

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: P283634

Luminaire Tested: **LDA2B158030D010 EU2B15FL408030 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283634
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 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: 1266.8 lumens
Efficiency: N/A
Efficacy: 89.8 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

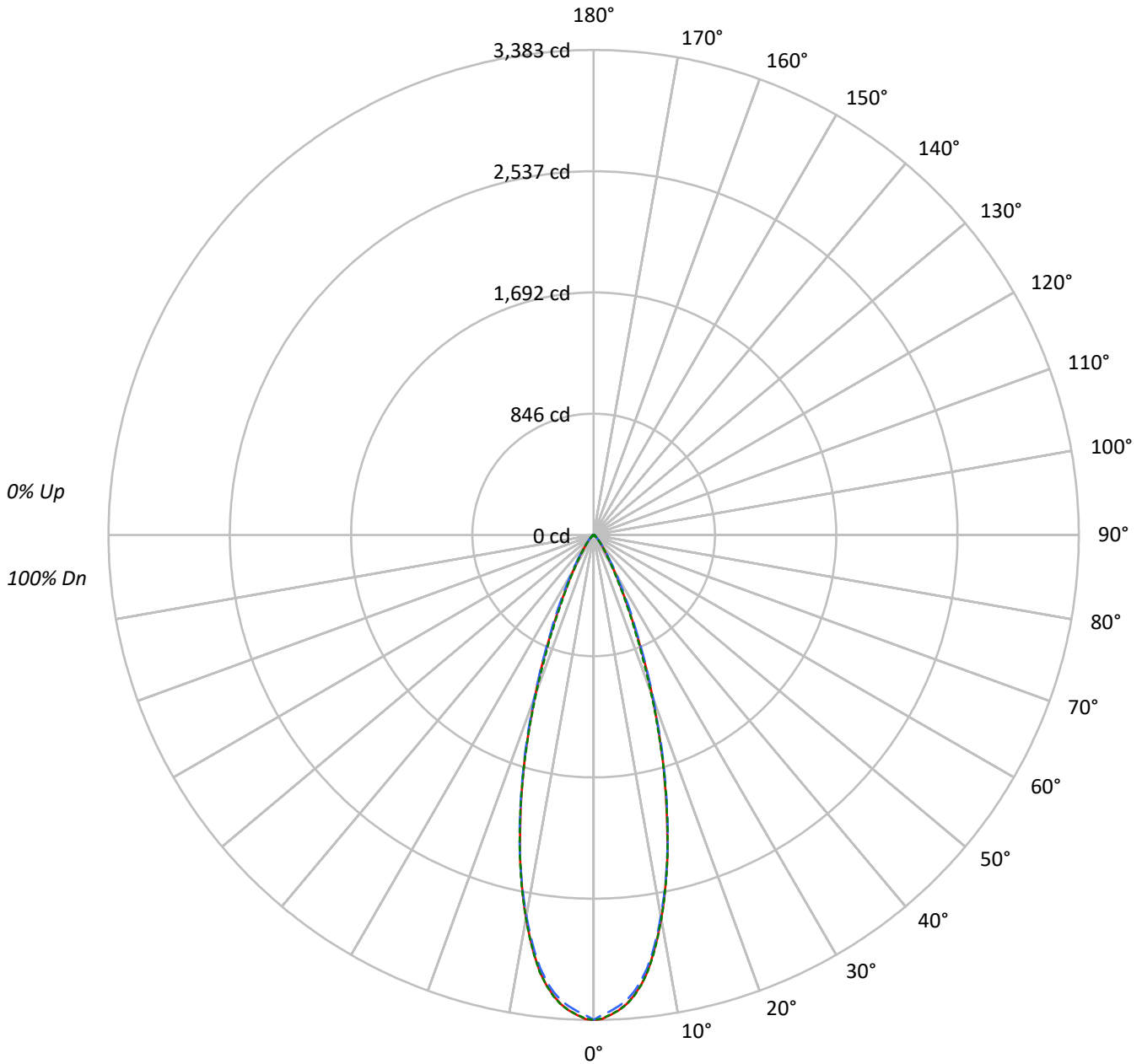
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1669142	1669142	1669142
5°	1597368	1585383	1599794
10°	1360892	1352326	1362295
15°	1003042	1009579	1006311
20°	626144	637747	612336
25°	323461	347032	307185
30°	155068	177742	147776
35°	80043	88596	74924
40°	44889	47144	42571
45°	27281	27281	26304
50°	14199	17423	14199
55°	7311	11612	7913
60°	8387	8387	8387
65°	9106	9106	9106
70°	11251	10242	11251
75°	10865	10865	10865
80°	10228	10228	10228
85°	7925	7925	7925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.0	23.0
10°-20°	534.5	42.2
20°-30°	289.8	22.9
30°-40°	93.0	7.3
40°-50°	31.7	2.5
50°-60°	11.1	0.9
60°-70°	8.1	0.6
70°-80°	5.9	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°	1115.3	88.0
0°-40°	1208.3	95.4
0°-60°	1251.2	98.8
0°-90°	1266.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1266.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3383	3383	3383	3383	3383	
5°	3225	3206	3201	3233	3230	292
15°	1964	1980	1977	1986	1970	532
25°	594	621	638	594	564	285
35°	133	139	147	134	124	90
45°	39	40	39	39	38	31
55°	8	11	14	11	9	9
65°	8	8	8	8	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°	3383.2	3383.2	3383.2	3383.2	3383.2
1°	3377.5	3353.3	3349.8	3381.0	3373.9
2°	3350.5	3327.7	3324.2	3355.4	3349.0
3°	3320.6	3300.0	3292.9	3325.6	3321.3
4°	3280.8	3261.6	3255.2	3287.9	3284.4
5°	3225.4	3205.5	3201.2	3233.2	3230.3
6°	3157.1	3140.8	3133.0	3165.0	3159.3
7°	3071.9	3056.9	3048.4	3071.9	3074.7
8°	2961.0	2953.9	2943.9	2967.4	2967.4
9°	2843.0	2836.6	2825.9	2847.3	2847.3
10°	2716.5	2712.2	2699.4	2719.3	2719.3
11°	2577.9	2575.8	2566.5	2582.9	2582.9
12°	2432.2	2437.2	2428.6	2442.8	2437.9
13°	2286.5	2284.3	2285.1	2295.7	2287.9
14°	2121.6	2134.4	2136.5	2142.9	2130.8
15°	1963.8	1980.1	1976.6	1985.8	1970.2
16°	1802.5	1820.9	1820.2	1822.4	1807.4
17°	1651.8	1662.4	1663.2	1661.0	1642.5
18°	1491.1	1506.1	1506.1	1502.5	1480.5
19°	1334.1	1345.4	1353.3	1345.4	1319.9
20°	1192.6	1200.5	1214.7	1194.8	1166.3
21°	1056.9	1064.0	1076.1	1052.6	1021.3
22°	926.8	936.1	947.4	920.4	887.7
23°	805.3	826.6	830.9	793.9	766.2
24°	693.7	717.9	725.0	687.3	658.2
25°	594.2	621.2	637.5	593.5	564.3
26°	508.2	534.5	554.4	510.3	482.6
27°	432.8	460.6	481.2	440.0	413.7
28°	368.2	395.2	416.5	378.1	353.2
29°	319.8	335.5	356.8	324.8	302.1
30°	272.2	289.3	312.0	279.3	259.4
32.5°	186.9	196.2	213.9	194.0	178.4
35°	132.9	138.6	147.1	133.6	124.4
37.5°	94.5	97.4	102.3	94.5	89.6
40°	69.7	71.1	73.2	68.9	66.1
42.5°	51.9	52.6	52.6	51.2	49.8
45°	39.1	39.8	39.1	39.1	37.7
47.5°	28.4	30.6	29.9	29.9	27.7
50°	18.5	22.7	22.7	22.0	18.5
52.5°	11.4	15.6	17.8	15.6	12.1
55°	8.5	10.7	13.5	10.7	9.2
57.5°	8.5	8.5	10.0	8.5	8.5
60°	8.5	8.5	8.5	8.5	8.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	7.8	7.8	7.8	7.8	7.8
70°	7.8	7.8	7.1	7.8	7.8
72.5°	7.1	7.1	6.4	7.1	6.4
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°	2.1	2.1	2.1	2.8	2.1
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°	8.5	8.5	8.5	8.5	8.5
65°	7.8	8.5	7.8	8.5	7.8



(END OF REPORT)