

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: P283642

Luminaire Tested: **LDA2B158035D010 EU2B15FL408035 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283642
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 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1266.5 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

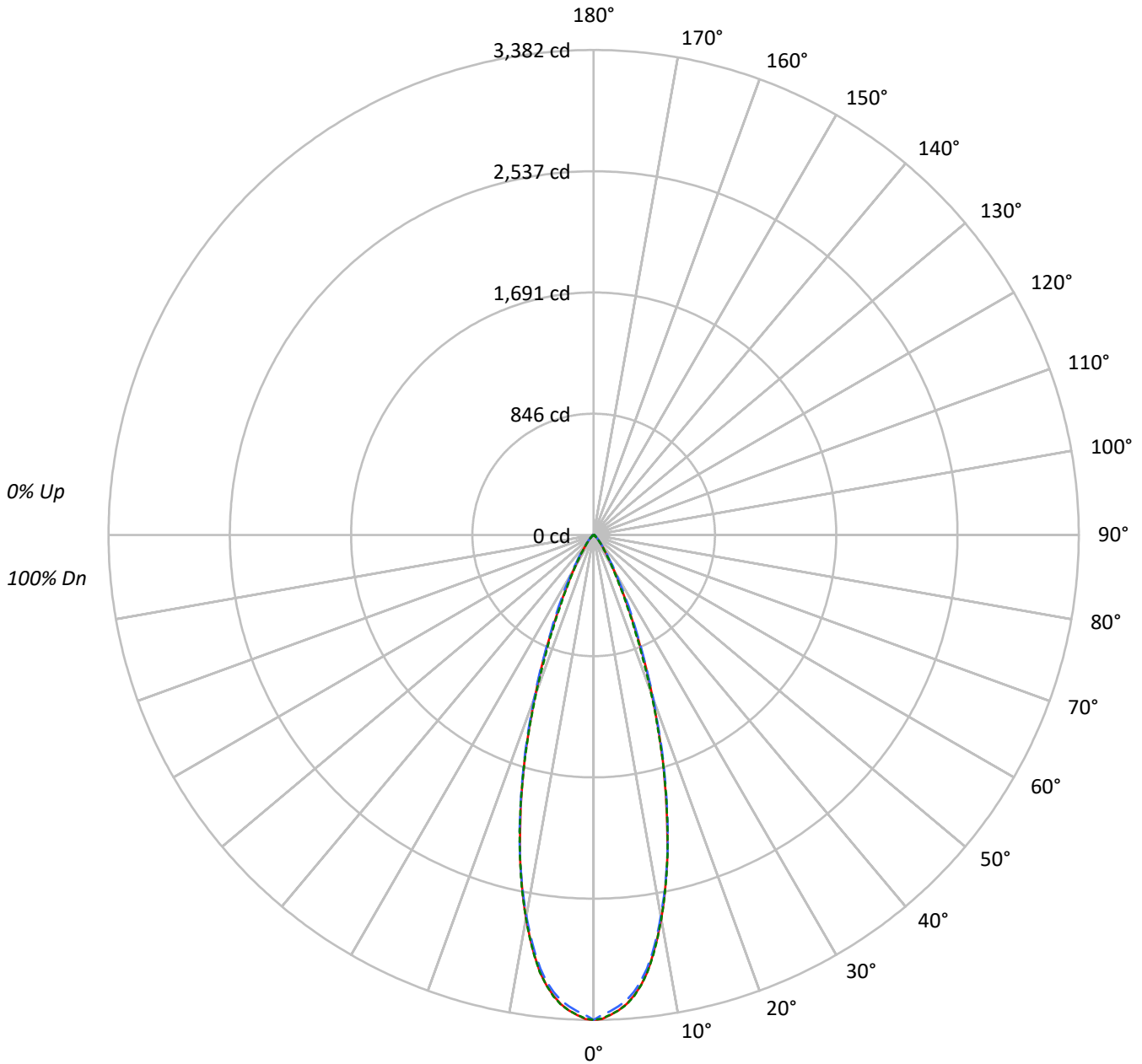
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1668698	1668698	1668698
5°	1596971	1584986	1599398
10°	1360542	1351975	1361944
15°	1002786	1009324	1006055
20°	625987	637590	612179
25°	323353	346978	307130
30°	155011	177685	147776
35°	80043	88596	74864
40°	44825	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°	290.9	23.0
10°-20°	534.4	42.2
20°-30°	289.7	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°	1115.0	88.0
0°-40°	1208.0	95.4
0°-60°	1250.8	98.8
0°-90°	1266.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1266.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3382	3382	3382	3382	3382	
5°	3225	3205	3200	3232	3230	292
15°	1963	1980	1976	1985	1970	532
25°	594	621	637	593	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°	3382.3	3382.3	3382.3	3382.3	3382.3
1°	3376.6	3352.5	3348.9	3380.2	3373.1
2°	3349.6	3326.9	3323.3	3354.6	3348.2
3°	3319.8	3299.2	3292.1	3324.8	3320.5
4°	3280.0	3260.8	3254.4	3287.1	3283.5
5°	3224.6	3204.7	3200.4	3232.4	3229.5
6°	3156.3	3140.0	3132.2	3164.2	3158.5
7°	3071.1	3056.2	3047.6	3071.1	3073.9
8°	2960.2	2953.1	2943.2	2966.6	2966.6
9°	2842.3	2835.9	2825.2	2846.5	2846.5
10°	2715.8	2711.5	2698.7	2718.6	2718.6
11°	2577.2	2575.1	2565.9	2582.2	2582.2
12°	2431.6	2436.5	2428.0	2442.2	2437.3
13°	2285.9	2283.8	2284.5	2295.1	2287.3
14°	2121.0	2133.8	2136.0	2142.4	2130.3
15°	1963.3	1979.6	1976.1	1985.3	1969.7
16°	1802.0	1820.5	1819.8	1821.9	1807.0
17°	1651.4	1662.0	1662.7	1660.6	1642.1
18°	1490.8	1505.7	1505.7	1502.1	1480.1
19°	1333.7	1345.1	1352.9	1345.1	1319.5
20°	1192.3	1200.2	1214.4	1194.5	1166.0
21°	1056.6	1063.7	1075.8	1052.4	1021.1
22°	926.6	935.8	947.2	920.2	887.5
23°	805.1	826.4	830.7	793.7	766.0
24°	693.5	717.7	724.8	687.1	658.0
25°	594.0	621.0	637.4	593.3	564.2
26°	508.1	534.3	554.2	510.2	482.5
27°	432.7	460.4	481.1	439.8	413.6
28°	368.1	395.1	416.4	378.0	353.2
29°	319.8	335.4	356.7	324.7	302.0
30°	272.1	289.2	311.9	279.3	259.4
32.5°	186.9	196.1	213.9	194.0	178.4
35°	132.9	138.6	147.1	133.6	124.3
37.5°	94.5	97.3	102.3	94.5	89.5
40°	69.6	71.1	73.2	68.9	66.1
42.5°	51.9	52.6	52.6	51.2	49.7
45°	39.1	39.8	39.1	39.1	37.7
47.5°	28.4	30.6	29.8	29.8	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	9.9	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)