

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: P283673

Luminaire Tested: **LDA2B159030D010 EU2B15FL409030 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283673
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: LDA2B159030D010 EU2B15FL409030 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: 964.5 lumens
Efficiency: N/A
Efficacy: 68.4 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

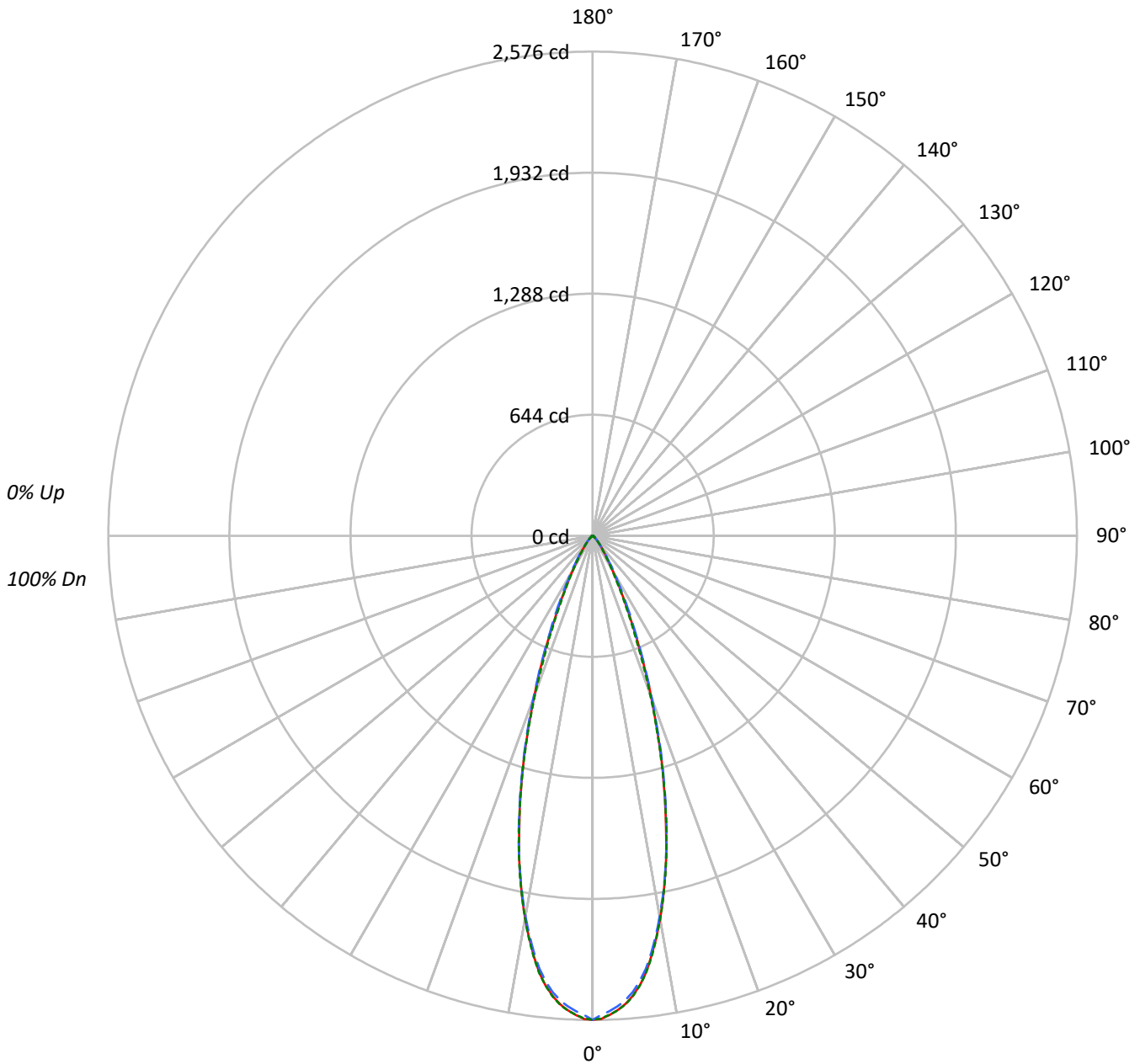
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1270752	1270752	1270752
5°	1216127	1207014	1218009
10°	1036112	1029599	1037164
15°	763646	768651	766149
20°	476722	485543	466222
25°	246271	264235	233913
30°	118096	135357	112513
35°	60951	67456	57036
40°	34134	35873	32395
45°	20792	20792	20025
50°	10822	13278	10822
55°	5591	8860	6021
60°	6414	6414	6414
65°	7004	7004	7004
70°	8655	7789	8655
75°	8197	8197	8197
80°	7671	7671	7671
85°	6227	6227	6227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.6	23.0
10°-20°	407.0	42.2
20°-30°	220.6	22.9
30°-40°	70.8	7.3
40°-50°	24.1	2.5
50°-60°	8.5	0.9
60°-70°	6.2	0.6
70°-80°	4.5	0.5
80°-90°	1.3	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°	849.1	88.0
0°-40°	920.0	95.4
0°-60°	952.6	98.8
0°-90°	964.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	964.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2576	2576	2576	2576	2576	
5°	2456	2440	2437	2462	2459	222
15°	1495	1508	1505	1512	1500	405
25°	452	473	485	452	430	217
35°	101	106	112	102	95	68
45°	30	30	30	30	29	24
55°	6	8	10	8	7	7
65°	6	6	6	6	6	6
75°	4	4	4	4	4	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°	2575.7	2575.7	2575.7	2575.7	2575.7
1°	2571.4	2553.0	2550.3	2574.1	2568.7
2°	2550.9	2533.5	2530.8	2554.6	2549.8
3°	2528.1	2512.4	2507.0	2531.9	2528.7
4°	2497.8	2483.2	2478.3	2503.2	2500.5
5°	2455.6	2440.5	2437.2	2461.6	2459.4
6°	2403.7	2391.2	2385.3	2409.6	2405.3
7°	2338.7	2327.4	2320.9	2338.7	2340.9
8°	2254.3	2248.9	2241.3	2259.2	2259.2
9°	2164.5	2159.6	2151.5	2167.7	2167.7
10°	2068.2	2064.9	2055.2	2070.3	2070.3
11°	1962.7	1961.0	1954.0	1966.4	1966.4
12°	1851.7	1855.5	1849.0	1859.8	1856.1
13°	1740.8	1739.2	1739.7	1747.8	1741.9
14°	1615.3	1625.0	1626.6	1631.5	1622.3
15°	1495.1	1507.6	1504.9	1511.9	1500.0
16°	1372.3	1386.4	1385.8	1387.4	1376.1
17°	1257.6	1265.7	1266.2	1264.6	1250.5
18°	1135.3	1146.6	1146.6	1143.9	1127.2
19°	1015.7	1024.3	1030.3	1024.3	1004.9
20°	908.0	914.0	924.8	909.6	888.0
21°	804.7	810.1	819.3	801.4	777.6
22°	705.6	712.7	721.3	700.8	675.9
23°	613.1	629.3	632.6	604.4	583.3
24°	528.1	546.5	551.9	523.3	501.1
25°	452.4	472.9	485.4	451.8	429.7
26°	386.9	406.9	422.1	388.5	367.4
27°	329.5	350.6	366.3	335.0	314.9
28°	280.3	300.9	317.1	287.9	268.9
29°	243.5	255.4	271.6	247.3	230.0
30°	207.3	220.2	237.6	212.7	197.5
32.5°	142.3	149.4	162.9	147.7	135.8
35°	101.2	105.5	112.0	101.7	94.7
37.5°	72.0	74.1	77.9	72.0	68.2
40°	53.0	54.1	55.7	52.5	50.3
42.5°	39.5	40.0	40.0	39.0	37.9
45°	29.8	30.3	29.8	29.8	28.7
47.5°	21.6	23.3	22.7	22.7	21.1
50°	14.1	17.3	17.3	16.8	14.1
52.5°	8.7	11.9	13.5	11.9	9.2
55°	6.5	8.1	10.3	8.1	7.0
57.5°	6.5	6.5	7.6	6.5	6.5
60°	6.5	6.5	6.5	6.5	6.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	6.0	6.0	6.0	6.0	6.0
70°	6.0	6.0	5.4	6.0	6.0
72.5°	5.4	5.4	4.9	5.4	4.9
75°	4.3	4.3	4.3	4.3	4.3
77.5°	3.2	3.2	3.2	3.2	3.2
80°	2.7	2.7	2.7	2.7	2.7
82.5°	1.6	1.6	1.6	2.2	1.6
85°	1.1	1.1	1.1	1.1	1.1
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°	6.5	6.5	6.5	6.5	6.5
65°	6.0	6.5	6.0	6.5	6.0



(END OF REPORT)