

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: P225226

Luminaire Tested: **LD2B10D010 EU2B10FL409727 2LBDSQLC\*MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P225226  
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: LD2B10D010 EU2B10FL409727 2LBDSQLC\*MB  
Description: 1000 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: 621.7 lumens  
Efficiency: N/A  
Efficacy: 60.4 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

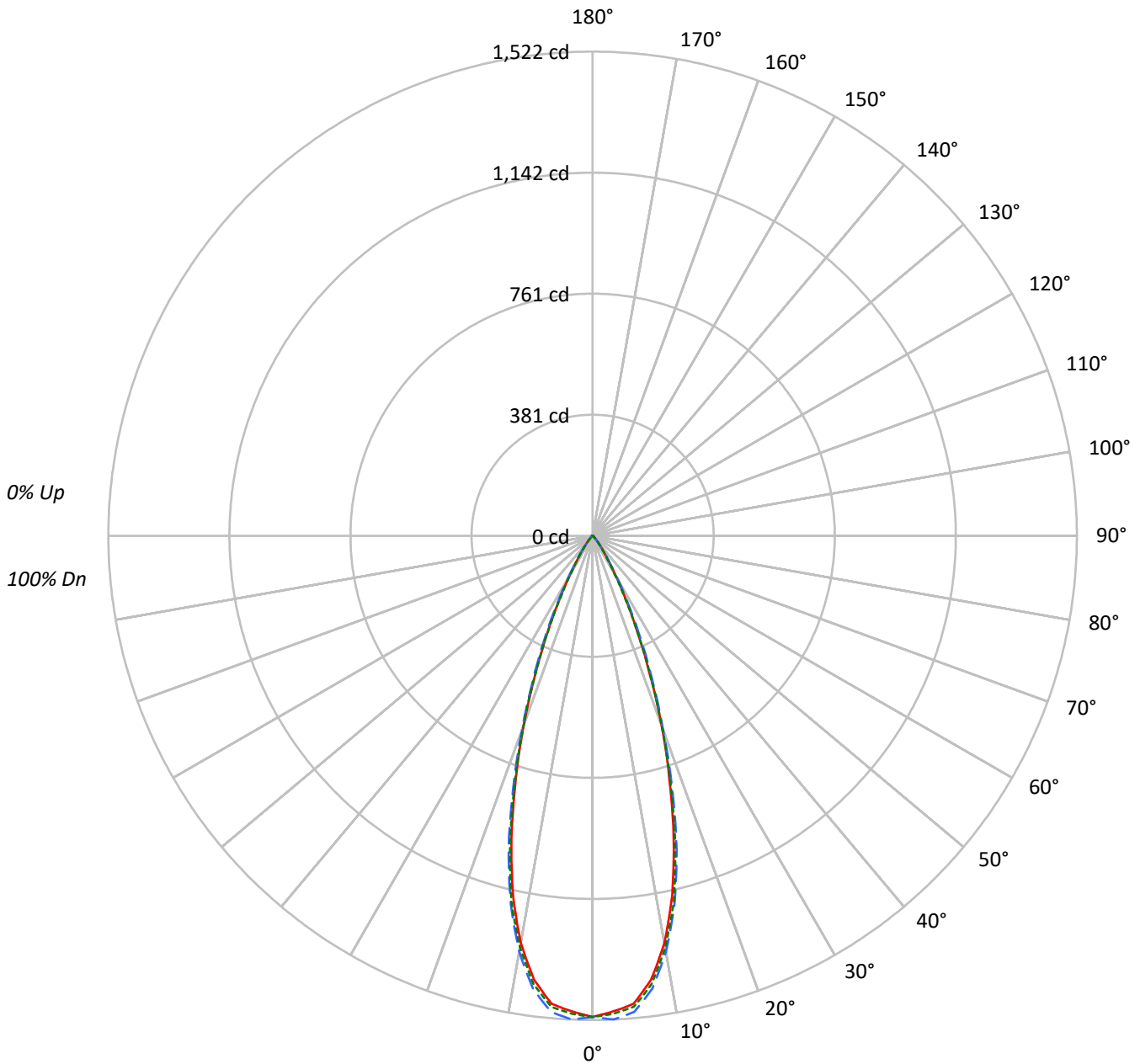
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	585861	585861	585861
5°	574295	584172	577911
10°	511082	522056	516706
15°	394875	409110	401972
20°	260472	266037	261874
25°	142107	151851	142791
30°	63959	70758	61276
35°	27615	28419	25204
40°	11529	11984	10669
45°	4656	5094	5094
50°	2049	2531	2531
55°	1148	1148	1688
60°	620	620	620
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°	136.7	22.0
10°-20°	272.1	43.8
20°-30°	160.8	25.9
30°-40°	41.8	6.7
40°-50°	8.3	1.3
50°-60°	1.8	0.3
60°-70°	0.1	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°	569.6	91.6
0°-40°	611.5	98.4
0°-60°	621.5	100.0
0°-90°	621.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	621.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1512	1512	1512	1512	1512	
5°	1477	1489	1502	1492	1486	135
15°	985	1007	1020	1005	1002	267
25°	332	343	355	342	334	157
35°	58	61	60	59	53	41
45°	8	10	9	9	9	8
55°	2	2	2	2	2	2
65°	0	0	0	0	0	0
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°	1512.5	1512.5	1512.5	1512.5	1512.5
2.5°	1496.5	1511.7	1521.8	1513.4	1504.1
5°	1477.0	1488.8	1502.4	1492.2	1486.3
7.5°	1407.6	1425.4	1435.6	1430.5	1421.2
10°	1299.4	1312.9	1327.3	1322.2	1313.7
12.5°	1156.4	1175.0	1188.5	1176.7	1178.4
15°	984.7	1006.7	1020.2	1005.0	1002.4
17.5°	802.8	819.7	829.0	819.7	812.9
20°	631.9	642.1	645.4	641.2	635.3
22.5°	467.0	478.0	488.1	478.0	470.3
25°	332.5	343.4	355.3	341.8	334.1
27.5°	224.2	230.9	241.1	228.4	217.4
30°	143.0	150.6	158.2	148.9	137.0
32.5°	90.5	95.6	96.4	94.7	84.6
35°	58.4	60.9	60.1	59.2	53.3
37.5°	37.2	37.2	38.1	37.2	33.8
40°	22.8	24.5	23.7	22.8	21.1
42.5°	13.5	15.2	14.4	14.4	13.5
45°	8.5	10.2	9.3	9.3	9.3
47.5°	5.9	6.8	5.9	5.9	6.8
50°	3.4	4.2	4.2	4.2	4.2
52.5°	2.5	2.5	2.5	2.5	3.4
55°	1.7	1.7	1.7	1.7	2.5
57.5°	1.7	1.7	0.8	0.8	1.7
60°	0.8	0.8	0.8	0.8	0.8
62.5°	0.8	0.0	0.0	0.0	0.8
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)