

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 EU2B15WFL559030 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 EU2B15WFL559030 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: 908.7 lumens
Efficiency: N/A
Efficacy: 63.5 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

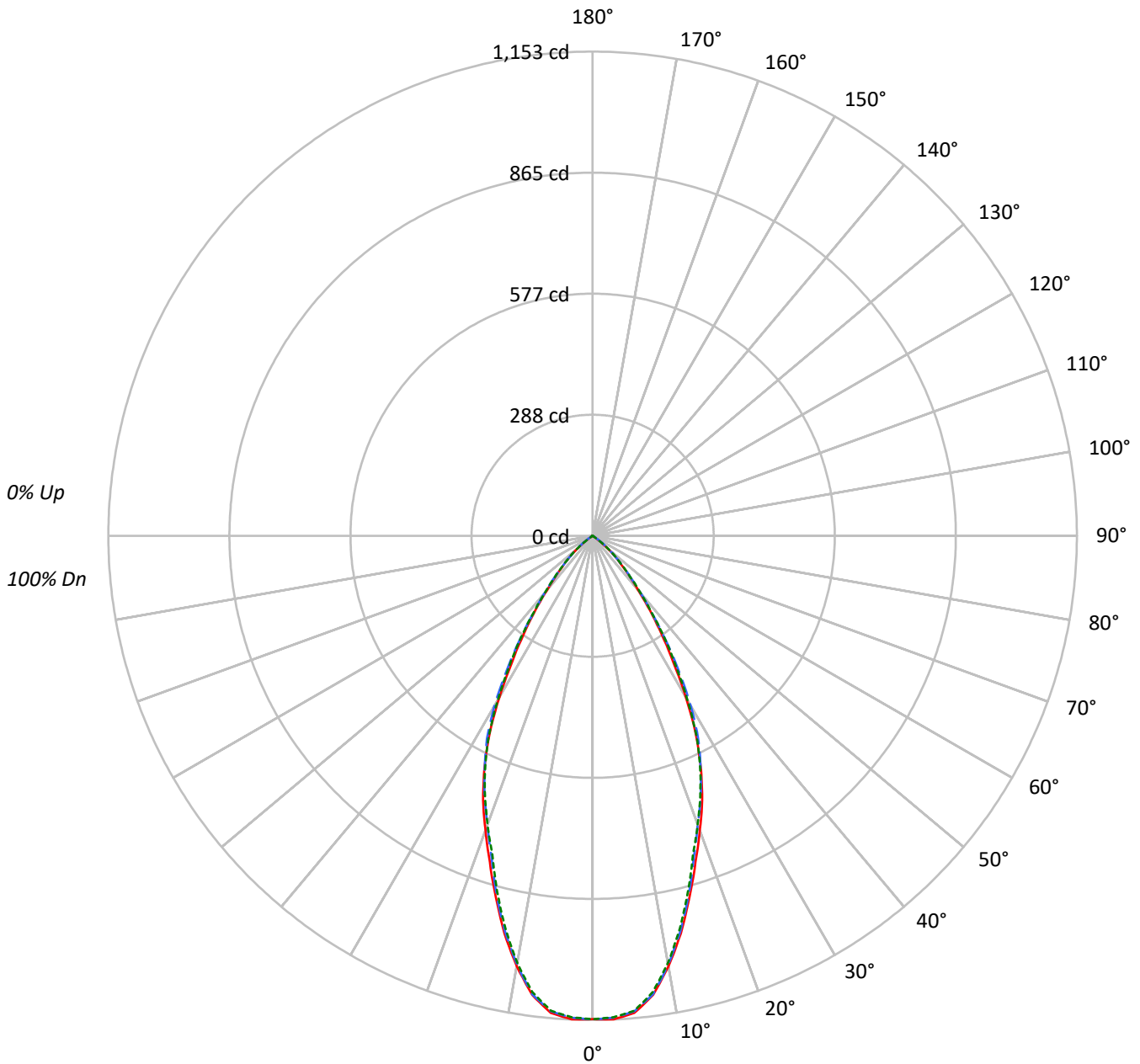
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	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°	445951	445951	445951
5°	443572	442017	441511
10°	409369	407796	406262
15°	357220	354573	351926
20°	307546	301569	301569
25°	260365	259810	258699
30°	198319	208919	201852
35°	135002	143088	141859
40°	85150	89802	89145
45°	52643	53355	54067
50°	26936	30130	29347
55°	3579	10670	4457
60°	1007	1007	1007
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°	105.3	11.6
10°-20°	246.2	27.1
20°-30°	276.3	30.4
30°-40°	187.6	20.6
40°-50°	78.4	8.6
50°-60°	14.7	1.6
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°	627.7	69.1
0°-40°	815.4	89.7
0°-60°	908.5	100.0
0°-90°	908.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	908.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1151	1151	1151	1151	1151	
5°	1141	1140	1137	1134	1136	106
15°	891	888	884	876	878	249
25°	609	614	608	607	605	276
35°	286	295	303	296	300	181
45°	96	95	97	99	99	76
55°	5	12	16	12	7	11
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°	1151.3	1151.3	1151.3	1151.3	1151.3
2.5°	1152.6	1150.0	1148.7	1147.4	1147.4
5°	1140.8	1139.5	1136.8	1134.2	1135.5
7.5°	1102.6	1101.3	1101.3	1096.1	1096.1
10°	1040.8	1040.8	1036.8	1036.8	1032.9
12.5°	969.7	964.5	964.5	960.5	957.9
15°	890.8	888.2	884.2	876.3	877.6
17.5°	814.5	809.2	801.3	797.4	794.7
20°	746.1	744.7	731.6	728.9	731.6
22.5°	681.6	682.9	672.4	669.7	669.7
25°	609.2	614.5	607.9	606.6	605.3
27.5°	531.6	540.8	544.7	535.5	534.2
30°	443.4	459.2	467.1	457.9	451.3
32.5°	357.9	373.7	381.6	375.0	371.1
35°	285.5	294.7	302.6	296.1	300.0
37.5°	223.7	228.9	231.6	231.6	231.6
40°	168.4	173.7	177.6	178.9	176.3
42.5°	127.6	130.3	132.9	134.2	132.9
45°	96.1	94.7	97.4	98.7	98.7
47.5°	69.7	69.7	71.1	72.4	72.4
50°	44.7	47.4	50.0	48.7	48.7
52.5°	19.7	27.6	32.9	27.6	22.4
55°	5.3	11.8	15.8	11.8	6.6
57.5°	1.3	3.9	5.3	3.9	2.6
60°	1.3	1.3	1.3	1.3	1.3
62.5°	1.3	0.0	0.0	0.0	1.3
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)