

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: P282723

Luminaire Tested: **LDA2B159027D010 EU2B15NFL259027 2LBALPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282723  
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: LDA2B159027D010 EU2B15NFL259027 2LBALPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 928.0 lumens  
Efficiency: N/A  
Efficacy: 65.8 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

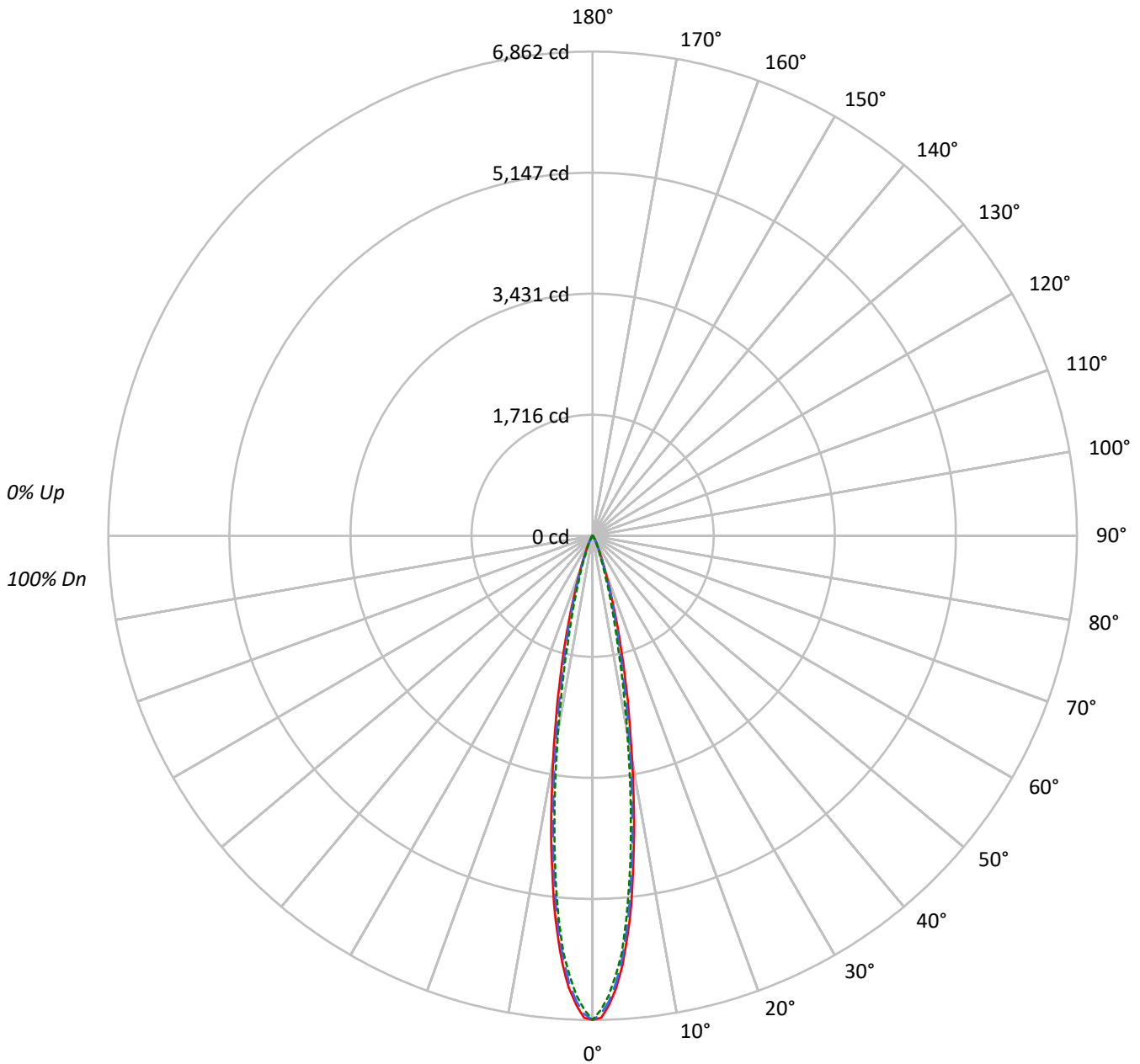
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3385350	3385350	3385350
5°	2816961	2765357	2709542
10°	1613533	1514140	1413094
15°	717677	637385	534108
20°	260360	244766	193944
25°	99945	93359	80403
30°	43125	40106	35548
35°	20417	20417	16864
40°	10240	10562	8501
45°	5931	5512	5163
50°	4068	3684	3684
55°	3183	2236	2752
60°	2565	1579	2072
65°	1868	1284	1868
70°	1587	721	1587
75°	953	953	953
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	446.3	48.1
10°-20°	361.2	38.9
20°-30°	87.1	9.4
30°-40°	22.2	2.4
40°-50°	6.6	0.7
50°-60°	2.8	0.3
60°-70°	1.4	0.1
70°-80°	0.4	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°	894.5	96.4
0°-40°	916.7	98.8
0°-60°	926.2	99.8
0°-90°	928.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	928.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6862	6862	6862	6862	6862	
5°	5688	5636	5584	5535	5471	460
15°	1405	1372	1248	1124	1046	401
25°	184	185	172	156	148	95
35°	34	34	34	31	28	23
45°	8	8	8	7	7	7
55°	4	3	3	3	3	3
65°	2	2	1	1	2	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°	6861.8	6861.8	6861.8	6861.8	6861.8
1°	6831.1	6783.5	6777.7	6807.3	6720.0
2°	6656.5	6622.6	6603.0	6620.5	6521.5
3°	6416.8	6384.0	6348.5	6349.0	6238.4
4°	6090.2	6064.3	6004.5	5986.5	5922.5
5°	5688.0	5635.6	5583.8	5535.1	5471.1
6°	5243.5	5175.7	5101.7	5029.2	4963.5
7°	4720.6	4675.6	4577.7	4478.8	4423.2
8°	4229.0	4156.5	4042.2	3918.3	3871.2
9°	3700.3	3648.4	3517.2	3373.2	3326.1
10°	3220.8	3166.8	3022.4	2862.0	2820.7
11°	2771.0	2720.2	2569.9	2401.6	2357.7
12°	2390.5	2318.5	2146.0	1999.9	1957.0
13°	2011.6	1962.3	1798.8	1654.3	1571.2
14°	1689.3	1648.5	1500.3	1373.3	1285.5
15°	1405.1	1371.7	1247.9	1124.1	1045.7
16°	1152.6	1132.0	1034.1	914.5	850.5
17°	935.1	916.1	853.6	743.6	689.6
18°	755.2	752.5	700.7	605.4	557.3
19°	621.3	620.2	572.6	492.7	453.0
20°	495.9	502.8	466.2	396.4	369.4
21°	404.3	408.0	378.9	326.0	301.7
22°	329.2	331.8	312.8	269.4	256.1
23°	269.9	271.5	255.6	223.3	211.7
24°	222.3	223.3	209.0	186.3	176.2
25°	183.6	184.7	171.5	155.6	147.7
26°	152.4	153.5	141.8	130.7	122.8
27°	126.5	128.6	117.0	110.1	101.6
28°	108.0	108.5	97.9	93.7	85.7
29°	88.4	91.6	82.6	78.9	73.0
30°	75.7	77.3	70.4	67.7	62.4
32.5°	50.3	51.3	48.2	46.0	41.8
35°	33.9	34.4	33.9	30.7	28.0
37.5°	23.3	23.3	23.8	20.1	19.1
40°	15.9	15.9	16.4	13.8	13.2
42.5°	11.6	11.6	11.1	9.5	9.5
45°	8.5	8.5	7.9	7.4	7.4
47.5°	6.9	6.4	5.8	5.8	5.8
50°	5.3	5.3	4.8	4.2	4.8
52.5°	4.2	4.2	3.7	3.7	3.7
55°	3.7	3.2	2.6	2.6	3.2
57.5°	2.6	2.6	2.1	2.1	2.6
60°	2.6	2.1	1.6	2.1	2.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1.6	1.1	1.1	1.1	1.1
70°	1.1	1.1	0.5	0.5	1.1
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°	2.1	1.6	1.6	1.6	1.6
65°	1.6	1.6	1.1	1.1	1.6



(END OF REPORT)