

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: P282291

Luminaire Tested: **LDA2B158030D010 EU2B15NFL258030 2LBAPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282291  
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: LDA2B158030D010 EU2B15NFL258030 2LBAPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MB  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1306.0 lumens  
Efficiency: N/A  
Efficacy: 92.6 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

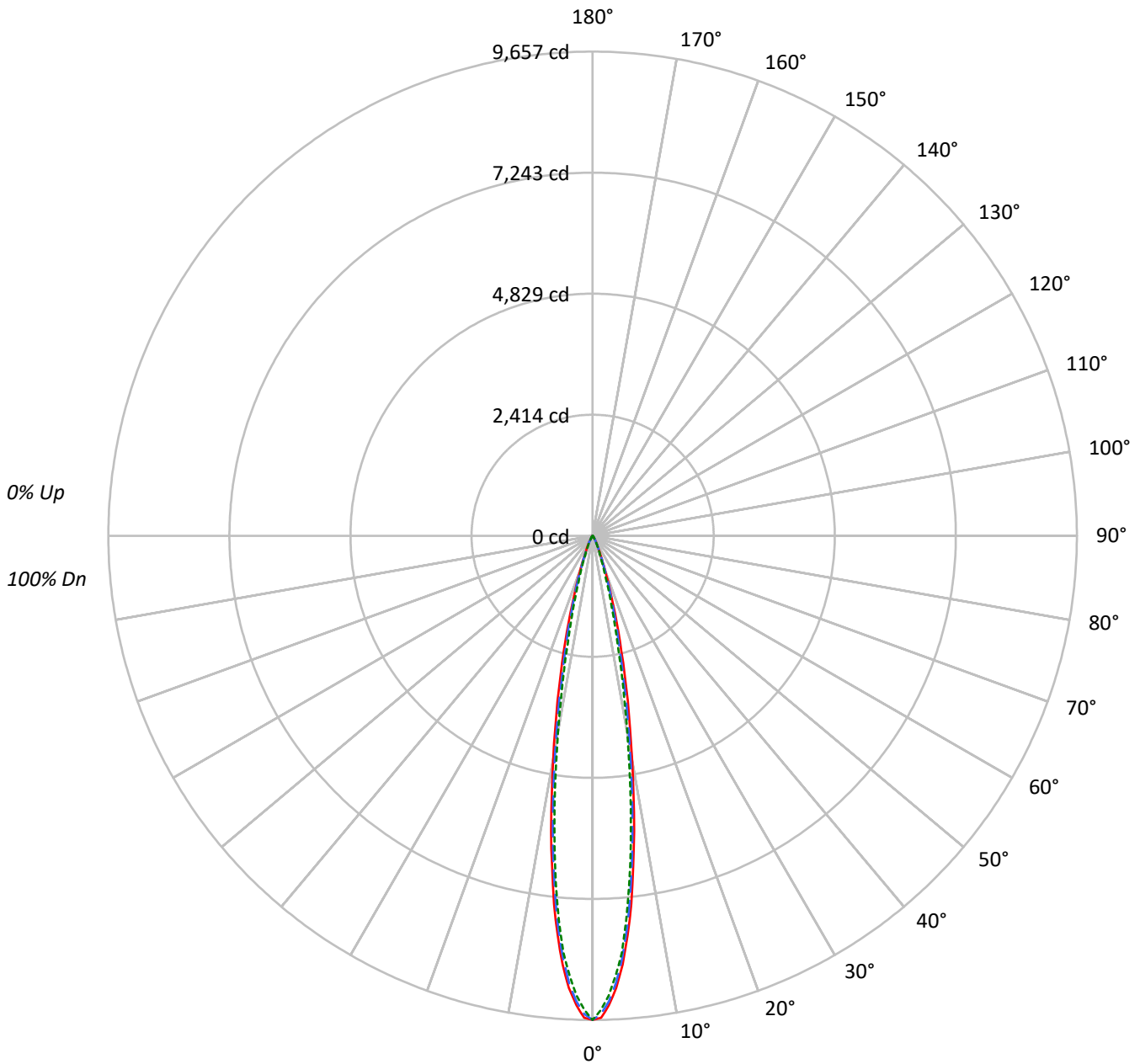
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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																			
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97																			
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95																			
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92																			
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90																			
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88																			
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86																			
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84																			
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83																			
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81																			
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79																			

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

	0°	45°	90°
0°	4764493	4764493	4764493
5°	3964546	3891893	3813298
10°	2270859	2130937	1988761
15°	1010039	897058	751694
20°	366415	344521	272960
25°	140664	131355	113119
30°	60671	56456	50075
35°	28729	28729	23790
40°	14362	14877	11979
45°	8303	7814	7256
50°	5680	5142	5142
55°	4473	3183	3871
60°	3651	2171	2960
65°	2568	1751	2568
70°	2164	1010	2164
75°	1334	1334	1334
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	628.1	48.1
10°-20°	508.3	38.9
20°-30°	122.6	9.4
30°-40°	31.2	2.4
40°-50°	9.3	0.7
50°-60°	4.0	0.3
60°-70°	1.9	0.1
70°-80°	0.6	0.0
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°	1259.0	96.4
0°-40°	1290.2	98.8
0°-60°	1303.5	99.8
0°-90°	1306.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1306.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9657	9657	9657	9657	9657	
5°	8005	7931	7858	7790	7700	647
15°	1978	1930	1756	1582	1472	564
25°	258	260	241	219	208	133
35°	48	48	48	43	40	33
45°	12	12	11	10	10	10
55°	5	4	4	4	4	5
65°	2	2	2	2	2	2
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9657.2	9657.2	9657.2	9657.2	9657.2
1°	9614.0	9546.9	9538.7	9580.4	9457.6
2°	9368.2	9320.5	9293.0	9317.5	9178.3
3°	9030.8	8984.6	8934.7	8935.4	8779.8
4°	8571.2	8534.7	8450.6	8425.3	8335.1
5°	8005.2	7931.4	7858.5	7789.9	7699.8
6°	7379.5	7284.2	7179.9	7077.9	6985.5
7°	6643.7	6580.4	6442.6	6303.3	6225.1
8°	5951.8	5849.7	5688.8	5514.5	5448.3
9°	5207.7	5134.7	4950.0	4747.4	4681.1
10°	4532.9	4456.9	4253.6	4027.9	3969.8
11°	3899.8	3828.3	3616.8	3379.9	3318.1
12°	3364.3	3263.0	3020.2	2814.6	2754.3
13°	2831.0	2761.7	2531.6	2328.3	2211.3
14°	2377.4	2320.1	2111.5	1932.8	1809.1
15°	1977.5	1930.5	1756.3	1582.0	1471.7
16°	1622.2	1593.1	1455.4	1287.0	1196.9
17°	1316.1	1289.3	1201.4	1046.5	970.5
18°	1062.8	1059.1	986.1	852.1	784.3
19°	874.4	872.9	805.9	693.4	637.6
20°	697.9	707.6	656.2	557.9	519.9
21°	569.0	574.2	533.3	458.8	424.5
22°	463.3	467.0	440.2	379.1	360.5
23°	379.9	382.1	359.7	314.3	297.9
24°	312.8	314.3	294.2	262.2	248.0
25°	258.4	259.9	241.3	219.0	207.8
26°	214.5	216.0	199.6	184.0	172.8
27°	178.0	181.0	164.6	154.9	143.0
28°	151.9	152.7	137.8	131.8	120.7
29°	124.4	128.9	116.2	111.0	102.8
30°	106.5	108.7	99.1	95.3	87.9
32.5°	70.8	72.2	67.8	64.8	58.8
35°	47.7	48.4	47.7	43.2	39.5
37.5°	32.8	32.8	33.5	28.3	26.8
40°	22.3	22.3	23.1	19.4	18.6
42.5°	16.4	16.4	15.6	13.4	13.4
45°	11.9	11.9	11.2	10.4	10.4
47.5°	9.7	8.9	8.2	8.2	8.2
50°	7.4	7.4	6.7	6.0	6.7
52.5°	6.0	6.0	5.2	5.2	5.2
55°	5.2	4.5	3.7	3.7	4.5
57.5°	3.7	3.7	3.0	3.0	3.7
60°	3.7	3.0	2.2	3.0	3.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	2.2	1.5	1.5	1.5	1.5
70°	1.5	1.5	0.7	0.7	1.5
72.5°	0.7	0.7	0.7	0.7	0.7
75°	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.7	0.0	0.0	0.7
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°	3.0	2.2	2.2	2.2	2.2
65°	2.2	2.2	1.5	1.5	2.2



(END OF REPORT)