

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: P283651

Luminaire Tested: **LDA2B158040D010 EU2B15FL408040 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283651  
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: LDA2B158040D010 EU2B15FL408040 2LBALPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1230.8 lumens  
Efficiency: N/A  
Efficacy: 87.3 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

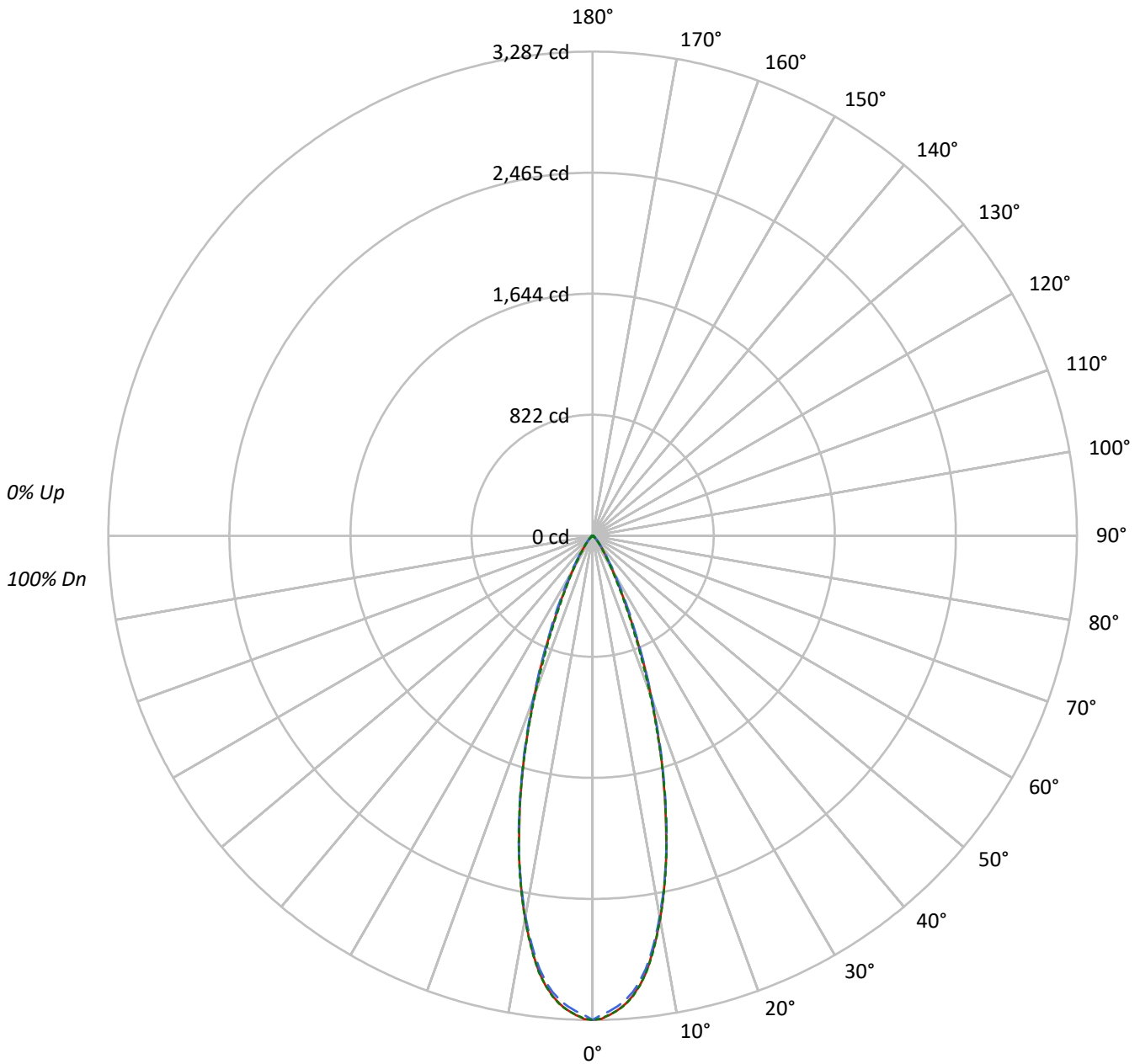
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1621631	1621631	1621631
5°	1551904	1540266	1554281
10°	1322167	1313851	1323520
15°	974490	980823	977657
20°	608346	619582	594905
25°	314262	337179	298475
30°	150682	172672	143561
35°	77755	86066	72756
40°	43601	45791	41347
45°	26513	26513	25537
50°	13816	16963	13816
55°	7139	11268	7741
60°	8190	8190	8190
65°	8872	8872	8872
70°	10963	9953	10963
75°	10484	10484	10484
80°	9944	9944	9944
85°	7925	7925	7925



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	282.7	23.0
10°-20°	519.3	42.2
20°-30°	281.5	22.9
30°-40°	90.4	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°	1083.6	88.0
0°-40°	1173.9	95.4
0°-60°	1215.6	98.8
0°-90°	1230.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1230.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3287	3287	3287	3287	3287	
5°	3134	3114	3110	3141	3138	283
15°	1908	1924	1920	1929	1914	517
25°	577	604	619	577	548	277
35°	129	135	143	130	121	87
45°	38	39	38	38	37	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°	3286.9	3286.9	3286.9	3286.9	3286.9
1°	3281.3	3257.9	3254.4	3284.8	3277.9
2°	3255.1	3233.0	3229.6	3259.9	3253.7
3°	3226.1	3206.1	3199.2	3230.9	3226.8
4°	3187.4	3168.8	3162.6	3194.3	3190.9
5°	3133.6	3114.2	3110.1	3141.2	3138.4
6°	3067.3	3051.4	3043.8	3074.9	3069.4
7°	2984.4	2969.9	2961.6	2984.4	2987.2
8°	2876.7	2869.8	2860.1	2882.9	2882.9
9°	2762.1	2755.9	2745.5	2766.2	2766.2
10°	2639.2	2635.0	2622.6	2641.9	2641.9
11°	2504.5	2502.4	2493.5	2509.3	2509.3
12°	2363.0	2367.8	2359.5	2373.3	2368.5
13°	2221.4	2219.3	2220.0	2230.4	2222.8
14°	2061.2	2073.6	2075.7	2081.9	2070.2
15°	1907.9	1923.8	1920.3	1929.3	1914.1
16°	1751.2	1769.1	1768.4	1770.5	1756.0
17°	1604.8	1615.1	1615.8	1613.7	1595.8
18°	1448.7	1463.2	1463.2	1459.8	1438.4
19°	1296.1	1307.2	1314.7	1307.2	1282.3
20°	1158.7	1166.3	1180.1	1160.8	1133.1
21°	1026.8	1033.7	1045.4	1022.7	992.3
22°	900.4	909.4	920.5	894.2	862.5
23°	782.4	803.1	807.2	771.3	744.4
24°	673.9	697.4	704.3	667.7	639.4
25°	577.3	603.5	619.4	576.6	548.3
26°	493.7	519.3	538.6	495.8	468.9
27°	420.5	447.5	467.5	427.4	401.9
28°	357.7	383.9	404.6	367.4	343.2
29°	310.7	325.9	346.6	315.6	293.5
30°	264.5	281.0	303.1	271.4	252.0
32.5°	181.6	190.6	207.8	188.5	173.3
35°	129.1	134.7	142.9	129.8	120.8
37.5°	91.8	94.6	99.4	91.8	87.0
40°	67.7	69.1	71.1	67.0	64.2
42.5°	50.4	51.1	51.1	49.7	48.3
45°	38.0	38.7	38.0	38.0	36.6
47.5°	27.6	29.7	29.0	29.0	26.9
50°	18.0	22.1	22.1	21.4	18.0
52.5°	11.0	15.2	17.3	15.2	11.7
55°	8.3	10.4	13.1	10.4	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°	3.5	3.5	3.5	3.5	3.5
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)