

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: P283532

Luminaire Tested: **LDA2B059730D010 EU2B05FL409730 2LBAPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283532  
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: LDA2B059730D010 EU2B05FL409730 2LBAPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MW  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 518.9 lumens  
Efficiency: N/A  
Efficacy: 74.1 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

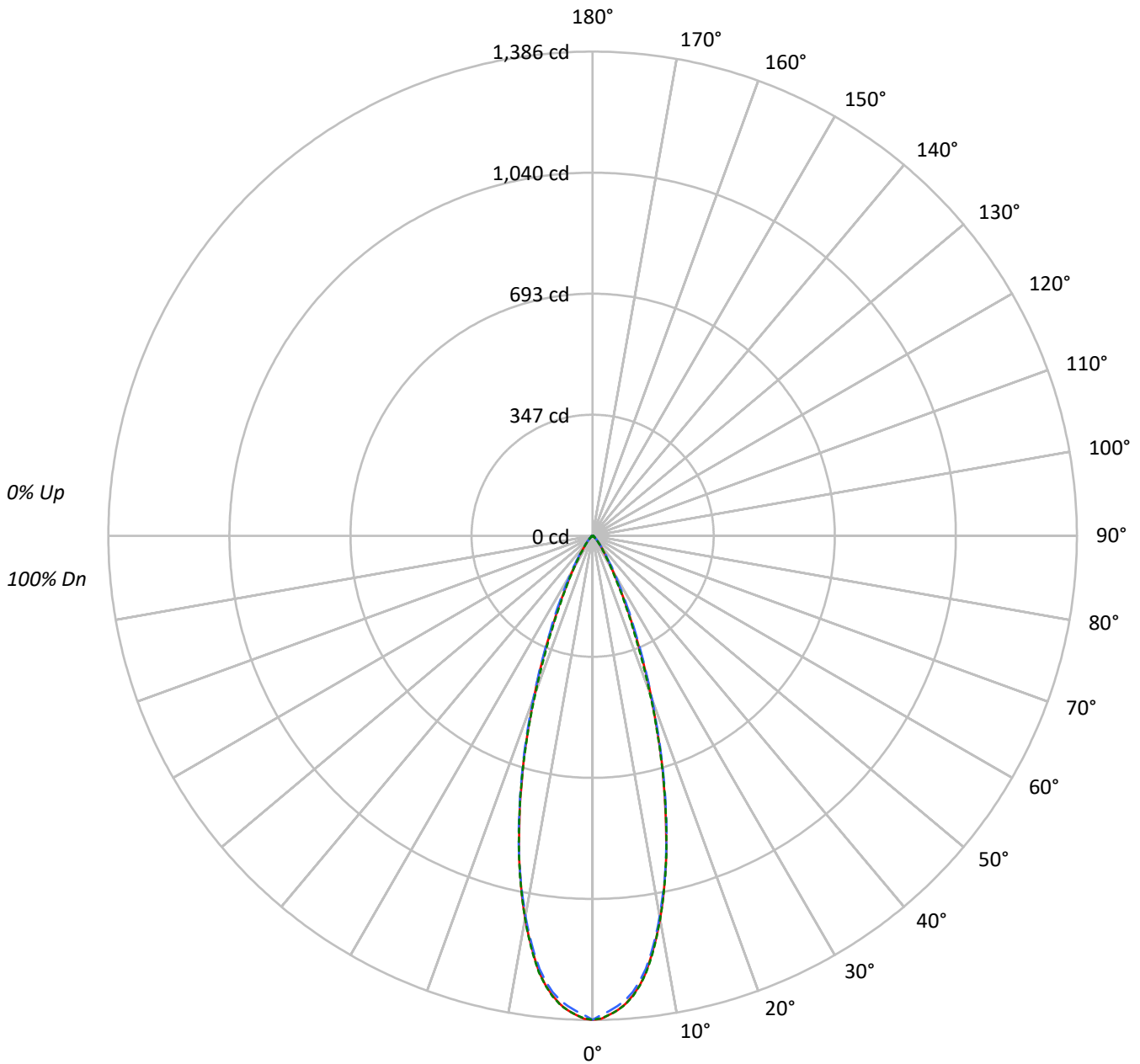
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	683602	683602	683602
5°	654220	649317	655211
10°	557382	553875	557933
15°	410809	413465	412137
20°	256475	261200	250804
25°	132498	142134	125803
30°	63520	72806	60558
35°	32764	36318	30656
40°	18355	19321	17453
45°	11164	11164	10745
50°	5833	7138	5833
55°	3011	4731	3269
60°	3454	3454	3454
65°	3736	3736	3736
70°	4616	4183	4616
75°	4384	4384	4384
80°	4262	4262	4262
85°	3396	3396	3396



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.2	23.0
10°-20°	218.9	42.2
20°-30°	118.7	22.9
30°-40°	38.1	7.3
40°-50°	13.0	2.5
50°-60°	4.6	0.9
60°-70°	3.3	0.6
70°-80°	2.4	0.5
80°-90°	0.7	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°	456.8	88.0
0°-40°	494.9	95.4
0°-60°	512.4	98.8
0°-90°	518.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	518.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1386	1386	1386	1386	1386	
5°	1321	1313	1311	1324	1323	119
15°	804	811	810	813	807	218
25°	243	254	261	243	231	117
35°	54	57	60	55	51	37
45°	16	16	16	16	15	13
55°	4	4	6	4	4	4
65°	3	4	3	4	3	3
75°	2	2	2	2	2	2
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°	1385.6	1385.6	1385.6	1385.6	1385.6
1°	1383.3	1373.4	1372.0	1384.8	1381.8
2°	1372.2	1362.9	1361.5	1374.3	1371.7
3°	1360.0	1351.6	1348.7	1362.1	1360.3
4°	1343.7	1335.9	1333.2	1346.6	1345.2
5°	1321.0	1312.9	1311.1	1324.2	1323.0
6°	1293.1	1286.4	1283.2	1296.3	1293.9
7°	1258.1	1252.0	1248.5	1258.1	1259.3
8°	1212.7	1209.8	1205.7	1215.3	1215.3
9°	1164.4	1161.8	1157.4	1166.1	1166.1
10°	1112.6	1110.8	1105.6	1113.7	1113.7
11°	1055.8	1054.9	1051.2	1057.9	1057.9
12°	996.1	998.2	994.7	1000.5	998.5
13°	936.5	935.6	935.9	940.3	937.0
14°	868.9	874.2	875.0	877.7	872.7
15°	804.3	811.0	809.5	813.3	806.9
16°	738.2	745.8	745.5	746.4	740.3
17°	676.5	680.9	681.2	680.3	672.7
18°	610.7	616.8	616.8	615.4	606.4
19°	546.4	551.1	554.3	551.1	540.6
20°	488.5	491.7	497.5	489.3	477.7
21°	432.9	435.8	440.7	431.1	418.3
22°	379.6	383.4	388.0	377.0	363.6
23°	329.8	338.5	340.3	325.2	313.8
24°	284.1	294.0	296.9	281.5	269.6
25°	243.4	254.4	261.1	243.1	231.1
26°	208.1	218.9	227.1	209.0	197.7
27°	177.3	188.6	197.1	180.2	169.4
28°	150.8	161.9	170.6	154.9	144.7
29°	131.0	137.4	146.1	133.0	123.7
30°	111.5	118.5	127.8	114.4	106.3
32.5°	76.6	80.3	87.6	79.5	73.1
35°	54.4	56.8	60.3	54.7	50.9
37.5°	38.7	39.9	41.9	38.7	36.7
40°	28.5	29.1	30.0	28.2	27.1
42.5°	21.3	21.5	21.5	21.0	20.4
45°	16.0	16.3	16.0	16.0	15.4
47.5°	11.6	12.5	12.2	12.2	11.4
50°	7.6	9.3	9.3	9.0	7.6
52.5°	4.7	6.4	7.3	6.4	4.9
55°	3.5	4.4	5.5	4.4	3.8
57.5°	3.5	3.5	4.1	3.5	3.5
60°	3.5	3.5	3.5	3.5	3.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	3.2	3.2	3.2	3.2	3.2
70°	3.2	3.2	2.9	3.2	3.2
72.5°	2.9	2.9	2.6	2.9	2.6
75°	2.3	2.3	2.3	2.3	2.3
77.5°	1.7	1.7	1.7	1.7	1.7
80°	1.5	1.5	1.5	1.5	1.5
82.5°	0.9	0.9	0.9	1.2	0.9
85°	0.6	0.6	0.6	0.6	0.6
87.5°	0.3	0.3	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180°    - - 45°-225°    - - - - 90°-270°







62.5°	3.5	3.5	3.5	3.5	3.5
65°	3.2	3.5	3.2	3.5	3.2



(END OF REPORT)