

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: P282134

Luminaire Tested: **LDA2B058040D010 EU2B05NFL258040 2LBAPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282134  
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: LDA2B058040D010 EU2B05NFL258040 2LBAPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MW  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 768.6 lumens  
Efficiency: N/A  
Efficacy: 109.8 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

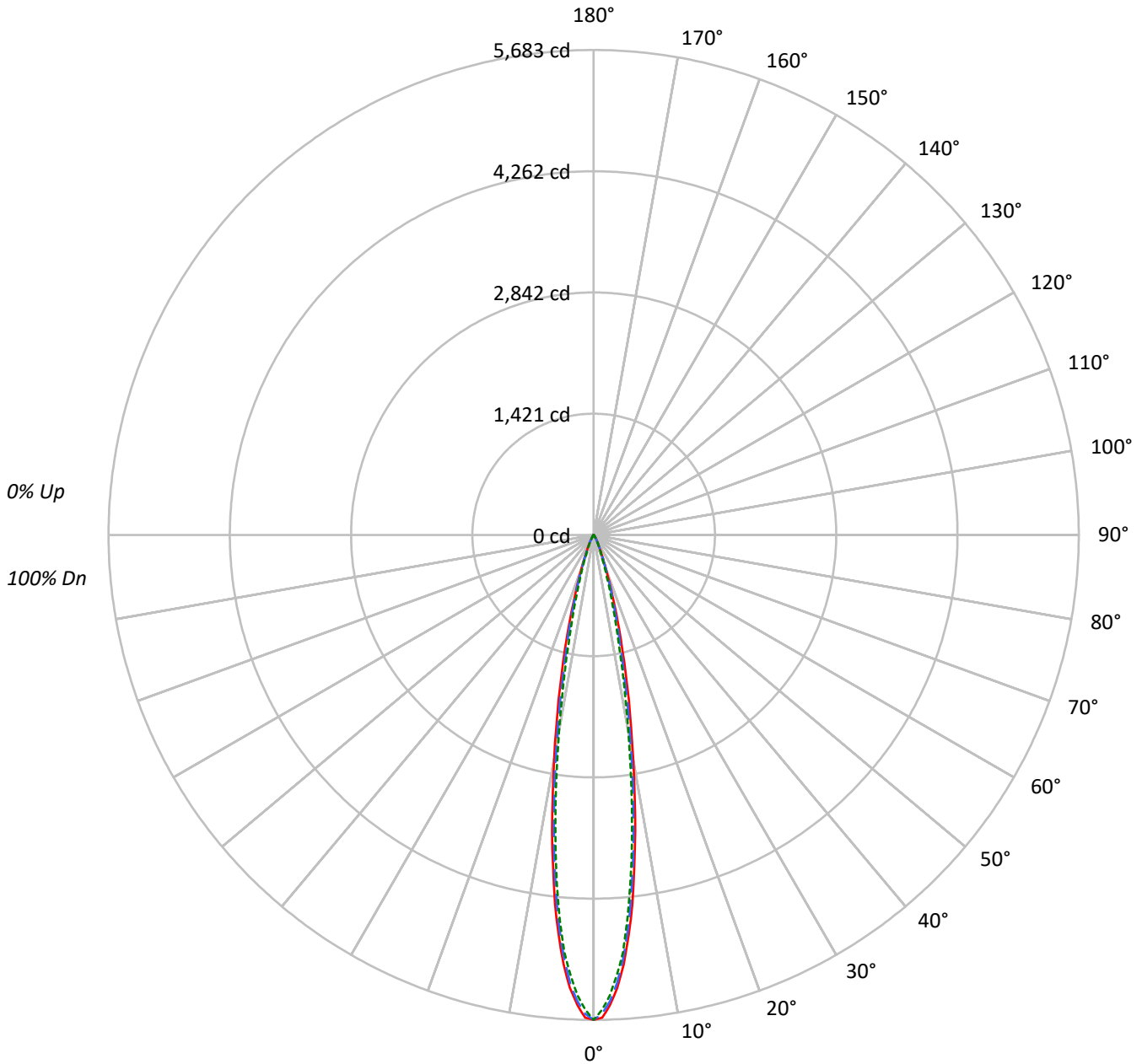
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2803972	2803972	2803972
5°	2333205	2290415	2244159
10°	1336445	1254085	1170422
15°	594429	527927	442374
20°	215628	202765	160658
25°	82798	77300	66576
30°	35719	33213	29453
35°	16924	16924	13973
40°	8437	8759	7084
45°	4884	4605	4256
50°	3377	2993	2993
55°	2666	1892	2236
60°	2171	1283	1776
65°	1518	1051	1518
70°	1298	577	1298
75°	762	762	762
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	369.6	48.1
10°-20°	299.1	38.9
20°-30°	72.1	9.4
30°-40°	18.4	2.4
40°-50°	5.5	0.7
50°-60°	2.4	0.3
60°-70°	1.1	0.1
70°-80°	0.3	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°	740.9	96.4
0°-40°	759.3	98.8
0°-60°	767.1	99.8
0°-90°	768.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	768.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5683	5683	5683	5683	5683	
5°	4711	4668	4625	4584	4531	381
15°	1164	1136	1034	931	866	332
25°	152	153	142	129	122	79
35°	28	28	28	25	23	19
45°	7	7	7	6	6	6
55°	3	3	2	2	3	3
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5683.4	5683.4	5683.4	5683.4	5683.4
1°	5657.9	5618.5	5613.7	5638.2	5565.9
2°	5513.3	5485.2	5469.0	5483.5	5401.5
3°	5314.7	5287.6	5258.2	5258.6	5167.0
4°	5044.3	5022.8	4973.3	4958.4	4905.3
5°	4711.2	4667.8	4624.8	4584.5	4531.4
6°	4343.0	4286.9	4225.5	4165.4	4111.1
7°	3909.9	3872.6	3791.5	3709.6	3663.6
8°	3502.7	3442.6	3348.0	3245.4	3206.4
9°	3064.8	3021.8	2913.1	2793.9	2754.9
10°	2667.7	2623.0	2503.3	2370.5	2336.3
11°	2295.1	2253.0	2128.5	1989.1	1952.8
12°	1979.9	1920.3	1777.4	1656.4	1620.9
13°	1666.1	1625.3	1489.9	1370.2	1301.4
14°	1399.1	1365.4	1242.7	1137.5	1064.7
15°	1163.8	1136.1	1033.6	931.0	866.1
16°	954.7	937.6	856.5	757.4	704.4
17°	774.5	758.7	707.0	615.9	571.1
18°	625.5	623.3	580.3	501.4	461.6
19°	514.6	513.7	474.3	408.1	375.2
20°	410.7	416.4	386.2	328.3	306.0
21°	334.9	338.0	313.8	270.0	249.8
22°	272.6	274.8	259.1	223.1	212.2
23°	223.5	224.9	211.7	185.0	175.3
24°	184.1	185.0	173.1	154.3	146.0
25°	152.1	153.0	142.0	128.9	122.3
26°	126.2	127.1	117.5	108.3	101.7
27°	104.8	106.5	96.9	91.2	84.2
28°	89.4	89.9	81.1	77.6	71.0
29°	73.2	75.8	68.4	65.3	60.5
30°	62.7	64.0	58.3	56.1	51.7
32.5°	41.6	42.5	39.9	38.1	34.6
35°	28.1	28.5	28.1	25.4	23.2
37.5°	19.3	19.3	19.7	16.7	15.8
40°	13.1	13.1	13.6	11.4	11.0
42.5°	9.6	9.6	9.2	7.9	7.9
45°	7.0	7.0	6.6	6.1	6.1
47.5°	5.7	5.3	4.8	4.8	4.8
50°	4.4	4.4	3.9	3.5	3.9
52.5°	3.5	3.5	3.1	3.1	3.1
55°	3.1	2.6	2.2	2.2	2.6
57.5°	2.2	2.2	1.8	1.8	2.2
60°	2.2	1.8	1.3	1.8	1.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1.3	0.9	0.9	0.9	0.9
70°	0.9	0.9	0.4	0.4	0.9
72.5°	0.4	0.4	0.4	0.4	0.4
75°	0.4	0.4	0.4	0.4	0.4
77.5°	0.4	0.4	0.0	0.0	0.4
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°	1.8	1.3	1.3	1.3	1.3
65°	1.3	1.3	0.9	0.9	1.3



(END OF REPORT)