

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: P283667

Luminaire Tested: **LDA2B159027D010 EU2B15FL409027 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283667
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: LDA2B159027D010 EU2B15FL409027 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 924.4 lumens
Efficiency: N/A
Efficacy: 65.6 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

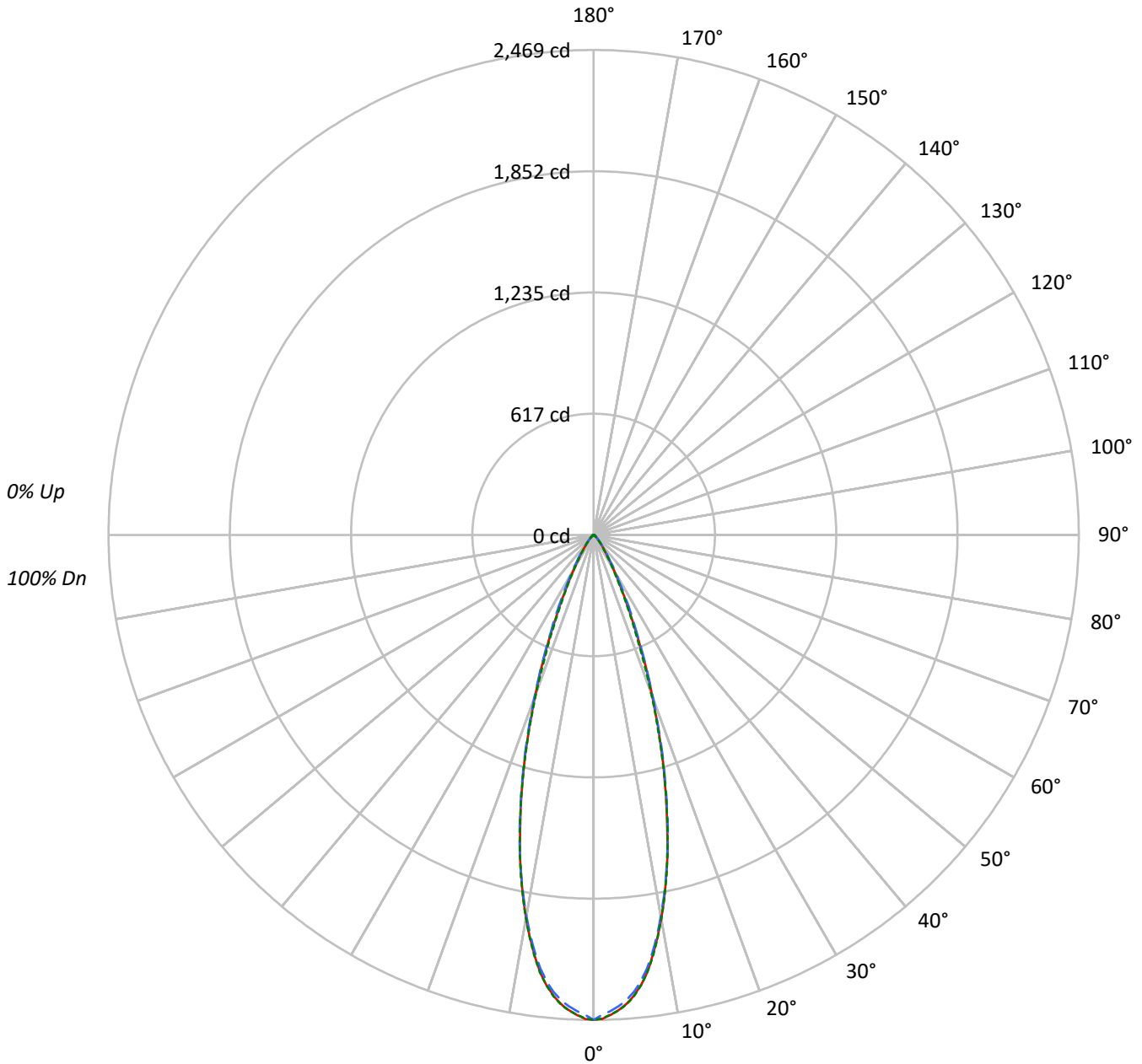
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1218061	1218061	1218061
5°	1165661	1156945	1167444
10°	993078	986866	994130
15°	731978	736728	734328
20°	456929	465382	446848
25°	236036	253238	224169
30°	113139	129717	107841
35°	58422	64685	54687
40°	32717	34392	31043
45°	19885	19885	19187
50°	10362	12741	10362
55°	5333	8515	5763
60°	6118	6118	6118
65°	6654	6654	6654
70°	8222	7501	8222
75°	7815	7815	7815
80°	7387	7387	7387
85°	5661	5661	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.4	23.0
10°-20°	390.1	42.2
20°-30°	211.5	22.9
30°-40°	67.9	7.3
40°-50°	23.1	2.5
50°-60°	8.1	0.9
60°-70°	5.9	0.6
70°-80°	4.3	0.5
80°-90°	1.2	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°	813.9	88.0
0°-40°	881.8	95.4
0°-60°	913.0	98.8
0°-90°	924.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	924.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2469	2469	2469	2469	2469	
5°	2354	2339	2336	2359	2357	213
15°	1433	1445	1442	1449	1438	388
25°	434	453	465	433	412	208
35°	97	101	107	98	91	65
45°	28	29	28	28	28	23
55°	6	8	10	8	7	7
65°	6	6	6	6	6	6
75°	4	4	4	4	4	4
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°	2468.9	2468.9	2468.9	2468.9	2468.9
1°	2464.7	2447.1	2444.5	2467.3	2462.1
2°	2445.0	2428.4	2425.8	2448.6	2444.0
3°	2423.2	2408.2	2403.0	2426.8	2423.7
4°	2394.2	2380.2	2375.5	2399.4	2396.8
5°	2353.7	2339.2	2336.1	2359.4	2357.3
6°	2303.9	2292.0	2286.3	2309.6	2305.5
7°	2241.7	2230.8	2224.6	2241.7	2243.8
8°	2160.8	2155.6	2148.3	2165.4	2165.4
9°	2074.7	2070.0	2062.2	2077.8	2077.8
10°	1982.3	1979.2	1969.9	1984.4	1984.4
11°	1881.2	1879.7	1872.9	1884.8	1884.8
12°	1774.9	1778.5	1772.3	1782.7	1779.0
13°	1668.6	1667.0	1667.5	1675.3	1669.6
14°	1548.2	1557.6	1559.1	1563.8	1555.0
15°	1433.1	1445.0	1442.4	1449.2	1437.7
16°	1315.3	1328.8	1328.3	1329.9	1319.0
17°	1205.4	1213.2	1213.7	1212.1	1198.6
18°	1088.2	1099.1	1099.1	1096.5	1080.4
19°	973.5	981.8	987.5	981.8	963.2
20°	870.3	876.0	886.4	871.9	851.1
21°	771.3	776.4	785.3	768.1	745.3
22°	676.3	683.1	691.4	671.7	647.8
23°	587.7	603.2	606.3	579.4	559.1
24°	506.2	523.9	529.0	501.6	480.3
25°	433.6	453.3	465.2	433.1	411.8
26°	370.8	390.0	404.6	372.4	352.2
27°	315.9	336.1	351.1	321.1	301.9
28°	268.7	288.4	303.9	275.9	257.8
29°	233.4	244.8	260.4	237.0	220.4
30°	198.6	211.1	227.7	203.8	189.3
32.5°	136.4	143.2	156.1	141.6	130.2
35°	97.0	101.1	107.4	97.5	90.8
37.5°	69.0	71.1	74.7	69.0	65.4
40°	50.8	51.9	53.4	50.3	48.2
42.5°	37.9	38.4	38.4	37.3	36.3
45°	28.5	29.0	28.5	28.5	27.5
47.5°	20.7	22.3	21.8	21.8	20.2
50°	13.5	16.6	16.6	16.1	13.5
52.5°	8.3	11.4	13.0	11.4	8.8
55°	6.2	7.8	9.9	7.8	6.7
57.5°	6.2	6.2	7.3	6.2	6.2
60°	6.2	6.2	6.2	6.2	6.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	5.7	5.7	5.7	5.7	5.7
70°	5.7	5.7	5.2	5.7	5.7
72.5°	5.2	5.2	4.7	5.2	4.7
75°	4.1	4.1	4.1	4.1	4.1
77.5°	3.1	3.1	3.1	3.1	3.1
80°	2.6	2.6	2.6	2.6	2.6
82.5°	1.6	1.6	1.6	2.1	1.6
85°	1.0	1.0	1.0	1.0	1.0
87.5°	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	6.2	6.2	6.2	6.2	6.2
65°	5.7	6.2	5.7	6.2	5.7



(END OF REPORT)