

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: P283638

Luminaire Tested: **LDA2B158030D010 EU2B15FL408030 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283638
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: LDA2B158030D010 EU2B15FL408030 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: 1151.7 lumens
Efficiency: N/A
Efficacy: 81.7 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

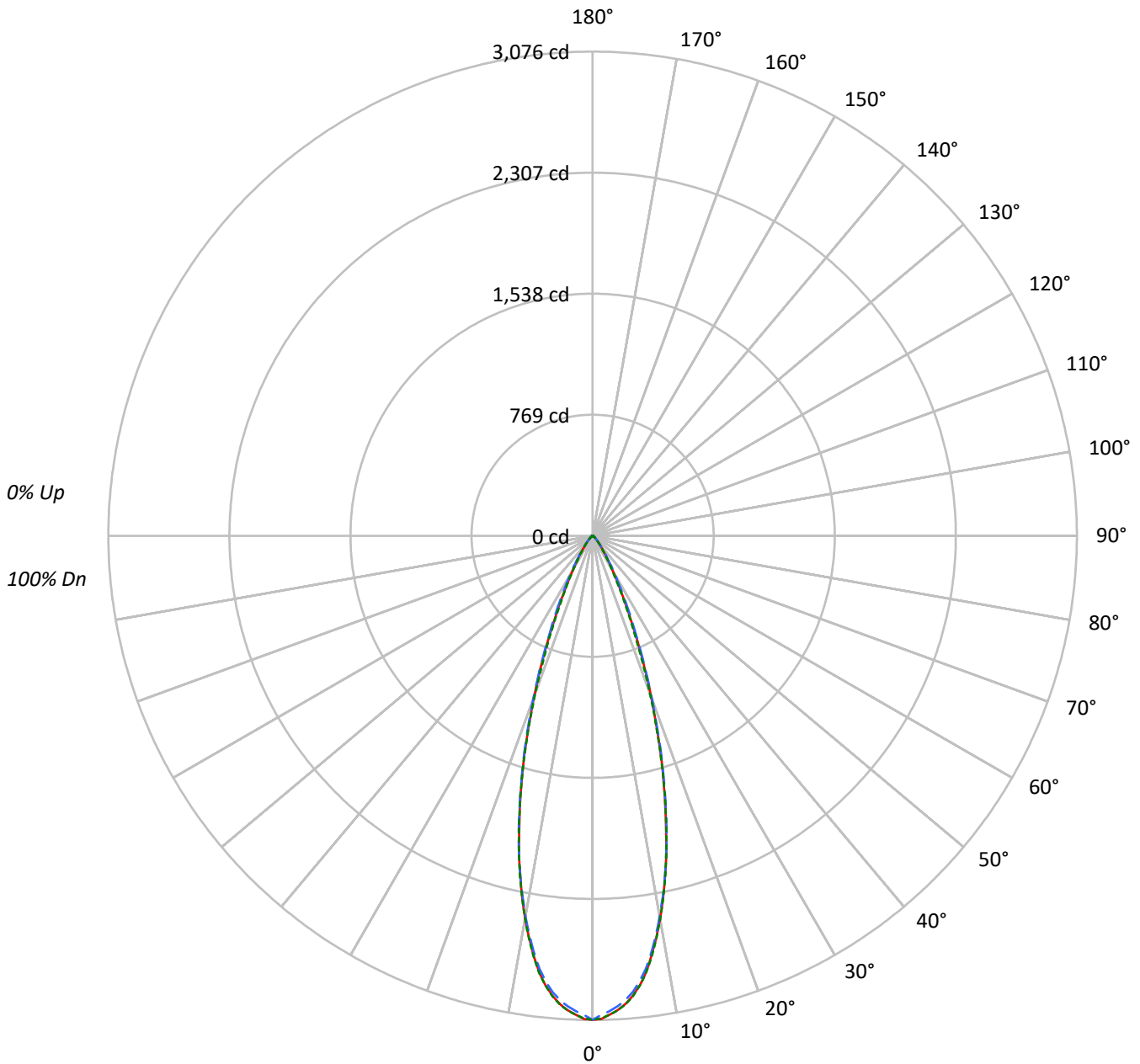
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283638

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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°	1517384	1517384	1517384
5°	1452161	1441266	1454390
10°	1237152	1229387	1238455
15°	911870	917795	914832
20°	569232	579732	556684
25°	294066	315514	279259
30°	140997	161620	134332
35°	72756	80525	68118
40°	40768	42893	38707
45°	24769	24769	23862
50°	12895	15888	12895
55°	6709	10580	7225
60°	7696	7696	7696
65°	8288	8288	8288
70°	10242	9376	10242
75°	9912	9912	9912
80°	9092	9092	9092
85°	7359	7359	7359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.5	23.0
10°-20°	485.9	42.2
20°-30°	263.4	22.9
30°-40°	84.6	7.3
40°-50°	28.8	2.5
50°-60°	10.1	0.9
60°-70°	7.4	0.6
70°-80°	5.4	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°	1013.9	88.0
0°-40°	1098.5	95.4
0°-60°	1137.4	98.8
0°-90°	1151.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1151.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3076	3076	3076	3076	3076	
5°	2932	2914	2910	2939	2937	265
15°	1785	1800	1797	1805	1791	484
25°	540	565	580	540	513	259
35°	121	126	134	122	113	81
45°	36	36	36	36	34	28
55°	8	10	12	10	8	9
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°	3075.6	3075.6	3075.6	3075.6	3075.6
1°	3070.4	3048.5	3045.2	3073.7	3067.2
2°	3045.9	3025.2	3022.0	3050.4	3044.6
3°	3018.7	3000.0	2993.5	3023.3	3019.4
4°	2982.6	2965.1	2959.3	2989.0	2985.8
5°	2932.2	2914.1	2910.2	2939.3	2936.7
6°	2870.1	2855.3	2848.2	2877.2	2872.1
7°	2792.6	2779.0	2771.3	2792.6	2795.2
8°	2691.8	2685.3	2676.3	2697.6	2697.6
9°	2584.5	2578.7	2569.0	2588.4	2588.4
10°	2469.5	2465.6	2454.0	2472.1	2472.1
11°	2343.5	2341.6	2333.2	2348.1	2348.1
12°	2211.1	2215.6	2207.8	2220.8	2216.2
13°	2078.6	2076.7	2077.3	2087.0	2079.9
14°	1928.7	1940.3	1942.3	1948.1	1937.1
15°	1785.3	1800.1	1796.9	1805.3	1791.1
16°	1638.6	1655.4	1654.8	1656.7	1643.1
17°	1501.6	1511.3	1512.0	1510.0	1493.2
18°	1355.6	1369.2	1369.2	1365.9	1345.9
19°	1212.8	1223.1	1230.2	1223.1	1199.9
20°	1084.2	1091.3	1104.2	1086.2	1060.3
21°	960.8	967.3	978.2	956.9	928.5
22°	842.6	851.0	861.3	836.7	807.0
23°	732.1	751.5	755.3	721.7	696.5
24°	630.6	652.6	659.1	624.8	598.3
25°	540.2	564.7	579.6	539.5	513.0
26°	462.0	485.9	504.0	463.9	438.7
27°	393.5	418.7	437.4	400.0	376.1
28°	334.7	359.3	378.6	343.7	321.1
29°	290.8	305.0	324.4	295.3	274.6
30°	247.5	263.0	283.7	253.9	235.8
32.5°	169.9	178.3	194.5	176.4	162.2
35°	120.8	126.0	133.7	121.5	113.1
37.5°	85.9	88.5	93.0	85.9	81.4
40°	63.3	64.6	66.6	62.7	60.1
42.5°	47.2	47.8	47.8	46.5	45.2
45°	35.5	36.2	35.5	35.5	34.2
47.5°	25.8	27.8	27.1	27.1	25.2
50°	16.8	20.7	20.7	20.0	16.8
52.5°	10.3	14.2	16.2	14.2	11.0
55°	7.8	9.7	12.3	9.7	8.4
57.5°	7.8	7.8	9.0	7.8	7.8
60°	7.8	7.8	7.8	7.8	7.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	7.1	7.1	7.1	7.1	7.1
70°	7.1	7.1	6.5	7.1	7.1
72.5°	6.5	6.5	5.8	6.5	5.8
75°	5.2	5.2	5.2	5.2	5.2
77.5°	3.9	3.9	3.9	3.9	3.9
80°	3.2	3.2	3.2	3.2	3.2
82.5°	1.9	1.9	1.9	2.6	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°	7.8	7.8	7.8	7.8	7.8
65°	7.1	7.8	7.1	7.8	7.1



(END OF REPORT)