

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: P283630

Luminaire Tested: **LDA2B158027D010 EU2B15FL408027 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283630  
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: LDA2B158027D010 EU2B15FL408027 2LBAPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MMS

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1228.9 lumens  
Efficiency: N/A  
Efficacy: 87.2 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

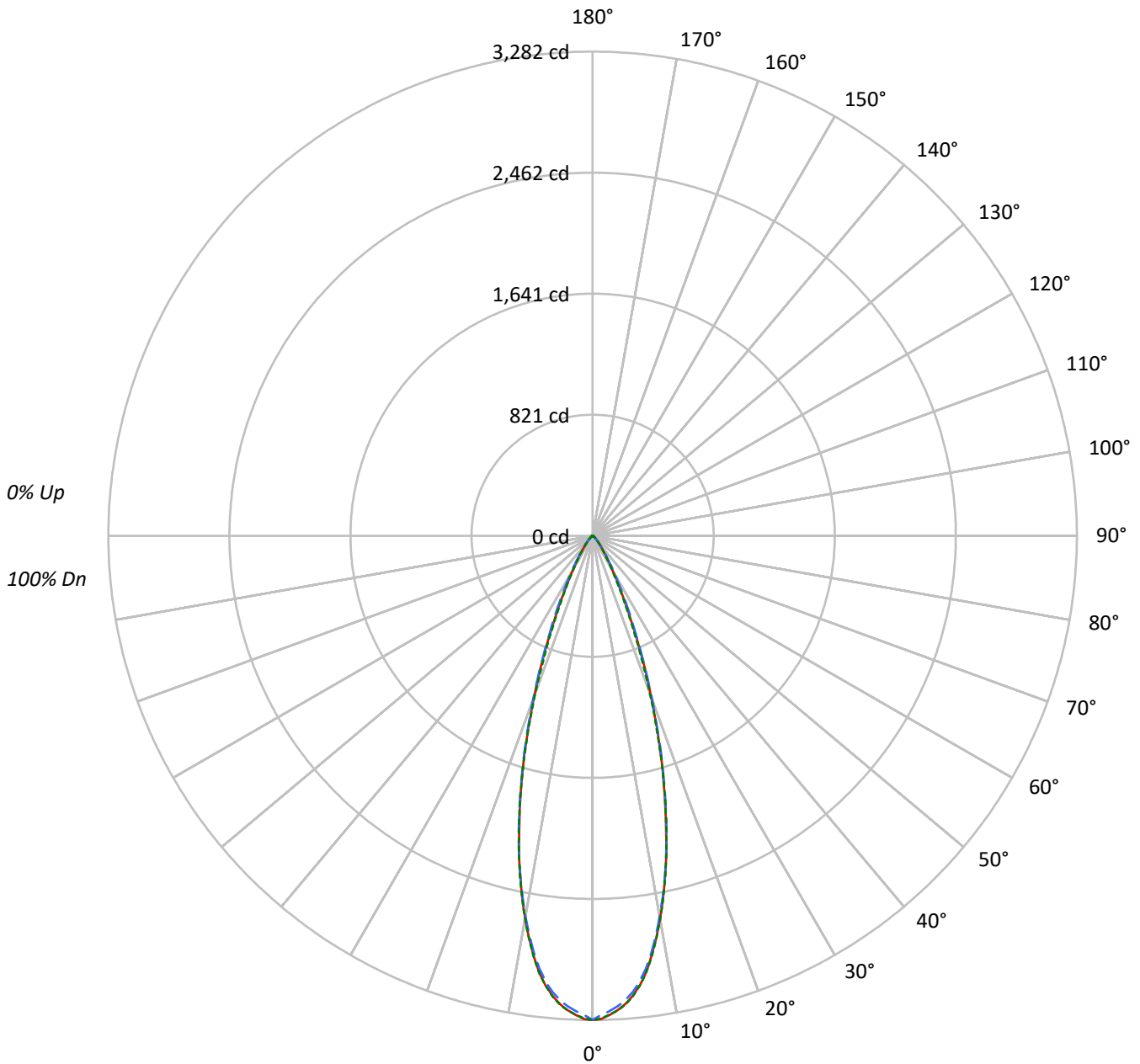
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1619164	1619164	1619164
5°	1549527	1537938	1551953
10°	1320163	1311847	1321516
15°	973009	979342	976175
20°	607401	618637	594013
25°	313772	336689	297985
30°	150454	172444	143390
35°	77634	85946	72696
40°	43537	45727	41283
45°	26444	26444	25467
50°	13739	16963	13739
55°	7139	11268	7741
60°	8190	8190	8190
65°	8872	8872	8872
70°	10963	9953	10963
75°	10484	10484	10484
80°	9660	9660	9660
85°	7925	7925	7925



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	282.3	23.0
10°-20°	518.5	42.2
20°-30°	281.1	22.9
30°-40°	90.2	7.3
40°-50°	30.8	2.5
50°-60°	10.8	0.9
60°-70°	7.9	0.6
70°-80°	5.7	0.5
80°-90°	1.7	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°	1081.9	88.0
0°-40°	1172.2	95.4
0°-60°	1213.7	98.8
0°-90°	1228.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1228.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3282	3282	3282	3282	3282	
5°	3129	3110	3105	3136	3134	283
15°	1905	1921	1917	1926	1911	516
25°	576	603	618	576	547	276
35°	129	134	143	130	121	87
45°	38	39	38	38	36	30
55°	8	10	13	10	9	9
65°	8	8	8	8	8	8
75°	6	6	6	6	6	6
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3281.9	3281.9	3281.9	3281.9	3281.9
1°	3276.4	3253.0	3249.5	3279.8	3273.0
2°	3250.2	3228.1	3224.7	3255.0	3248.8
3°	3221.2	3201.2	3194.4	3226.1	3221.9
4°	3182.6	3164.0	3157.8	3189.5	3186.1
5°	3128.8	3109.5	3105.4	3136.4	3133.7
6°	3062.7	3046.8	3039.2	3070.2	3064.7
7°	2979.9	2965.4	2957.2	2979.9	2982.7
8°	2872.4	2865.5	2855.8	2878.6	2878.6
9°	2757.9	2751.7	2741.4	2762.0	2762.0
10°	2635.2	2631.0	2618.6	2637.9	2637.9
11°	2500.7	2498.7	2489.7	2505.6	2505.6
12°	2359.4	2364.2	2355.9	2369.7	2364.9
13°	2218.0	2216.0	2216.7	2227.0	2219.4
14°	2058.1	2070.5	2072.6	2078.8	2067.1
15°	1905.0	1920.9	1917.4	1926.4	1911.2
16°	1748.5	1766.4	1765.8	1767.8	1753.3
17°	1602.3	1612.7	1613.4	1611.3	1593.4
18°	1446.5	1461.0	1461.0	1457.6	1436.2
19°	1294.1	1305.2	1312.8	1305.2	1280.4
20°	1156.9	1164.5	1178.3	1159.0	1131.4
21°	1025.3	1032.1	1043.9	1021.1	990.8
22°	899.1	908.0	919.1	892.9	861.2
23°	781.2	801.9	806.0	770.1	743.3
24°	672.9	696.4	703.3	666.7	638.5
25°	576.4	602.6	618.5	575.7	547.4
26°	493.0	518.5	537.8	495.0	468.2
27°	419.9	446.8	466.8	426.8	401.3
28°	357.1	383.3	404.0	366.8	342.7
29°	310.3	325.4	346.1	315.1	293.0
30°	264.1	280.6	302.7	271.0	251.7
32.5°	181.3	190.3	207.5	188.2	173.1
35°	128.9	134.4	142.7	129.6	120.7
37.5°	91.7	94.5	99.3	91.7	86.9
40°	67.6	68.9	71.0	66.9	64.1
42.5°	50.3	51.0	51.0	49.6	48.3
45°	37.9	38.6	37.9	37.9	36.5
47.5°	27.6	29.6	29.0	29.0	26.9
50°	17.9	22.1	22.1	21.4	17.9
52.5°	11.0	15.2	17.2	15.2	11.7
55°	8.3	10.3	13.1	10.3	9.0
57.5°	8.3	8.3	9.7	8.3	8.3
60°	8.3	8.3	8.3	8.3	8.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	7.6	7.6	7.6	7.6	7.6
70°	7.6	7.6	6.9	7.6	7.6
72.5°	6.9	6.9	6.2	6.9	6.2
75°	5.5	5.5	5.5	5.5	5.5
77.5°	4.1	4.1	4.1	4.1	4.1
80°	3.4	3.4	3.4	3.4	3.4
82.5°	2.1	2.1	2.1	2.8	2.1
85°	1.4	1.4	1.4	1.4	1.4
87.5°	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	8.3	8.3	8.3	8.3	8.3
65°	7.6	8.3	7.6	8.3	7.6



(END OF REPORT)