

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: P225250

Luminaire Tested: **LD2B10D010 EU2B10FL408035 2LBDSQLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225250
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: LD2B10D010 EU2B10FL408035 2LBDSQLC*MB
Description: 1000 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: 903.3 lumens
Efficiency: N/A
Efficacy: 87.7 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

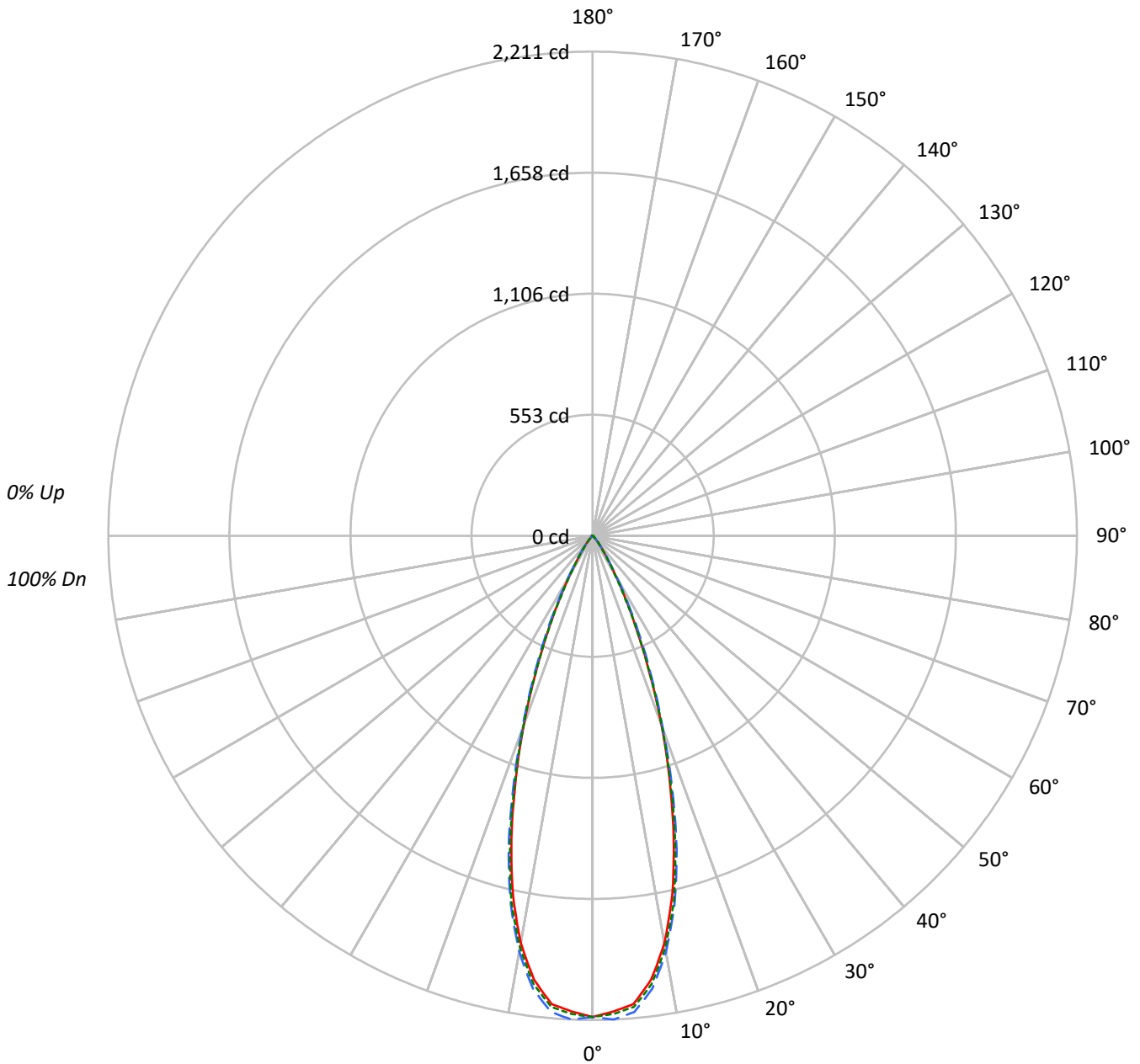
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	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°	851232	851232	851232
5°	834420	848767	839669
10°	742552	758520	750772
15°	573725	594417	584071
20°	378445	386566	380506
25°	206429	220618	207497
30°	92898	102782	89051
35°	40099	41281	36600
40°	16787	17394	15523
45°	6738	7395	7395
50°	2953	3676	3676
55°	1688	1688	2499
60°	930	930	930
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°	198.6	22.0
10°-20°	395.4	43.8
20°-30°	233.6	25.9
30°-40°	60.8	6.7
40°-50°	12.0	1.3
50°-60°	2.6	0.3
60°-70°	0.2	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°	827.6	91.6
0°-40°	888.4	98.4
0°-60°	903.1	100.0
0°-90°	903.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	903.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2198	2198	2198	2198	2198	
5°	2146	2163	2183	2168	2160	196
15°	1431	1463	1482	1460	1456	388
25°	483	499	516	497	486	228
35°	85	88	87	86	77	59
45°	12	15	14	14	14	11
55°	2	2	2	2	4	3
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2197.6	2197.6	2197.6	2197.6	2197.6
2.5°	2174.3	2196.4	2211.2	2198.9	2185.3
5°	2146.0	2163.2	2182.9	2168.1	2159.5
7.5°	2045.2	2071.0	2085.8	2078.4	2064.9
10°	1887.9	1907.6	1928.5	1921.1	1908.8
12.5°	1680.2	1707.2	1726.9	1709.7	1712.1
15°	1430.7	1462.6	1482.3	1460.2	1456.5
17.5°	1166.4	1191.0	1204.5	1191.0	1181.2
20°	918.1	932.9	937.8	931.7	923.1
22.5°	678.5	694.4	709.2	694.4	683.4
25°	483.0	499.0	516.2	496.6	485.5
27.5°	325.7	335.5	350.3	331.9	315.9
30°	207.7	218.8	229.8	216.3	199.1
32.5°	131.5	138.9	140.1	137.7	122.9
35°	84.8	88.5	87.3	86.0	77.4
37.5°	54.1	54.1	55.3	54.1	49.2
40°	33.2	35.6	34.4	33.2	30.7
42.5°	19.7	22.1	20.9	20.9	19.7
45°	12.3	14.7	13.5	13.5	13.5
47.5°	8.6	9.8	8.6	8.6	9.8
50°	4.9	6.1	6.1	6.1	6.1
52.5°	3.7	3.7	3.7	3.7	4.9
55°	2.5	2.5	2.5	2.5	3.7
57.5°	2.5	2.5	1.2	1.2	2.5
60°	1.2	1.2	1.2	1.2	1.2
62.5°	1.2	0.0	0.0	0.0	1.2
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)