

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: P284018

Luminaire Tested: **LDA2B159040D010 EU2B15WFL559040 2LBAPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P284018  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-61)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B159040D010 EU2B15WFL559040 2LBAPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj SQ PinHole, MW  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1133.9 lumens  
Efficiency: N/A  
Efficacy: 80.4 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

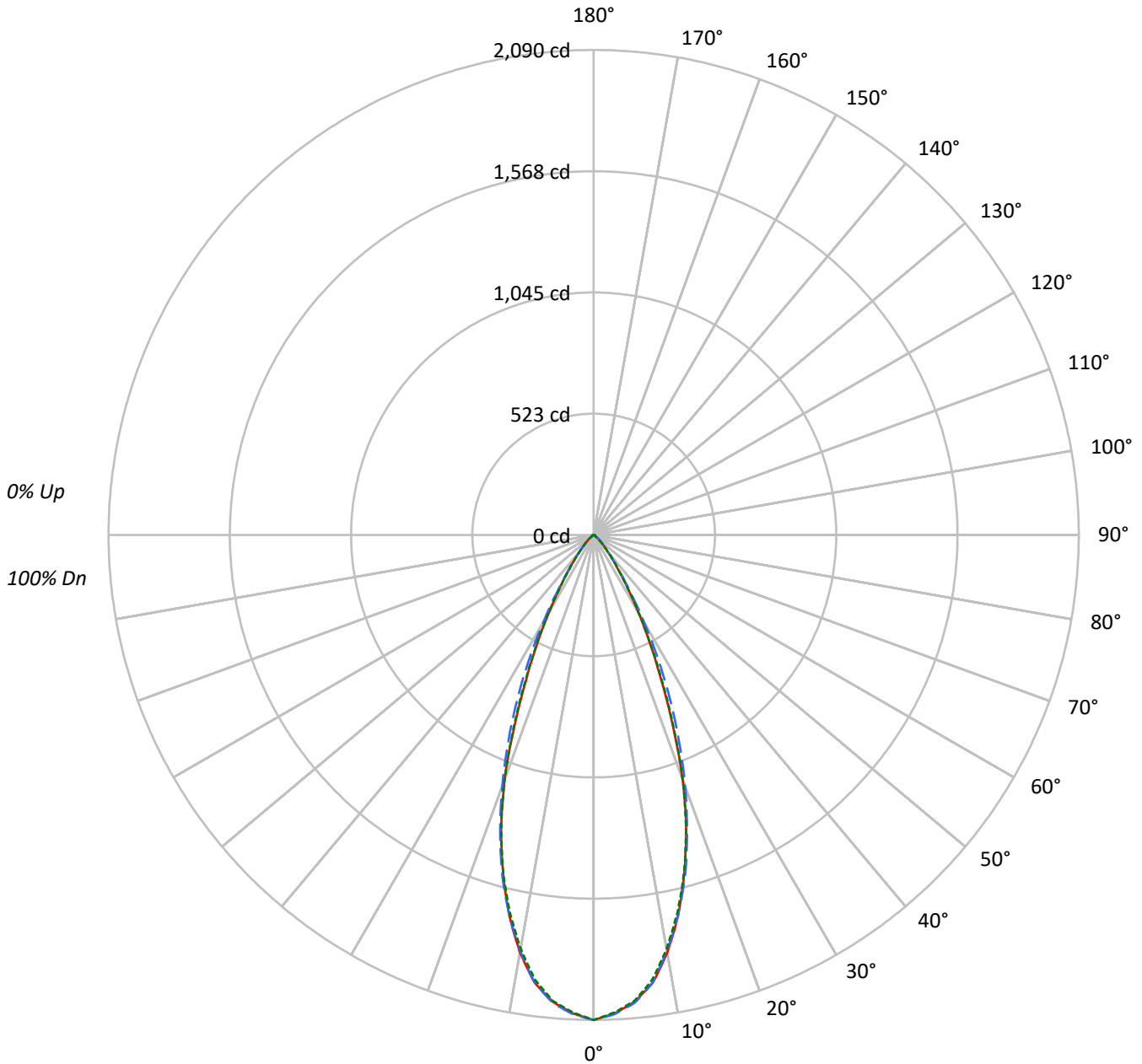
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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																			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89																			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84																			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79																			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75																			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71																			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67																			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64																			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61																			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1031373	1031373	1031373
5°	1000348	1002775	998268
10°	915678	912021	906560
15°	770235	777334	768958
20°	588973	604618	588028
25°	374033	421719	381327
30°	217563	245591	221323
35°	114976	122324	115337
40°	60668	63438	60668
45°	33909	35235	34398
50°	15888	20033	15888
55°	5763	11010	6279
60°	6611	6611	6611
65°	7121	7822	7121
70°	8799	7934	8799
75°	8197	8197	8197
80°	8523	6819	8523
85°	6793	6793	6793



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.6	16.5
10°-20°	415.5	36.6
20°-30°	335.5	29.6
30°-40°	132.6	11.7
40°-50°	40.7	3.6
50°-60°	10.5	0.9
60°-70°	6.4	0.6
70°-80°	4.7	0.4
80°-90°	1.4	0.1
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°	937.6	82.7
0°-40°	1070.3	94.4
0°-60°	1121.5	98.9
0°-90°	1133.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1133.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2090	2090	2090	2090	2090	
5°	2020	2024	2025	2020	2016	187
15°	1508	1512	1522	1516	1506	414
25°	687	720	775	733	700	320
35°	191	196	203	197	192	128
45°	49	49	50	50	49	40
55°	7	9	13	9	7	8
65°	6	7	7	7	6	6
75°	4	4	4	4	4	5
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2090.5	2090.5	2090.5	2090.5	2090.5
2.5°	2064.3	2065.5	2067.4	2064.9	2058.9
5°	2019.9	2023.6	2024.8	2020.5	2015.7
7.5°	1947.0	1942.7	1946.4	1939.1	1933.0
10°	1827.8	1822.3	1820.5	1809.6	1809.6
12.5°	1680.6	1678.8	1680.0	1674.6	1666.1
15°	1508.0	1512.2	1521.9	1515.9	1505.5
17.5°	1324.9	1331.0	1339.5	1337.7	1323.7
20°	1121.8	1139.5	1151.6	1140.1	1120.0
22.5°	890.8	928.5	959.5	935.2	902.3
25°	687.1	719.9	774.7	733.3	700.5
27.5°	521.1	544.8	594.7	553.9	531.4
30°	381.9	396.4	431.1	404.4	388.5
32.5°	273.0	283.4	297.9	282.1	274.2
35°	190.9	196.4	203.1	197.0	191.5
37.5°	134.4	136.2	141.1	136.2	133.8
40°	94.2	94.9	98.5	95.5	94.2
42.5°	68.1	68.1	69.9	68.7	68.1
45°	48.6	49.3	50.5	49.9	49.3
47.5°	34.7	35.9	35.9	36.5	34.1
50°	20.7	25.5	26.1	25.5	20.7
52.5°	10.9	15.2	18.8	15.2	10.9
55°	6.7	9.1	12.8	9.1	7.3
57.5°	6.7	6.7	8.5	7.3	6.7
60°	6.7	6.7	6.7	6.7	6.7
62.5°	6.7	6.7	6.7	6.7	6.7
65°	6.1	6.7	6.7	6.7	6.1
67.5°	6.1	6.1	6.1	6.1	6.1
70°	6.1	6.1	5.5	6.1	6.1
72.5°	5.5	5.5	4.9	5.5	5.5
75°	4.3	4.3	4.3	4.3	4.3
77.5°	3.6	3.6	3.6	3.6	3.6
80°	3.0	3.0	2.4	3.0	3.0
82.5°	1.8	1.8	1.8	1.8	1.8
85°	1.2	1.2	1.2	1.2	1.2
87.5°	0.6	0.6	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)