

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: P225222

Luminaire Tested: **LD2B10D010 EU2B10FL409030 2LBDSQLC\*MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P225222  
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 EU2B10FL409030 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: 720.5 lumens  
Efficiency: N/A  
Efficacy: 70.0 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

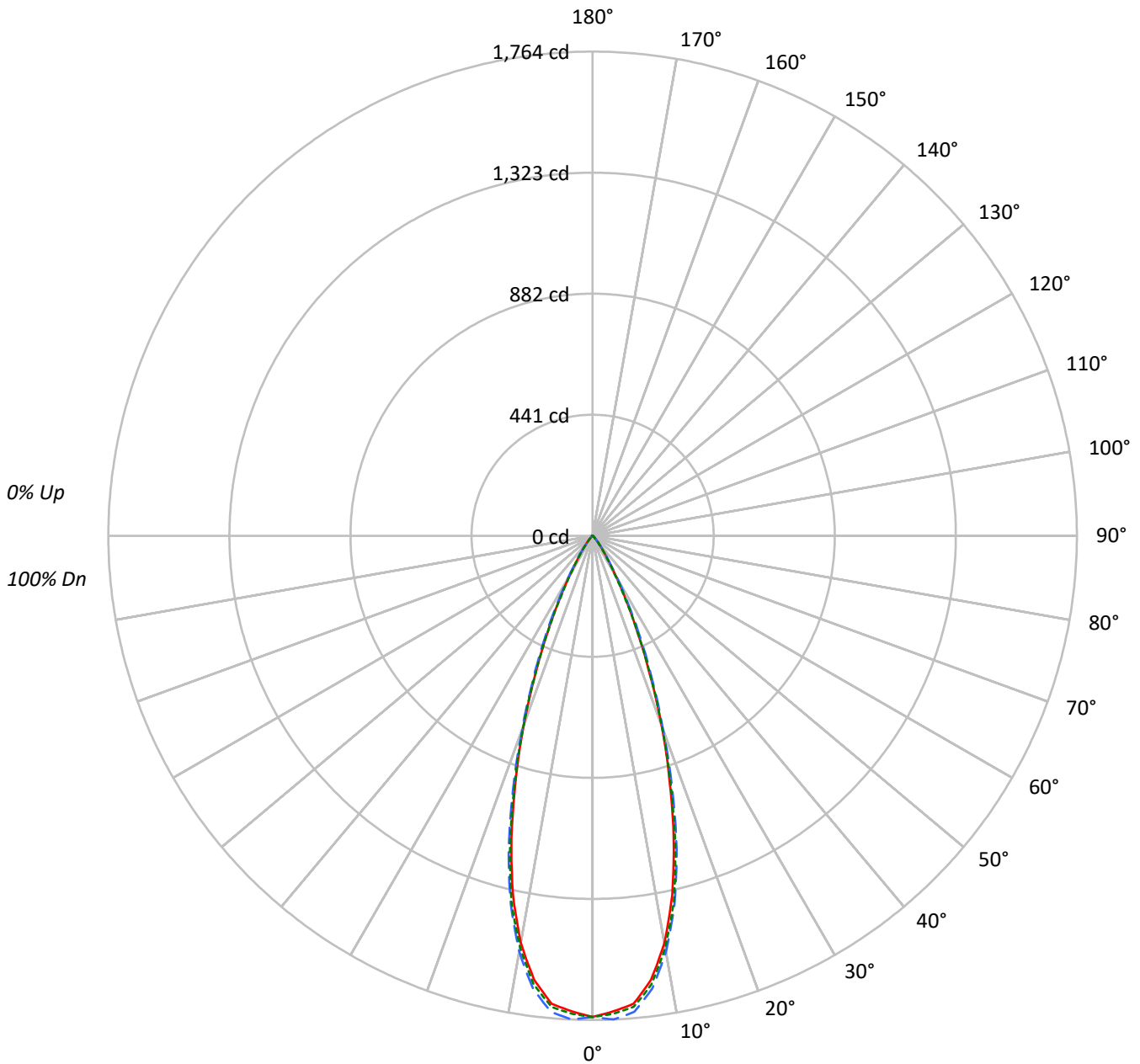
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	678979	678979	678979
5°	665553	676984	669752
10°	592263	605007	598832
15°	457633	474114	465853
20°	301858	308329	303507
25°	164673	175999	165485
30°	74112	81984	71026
35°	31965	32911	29223
40°	13400	13905	12388
45°	5368	5916	5916
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°	158.4	22.0
10°-20°	315.4	43.8
20°-30°	186.3	25.9
30°-40°	48.5	6.7
40°-50°	9.6	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°	660.1	91.6
0°-40°	708.6	98.4
0°-60°	720.3	100.0
0°-90°	720.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	720.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1753	1753	1753	1753	1753	
5°	1712	1726	1741	1729	1722	157
15°	1141	1167	1182	1165	1162	310
25°	385	398	412	396	387	182
35°	68	71	70	69	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°	1752.9	1752.9	1752.9	1752.9	1752.9
2.5°	1734.3	1751.9	1763.7	1753.9	1743.1
5°	1711.7	1725.5	1741.1	1729.4	1722.5
7.5°	1631.3	1651.9	1663.7	1657.8	1647.0
10°	1505.8	1521.5	1538.2	1532.3	1522.5
12.5°	1340.2	1361.7	1377.4	1363.7	1365.7
15°	1141.2	1166.6	1182.3	1164.7	1161.7
17.5°	930.4	950.0	960.8	950.0	942.1
20°	732.3	744.1	748.0	743.1	736.3
22.5°	541.2	553.9	565.7	553.9	545.1
25°	385.3	398.0	411.8	396.1	387.2
27.5°	259.8	267.6	279.4	264.7	252.0
30°	165.7	174.5	183.3	172.5	158.8
32.5°	104.9	110.8	111.8	109.8	98.0
35°	67.6	70.6	69.6	68.6	61.8
37.5°	43.1	43.1	44.1	43.1	39.2
40°	26.5	28.4	27.5	26.5	24.5
42.5°	15.7	17.6	16.7	16.7	15.7
45°	9.8	11.8	10.8	10.8	10.8
47.5°	6.9	7.8	6.9	6.9	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)