

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: P281238

Luminaire Tested: **LDA2B158035D010 EU2B15SP158035 2LBALD1WMH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P281238  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-5)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B158035D010 EU2B15SP158035 2LBALD1WMH  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in  
ADJ spun Refl w/lens Self-Flanged, WMH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1455.5 lumens  
Efficiency: N/A  
Efficacy: 103.2 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.31 / 0.32  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

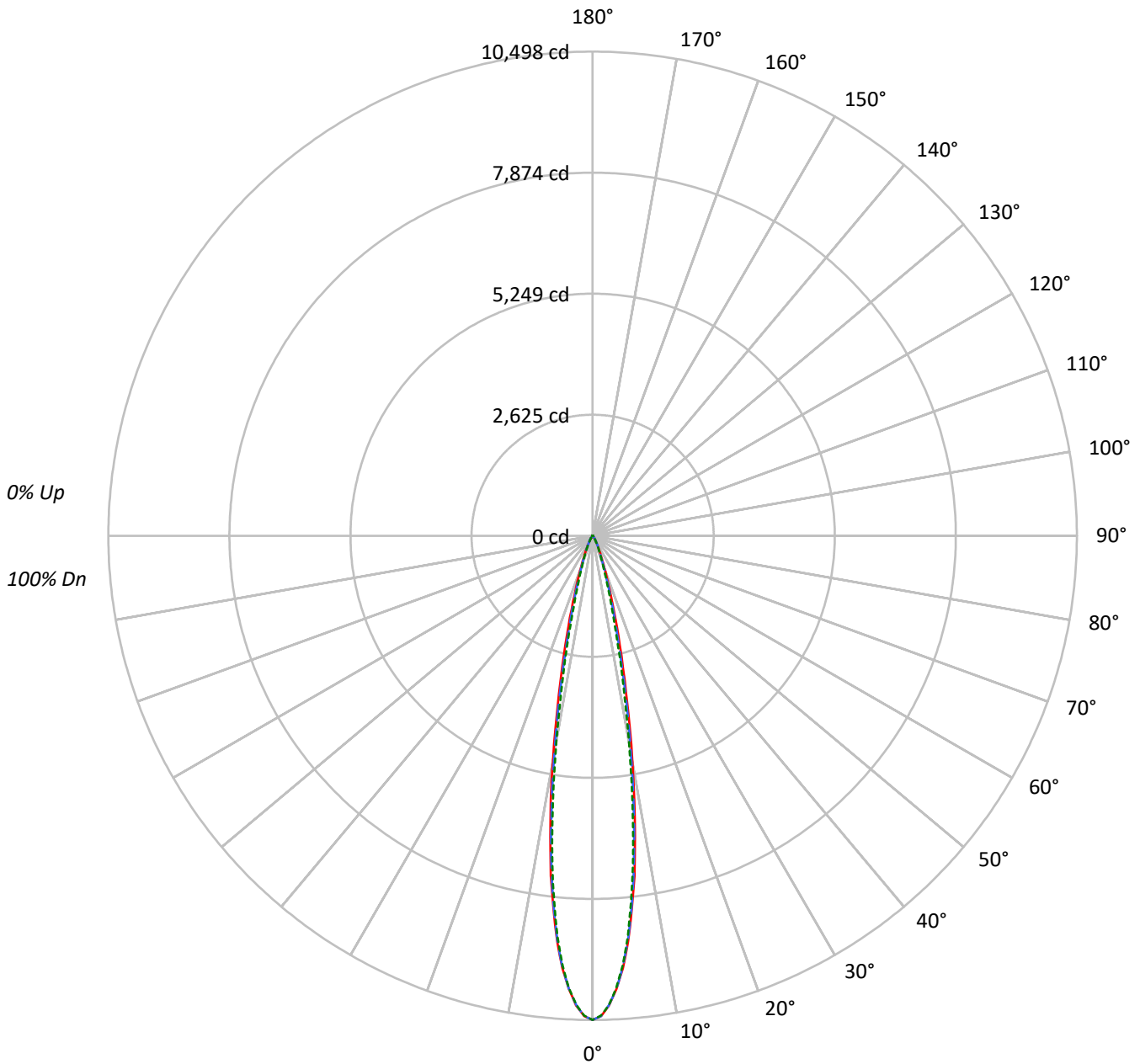
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P281238

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

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

	0°	45°	90°
0°	5179115	5179115	5179115
5°	4375848	4352473	4320381
10°	2490686	2381023	2259938
15°	1031389	913607	804814
20°	392351	343576	314595
25°	173326	166467	148013
30°	80212	88586	70527
35°	42160	49688	39510
40°	18484	21382	12366
45°	7187	5652	8233
50°	3377	3991	5680
55°	0	2494	0
60°	0	0	1480
65°	0	0	0
70°	0	1010	0
75°	0	0	0
80°	4262	0	0
85°	41889	37361	16416



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	701.9	48.2
10°-20°	536.6	36.9
20°-30°	149.2	10.3
30°-40°	48.5	3.3
40°-50°	10.7	0.7
50°-60°	3.3	0.2
60°-70°	1.9	0.1
70°-80°	1.1	0.1
80°-90°	2.3	0.2
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°	1387.7	95.3
0°-40°	1436.2	98.7
0°-60°	1450.2	99.6
0°-90°	1455.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1455.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10498	10498	10498	10498	10498	
5°	8836	8771	8788	8723	8724	714
15°	2019	1949	1789	1651	1576	589
25°	318	322	306	288	272	160
35°	70	76	82	63	66	46
45°	10	15	8	8	12	10
55°	0	4	3	2	0	3
65°	0	3	0	0	0	2
75°	0	0	0	2	0	1
85°	7	4	7	4	3	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10497.6	10497.6	10497.6	10497.6	10497.6
1°	10417.3	10378.2	10415.8	10393.7	10406.2
2°	10191.0	10142.4	10181.4	10150.5	10176.3
3°	9838.7	9801.1	9835.8	9796.7	9817.4
4°	9397.3	9342.7	9377.4	9325.0	9337.6
5°	8835.7	8770.8	8788.5	8722.9	8723.7
6°	8128.2	8083.2	8093.6	7991.1	7983.7
7°	7436.2	7330.0	7319.0	7201.8	7179.0
8°	6596.0	6499.5	6467.8	6329.9	6281.3
9°	5790.5	5670.3	5605.5	5445.6	5388.8
10°	4971.7	4850.1	4752.8	4572.2	4511.1
11°	4214.1	4104.3	3983.4	3790.3	3730.6
12°	3511.0	3424.8	3292.1	3105.6	3043.0
13°	2936.9	2837.4	2695.1	2522.0	2468.2
14°	2439.4	2332.6	2190.3	2042.2	1937.5
15°	2019.3	1949.3	1788.7	1650.8	1575.7
16°	1650.1	1590.4	1451.9	1332.5	1279.4
17°	1353.1	1305.2	1187.3	1093.7	1049.5
18°	1116.5	1056.8	964.0	902.8	868.2
19°	905.8	859.3	791.5	744.4	709.7
20°	747.3	709.0	654.4	612.4	599.2
22.5°	482.7	476.1	440.7	417.9	406.8
25°	318.4	322.1	305.8	288.2	271.9
26°	271.9	274.2	259.4	249.1	228.5
27°	232.9	233.6	233.6	214.5	194.6
28°	190.1	198.2	190.9	182.0	162.9
29°	162.9	173.2	169.5	160.7	142.2
30°	140.8	148.1	155.5	141.5	123.8
32.5°	98.8	105.4	113.5	106.1	91.4
35°	70.0	75.9	82.5	62.6	65.6
37.5°	47.9	58.2	56.0	50.9	43.5
40°	28.7	30.2	33.2	35.4	19.2
42.5°	20.6	24.3	22.1	25.1	8.8
45°	10.3	14.7	8.1	8.1	11.8
47.5°	7.4	12.5	4.4	4.4	1.5
50°	4.4	9.6	5.2	2.2	7.4
52.5°	7.4	8.8	5.9	6.6	1.5
55°	0.0	4.4	2.9	1.5	0.0
57.5°	2.9	5.2	2.9	1.5	2.9
60°	0.0	0.0	0.0	0.7	1.5
62.5°	0.0	1.5	0.0	2.2	2.9
65°	0.0	2.9	0.0	0.0	0.0
67.5°	4.4	5.2	2.9	5.9	8.8



TEST NUMBER: P281238

CATALOG NUMBER: LDA2B158035D010 EU2B15SP158035 2LBALD1WMH

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	0.0	1.5	0.0
77.5°	0.0	7.4	2.2	2.2	2.9
80°	1.5	0.0	0.0	0.7	0.0
82.5°	0.0	5.9	0.7	2.9	4.4
85°	7.4	3.7	6.6	3.7	2.9
87.5°	0.0	0.7	1.5	0.7	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







70°	0.0	0.0	0.7	0.7	0.0
72.5°	1.5	0.0	0.0	0.0	0.0



(END OF REPORT)