

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: P283920

Luminaire Tested: **LDA2B109027D010 EU2B10WFL559027 2LBALPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283920  
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: LDA2B109027D010 EU2B10WFL559027 2LBALPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj SQ Pinhole w-lens, MB  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 694.8 lumens  
Efficiency: N/A  
Efficacy: 69.5 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

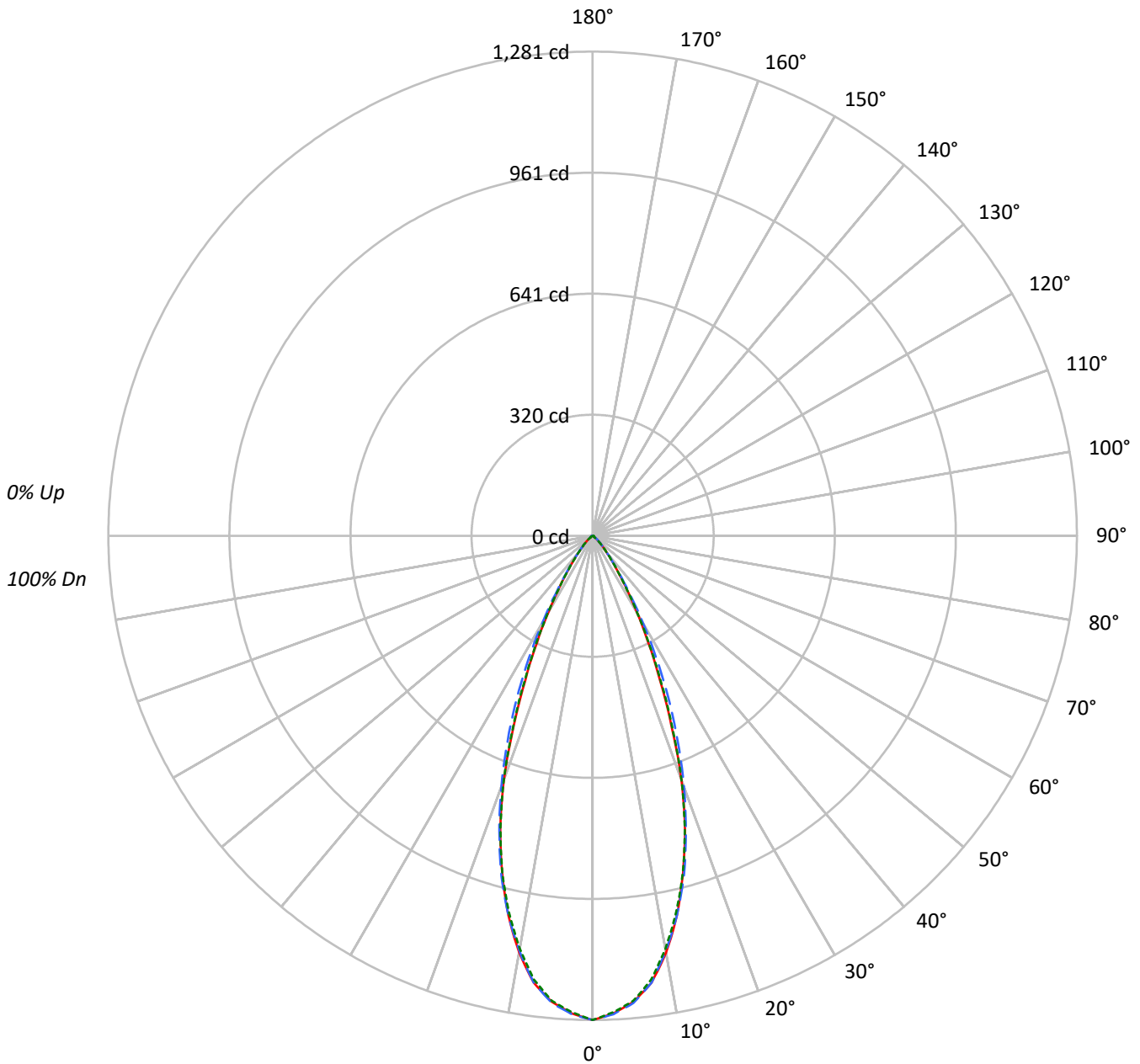
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	631996	631996	631996
5°	612966	614452	611679
10°	561089	558835	555479
15°	471948	476340	471181
20°	360902	370510	360324
25°	229177	258410	233641
30°	133306	150511	135642
35°	70467	74924	70708
40°	37225	38900	37225
45°	20792	21560	21071
50°	9748	12281	9748
55°	3527	6709	3871
60°	4046	4046	4046
65°	4319	4786	4319
70°	5337	4904	5337
75°	4956	4956	4956
80°	5398	4262	5398
85°	3962	3962	3962



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.3	16.5
10°-20°	254.6	36.6
20°-30°	205.6	29.6
30°-40°	81.3	11.7
40°-50°	25.0	3.6
50°-60°	6.4	0.9
60°-70°	3.9	0.6
70°-80°	2.9	0.4
80°-90°	0.8	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°	574.5	82.7
0°-40°	655.8	94.4
0°-60°	687.2	98.9
0°-90°	694.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	694.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1281	1281	1281	1281	1281	
5°	1238	1240	1241	1238	1235	115
15°	924	927	933	929	922	254
25°	421	441	475	449	429	196
35°	117	120	124	121	117	78
45°	30	30	31	31	30	24
55°	4	6	8	6	4	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°	1281.0	1281.0	1281.0	1281.0	1281.0
2.5°	1264.9	1265.7	1266.8	1265.3	1261.6
5°	1237.7	1240.0	1240.7	1238.1	1235.1
7.5°	1193.0	1190.4	1192.7	1188.2	1184.5
10°	1120.0	1116.6	1115.5	1108.8	1108.8
12.5°	1029.8	1028.7	1029.5	1026.1	1020.9
15°	924.0	926.6	932.6	928.9	922.5
17.5°	811.9	815.6	820.8	819.7	811.1
20°	687.4	698.2	705.7	698.6	686.3
22.5°	545.8	568.9	587.9	573.0	552.9
25°	421.0	441.1	474.7	449.3	429.2
27.5°	319.3	333.8	364.4	339.4	325.6
30°	234.0	242.9	264.2	247.8	238.1
32.5°	167.3	173.6	182.6	172.9	168.0
35°	117.0	120.3	124.4	120.7	117.4
37.5°	82.3	83.5	86.4	83.5	82.0
40°	57.8	58.1	60.4	58.5	57.8
42.5°	41.7	41.7	42.8	42.1	41.7
45°	29.8	30.2	30.9	30.6	30.2
47.5°	21.2	22.0	22.0	22.4	20.9
50°	12.7	15.6	16.0	15.6	12.7
52.5°	6.7	9.3	11.6	9.3	6.7
55°	4.1	5.6	7.8	5.6	4.5
57.5°	4.1	4.1	5.2	4.5	4.1
60°	4.1	4.1	4.1	4.1	4.1
62.5°	4.1	4.1	4.1	4.1	4.1
65°	3.7	4.1	4.1	4.1	3.7
67.5°	3.7	3.7	3.7	3.7	3.7
70°	3.7	3.7	3.4	3.7	3.7
72.5°	3.4	3.4	3.0	3.4	3.4
75°	2.6	2.6	2.6	2.6	2.6
77.5°	2.2	2.2	2.2	2.2	2.2
80°	1.9	1.9	1.5	1.9	1.9
82.5°	1.1	1.1	1.1	1.1	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°







(END OF REPORT)