

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: P283647

Luminaire Tested: **LDA2B158040D010 EU2B15FL408040 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283647
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: LDA2B158040D010 EU2B15FL408040 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: 1290.6 lumens
Efficiency: N/A
Efficacy: 91.5 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

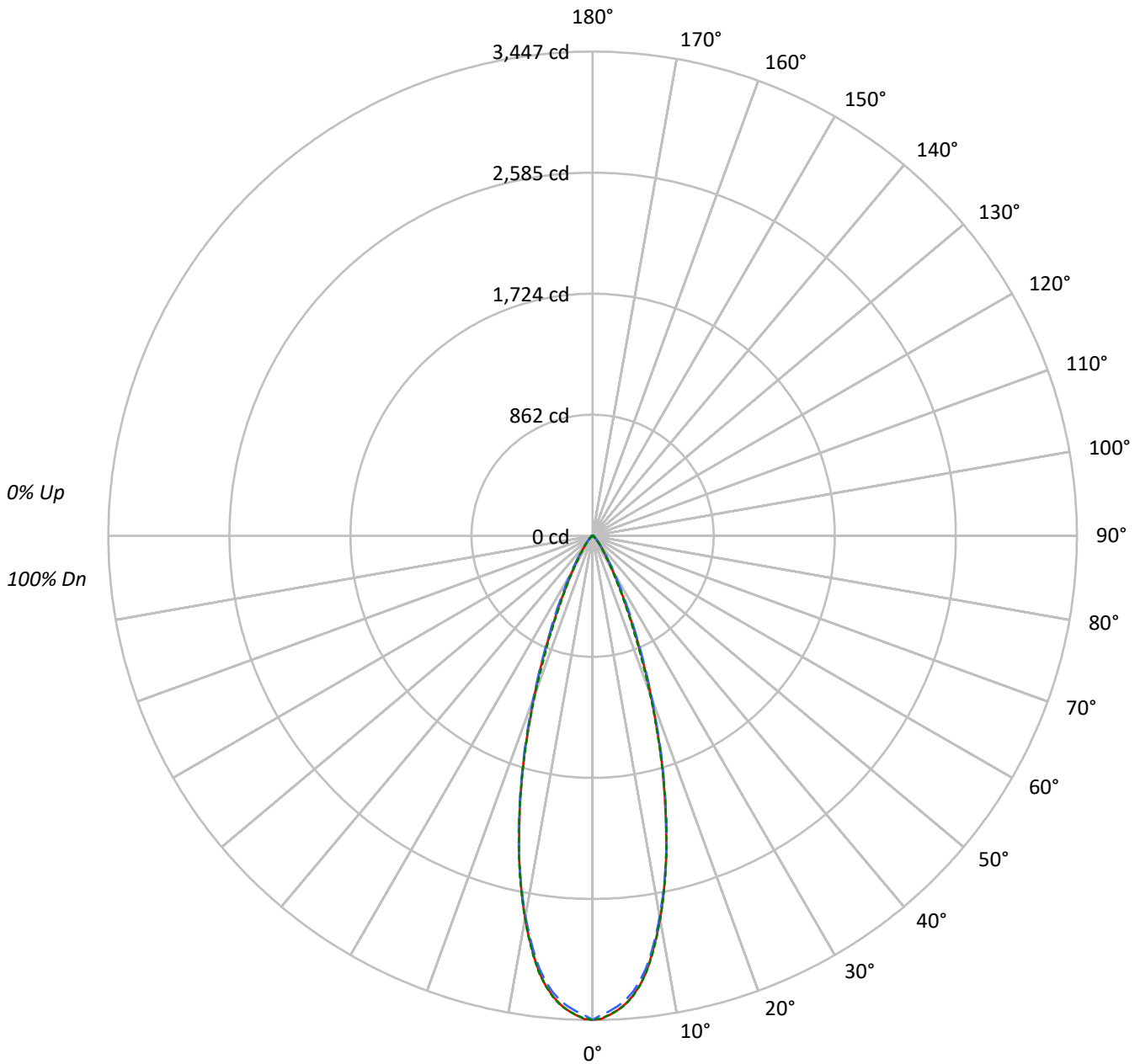
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1700470	1700470	1700470
5°	1627380	1615147	1629856
10°	1386442	1377725	1387895
15°	1021889	1028529	1025209
20°	637905	649718	623834
25°	329504	353565	312955
30°	157974	181103	150568
35°	81549	90282	76309
40°	45727	48045	43344
45°	27769	27769	26792
50°	14430	17807	14430
55°	7483	11870	8085
60°	8584	8584	8584
65°	9339	9339	9339
70°	11540	10386	11540
75°	11056	11056	11056
80°	10228	10228	10228
85°	7925	7925	7925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.5	23.0
10°-20°	544.6	42.2
20°-30°	295.2	22.9
30°-40°	94.8	7.3
40°-50°	32.3	2.5
50°-60°	11.3	0.9
60°-70°	8.3	0.6
70°-80°	6.0	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°	1136.3	88.0
0°-40°	1231.0	95.4
0°-60°	1274.7	98.8
0°-90°	1290.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1290.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3447	3447	3447	3447	3447	
5°	3286	3266	3261	3294	3291	297
15°	2001	2017	2014	2023	2007	542
25°	605	633	650	605	575	290
35°	135	141	150	136	127	91
45°	40	40	40	40	38	32
55°	9	11	14	11	9	10
65°	8	9	8	9	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°	3446.7	3446.7	3446.7	3446.7	3446.7
1°	3440.9	3416.3	3412.7	3444.5	3437.3
2°	3413.4	3390.2	3386.6	3418.5	3412.0
3°	3383.0	3362.0	3354.8	3388.1	3383.7
4°	3342.4	3322.9	3316.4	3349.7	3346.1
5°	3286.0	3265.7	3261.3	3293.9	3291.0
6°	3216.5	3199.8	3191.8	3224.4	3218.6
7°	3129.6	3114.4	3105.7	3129.6	3132.5
8°	3016.6	3009.4	2999.2	3023.1	3023.1
9°	2896.4	2889.9	2879.0	2900.7	2900.7
10°	2767.5	2763.2	2750.1	2770.4	2770.4
11°	2626.3	2624.1	2614.7	2631.4	2631.4
12°	2477.9	2482.9	2474.3	2488.7	2483.7
13°	2329.4	2327.3	2328.0	2338.8	2330.9
14°	2161.4	2174.5	2176.6	2183.2	2170.9
15°	2000.7	2017.3	2013.7	2023.1	2007.2
16°	1836.3	1855.1	1854.4	1856.6	1841.4
17°	1682.8	1693.7	1694.4	1692.2	1673.4
18°	1519.2	1534.4	1534.4	1530.7	1508.3
19°	1359.1	1370.7	1378.7	1370.7	1344.7
20°	1215.0	1223.0	1237.5	1217.2	1188.2
21°	1076.7	1084.0	1096.3	1072.4	1040.5
22°	944.2	953.6	965.2	937.7	904.4
23°	820.4	842.1	846.5	808.8	780.6
24°	706.7	731.3	738.6	700.2	670.5
25°	605.3	632.9	649.5	604.6	574.9
26°	517.7	544.5	564.8	519.9	491.7
27°	441.0	469.2	490.2	448.2	421.4
28°	375.1	402.6	424.3	385.2	359.9
29°	325.8	341.8	363.5	330.9	307.7
30°	277.3	294.7	317.9	284.6	264.3
32.5°	190.4	199.9	218.0	197.7	181.7
35°	135.4	141.2	149.9	136.1	126.7
37.5°	96.3	99.2	104.3	96.3	91.2
40°	71.0	72.4	74.6	70.2	67.3
42.5°	52.9	53.6	53.6	52.1	50.7
45°	39.8	40.5	39.8	39.8	38.4
47.5°	29.0	31.1	30.4	30.4	28.2
50°	18.8	23.2	23.2	22.4	18.8
52.5°	11.6	15.9	18.1	15.9	12.3
55°	8.7	10.9	13.8	10.9	9.4
57.5°	8.7	8.7	10.1	8.7	8.7
60°	8.7	8.7	8.7	8.7	8.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	8.0	8.0	8.0	8.0	8.0
70°	8.0	8.0	7.2	8.0	8.0
72.5°	7.2	7.2	6.5	7.2	6.5
75°	5.8	5.8	5.8	5.8	5.8
77.5°	4.3	4.3	4.3	4.3	4.3
80°	3.6	3.6	3.6	3.6	3.6
82.5°	2.2	2.2	2.2	2.9	2.2
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°	8.7	8.7	8.7	8.7	8.7
65°	8.0	8.7	8.0	8.7	8.0



(END OF REPORT)