

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: P225218

Luminaire Tested: **LD2B05D010 EU2B05FL409040 2LBDSQLC\*MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P225218  
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: LD2B05D010 EU2B05FL409040 2LBDSQLC\*MB  
Description: 500 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: 573.0 lumens  
Efficiency: N/A  
Efficacy: 78.5 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

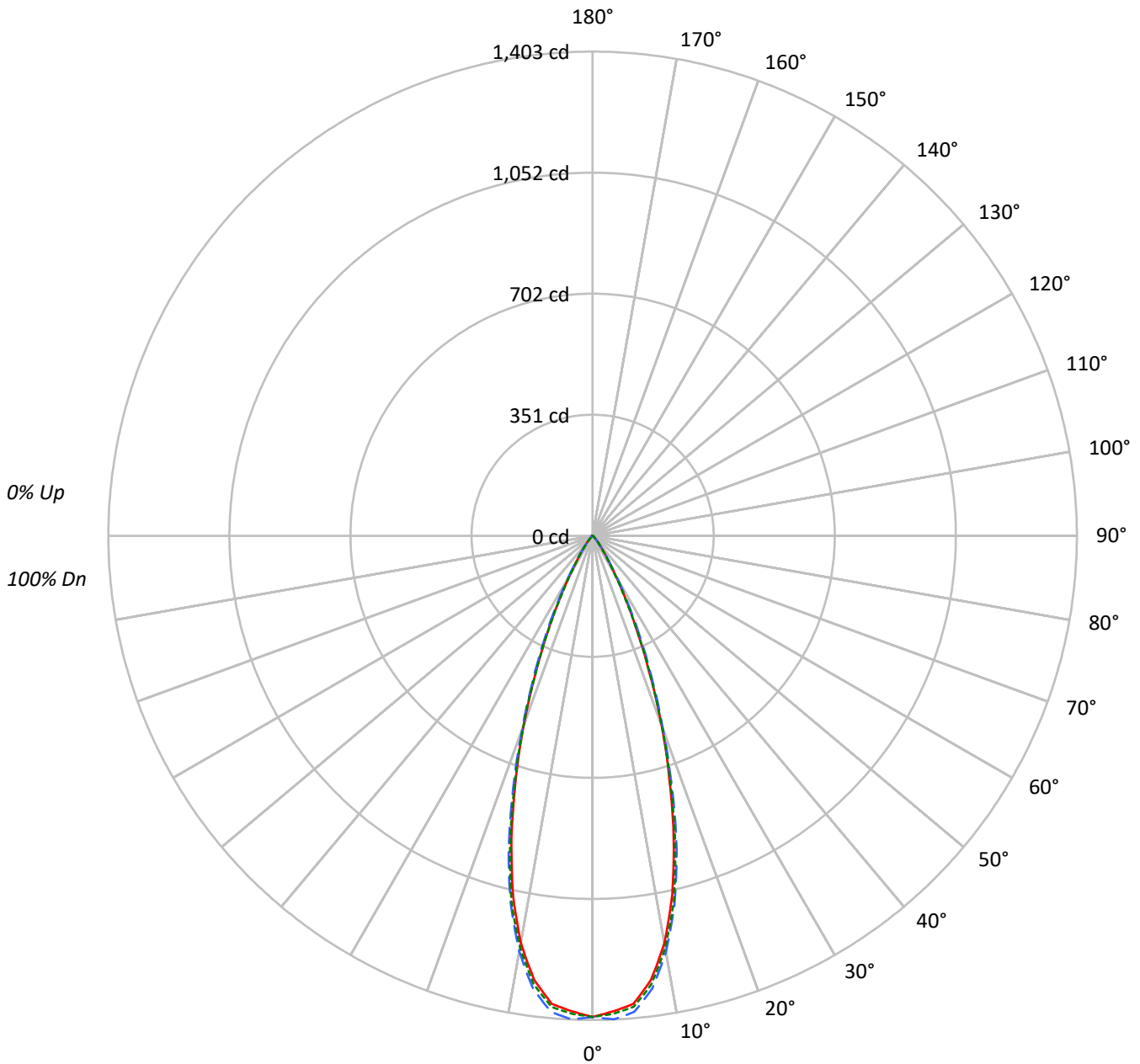
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	539999	539999	539999
5°	529308	538407	532652
10°	471042	481150	476234
15°	363917	377070	370493
20°	240068	245221	241346
25°	130952	139970	131636
30°	58950	65212	56490
35°	25440	26197	23218
40°	10669	11023	9860
45°	4273	4711	4711
50°	1868	2350	2350
55°	1081	1081	1553
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°	126.0	22.0
10°-20°	250.8	43.8
20°-30°	148.2	25.9
30°-40°	38.6	6.7
40°-50°	7.6	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°	525.0	91.6
0°-40°	563.6	98.3
0°-60°	572.9	100.0
0°-90°	573.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	573.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1394	1394	1394	1394	1394	
5°	1361	1372	1385	1375	1370	125
15°	908	928	940	926	924	246
25°	306	316	328	315	308	144
35°	54	56	55	55	49	38
45°	8	9	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°	1394.1	1394.1	1394.1	1394.1	1394.1
2.5°	1379.2	1393.3	1402.6	1394.8	1386.3
5°	1361.3	1372.2	1384.7	1375.3	1369.9
7.5°	1297.4	1313.7	1323.1	1318.4	1309.8
10°	1197.6	1210.0	1223.3	1218.6	1210.8
12.5°	1065.8	1083.0	1095.4	1084.5	1086.1
15°	907.5	927.8	940.3	926.2	923.9
17.5°	739.9	755.5	764.1	755.5	749.3
20°	582.4	591.8	594.9	591.0	585.5
22.5°	430.4	440.5	449.9	440.5	433.5
25°	306.4	316.5	327.5	315.0	308.0
27.5°	206.6	212.8	222.2	210.5	200.4
30°	131.8	138.8	145.8	137.2	126.3
32.5°	83.4	88.1	88.9	87.3	78.0
35°	53.8	56.1	55.4	54.6	49.1
37.5°	34.3	34.3	35.1	34.3	31.2
40°	21.1	22.6	21.8	21.1	19.5
42.5°	12.5	14.0	13.3	13.3	12.5
45°	7.8	9.4	8.6	8.6	8.6
47.5°	5.5	6.2	5.5	5.5	6.2
50°	3.1	3.9	3.9	3.9	3.9
52.5°	2.3	2.3	2.3	2.3	3.1
55°	1.6	1.6	1.6	1.6	2.3
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)