

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: P283469

Luminaire Tested: **LDA2B058030D010 EU2B05FL408030 2LBALPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283469  
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: LDA2B058030D010 EU2B05FL408030 2LBALPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 500 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: 661.5 lumens  
Efficiency: N/A  
Efficacy: 94.5 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

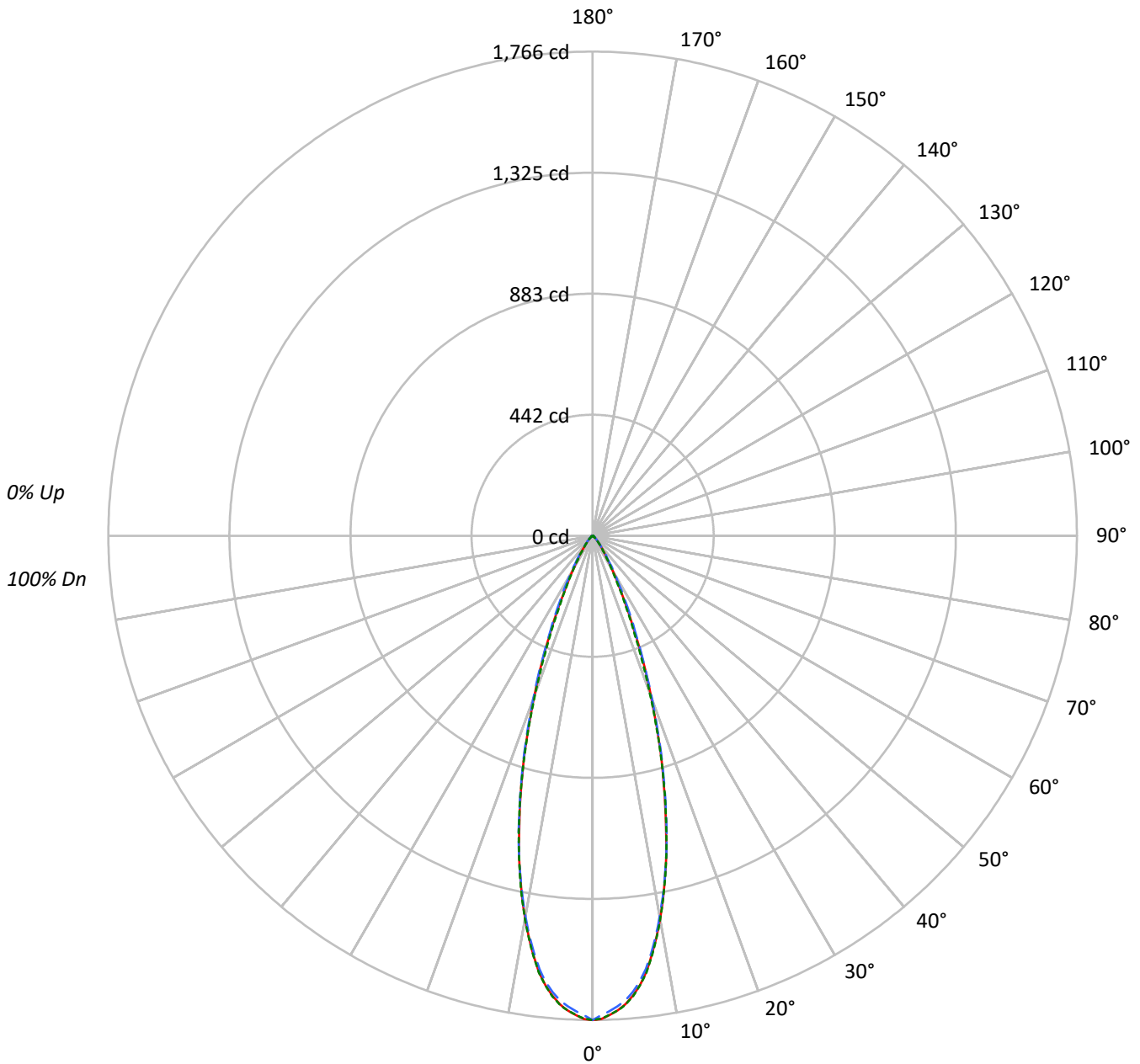
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	871524	871524	871524
5°	834044	827804	835332
10°	710580	706121	711331
15°	523739	527161	525425
20°	326933	332971	319740
25°	168916	181219	160424
30°	80952	92802	77192
35°	41798	46255	39088
40°	23443	24602	22219
45°	14233	14233	13745
50°	7368	9134	7368
55°	3871	6107	4129
60°	4440	4440	4440
65°	4786	4786	4786
70°	5914	5337	5914
75°	5719	5719	5719
80°	5398	5398	5398
85°	3962	3962	3962



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.9	23.0
10°-20°	279.1	42.2
20°-30°	151.3	22.9
30°-40°	48.6	7.3
40°-50°	16.6	2.5
50°-60°	5.8	0.9
60°-70°	4.3	0.6
70°-80°	3.1	0.5
80°-90°	0.9	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°	582.4	88.0
0°-40°	630.9	95.4
0°-60°	653.3	98.8
0°-90°	661.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	661.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1766	1766	1766	1766	1766	
5°	1684	1674	1672	1688	1687	152
15°	1025	1034	1032	1037	1029	278
25°	310	324	333	310	295	149
35°	69	72	77	70	65	47
45°	20	21	20	20	20	16
55°	4	6	7	6	5	5
65°	4	4	4	4	4	4
75°	3	3	3	3	3	3
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°	1766.5	1766.5	1766.5	1766.5	1766.5
1°	1763.5	1750.9	1749.1	1765.4	1761.7
2°	1749.4	1737.6	1735.7	1752.0	1748.7
3°	1733.9	1723.1	1719.4	1736.5	1734.2
4°	1713.1	1703.1	1699.7	1716.8	1714.9
5°	1684.1	1673.7	1671.5	1688.2	1686.7
6°	1648.5	1640.0	1635.9	1652.6	1649.6
7°	1604.0	1596.2	1591.7	1604.0	1605.4
8°	1546.1	1542.4	1537.2	1549.4	1549.4
9°	1484.5	1481.1	1475.6	1486.7	1486.7
10°	1418.4	1416.2	1409.5	1419.9	1419.9
11°	1346.0	1344.9	1340.1	1348.6	1348.6
12°	1270.0	1272.6	1268.1	1275.5	1272.9
13°	1193.9	1192.8	1193.1	1198.7	1194.6
14°	1107.8	1114.5	1115.6	1118.9	1112.6
15°	1025.4	1033.9	1032.1	1036.9	1028.7
16°	941.1	950.8	950.4	951.5	943.7
17°	862.5	868.0	868.4	867.3	857.6
18°	778.6	786.4	786.4	784.5	773.0
19°	696.6	702.5	706.6	702.5	689.2
20°	622.7	626.8	634.2	623.8	609.0
21°	551.8	555.6	561.9	549.6	533.3
22°	483.9	488.8	494.7	480.6	463.5
23°	420.5	431.6	433.8	414.5	400.1
24°	362.2	374.8	378.5	358.9	343.7
25°	310.3	324.4	332.9	309.9	294.7
26°	265.3	279.1	289.5	266.5	252.0
27°	226.0	240.5	251.2	229.7	216.0
28°	192.2	206.3	217.5	197.4	184.4
29°	167.0	175.2	186.3	169.6	157.7
30°	142.1	151.0	162.9	145.8	135.5
32.5°	97.6	102.4	111.7	101.3	93.2
35°	69.4	72.4	76.8	69.8	64.9
37.5°	49.4	50.8	53.4	49.4	46.8
40°	36.4	37.1	38.2	36.0	34.5
42.5°	27.1	27.5	27.5	26.7	26.0
45°	20.4	20.8	20.4	20.4	19.7
47.5°	14.8	16.0	15.6	15.6	14.5
50°	9.6	11.9	11.9	11.5	9.6
52.5°	5.9	8.2	9.3	8.2	6.3
55°	4.5	5.6	7.1	5.6	4.8
57.5°	4.5	4.5	5.2	4.5	4.5
60°	4.5	4.5	4.5	4.5	4.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	4.1	4.1	4.1	4.1	4.1
70°	4.1	4.1	3.7	4.1	4.1
72.5°	3.7	3.7	3.3	3.7	3.3
75°	3.0	3.0	3.0	3.0	3.0
77.5°	2.2	2.2	2.2	2.2	2.2
80°	1.9	1.9	1.9	1.9	1.9
82.5°	1.1	1.1	1.1	1.5	1.1
85°	0.7	0.7	0.7	0.7	0.7
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°	4.5	4.5	4.5	4.5	4.5
65°	4.1	4.5	4.1	4.5	4.1



(END OF REPORT)