

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: P283889

Luminaire Tested: **LDA2B108030D010 EU2B10WFL558030 2LBALPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283889  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-61)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B108030D010 EU2B10WFL558030 2LBALPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj SQ Pinhole w-lens, MW  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 933.9 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

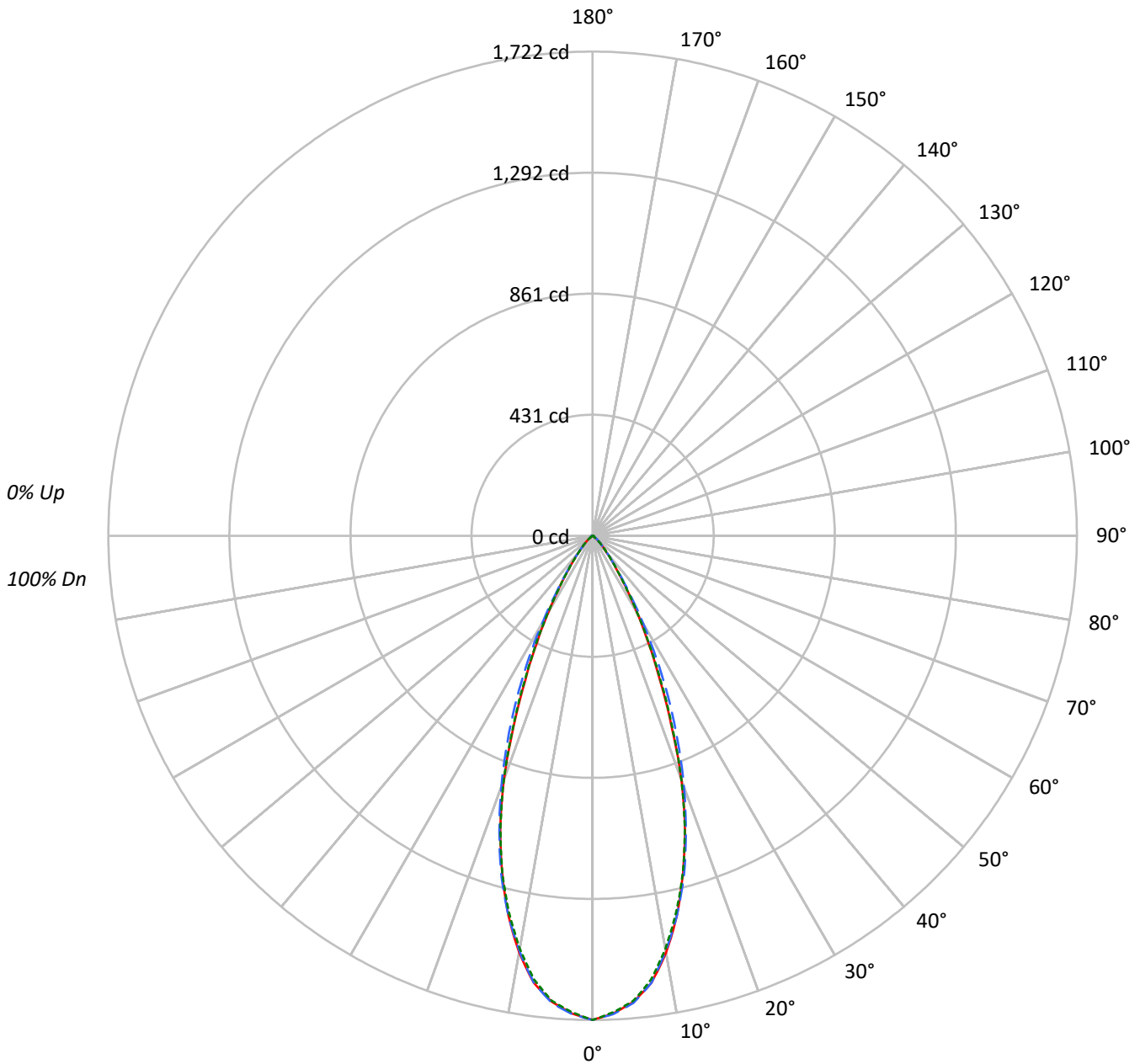
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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																			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89																			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84																			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79																			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75																			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71																			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67																			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64																			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61																			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58																			

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

	0°	45°	90°
0°	849520	849520	849520
5°	823991	825972	822208
10°	754214	751209	746700
15°	634422	640296	633401
20°	485123	498038	484335
25°	308056	347359	314098
30°	179166	202295	182299
35°	94739	100762	95040
40°	49977	52231	49977
45°	27979	29025	28327
50°	13048	16502	13048
55°	4731	9032	5161
60°	5427	5427	5427
65°	5837	6421	5837
70°	7212	6491	7212
75°	6672	6672	6672
80°	7103	5682	7103
85°	5661	5661	5661



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.7	16.5
10°-20°	342.2	36.6
20°-30°	276.4	29.6
30°-40°	109.2	11.7
40°-50°	33.5	3.6
50°-60°	8.6	0.9
60°-70°	5.2	0.6
70°-80°	3.8	0.4
80°-90°	1.1	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°	772.3	82.7
0°-40°	881.5	94.4
0°-60°	923.7	98.9
0°-90°	933.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	933.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1722	1722	1722	1722	1722	
5°	1664	1667	1668	1664	1660	154
15°	1242	1246	1254	1249	1240	341
25°	566	593	638	604	577	263
35°	157	162	167	162	158	105
45°	40	41	42	41	41	33
55°	6	8	10	8	6	7
65°	5	6	6	6	5	5
75°	4	4	4	4	4	4
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°	1721.9	1721.9	1721.9	1721.9	1721.9
2.5°	1700.3	1701.3	1702.8	1700.8	1695.8
5°	1663.8	1666.8	1667.8	1664.3	1660.2
7.5°	1603.7	1600.2	1603.2	1597.1	1592.1
10°	1505.5	1501.0	1499.5	1490.5	1490.5
12.5°	1384.3	1382.8	1383.8	1379.3	1372.3
15°	1242.1	1245.6	1253.6	1248.6	1240.1
17.5°	1091.3	1096.3	1103.3	1101.8	1090.3
20°	924.0	938.6	948.6	939.1	922.5
22.5°	733.7	764.8	790.3	770.3	743.2
25°	565.9	593.0	638.1	604.0	577.0
27.5°	429.2	448.7	489.8	456.3	437.7
30°	314.5	326.5	355.1	333.1	320.0
32.5°	224.9	233.4	245.4	232.4	225.9
35°	157.3	161.8	167.3	162.3	157.8
37.5°	110.7	112.2	116.2	112.2	110.2
40°	77.6	78.1	81.1	78.6	77.6
42.5°	56.1	56.1	57.6	56.6	56.1
45°	40.1	40.6	41.6	41.1	40.6
47.5°	28.5	29.5	29.5	30.0	28.0
50°	17.0	21.0	21.5	21.0	17.0
52.5°	9.0	12.5	15.5	12.5	9.0
55°	5.5	7.5	10.5	7.5	6.0
57.5°	5.5	5.5	7.0	6.0	5.5
60°	5.5	5.5	5.5	5.5	5.5
62.5°	5.5	5.5	5.5	5.5	5.5
65°	5.0	5.5	5.5	5.5	5.0
67.5°	5.0	5.0	5.0	5.0	5.0
70°	5.0	5.0	4.5	5.0	5.0
72.5°	4.5	4.5	4.0	4.5	4.5
75°	3.5	3.5	3.5	3.5	3.5
77.5°	3.0	3.0	3.0	3.0	3.0
80°	2.5	2.5	2.0	2.5	2.5
82.5°	1.5	1.5	1.5	1.5	1.5
85°	1.0	1.0	1.0	1.0	1.0
87.5°	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)