

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 EU2B15WFL559040 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 EU2B15WFL559040 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: 962.6 lumens  
Efficiency: N/A  
Efficacy: 67.3 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

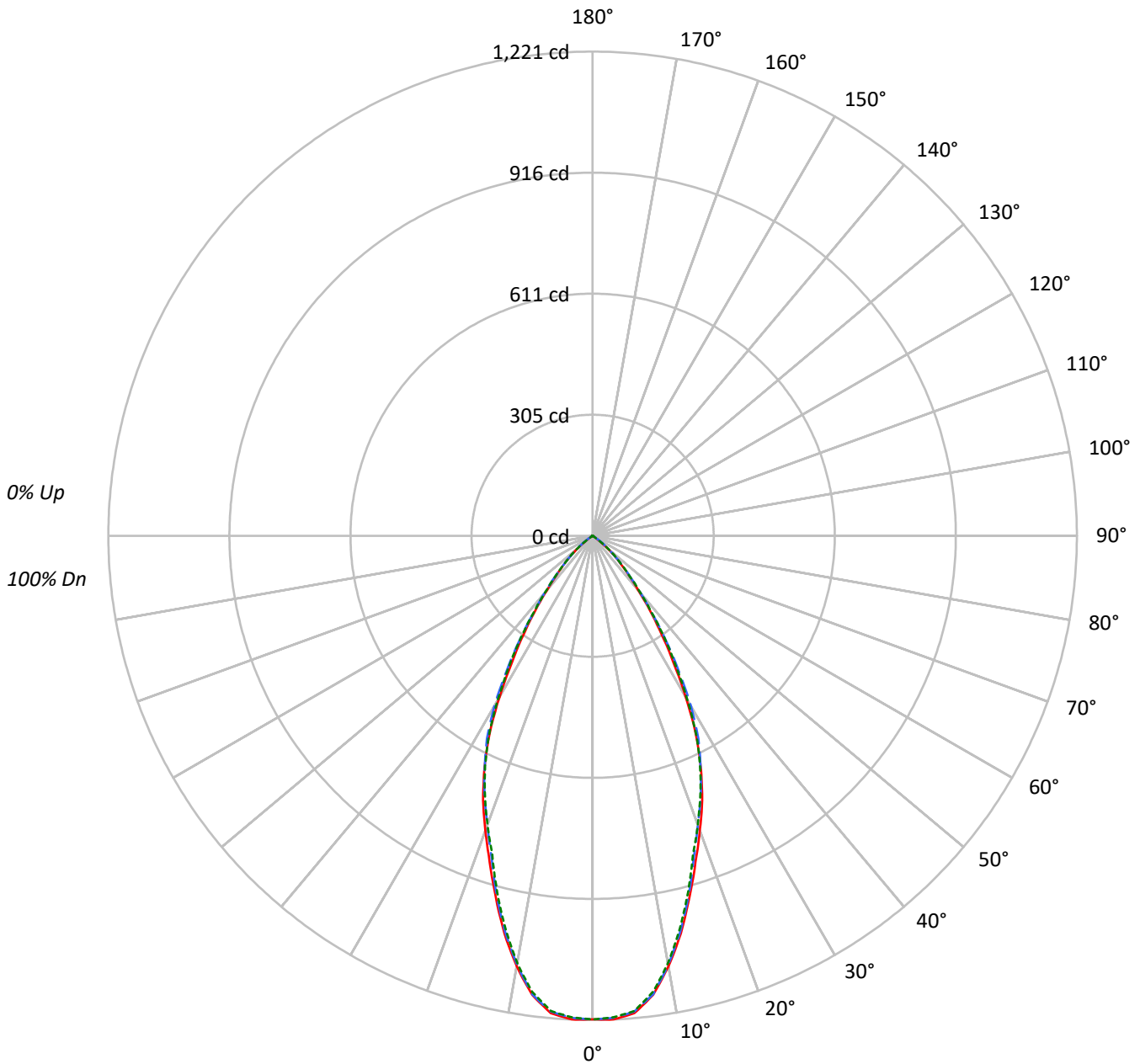
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: LD2B15D010 EU2B15WFL559040 2LBDSQC\*MB

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD2B15D010 EU2B15WFL559040 2LBDSQC\*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	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°	472407	472407	472407
5°	469896	468263	467718
10°	433637	431985	430372
15°	378393	375626	372819
20°	325766	319459	319459
25°	275794	275239	274042
30°	210082	221309	213839
35°	143041	151600	150276
40°	90207	95162	94454
45°	55765	56477	57244
50°	28563	31938	31094
55°	3782	11278	4727
60°	1085	1085	1085
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: LD2B15D010 EU2B15WFL559040 2LBDSQC\*MB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.6	11.6
10°-20°	260.8	27.1
20°-30°	292.6	30.4
30°-40°	198.8	20.6
40°-50°	83.1	8.6
50°-60°	15.5	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°	665.0	69.1
0°-40°	863.7	89.7
0°-60°	962.4	100.0
0°-90°	962.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	962.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1220	1220	1220	1220	1220	
5°	1208	1207	1204	1202	1203	112
15°	944	941	937	928	930	263
25°	645	651	644	643	641	292
35°	302	312	321	314	318	192
45°	102	100	103	104	104	81
55°	6	12	17	12	7	11
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	0



TEST NUMBER: P#

CATALOG NUMBER: LD2B15D010 EU2B15WFL559040 2LBDSQC\*MB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1219.6	1219.6	1219.6	1219.6	1219.6
2.5°	1221.0	1218.2	1216.8	1215.4	1215.4
5°	1208.5	1207.1	1204.3	1201.5	1202.9
7.5°	1168.0	1166.6	1166.6	1161.1	1161.1
10°	1102.5	1102.5	1098.3	1098.3	1094.2
12.5°	1027.3	1021.7	1021.7	1017.5	1014.7
15°	943.6	940.8	936.7	928.3	929.7
17.5°	862.8	857.2	848.8	844.7	841.9
20°	790.3	788.9	775.0	772.2	775.0
22.5°	722.0	723.4	712.3	709.5	709.5
25°	645.3	650.9	644.0	642.6	641.2
27.5°	563.1	572.9	577.0	567.3	565.9
30°	469.7	486.4	494.8	485.1	478.1
32.5°	379.1	395.8	404.2	397.2	393.1
35°	302.5	312.2	320.6	313.6	317.8
37.5°	237.0	242.5	245.3	245.3	245.3
40°	178.4	184.0	188.2	189.6	186.8
42.5°	135.2	138.0	140.8	142.2	140.8
45°	101.8	100.4	103.1	104.5	104.5
47.5°	73.9	73.9	75.3	76.7	76.7
50°	47.4	50.2	53.0	51.6	51.6
52.5°	20.9	29.3	34.8	29.3	23.7
55°	5.6	12.5	16.7	12.5	7.0
57.5°	1.4	4.2	5.6	4.2	2.8
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



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)