

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 EU2B15WFL558030 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 EU2B15WFL558030 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: 1126.0 lumens
Efficiency: N/A
Efficacy: 78.7 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

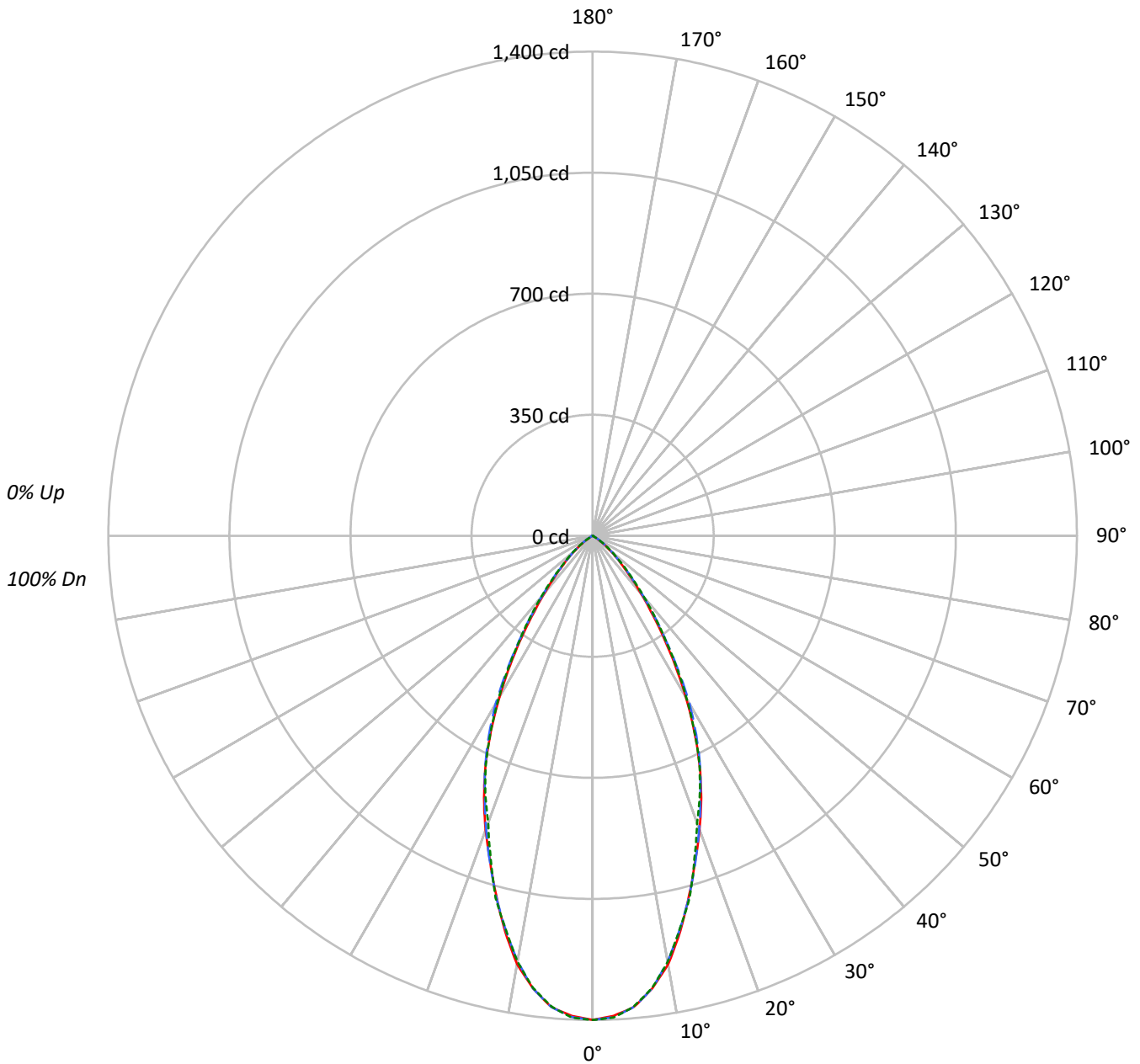
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: LD2B15D010 EU2B15WFL558030 2LBDSQLC*MB

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD2B15D010 EU2B15WFL558030 2LBDSQLC*MB

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	542246	542246	542246
5°	531875	531875	531175
10°	494720	491219	491927
15°	431727	432409	434575
20°	372757	371273	363936
25°	312806	314345	312079
30°	240765	250292	243135
35°	168008	174723	173068
40°	109573	114073	117663
45°	67159	71048	73952
50°	39591	42845	44954
55°	16815	21610	20395
60°	2789	5500	4106
65°	1650	1650	1650
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: LD2B15D010 EU2B15WFL558030 2LBDSQLC*MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.8	11.3
10°-20°	300.0	26.6
20°-30°	332.4	29.5
30°-40°	231.3	20.5
40°-50°	104.1	9.2
50°-60°	29.4	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°	759.2	67.4
0°-40°	990.5	88.0
0°-60°	1124.0	99.8
0°-90°	1126.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1126.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1400	1400	1400	1400	1400	
5°	1368	1373	1368	1363	1366	127
15°	1077	1082	1078	1077	1084	301
25°	732	737	736	727	730	332
35°	355	366	370	370	366	224
45°	123	126	130	133	135	99
55°	25	28	32	32	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 EU2B15WFL558030 2LBDSQLC*MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1399.9	1399.9	1399.9	1399.9	1399.9
2.5°	1389.2	1396.3	1392.8	1392.8	1394.6
5°	1367.9	1373.3	1367.9	1362.6	1366.1
7.5°	1320.0	1325.3	1320.0	1316.4	1318.2
10°	1257.8	1254.2	1248.9	1245.3	1250.7
12.5°	1170.7	1169.0	1165.4	1163.6	1163.6
15°	1076.6	1081.9	1078.3	1076.6	1083.7
17.5°	986.0	991.3	987.7	982.4	978.9
20°	904.3	906.0	900.7	891.8	882.9
22.5°	820.8	822.5	813.6	810.1	810.1
25°	731.9	737.3	735.5	726.6	730.2
27.5°	636.0	644.9	648.4	637.8	637.8
30°	538.3	545.4	559.6	545.4	543.6
32.5°	442.4	453.0	460.1	458.3	453.0
35°	355.3	366.0	369.5	369.5	366.0
37.5°	277.1	287.8	291.3	294.9	294.9
40°	216.7	222.1	225.6	230.9	232.7
42.5°	163.4	168.8	174.1	177.7	175.9
45°	122.6	126.1	129.7	133.2	135.0
47.5°	92.4	92.4	95.9	99.5	99.5
50°	65.7	69.3	71.1	72.8	74.6
52.5°	44.4	46.2	49.7	51.5	49.7
55°	24.9	28.4	32.0	32.0	30.2
57.5°	10.7	16.0	17.8	17.8	14.2
60°	3.6	7.1	7.1	8.9	5.3
62.5°	1.8	3.6	3.6	3.6	1.8
65°	1.8	1.8	1.8	1.8	1.8
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)