

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 EU2B15WFL559035 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 EU2B15WFL559035 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: 942.8 lumens  
Efficiency: N/A  
Efficacy: 65.9 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

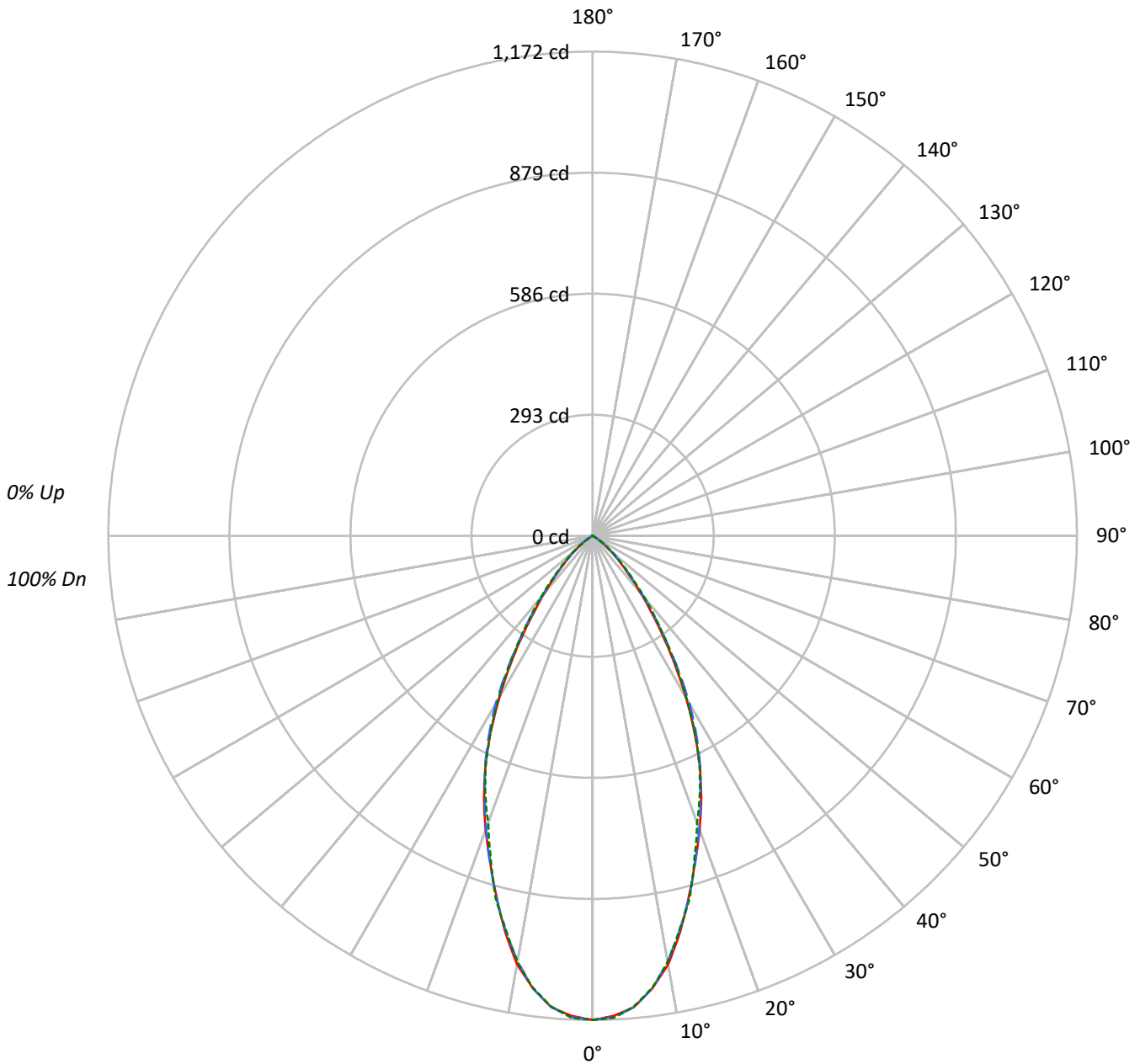
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: LD2B15D010 EU2B15WFL559035 2LBDSQLC\*MB

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD2B15D010 EU2B15WFL559035 2LBDSQLC\*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	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°	454008	454008	454008
5°	445361	445361	444778
10°	414207	411296	411886
15°	361470	362072	363877
20°	312080	310885	304743
25°	261904	263186	261306
30°	201584	209590	203597
35°	140676	146304	144885
40°	91774	95516	98550
45°	56203	59490	61900
50°	33143	35855	37663
55°	14047	18098	17086
60°	2324	4571	3486
65°	1375	1375	1375
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: LD2B15D010 EU2B15WFL559035 2LBDSQLC\*MB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.2	11.3
10°-20°	251.2	26.6
20°-30°	278.3	29.5
30°-40°	193.7	20.5
40°-50°	87.2	9.2
50°-60°	24.6	2.6
60°-70°	1.7	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°	635.7	67.4
0°-40°	829.3	88.0
0°-60°	941.1	99.8
0°-90°	942.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	942.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1172	1172	1172	1172	1172	
5°	1145	1150	1145	1141	1144	106
15°	901	906	903	901	907	252
25°	613	617	616	608	611	278
35°	298	306	309	309	306	188
45°	103	106	109	112	113	83
55°	21	24	27	27	25	21
65°	2	2	2	2	2	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 EU2B15WFL559035 2LBDSQLC\*MB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1172.1	1172.1	1172.1	1172.1	1172.1
2.5°	1163.2	1169.2	1166.2	1166.2	1167.7
5°	1145.4	1149.8	1145.4	1140.9	1143.9
7.5°	1105.2	1109.7	1105.2	1102.2	1103.7
10°	1053.1	1050.2	1045.7	1042.7	1047.2
12.5°	980.3	978.8	975.8	974.3	974.3
15°	901.4	905.9	902.9	901.4	907.4
17.5°	825.6	830.0	827.0	822.6	819.6
20°	757.1	758.6	754.2	746.7	739.3
22.5°	687.2	688.7	681.3	678.3	678.3
25°	612.8	617.3	615.8	608.4	611.4
27.5°	532.5	540.0	542.9	534.0	534.0
30°	450.7	456.7	468.6	456.7	455.2
32.5°	370.4	379.3	385.3	383.8	379.3
35°	297.5	306.4	309.4	309.4	306.4
37.5°	232.0	241.0	243.9	246.9	246.9
40°	181.5	185.9	188.9	193.4	194.9
42.5°	136.8	141.3	145.8	148.7	147.3
45°	102.6	105.6	108.6	111.6	113.0
47.5°	77.3	77.3	80.3	83.3	83.3
50°	55.0	58.0	59.5	61.0	62.5
52.5°	37.2	38.7	41.6	43.1	41.6
55°	20.8	23.8	26.8	26.8	25.3
57.5°	8.9	13.4	14.9	14.9	11.9
60°	3.0	5.9	5.9	7.4	4.5
62.5°	1.5	3.0	3.0	3.0	1.5
65°	1.5	1.5	1.5	1.5	1.5
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)