

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 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 EU2B15WFL559030 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

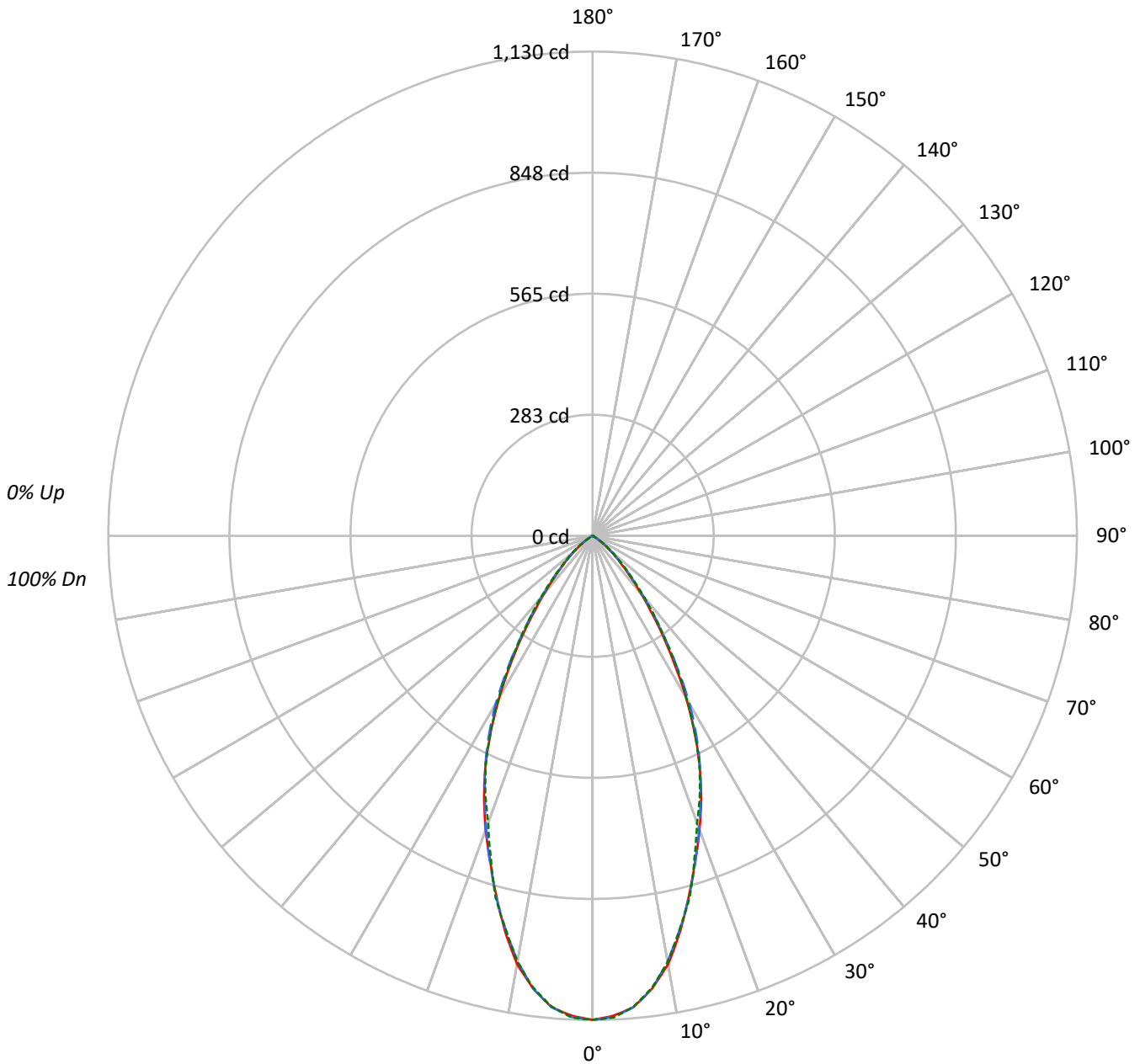
Lumens per Lamp: N/A
Luminaire Lumens: 908.7 lumens
Efficiency: N/A
Efficacy: 63.5 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.76 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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



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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	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°	437585	437585	437585
5°	429225	429225	428680
10°	399221	396429	396979
15°	348398	348959	350683
20°	300786	299632	293696
25°	252459	253655	251818
30°	194293	201987	196217
35°	135570	141007	139636
40°	88437	92078	94960
45°	54176	57354	59709
50°	31938	34529	36277
55°	13574	17423	16478
60°	2247	4416	3331
65°	1283	1283	1283
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°	102.3	11.3
10°-20°	242.1	26.6
20°-30°	268.2	29.5
30°-40°	186.7	20.5
40°-50°	84.0	9.2
50°-60°	23.7	2.6
60°-70°	1.6	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°	612.7	67.4
0°-40°	799.3	88.0
0°-60°	907.1	99.8
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°	1130	1130	1130	1130	1130	
5°	1104	1108	1104	1100	1102	102
15°	869	873	870	869	874	243
25°	591	595	594	586	589	268
35°	287	295	298	298	295	181
45°	99	102	105	108	109	80
55°	20	23	26	26	24	20
65°	1	1	1	1	1	1
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°	1129.7	1129.7	1129.7	1129.7	1129.7
2.5°	1121.1	1126.9	1124.0	1124.0	1125.4
5°	1103.9	1108.2	1103.9	1099.6	1102.5
7.5°	1065.2	1069.5	1065.2	1062.4	1063.8
10°	1015.0	1012.2	1007.9	1005.0	1009.3
12.5°	944.8	943.4	940.5	939.1	939.1
15°	868.8	873.1	870.2	868.8	874.5
17.5°	795.7	800.0	797.1	792.8	790.0
20°	729.7	731.2	726.9	719.7	712.5
22.5°	662.4	663.8	656.6	653.8	653.8
25°	590.7	595.0	593.5	586.4	589.2
27.5°	513.3	520.4	523.3	514.7	514.7
30°	434.4	440.1	451.6	440.1	438.7
32.5°	357.0	365.6	371.3	369.9	365.6
35°	286.7	295.3	298.2	298.2	295.3
37.5°	223.7	232.3	235.1	238.0	238.0
40°	174.9	179.2	182.1	186.4	187.8
42.5°	131.9	136.2	140.5	143.4	141.9
45°	98.9	101.8	104.7	107.5	109.0
47.5°	74.6	74.6	77.4	80.3	80.3
50°	53.0	55.9	57.3	58.8	60.2
52.5°	35.8	37.3	40.1	41.6	40.1
55°	20.1	22.9	25.8	25.8	24.4
57.5°	8.6	12.9	14.3	14.3	11.5
60°	2.9	5.7	5.7	7.2	4.3
62.5°	1.4	2.9	2.9	2.9	1.4
65°	1.4	1.4	1.4	1.4	1.4
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)