

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: P225256

Luminaire Tested: **LD2B15D010 EU2B15FL408030 2LBDSQLC\*MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P225256  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14838)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B15D010 EU2B15FL408030 2LBDSQLC\*MB  
Description: 1500 Lumen, 2inch Portfolio LED Downlight  
FLOOD OPTIC  
LENSED SQUARE CAST TRIM WITH MATTE BLACK FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1203.2 lumens  
Efficiency: N/A  
Efficacy: 84.1 lumens/watt  
Spacing Criteria (0/90/45): 0.6 / 0.61 / 0.59  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

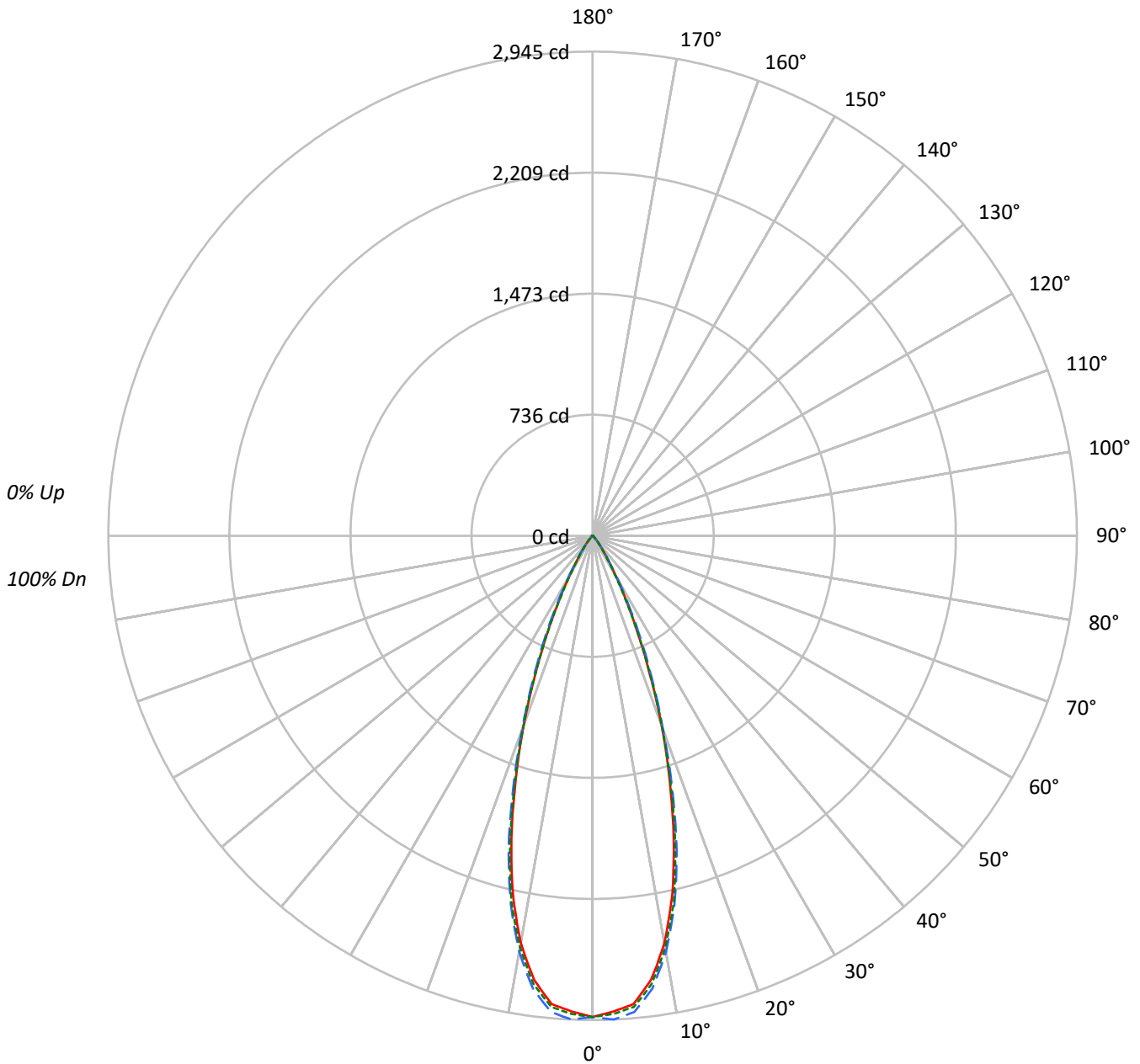
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
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	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96																			
2	110	106	103	100	108	105	102	99	101	99	97	98	97	95	96	94	93	91																			
3	106	101	97	94	104	99	96	93	97	94	91	95	92	90	92	90	89	87																			
4	102	96	92	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83																			
5	98	92	87	84	97	91	86	83	89	85	82	88	84	82	86	83	81	80																			
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	77																			
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73																			
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71																			
9	85	78	73	70	84	77	73	70	76	72	69	76	72	69	75	71	69	68																			
10	82	75	70	67	82	74	70	67	74	70	67	73	69	67	72	69	66	65																			

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

	0°	45°	90°
0°	1133878	1133878	1133878
5°	1111458	1130549	1118457
10°	989085	1010325	1000020
15°	764205	791754	777960
20°	504127	514926	506806
25°	274982	293873	276392
30°	123759	136954	118616
35°	53433	54947	48752
40°	22349	23159	20681
45°	8984	9860	9860
50°	3917	4941	4941
55°	2229	2229	3309
60°	1240	1240	1240
65°	0	0	0
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°	264.6	22.0
10°-20°	526.7	43.8
20°-30°	311.1	25.9
30°-40°	81.0	6.7
40°-50°	16.0	1.3
50°-60°	3.5	0.3
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°	1102.4	91.6
0°-40°	1183.4	98.4
0°-60°	1202.9	100.0
0°-90°	1203.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1203.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2927	2927	2927	2927	2927	
5°	2858	2881	2908	2888	2876	262
15°	1906	1948	1974	1945	1940	517
25°	643	665	688	661	647	303
35°	113	118	116	115	103	79
45°	16	20	18	18	18	15
55°	3	3	3	3	5	3
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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2927.3	2927.3	2927.3	2927.3	2927.3
2.5°	2896.2	2925.6	2945.3	2928.9	2910.9
5°	2858.5	2881.4	2907.6	2888.0	2876.5
7.5°	2724.3	2758.6	2778.3	2768.5	2750.4
10°	2514.7	2540.9	2568.7	2558.9	2542.5
12.5°	2238.0	2274.0	2300.2	2277.3	2280.6
15°	1905.7	1948.2	1974.4	1945.0	1940.0
17.5°	1553.7	1586.4	1604.4	1586.4	1573.3
20°	1223.0	1242.6	1249.2	1241.0	1229.5
22.5°	903.7	925.0	944.6	925.0	910.3
25°	643.4	664.7	687.6	661.4	646.7
27.5°	433.9	446.9	466.6	442.0	420.8
30°	276.7	291.4	306.2	288.1	265.2
32.5°	175.2	185.0	186.6	183.4	163.7
35°	113.0	117.9	116.2	114.6	103.1
37.5°	72.0	72.0	73.7	72.0	65.5
40°	44.2	47.5	45.8	44.2	40.9
42.5°	26.2	29.5	27.8	27.8	26.2
45°	16.4	19.6	18.0	18.0	18.0
47.5°	11.5	13.1	11.5	11.5	13.1
50°	6.5	8.2	8.2	8.2	8.2
52.5°	4.9	4.9	4.9	4.9	6.5
55°	3.3	3.3	3.3	3.3	4.9
57.5°	3.3	3.3	1.6	1.6	3.3
60°	1.6	1.6	1.6	1.6	1.6
62.5°	1.6	0.0	0.0	0.0	1.6
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



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







(END OF REPORT)