

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: P283604

Luminaire Tested: **LDA2B109050D010 EU2B10FL409050 2LBAPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283604  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B109050D010 EU2B10FL409050 2LBAPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MW  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 836.5 lumens  
Efficiency: N/A  
Efficacy: 83.6 lumens/watt  
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

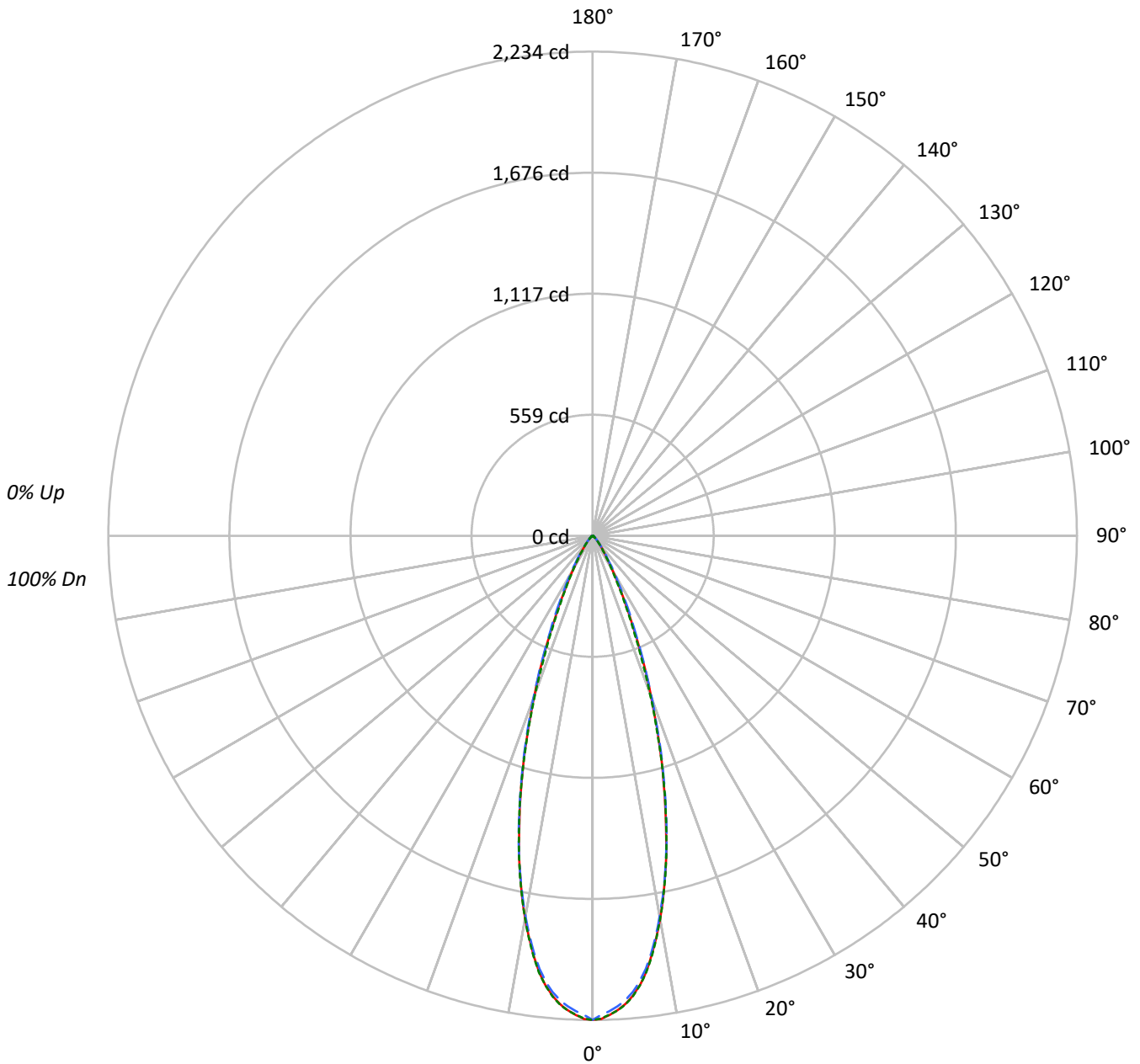
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69																			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67																			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64																			

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

	0°	45°	90°
0°	1102121	1102121	1102121
5°	1054726	1046852	1056360
10°	898595	892934	899547
15°	662310	666600	664455
20°	413457	421070	404321
25°	213554	229177	202830
30°	102372	117355	97587
35°	52880	58482	49447
40°	29626	31107	28080
45°	18001	18001	17373
50°	9364	11513	9364
55°	4817	7655	5247
60°	5526	5526	5526
65°	6070	6070	6070
70°	7501	6780	7501
75°	7244	7244	7244
80°	6535	6535	6535
85°	5095	5095	5095



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.2	23.0
10°-20°	352.9	42.2
20°-30°	191.3	22.9
30°-40°	61.4	7.3
40°-50°	20.9	2.5
50°-60°	7.3	0.9
60°-70°	5.3	0.6
70°-80°	3.9	0.5
80°-90°	1.1	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°	736.4	88.0
0°-40°	797.9	95.4
0°-60°	826.1	98.8
0°-90°	836.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	836.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2234	2234	2234	2234	2234	
5°	2130	2117	2114	2135	2133	193
15°	1297	1308	1305	1311	1301	352
25°	392	410	421	392	373	188
35°	88	92	97	88	82	59
45°	26	26	26	26	25	21
55°	6	7	9	7	6	6
65°	5	6	5	6	5	5
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°	2233.9	2233.9	2233.9	2233.9	2233.9
1°	2230.2	2214.2	2211.8	2232.5	2227.8
2°	2212.3	2197.3	2195.0	2215.6	2211.4
3°	2192.6	2179.0	2174.3	2195.9	2193.1
4°	2166.3	2153.7	2149.4	2171.0	2168.7
5°	2129.7	2116.6	2113.8	2134.9	2133.0
6°	2084.7	2073.9	2068.7	2089.8	2086.1
7°	2028.3	2018.5	2012.9	2028.3	2030.2
8°	1955.1	1950.4	1943.9	1959.4	1959.4
9°	1877.2	1873.0	1866.0	1880.0	1880.0
10°	1793.7	1790.9	1782.4	1795.6	1795.6
11°	1702.2	1700.8	1694.7	1705.5	1705.5
12°	1606.0	1609.3	1603.6	1613.0	1609.7
13°	1509.8	1508.4	1508.8	1515.9	1510.7
14°	1400.9	1409.3	1410.7	1415.0	1407.0
15°	1296.7	1307.5	1305.1	1311.2	1300.9
16°	1190.2	1202.4	1201.9	1203.3	1193.5
17°	1090.7	1097.7	1098.2	1096.8	1084.6
18°	984.6	994.5	994.5	992.1	977.6
19°	880.9	888.4	893.6	888.4	871.5
20°	787.5	792.7	802.0	788.9	770.1
21°	697.9	702.6	710.5	695.0	674.4
22°	612.0	618.1	625.6	607.8	586.2
23°	531.7	545.8	548.6	524.2	505.9
24°	458.0	474.0	478.7	453.8	434.6
25°	392.3	410.2	421.0	391.9	372.6
26°	335.6	352.9	366.1	337.0	318.7
27°	285.8	304.1	317.7	290.5	273.1
28°	243.1	260.9	275.0	249.7	233.2
29°	211.2	221.5	235.6	214.5	199.5
30°	179.7	191.0	206.0	184.4	171.3
32.5°	123.4	129.5	141.3	128.1	117.8
35°	87.8	91.5	97.1	88.2	82.1
37.5°	62.4	64.3	67.6	62.4	59.1
40°	46.0	46.9	48.3	45.5	43.6
42.5°	34.3	34.7	34.7	33.8	32.9
45°	25.8	26.3	25.8	25.8	24.9
47.5°	18.8	20.2	19.7	19.7	18.3
50°	12.2	15.0	15.0	14.5	12.2
52.5°	7.5	10.3	11.7	10.3	8.0
55°	5.6	7.0	8.9	7.0	6.1
57.5°	5.6	5.6	6.6	5.6	5.6
60°	5.6	5.6	5.6	5.6	5.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	5.2	5.2	5.2	5.2	5.2
70°	5.2	5.2	4.7	5.2	5.2
72.5°	4.7	4.7	4.2	4.7	4.2
75°	3.8	3.8	3.8	3.8	3.8
77.5°	2.8	2.8	2.8	2.8	2.8
80°	2.3	2.3	2.3	2.3	2.3
82.5°	1.4	1.4	1.4	1.9	1.4
85°	0.9	0.9	0.9	0.9	0.9
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°







62.5°	5.6	5.6	5.6	5.6	5.6
65°	5.2	5.6	5.2	5.6	5.2



(END OF REPORT)