

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 EU2B15WFL558040 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 EU2B15WFL558040 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: 1185.3 lumens  
Efficiency: N/A  
Efficacy: 82.9 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

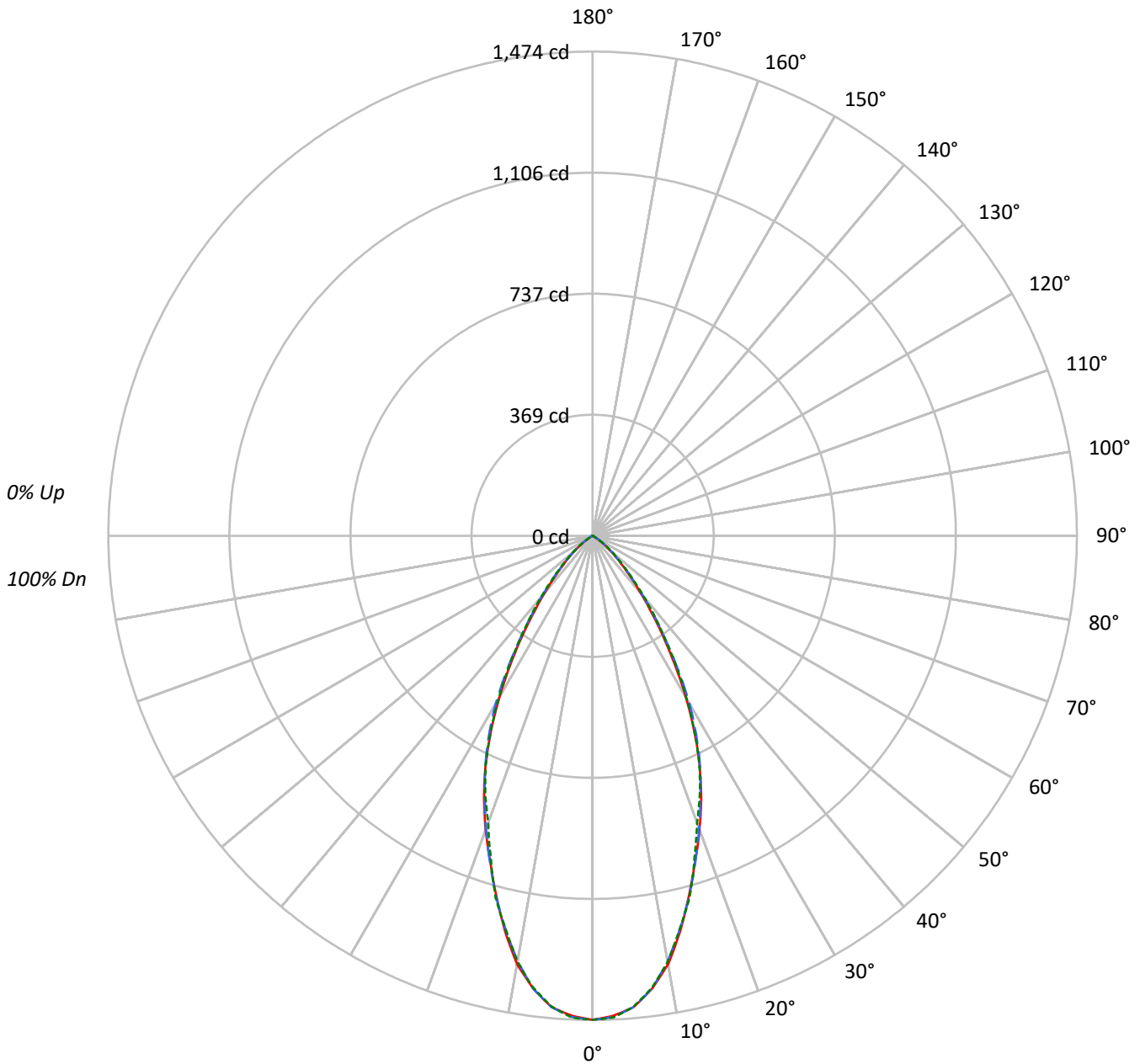
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	570793	570793	570793
5°	559909	559909	559170
10°	520758	517100	517808
15°	454465	455187	457472
20°	392378	390812	383103
25°	329303	330885	328491
30°	253422	263486	255927
35°	176850	183943	182146
40°	115388	120091	123883
45°	70665	74773	77841
50°	41700	45075	47304
55°	17693	22758	21475
60°	2866	5810	4338
65°	1741	1741	1741
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°	133.5	11.3
10°-20°	315.8	26.6
20°-30°	349.9	29.5
30°-40°	243.5	20.5
40°-50°	109.6	9.2
50°-60°	30.9	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°	799.2	67.4
0°-40°	1042.6	88.0
0°-60°	1183.2	99.8
0°-90°	1185.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1185.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1474	1474	1474	1474	1474	
5°	1440	1446	1440	1434	1438	134
15°	1133	1139	1135	1133	1141	316
25°	770	776	774	765	769	349
35°	374	385	389	389	385	236
45°	129	133	136	140	142	104
55°	26	30	34	34	32	26
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°	1473.6	1473.6	1473.6	1473.6	1473.6
2.5°	1462.4	1469.9	1466.1	1466.1	1468.0
5°	1440.0	1445.6	1440.0	1434.4	1438.1
7.5°	1389.5	1395.1	1389.5	1385.7	1387.6
10°	1324.0	1320.3	1314.7	1310.9	1316.5
12.5°	1232.4	1230.5	1226.8	1224.9	1224.9
15°	1133.3	1138.9	1135.1	1133.3	1140.8
17.5°	1037.9	1043.5	1039.8	1034.2	1030.4
20°	951.9	953.7	948.1	938.8	929.4
22.5°	864.0	865.8	856.5	852.8	852.8
25°	770.5	776.1	774.2	764.9	768.6
27.5°	669.5	678.8	682.6	671.4	671.4
30°	566.6	574.1	589.1	574.1	572.2
32.5°	465.7	476.9	484.4	482.5	476.9
35°	374.0	385.2	389.0	389.0	385.2
37.5°	291.7	303.0	306.7	310.4	310.4
40°	228.2	233.8	237.5	243.1	245.0
42.5°	172.0	177.7	183.3	187.0	185.1
45°	129.0	132.8	136.5	140.3	142.1
47.5°	97.2	97.2	101.0	104.7	104.7
50°	69.2	72.9	74.8	76.7	78.5
52.5°	46.8	48.6	52.4	54.2	52.4
55°	26.2	29.9	33.7	33.7	31.8
57.5°	11.2	16.8	18.7	18.7	15.0
60°	3.7	7.5	7.5	9.4	5.6
62.5°	1.9	3.7	3.7	3.7	1.9
65°	1.9	1.9	1.9	1.9	1.9
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)