

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: P283815

Luminaire Tested: **LDA2B058040D010 EU2B05WFL558040 2LBAPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283815  
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: LDA2B058040D010 EU2B05WFL558040 2LBAPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND 2in Adj SQ PinHole, MB  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 749.9 lumens  
Efficiency: N/A  
Efficacy: 107.1 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

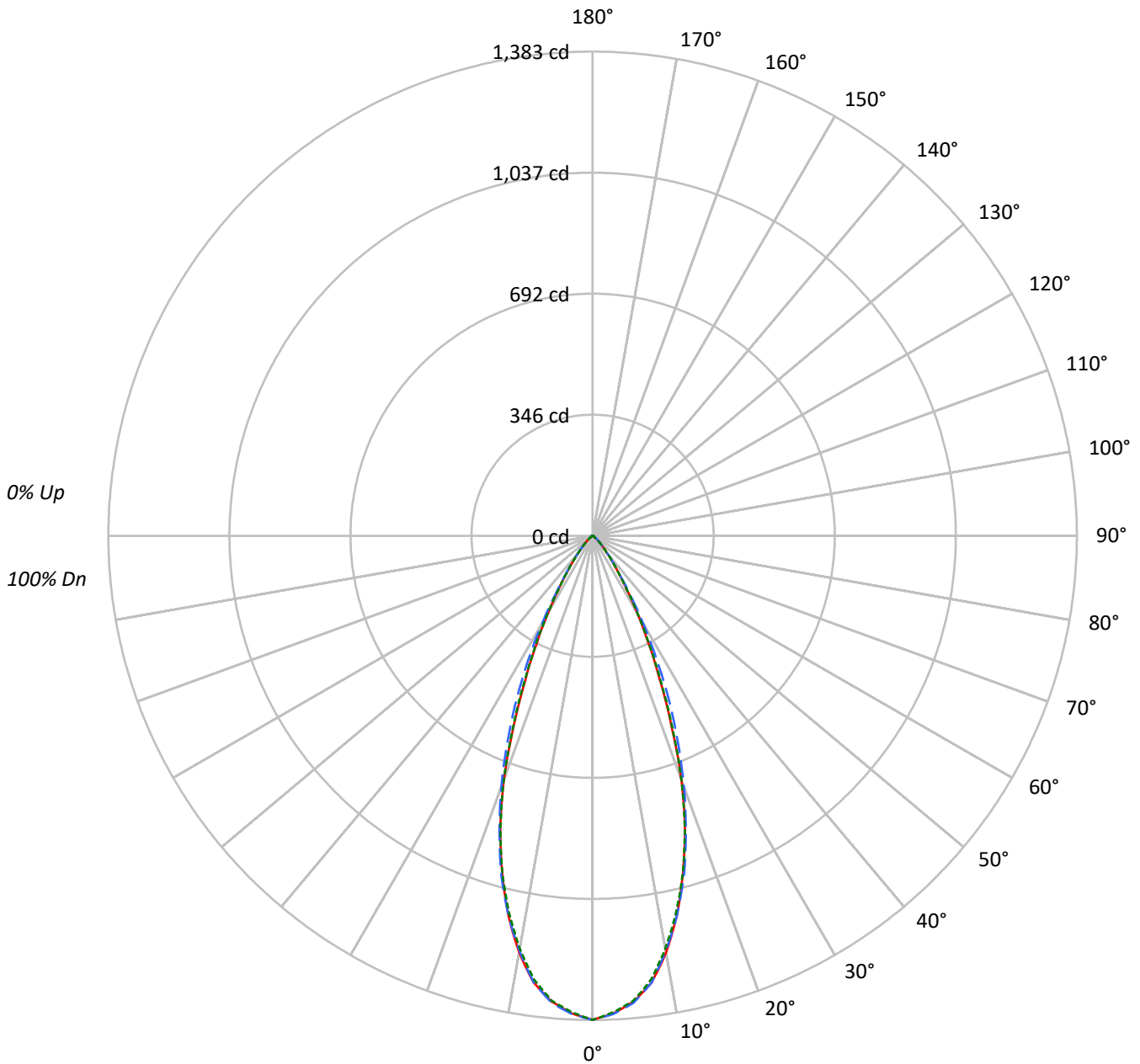
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20					20					20					20					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°	682171	682171	682171
5°	661699	663283	660312
10°	605676	603271	599614
15°	509438	514188	508620
20°	389568	399911	388938
25°	247414	278932	252204
30°	143902	162474	146409
35°	76068	80887	76309
40°	40124	41991	40124
45°	22467	23304	22746
50°	10515	13278	10515
55°	3785	7225	4129
60°	4342	4342	4342
65°	4670	5137	4670
70°	5770	5193	5770
75°	5337	5337	5337
80°	5682	4546	5682
85°	4529	4529	4529



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.4	16.5
10°-20°	274.8	36.6
20°-30°	221.9	29.6
30°-40°	87.7	11.7
40°-50°	26.9	3.6
50°-60°	6.9	0.9
60°-70°	4.2	0.6
70°-80°	3.1	0.4
80°-90°	0.9	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°	620.2	82.7
0°-40°	707.9	94.4
0°-60°	741.8	98.9
0°-90°	749.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	749.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1383	1383	1383	1383	1383	
5°	1336	1338	1339	1336	1333	124
15°	997	1000	1007	1003	996	274
25°	454	476	512	485	463	212
35°	126	130	134	130	127	85
45°	32	33	33	33	33	26
55°	4	6	8	6	5	6
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°	1382.7	1382.7	1382.7	1382.7	1382.7
2.5°	1365.4	1366.2	1367.4	1365.8	1361.8
5°	1336.1	1338.5	1339.3	1336.5	1333.3
7.5°	1287.8	1285.0	1287.4	1282.6	1278.6
10°	1209.0	1205.4	1204.2	1196.9	1196.9
12.5°	1111.6	1110.4	1111.2	1107.6	1102.0
15°	997.4	1000.2	1006.7	1002.7	995.8
17.5°	876.4	880.4	886.0	884.8	875.6
20°	742.0	753.7	761.7	754.1	740.8
22.5°	589.2	614.1	634.7	618.6	596.8
25°	454.5	476.2	512.4	485.0	463.3
27.5°	344.7	360.4	393.3	366.4	351.5
30°	252.6	262.2	285.2	267.5	257.0
32.5°	180.6	187.4	197.1	186.6	181.4
35°	126.3	129.9	134.3	130.3	126.7
37.5°	88.9	90.1	93.3	90.1	88.5
40°	62.3	62.7	65.2	63.1	62.3
42.5°	45.0	45.0	46.3	45.4	45.0
45°	32.2	32.6	33.4	33.0	32.6
47.5°	22.9	23.7	23.7	24.1	22.5
50°	13.7	16.9	17.3	16.9	13.7
52.5°	7.2	10.1	12.5	10.1	7.2
55°	4.4	6.0	8.4	6.0	4.8
57.5°	4.4	4.4	5.6	4.8	4.4
60°	4.4	4.4	4.4	4.4	4.4
62.5°	4.4	4.4	4.4	4.4	4.4
65°	4.0	4.4	4.4	4.4	4.0
67.5°	4.0	4.0	4.0	4.0	4.0
70°	4.0	4.0	3.6	4.0	4.0
72.5°	3.6	3.6	3.2	3.6	3.6
75°	2.8	2.8	2.8	2.8	2.8
77.5°	2.4	2.4	2.4	2.4	2.4
80°	2.0	2.0	1.6	2.0	2.0
82.5°	1.2	1.2	1.2	1.2	1.2
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)