

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: P225182

Luminaire Tested: **LD2B10D010 EU2B10FL409050 2LBDSQC\*MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P225182  
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 EU2B10FL409050 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: 852.6 lumens  
Efficiency: N/A  
Efficacy: 82.8 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

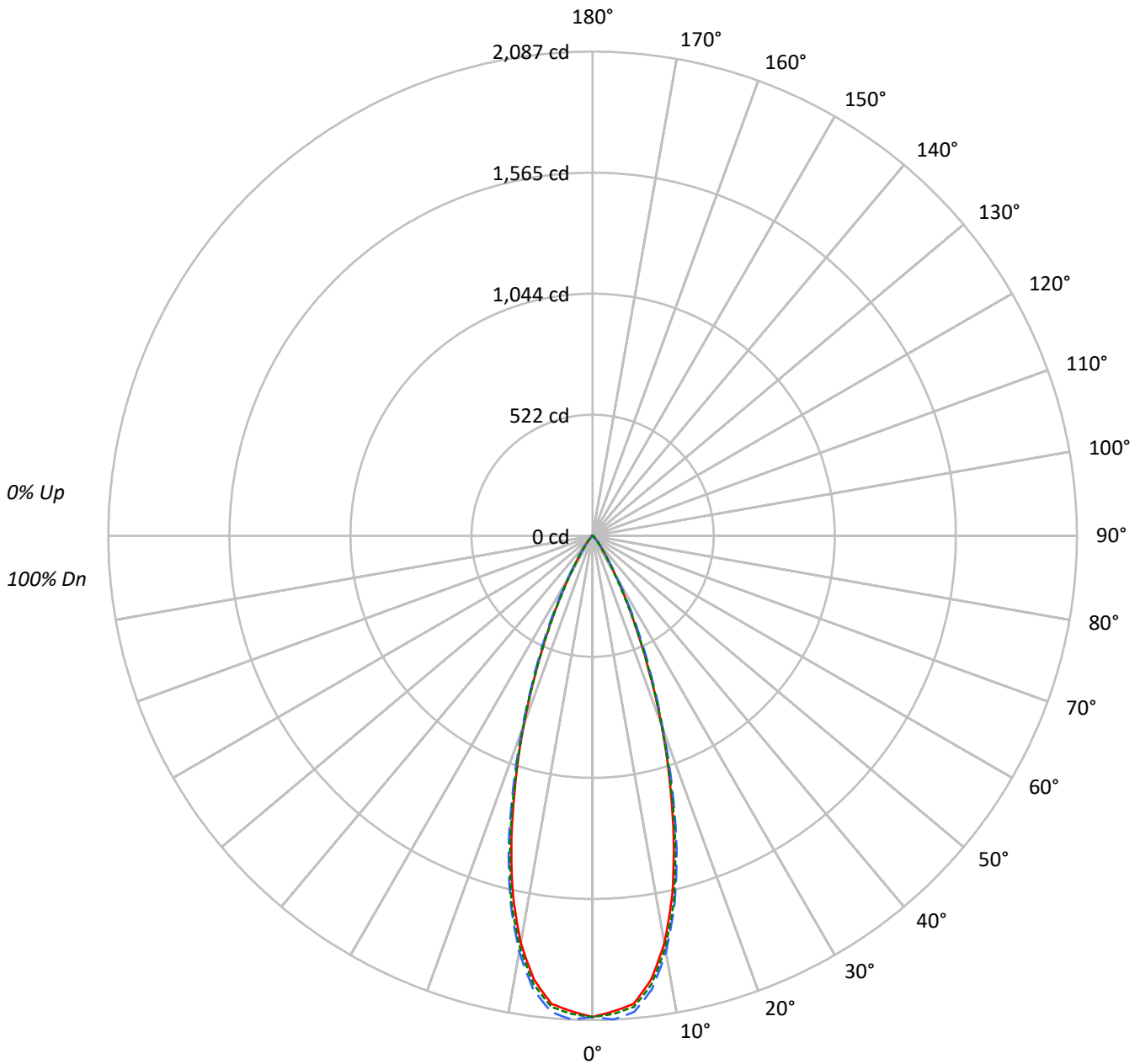
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	803472	803472	803472
5°	787605	801136	792543
10°	700859	715924	708647
15°	541524	561053	551269
20°	357217	364884	359113
25°	194847	208224	195830
30°	87709	97013	84042
35°	37829	38964	34566
40°	15827	16433	14664
45°	6354	7012	7012
50°	2772	3495	3495
55°	1553	1553	2364
60°	930	930	930
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°	187.5	22.0
10°-20°	373.2	43.8
20°-30°	220.4	25.9
30°-40°	57.4	6.7
40°-50°	11.3	1.3
50°-60°	2.5	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°	781.2	91.6
0°-40°	838.5	98.4
0°-60°	852.4	100.0
0°-90°	852.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	852.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2074	2074	2074	2074	2074	
5°	2026	2042	2060	2046	2038	185
15°	1350	1380	1399	1378	1375	366
25°	456	471	487	469	458	215
35°	80	84	82	81	73	56
45°	12	14	13	13	13	11
55°	2	2	2	2	4	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°	2074.3	2074.3	2074.3	2074.3	2074.3
2.5°	2052.2	2073.1	2087.0	2075.4	2062.7
5°	2025.6	2041.8	2060.4	2046.4	2038.3
7.5°	1930.4	1954.8	1968.7	1961.8	1949.0
10°	1781.9	1800.5	1820.2	1813.3	1801.7
12.5°	1585.9	1611.4	1630.0	1613.7	1616.0
15°	1350.4	1380.5	1399.1	1378.2	1374.7
17.5°	1101.0	1124.2	1136.9	1124.2	1114.9
20°	866.6	880.5	885.2	879.4	871.2
22.5°	640.4	655.5	669.4	655.5	645.0
25°	455.9	471.0	487.2	468.7	458.2
27.5°	307.4	316.7	330.6	313.2	298.1
30°	196.1	206.5	216.9	204.2	187.9
32.5°	124.1	131.1	132.3	129.9	116.0
35°	80.0	83.5	82.4	81.2	73.1
37.5°	51.0	51.0	52.2	51.0	46.4
40°	31.3	33.6	32.5	31.3	29.0
42.5°	18.6	20.9	19.7	19.7	18.6
45°	11.6	13.9	12.8	12.8	12.8
47.5°	8.1	9.3	8.1	8.1	9.3
50°	4.6	5.8	5.8	5.8	5.8
52.5°	3.5	3.5	3.5	3.5	4.6
55°	2.3	2.3	2.3	2.3	3.5
57.5°	2.3	2.3	1.2	1.2	2.3
60°	1.2	1.2	1.2	1.2	1.2
62.5°	1.2	0.0	0.0	0.0	1.2
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)