25.1	22.9
37.5°	19.1	19.1	19.5	16.5	15.6
40°	13.0	13.0	13.4	11.3	10.8
42.5°	9.5	9.5	9.1	7.8	7.8
45°	6.9	6.9	6.5	6.1	6.1
47.5°	5.6	5.2	4.8	4.8	4.8
50°	4.3	4.3	3.9	3.5	3.9
52.5°	3.5	3.5	3.0	3.0	3.0
55°	3.0	2.6	2.2	2.2	2.6
57.5°	2.2	2.2	1.7	1.7	2.2
60°	2.2	1.7	1.3	1.7	1.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1.3	0.9	0.9	0.9	0.9
70°	0.9	0.9	0.4	0.4	0.9
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°	1.7	1.3	1.3	1.3	1.3
65°	1.3	1.3	0.9	0.9	1.3



(END OF REPORT)