

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: P283632

Luminaire Tested: **LDA2B158027D010 EU2B15FL408027 2LBALPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283632  
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 2LBALPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1129.9 lumens  
Efficiency: N/A  
Efficacy: 80.1 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

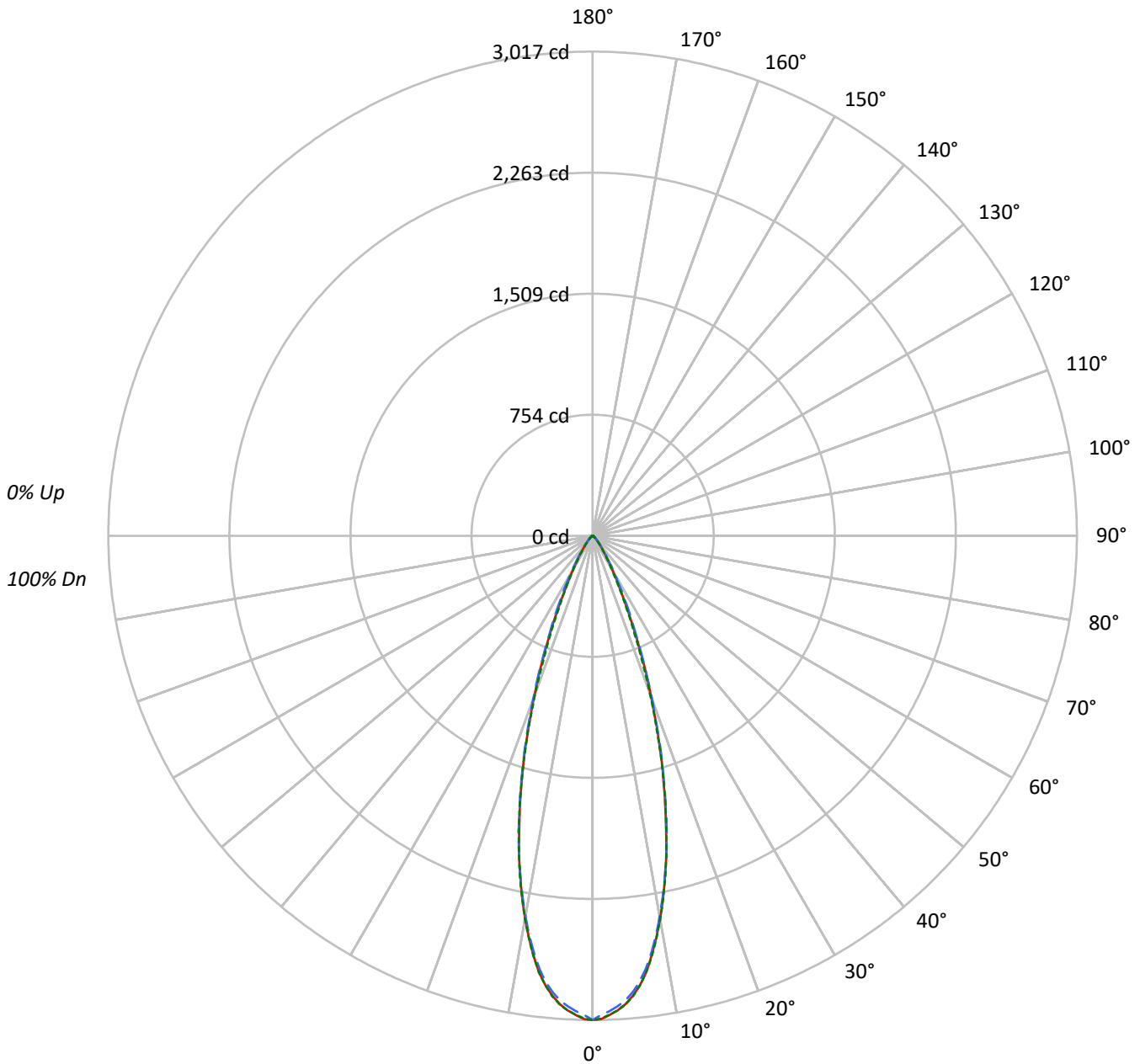
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1488670	1488670	1488670
5°	1424675	1413978	1426854
10°	1213757	1206142	1215009
15°	894606	900429	897518
20°	558469	568812	546131
25°	288513	309526	273979
30°	138320	158543	131825
35°	71371	79020	66793
40°	39995	42056	37998
45°	24350	24350	23443
50°	12664	15581	12664
55°	6537	10322	7053
60°	7499	7499	7499
65°	8172	8172	8172
70°	10097	9088	10097
75°	9722	9722	9722
80°	9092	9092	9092
85°	7359	7359	7359



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	259.5	23.0
10°-20°	476.7	42.2
20°-30°	258.5	22.9
30°-40°	83.0	7.3
40°-50°	28.3	2.5
50°-60°	9.9	0.9
60°-70°	7.2	0.6
70°-80°	5.3	0.5
80°-90°	1.5	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°	994.7	88.0
0°-40°	1077.7	95.4
0°-60°	1115.9	98.8
0°-90°	1129.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1129.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3017	3017	3017	3017	3017	
5°	2877	2859	2855	2884	2881	260
15°	1752	1766	1763	1771	1757	475
25°	530	554	569	529	503	254
35°	118	124	131	119	111	80
45°	35	36	35	35	34	28
55°	8	10	12	10	8	8
65°	7	8	7	8	7	7
75°	5	5	5	5	5	5
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°	3017.4	3017.4	3017.4	3017.4	3017.4
1°	3012.4	2990.8	2987.6	3015.5	3009.2
2°	2988.3	2968.0	2964.8	2992.7	2987.0
3°	2961.6	2943.3	2936.9	2966.1	2962.3
4°	2926.1	2909.0	2903.3	2932.5	2929.3
5°	2876.7	2858.9	2855.1	2883.7	2881.1
6°	2815.8	2801.3	2794.3	2822.8	2817.7
7°	2739.8	2726.5	2718.8	2739.8	2742.3
8°	2640.9	2634.5	2625.7	2646.6	2646.6
9°	2535.6	2529.9	2520.4	2539.5	2539.5
10°	2422.8	2419.0	2407.6	2425.3	2425.3
11°	2299.2	2297.3	2289.1	2303.6	2303.6
12°	2169.2	2173.7	2166.1	2178.8	2174.3
13°	2039.3	2037.4	2038.0	2047.5	2040.6
14°	1892.2	1903.6	1905.5	1911.2	1900.5
15°	1751.5	1766.1	1762.9	1771.2	1757.2
16°	1607.6	1624.1	1623.4	1625.4	1612.0
17°	1473.2	1482.7	1483.4	1481.5	1465.0
18°	1329.9	1343.3	1343.3	1340.1	1320.4
19°	1189.9	1200.0	1207.0	1200.0	1177.2
20°	1063.7	1070.7	1083.4	1065.6	1040.2
21°	942.6	949.0	959.7	938.8	910.9
22°	826.6	834.9	845.0	820.9	791.8
23°	718.2	737.2	741.0	708.1	683.4
24°	618.7	640.3	646.6	613.0	587.0
25°	530.0	554.0	568.6	529.3	503.3
26°	453.2	476.7	494.5	455.1	430.4
27°	386.1	410.8	429.2	392.4	368.9
28°	328.4	352.5	371.5	337.2	315.1
29°	285.3	299.2	318.2	289.7	269.4
30°	242.8	258.0	278.3	249.1	231.4
32.5°	166.7	175.0	190.8	173.1	159.1
35°	118.5	123.6	131.2	119.2	110.9
37.5°	84.3	86.8	91.3	84.3	79.9
40°	62.1	63.4	65.3	61.5	59.0
42.5°	46.3	46.9	46.9	45.6	44.4
45°	34.9	35.5	34.9	34.9	33.6
47.5°	25.4	27.3	26.6	26.6	24.7
50°	16.5	20.3	20.3	19.7	16.5
52.5°	10.1	13.9	15.8	13.9	10.8
55°	7.6	9.5	12.0	9.5	8.2
57.5°	7.6	7.6	8.9	7.6	7.6
60°	7.6	7.6	7.6	7.6	7.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	7.0	7.0	7.0	7.0	7.0
70°	7.0	7.0	6.3	7.0	7.0
72.5°	6.3	6.3	5.7	6.3	5.7
75°	5.1	5.1	5.1	5.1	5.1
77.5°	3.8	3.8	3.8	3.8	3.8
80°	3.2	3.2	3.2	3.2	3.2
82.5°	1.9	1.9	1.9	2.5	1.9
85°	1.3	1.3	1.3	1.3	1.3
87.5°	0.6	0.6	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	7.6	7.6	7.6	7.6	7.6
65°	7.0	7.6	7.0	7.6	7.0



(END OF REPORT)