

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: P225174

Luminaire Tested: **LD2B05D010 EU2B05FL409730 2LBDSQC\*MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P225174  
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 EU2B05FL409730 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: 538.0 lumens  
Efficiency: N/A  
Efficacy: 73.7 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

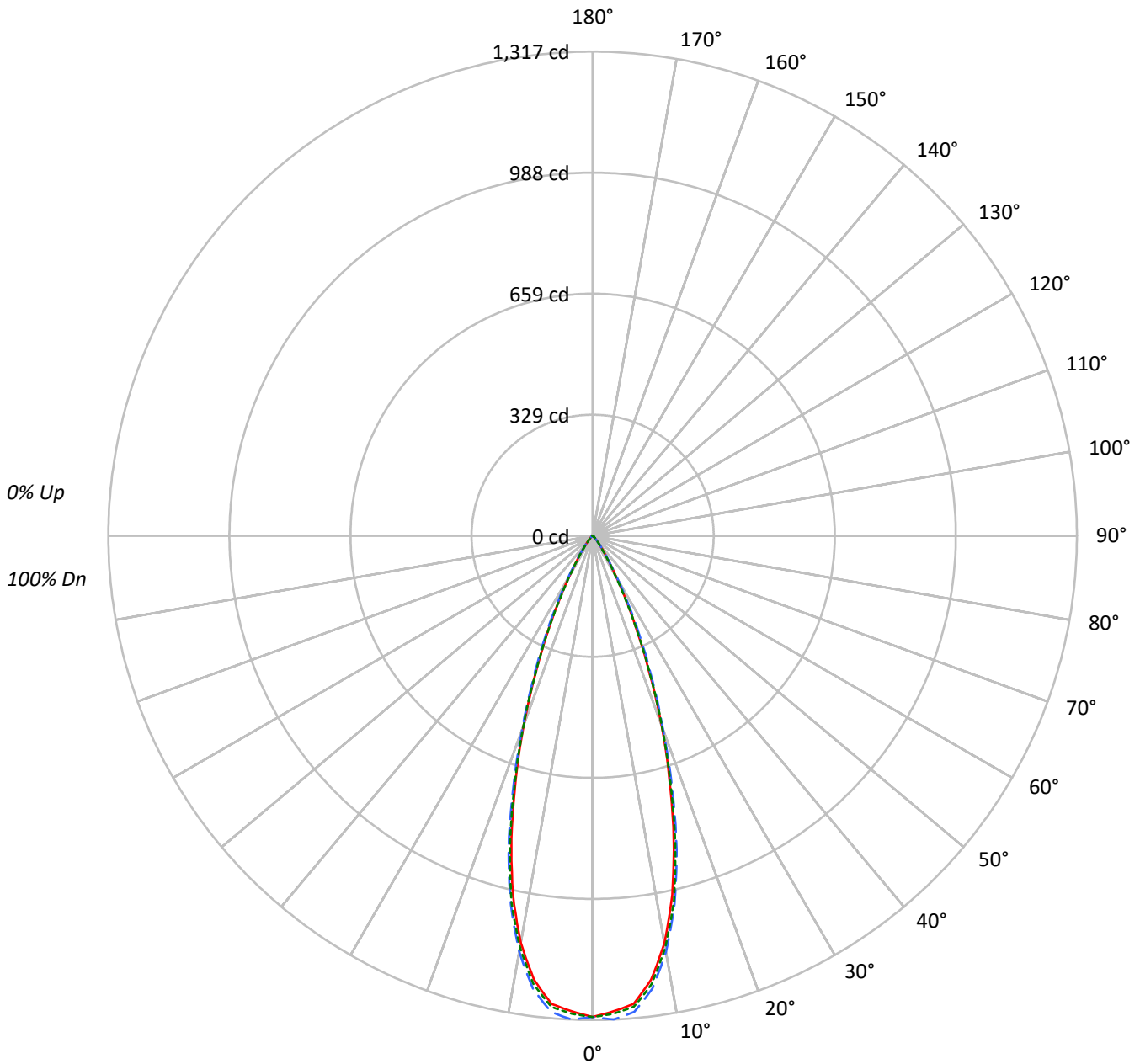
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	506997	506997	506997
5°	496997	505512	500107
10°	442251	451769	447167
15°	341701	354012	347876
20°	225394	230258	226630
25°	122960	131422	123601
30°	55327	61231	53046
35°	23880	24589	21799
40°	10012	10366	9253
45°	3999	4437	4437
50°	1748	2230	2230
55°	1013	1013	1486
60°	542	542	542
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°	118.3	22.0
10°-20°	235.5	43.8
20°-30°	139.1	25.9
30°-40°	36.2	6.7
40°-50°	7.2	1.3
50°-60°	1.6	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°	492.9	91.6
0°-40°	529.1	98.4
0°-60°	537.9	100.0
0°-90°	538.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	538.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1309	1309	1309	1309	1309	
5°	1278	1288	1300	1291	1286	117
15°	852	871	883	870	868	231
25°	288	297	308	296	289	136
35°	50	53	52	51	46	35
45°	7	9	8	8	8	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°	1308.9	1308.9	1308.9	1308.9	1308.9
2.5°	1295.0	1308.2	1317.0	1309.6	1301.6
5°	1278.2	1288.4	1300.1	1291.3	1286.2
7.5°	1218.1	1233.5	1242.3	1237.9	1229.8
10°	1124.4	1136.1	1148.6	1144.2	1136.9
12.5°	1000.7	1016.8	1028.5	1018.3	1019.7
15°	852.1	871.1	882.8	869.7	867.5
17.5°	694.7	709.4	717.4	709.4	703.5
20°	546.8	555.6	558.6	554.9	549.8
22.5°	404.1	413.6	422.4	413.6	407.0
25°	287.7	297.2	307.5	295.7	289.2
27.5°	194.0	199.8	208.6	197.7	188.1
30°	123.7	130.3	136.9	128.8	118.6
32.5°	78.3	82.7	83.5	82.0	73.2
35°	50.5	52.7	52.0	51.2	46.1
37.5°	32.2	32.2	32.9	32.2	29.3
40°	19.8	21.2	20.5	19.8	18.3
42.5°	11.7	13.2	12.4	12.4	11.7
45°	7.3	8.8	8.1	8.1	8.1
47.5°	5.1	5.9	5.1	5.1	5.9
50°	2.9	3.7	3.7	3.7	3.7
52.5°	2.2	2.2	2.2	2.2	2.9
55°	1.5	1.5	1.5	1.5	2.2
57.5°	1.5	1.5	0.7	0.7	1.5
60°	0.7	0.7	0.7	0.7	0.7
62.5°	0.7	0.0	0.0	0.0	0.7
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)