

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: P283905

Luminaire Tested: **LDA2B108050D010 EU2B10WFL558050 2LBAPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283905  
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: LDA2B108050D010 EU2B10WFL558050 2LBAPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 1000 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: 1012.3 lumens  
Efficiency: N/A  
Efficacy: 101.2 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

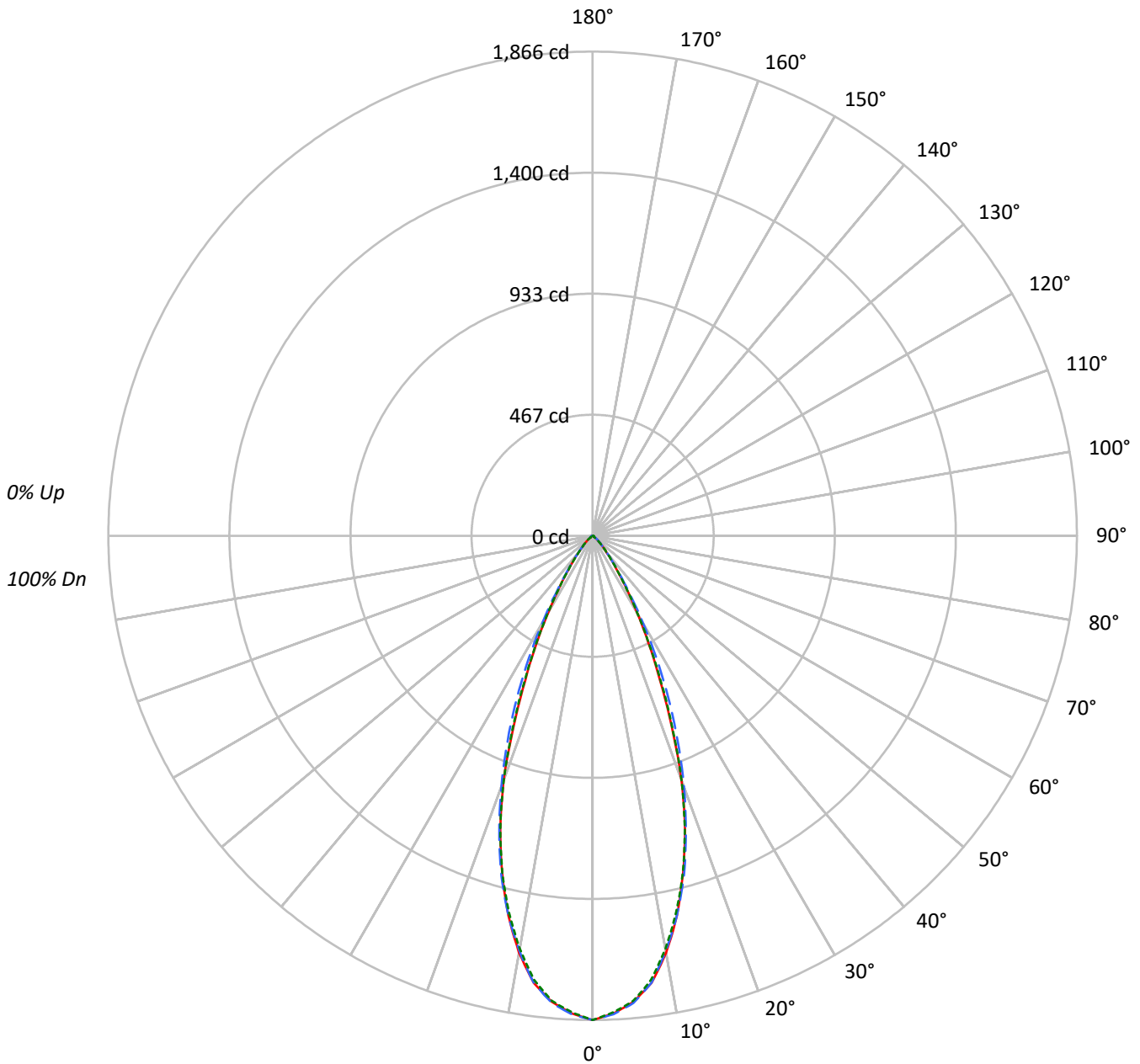
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20					20					20					20					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°	920761	920761	920761
5°	893078	895207	891196
10°	817487	814181	809321
15°	687593	693977	686520
20°	525812	539778	524972
25°	333913	376482	340391
30°	194206	219272	197624
35°	102689	109194	102990
40°	54164	56611	54164
45°	30281	31467	30700
50°	14199	17884	14199
55°	5161	9806	5591
60°	5920	5920	5920
65°	6304	7004	6304
70°	7789	7068	7789
75°	7244	7244	7244
80°	7671	6251	7671
85°	6227	6227	6227



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.6	16.5
10°-20°	370.9	36.6
20°-30°	299.6	29.6
30°-40°	118.4	11.7
40°-50°	36.3	3.6
50°-60°	9.4	0.9
60°-70°	5.7	0.6
70°-80°	4.2	0.4
80°-90°	1.2	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°	837.1	82.7
0°-40°	955.5	94.4
0°-60°	1001.2	98.9
0°-90°	1012.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1012.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1866	1866	1866	1866	1866	
5°	1803	1807	1808	1804	1800	167
15°	1346	1350	1359	1353	1344	370
25°	613	643	692	655	625	286
35°	170	175	181	176	171	114
45°	43	44	45	44	44	35
55°	6	8	11	8	6	8
65°	5	6	6	6	5	6
75°	4	4	4	4	4	4
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°	1866.3	1866.3	1866.3	1866.3	1866.3
2.5°	1842.9	1844.0	1845.6	1843.5	1838.0
5°	1803.3	1806.6	1807.6	1803.8	1799.5
7.5°	1738.2	1734.4	1737.6	1731.1	1725.7
10°	1631.8	1626.9	1625.2	1615.5	1615.5
12.5°	1500.4	1498.8	1499.9	1495.0	1487.4
15°	1346.2	1350.0	1358.7	1353.3	1344.1
17.5°	1182.8	1188.3	1195.9	1194.2	1181.8
20°	1001.5	1017.3	1028.1	1017.8	999.9
22.5°	795.3	828.9	856.6	834.9	805.6
25°	613.4	642.7	691.6	654.7	625.3
27.5°	465.2	486.4	530.9	494.5	474.4
30°	340.9	353.9	384.9	361.0	346.9
32.5°	243.7	253.0	266.0	251.9	244.8
35°	170.5	175.3	181.3	175.9	171.0
37.5°	120.0	121.6	125.9	121.6	119.4
40°	84.1	84.7	87.9	85.2	84.1
42.5°	60.8	60.8	62.4	61.3	60.8
45°	43.4	44.0	45.1	44.5	44.0
47.5°	30.9	32.0	32.0	32.6	30.4
50°	18.5	22.8	23.3	22.8	18.5
52.5°	9.8	13.6	16.8	13.6	9.8
55°	6.0	8.1	11.4	8.1	6.5
57.5°	6.0	6.0	7.6	6.5	6.0
60°	6.0	6.0	6.0	6.0	6.0
62.5°	6.0	6.0	6.0	6.0	6.0
65°	5.4	6.0	6.0	6.0	5.4
67.5°	5.4	5.4	5.4	5.4	5.4
70°	5.4	5.4	4.9	5.4	5.4
72.5°	4.9	4.9	4.3	4.9	4.9
75°	3.8	3.8	3.8	3.8	3.8
77.5°	3.3	3.3	3.3	3.3	3.3
80°	2.7	2.7	2.2	2.7	2.7
82.5°	1.6	1.6	1.6	1.6	1.6
85°	1.1	1.1	1.1	1.1	1.1
87.5°	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)