

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: P282663

Luminaire Tested: **LDA2B108027D010 EU2B10NFL258027 2LBALPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282663  
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: LDA2B108027D010 EU2B10NFL258027 2LBALPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 885.0 lumens  
Efficiency: N/A  
Efficacy: 88.5 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

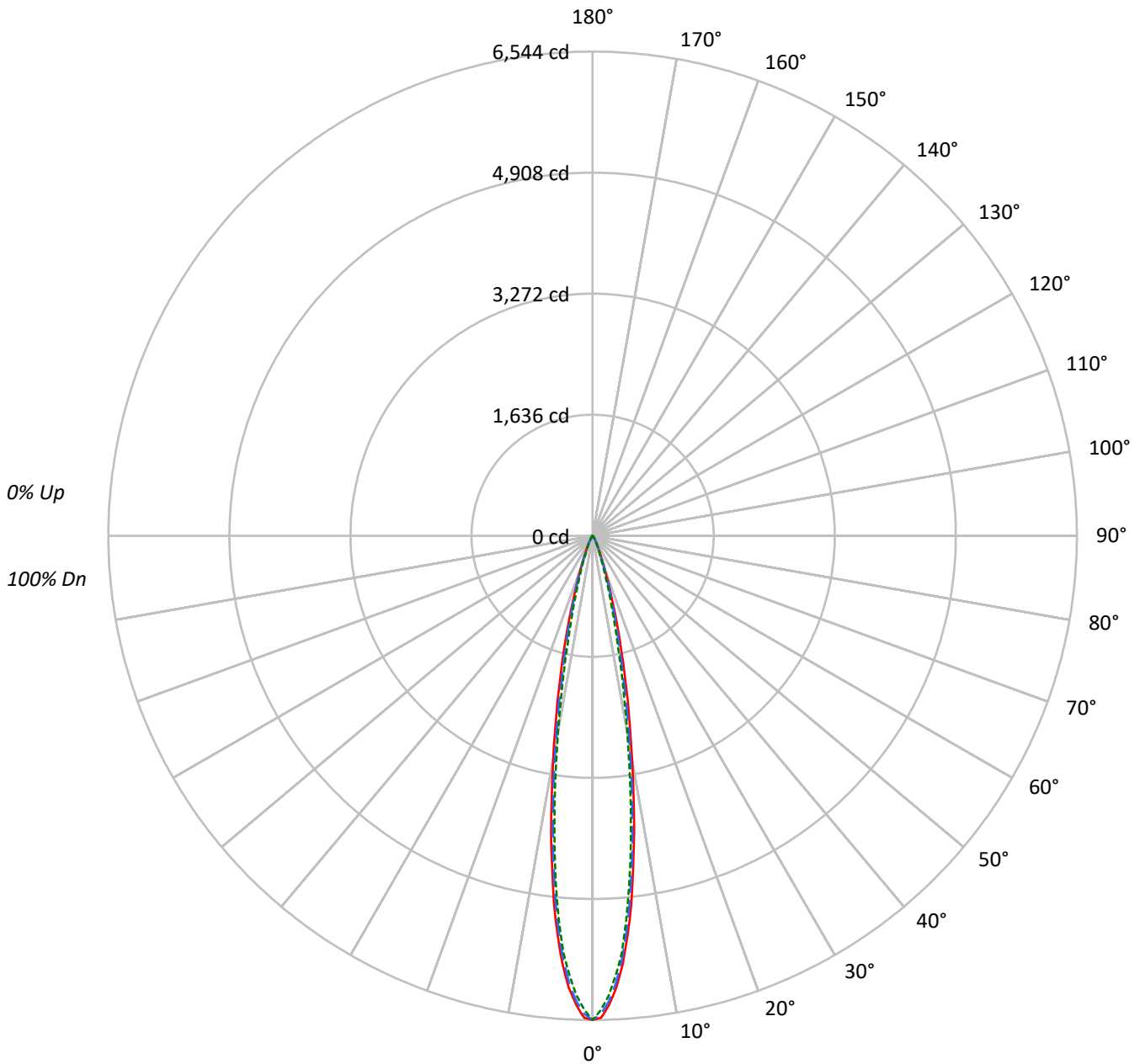
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3228560	3228560	3228560
5°	2686513	2637286	2584047
10°	1538838	1444004	1347667
15°	684426	607862	509387
20°	248284	233426	184966
25°	95318	89004	76647
30°	41131	38226	33953
35°	19454	19454	16081
40°	9725	10047	8115
45°	5652	5303	4954
50°	3838	3454	3454
55°	3011	2150	2580
60°	2467	1480	1973
65°	1751	1167	1751
70°	1442	721	1442
75°	953	953	953
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	425.6	48.1
10°-20°	344.4	38.9
20°-30°	83.1	9.4
30°-40°	21.2	2.4
40°-50°	6.3	0.7
50°-60°	2.7	0.3
60°-70°	1.3	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°	853.1	96.4
0°-40°	874.3	98.8
0°-60°	883.3	99.8
0°-90°	885.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	885.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6544	6544	6544	6544	6544	
5°	5425	5375	5325	5279	5218	439
15°	1340	1308	1190	1072	997	382
25°	175	176	164	148	141	90
35°	32	33	32	29	27	22
45°	8	8	8	7	7	7
55°	4	3	2	2	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°	6544.0	6544.0	6544.0	6544.0	6544.0
1°	6514.8	6469.3	6463.8	6492.1	6408.8
2°	6348.2	6315.9	6297.2	6313.9	6219.5
3°	6119.6	6088.3	6054.5	6055.0	5949.5
4°	5808.2	5783.4	5726.4	5709.3	5648.2
5°	5424.6	5374.6	5325.2	5278.7	5217.7
6°	5000.6	4936.0	4865.4	4796.2	4733.7
7°	4502.0	4459.1	4365.7	4271.3	4218.3
8°	4033.1	3964.0	3855.0	3736.9	3691.9
9°	3528.9	3479.5	3354.3	3217.0	3172.1
10°	3071.7	3020.2	2882.4	2729.5	2690.1
11°	2642.6	2594.2	2450.9	2290.4	2248.5
12°	2279.8	2211.1	2046.6	1907.3	1866.4
13°	1918.4	1871.5	1715.5	1577.7	1498.5
14°	1611.0	1572.2	1430.8	1309.7	1225.9
15°	1340.0	1308.2	1190.1	1072.0	997.3
16°	1099.3	1079.6	986.2	872.1	811.1
17°	891.8	873.6	814.1	709.1	657.6
18°	720.2	717.7	668.2	577.4	531.5
19°	592.5	591.5	546.1	469.9	432.0
20°	472.9	479.5	444.6	378.0	352.3
21°	385.6	389.1	361.4	310.9	287.7
22°	313.9	316.5	298.3	256.9	244.3
23°	257.4	258.9	243.8	213.0	201.9
24°	212.0	213.0	199.4	177.7	168.1
25°	175.1	176.1	163.5	148.4	140.8
26°	145.4	146.4	135.3	124.7	117.1
27°	120.6	122.6	111.5	105.0	96.9
28°	103.0	103.5	93.4	89.3	81.8
29°	84.3	87.3	78.7	75.2	69.6
30°	72.2	73.7	67.1	64.6	59.6
32.5°	47.9	49.0	45.9	43.9	39.9
35°	32.3	32.8	32.3	29.3	26.7
37.5°	22.2	22.2	22.7	19.2	18.2
40°	15.1	15.1	15.6	13.1	12.6
42.5°	11.1	11.1	10.6	9.1	9.1
45°	8.1	8.1	7.6	7.1	7.1
47.5°	6.6	6.1	5.6	5.6	5.6
50°	5.0	5.0	4.5	4.0	4.5
52.5°	4.0	4.0	3.5	3.5	3.5
55°	3.5	3.0	2.5	2.5	3.0
57.5°	2.5	2.5	2.0	2.0	2.5
60°	2.5	2.0	1.5	2.0	2.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1.5	1.0	1.0	1.0	1.0
70°	1.0	1.0	0.5	0.5	1.0
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°	2.0	1.5	1.5	1.5	1.5
65°	1.5	1.5	1.0	1.0	1.5



(END OF REPORT)