

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: P282507

Luminaire Tested: **LDA2B108050D010 EU2B10SP158050 2LBALPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282507  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-7)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B108050D010 EU2B10SP158050 2LBALPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ Pinhole w-lens, 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): 0.32 / 0.3 / 0.32  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

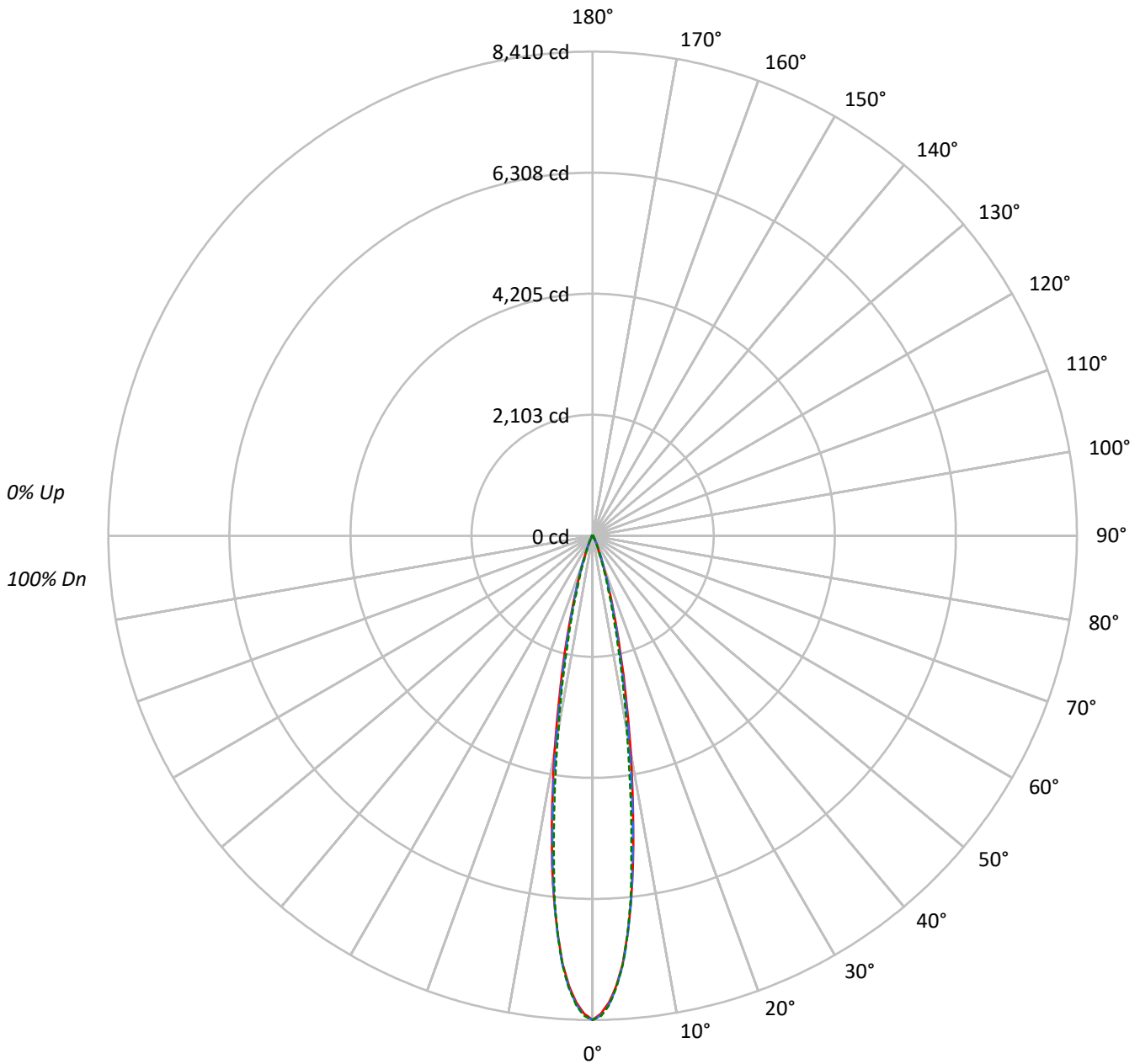
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96	98	99	98	96															
2	111	108	105	102	109	106	103	101	103	101	99	100	98	97	98	96	95	94	98	96	95	94															
3	108	104	100	97	106	102	99	97	100	97	95	98	95	94	96	94	92	91	96	94	92	91															
4	105	100	96	93	104	99	96	93	97	94	92	95	93	91	94	92	90	89	94	92	90	89															
5	102	97	93	90	101	96	93	90	95	91	89	93	90	88	92	89	88	87	92	89	88	87															
6	100	94	90	88	99	94	90	87	92	89	87	91	88	86	90	88	86	85	90	88	86	85															
7	98	92	88	85	97	91	88	85	90	87	85	89	86	84	88	86	84	83	88	86	84	83															
8	96	90	86	83	95	89	86	83	88	85	83	87	85	82	87	84	82	81	87	84	82	81															
9	94	88	84	81	93	87	84	81	86	83	81	86	83	81	85	82	81	80	85	82	81	80															
10	92	86	82	80	91	85	82	80	85	82	79	84	81	79	84	81	79	78	84	81	79	78															

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

	0°	45°	90°
0°	4148975	4148975	4148975
5°	3441962	3453155	3440080
10°	1905049	1836215	1710521
15°	771154	737597	654904
20°	258365	273958	221770
25°	98312	98639	93413
30°	44094	43353	41872
35°	21381	19032	15178
40°	14104	17840	12430
45°	3628	5861	5372
50°	998	1458	1996
55°	8860	7741	12214
60°	12729	10163	16577
65°	6070	15760	15059
70°	5626	4616	5626
75°	2478	6100	17156
80°	29264	40344	36651
85°	0	18114	22077



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	550.8	48.7
10°-20°	417.2	36.9
20°-30°	94.8	8.4
30°-40°	28.0	2.5
40°-50°	9.3	0.8
50°-60°	8.2	0.7
60°-70°	9.9	0.9
70°-80°	6.3	0.6
80°-90°	6.6	0.6
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°	1062.8	94.0
0°-40°	1090.9	96.4
0°-60°	1108.4	98.0
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°	8410	8410	8410	8410	8410	
5°	6950	7005	6973	6882	6946	557
15°	1510	1530	1444	1309	1282	439
25°	181	194	181	179	172	95
35°	36	39	32	37	25	28
45°	5	15	8	15	8	8
55°	10	15	9	14	14	4
65°	5	11	14	13	13	5
75°	1	4	3	6	9	3
85°	0	0	3	3	4	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8409.6	8409.6	8409.6	8409.6	8409.6
1°	8301.2	8334.8	8331.5	8318.0	8341.9
2°	8110.3	8151.0	8147.1	8117.4	8160.0
3°	7830.4	7866.5	7860.7	7818.2	7864.6
4°	7456.3	7497.6	7481.5	7417.6	7477.0
5°	6950.0	7004.9	6972.6	6881.7	6946.2
6°	6388.9	6435.4	6384.4	6263.8	6327.0
7°	5760.7	5789.8	5722.7	5567.9	5525.3
8°	5075.2	5113.2	5019.7	4839.1	4792.7
9°	4419.9	4432.8	4319.3	4127.1	4068.4
10°	3802.7	3793.0	3665.3	3470.5	3414.4
11°	3217.7	3204.8	3070.0	2890.0	2908.1
12°	2685.6	2710.7	2554.0	2390.9	2394.1
13°	2248.3	2250.9	2116.1	1960.7	1951.6
14°	1840.7	1864.6	1749.1	1609.8	1584.0
15°	1509.8	1530.5	1444.1	1308.6	1282.2
16°	1208.6	1234.4	1172.5	1050.0	1015.2
17°	973.2	1006.1	965.5	863.0	823.0
18°	778.5	803.6	793.9	688.2	655.3
19°	614.6	649.5	652.1	563.7	524.3
20°	492.1	523.7	521.8	453.4	422.4
22.5°	282.5	299.3	299.9	267.7	249.6
25°	180.6	194.1	181.2	179.3	171.6
26°	156.7	167.7	153.5	153.5	146.4
27°	127.1	136.7	123.2	129.0	119.3
28°	107.1	117.4	105.8	104.5	103.2
29°	89.0	98.7	83.8	90.3	86.4
30°	77.4	84.5	76.1	85.8	73.5
32.5°	60.0	65.8	51.0	64.5	48.4
35°	35.5	39.3	31.6	36.8	25.2
37.5°	36.8	38.1	34.2	38.1	35.5
40°	21.9	22.6	27.7	27.7	19.3
42.5°	20.6	20.0	12.3	19.3	15.5
45°	5.2	14.8	8.4	14.8	7.7
47.5°	3.9	5.2	5.2	10.3	10.3
50°	1.3	5.2	1.9	3.9	2.6
52.5°	0.0	12.3	2.6	9.0	7.7
55°	10.3	14.8	9.0	13.5	14.2
57.5°	1.3	10.3	5.2	11.0	7.7
60°	12.9	17.4	10.3	18.7	16.8
62.5°	1.3	11.6	13.5	10.3	9.0
65°	5.2	11.0	13.5	12.9	12.9
67.5°	6.4	11.0	8.4	8.4	11.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	1.3	4.5	3.2	5.8	9.0
77.5°	1.3	5.2	4.5	10.3	7.7
80°	10.3	11.6	14.2	18.7	12.9
82.5°	9.0	9.0	14.2	10.3	7.7
85°	0.0	0.0	3.2	3.2	3.9
87.5°	0.0	2.6	6.4	5.2	9.0
90°	0.0	0.0	0.0	0.0	0.0



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







70°	3.9	1.3	3.2	3.2	3.9
72.5°	1.3	5.8	5.2	3.2	6.4



(END OF REPORT)