

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: P283650

Luminaire Tested: **LDA2B158040D010 EU2B15FL408040 2LBALPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283650  
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 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: 1212.1 lumens  
Efficiency: N/A  
Efficacy: 86.0 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

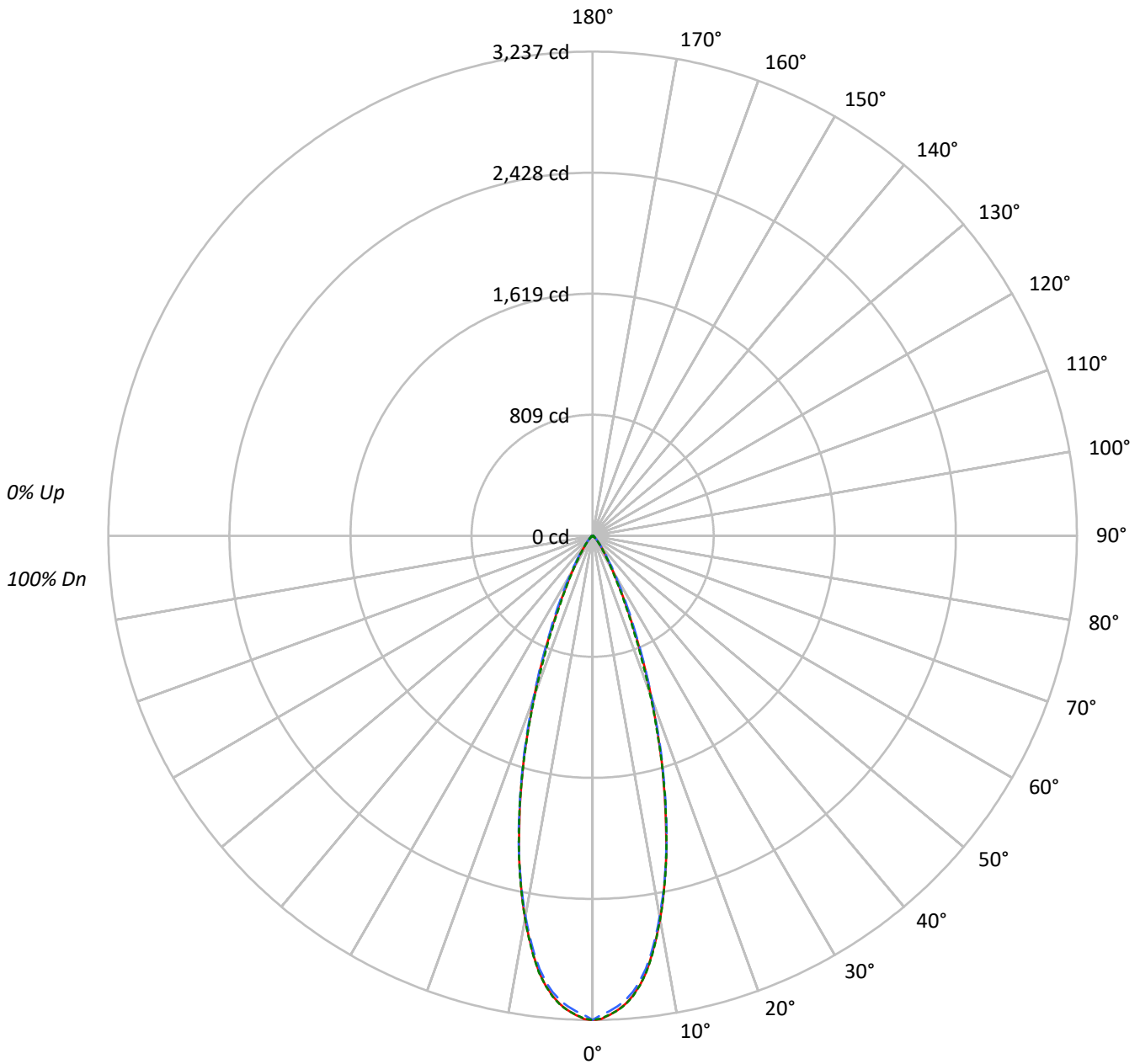
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95					95			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90					90			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86					86			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82					82			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79					79			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75					75			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72					72			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69					69			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67					67			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64					64			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1596963	1596963	1596963
5°	1528330	1516841	1530658
10°	1302078	1293862	1303431
15°	959678	965909	962793
20°	599106	610184	585875
25°	309471	332062	293902
30°	148346	170051	141396
35°	76610	84802	71672
40°	42893	45083	40703
45°	26095	26095	25118
50°	13585	16732	13585
55°	7053	11096	7569
60°	8091	8091	8091
65°	8755	8755	8755
70°	10819	9809	10819
75°	10293	10293	10293
80°	9660	9660	9660
85°	7925	7925	7925



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	278.4	23.0
10°-20°	511.4	42.2
20°-30°	277.3	22.9
30°-40°	89.0	7.3
40°-50°	30.3	2.5
50°-60°	10.6	0.9
60°-70°	7.8	0.6
70°-80°	5.6	0.5
80°-90°	1.6	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°	1067.1	88.0
0°-40°	1156.1	95.4
0°-60°	1197.1	98.8
0°-90°	1212.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1212.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3237	3237	3237	3237	3237	
5°	3086	3067	3063	3093	3091	279
15°	1879	1894	1891	1900	1885	509
25°	568	594	610	568	540	272
35°	127	133	141	128	119	86
45°	37	38	37	37	36	30
55°	8	10	13	10	9	9
65°	8	8	8	8	8	8
75°	5	5	5	5	5	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°	3236.9	3236.9	3236.9	3236.9	3236.9
1°	3231.5	3208.4	3205.0	3234.9	3228.1
2°	3205.6	3183.9	3180.5	3210.4	3204.3
3°	3177.1	3157.4	3150.6	3181.8	3177.8
4°	3139.0	3120.6	3114.5	3145.8	3142.4
5°	3086.0	3066.9	3062.8	3093.4	3090.7
6°	3020.7	3005.0	2997.5	3028.2	3022.7
7°	2939.1	2924.8	2916.6	2939.1	2941.8
8°	2833.0	2826.2	2816.7	2839.1	2839.1
9°	2720.1	2714.0	2703.8	2724.2	2724.2
10°	2599.1	2595.0	2582.7	2601.8	2601.8
11°	2466.4	2464.4	2455.6	2471.2	2471.2
12°	2327.0	2331.8	2323.6	2337.2	2332.5
13°	2187.6	2185.6	2186.3	2196.5	2189.0
14°	2029.9	2042.1	2044.2	2050.3	2038.7
15°	1878.9	1894.5	1891.1	1900.0	1885.0
16°	1724.5	1742.2	1741.5	1743.6	1729.3
17°	1580.4	1590.6	1591.3	1589.2	1571.5
18°	1426.7	1441.0	1441.0	1437.6	1416.5
19°	1276.4	1287.3	1294.8	1287.3	1262.8
20°	1141.1	1148.6	1162.2	1143.1	1115.9
21°	1011.2	1018.0	1029.6	1007.1	977.2
22°	886.8	895.6	906.5	880.6	849.4
23°	770.5	790.9	794.9	759.6	733.1
24°	663.7	686.8	693.6	657.6	629.7
25°	568.5	594.3	610.0	567.8	539.9
26°	486.2	511.4	530.4	488.3	461.7
27°	414.1	440.7	460.4	420.9	395.8
28°	352.3	378.1	398.5	361.8	338.0
29°	306.0	321.0	341.4	310.8	289.0
30°	260.4	276.8	298.5	267.2	248.2
32.5°	178.8	187.7	204.7	185.6	170.7
35°	127.2	132.6	140.8	127.8	119.0
37.5°	90.4	93.2	97.9	90.4	85.7
40°	66.6	68.0	70.0	66.0	63.2
42.5°	49.6	50.3	50.3	49.0	47.6
45°	37.4	38.1	37.4	37.4	36.0
47.5°	27.2	29.2	28.6	28.6	26.5
50°	17.7	21.8	21.8	21.1	17.7
52.5°	10.9	15.0	17.0	15.0	11.6
55°	8.2	10.2	12.9	10.2	8.8
57.5°	8.2	8.2	9.5	8.2	8.2
60°	8.2	8.2	8.2	8.2	8.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	7.5	7.5	7.5	7.5	7.5
70°	7.5	7.5	6.8	7.5	7.5
72.5°	6.8	6.8	6.1	6.8	6.1
75°	5.4	5.4	5.4	5.4	5.4
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°	2.0	2.0	2.0	2.7	2.0
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°	8.2	8.2	8.2	8.2	8.2
65°	7.5	8.2	7.5	8.2	7.5



(END OF REPORT)