

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: P225184

Luminaire Tested: **LD2B10D010 EU2B10FL409730 2LBDSQC\*MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P225184  
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 EU2B10FL409730 2LBDSQC\*MB  
Description: 1000 Lumen, 2inch Portfolio LED Downlight  
FLOOD OPTIC  
SQUARE CAST TRIM WITH MATTE BLACK FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 717.8 lumens  
Efficiency: N/A  
Efficacy: 69.7 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

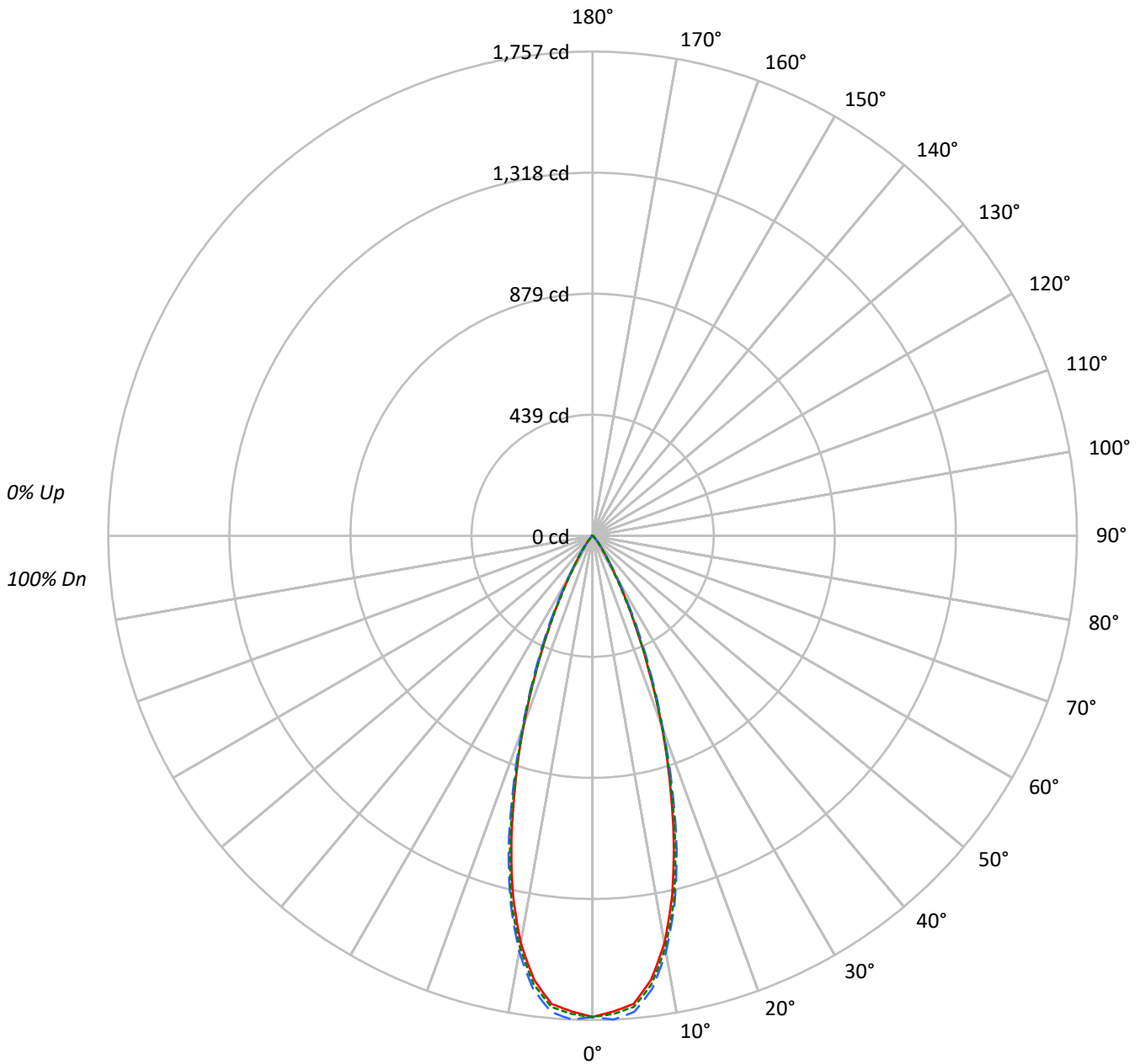
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	75	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°	676422	676422	676422
5°	663064	674457	667264
10°	590061	602726	596590
15°	455908	472350	464129
20°	300745	307175	302352
25°	164032	175315	164887
30°	73844	81671	70758
35°	31871	32769	29081
40°	13349	13804	12338
45°	5368	5861	5861
50°	2350	2953	2953
55°	1351	1351	1958
60°	775	775	775
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°	157.8	22.0
10°-20°	314.2	43.8
20°-30°	185.6	25.9
30°-40°	48.3	6.7
40°-50°	9.5	1.3
50°-60°	2.1	0.3
60°-70°	0.2	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°	657.7	91.6
0°-40°	706.0	98.4
0°-60°	717.6	100.0
0°-90°	717.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	717.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1746	1746	1746	1746	1746	
5°	1705	1719	1735	1723	1716	156
15°	1137	1162	1178	1160	1157	308
25°	384	396	410	395	386	181
35°	67	70	69	68	62	47
45°	10	12	11	11	11	9
55°	2	2	2	2	3	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°	1746.3	1746.3	1746.3	1746.3	1746.3
2.5°	1727.8	1745.4	1757.1	1747.3	1736.6
5°	1705.3	1719.0	1734.6	1722.9	1716.1
7.5°	1625.2	1645.7	1657.5	1651.6	1640.9
10°	1500.2	1515.8	1532.4	1526.6	1516.8
12.5°	1335.1	1356.6	1372.3	1358.6	1360.5
15°	1136.9	1162.3	1177.9	1160.3	1157.4
17.5°	926.9	946.4	957.2	946.4	938.6
20°	729.6	741.3	745.2	740.3	733.5
22.5°	539.1	551.8	563.6	551.8	543.0
25°	383.8	396.5	410.2	394.6	385.8
27.5°	258.8	266.6	278.4	263.7	251.0
30°	165.1	173.9	182.6	171.9	158.2
32.5°	104.5	110.4	111.3	109.4	97.7
35°	67.4	70.3	69.3	68.4	61.5
37.5°	43.0	43.0	44.0	43.0	39.1
40°	26.4	28.3	27.3	26.4	24.4
42.5°	15.6	17.6	16.6	16.6	15.6
45°	9.8	11.7	10.7	10.7	10.7
47.5°	6.8	7.8	6.8	6.8	7.8
50°	3.9	4.9	4.9	4.9	4.9
52.5°	2.9	2.9	2.9	2.9	3.9
55°	2.0	2.0	2.0	2.0	2.9
57.5°	2.0	2.0	1.0	1.0	2.0
60°	1.0	1.0	1.0	1.0	1.0
62.5°	1.0	0.0	0.0	0.0	1.0
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)