

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: P#

Luminaire Tested: **LD2B15D010 EU2B15WFL558027 2LBDSQLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14812)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B15D010 EU2B15WFL558027 2LBDSQLC*MB
Description: 1500 Lumen, 2inch Portfolio LED Downlight
WIDE FLOOD OPTIC
LENSED SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1104.4 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.76 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

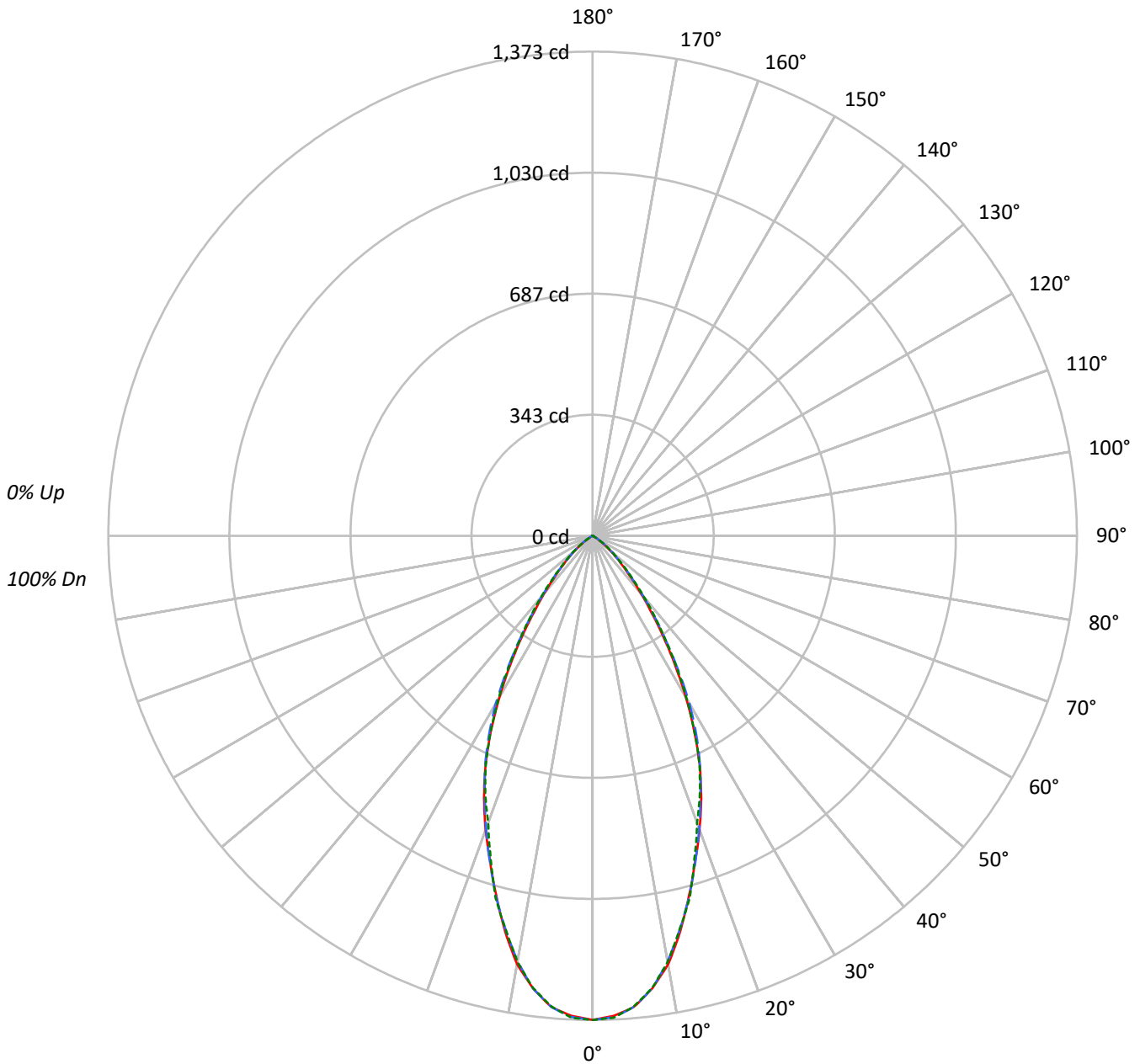
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: LD2B15D010 EU2B15WFL558027 2LBDSQLC*MB

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD2B15D010 EU2B15WFL558027 2LBDSQLC*MB

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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93				93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86				86
3	102	95	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80				80
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	79	76	74				74
5	92	83	77	73	90	82	77	72	80	75	72	79	74	71	77	73	70	69				69
6	87	78	72	67	85	77	71	67	76	70	67	74	70	66	73	69	66	64				64
7	83	73	67	63	81	72	67	62	71	66	62	70	65	62	69	65	61	60				60
8	78	69	63	58	77	68	62	58	67	62	58	66	61	58	65	61	58	56				56
9	75	65	59	55	74	64	59	55	63	58	54	62	58	54	62	57	54	53				53
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	50				50

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	531826	531826	531826
5°	521687	521687	520987
10°	485241	481779	482487
15°	423427	424148	426234
20°	365585	364142	356970
25°	306823	308318	306053
30°	236158	245506	238484
35°	164792	171365	169710
40°	107500	111899	115439
45°	65844	69679	72527
50°	38868	42001	44111
55°	16478	21205	19989
60°	2711	5423	4028
65°	1558	1558	1558
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: LD2B15D010 EU2B15WFL558027 2LBDSQLC*MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.4	11.3
10°-20°	294.3	26.6
20°-30°	326.0	29.5
30°-40°	226.8	20.5
40°-50°	102.1	9.2
50°-60°	28.8	2.6
60°-70°	2.0	0.2
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°	744.6	67.4
0°-40°	971.5	88.0
0°-60°	1102.4	99.8
0°-90°	1104.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1104.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1373	1373	1373	1373	1373	
5°	1342	1347	1342	1336	1340	124
15°	1056	1061	1058	1056	1063	295
25°	718	723	721	713	716	325
35°	348	359	362	362	359	220
45°	120	124	127	131	132	97
55°	24	28	31	31	30	25
65°	2	2	2	2	2	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: LD2B15D010 EU2B15WFL558027 2LBDSQLC*MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1373.0	1373.0	1373.0	1373.0	1373.0
2.5°	1362.6	1369.6	1366.1	1366.1	1367.8
5°	1341.7	1346.9	1341.7	1336.5	1339.9
7.5°	1294.6	1299.9	1294.6	1291.2	1292.9
10°	1233.7	1230.2	1224.9	1221.5	1226.7
12.5°	1148.3	1146.5	1143.0	1141.3	1141.3
15°	1055.9	1061.1	1057.7	1055.9	1062.9
17.5°	967.1	972.3	968.8	963.6	960.1
20°	886.9	888.6	883.4	874.7	866.0
22.5°	805.0	806.8	798.0	794.6	794.6
25°	717.9	723.1	721.4	712.7	716.1
27.5°	623.8	632.5	636.0	625.5	625.5
30°	528.0	534.9	548.9	534.9	533.2
32.5°	433.9	444.3	451.3	449.6	444.3
35°	348.5	358.9	362.4	362.4	358.9
37.5°	271.8	282.3	285.8	289.2	289.2
40°	212.6	217.8	221.3	226.5	228.3
42.5°	160.3	165.5	170.8	174.2	172.5
45°	120.2	123.7	127.2	130.7	132.4
47.5°	90.6	90.6	94.1	97.6	97.6
50°	64.5	68.0	69.7	71.4	73.2
52.5°	43.6	45.3	48.8	50.5	48.8
55°	24.4	27.9	31.4	31.4	29.6
57.5°	10.5	15.7	17.4	17.4	13.9
60°	3.5	7.0	7.0	8.7	5.2
62.5°	1.7	3.5	3.5	3.5	1.7
65°	1.7	1.7	1.7	1.7	1.7
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



Report Generated By E9808895 / USPTCWHP6082093





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







(END OF REPORT)