

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: P283976

Luminaire Tested: **LDA2B158035D010 EU2B15WFL558035 2LBAPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283976  
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: LDA2B158035D010 EU2B15WFL558035 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: 1340.6 lumens  
Efficiency: N/A  
Efficacy: 95.1 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

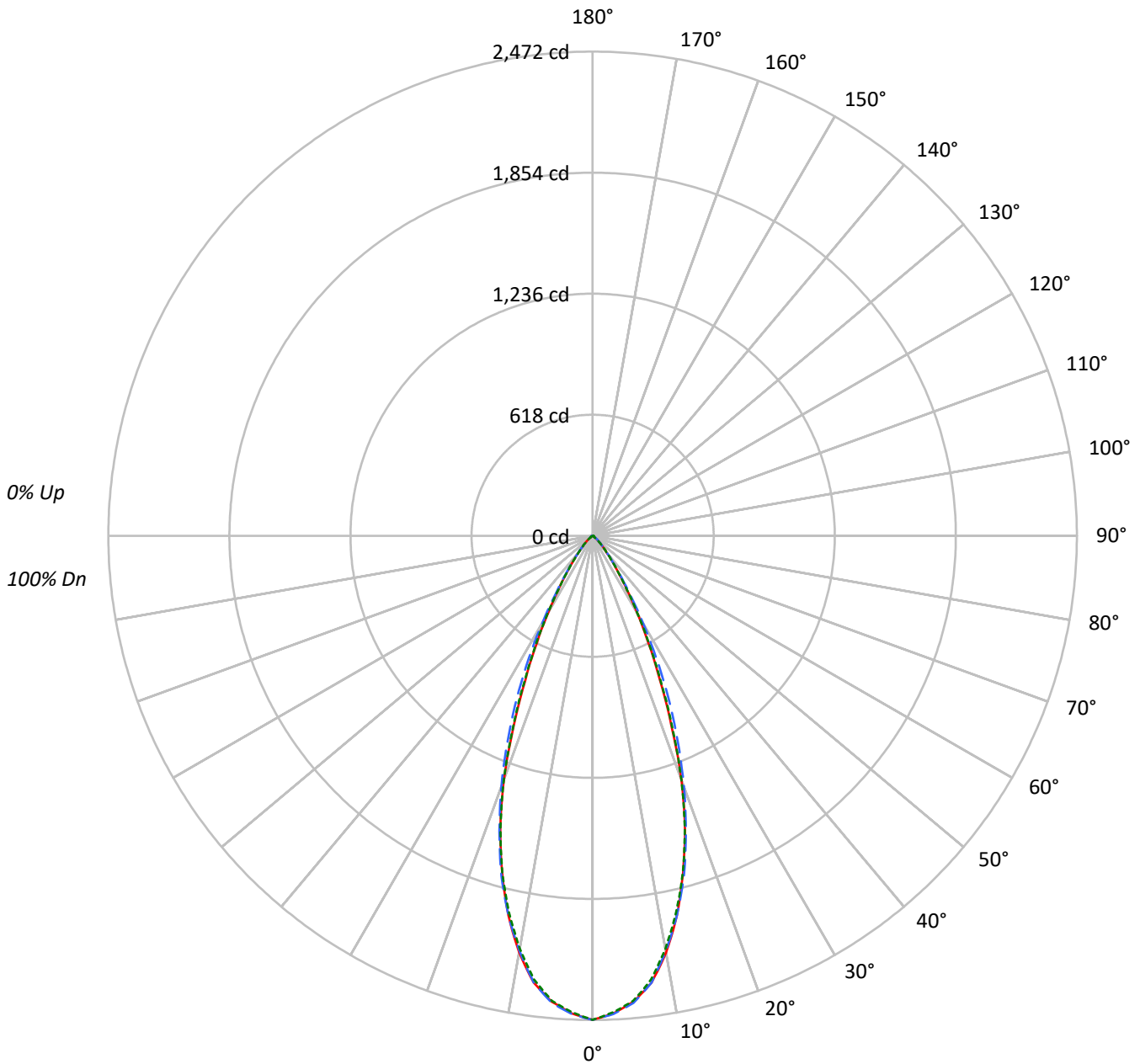
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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																			
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°	1219393	1219393	1219393
5°	1182747	1185570	1180222
10°	1082602	1078294	1071781
15°	910644	919072	909163
20°	696393	714874	695238
25°	442242	498583	450843
30°	257213	290369	261713
35°	135935	144608	136417
40°	71746	75030	71746
45°	40119	41654	40607
50°	18728	23717	18728
55°	6795	12988	7397
60°	7795	7795	7795
65°	8405	9222	8405
70°	10386	9376	10386
75°	9531	9531	9531
80°	10228	8239	10228
85°	7925	7925	7925



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.6	16.5
10°-20°	491.2	36.6
20°-30°	396.7	29.6
30°-40°	156.8	11.7
40°-50°	48.1	3.6
50°-60°	12.4	0.9
60°-70°	7.5	0.6
70°-80°	5.5	0.4
80°-90°	1.6	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°	1108.6	82.7
0°-40°	1265.4	94.4
0°-60°	1325.9	98.9
0°-90°	1340.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1340.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2472	2472	2472	2472	2472	
5°	2388	2392	2394	2389	2383	221
15°	1783	1788	1799	1792	1780	490
25°	812	851	916	867	828	378
35°	226	232	240	233	226	151
45°	58	58	60	59	58	47
55°	8	11	15	11	9	10
65°	7	8	8	8	7	7
75°	5	5	5	5	5	6
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2471.6	2471.6	2471.6	2471.6	2471.6
2.5°	2440.6	2442.1	2444.2	2441.4	2434.2
5°	2388.2	2392.5	2393.9	2388.9	2383.1
7.5°	2301.9	2296.9	2301.2	2292.6	2285.4
10°	2161.0	2154.5	2152.4	2139.4	2139.4
12.5°	1987.0	1984.9	1986.3	1979.8	1969.8
15°	1782.9	1787.9	1799.4	1792.2	1780.0
17.5°	1566.5	1573.7	1583.7	1581.6	1565.0
20°	1326.4	1347.2	1361.6	1347.9	1324.2
22.5°	1053.2	1097.8	1134.4	1105.7	1066.8
25°	812.4	851.2	915.9	867.0	828.2
27.5°	616.1	644.1	703.1	654.9	628.3
30°	451.5	468.7	509.7	478.1	459.4
32.5°	322.8	335.0	352.3	333.6	324.2
35°	225.7	232.2	240.1	232.9	226.5
37.5°	158.9	161.0	166.8	161.0	158.2
40°	111.4	112.1	116.5	112.9	111.4
42.5°	80.5	80.5	82.7	81.2	80.5
45°	57.5	58.2	59.7	58.9	58.2
47.5°	41.0	42.4	42.4	43.1	40.3
50°	24.4	30.2	30.9	30.2	24.4
52.5°	12.9	18.0	22.3	18.0	12.9
55°	7.9	10.8	15.1	10.8	8.6
57.5°	7.9	7.9	10.1	8.6	7.9
60°	7.9	7.9	7.9	7.9	7.9
62.5°	7.9	7.9	7.9	7.9	7.9
65°	7.2	7.9	7.9	7.9	7.2
67.5°	7.2	7.2	7.2	7.2	7.2
70°	7.2	7.2	6.5	7.2	7.2
72.5°	6.5	6.5	5.8	6.5	6.5
75°	5.0	5.0	5.0	5.0	5.0
77.5°	4.3	4.3	4.3	4.3	4.3
80°	3.6	3.6	2.9	3.6	3.6
82.5°	2.2	2.2	2.2	2.2	2.2
85°	1.4	1.4	1.4	1.4	1.4
87.5°	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)