

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 EU2B15WFL558035 2LBDSQC*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 (P14813)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B15D010 EU2B15WFL558035 2LBDSQC*MB
Description: 1500 Lumen, 2inch Portfolio LED Downlight
WIDE FLOOD OPTIC
SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1138.6 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.77 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

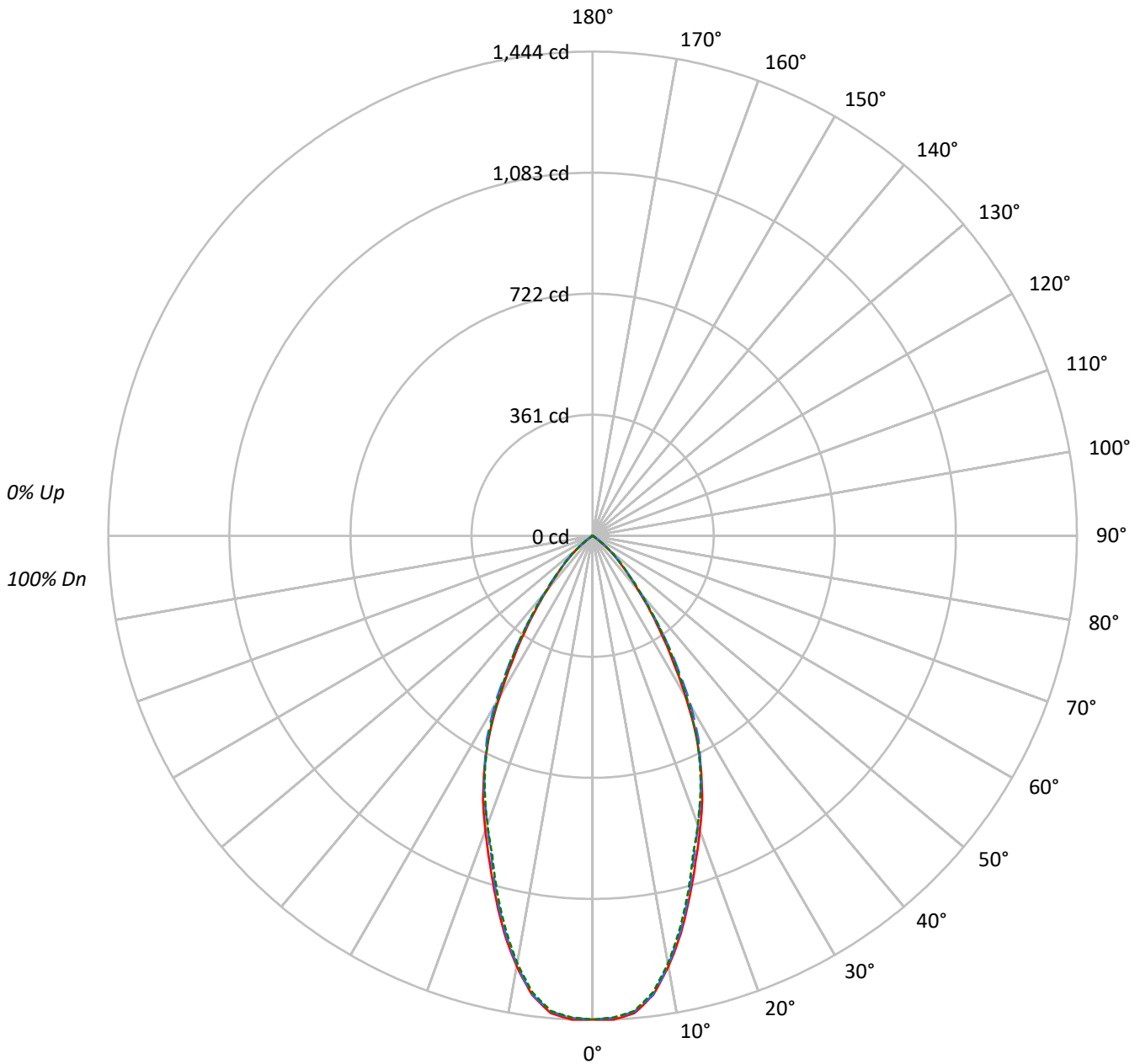
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94				94
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87				87
3	102	96	91	87	100	95	90	86	92	88	85	89	86	84	87	85	82	81				81
4	97	90	84	80	95	88	83	79	86	82	78	84	80	77	82	79	77	75				75
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70				70
6	87	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65				65
7	83	74	68	64	82	73	67	63	72	67	63	71	66	63	70	65	62	61				61
8	79	70	64	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57				57
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54				54
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	51				51

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	558785	558785	558785
5°	555787	553882	553221
10°	512930	511003	509037
15°	447607	444279	440991
20°	385329	377868	377868
25°	326226	325542	324132
30°	248502	261786	252930
35°	169190	179309	177749
40°	106691	112556	111697
45°	65954	66830	67762
50°	33806	37723	36759
55°	4457	13371	5538
60°	1240	1240	1240
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°	132.0	11.6
10°-20°	308.4	27.1
20°-30°	346.1	30.4
30°-40°	235.1	20.6
40°-50°	98.3	8.6
50°-60°	18.4	1.6
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°	786.6	69.1
0°-40°	1021.7	89.7
0°-60°	1138.3	100.0
0°-90°	1138.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1138.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1443	1443	1443	1443	1443	
5°	1429	1428	1424	1421	1423	132
15°	1116	1113	1108	1098	1100	311
25°	763	770	762	760	758	345
35°	358	369	379	371	376	227
45°	120	119	122	124	124	95
55°	7	15	20	15	8	13
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°	1442.6	1442.6	1442.6	1442.6	1442.6
2.5°	1444.2	1440.9	1439.3	1437.7	1437.7
5°	1429.4	1427.8	1424.5	1421.2	1422.8
7.5°	1381.6	1379.9	1379.9	1373.4	1373.4
10°	1304.1	1304.1	1299.2	1299.2	1294.2
12.5°	1215.1	1208.5	1208.5	1203.5	1200.2
15°	1116.2	1112.9	1107.9	1098.0	1099.7
17.5°	1020.5	1013.9	1004.0	999.1	995.8
20°	934.8	933.2	916.7	913.4	916.7
22.5°	854.0	855.7	842.5	839.2	839.2
25°	763.3	769.9	761.7	760.0	758.4
27.5°	666.1	677.6	682.6	671.0	669.4
30°	555.6	575.4	585.3	573.7	565.5
32.5°	448.4	468.2	478.1	469.9	464.9
35°	357.8	369.3	379.2	371.0	375.9
37.5°	280.3	286.9	290.2	290.2	290.2
40°	211.0	217.6	222.6	224.2	220.9
42.5°	159.9	163.2	166.5	168.2	166.5
45°	120.4	118.7	122.0	123.7	123.7
47.5°	87.4	87.4	89.0	90.7	90.7
50°	56.1	59.4	62.6	61.0	61.0
52.5°	24.7	34.6	41.2	34.6	28.0
55°	6.6	14.8	19.8	14.8	8.2
57.5°	1.6	4.9	6.6	4.9	3.3
60°	1.6	1.6	1.6	1.6	1.6
62.5°	1.6	0.0	0.0	0.0	1.6
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)