

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: P225179

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P225179  
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 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: 781.8 lumens  
Efficiency: N/A  
Efficacy: 75.9 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

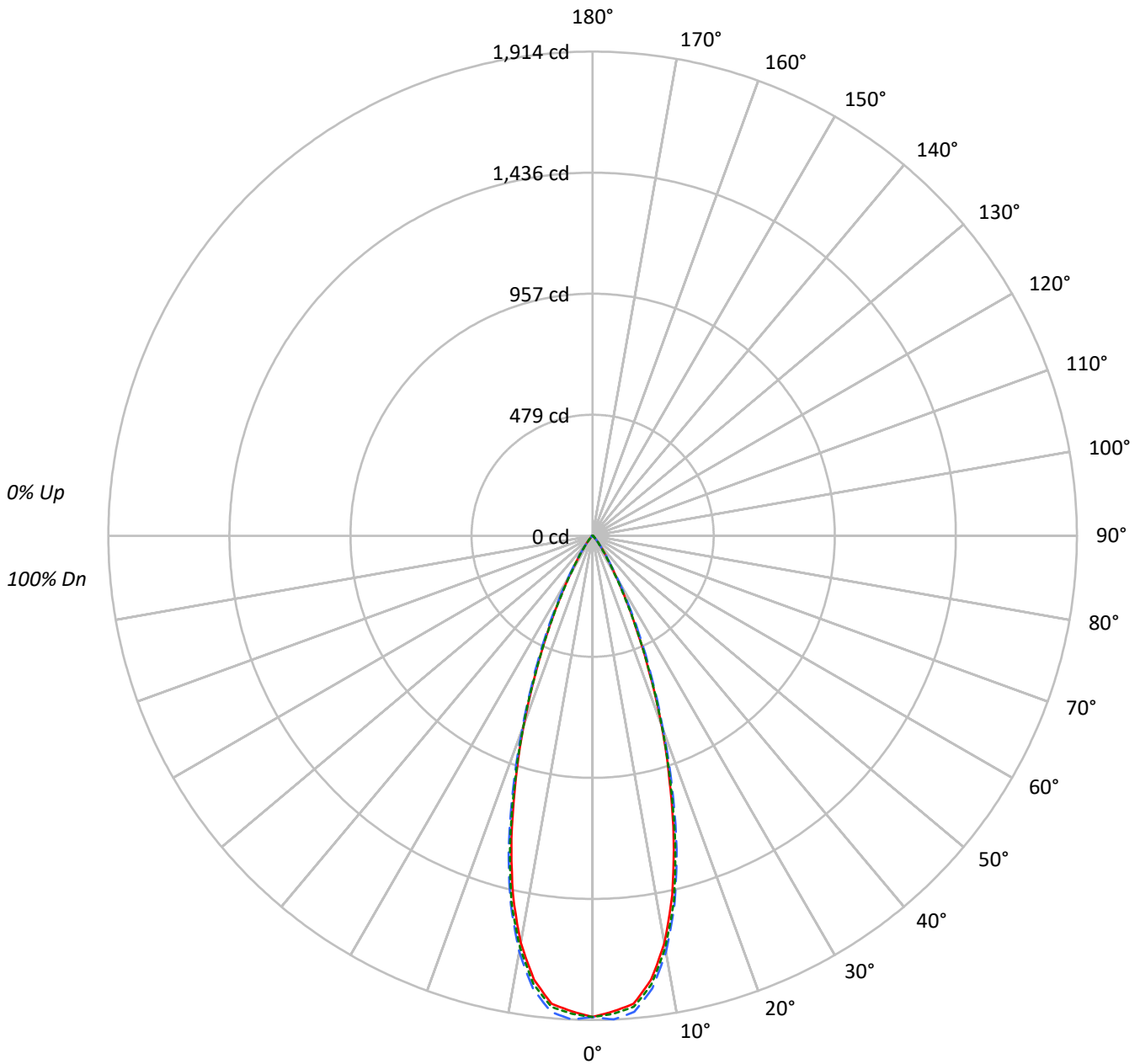
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P225179

CATALOG NUMBER: LD2B10D010 EU2B10FL409030 2LBDSQC\*MB

### Luminous Intensity Polar Plot





TEST NUMBER: P225179

CATALOG NUMBER: LD2B10D010 EU2B10FL409030 2LBDSQC\*MB

**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°	736732	736732	736732
5°	722205	734608	726754
10°	642687	656493	649806
15°	496531	514456	505513
20°	327538	334587	329311
25°	178691	190957	179589
30°	80419	88962	77064
35°	34708	35701	31682
40°	14512	15068	13450
45°	5807	6409	6409
50°	2591	3194	3194
55°	1418	1418	2161
60°	852	852	852
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P225179

CATALOG NUMBER: LD2B10D010 EU2B10FL409030 2LBDSQC\*MB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.9	22.0
10°-20°	342.2	43.8
20°-30°	202.1	25.9
30°-40°	52.6	6.7
40°-50°	10.4	1.3
50°-60°	2.3	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°	716.3	91.6
0°-40°	768.9	98.4
0°-60°	781.6	100.0
0°-90°	781.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	781.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1902	1902	1902	1902	1902	
5°	1857	1872	1889	1876	1869	170
15°	1238	1266	1283	1264	1261	336
25°	418	432	447	430	420	197
35°	73	77	76	74	67	51
45°	11	13	12	12	12	10
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	



TEST NUMBER: P225179

CATALOG NUMBER: LD2B10D010 EU2B10FL409030 2LBDSQC\*MB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1902.0	1902.0	1902.0	1902.0	1902.0
2.5°	1881.8	1901.0	1913.7	1903.1	1891.4
5°	1857.4	1872.3	1889.3	1876.5	1869.1
7.5°	1770.1	1792.5	1805.2	1798.9	1787.2
10°	1634.0	1651.0	1669.1	1662.7	1652.1
12.5°	1454.2	1477.6	1494.6	1479.7	1481.8
15°	1238.2	1265.9	1282.9	1263.8	1260.6
17.5°	1009.5	1030.8	1042.5	1030.8	1022.3
20°	794.6	807.4	811.7	806.3	798.9
22.5°	587.2	601.0	613.8	601.0	591.5
25°	418.1	431.9	446.8	429.8	420.2
27.5°	281.9	290.4	303.2	287.2	273.4
30°	179.8	189.4	198.9	187.2	172.3
32.5°	113.8	120.2	121.3	119.1	106.4
35°	73.4	76.6	75.5	74.5	67.0
37.5°	46.8	46.8	47.9	46.8	42.6
40°	28.7	30.8	29.8	28.7	26.6
42.5°	17.0	19.1	18.1	18.1	17.0
45°	10.6	12.8	11.7	11.7	11.7
47.5°	7.4	8.5	7.4	7.4	8.5
50°	4.3	5.3	5.3	5.3	5.3
52.5°	3.2	3.2	3.2	3.2	4.3
55°	2.1	2.1	2.1	2.1	3.2
57.5°	2.1	2.1	1.1	1.1	2.1
60°	1.1	1.1	1.1	1.1	1.1
62.5°	1.1	0.0	0.0	0.0	1.1
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



Report Generated By E9808895 / USPTCWHP6082093







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







(END OF REPORT)