

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: P281144

Luminaire Tested: **LDA2B108050D010 EU2B10SP158050 2LBALD1WHH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P281144  
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: LDA2B108050D010 EU2B10SP158050 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: 1131.2 lumens  
Efficiency: N/A  
Efficacy: 113.1 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

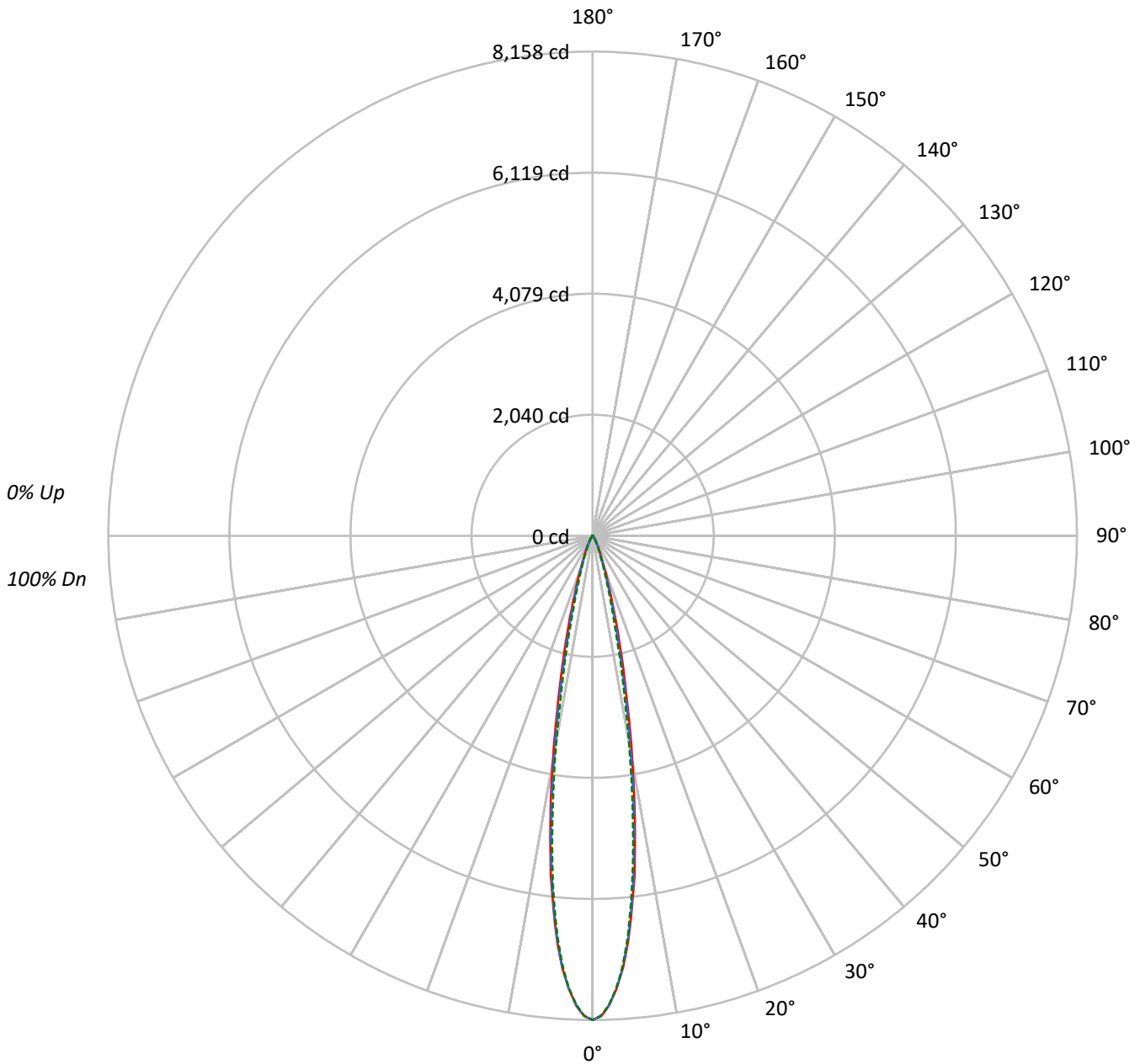
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	4025092	4025092	4025092
5°	3400857	3382681	3357721
10°	1935708	1850493	1756360
15°	801596	710015	625484
20°	304934	267028	244504
25°	134676	129395	115079
30°	62324	68875	54804
35°	32764	38667	30716
40°	14362	16616	9596
45°	5582	4396	6419
50°	2610	3070	4375
55°	0	1978	0
60°	0	0	1085
65°	0	0	0
70°	0	865	0
75°	0	0	0
80°	3125	0	0
85°	32266	29436	13020



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	545.5	48.2
10°-20°	417.0	36.9
20°-30°	116.0	10.3
30°-40°	37.7	3.3
40°-50°	8.3	0.7
50°-60°	2.5	0.2
60°-70°	1.5	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°	1078.5	95.3
0°-40°	1116.2	98.7
0°-60°	1127.0	99.6
0°-90°	1131.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1131.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8158	8158	8158	8158	8158	
5°	6867	6816	6830	6779	6780	555
15°	1569	1515	1390	1283	1225	458
25°	247	250	238	224	211	124
35°	54	59	64	49	51	36
45°	8	12	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°	8158.5	8158.5	8158.5	8158.5	8158.5
1°	8096.1	8065.8	8095.0	8077.8	8087.5
2°	7920.3	7882.5	7912.8	7888.8	7908.8
3°	7646.5	7617.3	7644.2	7613.8	7629.9
4°	7303.4	7261.0	7287.9	7247.3	7257.0
5°	6867.0	6816.5	6830.3	6779.3	6779.9
6°	6317.1	6282.2	6290.2	6210.6	6204.8
7°	5779.3	5696.8	5688.2	5597.1	5579.4
8°	5126.3	5051.3	5026.6	4919.5	4881.7
9°	4500.3	4406.9	4356.5	4232.2	4188.1
10°	3863.9	3769.4	3693.8	3553.5	3505.9
11°	3275.1	3189.8	3095.8	2945.8	2899.4
12°	2728.7	2661.7	2558.6	2413.7	2365.0
13°	2282.5	2205.2	2094.6	1960.0	1918.2
14°	1895.9	1812.8	1702.3	1587.1	1505.8
15°	1569.4	1515.0	1390.1	1283.0	1224.6
16°	1282.4	1236.0	1128.4	1035.6	994.3
17°	1051.6	1014.4	922.7	850.0	815.6
18°	867.7	821.4	749.2	701.6	674.7
19°	703.9	667.9	615.2	578.5	551.6
20°	580.8	551.0	508.6	476.0	465.7
22.5°	375.2	370.0	342.5	324.8	316.2
25°	247.4	250.3	237.7	224.0	211.4
26°	211.4	213.1	201.6	193.6	177.6
27°	181.0	181.6	181.6	166.7	151.2
28°	147.8	154.1	148.3	141.5	126.6
29°	126.6	134.6	131.7	124.9	110.5
30°	109.4	115.1	120.9	110.0	96.2
32.5°	76.8	81.9	88.2	82.5	71.0
35°	54.4	59.0	64.2	48.7	51.0
37.5°	37.2	45.2	43.5	39.5	33.8
40°	22.3	23.5	25.8	27.5	14.9
42.5°	16.0	18.9	17.2	19.5	6.9
45°	8.0	11.5	6.3	6.3	9.2
47.5°	5.7	9.7	3.4	3.4	1.1
50°	3.4	7.4	4.0	1.7	5.7
52.5°	5.7	6.9	4.6	5.2	1.1
55°	0.0	3.4	2.3	1.1	0.0
57.5°	2.3	4.0	2.3	1.1	2.3
60°	0.0	0.0	0.0	0.6	1.1
62.5°	0.0	1.1	0.0	1.7	2.3
65°	0.0	2.3	0.0	0.0	0.0
67.5°	3.4	4.0	2.3	4.6	6.9



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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	5.7	1.7	1.7	2.3
80°	1.1	0.0	0.0	0.6	0.0
82.5°	0.0	4.6	0.6	2.3	3.4
85°	5.7	2.9	5.2	2.9	2.3
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)