

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: P#

Luminaire Tested: **LD2B10D010 EU2B10WFL558050 2LBDSQLC\*MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14812)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B10D010 EU2B10WFL558050 2LBDSQLC\*MB  
Description: 1000 Lumen, 2inch Portfolio LED Downlight  
WIDE FLOOD OPTIC  
LENSED SQUARE CAST TRIM WITH MATTE BLACK FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 875.2 lumens  
Efficiency: N/A  
Efficacy: 85.0 lumens/watt  
Spacing Criteria (0/90/45): 0.78 / 0.76 / 0.83  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

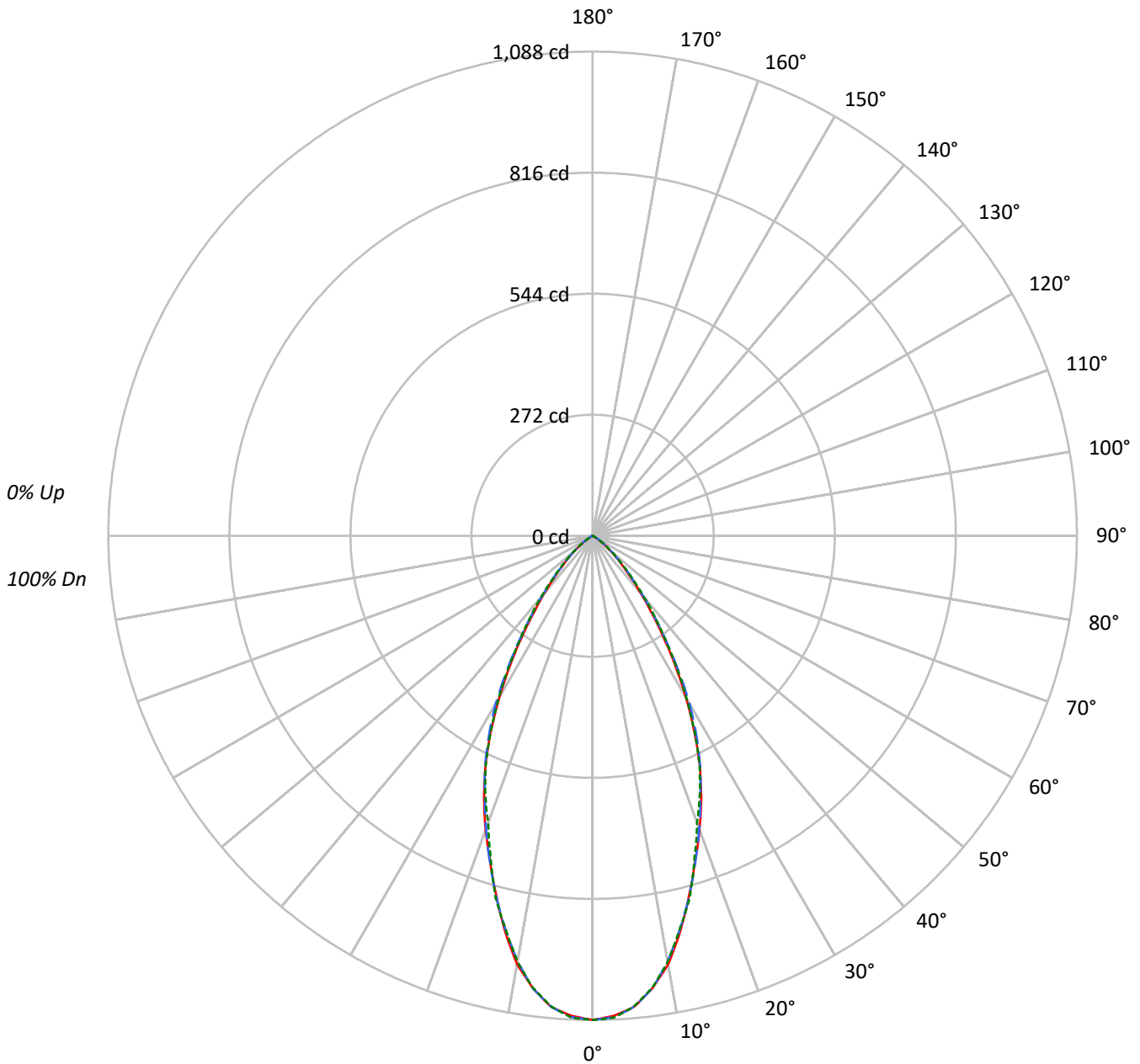
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86																			
3	102	95	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80																			
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	79	76	74																			
5	92	83	77	73	90	82	77	72	80	75	72	79	74	71	77	73	70	69																			
6	87	78	72	67	85	77	71	67	76	70	67	74	70	66	73	69	66	64																			
7	83	73	67	63	81	72	67	62	71	66	62	70	65	62	69	65	61	60																			
8	78	69	63	58	77	68	62	58	67	62	58	66	61	58	65	61	58	56																			
9	75	65	59	55	74	64	59	55	63	58	54	62	58	54	62	57	54	53																			
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	50																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	421471	421471	421471
5°	413399	413399	412894
10°	384511	381797	382348
15°	335565	336127	337771
20°	289698	288585	282896
25°	243142	244338	242543
30°	187137	194562	188971
35°	130605	135806	134529
40°	85201	88690	91471
45°	52204	55217	57463
50°	30793	33264	34951
55°	13034	16815	15870
60°	2169	4261	3176
65°	1283	1283	1283
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°	98.6	11.3
10°-20°	233.2	26.6
20°-30°	258.3	29.5
30°-40°	179.8	20.5
40°-50°	80.9	9.2
50°-60°	22.8	2.6
60°-70°	1.6	0.2
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°	590.1	67.4
0°-40°	769.9	88.0
0°-60°	873.6	99.8
0°-90°	875.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	875.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1088	1088	1088	1088	1088	
5°	1063	1067	1063	1059	1062	99
15°	837	841	838	837	842	234
25°	569	573	572	565	568	258
35°	276	284	287	287	284	174
45°	95	98	101	104	105	77
55°	19	22	25	25	24	20
65°	1	1	1	1	1	1
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°	1088.1	1088.1	1088.1	1088.1	1088.1
2.5°	1079.8	1085.3	1082.6	1082.6	1084.0
5°	1063.2	1067.4	1063.2	1059.1	1061.9
7.5°	1026.0	1030.1	1026.0	1023.2	1024.6
10°	977.6	974.9	970.7	968.0	972.1
12.5°	910.0	908.6	905.8	904.4	904.4
15°	836.8	840.9	838.2	836.8	842.3
17.5°	766.4	770.5	767.7	763.6	760.8
20°	702.8	704.2	700.1	693.2	686.3
22.5°	637.9	639.3	632.4	629.7	629.7
25°	568.9	573.0	571.7	564.8	567.5
27.5°	494.3	501.2	504.0	495.7	495.7
30°	418.4	423.9	435.0	423.9	422.5
32.5°	343.8	352.1	357.6	356.3	352.1
35°	276.2	284.5	287.2	287.2	284.5
37.5°	215.4	223.7	226.5	229.2	229.2
40°	168.5	172.6	175.4	179.5	180.9
42.5°	127.0	131.2	135.3	138.1	136.7
45°	95.3	98.0	100.8	103.6	104.9
47.5°	71.8	71.8	74.6	77.3	77.3
50°	51.1	53.9	55.2	56.6	58.0
52.5°	34.5	35.9	38.7	40.0	38.7
55°	19.3	22.1	24.9	24.9	23.5
57.5°	8.3	12.4	13.8	13.8	11.0
60°	2.8	5.5	5.5	6.9	4.1
62.5°	1.4	2.8	2.8	2.8	1.4
65°	1.4	1.4	1.4	1.4	1.4
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)