

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: P281128

Luminaire Tested: **LDA2B108035D010 EU2B10SP158035 2LBALD1WHH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P281128  
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: LDA2B108035D010 EU2B10SP158035 2LBALD1WHH  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in  
ADJ spun Refl w/lens Self-Flanged, WHH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1093.9 lumens  
Efficiency: N/A  
Efficacy: 109.4 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

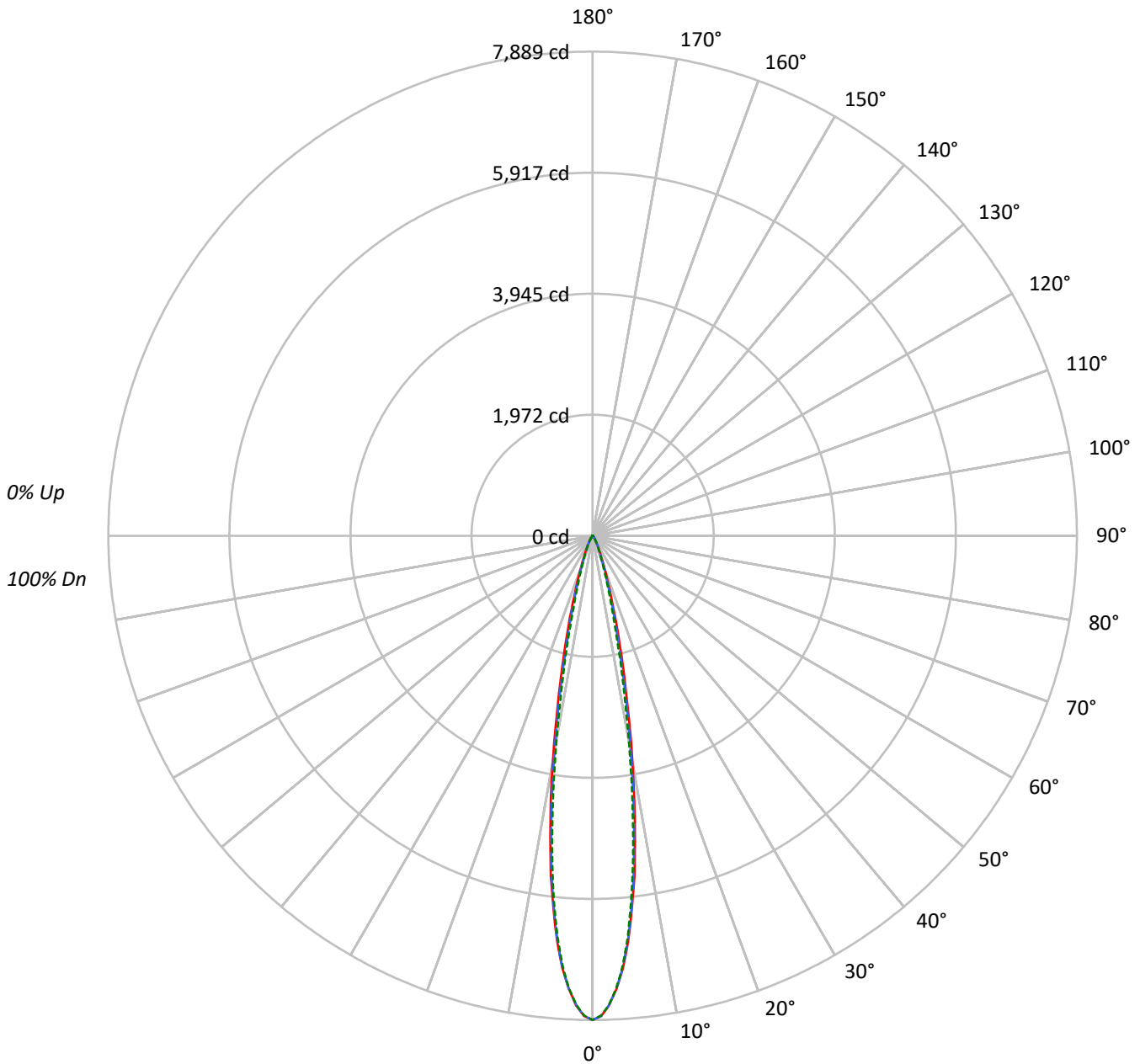
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	88	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°	3892328	3892328	3892328
5°	3288634	3271102	3246934
10°	1871834	1789424	1698448
15°	775138	686622	604849
20°	294854	258207	236419
25°	130266	125149	111268
30°	60273	66596	53038
35°	31680	37342	29693
40°	13911	16037	9274
45°	5442	4256	6210
50°	2533	2993	4221
55°	0	1892	0
60°	0	0	1085
65°	0	0	0
70°	0	865	0
75°	0	0	0
80°	3125	0	0
85°	31134	28303	12454



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	527.5	48.2
10°-20°	403.3	36.9
20°-30°	112.1	10.3
30°-40°	36.5	3.3
40°-50°	8.0	0.7
50°-60°	2.5	0.2
60°-70°	1.4	0.1
70°-80°	0.9	0.1
80°-90°	1.8	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°	1042.9	95.3
0°-40°	1079.4	98.7
0°-60°	1089.9	99.6
0°-90°	1093.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1093.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7889	7889	7889	7889	7889	
5°	6640	6592	6605	6556	6556	537
15°	1518	1465	1344	1241	1184	443
25°	239	242	230	217	204	120
35°	53	57	62	47	49	35
45°	8	11	6	6	9	8
55°	0	3	2	1	0	2
65°	0	2	0	0	0	2
75°	0	0	0	1	0	0
85°	6	3	5	3	2	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7889.4	7889.4	7889.4	7889.4	7889.4
1°	7829.0	7799.7	7827.9	7811.3	7820.7
2°	7659.0	7622.4	7651.8	7628.5	7647.9
3°	7394.2	7366.0	7392.0	7362.7	7378.2
4°	7062.5	7021.5	7047.5	7008.2	7017.6
5°	6640.4	6591.7	6605.0	6555.7	6556.2
6°	6108.7	6074.9	6082.7	6005.7	6000.1
7°	5588.6	5508.8	5500.5	5412.5	5395.3
8°	4957.2	4884.6	4860.8	4757.2	4720.7
9°	4351.8	4261.5	4212.8	4092.6	4049.9
10°	3736.4	3645.1	3571.9	3436.2	3390.3
11°	3167.1	3084.5	2993.7	2848.6	2803.7
12°	2638.7	2573.9	2474.2	2334.0	2287.0
13°	2207.2	2132.4	2025.5	1895.4	1854.9
14°	1833.3	1753.0	1646.1	1534.8	1456.1
15°	1517.6	1465.0	1344.3	1240.7	1184.2
16°	1240.1	1195.3	1091.1	1001.4	961.5
17°	1016.9	980.9	892.3	822.0	788.7
18°	839.1	794.3	724.5	678.5	652.5
19°	680.7	645.8	594.9	559.4	533.4
20°	561.6	532.8	491.8	460.3	450.3
22.5°	362.8	357.8	331.2	314.0	305.7
25°	239.3	242.0	229.9	216.6	204.4
26°	204.4	206.0	195.0	187.2	171.7
27°	175.0	175.6	175.6	161.2	146.2
28°	142.9	149.0	143.5	136.8	122.4
29°	122.4	130.2	127.4	120.7	106.9
30°	105.8	111.3	116.9	106.3	93.1
32.5°	74.2	79.2	85.3	79.8	68.7
35°	52.6	57.0	62.0	47.1	49.3
37.5°	36.0	43.8	42.1	38.2	32.7
40°	21.6	22.7	24.9	26.6	14.4
42.5°	15.5	18.3	16.6	18.8	6.6
45°	7.8	11.1	6.1	6.1	8.9
47.5°	5.5	9.4	3.3	3.3	1.1
50°	3.3	7.2	3.9	1.7	5.5
52.5°	5.5	6.6	4.4	5.0	1.1
55°	0.0	3.3	2.2	1.1	0.0
57.5°	2.2	3.9	2.2	1.1	2.2
60°	0.0	0.0	0.0	0.6	1.1
62.5°	0.0	1.1	0.0	1.7	2.2
65°	0.0	2.2	0.0	0.0	0.0
67.5°	3.3	3.9	2.2	4.4	6.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	0.0	1.1	0.0
77.5°	0.0	5.5	1.7	1.7	2.2
80°	1.1	0.0	0.0	0.6	0.0
82.5°	0.0	4.4	0.6	2.2	3.3
85°	5.5	2.8	5.0	2.8	2.2
87.5°	0.0	0.6	1.1	0.6	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	0.6	0.6	0.0
72.5°	1.1	0.0	0.0	0.0	0.0



(END OF REPORT)