

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: P283885

Luminaire Tested: **LDA2B108027D010 EU2B10WFL558027 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283885  
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: LDA2B108027D010 EU2B10WFL558027 2LBALPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 896.9 lumens  
Efficiency: N/A  
Efficacy: 89.7 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

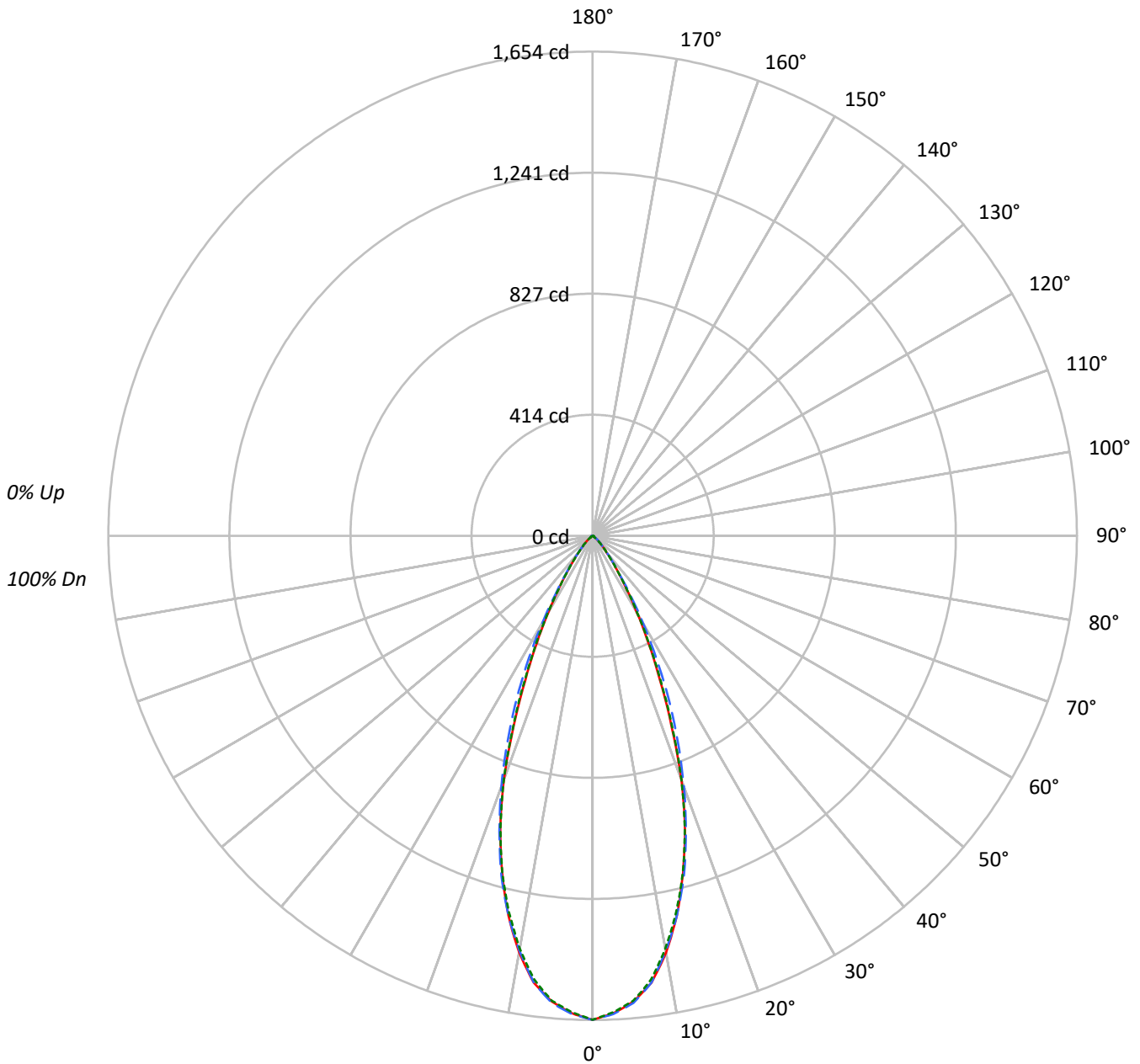
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	815774	815774	815774
5°	791255	793187	789621
10°	724306	721401	717042
15°	609241	614860	608220
20°	465907	478245	465119
25°	295862	333532	301632
30°	172045	194263	175064
35°	90945	96727	91246
40°	47981	50171	47981
45°	26862	27839	27211
50°	12588	15888	12588
55°	4559	8688	4989
60°	5230	5230	5230
65°	5603	6187	5603
70°	6924	6203	6924
75°	6481	6481	6481
80°	6819	5398	6819
85°	5661	5661	5661



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.6	16.5
10°-20°	328.6	36.6
20°-30°	265.4	29.6
30°-40°	104.9	11.7
40°-50°	32.2	3.6
50°-60°	8.3	0.9
60°-70°	5.0	0.6
70°-80°	3.7	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°	741.7	82.7
0°-40°	846.5	94.4
0°-60°	887.1	98.9
0°-90°	896.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	896.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1654	1654	1654	1654	1654	
5°	1598	1601	1602	1598	1594	148
15°	1193	1196	1204	1199	1191	328
25°	544	570	613	580	554	253
35°	151	155	161	156	152	101
45°	38	39	40	39	39	31
55°	5	7	10	7	6	7
65°	5	5	5	5	5	5
75°	3	3	3	3	3	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°	1653.5	1653.5	1653.5	1653.5	1653.5
2.5°	1632.8	1633.8	1635.2	1633.3	1628.5
5°	1597.7	1600.6	1601.6	1598.2	1594.4
7.5°	1540.0	1536.7	1539.5	1533.8	1529.0
10°	1445.8	1441.4	1440.0	1431.3	1431.3
12.5°	1329.4	1327.9	1328.9	1324.6	1317.8
15°	1192.8	1196.1	1203.8	1199.0	1190.8
17.5°	1048.0	1052.8	1059.5	1058.1	1047.0
20°	887.4	901.3	910.9	901.8	885.9
22.5°	704.6	734.4	758.9	739.7	713.7
25°	543.5	569.5	612.7	580.0	554.1
27.5°	412.2	430.9	470.4	438.2	420.4
30°	302.0	313.6	341.0	319.8	307.3
32.5°	215.9	224.1	235.7	223.2	216.9
35°	151.0	155.3	160.6	155.8	151.5
37.5°	106.3	107.7	111.6	107.7	105.8
40°	74.5	75.0	77.9	75.5	74.5
42.5°	53.9	53.9	55.3	54.3	53.9
45°	38.5	39.0	39.9	39.4	39.0
47.5°	27.4	28.4	28.4	28.9	26.9
50°	16.4	20.2	20.7	20.2	16.4
52.5°	8.7	12.0	14.9	12.0	8.7
55°	5.3	7.2	10.1	7.2	5.8
57.5°	5.3	5.3	6.7	5.8	5.3
60°	5.3	5.3	5.3	5.3	5.3
62.5°	5.3	5.3	5.3	5.3	5.3
65°	4.8	5.3	5.3	5.3	4.8
67.5°	4.8	4.8	4.8	4.8	4.8
70°	4.8	4.8	4.3	4.8	4.8
72.5°	4.3	4.3	3.8	4.3	4.3
75°	3.4	3.4	3.4	3.4	3.4
77.5°	2.9	2.9	2.9	2.9	2.9
80°	2.4	2.4	1.9	2.4	2.4
82.5°	1.4	1.4	1.4	1.4	1.4
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)