

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: P283640

Luminaire Tested: **LDA2B158035D010 EU2B15FL408035 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283640
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: LDA2B158035D010 EU2B15FL408035 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1280.9 lumens
Efficiency: N/A
Efficacy: 90.8 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

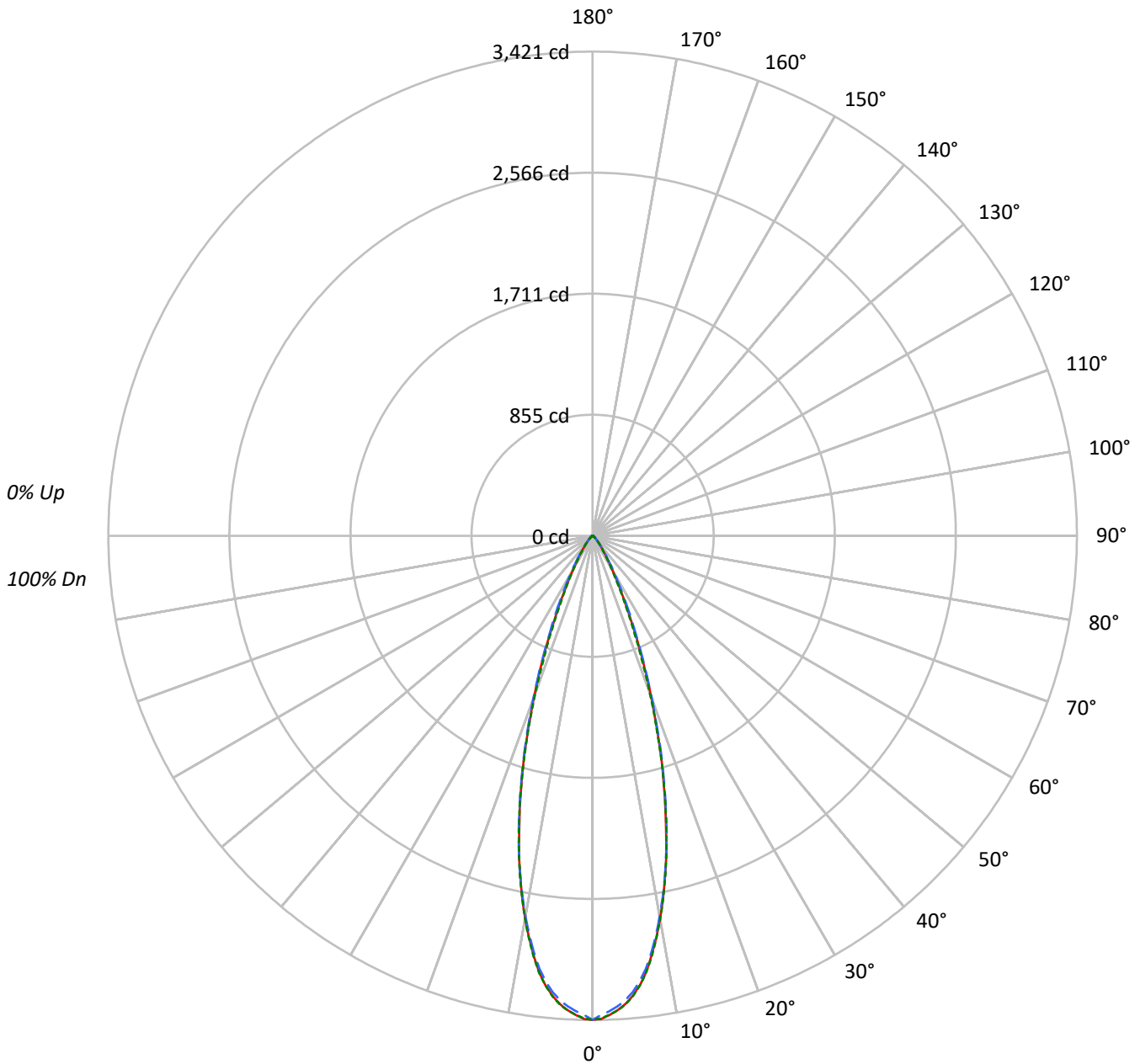
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1687643	1687643	1687643
5°	1615097	1602964	1617574
10°	1375972	1367355	1377424
15°	1014176	1020765	1017496
20°	633127	644783	619162
25°	327054	350897	310614
30°	156777	179736	149428
35°	80947	89620	75767
40°	45340	47659	43022
45°	27560	27560	26583
50°	14353	17653	14353
55°	7397	11784	7999
60°	8486	8486	8486
65°	9222	9222	9222
70°	11396	10386	11396
75°	10865	10865	10865
80°	10228	10228	10228
85°	7925	7925	7925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.2	23.0
10°-20°	540.5	42.2
20°-30°	293.0	22.9
30°-40°	94.1	7.3
40°-50°	32.1	2.5
50°-60°	11.2	0.9
60°-70°	8.2	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°	1127.7	88.0
0°-40°	1221.7	95.4
0°-60°	1265.0	98.8
0°-90°	1280.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1280.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3421	3421	3421	3421	3421	
5°	3261	3241	3237	3269	3266	295
15°	1986	2002	1998	2008	1992	538
25°	601	628	645	600	571	288
35°	134	140	149	135	126	91
45°	40	40	40	40	38	31
55°	9	11	14	11	9	9
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°	3420.7	3420.7	3420.7	3420.7	3420.7
1°	3415.0	3390.5	3386.9	3418.5	3411.4
2°	3387.6	3364.6	3361.1	3392.7	3386.2
3°	3357.5	3336.6	3329.4	3362.5	3358.2
4°	3317.2	3297.8	3291.3	3324.4	3320.8
5°	3261.2	3241.0	3236.7	3269.1	3266.2
6°	3192.2	3175.6	3167.7	3200.1	3194.3
7°	3105.9	3090.8	3082.2	3105.9	3108.8
8°	2993.8	2986.6	2976.6	3000.3	3000.3
9°	2874.5	2868.1	2857.3	2878.8	2878.8
10°	2746.6	2742.3	2729.4	2749.5	2749.5
11°	2606.5	2604.3	2595.0	2611.5	2611.5
12°	2459.2	2464.2	2455.6	2469.9	2464.9
13°	2311.8	2309.7	2310.4	2321.2	2313.3
14°	2145.1	2158.1	2160.2	2166.7	2154.5
15°	1985.6	2002.1	1998.5	2007.9	1992.1
16°	1822.5	1841.1	1840.4	1842.6	1827.5
17°	1670.1	1680.9	1681.6	1679.4	1660.8
18°	1507.7	1522.8	1522.8	1519.2	1496.9
19°	1348.9	1360.4	1368.3	1360.4	1334.5
20°	1205.9	1213.8	1228.1	1208.0	1179.3
21°	1068.6	1075.8	1088.0	1064.3	1032.7
22°	937.1	946.4	957.9	930.6	897.6
23°	814.2	835.8	840.1	802.7	774.7
24°	701.4	725.8	733.0	694.9	665.5
25°	600.8	628.1	644.6	600.1	570.6
26°	513.8	540.4	560.5	516.0	488.0
27°	437.6	465.7	486.5	444.8	418.2
28°	372.3	399.6	421.1	382.3	357.2
29°	323.4	339.2	360.8	328.4	305.4
30°	275.2	292.5	315.5	282.4	262.3
32.5°	189.0	198.3	216.3	196.2	180.4
35°	134.4	140.1	148.8	135.1	125.8
37.5°	95.6	98.5	103.5	95.6	90.5
40°	70.4	71.9	74.0	69.7	66.8
42.5°	52.5	53.2	53.2	51.7	50.3
45°	39.5	40.2	39.5	39.5	38.1
47.5°	28.7	30.9	30.2	30.2	28.0
50°	18.7	23.0	23.0	22.3	18.7
52.5°	11.5	15.8	18.0	15.8	12.2
55°	8.6	10.8	13.7	10.8	9.3
57.5°	8.6	8.6	10.1	8.6	8.6
60°	8.6	8.6	8.6	8.6	8.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	7.9	7.9	7.9	7.9	7.9
70°	7.9	7.9	7.2	7.9	7.9
72.5°	7.2	7.2	6.5	7.2	6.5
75°	5.7	5.7	5.7	5.7	5.7
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°	8.6	8.6	8.6	8.6	8.6
65°	7.9	8.6	7.9	8.6	7.9



(END OF REPORT)