

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: P283471

Luminaire Tested: **LDA2B058030D010 EU2B05FL408030 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283471  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B058030D010 EU2B05FL408030 2LBALPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 647.0 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

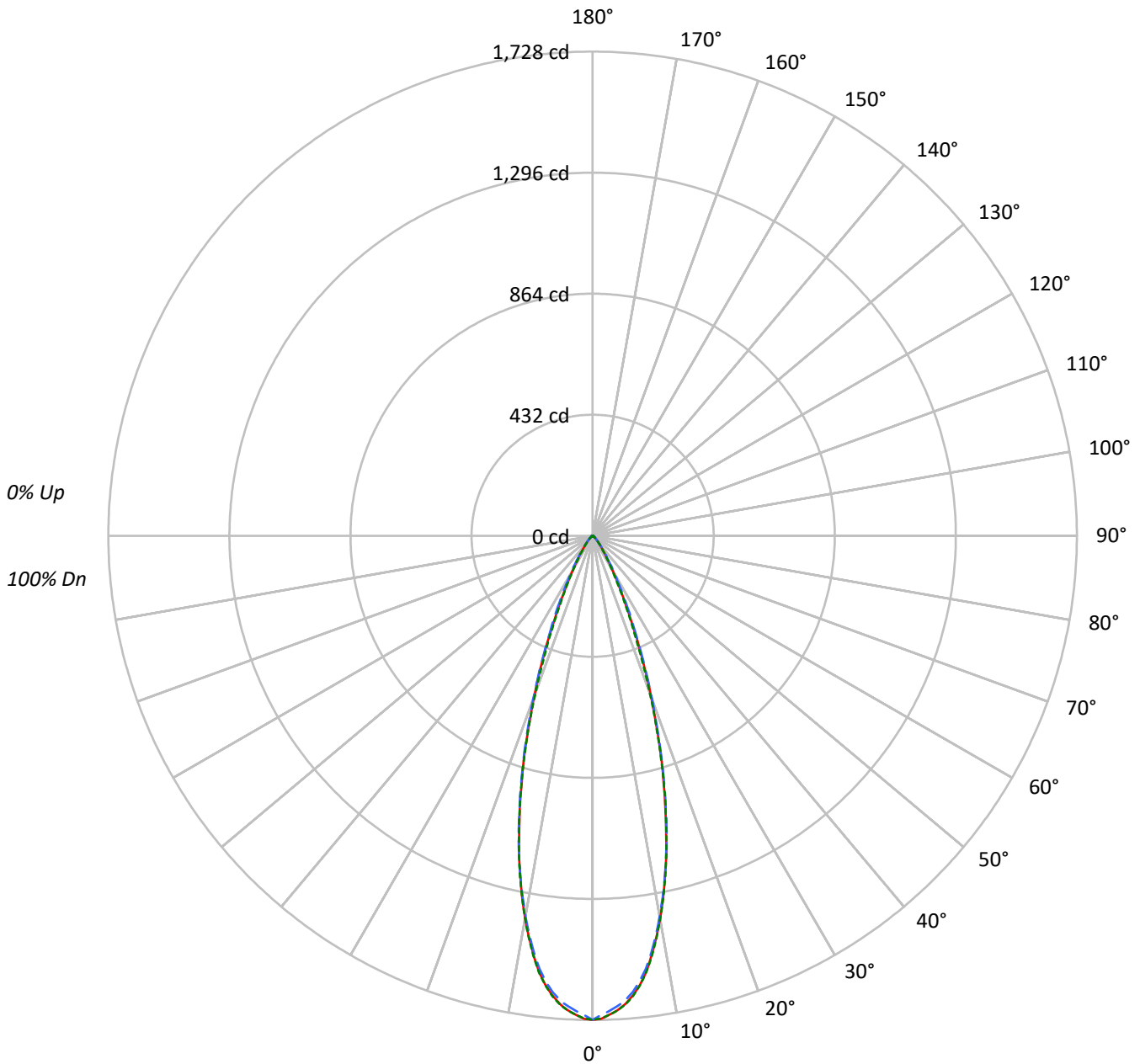
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69																			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67																			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64																			

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

	0°	45°	90°
0°	852381	852381	852381
5°	815720	809579	816958
10°	694949	690591	695701
15°	512196	515567	513881
20°	319740	325673	312705
25°	165160	177245	156886
30°	79186	90751	75483
35°	40895	45231	38245
40°	22928	24087	21768
45°	13954	13954	13396
50°	7215	8903	7215
55°	3785	5935	4043
60°	4342	4342	4342
65°	4670	4670	4670
70°	5770	5193	5770
75°	5528	5528	5528
80°	5114	5114	5114
85°	3962	3962	3962



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.6	23.0
10°-20°	273.0	42.2
20°-30°	148.0	22.9
30°-40°	47.5	7.3
40°-50°	16.2	2.5
50°-60°	5.7	0.9
60°-70°	4.2	0.6
70°-80°	3.0	0.5
80°-90°	0.9	0.1
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°	569.5	88.0
0°-40°	617.1	95.4
0°-60°	638.9	98.8
0°-90°	647.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	647.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1728	1728	1728	1728	1728	
5°	1647	1637	1635	1651	1650	149
15°	1003	1011	1009	1014	1006	272
25°	303	317	326	303	288	145
35°	68	71	75	68	64	46
45°	20	20	20	20	19	16
55°	4	5	7	5	5	5
65°	4	4	4	4	4	4
75°	3	3	3	3	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1727.7	1727.7	1727.7	1727.7	1727.7
1°	1724.7	1712.4	1710.6	1726.6	1722.9
2°	1711.0	1699.3	1697.5	1713.5	1710.2
3°	1695.7	1685.2	1681.6	1698.3	1696.1
4°	1675.4	1665.6	1662.3	1679.0	1677.2
5°	1647.1	1636.9	1634.7	1651.1	1649.6
6°	1612.2	1603.9	1599.9	1616.2	1613.3
7°	1568.7	1561.1	1556.7	1568.7	1570.1
8°	1512.1	1508.4	1503.3	1515.3	1515.3
9°	1451.8	1448.5	1443.1	1454.0	1454.0
10°	1387.2	1385.0	1378.5	1388.7	1388.7
11°	1316.4	1315.3	1310.6	1319.0	1319.0
12°	1242.0	1244.6	1240.2	1247.5	1244.9
13°	1167.6	1166.5	1166.9	1172.3	1168.3
14°	1083.4	1089.9	1091.0	1094.3	1088.1
15°	1002.8	1011.2	1009.4	1014.1	1006.1
16°	920.4	929.9	929.5	930.6	923.0
17°	843.5	848.9	849.3	848.2	838.8
18°	761.5	769.1	769.1	767.3	756.0
19°	681.3	687.1	691.1	687.1	674.0
20°	609.0	613.0	620.3	610.1	595.6
21°	539.7	543.3	549.5	537.5	521.6
22°	473.3	478.0	483.8	470.0	453.3
23°	411.2	422.1	424.3	405.4	391.3
24°	354.2	366.6	370.2	351.0	336.1
25°	303.4	317.2	325.6	303.1	288.2
26°	259.5	272.9	283.1	260.6	246.4
27°	221.0	235.2	245.7	224.7	211.2
28°	188.0	201.8	212.7	193.1	180.4
29°	163.3	171.3	182.2	165.9	154.3
30°	139.0	147.7	159.3	142.6	132.5
32.5°	95.5	100.2	109.2	99.1	91.1
35°	67.9	70.8	75.1	68.2	63.5
37.5°	48.3	49.7	52.3	48.3	45.7
40°	35.6	36.3	37.4	35.2	33.8
42.5°	26.5	26.9	26.9	26.1	25.4
45°	20.0	20.3	20.0	20.0	19.2
47.5°	14.5	15.6	15.2	15.2	14.2
50°	9.4	11.6	11.6	11.3	9.4
52.5°	5.8	8.0	9.1	8.0	6.2
55°	4.4	5.4	6.9	5.4	4.7
57.5°	4.4	4.4	5.1	4.4	4.4
60°	4.4	4.4	4.4	4.4	4.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	4.0	4.0	4.0	4.0	4.0
70°	4.0	4.0	3.6	4.0	4.0
72.5°	3.6	3.6	3.3	3.6	3.3
75°	2.9	2.9	2.9	2.9	2.9
77.5°	2.2	2.2	2.2	2.2	2.2
80°	1.8	1.8	1.8	1.8	1.8
82.5°	1.1	1.1	1.1	1.5	1.1
85°	0.7	0.7	0.7	0.7	0.7
87.5°	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	4.4	4.4	4.4	4.4	4.4
65°	4.0	4.4	4.0	4.4	4.0



(END OF REPORT)