

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: P225219

Luminaire Tested: **LD2B05D010 EU2B05FL409050 2LBDSQLC\*MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P225219  
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 EU2B05FL409050 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: 588.0 lumens  
Efficiency: N/A  
Efficacy: 80.5 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

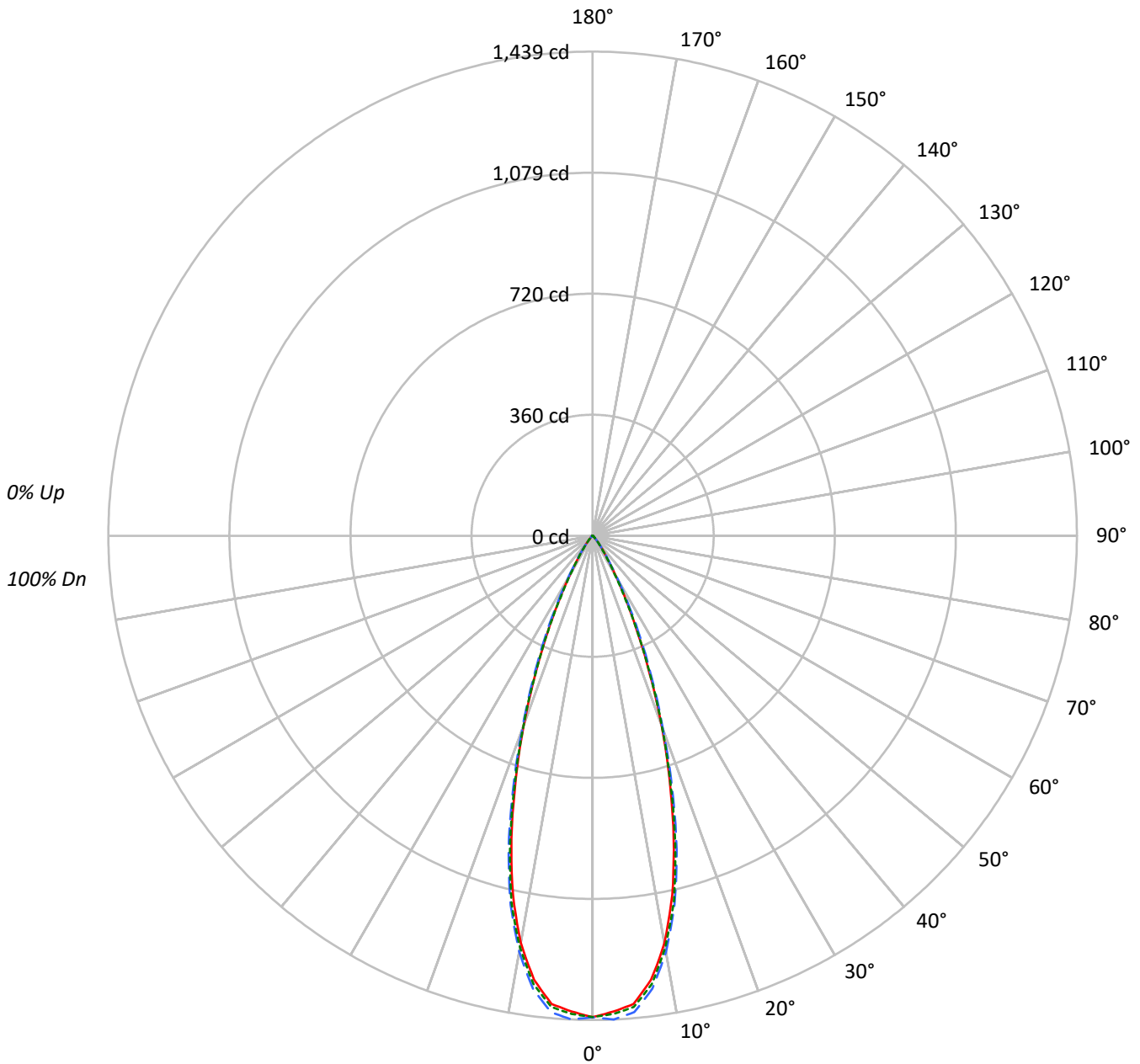
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	554098	554098	554098
5°	543150	552482	546572
10°	483353	493736	488702
15°	373461	386935	380198
20°	246375	251651	247694
25°	134371	143603	135055
30°	60471	66911	57966
35°	26102	26859	23832
40°	10922	11326	10113
45°	4382	4821	4821
50°	1928	2410	2410
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°	129.3	22.0
10°-20°	257.4	43.8
20°-30°	152.0	25.9
30°-40°	39.6	6.7
40°-50°	7.8	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°	538.7	91.6
0°-40°	578.3	98.4
0°-60°	587.8	100.0
0°-90°	588.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	588.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1430	1430	1430	1430	1430	
5°	1397	1408	1421	1411	1406	128
15°	931	952	965	950	948	253
25°	314	325	336	323	316	148
35°	55	58	57	56	50	39
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°	1430.5	1430.5	1430.5	1430.5	1430.5
2.5°	1415.3	1429.7	1439.3	1431.3	1422.5
5°	1396.9	1408.1	1420.9	1411.3	1405.7
7.5°	1331.3	1348.1	1357.7	1352.9	1344.1
10°	1228.9	1241.7	1255.3	1250.5	1242.5
12.5°	1093.7	1111.3	1124.1	1112.9	1114.5
15°	931.3	952.1	964.9	950.5	948.1
17.5°	759.3	775.3	784.1	775.3	768.9
20°	597.7	607.3	610.5	606.5	600.9
22.5°	441.6	452.0	461.6	452.0	444.8
25°	314.4	324.8	336.0	323.2	316.0
27.5°	212.0	218.4	228.0	216.0	205.6
30°	135.2	142.4	149.6	140.8	129.6
32.5°	85.6	90.4	91.2	89.6	80.0
35°	55.2	57.6	56.8	56.0	50.4
37.5°	35.2	35.2	36.0	35.2	32.0
40°	21.6	23.2	22.4	21.6	20.0
42.5°	12.8	14.4	13.6	13.6	12.8
45°	8.0	9.6	8.8	8.8	8.8
47.5°	5.6	6.4	5.6	5.6	6.4
50°	3.2	4.0	4.0	4.0	4.0
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)