

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: P225244

Luminaire Tested: **LD2B05D010 EU2B05FL408050 2LBDSQLC\*MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P225244  
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 EU2B05FL408050 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: 700.0 lumens  
Efficiency: N/A  
Efficacy: 95.9 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

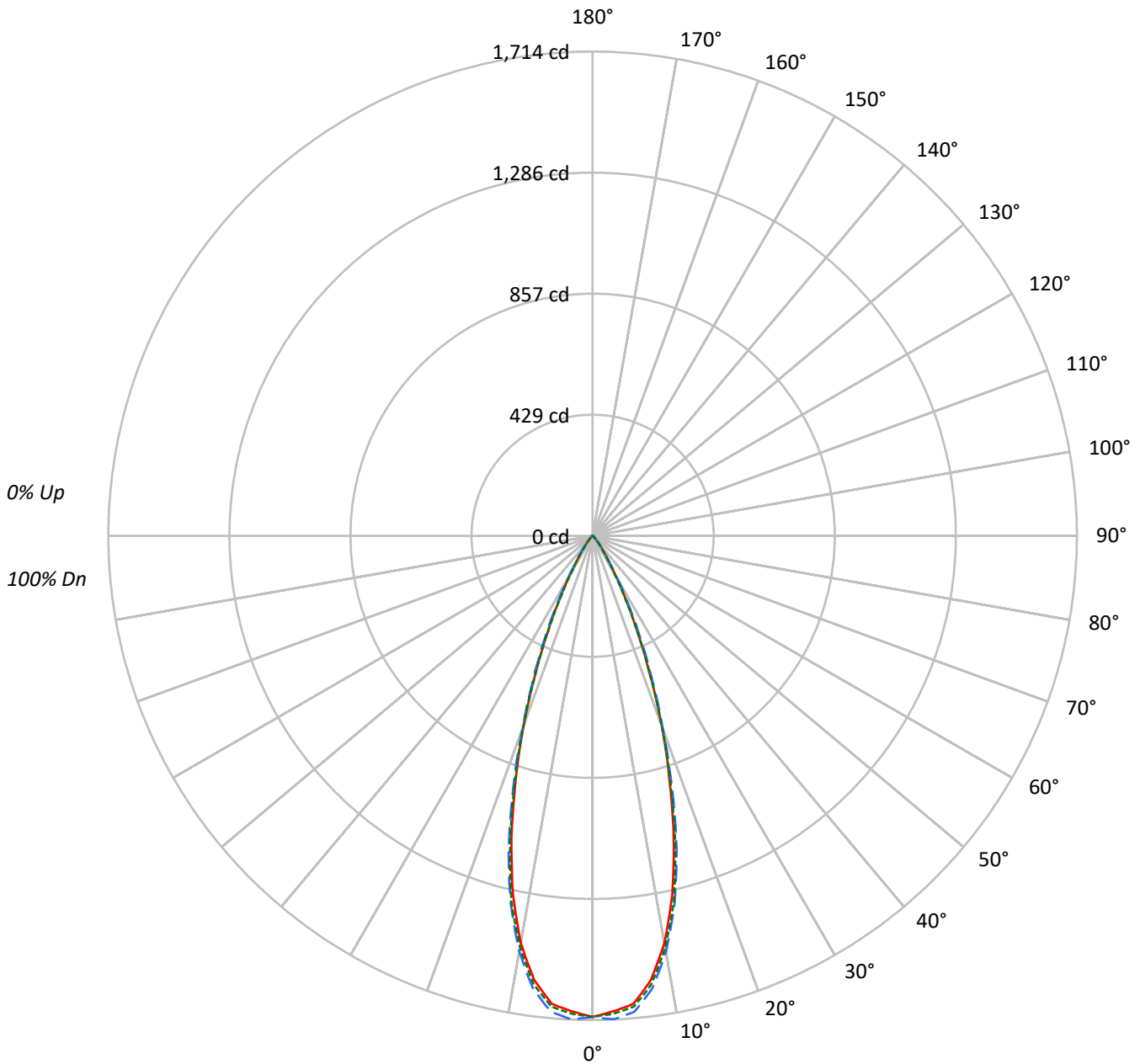
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	659650	659650	659650
5°	646617	657737	650700
10°	575429	587780	581801
15°	444600	460640	452620
20°	293284	299549	294850
25°	159972	170956	160784
30°	72010	79659	69014
35°	31067	31965	28372
40°	12995	13501	12034
45°	5204	5752	5752
50°	2290	2892	2892
55°	1283	1283	1958
60°	775	775	775
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°	153.9	22.0
10°-20°	306.4	43.8
20°-30°	181.0	25.9
30°-40°	47.1	6.7
40°-50°	9.3	1.3
50°-60°	2.1	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°	641.3	91.6
0°-40°	688.5	98.3
0°-60°	699.8	100.0
0°-90°	700.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	700.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1703	1703	1703	1703	1703	
5°	1663	1676	1692	1680	1674	152
15°	1109	1133	1149	1132	1129	301
25°	374	387	400	385	376	176
35°	66	69	68	67	60	46
45°	10	11	10	10	10	9
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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1703.0	1703.0	1703.0	1703.0	1703.0
2.5°	1684.9	1702.1	1713.5	1704.0	1693.5
5°	1663.0	1676.4	1691.6	1680.2	1673.5
7.5°	1584.9	1604.9	1616.4	1610.6	1600.2
10°	1463.0	1478.2	1494.4	1488.7	1479.2
12.5°	1302.0	1323.0	1338.2	1324.9	1326.8
15°	1108.7	1133.4	1148.7	1131.5	1128.7
17.5°	903.9	923.0	933.4	923.0	915.3
20°	711.5	722.9	726.7	722.0	715.3
22.5°	525.8	538.1	549.6	538.1	529.6
25°	374.3	386.7	400.0	384.8	376.2
27.5°	252.4	260.0	271.5	257.2	244.8
30°	161.0	169.5	178.1	167.6	154.3
32.5°	101.9	107.6	108.6	106.7	95.2
35°	65.7	68.6	67.6	66.7	60.0
37.5°	41.9	41.9	42.9	41.9	38.1
40°	25.7	27.6	26.7	25.7	23.8
42.5°	15.2	17.1	16.2	16.2	15.2
45°	9.5	11.4	10.5	10.5	10.5
47.5°	6.7	7.6	6.7	6.7	7.6
50°	3.8	4.8	4.8	4.8	4.8
52.5°	2.9	2.9	2.9	2.9	3.8
55°	1.9	1.9	1.9	1.9	2.9
57.5°	1.9	1.9	1.0	1.0	1.9
60°	1.0	1.0	1.0	1.0	1.0
62.5°	1.0	0.0	0.0	0.0	1.0
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)