

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: P282320

Luminaire Tested: **LDA2B159027D010 EU2B15NFL259027 2LBAPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282320  
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 2LBAPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MW  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1020.7 lumens  
Efficiency: N/A  
Efficacy: 72.4 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

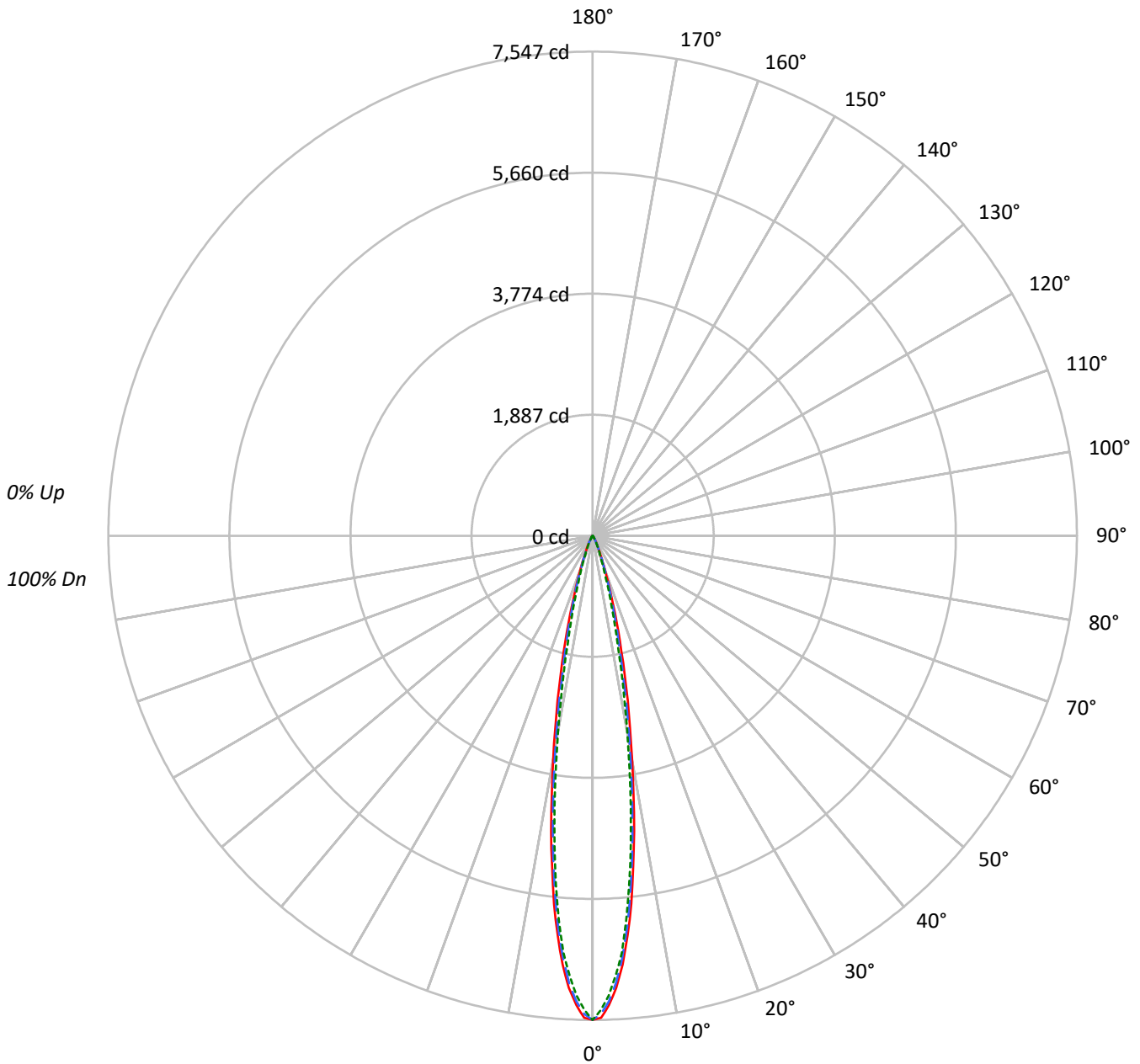
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3723500	3723500	3723500
5°	3098311	3041555	2980145
10°	1774696	1665333	1554268
15°	789337	701026	587483
20°	286348	269233	213318
25°	109962	102667	88405
30°	47398	44094	39137
35°	22465	22465	18550
40°	11271	11593	9403
45°	6489	6070	5652
50°	4452	3991	3991
55°	3527	2494	3011
60°	2861	1677	2269
65°	1985	1401	1985
70°	1731	865	1731
75°	1144	1144	1144
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	490.9	48.1
10°-20°	397.2	38.9
20°-30°	95.8	9.4
30°-40°	24.4	2.4
40°-50°	7.3	0.7
50°-60°	3.1	0.3
60°-70°	1.5	0.1
70°-80°	0.5	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°	983.9	96.4
0°-40°	1008.3	98.8
0°-60°	1018.7	99.8
0°-90°	1020.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1020.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7547	7547	7547	7547	7547	
5°	6256	6198	6142	6088	6018	506
15°	1545	1509	1372	1236	1150	441
25°	202	203	189	171	162	104
35°	37	38	37	34	31	26
45°	9	9	9	8	8	8
55°	4	4	3	3	4	4
65°	2	2	1	1	2	2
75°	1	1	1	1	1	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°	7547.2	7547.2	7547.2	7547.2	7547.2
1°	7513.4	7461.0	7454.6	7487.2	7391.2
2°	7321.3	7284.1	7262.5	7281.7	7172.9
3°	7057.6	7021.6	6982.6	6983.1	6861.5
4°	6698.5	6670.0	6604.2	6584.4	6514.0
5°	6256.1	6198.5	6141.5	6087.9	6017.5
6°	5767.2	5692.7	5611.2	5531.4	5459.3
7°	5192.1	5142.6	5034.9	4926.1	4865.0
8°	4651.4	4571.6	4445.9	4309.7	4257.9
9°	4069.9	4012.8	3868.5	3710.1	3658.3
10°	3542.5	3483.1	3324.2	3147.9	3102.5
11°	3047.7	2991.9	2826.5	2641.4	2593.1
12°	2629.2	2550.1	2360.3	2199.7	2152.5
13°	2212.5	2158.3	1978.5	1819.6	1728.2
14°	1858.0	1813.2	1650.2	1510.5	1413.9
15°	1545.4	1508.7	1372.5	1236.3	1150.2
16°	1267.8	1245.1	1137.4	1005.8	935.4
17°	1028.5	1007.6	938.9	817.8	758.4
18°	830.6	827.7	770.7	665.9	612.9
19°	683.4	682.2	629.8	541.9	498.3
20°	545.4	553.0	512.8	436.0	406.3
21°	444.7	448.8	416.8	358.6	331.8
22°	362.0	365.0	344.0	296.3	281.7
23°	296.9	298.6	281.1	245.6	232.8
24°	244.5	245.6	229.9	204.9	193.8
25°	202.0	203.1	188.6	171.1	162.4
26°	167.6	168.8	156.0	143.8	135.0
27°	139.1	141.4	128.6	121.1	111.8
28°	118.7	119.3	107.7	103.0	94.3
29°	97.2	100.7	90.8	86.7	80.3
30°	83.2	85.0	77.4	74.5	68.7
32.5°	55.3	56.5	53.0	50.6	46.0
35°	37.3	37.8	37.3	33.8	30.8
37.5°	25.6	25.6	26.2	22.1	21.0
40°	17.5	17.5	18.0	15.1	14.6
42.5°	12.8	12.8	12.2	10.5	10.5
45°	9.3	9.3	8.7	8.1	8.1
47.5°	7.6	7.0	6.4	6.4	6.4
50°	5.8	5.8	5.2	4.7	5.2
52.5°	4.7	4.7	4.1	4.1	4.1
55°	4.1	3.5	2.9	2.9	3.5
57.5°	2.9	2.9	2.3	2.3	2.9
60°	2.9	2.3	1.7	2.3	2.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1.7	1.2	1.2	1.2	1.2
70°	1.2	1.2	0.6	0.6	1.2
72.5°	0.6	0.6	0.6	0.6	0.6
75°	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.0	0.0	0.6
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°	2.3	1.7	1.7	1.7	1.7
65°	1.7	1.7	1.2	1.2	1.7



(END OF REPORT)