

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: P283641

Luminaire Tested: **LDA2B158035D010 EU2B15FL408035 2LBAPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283641  
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: LDA2B158035D010 EU2B15FL408035 2LBAPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MB  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1240.0 lumens  
Efficiency: N/A  
Efficacy: 87.9 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

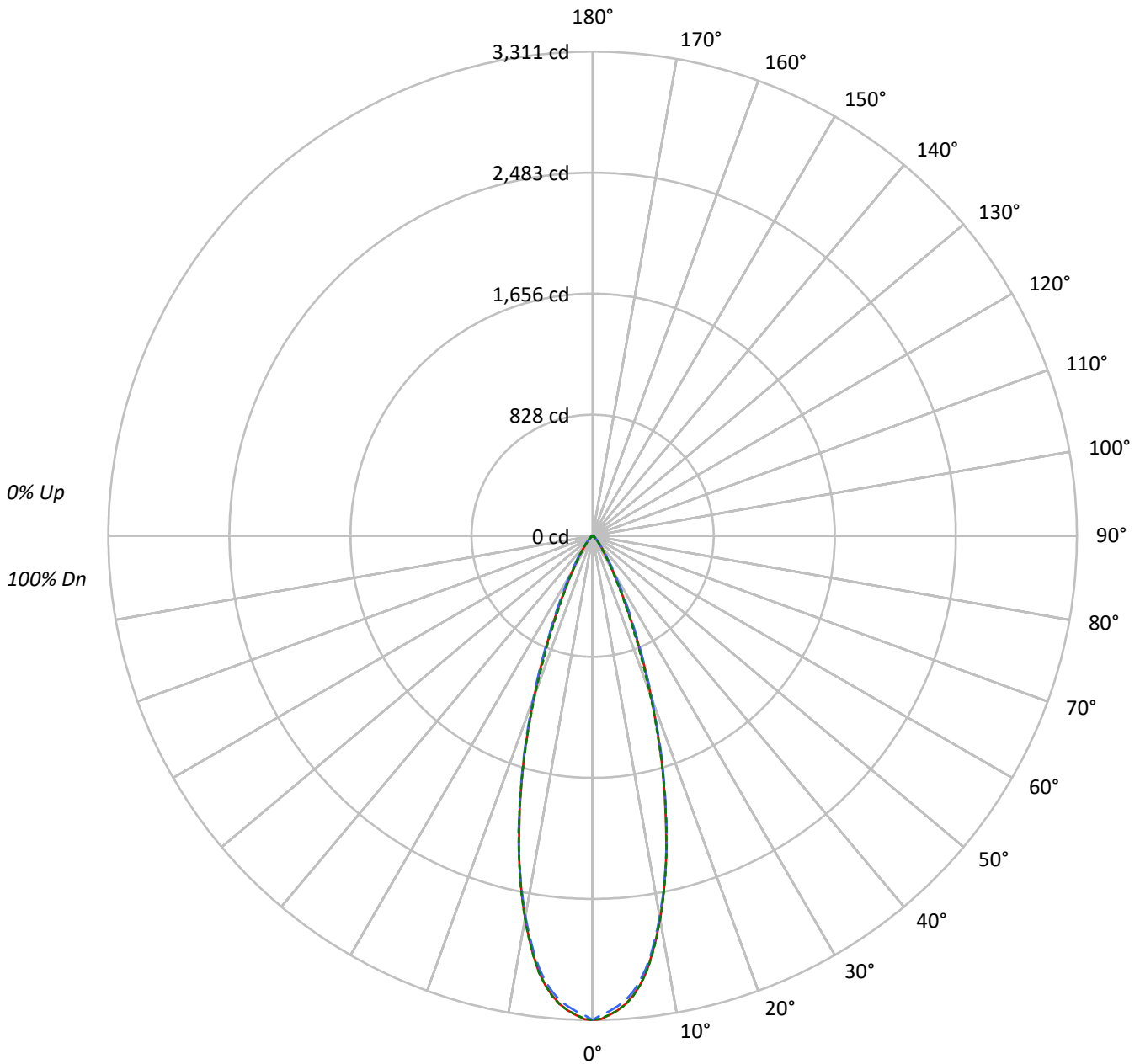
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20					20					20					20					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°	1633669	1633669	1633669
5°	1563443	1551706	1565820
10°	1331986	1323620	1333339
15°	981743	988127	984910
20°	612861	624202	599368
25°	316602	339683	300653
30°	151764	173982	144643
35°	78357	86729	73298
40°	43923	46178	41669
45°	26723	26723	25746
50°	13892	17116	13892
55°	7139	11354	7741
60°	8190	8190	8190
65°	8989	8989	8989
70°	11107	10097	11107
75°	10675	10675	10675
80°	9944	9944	9944
85°	7925	7925	7925



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	284.8	23.0
10°-20°	523.2	42.2
20°-30°	283.6	22.9
30°-40°	91.1	7.3
40°-50°	31.1	2.5
50°-60°	10.9	0.9
60°-70°	7.9	0.6
70°-80°	5.8	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°	1091.6	88.0
0°-40°	1182.7	95.4
0°-60°	1224.6	98.8
0°-90°	1240.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1240.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3311	3311	3311	3311	3311	
5°	3157	3137	3133	3164	3162	285
15°	1922	1938	1935	1944	1928	521
25°	582	608	624	581	552	279
35°	130	136	144	131	122	88
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°	3311.3	3311.3	3311.3	3311.3	3311.3
1°	3305.7	3282.1	3278.6	3309.2	3302.2
2°	3279.3	3257.0	3253.5	3284.2	3277.9
3°	3250.1	3229.9	3222.9	3254.9	3250.8
4°	3211.1	3192.3	3186.1	3218.1	3214.6
5°	3156.9	3137.4	3133.2	3164.5	3161.7
6°	3090.1	3074.1	3066.4	3097.7	3092.2
7°	3006.6	2992.0	2983.6	3006.6	3009.4
8°	2898.1	2891.1	2881.4	2904.3	2904.3
9°	2782.6	2776.3	2765.9	2786.8	2786.8
10°	2658.8	2654.6	2642.1	2661.5	2661.5
11°	2523.1	2521.0	2512.0	2528.0	2528.0
12°	2380.5	2385.4	2377.0	2390.9	2386.1
13°	2237.9	2235.8	2236.5	2246.9	2239.3
14°	2076.5	2089.0	2091.1	2097.4	2085.6
15°	1922.1	1938.1	1934.6	1943.6	1928.3
16°	1764.2	1782.3	1781.6	1783.6	1769.0
17°	1616.7	1627.1	1627.8	1625.7	1607.6
18°	1459.5	1474.1	1474.1	1470.6	1449.0
19°	1305.7	1316.9	1324.5	1316.9	1291.8
20°	1167.3	1174.9	1188.9	1169.4	1141.6
21°	1034.4	1041.4	1053.2	1030.3	999.6
22°	907.1	916.2	927.3	900.9	868.9
23°	788.2	809.0	813.2	777.0	749.9
24°	679.0	702.6	709.6	672.7	644.2
25°	581.6	608.0	624.0	580.9	552.3
26°	497.4	523.1	542.6	499.5	472.3
27°	423.6	450.8	471.0	430.6	404.9
28°	360.3	386.8	407.6	370.1	345.7
29°	313.0	328.3	349.2	317.9	295.7
30°	266.4	283.1	305.4	273.4	253.9
32.5°	183.0	192.0	209.4	189.9	174.6
35°	130.1	135.7	144.0	130.8	121.7
37.5°	92.5	95.3	100.2	92.5	87.7
40°	68.2	69.6	71.7	67.5	64.7
42.5°	50.8	51.5	51.5	50.1	48.7
45°	38.3	39.0	38.3	38.3	36.9
47.5°	27.8	29.9	29.2	29.2	27.1
50°	18.1	22.3	22.3	21.6	18.1
52.5°	11.1	15.3	17.4	15.3	11.8
55°	8.3	10.4	13.2	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°	7.7	7.7	7.7	7.7	7.7
70°	7.7	7.7	7.0	7.7	7.7
72.5°	7.0	7.0	6.3	7.0	6.3
75°	5.6	5.6	5.6	5.6	5.6
77.5°	4.2	4.2	4.2	4.2	4.2
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°	7.7	8.3	7.7	8.3	7.7



(END OF REPORT)