

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: P283944

Luminaire Tested: **LDA2B109050D010 EU2B10WFL559050 2LBALPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283944  
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: LDA2B109050D010 EU2B10WFL559050 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: 789.6 lumens  
Efficiency: N/A  
Efficacy: 79.0 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

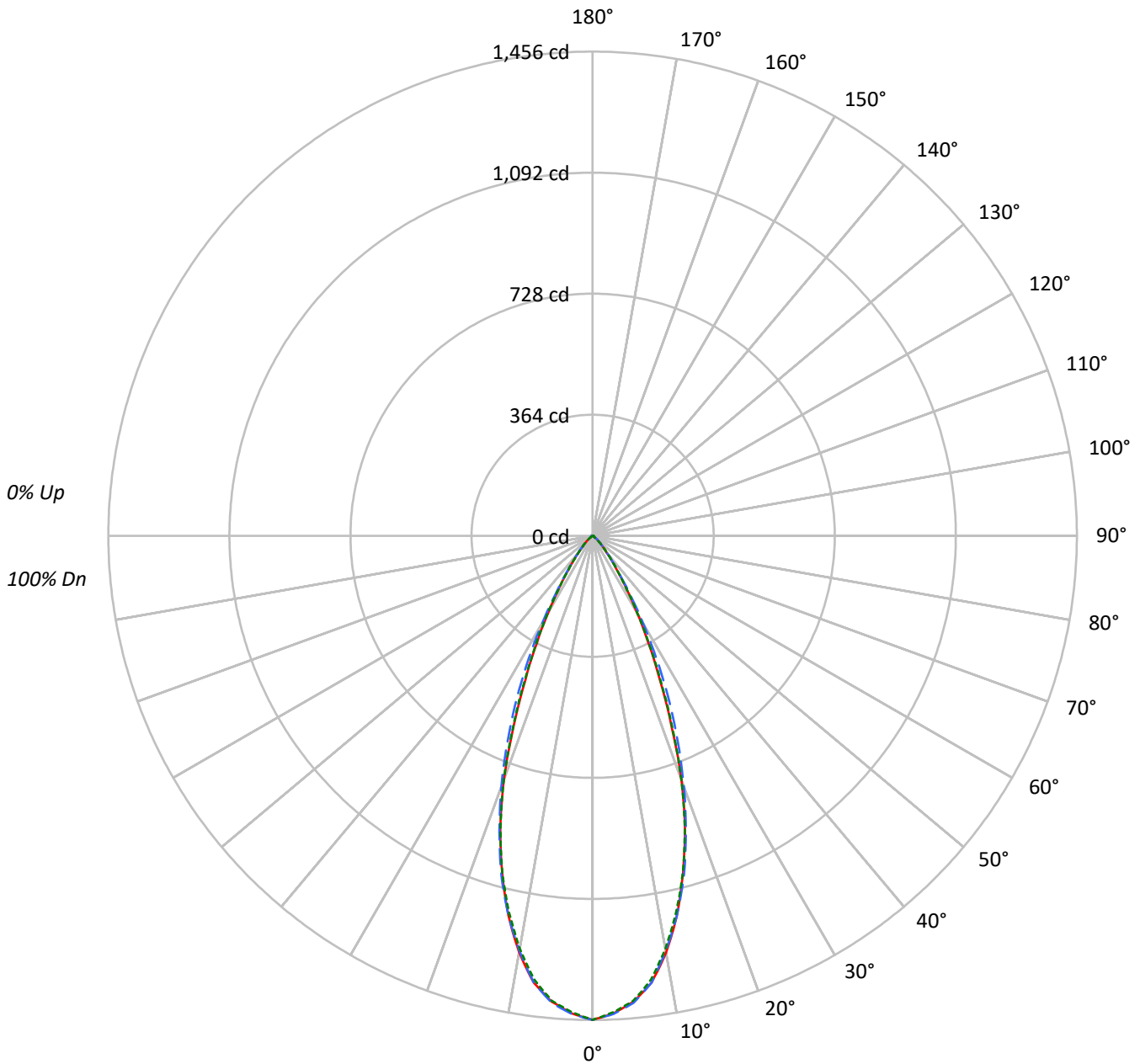
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	718187	718187	718187
5°	696614	698297	695128
10°	637638	635083	631276
15°	536355	541309	535487
20°	410149	421017	409467
25°	260478	293630	265541
30°	151479	171019	154157
35°	80104	85163	80345
40°	42249	44181	42249
45°	23653	24490	23932
50°	11052	13969	11052
55°	4043	7655	4387
60°	4638	4638	4638
65°	4903	5487	4903
70°	6058	5481	6058
75°	5719	5719	5719
80°	5966	4830	5966
85°	4529	4529	4529



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.9	16.5
10°-20°	289.3	36.6
20°-30°	233.7	29.6
30°-40°	92.4	11.7
40°-50°	28.4	3.6
50°-60°	7.3	0.9
60°-70°	4.4	0.6
70°-80°	3.2	0.4
80°-90°	1.0	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°	652.9	82.7
0°-40°	745.3	94.4
0°-60°	780.9	98.9
0°-90°	789.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	789.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1456	1456	1456	1456	1456	
5°	1407	1409	1410	1407	1404	130
15°	1050	1053	1060	1056	1048	288
25°	478	501	539	511	488	223
35°	133	137	141	137	133	89
45°	34	34	35	35	34	28
55°	5	6	9	6	5	6
65°	4	5	5	5	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°	1455.7	1455.7	1455.7	1455.7	1455.7
2.5°	1437.5	1438.3	1439.6	1437.9	1433.7
5°	1406.6	1409.1	1410.0	1407.0	1403.6
7.5°	1355.8	1352.8	1355.3	1350.3	1346.0
10°	1272.8	1269.0	1267.7	1260.1	1260.1
12.5°	1170.3	1169.0	1169.9	1166.1	1160.1
15°	1050.1	1053.0	1059.8	1055.6	1048.4
17.5°	922.6	926.8	932.8	931.5	921.8
20°	781.2	793.5	801.9	793.9	779.9
22.5°	620.3	646.5	668.1	651.2	628.3
25°	478.5	501.3	539.4	510.6	487.8
27.5°	362.9	379.4	414.1	385.7	370.1
30°	265.9	276.1	300.2	281.6	270.6
32.5°	190.1	197.3	207.5	196.5	191.0
35°	133.0	136.8	141.4	137.2	133.4
37.5°	93.6	94.8	98.2	94.8	93.2
40°	65.6	66.1	68.6	66.5	65.6
42.5°	47.4	47.4	48.7	47.8	47.4
45°	33.9	34.3	35.1	34.7	34.3
47.5°	24.1	25.0	25.0	25.4	23.7
50°	14.4	17.8	18.2	17.8	14.4
52.5°	7.6	10.6	13.1	10.6	7.6
55°	4.7	6.4	8.9	6.4	5.1
57.5°	4.7	4.7	5.9	5.1	4.7
60°	4.7	4.7	4.7	4.7	4.7
62.5°	4.7	4.7	4.7	4.7	4.7
65°	4.2	4.7	4.7	4.7	4.2
67.5°	4.2	4.2	4.2	4.2	4.2
70°	4.2	4.2	3.8	4.2	4.2
72.5°	3.8	3.8	3.4	3.8	3.8
75°	3.0	3.0	3.0	3.0	3.0
77.5°	2.5	2.5	2.5	2.5	2.5
80°	2.1	2.1	1.7	2.1	2.1
82.5°	1.3	1.3	1.3	1.3	1.3
85°	0.8	0.8	0.8	0.8	0.8
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)