

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: P282670

Luminaire Tested: **LDA2B108035D010 EU2B10NFL258035 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282670  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B108035D010 EU2B10NFL258035 2LBALPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 927.4 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

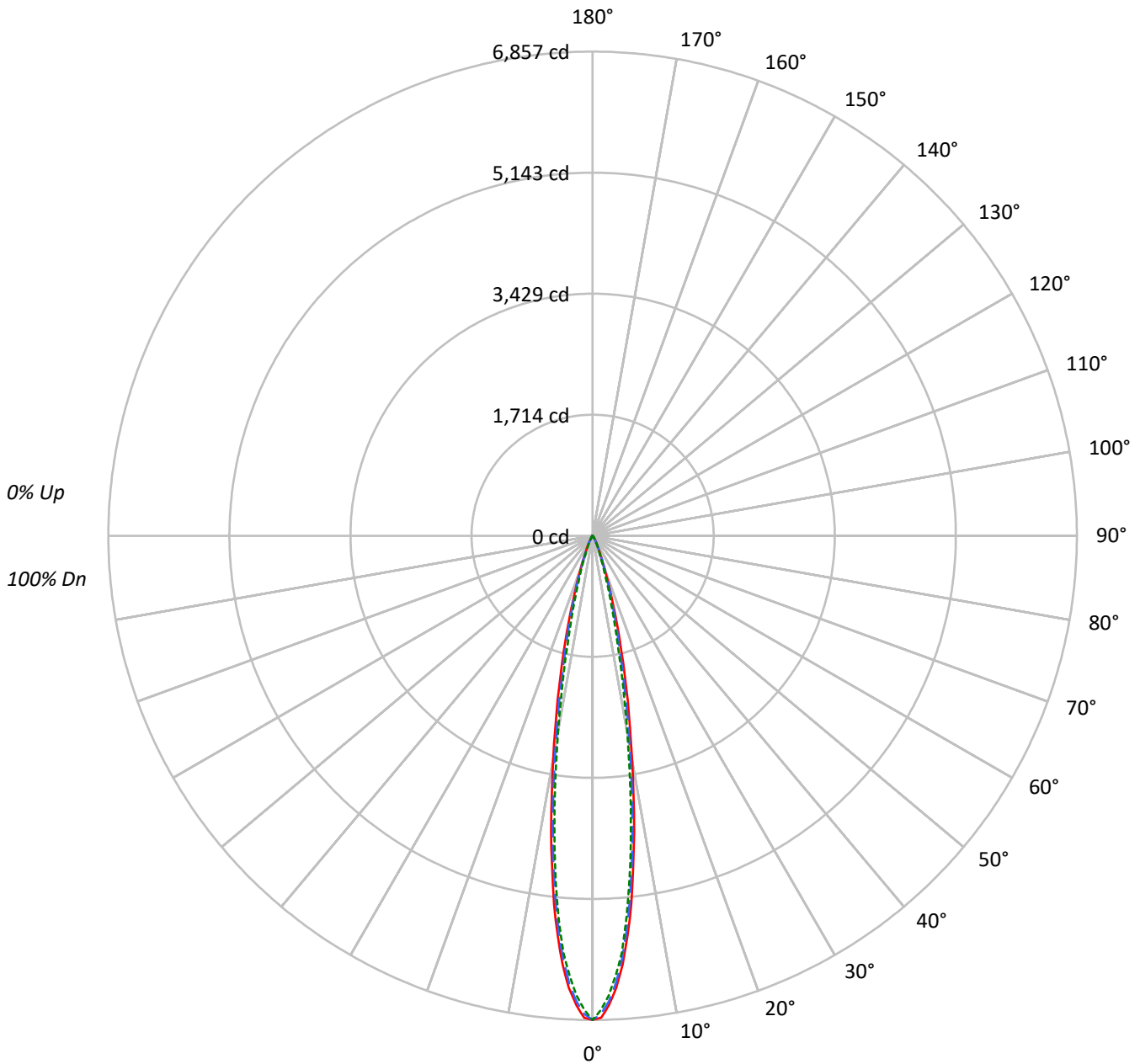
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	3383080	3383080	3383080
5°	2815079	2763475	2707660
10°	1612431	1513088	1412142
15°	717166	636925	533750
20°	260150	244609	193787
25°	99891	93304	80348
30°	43068	40049	35548
35°	20357	20357	16864
40°	10240	10562	8501
45°	5931	5512	5163
50°	4068	3684	3684
55°	3183	2236	2752
60°	2565	1579	2072
65°	1868	1284	1868
70°	1587	721	1587
75°	953	953	953
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	446.0	48.1
10°-20°	360.9	38.9
20°-30°	87.0	9.4
30°-40°	22.2	2.4
40°-50°	6.6	0.7
50°-60°	2.8	0.3
60°-70°	1.4	0.1
70°-80°	0.4	0.0
80°-90°	0.0	0.0
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°	893.9	96.4
0°-40°	916.1	98.8
0°-60°	925.5	99.8
0°-90°	927.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	927.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6857	6857	6857	6857	6857	
5°	5684	5632	5580	5531	5467	460
15°	1404	1371	1247	1123	1045	400
25°	184	185	171	156	148	95
35°	34	34	34	31	28	23
45°	8	8	8	7	7	7
55°	4	3	3	3	3	3
65°	2	2	1	1	2	2
75°	0	0	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6857.2	6857.2	6857.2	6857.2	6857.2
1°	6826.5	6778.9	6773.1	6802.7	6715.5
2°	6652.0	6618.1	6598.6	6616.0	6517.1
3°	6412.4	6379.6	6344.2	6344.7	6234.2
4°	6086.1	6060.2	6000.4	5982.5	5918.5
5°	5684.2	5631.8	5580.0	5531.3	5467.3
6°	5239.9	5172.2	5098.2	5025.7	4960.2
7°	4717.4	4672.5	4574.6	4475.7	4420.2
8°	4226.1	4153.7	4039.4	3915.7	3868.6
9°	3697.8	3646.0	3514.8	3370.9	3323.9
10°	3218.6	3164.7	3020.3	2860.1	2818.8
11°	2769.1	2718.3	2568.1	2400.0	2356.1
12°	2388.9	2316.9	2144.5	1998.6	1955.7
13°	2010.2	1961.0	1797.6	1653.2	1570.2
14°	1688.1	1647.4	1499.3	1372.4	1284.6
15°	1404.1	1370.8	1247.0	1123.3	1045.0
16°	1151.9	1131.2	1033.4	913.9	849.9
17°	934.5	915.5	853.0	743.0	689.1
18°	754.7	752.0	700.2	605.0	556.9
19°	620.9	619.8	572.2	492.4	452.7
20°	495.5	502.4	465.9	396.1	369.1
21°	404.0	407.8	378.7	325.8	301.4
22°	329.0	331.6	312.6	269.2	256.0
23°	269.7	271.3	255.4	223.2	211.5
24°	222.1	223.2	208.9	186.2	176.1
25°	183.5	184.6	171.4	155.5	147.6
26°	152.3	153.4	141.7	130.6	122.7
27°	126.4	128.5	116.9	110.0	101.5
28°	107.9	108.4	97.8	93.6	85.7
29°	88.3	91.5	82.5	78.8	73.0
30°	75.6	77.2	70.3	67.7	62.4
32.5°	50.2	51.3	48.1	46.0	41.8
35°	33.8	34.4	33.8	30.7	28.0
37.5°	23.3	23.3	23.8	20.1	19.0
40°	15.9	15.9	16.4	13.8	13.2
42.5°	11.6	11.6	11.1	9.5	9.5
45°	8.5	8.5	7.9	7.4	7.4
47.5°	6.9	6.3	5.8	5.8	5.8
50°	5.3	5.3	4.8	4.2	4.8
52.5°	4.2	4.2	3.7	3.7	3.7
55°	3.7	3.2	2.6	2.6	3.2
57.5°	2.6	2.6	2.1	2.1	2.6
60°	2.6	2.1	1.6	2.1	2.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1.6	1.1	1.1	1.1	1.1
70°	1.1	1.1	0.5	0.5	1.1
72.5°	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.0	0.0	0.5
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	2.1	1.6	1.6	1.6	1.6
65°	1.6	1.6	1.1	1.1	1.6



(END OF REPORT)