

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: P282625

Luminaire Tested: **LDA2B058030D010 EU2B05NFL258030 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282625  
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: LDA2B058030D010 EU2B05NFL258030 2LBALPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 500 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: 675.2 lumens  
Efficiency: N/A  
Efficacy: 96.5 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

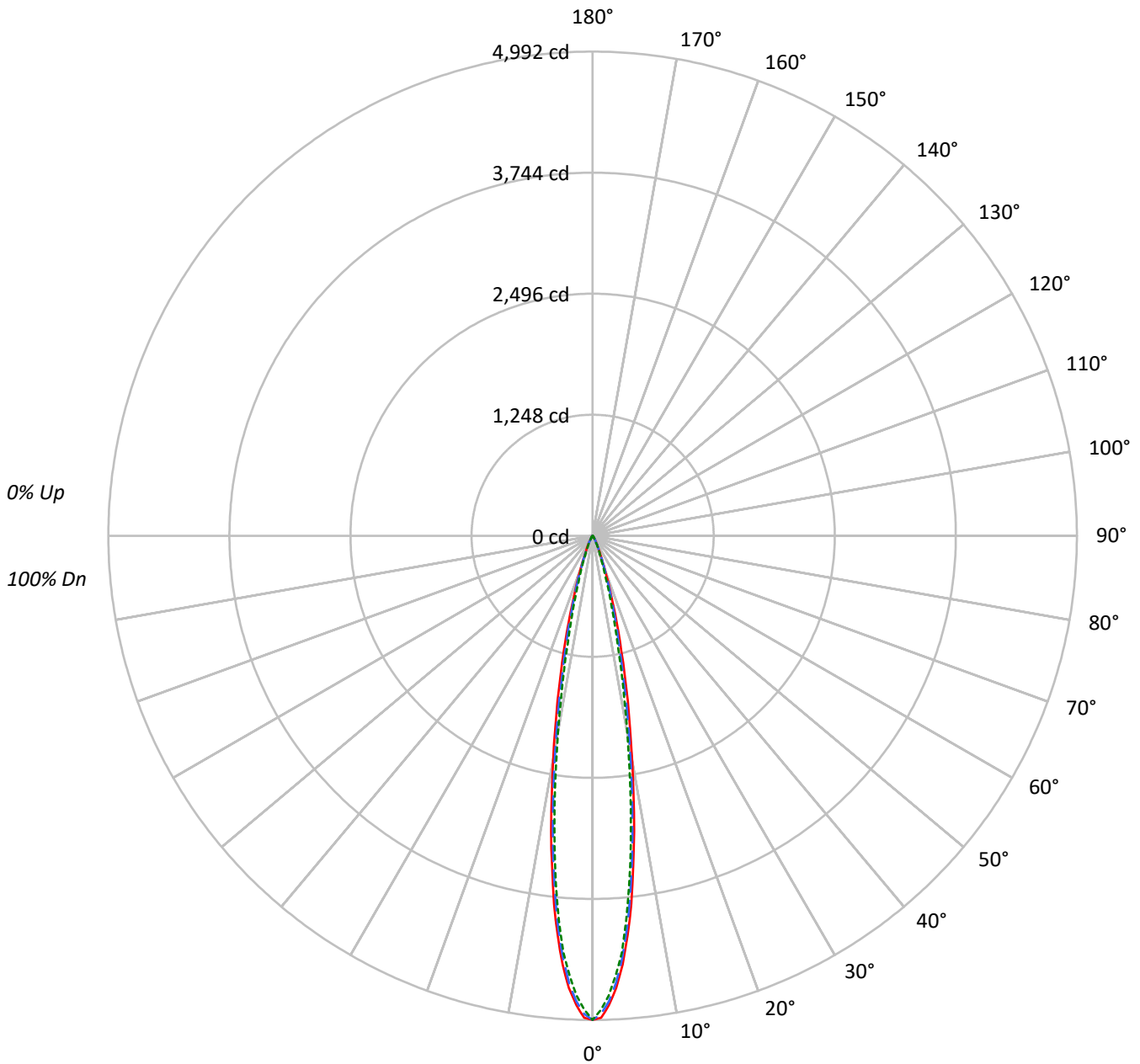
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				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	84	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°	2462862	2462862	2462862
5°	2049379	2011790	1971180
10°	1173879	1101539	1028046
15°	522105	463673	388591
20°	189429	178088	141074
25°	72727	67882	58465
30°	31390	29168	25864
35°	14816	14816	12287
40°	7471	7664	6183
45°	4326	4047	3768
50°	2993	2686	2686
55°	2322	1634	1978
60°	1875	1184	1480
65°	1401	934	1401
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°	324.7	48.1
10°-20°	262.7	38.9
20°-30°	63.4	9.4
30°-40°	16.1	2.4
40°-50°	4.8	0.7
50°-60°	2.0	0.3
60°-70°	1.0	0.2
70°-80°	0.3	0.1
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°	650.8	96.4
0°-40°	666.9	98.8
0°-60°	673.8	99.8
0°-90°	675.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	675.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4992	4992	4992	4992	4992	
5°	4138	4100	4062	4027	3980	335
15°	1022	998	908	818	761	291
25°	134	134	125	113	107	69
35°	25	25	25	22	20	17
45°	6	6	6	5	5	5
55°	3	2	2	2	2	2
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°	4992.0	4992.0	4992.0	4992.0	4992.0
1°	4969.7	4935.0	4930.8	4952.3	4888.8
2°	4842.6	4818.0	4803.7	4816.4	4744.4
3°	4668.2	4644.3	4618.5	4618.9	4538.5
4°	4430.7	4411.8	4368.3	4355.2	4308.6
5°	4138.1	4099.9	4062.2	4026.8	3980.2
6°	3814.6	3765.4	3711.5	3658.7	3611.0
7°	3434.3	3401.5	3330.3	3258.3	3217.9
8°	3076.6	3023.8	2940.7	2850.6	2816.3
9°	2692.0	2654.2	2558.8	2454.0	2419.8
10°	2343.2	2303.9	2198.8	2082.1	2052.1
11°	2015.9	1978.9	1869.6	1747.2	1715.2
12°	1739.1	1686.7	1561.2	1454.9	1423.8
13°	1463.4	1427.6	1308.6	1203.5	1143.1
14°	1228.9	1199.3	1091.5	999.1	935.2
15°	1022.2	997.9	907.8	817.8	760.8
16°	838.5	823.5	752.3	665.3	618.7
17°	680.3	666.4	621.0	540.9	501.7
18°	549.4	547.5	509.7	440.4	405.4
19°	452.0	451.2	416.6	358.4	329.6
20°	360.8	365.8	339.2	288.4	268.7
21°	294.1	296.8	275.7	237.2	219.5
22°	239.5	241.4	227.5	196.0	186.3
23°	196.4	197.5	186.0	162.5	154.0
24°	161.7	162.5	152.1	135.5	128.2
25°	133.6	134.4	124.7	113.2	107.4
26°	110.9	111.7	103.2	95.1	89.3
27°	92.0	93.6	85.1	80.1	73.9
28°	78.5	78.9	71.2	68.1	62.4
29°	64.3	66.6	60.1	57.4	53.1
30°	55.1	56.2	51.2	49.3	45.4
32.5°	36.6	37.3	35.0	33.5	30.4
35°	24.6	25.0	24.6	22.3	20.4
37.5°	16.9	16.9	17.3	14.6	13.9
40°	11.6	11.6	11.9	10.0	9.6
42.5°	8.5	8.5	8.1	6.9	6.9
45°	6.2	6.2	5.8	5.4	5.4
47.5°	5.0	4.6	4.2	4.2	4.2
50°	3.9	3.9	3.5	3.1	3.5
52.5°	3.1	3.1	2.7	2.7	2.7
55°	2.7	2.3	1.9	1.9	2.3
57.5°	1.9	1.9	1.5	1.5	1.9
60°	1.9	1.5	1.2	1.5	1.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1.2	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°	1.5	1.2	1.2	1.2	1.2
65°	1.2	1.2	0.8	0.8	1.2



(END OF REPORT)