

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: P283598

Luminaire Tested: **LDA2B109040D010 EU2B10FL409040 2LBAPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283598  
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 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: 814.3 lumens  
Efficiency: N/A  
Efficacy: 81.4 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

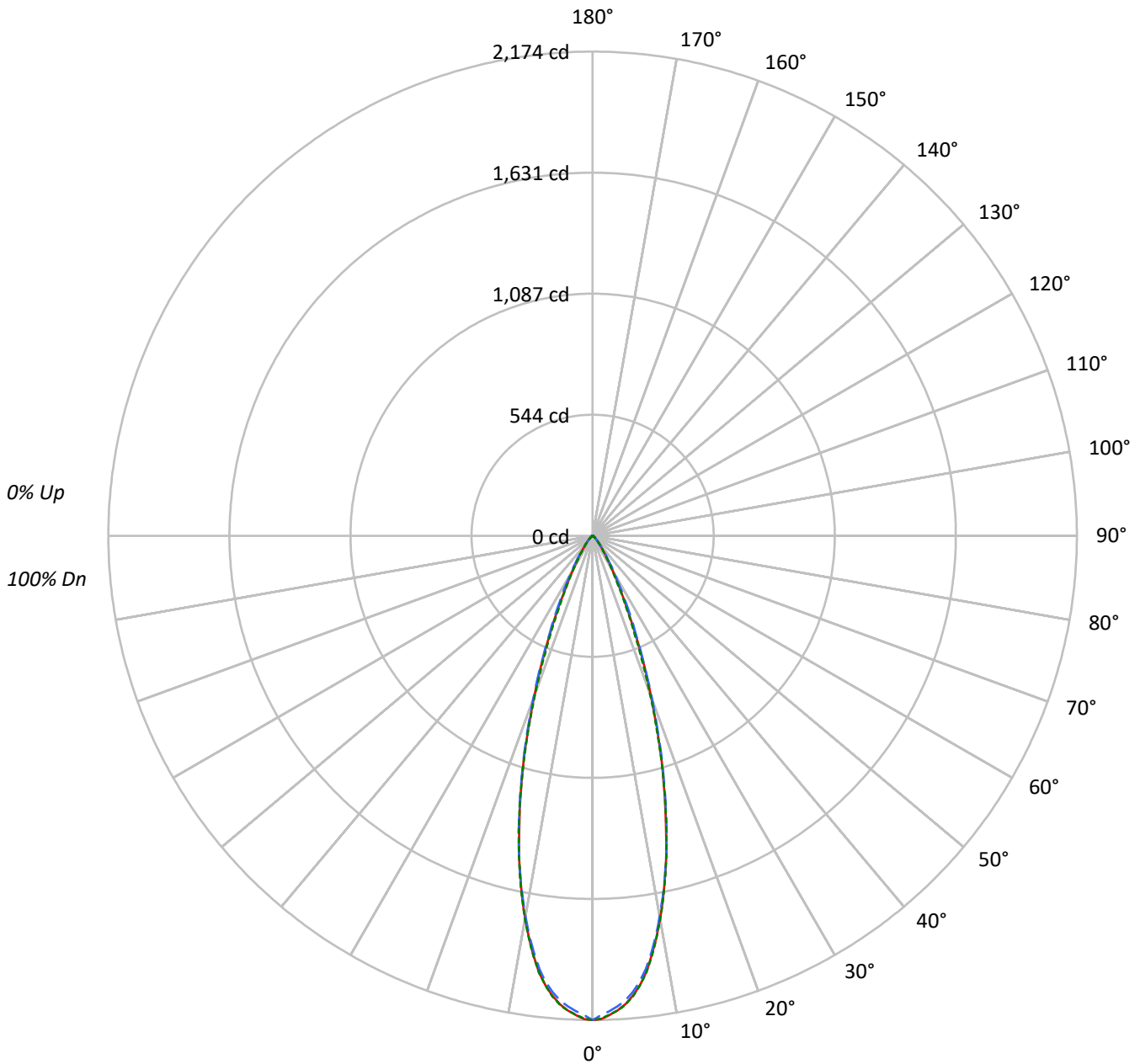
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1072766	1072766	1072766
5°	1026646	1018969	1028230
10°	874648	869188	875600
15°	644688	648877	646783
20°	402431	409887	393558
25°	207893	223081	197441
30°	99695	114222	94967
35°	51435	56976	48122
40°	28853	30334	27372
45°	17513	17513	16885
50°	9134	11206	9134
55°	4731	7483	5075
60°	5427	5427	5427
65°	5837	5837	5837
70°	7212	6635	7212
75°	7053	7053	7053
80°	6535	6535	6535
85°	5095	5095	5095



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.0	23.0
10°-20°	343.5	42.2
20°-30°	186.3	22.9
30°-40°	59.8	7.3
40°-50°	20.4	2.5
50°-60°	7.1	0.9
60°-70°	5.2	0.6
70°-80°	3.8	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°	716.8	88.0
0°-40°	776.6	95.4
0°-60°	804.2	98.8
0°-90°	814.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	814.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2174	2174	2174	2174	2174	
5°	2073	2060	2058	2078	2076	187
15°	1262	1273	1270	1276	1266	342
25°	382	399	410	381	363	183
35°	85	89	95	86	80	58
45°	25	26	25	25	24	20
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°	2174.4	2174.4	2174.4	2174.4	2174.4
1°	2170.8	2155.2	2152.9	2173.0	2168.5
2°	2153.4	2138.8	2136.5	2156.6	2152.5
3°	2134.2	2121.0	2116.4	2137.4	2134.7
4°	2108.6	2096.3	2092.2	2113.2	2110.9
5°	2073.0	2060.2	2057.5	2078.0	2076.2
6°	2029.2	2018.6	2013.6	2034.2	2030.5
7°	1974.3	1964.7	1959.3	1974.3	1976.2
8°	1903.1	1898.5	1892.1	1907.2	1907.2
9°	1827.2	1823.1	1816.3	1830.0	1830.0
10°	1745.9	1743.2	1735.0	1747.8	1747.8
11°	1656.9	1655.5	1649.5	1660.0	1660.0
12°	1563.2	1566.4	1560.9	1570.1	1566.9
13°	1469.6	1468.2	1468.6	1475.5	1470.5
14°	1363.6	1371.8	1373.2	1377.3	1369.5
15°	1262.2	1272.7	1270.4	1276.3	1266.3
16°	1158.5	1170.3	1169.9	1171.3	1161.7
17°	1061.6	1068.5	1068.9	1067.6	1055.7
18°	958.4	968.0	968.0	965.7	951.5
19°	857.4	864.7	869.8	864.7	848.3
20°	766.5	771.6	780.7	767.9	749.6
21°	679.3	683.8	691.6	676.5	656.4
22°	595.7	601.6	608.9	591.6	570.6
23°	517.6	531.3	534.0	510.3	492.4
24°	445.8	461.4	465.9	441.7	423.0
25°	381.9	399.3	409.8	381.4	362.7
26°	326.6	343.5	356.3	328.0	310.2
27°	278.2	296.0	309.3	282.8	265.9
28°	236.6	254.0	267.7	243.0	227.0
29°	205.6	215.6	229.3	208.8	194.1
30°	175.0	185.9	200.5	179.5	166.7
32.5°	120.1	126.1	137.5	124.7	114.7
35°	85.4	89.1	94.6	85.9	79.9
37.5°	60.8	62.6	65.8	60.8	57.6
40°	44.8	45.7	47.1	44.3	42.5
42.5°	33.3	33.8	33.8	32.9	32.0
45°	25.1	25.6	25.1	25.1	24.2
47.5°	18.3	19.6	19.2	19.2	17.8
50°	11.9	14.6	14.6	14.2	11.9
52.5°	7.3	10.0	11.4	10.0	7.8
55°	5.5	6.9	8.7	6.9	5.9
57.5°	5.5	5.5	6.4	5.5	5.5
60°	5.5	5.5	5.5	5.5	5.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	5.0	5.0	5.0	5.0	5.0
70°	5.0	5.0	4.6	5.0	5.0
72.5°	4.6	4.6	4.1	4.6	4.1
75°	3.7	3.7	3.7	3.7	3.7
77.5°	2.7	2.7	2.7	2.7	2.7
80°	2.3	2.3	2.3	2.3	2.3
82.5°	1.4	1.4	1.4	1.8	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°	5.5	5.5	5.5	5.5	5.5
65°	5.0	5.5	5.0	5.5	5.0



(END OF REPORT)