

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: P283937

Luminaire Tested: **LDA2B109040D010 EU2B10WFL559040 2LBALPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283937  
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: LDA2B109040D010 EU2B10WFL559040 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: 798.7 lumens  
Efficiency: N/A  
Efficacy: 79.9 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

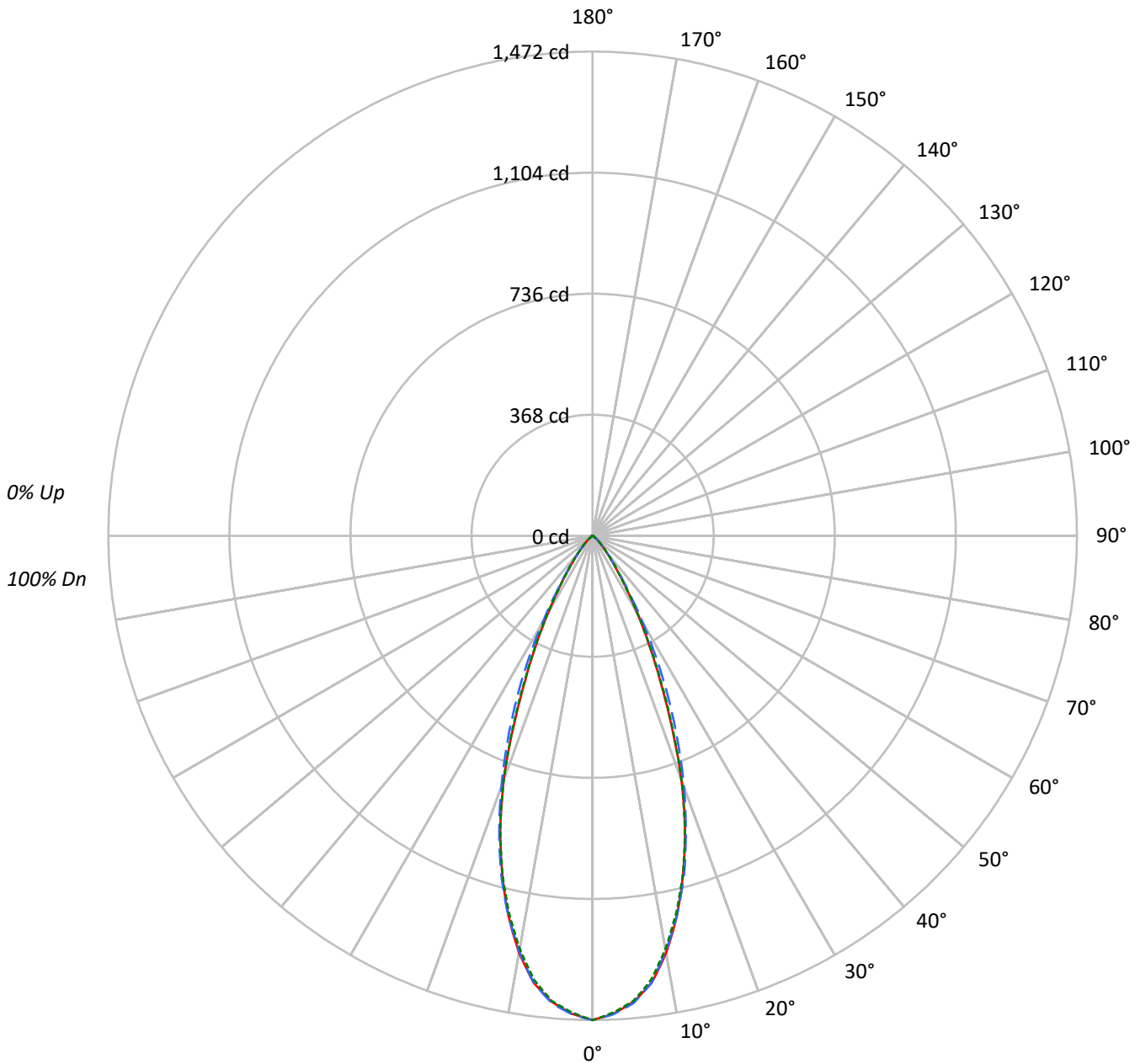
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94					94			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89					89			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84					84			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79					79			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75					75			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71					71			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67					67			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64					64			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61					61			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58					58			

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

	0°	45°	90°
0°	726475	726475	726475
5°	704637	706370	703151
10°	645002	642447	638540
15°	542535	547592	541667
20°	414874	425900	414192
25°	263472	297060	268589
30°	153245	173013	155923
35°	81007	86187	81248
40°	42764	44696	42764
45°	23932	24769	24211
50°	11206	14123	11206
55°	4043	7741	4387
60°	4638	4638	4638
65°	5020	5487	5020
70°	6203	5626	6203
75°	5719	5719	5719
80°	5966	4830	5966
85°	5095	5095	5095



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.4	16.5
10°-20°	292.7	36.6
20°-30°	236.4	29.6
30°-40°	93.4	11.7
40°-50°	28.7	3.6
50°-60°	7.4	0.9
60°-70°	4.5	0.6
70°-80°	3.3	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°	660.5	82.7
0°-40°	753.9	94.4
0°-60°	790.0	98.9
0°-90°	798.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	798.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1472	1472	1472	1472	1472	
5°	1423	1425	1426	1423	1420	132
15°	1062	1065	1072	1068	1060	292
25°	484	507	546	516	493	225
35°	134	138	143	139	135	90
45°	34	35	36	35	35	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°	1472.5	1472.5	1472.5	1472.5	1472.5
2.5°	1454.1	1455.0	1456.2	1454.5	1450.2
5°	1422.8	1425.4	1426.3	1423.3	1419.8
7.5°	1371.4	1368.4	1371.0	1365.9	1361.6
10°	1287.5	1283.6	1282.4	1274.6	1274.6
12.5°	1183.8	1182.6	1183.4	1179.6	1173.6
15°	1062.2	1065.2	1072.1	1067.8	1060.5
17.5°	933.3	937.6	943.6	942.3	932.4
20°	790.2	802.6	811.2	803.1	788.9
22.5°	627.5	654.0	675.9	658.7	635.6
25°	484.0	507.1	545.7	516.5	493.4
27.5°	367.1	383.8	418.9	390.2	374.3
30°	269.0	279.3	303.7	284.8	273.7
32.5°	192.3	199.6	209.9	198.7	193.2
35°	134.5	138.3	143.1	138.8	134.9
37.5°	94.7	95.9	99.4	95.9	94.2
40°	66.4	66.8	69.4	67.2	66.4
42.5°	48.0	48.0	49.3	48.4	48.0
45°	34.3	34.7	35.5	35.1	34.7
47.5°	24.4	25.3	25.3	25.7	24.0
50°	14.6	18.0	18.4	18.0	14.6
52.5°	7.7	10.7	13.3	10.7	7.7
55°	4.7	6.4	9.0	6.4	5.1
57.5°	4.7	4.7	6.0	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°	4.3	4.7	4.7	4.7	4.3
67.5°	4.3	4.3	4.3	4.3	4.3
70°	4.3	4.3	3.9	4.3	4.3
72.5°	3.9	3.9	3.4	3.9	3.9
75°	3.0	3.0	3.0	3.0	3.0
77.5°	2.6	2.6	2.6	2.6	2.6
80°	2.1	2.1	1.7	2.1	2.1
82.5°	1.3	1.3	1.3	1.3	1.3
85°	0.9	0.9	0.9	0.9	0.9
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)