

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: P283802

Luminaire Tested: **LDA2B058030D010 EU2B05WFL558030 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283802
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-61)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B058030D010 EU2B05WFL558030 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 733.4 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

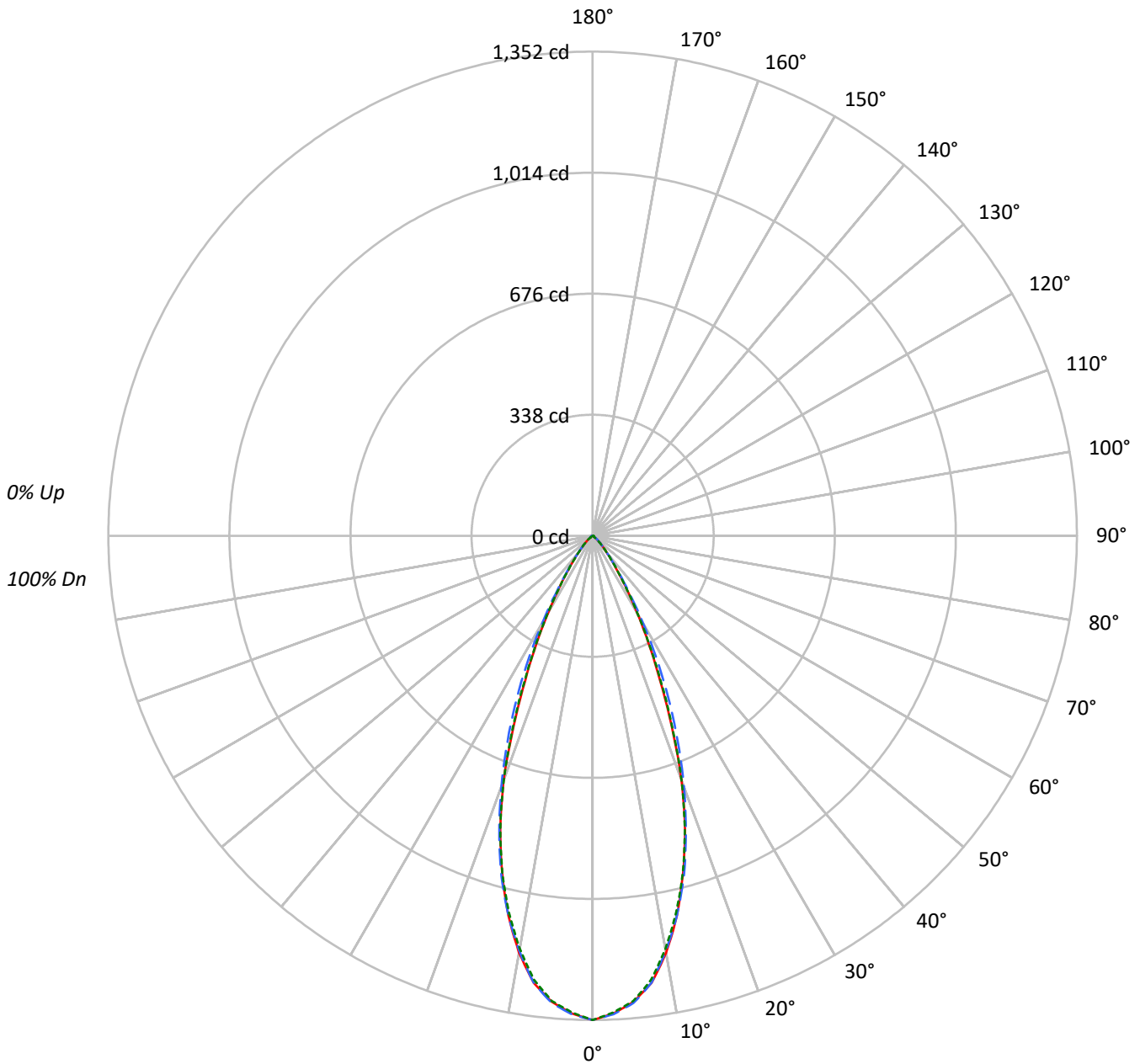
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89																			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84																			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79																			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75																			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71																			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67																			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64																			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61																			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	667124	667124	667124
5°	647089	648674	645752
10°	592300	589945	586389
15°	498201	502849	497435
20°	381010	391143	380380
25°	241970	272781	246652
30°	140712	158885	143162
35°	74382	79140	74623
40°	39286	41025	39286
45°	21978	22746	22257
50°	10285	12971	10285
55°	3699	7139	4043
60°	4243	4243	4243
65°	4553	5020	4553
70°	5626	5049	5626
75°	5337	5337	5337
80°	5682	4546	5682
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.7	16.5
10°-20°	268.8	36.6
20°-30°	217.1	29.6
30°-40°	85.8	11.7
40°-50°	26.3	3.6
50°-60°	6.8	0.9
60°-70°	4.1	0.6
70°-80°	3.0	0.4
80°-90°	0.9	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°	606.5	82.7
0°-40°	692.3	94.4
0°-60°	725.4	98.9
0°-90°	733.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	733.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1352	1352	1352	1352	1352	
5°	1307	1309	1310	1307	1304	121
15°	975	978	984	981	974	268
25°	444	466	501	474	453	207
35°	124	127	131	127	124	83
45°	32	32	33	32	32	26
55°	4	6	8	6	5	5
65°	4	4	4	4	4	4
75°	3	3	3	3	3	3
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°	1352.2	1352.2	1352.2	1352.2	1352.2
2.5°	1335.3	1336.1	1337.3	1335.7	1331.8
5°	1306.6	1309.0	1309.8	1307.0	1303.9
7.5°	1259.4	1256.7	1259.0	1254.3	1250.4
10°	1182.3	1178.8	1177.6	1170.5	1170.5
12.5°	1087.1	1086.0	1086.7	1083.2	1077.7
15°	975.4	978.2	984.5	980.6	973.9
17.5°	857.0	861.0	866.5	865.3	856.3
20°	725.7	737.1	745.0	737.5	724.5
22.5°	576.2	600.6	620.7	604.9	583.7
25°	444.5	465.7	501.1	474.3	453.1
27.5°	337.1	352.4	384.7	358.3	343.8
30°	247.0	256.4	278.9	261.6	251.3
32.5°	176.6	183.3	192.7	182.5	177.4
35°	123.5	127.0	131.4	127.4	123.9
37.5°	86.9	88.1	91.3	88.1	86.5
40°	61.0	61.4	63.7	61.8	61.0
42.5°	44.1	44.1	45.2	44.4	44.1
45°	31.5	31.9	32.6	32.3	31.9
47.5°	22.4	23.2	23.2	23.6	22.0
50°	13.4	16.5	16.9	16.5	13.4
52.5°	7.1	9.8	12.2	9.8	7.1
55°	4.3	5.9	8.3	5.9	4.7
57.5°	4.3	4.3	5.5	4.7	4.3
60°	4.3	4.3	4.3	4.3	4.3
62.5°	4.3	4.3	4.3	4.3	4.3
65°	3.9	4.3	4.3	4.3	3.9
67.5°	3.9	3.9	3.9	3.9	3.9
70°	3.9	3.9	3.5	3.9	3.9
72.5°	3.5	3.5	3.1	3.5	3.5
75°	2.8	2.8	2.8	2.8	2.8
77.5°	2.4	2.4	2.4	2.4	2.4
80°	2.0	2.0	1.6	2.0	2.0
82.5°	1.2	1.2	1.2	1.2	1.2
85°	0.8	0.8	0.8	0.8	0.8
87.5°	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)