

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 EU2B10FL409030D2W 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 EU2B10FL409030D2W 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: 578.5 lumens  
Efficiency: N/A  
Efficacy: 56.2 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

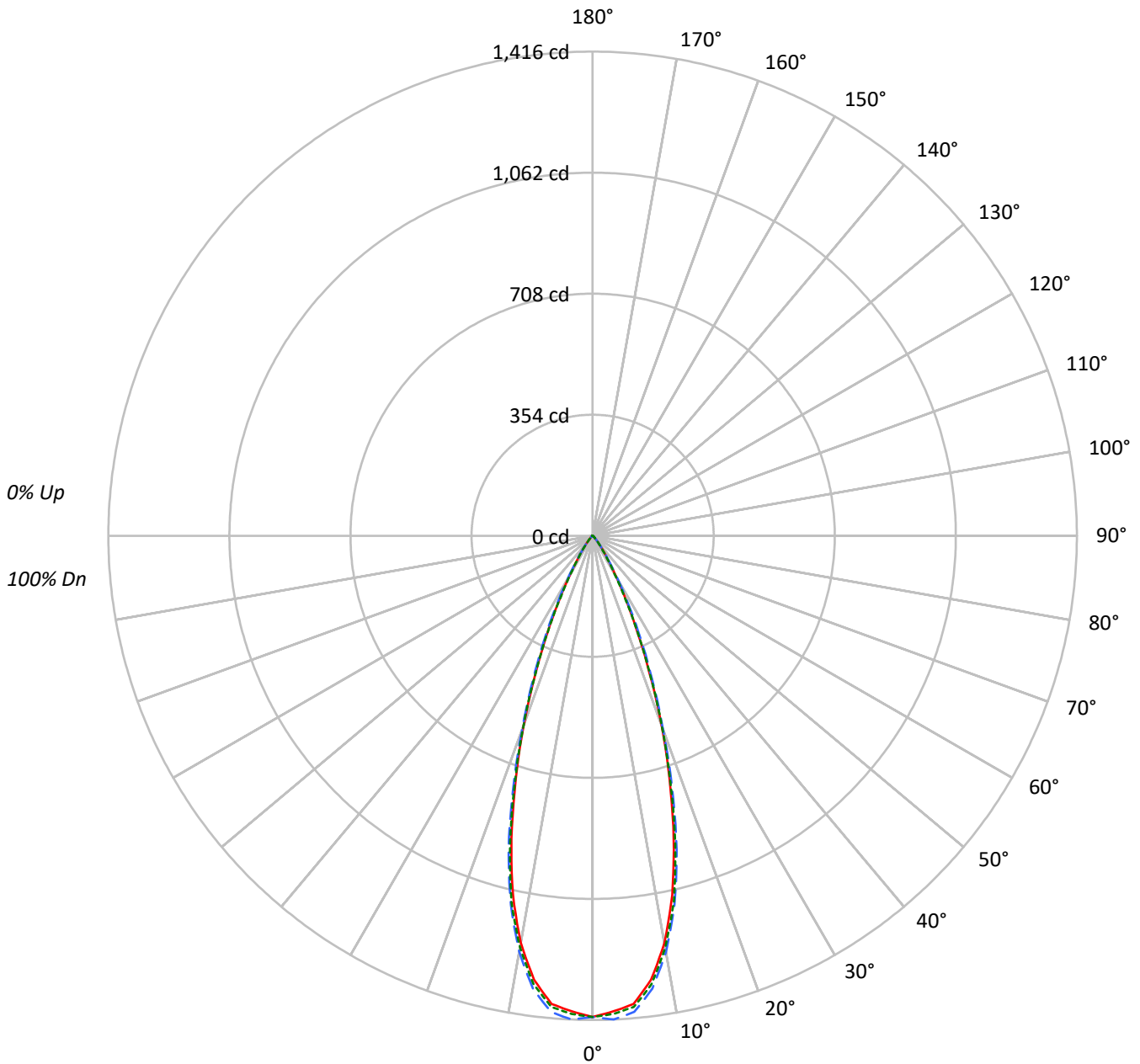
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	545112	545112	545112
5°	534363	543539	537746
10°	475526	485752	480796
15°	367405	380679	374062
20°	242335	247570	243654
25°	132234	141295	132875
30°	59487	65838	57027
35°	25676	26433	23454
40°	10720	11124	9961
45°	4273	4766	4766
50°	1928	2350	2350
55°	1081	1081	1621
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°	127.2	22.0
10°-20°	253.2	43.8
20°-30°	149.6	25.9
30°-40°	38.9	6.7
40°-50°	7.7	1.3
50°-60°	1.7	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°	530.0	91.6
0°-40°	568.9	98.3
0°-60°	578.3	100.0
0°-90°	578.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	578.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1407	1407	1407	1407	1407	
5°	1374	1385	1398	1388	1383	126
15°	916	937	949	935	933	249
25°	309	320	331	318	311	146
35°	54	57	56	55	50	38
45°	8	10	9	9	9	7
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°	1407.3	1407.3	1407.3	1407.3	1407.3
2.5°	1392.4	1406.6	1416.0	1408.2	1399.5
5°	1374.3	1385.4	1397.9	1388.5	1383.0
7.5°	1309.7	1326.3	1335.7	1331.1	1322.4
10°	1209.0	1221.6	1235.0	1230.3	1222.4
12.5°	1076.0	1093.3	1105.9	1094.9	1096.4
15°	916.2	936.7	949.3	935.1	932.8
17.5°	747.0	762.7	771.4	762.7	756.4
20°	587.9	597.4	600.6	596.6	591.1
22.5°	434.5	444.7	454.2	444.7	437.7
25°	309.4	319.6	330.6	318.0	310.9
27.5°	208.6	214.9	224.3	212.5	202.3
30°	133.0	140.1	147.2	138.5	127.5
32.5°	84.2	88.9	89.8	88.1	78.7
35°	54.3	56.7	55.9	55.1	49.6
37.5°	34.6	34.6	35.4	34.6	31.5
40°	21.2	22.8	22.0	21.2	19.7
42.5°	12.6	14.1	13.4	13.4	12.6
45°	7.8	9.5	8.7	8.7	8.7
47.5°	5.5	6.3	5.5	5.5	6.3
50°	3.2	3.9	3.9	3.9	3.9
52.5°	2.4	2.4	2.4	2.4	3.2
55°	1.6	1.6	1.6	1.6	2.4
57.5°	1.6	1.6	0.8	0.8	1.6
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)