

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 EU2B15WFL558035 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 EU2B15WFL558035 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: 1138.6 lumens  
Efficiency: N/A  
Efficacy: 79.6 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

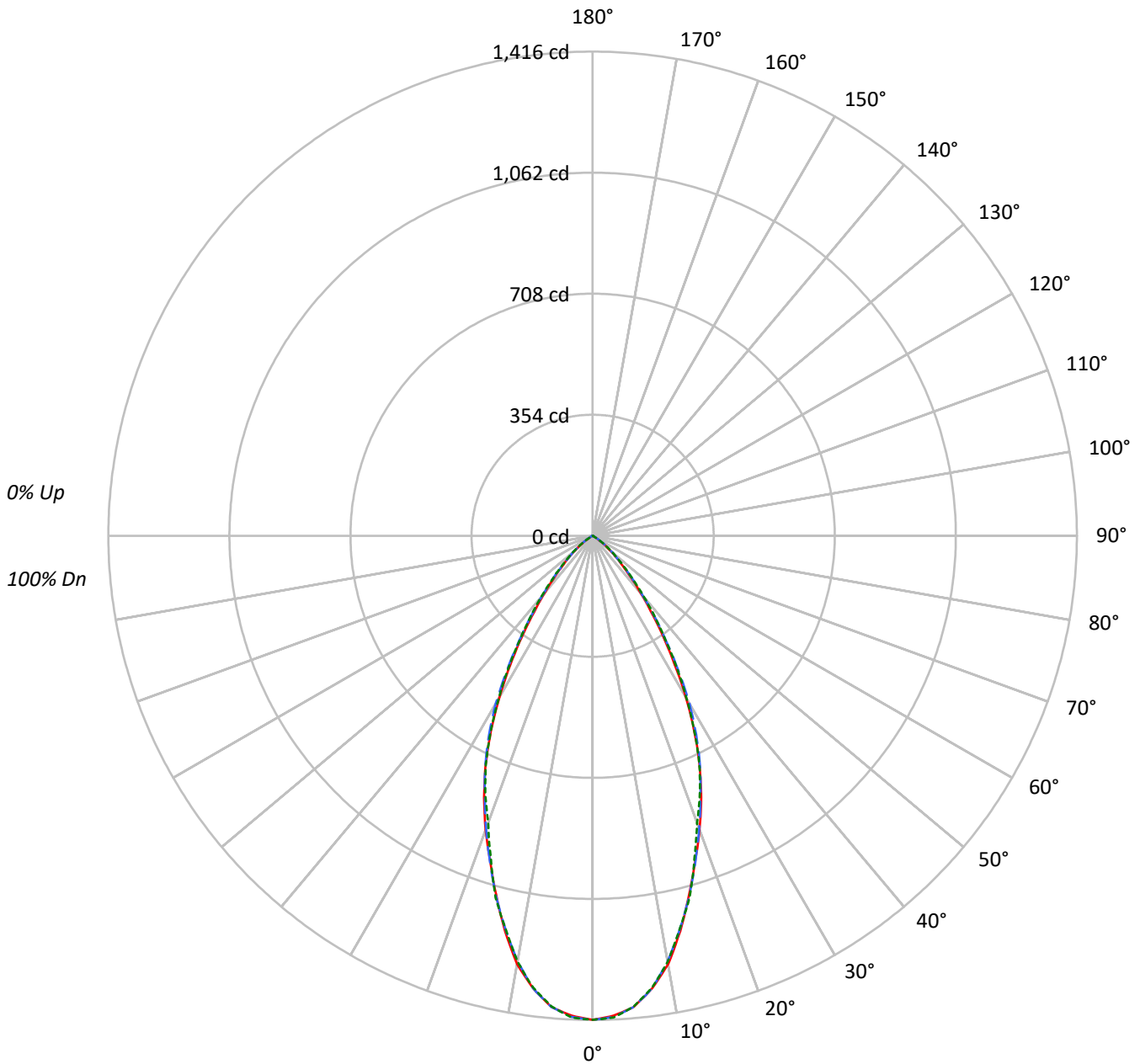
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	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					100			
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93					93			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86					86			
3	102	95	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80					80			
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	79	76	74					74			
5	92	83	77	73	90	82	77	72	80	75	72	79	74	71	77	73	70	69					69			
6	87	78	72	67	85	77	71	67	76	70	67	74	70	66	73	69	66	64					64			
7	83	73	67	63	81	72	67	62	71	66	62	70	65	62	69	65	61	60					60			
8	78	69	63	58	77	68	62	58	67	62	58	66	61	58	65	61	58	56					56			
9	75	65	59	55	74	64	59	55	63	58	54	62	58	54	62	57	54	53					53			
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	50					50			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	548327	548327	548327
5°	537824	537824	537124
10°	500266	496726	497434
15°	436540	437261	439427
20°	376920	375436	368017
25°	316311	317849	315541
30°	243448	253109	245864
35°	169899	176709	175006
40°	110837	115337	118978
45°	67926	71815	74773
50°	40073	43327	45436
55°	16950	21813	20597
60°	2789	5578	4183
65°	1650	1650	1650
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°	128.2	11.3
10°-20°	303.4	26.6
20°-30°	336.1	29.5
30°-40°	233.9	20.5
40°-50°	105.3	9.2
50°-60°	29.7	2.6
60°-70°	2.1	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°	767.7	67.4
0°-40°	1001.6	88.0
0°-60°	1136.6	99.8
0°-90°	1138.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1138.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1416	1416	1416	1416	1416	
5°	1383	1389	1383	1378	1381	128
15°	1089	1094	1090	1089	1096	304
25°	740	746	744	735	738	335
35°	359	370	374	374	370	227
45°	124	128	131	135	136	100
55°	25	29	32	32	30	25
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



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1415.6	1415.6	1415.6	1415.6	1415.6
2.5°	1404.8	1412.0	1408.4	1408.4	1410.2
5°	1383.2	1388.6	1383.2	1377.8	1381.4
7.5°	1334.7	1340.1	1334.7	1331.1	1332.9
10°	1271.9	1268.3	1262.9	1259.3	1264.7
12.5°	1183.8	1182.0	1178.4	1176.6	1176.6
15°	1088.6	1094.0	1090.4	1088.6	1095.8
17.5°	997.0	1002.4	998.8	993.4	989.8
20°	914.4	916.2	910.8	901.8	892.8
22.5°	829.9	831.7	822.8	819.2	819.2
25°	740.1	745.5	743.7	734.7	738.3
27.5°	643.1	652.1	655.7	644.9	644.9
30°	544.3	551.5	565.9	551.5	549.7
32.5°	447.3	458.1	465.3	463.5	458.1
35°	359.3	370.1	373.7	373.7	370.1
37.5°	280.2	291.0	294.6	298.2	298.2
40°	219.2	224.6	228.1	233.5	235.3
42.5°	165.3	170.7	176.0	179.6	177.8
45°	124.0	127.5	131.1	134.7	136.5
47.5°	93.4	93.4	97.0	100.6	100.6
50°	66.5	70.1	71.9	73.7	75.4
52.5°	44.9	46.7	50.3	52.1	50.3
55°	25.1	28.7	32.3	32.3	30.5
57.5°	10.8	16.2	18.0	18.0	14.4
60°	3.6	7.2	7.2	9.0	5.4
62.5°	1.8	3.6	3.6	3.6	1.8
65°	1.8	1.8	1.8	1.8	1.8
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)