

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: P225170

Luminaire Tested: **LD2B05D010 EU2B05FL409035 2LBDSQC\*MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P225170  
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 EU2B05FL409035 2LBDSQC\*MB  
Description: 500 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: 609.0 lumens  
Efficiency: N/A  
Efficacy: 83.4 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

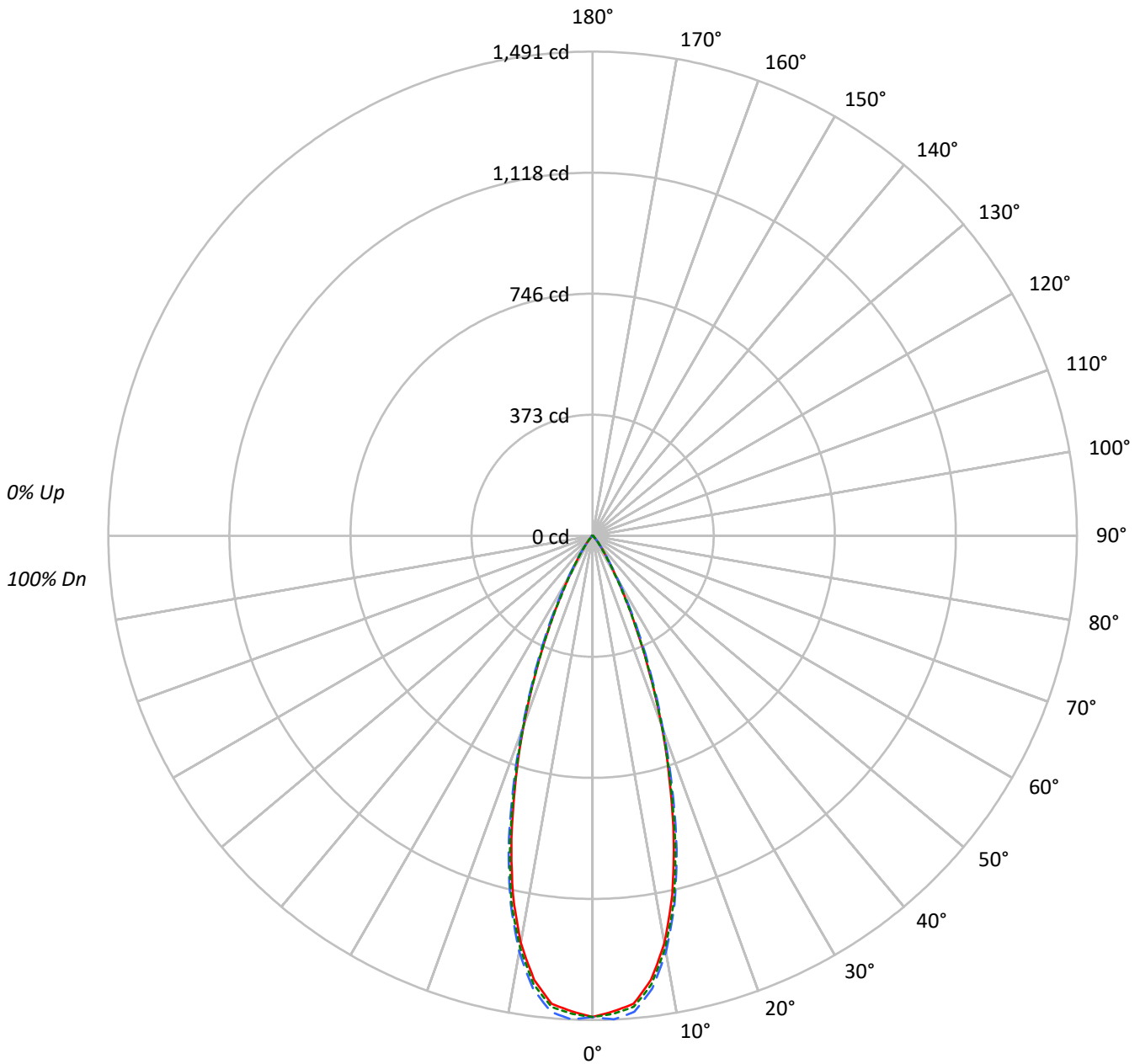
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				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°	573892	573892	573892
5°	562553	572235	566091
10°	500620	511397	506165
15°	386814	400769	393792
20°	255155	260637	256515
25°	139201	148731	139884
30°	62618	69327	60023
35°	27048	27804	24683
40°	11326	11731	10467
45°	4547	4985	4985
50°	1989	2471	2471
55°	1148	1148	1688
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°	133.9	22.0
10°-20°	266.6	43.8
20°-30°	157.5	25.9
30°-40°	41.0	6.7
40°-50°	8.1	1.3
50°-60°	1.8	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°	558.0	91.6
0°-40°	599.0	98.4
0°-60°	608.9	100.0
0°-90°	609.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	609.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1482	1482	1482	1482	1482	
5°	1447	1458	1472	1462	1456	132
15°	965	986	999	984	982	262
25°	326	336	348	335	327	153
35°	57	60	59	58	52	40
45°	8	10	9	9	9	8
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°	1481.6	1481.6	1481.6	1481.6	1481.6
2.5°	1465.9	1480.8	1490.7	1482.5	1473.3
5°	1446.8	1458.4	1471.7	1461.7	1455.9
7.5°	1378.9	1396.3	1406.2	1401.3	1392.1
10°	1272.8	1286.1	1300.2	1295.2	1286.9
12.5°	1132.8	1151.0	1164.3	1152.7	1154.3
15°	964.6	986.1	999.4	984.4	982.0
17.5°	786.4	803.0	812.1	803.0	796.3
20°	619.0	628.9	632.3	628.1	622.3
22.5°	457.4	468.2	478.1	468.2	460.7
25°	325.7	336.4	348.0	334.8	327.3
27.5°	219.6	226.2	236.2	223.7	213.0
30°	140.0	147.5	155.0	145.8	134.2
32.5°	88.7	93.6	94.5	92.8	82.9
35°	57.2	59.7	58.8	58.0	52.2
37.5°	36.5	36.5	37.3	36.5	33.1
40°	22.4	24.0	23.2	22.4	20.7
42.5°	13.3	14.9	14.1	14.1	13.3
45°	8.3	9.9	9.1	9.1	9.1
47.5°	5.8	6.6	5.8	5.8	6.6
50°	3.3	4.1	4.1	4.1	4.1
52.5°	2.5	2.5	2.5	2.5	3.3
55°	1.7	1.7	1.7	1.7	2.5
57.5°	1.7	1.7	0.8	0.8	1.7
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)