

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: P225231

Luminaire Tested: **LD2B15D010 EU2B15FL409050 2LBDSQLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14838)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B15D010 EU2B15FL409050 2LBDSQLC*MB
Description: 1500 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
LENSED SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1056.0 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.61 / 0.59
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

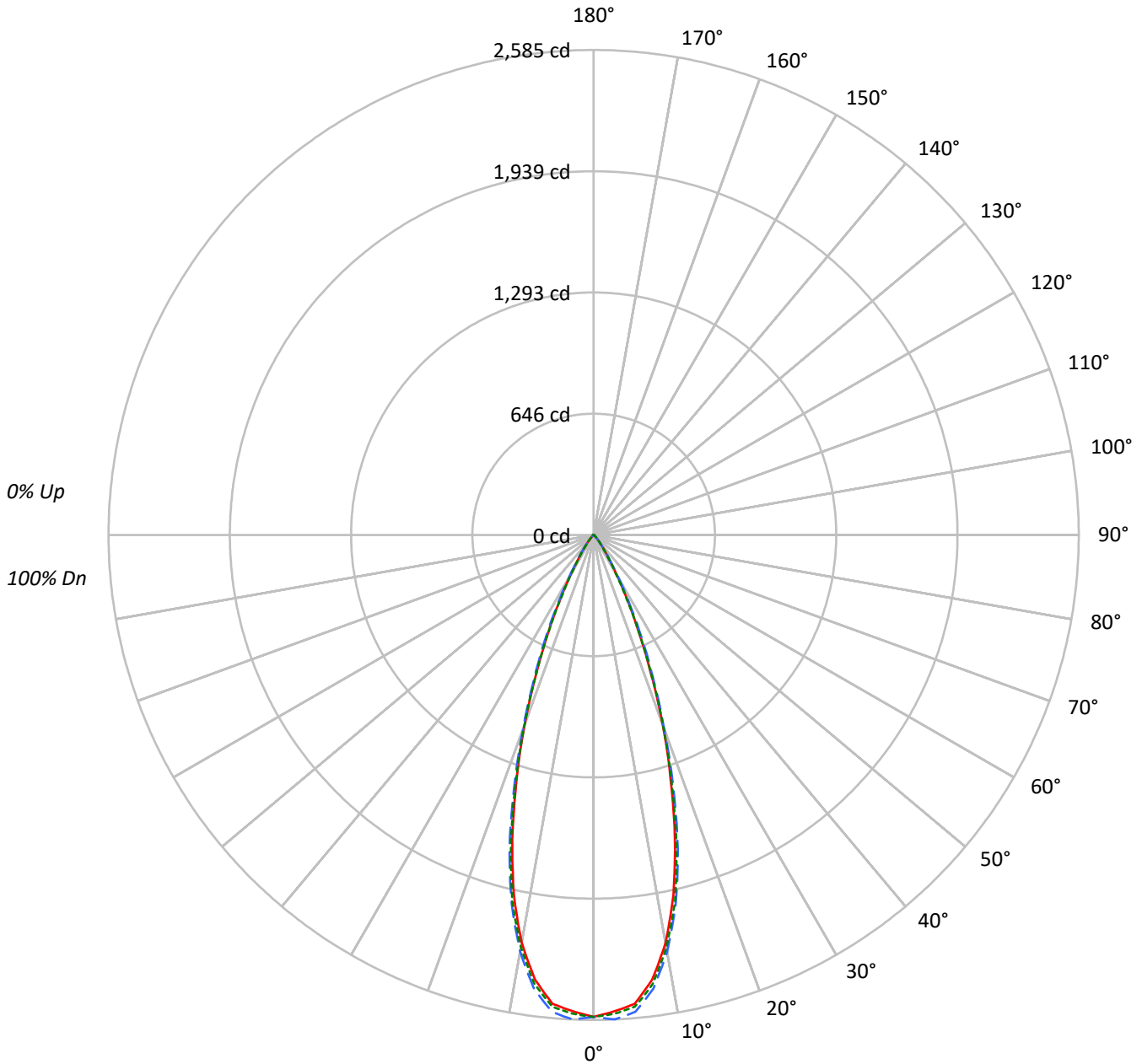
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96					96			
2	110	106	103	100	108	105	102	99	101	99	97	98	97	95	96	94	93	91					91			
3	106	101	97	94	104	99	96	93	97	94	91	95	92	90	92	90	89	87					87			
4	102	96	92	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83					83			
5	98	92	87	84	97	91	86	83	89	85	82	88	84	82	86	83	81	80					80			
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	77					77			
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73					73			
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71					71			
9	85	78	73	70	84	77	73	70	76	72	69	76	72	69	75	71	69	68					68			
10	82	75	70	67	82	74	70	67	74	70	67	73	69	67	72	69	66	65					65			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	995131	995131	995131
5°	975486	992244	981629
10°	868060	886743	877697
15°	670689	694910	682800
20°	442420	451900	444810
25°	241347	257929	242586
30°	108597	120181	104124
35°	46861	48232	42794
40°	19619	20327	18153
45°	7888	8655	8655
50°	3435	4339	4339
55°	1958	1958	2904
60°	1085	1085	1085
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.2	22.0
10°-20°	462.3	43.8
20°-30°	273.0	25.9
30°-40°	71.1	6.7
40°-50°	14.1	1.3
50°-60°	3.1	0.3
60°-70°	0.3	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	967.5	91.6
0°-40°	1038.6	98.4
0°-60°	1055.7	100.0
0°-90°	1056.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1056.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2569	2569	2569	2569	2569	
5°	2509	2529	2552	2535	2525	230
15°	1672	1710	1733	1707	1703	454
25°	565	583	604	580	568	266
35°	99	104	102	101	90	69
45°	14	17	16	16	16	13
55°	3	3	3	3	4	3
65°	0	0	0	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2569.1	2569.1	2569.1	2569.1	2569.1
2.5°	2541.8	2567.7	2584.9	2570.6	2554.8
5°	2508.8	2528.9	2551.9	2534.7	2524.6
7.5°	2391.0	2421.1	2438.4	2429.8	2414.0
10°	2207.0	2230.0	2254.5	2245.8	2231.5
12.5°	1964.2	1995.8	2018.8	1998.7	2001.6
15°	1672.5	1709.9	1732.9	1707.0	1702.7
17.5°	1363.6	1392.3	1408.1	1392.3	1380.8
20°	1073.3	1090.6	1096.3	1089.2	1079.1
22.5°	793.2	811.8	829.1	811.8	798.9
25°	564.7	583.4	603.5	580.5	567.6
27.5°	380.8	392.3	409.5	388.0	369.3
30°	242.8	255.8	268.7	252.9	232.8
32.5°	153.7	162.4	163.8	160.9	143.7
35°	99.1	103.5	102.0	100.6	90.5
37.5°	63.2	63.2	64.7	63.2	57.5
40°	38.8	41.7	40.2	38.8	35.9
42.5°	23.0	25.9	24.4	24.4	23.0
45°	14.4	17.2	15.8	15.8	15.8
47.5°	10.1	11.5	10.1	10.1	11.5
50°	5.7	7.2	7.2	7.2	7.2
52.5°	4.3	4.3	4.3	4.3	5.7
55°	2.9	2.9	2.9	2.9	4.3
57.5°	2.9	2.9	1.4	1.4	2.9
60°	1.4	1.4	1.4	1.4	1.4
62.5°	1.4	0.0	0.0	0.0	1.4
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)