

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: P283554

Luminaire Tested: **LDA2B108030D010 EU2B10FL408030 2LBALPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283554  
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: LDA2B108030D010 EU2B10FL408030 2LBALPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 865.5 lumens  
Efficiency: N/A  
Efficacy: 86.6 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

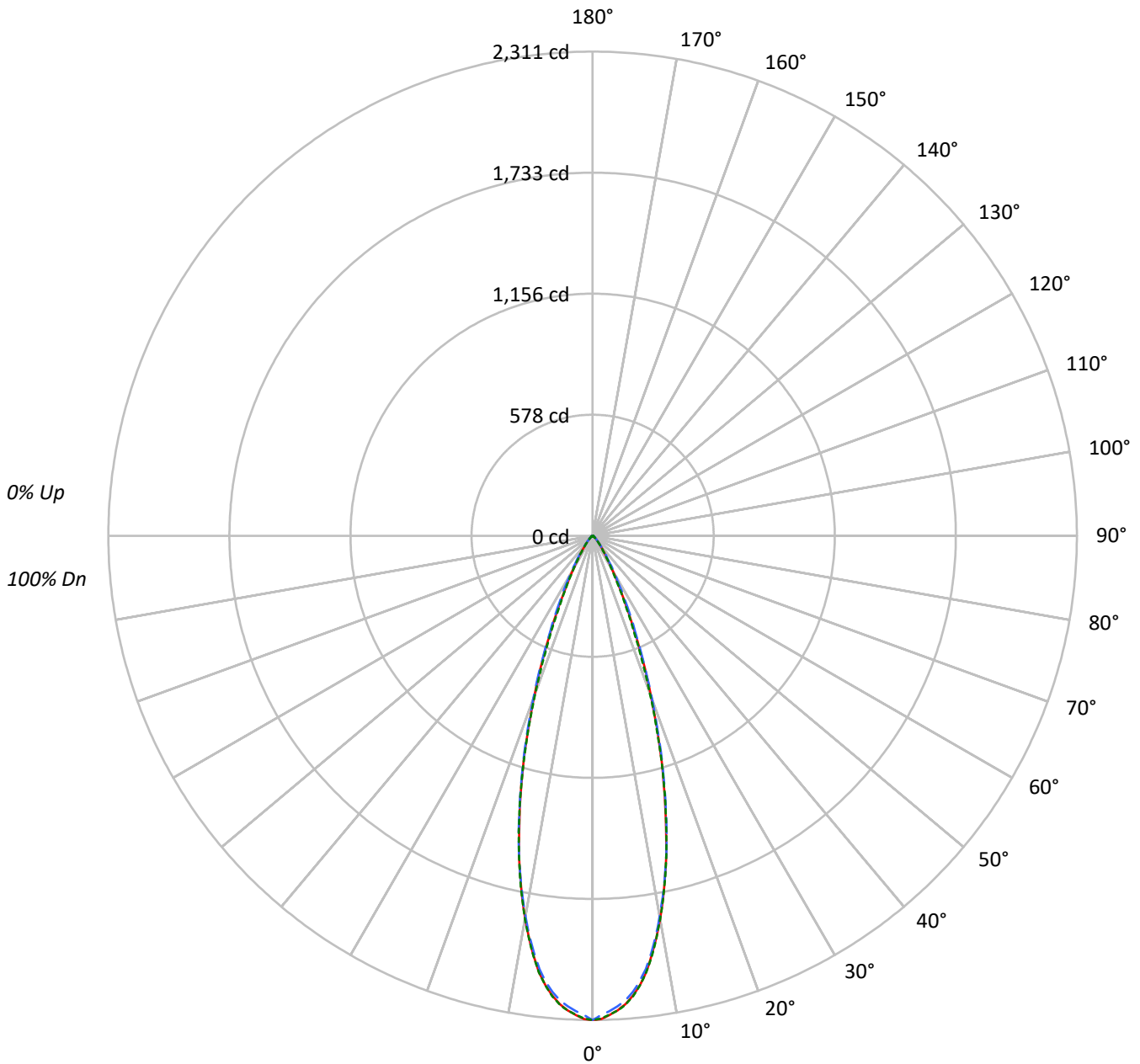
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
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°	1140356	1140356	1140356
5°	1091325	1083153	1093009
10°	929805	923944	930757
15°	685294	689738	687542
20°	427790	435718	418392
25°	221012	237125	209907
30°	105961	121457	100948
35°	54687	60529	51194
40°	30656	32202	29111
45°	18629	18629	17931
50°	9671	11897	9671
55°	4989	7913	5419
60°	5723	5723	5723
65°	6187	6187	6187
70°	7645	7068	7645
75°	7434	7434	7434
80°	6819	6819	6819
85°	5661	5661	5661



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.8	23.0
10°-20°	365.2	42.2
20°-30°	198.0	22.9
30°-40°	63.6	7.3
40°-50°	21.7	2.5
50°-60°	7.6	0.9
60°-70°	5.5	0.6
70°-80°	4.0	0.5
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°	762.0	88.0
0°-40°	825.6	95.4
0°-60°	854.8	98.8
0°-90°	865.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	865.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2311	2311	2311	2311	2311	
5°	2204	2190	2187	2209	2207	199
15°	1342	1353	1350	1357	1346	364
25°	406	424	436	406	386	195
35°	91	95	100	91	85	61
45°	27	27	27	27	26	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°	2311.4	2311.4	2311.4	2311.4	2311.4
1°	2307.6	2291.1	2288.6	2310.0	2305.1
2°	2289.1	2273.6	2271.1	2292.5	2288.1
3°	2268.7	2254.6	2249.8	2272.1	2269.2
4°	2241.5	2228.4	2224.0	2246.4	2244.0
5°	2203.6	2190.0	2187.1	2209.0	2207.0
6°	2157.0	2145.9	2140.5	2162.4	2158.5
7°	2098.8	2088.6	2082.7	2098.8	2100.7
8°	2023.0	2018.1	2011.3	2027.4	2027.4
9°	1942.4	1938.0	1930.7	1945.3	1945.3
10°	1856.0	1853.0	1844.3	1857.9	1857.9
11°	1761.3	1759.8	1753.5	1764.7	1764.7
12°	1661.7	1665.1	1659.3	1669.0	1665.6
13°	1562.2	1560.7	1561.2	1568.5	1563.1
14°	1449.5	1458.3	1459.7	1464.1	1455.8
15°	1341.7	1352.9	1350.4	1356.8	1346.1
16°	1231.5	1244.1	1243.6	1245.1	1234.9
17°	1128.5	1135.8	1136.3	1134.8	1122.2
18°	1018.8	1029.0	1029.0	1026.6	1011.5
19°	911.5	919.2	924.6	919.2	901.8
20°	814.8	820.2	829.9	816.3	796.9
21°	722.1	726.9	735.2	719.2	697.8
22°	633.2	639.5	647.3	628.9	606.5
23°	550.2	564.8	567.7	542.4	523.5
24°	473.9	490.5	495.3	469.6	449.7
25°	406.0	424.4	435.6	405.5	385.6
26°	347.2	365.2	378.8	348.7	329.7
27°	295.7	314.7	328.8	300.6	282.6
28°	251.5	270.0	284.6	258.3	241.3
29°	218.5	229.2	243.8	221.9	206.4
30°	186.0	197.6	213.2	190.8	177.2
32.5°	127.7	134.0	146.2	132.6	121.9
35°	90.8	94.7	100.5	91.3	85.0
37.5°	64.6	66.5	69.9	64.6	61.2
40°	47.6	48.6	50.0	47.1	45.2
42.5°	35.4	35.9	35.9	35.0	34.0
45°	26.7	27.2	26.7	26.7	25.7
47.5°	19.4	20.9	20.4	20.4	18.9
50°	12.6	15.5	15.5	15.1	12.6
52.5°	7.8	10.7	12.1	10.7	8.3
55°	5.8	7.3	9.2	7.3	6.3
57.5°	5.8	5.8	6.8	5.8	5.8
60°	5.8	5.8	5.8	5.8	5.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	5.3	5.3	5.3	5.3	5.3
70°	5.3	5.3	4.9	5.3	5.3
72.5°	4.9	4.9	4.4	4.9	4.4
75°	3.9	3.9	3.9	3.9	3.9
77.5°	2.9	2.9	2.9	2.9	2.9
80°	2.4	2.4	2.4	2.4	2.4
82.5°	1.5	1.5	1.5	1.9	1.5
85°	1.0	1.0	1.0	1.0	1.0
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°	5.8	5.8	5.8	5.8	5.8
65°	5.3	5.8	5.3	5.8	5.3



(END OF REPORT)