

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: P282737

Luminaire Tested: **LDA2B159727D010 EU2B15NFL259727 2LBALPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282737  
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: LDA2B159727D010 EU2B15NFL259727 2LBALPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 1500 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: 846.9 lumens  
Efficiency: N/A  
Efficacy: 60.1 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

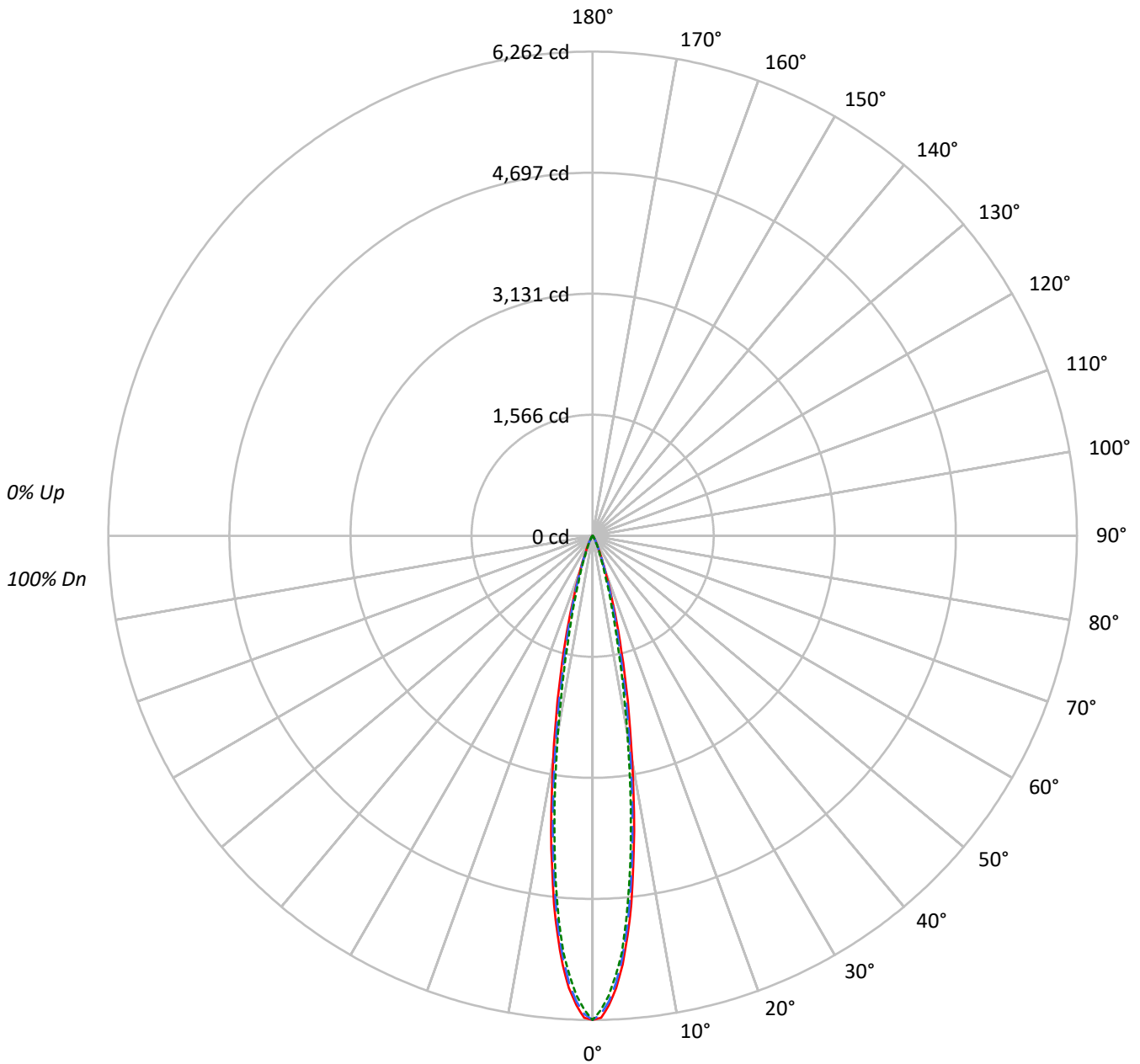
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3089530	3089530	3089530
5°	2570824	2523676	2472765
10°	1472559	1381783	1289604
15°	654955	581660	487475
20°	237574	223398	176986
25°	91235	85193	73326
30°	39365	36574	32472
35°	18611	18611	15418
40°	9339	9661	7793
45°	5372	5024	4744
50°	3684	3300	3300
55°	2925	2064	2494
60°	2368	1381	1875
65°	1634	1167	1634
70°	1442	721	1442
75°	953	953	953
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	407.3	48.1
10°-20°	329.6	38.9
20°-30°	79.5	9.4
30°-40°	20.3	2.4
40°-50°	6.0	0.7
50°-60°	2.6	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°	816.4	96.4
0°-40°	836.6	98.8
0°-60°	845.2	99.8
0°-90°	846.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	846.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6262	6262	6262	6262	6262	
5°	5191	5143	5096	5051	4993	420
15°	1282	1252	1139	1026	954	366
25°	168	169	156	142	135	87
35°	31	31	31	28	26	21
45°	8	8	7	7	7	7
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°	6262.2	6262.2	6262.2	6262.2	6262.2
1°	6234.2	6190.7	6185.4	6212.5	6132.8
2°	6074.8	6043.9	6026.0	6042.0	5951.7
3°	5856.0	5826.1	5793.7	5794.2	5693.3
4°	5558.0	5534.4	5479.8	5463.4	5404.9
5°	5191.0	5143.2	5095.8	5051.4	4993.0
6°	4785.3	4723.5	4655.8	4589.7	4529.8
7°	4308.1	4267.1	4177.7	4087.4	4036.7
8°	3859.4	3793.3	3688.9	3575.9	3532.9
9°	3376.9	3329.6	3209.8	3078.5	3035.5
10°	2939.4	2890.1	2758.2	2611.9	2574.2
11°	2528.8	2482.5	2345.3	2191.7	2151.6
12°	2181.6	2115.9	1958.4	1825.1	1786.0
13°	1835.8	1790.9	1641.6	1509.8	1433.9
14°	1541.6	1504.5	1369.2	1253.3	1173.1
15°	1282.3	1251.9	1138.8	1025.8	954.4
16°	1051.9	1033.1	943.7	834.6	776.1
17°	853.4	836.0	779.0	678.6	629.3
18°	689.2	686.8	639.5	552.5	508.6
19°	567.0	566.0	522.6	449.6	413.4
20°	452.5	458.8	425.5	361.7	337.1
21°	369.0	372.4	345.8	297.5	275.3
22°	300.4	302.8	285.4	245.8	233.8
23°	246.3	247.8	233.3	203.8	193.2
24°	202.8	203.8	190.8	170.0	160.8
25°	167.6	168.6	156.5	142.0	134.7
26°	139.1	140.1	129.4	119.3	112.0
27°	115.4	117.4	106.7	100.5	92.7
28°	98.5	99.0	89.3	85.5	78.2
29°	80.7	83.6	75.3	72.0	66.7
30°	69.1	70.5	64.2	61.8	57.0
32.5°	45.9	46.8	44.0	42.0	38.2
35°	30.9	31.4	30.9	28.0	25.6
37.5°	21.3	21.3	21.7	18.4	17.4
40°	14.5	14.5	15.0	12.6	12.1
42.5°	10.6	10.6	10.1	8.7	8.7
45°	7.7	7.7	7.2	6.8	6.8
47.5°	6.3	5.8	5.3	5.3	5.3
50°	4.8	4.8	4.3	3.9	4.3
52.5°	3.9	3.9	3.4	3.4	3.4
55°	3.4	2.9	2.4	2.4	2.9
57.5°	2.4	2.4	1.9	1.9	2.4
60°	2.4	1.9	1.4	1.9	1.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1.4	1.0	1.0	1.0	1.0
70°	1.0	1.0	0.5	0.5	1.0
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°	1.9	1.4	1.4	1.4	1.4
65°	1.4	1.4	1.0	1.0	1.4



(END OF REPORT)