

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: P283689

Luminaire Tested: **LDA2B159050D010 EU2B15FL409050 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283689
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: LDA2B159050D010 EU2B15FL409050 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: 1077.4 lumens
Efficiency: N/A
Efficacy: 76.4 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

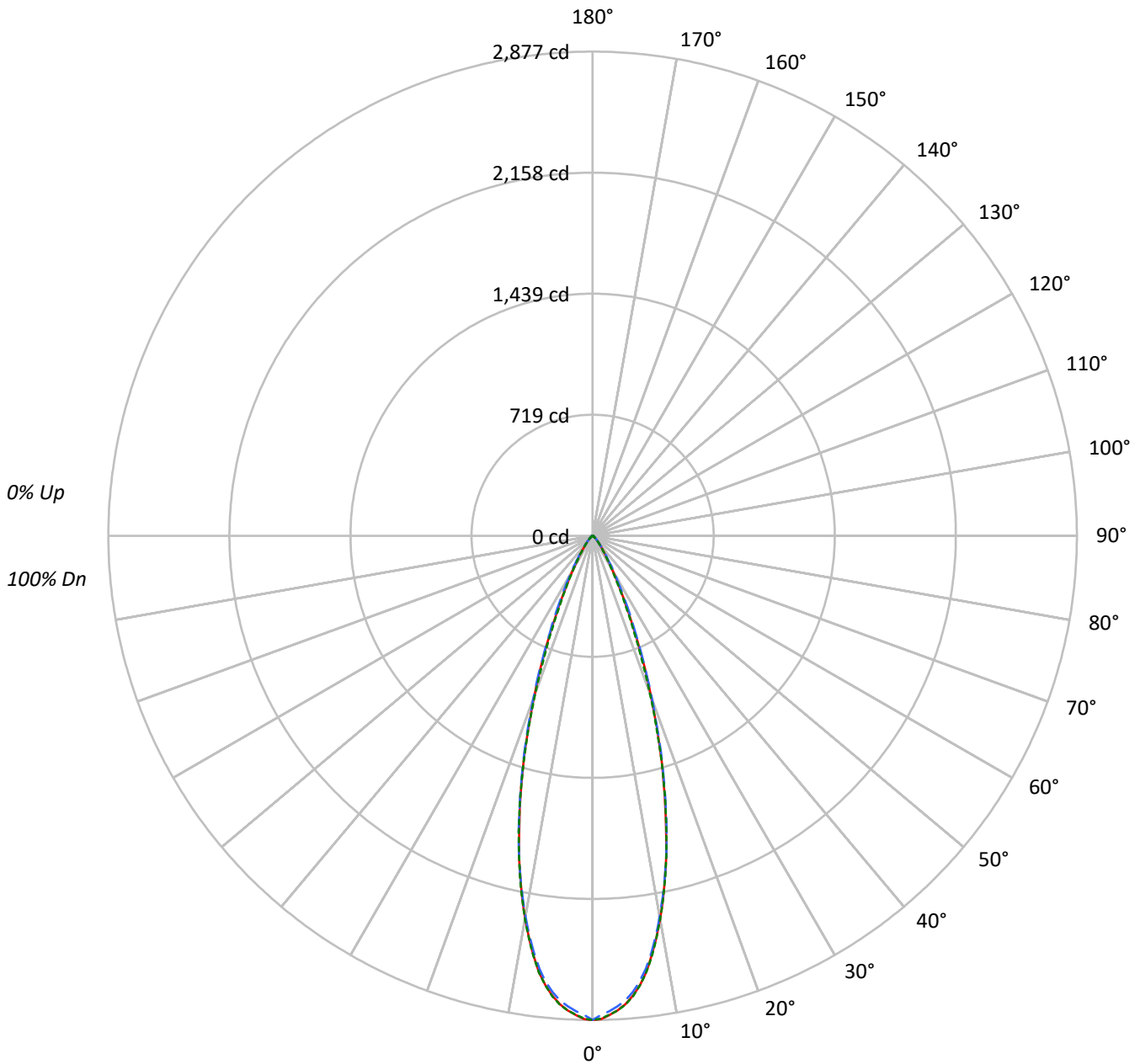
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1419550	1419550	1419550
5°	1358510	1348358	1360640
10°	1157397	1150133	1158650
15°	853081	858648	855839
20°	532533	542403	520824
25°	275067	295154	261295
30°	131882	151194	125673
35°	68058	75346	63722
40°	38127	40124	36195
45°	23164	23164	22327
50°	12050	14813	12050
55°	6279	9892	6795
60°	7203	7203	7203
65°	7705	7705	7705
70°	9520	8655	9520
75°	9150	9150	9150
80°	8523	8523	8523
85°	6793	6793	6793



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.5	23.0
10°-20°	454.6	42.2
20°-30°	246.5	22.9
30°-40°	79.1	7.3
40°-50°	27.0	2.5
50°-60°	9.5	0.9
60°-70°	6.9	0.6
70°-80°	5.0	0.5
80°-90°	1.4	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°	948.6	88.0
0°-40°	1027.7	95.4
0°-60°	1064.1	98.8
0°-90°	1077.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1077.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2877	2877	2877	2877	2877	
5°	2743	2726	2723	2750	2747	248
15°	1670	1684	1681	1689	1676	453
25°	505	528	542	505	480	242
35°	113	118	125	114	106	76
45°	33	34	33	33	32	26
55°	7	9	12	9	8	8
65°	7	7	7	7	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°	2877.3	2877.3	2877.3	2877.3	2877.3
1°	2872.5	2852.0	2848.9	2875.5	2869.5
2°	2849.5	2830.2	2827.2	2853.8	2848.3
3°	2824.1	2806.6	2800.6	2828.4	2824.8
4°	2790.3	2774.0	2768.5	2796.3	2793.3
5°	2743.1	2726.2	2722.6	2749.8	2747.4
6°	2685.1	2671.2	2664.6	2691.8	2686.9
7°	2612.6	2599.9	2592.6	2612.6	2615.0
8°	2518.3	2512.2	2503.8	2523.7	2523.7
9°	2417.9	2412.5	2403.4	2421.6	2421.6
10°	2310.3	2306.7	2295.8	2312.8	2312.8
11°	2192.5	2190.6	2182.8	2196.7	2196.7
12°	2068.5	2072.8	2065.5	2077.6	2073.4
13°	1944.6	1942.8	1943.4	1952.5	1945.8
14°	1804.4	1815.3	1817.1	1822.5	1812.2
15°	1670.2	1684.1	1681.1	1688.9	1675.6
16°	1533.0	1548.7	1548.1	1549.9	1537.2
17°	1404.8	1413.9	1414.5	1412.7	1397.0
18°	1268.2	1280.9	1280.9	1277.9	1259.1
19°	1134.6	1144.3	1150.9	1144.3	1122.5
20°	1014.3	1021.0	1033.1	1016.1	992.0
21°	898.9	904.9	915.2	895.2	868.6
22°	788.2	796.1	805.8	782.8	755.0
23°	684.9	703.0	706.6	675.2	651.6
24°	590.0	610.5	616.6	584.5	559.8
25°	505.3	528.3	542.2	504.7	480.0
26°	432.2	454.6	471.5	434.0	410.4
27°	368.1	391.7	409.2	374.2	351.8
28°	313.1	336.1	354.2	321.6	300.4
29°	272.0	285.3	303.5	276.2	256.9
30°	231.5	246.0	265.4	237.6	220.6
32.5°	159.0	166.8	181.9	165.0	151.7
35°	113.0	117.9	125.1	113.6	105.8
37.5°	80.4	82.8	87.0	80.4	76.2
40°	59.2	60.4	62.3	58.6	56.2
42.5°	44.1	44.7	44.7	43.5	42.3
45°	33.2	33.9	33.2	33.2	32.0
47.5°	24.2	26.0	25.4	25.4	23.6
50°	15.7	19.3	19.3	18.7	15.7
52.5°	9.7	13.3	15.1	13.3	10.3
55°	7.3	9.1	11.5	9.1	7.9
57.5°	7.3	7.3	8.5	7.3	7.3
60°	7.3	7.3	7.3	7.3	7.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	6.6	6.6	6.6	6.6	6.6
70°	6.6	6.6	6.0	6.6	6.6
72.5°	6.0	6.0	5.4	6.0	5.4
75°	4.8	4.8	4.8	4.8	4.8
77.5°	3.6	3.6	3.6	3.6	3.6
80°	3.0	3.0	3.0	3.0	3.0
82.5°	1.8	1.8	1.8	2.4	1.8
85°	1.2	1.2	1.2	1.2	1.2
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°	7.3	7.3	7.3	7.3	7.3
65°	6.6	7.3	6.6	7.3	6.6



(END OF REPORT)