

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: P283595

Luminaire Tested: **LDA2B109035D010 EU2B10FL409035 2LBALPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283595  
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: LDA2B109035D010 EU2B10FL409035 2LBALPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 752.5 lumens  
Efficiency: N/A  
Efficacy: 75.3 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

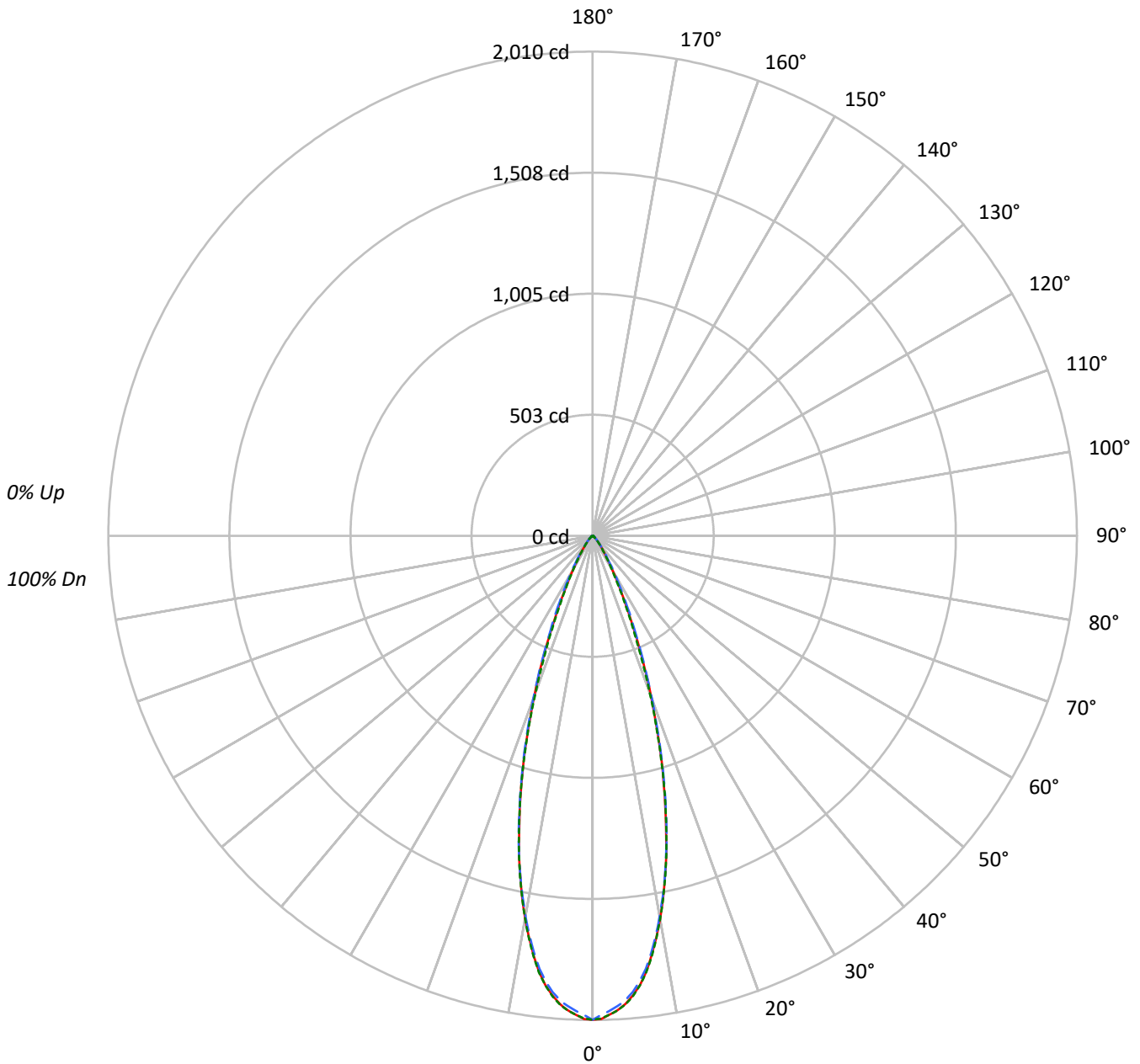
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	991509	991509	991509
5°	948842	941760	950328
10°	808370	803310	809221
15°	595808	599690	597749
20°	371980	378805	363737
25°	192161	206151	182471
30°	92118	105563	87788
35°	47580	52640	44509
40°	26663	28016	25311
45°	16187	16187	15629
50°	8443	10362	8443
55°	4387	6881	4731
60°	5032	5032	5032
65°	5370	5370	5370
70°	6635	6058	6635
75°	6481	6481	6481
80°	5966	5966	5966
85°	4529	4529	4529



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.9	23.0
10°-20°	317.5	42.2
20°-30°	172.1	22.9
30°-40°	55.3	7.3
40°-50°	18.8	2.5
50°-60°	6.6	0.9
60°-70°	4.8	0.6
70°-80°	3.5	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°	662.5	88.0
0°-40°	717.8	95.4
0°-60°	743.2	98.8
0°-90°	752.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	752.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2010	2010	2010	2010	2010	
5°	1916	1904	1902	1921	1919	173
15°	1166	1176	1174	1180	1170	316
25°	353	369	379	352	335	169
35°	79	82	87	79	74	53
45°	23	24	23	23	22	18
55°	5	6	8	6	6	6
65°	5	5	5	5	5	5
75°	3	3	3	3	3	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°	2009.7	2009.7	2009.7	2009.7	2009.7
1°	2006.3	1991.9	1989.8	2008.4	2004.2
2°	1990.2	1976.7	1974.6	1993.2	1989.4
3°	1972.5	1960.3	1956.0	1975.5	1972.9
4°	1948.9	1937.5	1933.7	1953.1	1951.0
5°	1915.9	1904.1	1901.6	1920.6	1918.9
6°	1875.4	1865.7	1861.1	1880.1	1876.7
7°	1824.7	1815.9	1810.8	1824.7	1826.4
8°	1758.9	1754.7	1748.7	1762.7	1762.7
9°	1688.8	1685.0	1678.7	1691.3	1691.3
10°	1613.6	1611.1	1603.5	1615.3	1615.3
11°	1531.3	1530.1	1524.6	1534.3	1534.3
12°	1444.8	1447.7	1442.7	1451.1	1448.1
13°	1358.2	1356.9	1357.4	1363.7	1359.1
14°	1260.3	1267.9	1269.1	1272.9	1265.8
15°	1166.5	1176.2	1174.1	1179.6	1170.3
16°	1070.7	1081.7	1081.3	1082.5	1073.7
17°	981.2	987.5	987.9	986.7	975.7
18°	885.8	894.6	894.6	892.5	879.4
19°	792.5	799.2	803.9	799.2	784.0
20°	708.5	713.1	721.5	709.7	692.8
21°	627.8	632.0	639.2	625.3	606.7
22°	550.5	556.0	562.8	546.7	527.3
23°	478.4	491.0	493.6	471.6	455.1
24°	412.1	426.4	430.6	408.3	391.0
25°	353.0	369.0	378.7	352.5	335.2
26°	301.9	317.5	329.3	303.1	286.7
27°	257.1	273.6	285.8	261.3	245.7
28°	218.7	234.7	247.4	224.6	209.8
29°	190.0	199.3	211.9	192.9	179.4
30°	161.7	171.8	185.3	165.9	154.1
32.5°	111.0	116.5	127.1	115.3	106.0
35°	79.0	82.3	87.4	79.4	73.9
37.5°	56.2	57.8	60.8	56.2	53.2
40°	41.4	42.2	43.5	41.0	39.3
42.5°	30.8	31.2	31.2	30.4	29.6
45°	23.2	23.6	23.2	23.2	22.4
47.5°	16.9	18.2	17.7	17.7	16.5
50°	11.0	13.5	13.5	13.1	11.0
52.5°	6.8	9.3	10.6	9.3	7.2
55°	5.1	6.3	8.0	6.3	5.5
57.5°	5.1	5.1	5.9	5.1	5.1
60°	5.1	5.1	5.1	5.1	5.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	4.6	4.6	4.6	4.6	4.6
70°	4.6	4.6	4.2	4.6	4.6
72.5°	4.2	4.2	3.8	4.2	3.8
75°	3.4	3.4	3.4	3.4	3.4
77.5°	2.5	2.5	2.5	2.5	2.5
80°	2.1	2.1	2.1	2.1	2.1
82.5°	1.3	1.3	1.3	1.7	1.3
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°







62.5°	5.1	5.1	5.1	5.1	5.1
65°	4.6	5.1	4.6	5.1	4.6



(END OF REPORT)