

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: P281665

Luminaire Tested: **LDA2B108050D010 EU2B10SP158050 2LBAPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P281665  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-10)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B108050D010 EU2B10SP158050 2LBAPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ PinHole, MB  
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): 0.3 / 0.3 / 0.29  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

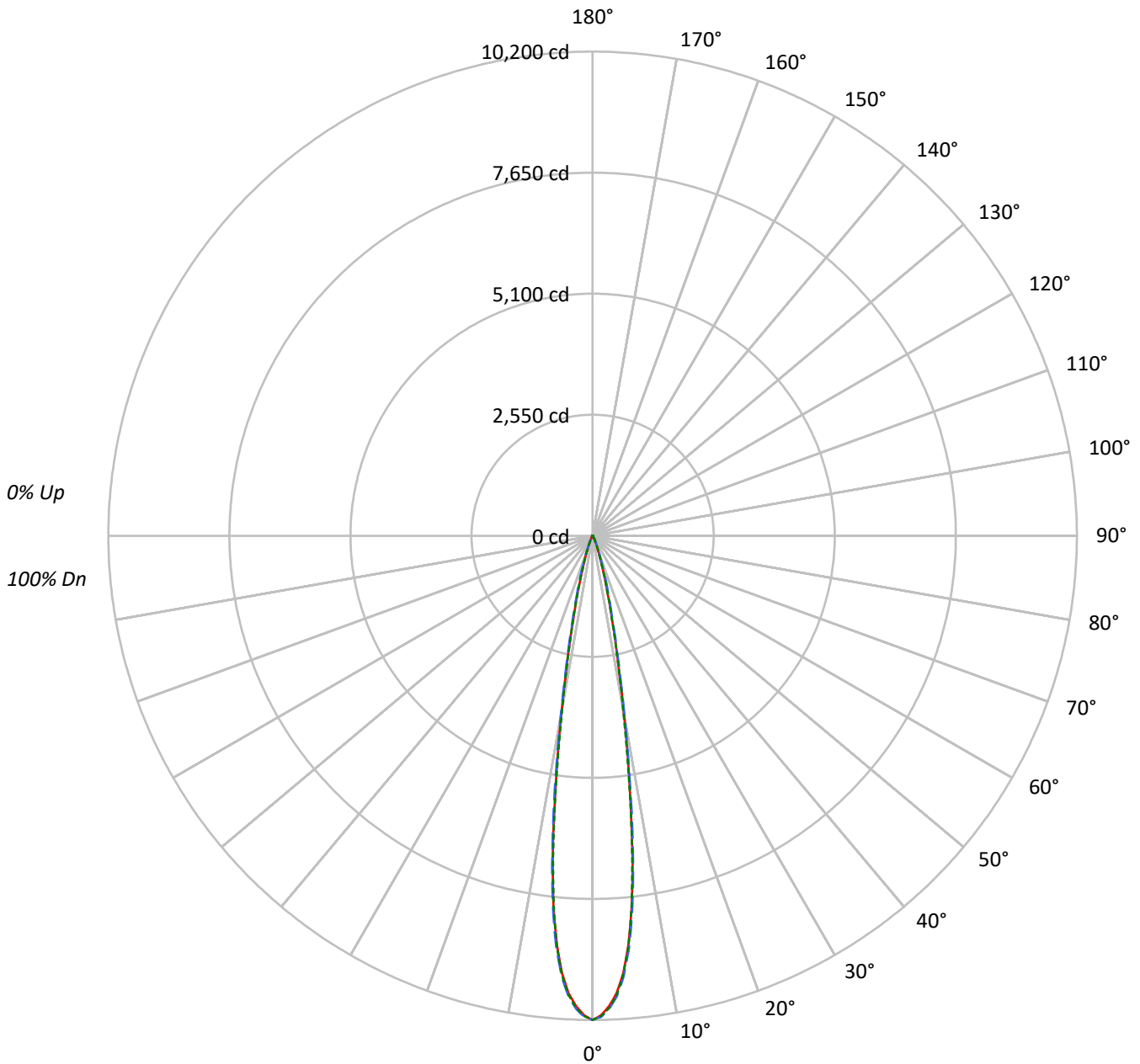
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	99	99	98	97	96																			
3	110	106	103	101	108	105	102	100	102	100	98	100	98	97	98	97	95	94																			
4	107	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	93																			
5	105	100	97	95	104	100	96	94	98	95	93	97	94	93	95	93	92	91																			
6	103	98	95	92	102	97	94	92	96	93	91	95	93	91	94	92	90	89																			
7	101	96	93	90	100	95	92	90	94	92	90	93	91	89	93	90	89	88																			
8	99	94	91	89	98	94	91	88	93	90	88	92	90	88	91	89	88	87																			
9	98	92	89	87	97	92	89	87	91	89	87	91	88	86	90	88	86	85																			
10	96	91	88	86	95	90	88	86	90	87	85	89	87	85	89	87	85	84																			

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

	0°	45°	90°
0°	5032093	5032093	5032093
5°	4284970	4329642	4293093
10°	1891773	1935007	1847537
15°	573999	658377	583039
20°	171736	229016	191949
25°	66902	65868	70332
30°	29795	26946	28370
35°	6083	5300	5300
40°	0	386	1610
45°	5303	4396	7884
50°	0	1458	4835
55°	0	0	2150
60°	0	592	2467
65°	0	0	1518
70°	0	3606	7212
75°	0	0	0
80°	0	0	0
85°	0	3396	14152



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	661.2	58.4
10°-20°	377.6	33.4
20°-30°	71.7	6.3
30°-40°	13.0	1.2
40°-50°	3.4	0.3
50°-60°	2.6	0.2
60°-70°	0.4	0.0
70°-80°	0.6	0.1
80°-90°	0.8	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°	1110.5	98.2
0°-40°	1123.5	99.3
0°-60°	1129.4	99.8
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°	10200	10200	10200	10200	10200	
5°	8652	8709	8742	8727	8669	657
15°	1124	1222	1289	1211	1142	358
25°	123	132	121	138	129	64
35°	10	13	9	11	9	14
45°	8	12	6	7	11	4
55°	0	1	0	1	2	1
65°	0	0	0	0	1	0
75°	0	0	0	0	0	0
85°	0	1	1	1	2	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10199.6	10199.6	10199.6	10199.6	10199.6
1°	10103.2	10113.9	10136.6	10159.9	10123.4
2°	9914.1	9939.9	9972.1	9993.5	9953.8
3°	9649.4	9685.3	9719.3	9723.7	9686.6
4°	9240.3	9284.4	9320.3	9315.9	9269.3
5°	8652.2	8708.9	8742.4	8727.2	8668.6
6°	7875.0	7929.9	7972.7	7929.3	7850.5
7°	6906.9	6969.9	7015.3	6940.9	6844.5
8°	5785.0	5873.2	5918.6	5814.6	5715.6
9°	4722.3	4783.4	4829.4	4716.0	4615.1
10°	3776.2	3888.4	3862.5	3774.9	3687.9
11°	2970.0	3071.5	3075.9	3016.6	2931.6
12°	2325.2	2432.4	2459.5	2414.1	2338.4
13°	1837.3	1917.4	1962.1	1915.5	1843.6
14°	1462.3	1533.5	1590.9	1530.4	1458.5
15°	1123.8	1222.2	1289.0	1210.8	1141.5
16°	893.8	975.1	1054.5	965.6	910.2
17°	686.4	758.9	840.8	760.1	714.8
18°	543.3	600.7	690.8	607.6	567.9
19°	425.5	468.9	552.8	479.7	447.5
20°	327.1	375.0	436.2	386.4	365.6
22.5°	197.9	224.4	242.0	226.9	216.2
25°	122.9	132.4	121.0	138.0	129.2
26°	107.2	114.1	111.6	122.9	112.2
27°	85.7	94.5	87.6	96.4	93.3
28°	78.2	88.9	75.0	85.7	80.7
29°	54.8	59.2	53.6	57.4	57.4
30°	52.3	53.6	47.3	51.7	49.8
32.5°	41.0	38.4	31.5	33.4	32.1
35°	10.1	12.6	8.8	10.7	8.8
37.5°	15.1	13.9	16.4	15.8	15.1
40°	0.0	0.6	0.6	0.6	2.5
42.5°	11.3	6.9	6.3	4.4	7.6
45°	7.6	12.0	6.3	6.9	11.3
47.5°	0.0	0.6	0.0	1.3	1.3
50°	0.0	1.3	1.9	2.5	6.3
52.5°	1.3	7.6	3.8	6.9	10.1
55°	0.0	0.6	0.0	0.6	2.5
57.5°	2.5	1.3	2.5	2.5	11.3
60°	0.0	1.3	0.6	0.6	2.5
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	1.3
67.5°	0.0	0.6	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.6	0.0	0.0
80°	0.0	0.6	0.0	0.0	0.0
82.5°	0.0	0.6	1.3	1.9	1.3
85°	0.0	0.6	0.6	0.6	2.5
87.5°	0.0	1.3	1.9	0.0	1.3
90°	0.0	0.0	0.0	0.0	0.0



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







70°	0.0	1.9	2.5	0.0	5.0
72.5°	0.0	3.2	0.6	0.6	0.0



(END OF REPORT)