

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 EU2B15WFL559050 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 EU2B15WFL559050 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: 989.5 lumens
Efficiency: N/A
Efficacy: 69.2 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

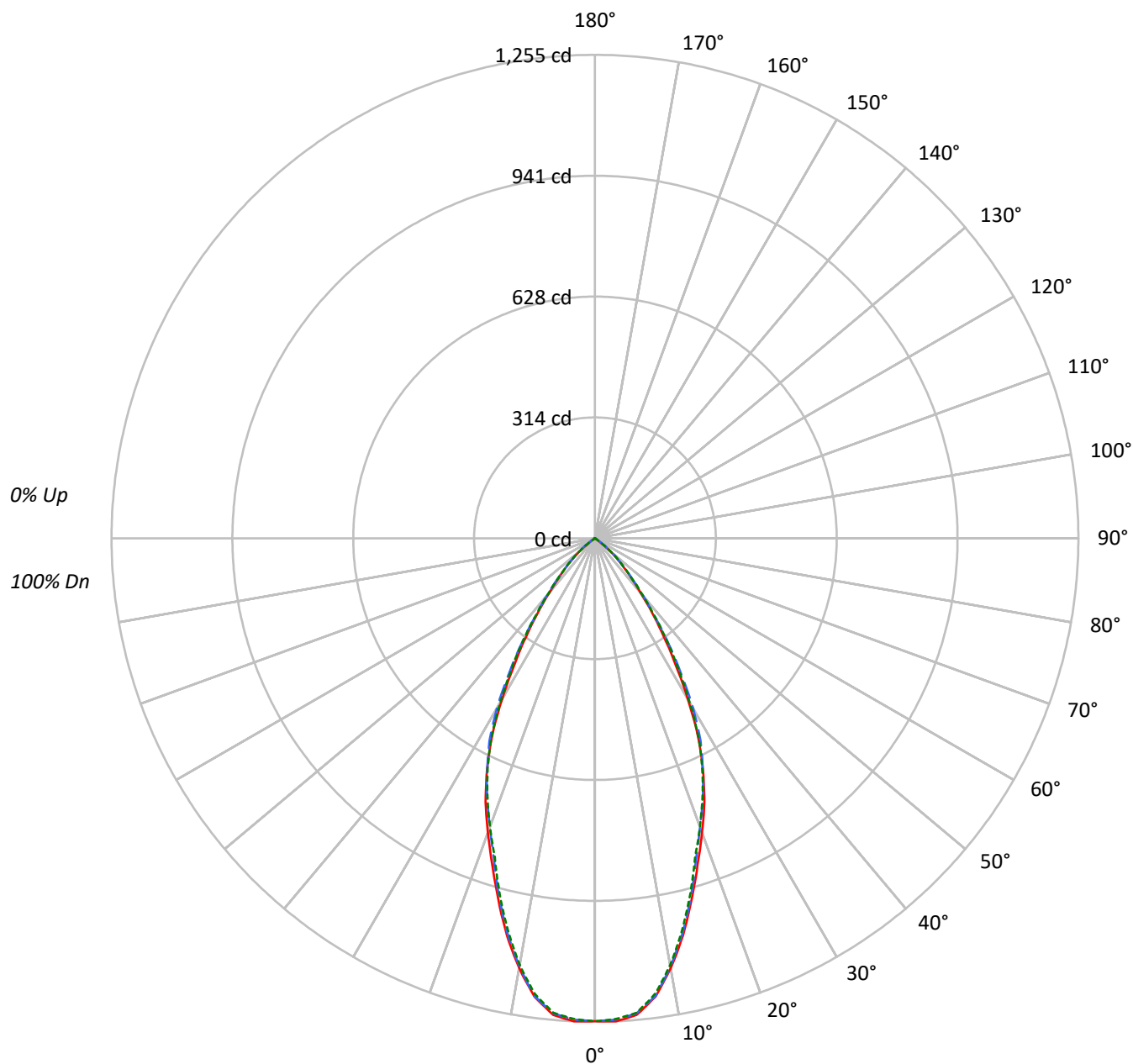
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94		
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87		
3	102	96	91	87	100	95	90	86	92	88	85	89	86	84	87	85	82	81		
4	97	90	84	80	95	88	83	79	86	82	78	84	80	77	82	79	77	75		
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70		
6	87	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65		
7	83	74	68	64	82	73	67	63	72	67	63	71	66	63	70	65	62	61		
8	79	70	64	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57		
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54		
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	51		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	485616	485616	485616
5°	482999	481327	480783
10°	445751	444060	442369
15°	388980	386093	383245
20°	334875	328362	328362
25°	283530	282889	281692
30°	215941	227481	219788
35°	147013	155808	154484
40°	92735	97792	97084
45°	57299	58066	58887
50°	29347	32782	31938
55°	3849	11615	4862
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°	114.7	11.6
10°-20°	268.1	27.1
20°-30°	300.8	30.4
30°-40°	204.3	20.6
40°-50°	85.4	8.6
50°-60°	16.0	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°	683.5	69.1
0°-40°	887.9	89.7
0°-60°	989.2	100.0
0°-90°	989.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	989.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1254	1254	1254	1254	1254	
5°	1242	1241	1238	1235	1236	115
15°	970	967	963	954	956	271
25°	663	669	662	660	659	300
35°	311	321	330	322	327	197
45°	105	103	106	108	108	83
55°	6	13	17	13	7	12
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°	1253.7	1253.7	1253.7	1253.7	1253.7
2.5°	1255.1	1252.3	1250.8	1249.4	1249.4
5°	1242.2	1240.8	1237.9	1235.1	1236.5
7.5°	1200.7	1199.2	1199.2	1193.5	1193.5
10°	1133.3	1133.3	1129.0	1129.0	1124.7
12.5°	1056.0	1050.2	1050.2	1045.9	1043.1
15°	970.0	967.1	962.8	954.2	955.7
17.5°	886.9	881.2	872.6	868.3	865.4
20°	812.4	811.0	796.6	793.8	796.6
22.5°	742.2	743.6	732.2	729.3	729.3
25°	663.4	669.1	661.9	660.5	659.1
27.5°	578.8	588.9	593.2	583.1	581.7
30°	482.8	500.0	508.6	498.6	491.4
32.5°	389.7	406.9	415.5	408.3	404.0
35°	310.9	320.9	329.5	322.4	326.7
37.5°	243.6	249.3	252.2	252.2	252.2
40°	183.4	189.1	193.4	194.9	192.0
42.5°	139.0	141.8	144.7	146.1	144.7
45°	104.6	103.2	106.0	107.5	107.5
47.5°	75.9	75.9	77.4	78.8	78.8
50°	48.7	51.6	54.4	53.0	53.0
52.5°	21.5	30.1	35.8	30.1	24.4
55°	5.7	12.9	17.2	12.9	7.2
57.5°	1.4	4.3	5.7	4.3	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)