

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: P283599

Luminaire Tested: **LDA2B109040D010 EU2B10FL409040 2LBAPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283599  
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: LDA2B109040D010 EU2B10FL409040 2LBAPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MB  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 788.2 lumens  
Efficiency: N/A  
Efficacy: 78.8 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

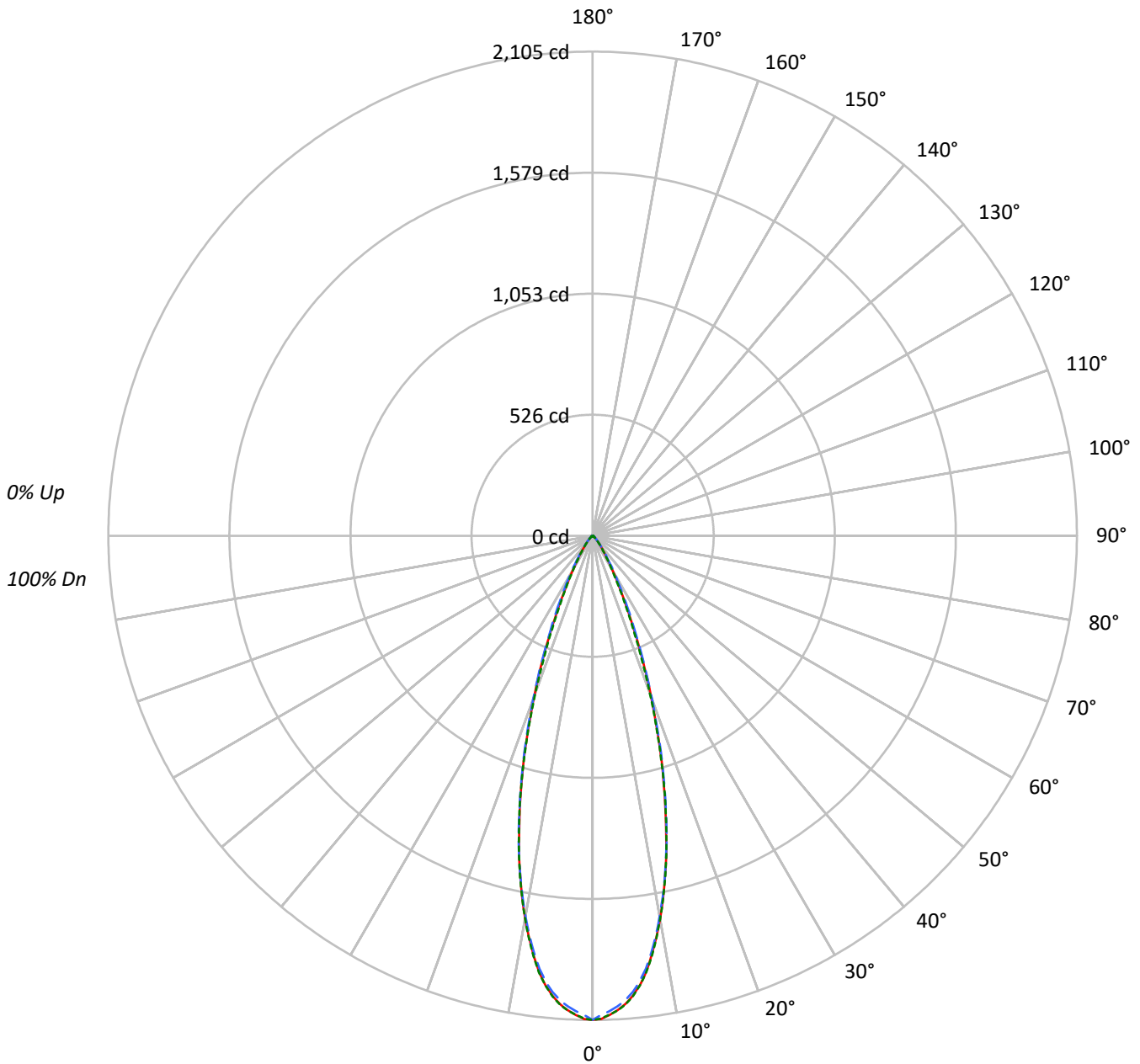
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20					20					20					20					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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95					95			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90					90			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86					86			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82					82			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79					79			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75					75			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72					72			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69					69			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67					67			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64					64			

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

	0°	45°	90°
0°	1038477	1038477	1038477
5°	993811	986382	995346
10°	846694	841384	847596
15°	624054	628140	626097
20°	389568	396761	380958
25°	201252	215949	191126
30°	96505	110576	91947
35°	49809	55109	46617
40°	27887	29304	26470
45°	16955	16955	16327
50°	8827	10899	8827
55°	4559	7225	4903
60°	5230	5230	5230
65°	5720	5720	5720
70°	7068	6347	7068
75°	6672	6672	6672
80°	6251	6251	6251
85°	5095	5095	5095



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.1	23.0
10°-20°	332.6	42.2
20°-30°	180.3	22.9
30°-40°	57.9	7.3
40°-50°	19.7	2.5
50°-60°	6.9	0.9
60°-70°	5.0	0.6
70°-80°	3.7	0.5
80°-90°	1.0	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°	693.9	88.0
0°-40°	751.8	95.4
0°-60°	778.4	98.8
0°-90°	788.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	788.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2105	2105	2105	2105	2105	
5°	2007	1994	1992	2012	2010	181
15°	1222	1232	1230	1236	1226	331
25°	370	386	397	369	351	177
35°	83	86	92	83	77	56
45°	24	25	24	24	23	19
55°	5	7	8	7	6	6
65°	5	5	5	5	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°	2104.9	2104.9	2104.9	2104.9	2104.9
1°	2101.3	2086.3	2084.1	2103.5	2099.1
2°	2084.5	2070.4	2068.2	2087.6	2083.6
3°	2066.0	2053.1	2048.7	2069.0	2066.4
4°	2041.2	2029.2	2025.3	2045.6	2043.4
5°	2006.7	1994.3	1991.7	2011.6	2009.8
6°	1964.2	1954.1	1949.2	1969.1	1965.6
7°	1911.2	1901.9	1896.6	1911.2	1912.9
8°	1842.2	1837.8	1831.6	1846.2	1846.2
9°	1768.8	1764.8	1758.2	1771.4	1771.4
10°	1690.1	1687.4	1679.5	1691.9	1691.9
11°	1603.9	1602.5	1596.8	1606.9	1606.9
12°	1513.2	1516.3	1511.0	1519.8	1516.7
13°	1422.6	1421.2	1421.7	1428.3	1423.4
14°	1320.0	1327.9	1329.2	1333.2	1325.7
15°	1221.8	1232.0	1229.8	1235.5	1225.8
16°	1121.4	1132.9	1132.5	1133.8	1124.5
17°	1027.7	1034.3	1034.7	1033.4	1021.9
18°	927.7	937.0	937.0	934.8	921.1
19°	830.0	837.1	841.9	837.1	821.2
20°	742.0	746.9	755.7	743.3	725.6
21°	657.5	662.0	669.5	654.9	635.4
22°	576.6	582.4	589.5	572.6	552.3
23°	501.0	514.3	516.9	493.9	476.7
24°	431.6	446.6	451.0	427.6	409.5
25°	369.7	386.5	396.7	369.2	351.1
26°	316.2	332.5	344.9	317.5	300.3
27°	269.3	286.5	299.4	273.7	257.4
28°	229.1	245.9	259.1	235.2	219.8
29°	199.0	208.7	222.0	202.1	187.9
30°	169.4	180.0	194.1	173.8	161.4
32.5°	116.3	122.0	133.1	120.7	111.0
35°	82.7	86.2	91.5	83.1	77.4
37.5°	58.8	60.6	63.7	58.8	55.7
40°	43.3	44.2	45.5	42.9	41.1
42.5°	32.3	32.7	32.7	31.8	31.0
45°	24.3	24.8	24.3	24.3	23.4
47.5°	17.7	19.0	18.6	18.6	17.2
50°	11.5	14.2	14.2	13.7	11.5
52.5°	7.1	9.7	11.1	9.7	7.5
55°	5.3	6.6	8.4	6.6	5.7
57.5°	5.3	5.3	6.2	5.3	5.3
60°	5.3	5.3	5.3	5.3	5.3



TEST NUMBER: P283599

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	4.9	4.9	4.9	4.9	4.9
70°	4.9	4.9	4.4	4.9	4.9
72.5°	4.4	4.4	4.0	4.4	4.0
75°	3.5	3.5	3.5	3.5	3.5
77.5°	2.7	2.7	2.7	2.7	2.7
80°	2.2	2.2	2.2	2.2	2.2
82.5°	1.3	1.3	1.3	1.8	1.3
85°	0.9	0.9	0.9	0.9	0.9
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°







62.5°	5.3	5.3	5.3	5.3	5.3
65°	4.9	5.3	4.9	5.3	4.9



(END OF REPORT)