

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: P283859

Luminaire Tested: **LDA2B059050D010 EU2B05WFL559050 2LBALPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283859  
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: LDA2B059050D010 EU2B05WFL559050 2LBALPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 500 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: 604.0 lumens  
Efficiency: N/A  
Efficacy: 86.3 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

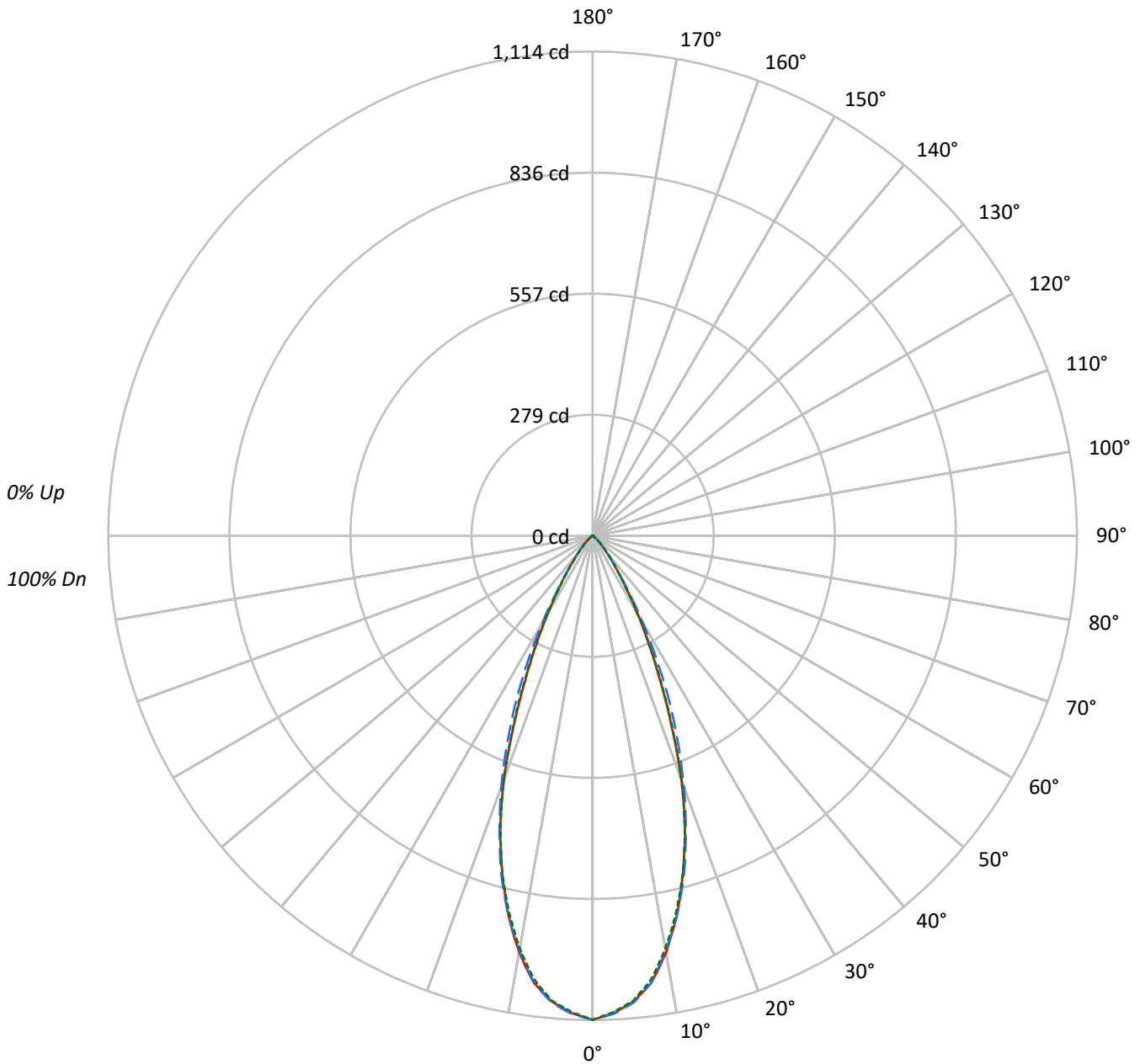
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	549358	549358	549358
5°	532885	534173	531746
10°	487747	485793	482888
15°	410247	414078	409634
20°	313755	322050	313230
25°	199237	224605	203102
30°	115874	130800	117925
35°	61252	65167	61433
40°	32331	33812	32331
45°	18071	18769	18280
50°	8443	10669	8443
55°	3097	5849	3355
60°	3552	3552	3552
65°	3736	4203	3736
70°	4616	4183	4616
75°	4384	4384	4384
80°	4546	3694	4546
85°	3396	3396	3396



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.4	16.5
10°-20°	221.3	36.6
20°-30°	178.7	29.6
30°-40°	70.6	11.7
40°-50°	21.7	3.6
50°-60°	5.6	0.9
60°-70°	3.4	0.6
70°-80°	2.5	0.4
80°-90°	0.7	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°	499.5	82.7
0°-40°	570.1	94.4
0°-60°	597.4	98.9
0°-90°	604.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	604.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1114	1114	1114	1114	1114	
5°	1076	1078	1079	1076	1074	100
15°	803	806	811	808	802	221
25°	366	384	413	391	373	170
35°	102	105	108	105	102	68
45°	26	26	27	27	26	21
55°	4	5	7	5	4	4
65°	3	4	4	4	3	3
75°	2	2	2	2	2	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°	1113.5	1113.5	1113.5	1113.5	1113.5
2.5°	1099.6	1100.3	1101.2	1099.9	1096.7
5°	1076.0	1077.9	1078.6	1076.3	1073.7
7.5°	1037.1	1034.8	1036.8	1032.9	1029.6
10°	973.6	970.7	969.7	963.9	963.9
12.5°	895.2	894.3	894.9	892.0	887.5
15°	803.2	805.5	810.7	807.5	802.0
17.5°	705.8	709.0	713.5	712.6	705.1
20°	597.6	607.0	613.4	607.3	596.6
22.5°	474.5	494.6	511.1	498.1	480.7
25°	366.0	383.5	412.6	390.6	373.1
27.5°	277.6	290.2	316.8	295.1	283.1
30°	203.4	211.2	229.6	215.4	207.0
32.5°	145.4	150.9	158.7	150.3	146.1
35°	101.7	104.6	108.2	104.9	102.0
37.5°	71.6	72.6	75.1	72.6	71.3
40°	50.2	50.5	52.5	50.9	50.2
42.5°	36.3	36.3	37.2	36.6	36.3
45°	25.9	26.2	26.9	26.6	26.2
47.5°	18.5	19.1	19.1	19.4	18.1
50°	11.0	13.6	13.9	13.6	11.0
52.5°	5.8	8.1	10.0	8.1	5.8
55°	3.6	4.9	6.8	4.9	3.9
57.5°	3.6	3.6	4.5	3.9	3.6
60°	3.6	3.6	3.6	3.6	3.6
62.5°	3.6	3.6	3.6	3.6	3.6
65°	3.2	3.6	3.6	3.6	3.2
67.5°	3.2	3.2	3.2	3.2	3.2
70°	3.2	3.2	2.9	3.2	3.2
72.5°	2.9	2.9	2.6	2.9	2.9
75°	2.3	2.3	2.3	2.3	2.3
77.5°	1.9	1.9	1.9	1.9	1.9
80°	1.6	1.6	1.3	1.6	1.6
82.5°	1.0	1.0	1.0	1.0	1.0
85°	0.6	0.6	0.6	0.6	0.6
87.5°	0.3	0.3	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)