

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 EU2B10WFL558040 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 EU2B10WFL558040 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: 880.6 lumens  
Efficiency: N/A  
Efficacy: 85.5 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

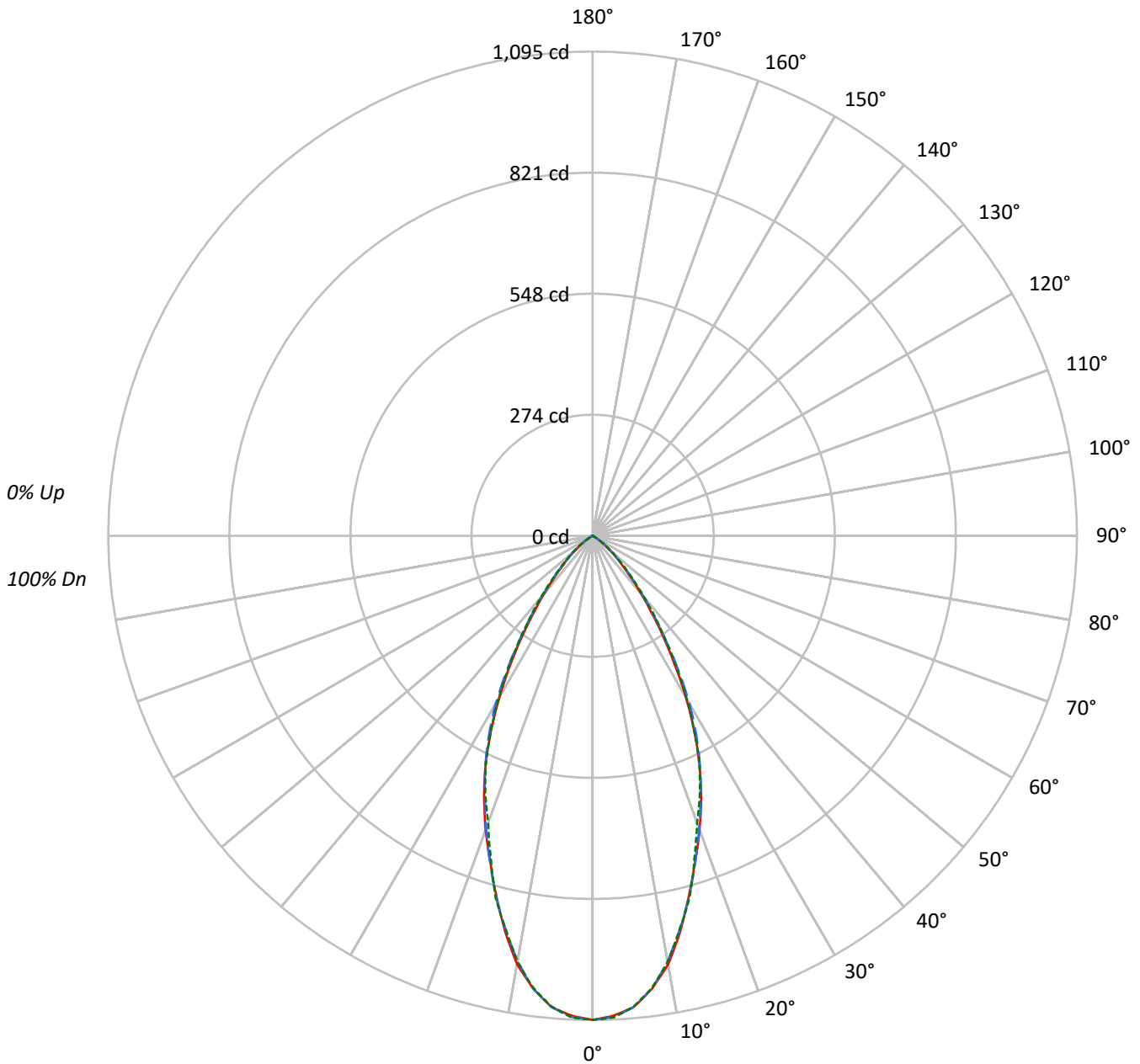
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	424066	424066	424066
5°	415966	415966	415421
10°	386910	384157	384708
15°	337610	338172	339856
20°	291511	290357	284628
25°	244637	245834	244039
30°	188300	195725	190134
35°	131408	136657	135333
40°	85707	89196	92027
45°	52533	55546	57847
50°	30974	33505	35192
55°	13169	16883	15937
60°	2169	4338	3254
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°	99.2	11.3
10°-20°	234.6	26.6
20°-30°	259.9	29.5
30°-40°	180.9	20.5
40°-50°	81.4	9.2
50°-60°	23.0	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°	593.7	67.4
0°-40°	774.6	88.0
0°-60°	879.0	99.8
0°-90°	880.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	880.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1095	1095	1095	1095	1095	
5°	1070	1074	1070	1066	1068	99
15°	842	846	843	842	848	235
25°	572	577	575	568	571	259
35°	278	286	289	289	286	175
45°	96	99	101	104	106	77
55°	20	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°	1094.8	1094.8	1094.8	1094.8	1094.8
2.5°	1086.5	1092.0	1089.2	1089.2	1090.6
5°	1069.8	1074.0	1069.8	1065.6	1068.4
7.5°	1032.3	1036.5	1032.3	1029.5	1030.9
10°	983.7	980.9	976.7	973.9	978.1
12.5°	915.6	914.2	911.4	910.0	910.0
15°	841.9	846.1	843.3	841.9	847.5
17.5°	771.1	775.3	772.5	768.3	765.5
20°	707.2	708.6	704.4	697.5	690.5
22.5°	641.9	643.3	636.3	633.5	633.5
25°	572.4	576.6	575.2	568.2	571.0
27.5°	497.4	504.3	507.1	498.8	498.8
30°	421.0	426.5	437.6	426.5	425.1
32.5°	345.9	354.3	359.8	358.5	354.3
35°	277.9	286.2	289.0	289.0	286.2
37.5°	216.7	225.1	227.9	230.6	230.6
40°	169.5	173.7	176.4	180.6	182.0
42.5°	127.8	132.0	136.2	138.9	137.5
45°	95.9	98.6	101.4	104.2	105.6
47.5°	72.2	72.2	75.0	77.8	77.8
50°	51.4	54.2	55.6	57.0	58.4
52.5°	34.7	36.1	38.9	40.3	38.9
55°	19.5	22.2	25.0	25.0	23.6
57.5°	8.3	12.5	13.9	13.9	11.1
60°	2.8	5.6	5.6	6.9	4.2
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)