

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: P282128

Luminaire Tested: **LDA2B058035D010 EU2B05NFL258035 2LBAPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282128  
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: LDA2B058035D010 EU2B05NFL258035 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: 738.4 lumens  
Efficiency: N/A  
Efficacy: 105.5 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

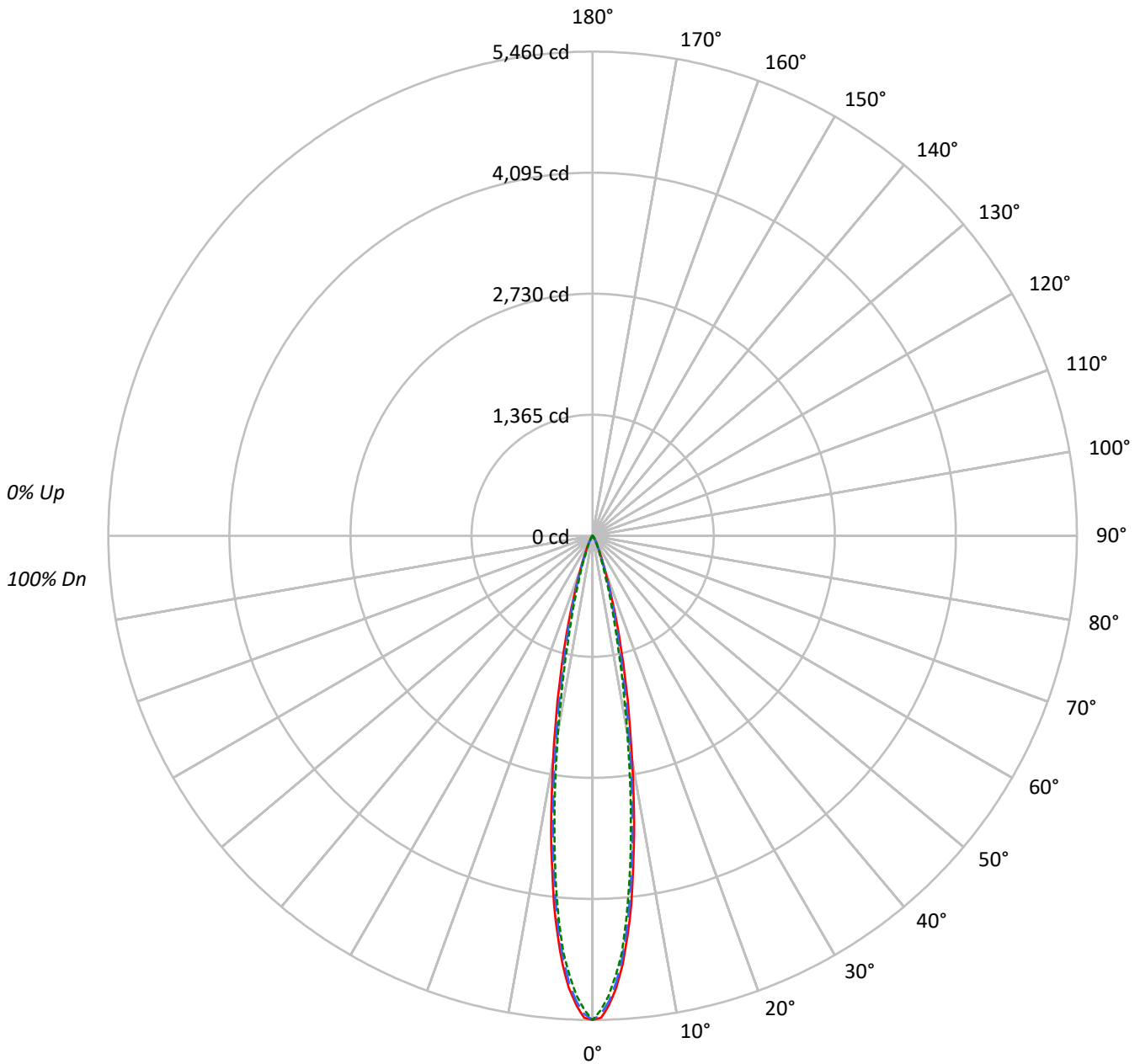
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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																			
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97																			
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95																			
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92																			
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90																			
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88																			
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86																			
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84																			
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83																			
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81																			
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79																			

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

	0°	45°	90°
0°	2693805	2693805	2693805
5°	2241485	2200429	2156005
10°	1283893	1204789	1124433
15°	571036	507190	425008
20°	207175	194784	154305
25°	79532	74251	63963
30°	34295	31902	28313
35°	16262	16262	13431
40°	8115	8437	6762
45°	4675	4396	4117
50°	3224	2917	2917
55°	2494	1806	2150
60°	2072	1283	1677
65°	1518	934	1518
70°	1154	577	1154
75°	762	762	762
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	355.1	48.1
10°-20°	287.4	38.9
20°-30°	69.3	9.4
30°-40°	17.7	2.4
40°-50°	5.3	0.7
50°-60°	2.2	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°	711.8	96.4
0°-40°	729.5	98.8
0°-60°	737.0	99.8
0°-90°	738.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	738.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5460	5460	5460	5460	5460	
5°	4526	4484	4443	4404	4353	366
15°	1118	1092	993	894	832	319
25°	146	147	136	124	118	75
35°	27	27	27	24	22	19
45°	7	7	6	6	6	6
55°	3	2	2	2	2	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°	5460.1	5460.1	5460.1	5460.1	5460.1
1°	5435.6	5397.7	5393.1	5416.7	5347.2
2°	5296.7	5269.7	5254.1	5268.0	5189.3
3°	5105.9	5079.8	5051.6	5052.0	4964.0
4°	4846.1	4825.4	4777.9	4763.5	4712.6
5°	4526.0	4484.3	4443.1	4404.3	4353.4
6°	4172.3	4118.4	4059.5	4001.8	3949.5
7°	3756.3	3720.5	3642.6	3563.8	3519.6
8°	3365.1	3307.4	3216.4	3117.9	3080.4
9°	2944.4	2903.1	2798.7	2684.1	2646.6
10°	2562.8	2519.9	2404.9	2277.3	2244.5
11°	2204.9	2164.5	2044.9	1911.0	1876.0
12°	1902.1	1844.9	1707.6	1591.4	1557.2
13°	1600.6	1561.5	1431.3	1316.4	1250.3
14°	1344.2	1311.7	1193.8	1092.8	1022.9
15°	1118.0	1091.5	993.0	894.4	832.1
16°	917.2	900.7	822.8	727.7	676.7
17°	744.1	728.9	679.2	591.7	548.7
18°	600.9	598.8	557.5	481.7	443.4
19°	494.4	493.5	455.6	392.0	360.5
20°	394.6	400.0	371.0	315.4	293.9
21°	321.7	324.7	301.5	259.4	240.0
22°	261.9	264.0	248.9	214.3	203.8
23°	214.8	216.0	203.4	177.7	168.4
24°	176.9	177.7	166.3	148.2	140.2
25°	146.1	147.0	136.4	123.8	117.5
26°	121.3	122.1	112.9	104.0	97.7
27°	100.6	102.3	93.1	87.6	80.9
28°	85.9	86.3	77.9	74.5	68.2
29°	70.3	72.9	65.7	62.7	58.1
30°	60.2	61.5	56.0	53.9	49.7
32.5°	40.0	40.8	38.3	36.6	33.3
35°	27.0	27.4	27.0	24.4	22.3
37.5°	18.5	18.5	18.9	16.0	15.2
40°	12.6	12.6	13.1	10.9	10.5
42.5°	9.3	9.3	8.8	7.6	7.6
45°	6.7	6.7	6.3	5.9	5.9
47.5°	5.5	5.1	4.6	4.6	4.6
50°	4.2	4.2	3.8	3.4	3.8
52.5°	3.4	3.4	2.9	2.9	2.9
55°	2.9	2.5	2.1	2.1	2.5
57.5°	2.1	2.1	1.7	1.7	2.1
60°	2.1	1.7	1.3	1.7	1.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1.3	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.4	0.4	0.8
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°	1.7	1.3	1.3	1.3	1.3
65°	1.3	1.3	0.8	0.8	1.3



(END OF REPORT)