

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: P282729

Luminaire Tested: **LDA2B159035D010 EU2B15NFL259035 2LBALPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282729  
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: LDA2B159035D010 EU2B15NFL259035 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: 1005.1 lumens  
Efficiency: N/A  
Efficacy: 71.3 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

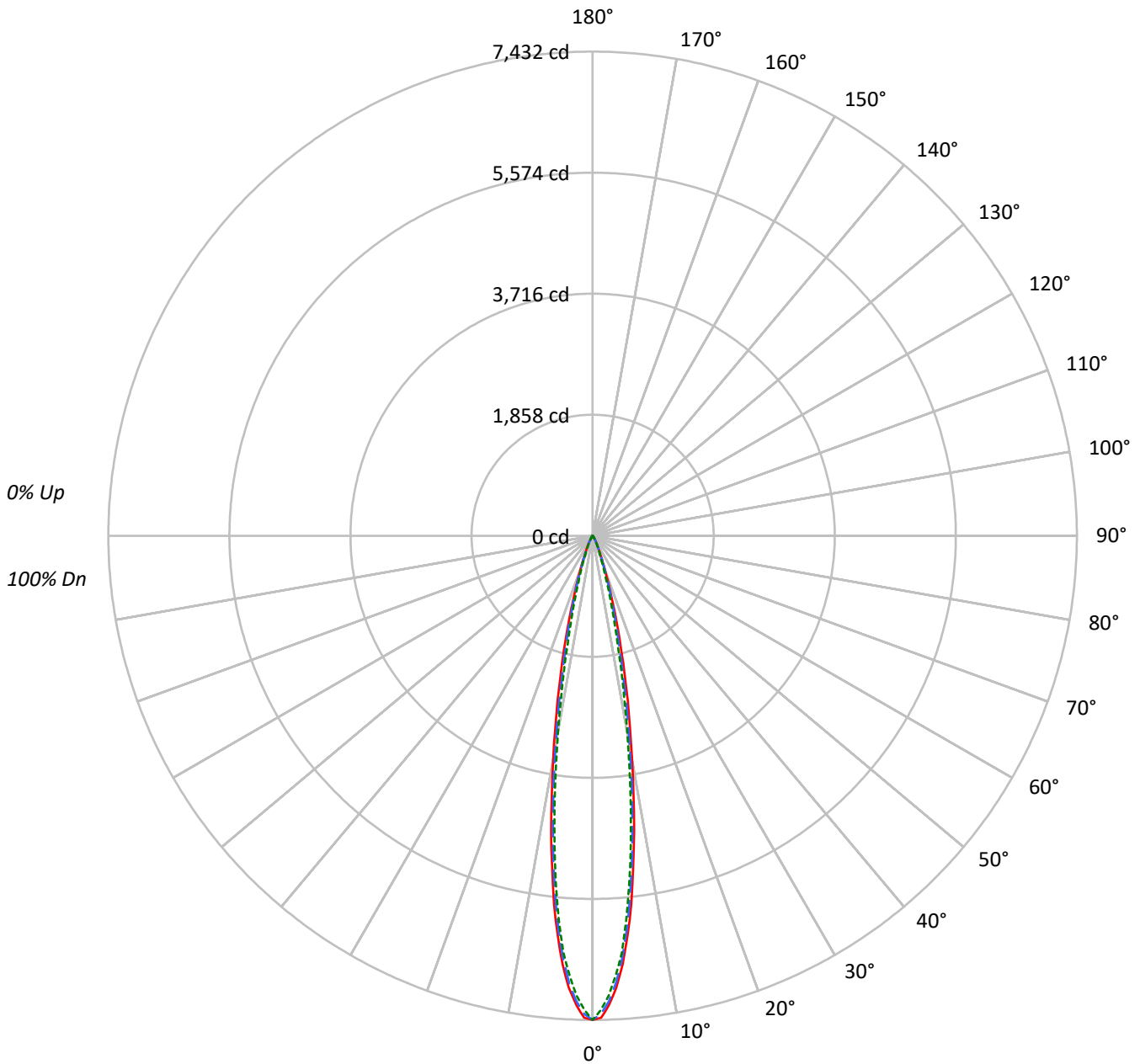
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3666714	3666714	3666714
5°	3051114	2995200	2934731
10°	1747643	1639984	1530572
15°	777334	690351	578493
20°	281991	265137	210062
25°	108274	101088	87044
30°	46714	43410	38511
35°	22104	22104	18309
40°	11077	11464	9210
45°	6419	6000	5582
50°	4375	3991	3991
55°	3441	2494	2925
60°	2861	1677	2269
65°	1985	1284	1985
70°	1587	865	1587
75°	1144	1144	1144
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	483.4	48.1
10°-20°	391.2	38.9
20°-30°	94.3	9.4
30°-40°	24.1	2.4
40°-50°	7.2	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°	968.9	96.4
0°-40°	992.9	98.8
0°-60°	1003.2	99.8
0°-90°	1005.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1005.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7432	7432	7432	7432	7432	
5°	6161	6104	6048	5995	5926	498
15°	1522	1486	1352	1218	1133	434
25°	199	200	186	168	160	103
35°	37	37	37	33	30	25
45°	9	9	9	8	8	8
55°	4	3	3	3	3	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°	7432.1	7432.1	7432.1	7432.1	7432.1
1°	7398.9	7347.3	7341.0	7373.1	7278.5
2°	7209.7	7173.1	7151.8	7170.8	7063.6
3°	6950.1	6914.5	6876.1	6876.7	6756.9
4°	6596.4	6568.3	6503.6	6484.1	6414.7
5°	6160.8	6104.0	6047.9	5995.1	5925.8
6°	5679.3	5605.9	5525.7	5447.1	5376.1
7°	5113.0	5064.2	4958.2	4851.0	4790.8
8°	4580.5	4501.9	4378.1	4244.0	4193.0
9°	4007.8	3951.7	3809.5	3653.6	3602.6
10°	3488.5	3430.0	3273.6	3099.9	3055.2
11°	3001.3	2946.3	2783.5	2601.2	2553.6
12°	2589.2	2511.2	2324.3	2166.1	2119.7
13°	2178.7	2125.4	1948.3	1791.8	1701.8
14°	1829.7	1785.5	1625.0	1487.5	1392.3
15°	1521.9	1485.7	1351.6	1217.5	1132.6
16°	1248.4	1226.1	1120.0	990.5	921.1
17°	1012.8	992.2	924.6	805.3	746.9
18°	818.0	815.1	758.9	655.7	603.6
19°	672.9	671.8	620.2	533.7	490.7
20°	537.1	544.5	505.0	429.3	400.1
21°	437.9	441.9	410.4	353.1	326.7
22°	356.5	359.4	338.8	291.8	277.4
23°	292.3	294.1	276.9	241.9	229.3
24°	240.7	241.9	226.4	201.8	190.9
25°	198.9	200.0	185.7	168.5	159.9
26°	165.1	166.2	153.6	141.6	133.0
27°	137.0	139.3	126.7	119.2	110.1
28°	116.9	117.5	106.0	101.5	92.9
29°	95.7	99.2	89.4	85.4	79.1
30°	82.0	83.7	76.2	73.4	67.6
32.5°	54.5	55.6	52.2	49.9	45.3
35°	36.7	37.3	36.7	33.2	30.4
37.5°	25.2	25.2	25.8	21.8	20.6
40°	17.2	17.2	17.8	14.9	14.3
42.5°	12.6	12.6	12.0	10.3	10.3
45°	9.2	9.2	8.6	8.0	8.0
47.5°	7.5	6.9	6.3	6.3	6.3
50°	5.7	5.7	5.2	4.6	5.2
52.5°	4.6	4.6	4.0	4.0	4.0
55°	4.0	3.4	2.9	2.9	3.4
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	1.1	1.1	1.1	1.1
70°	1.1	1.1	0.6	0.6	1.1
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	1.1	1.1	1.7



(END OF REPORT)