

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: P225183

Luminaire Tested: **LD2B10D010 EU2B10FL409727 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225183
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: LD2B10D010 EU2B10FL409727 2LBDSQC*MB
Description: 1000 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: 675.1 lumens
Efficiency: N/A
Efficacy: 65.5 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

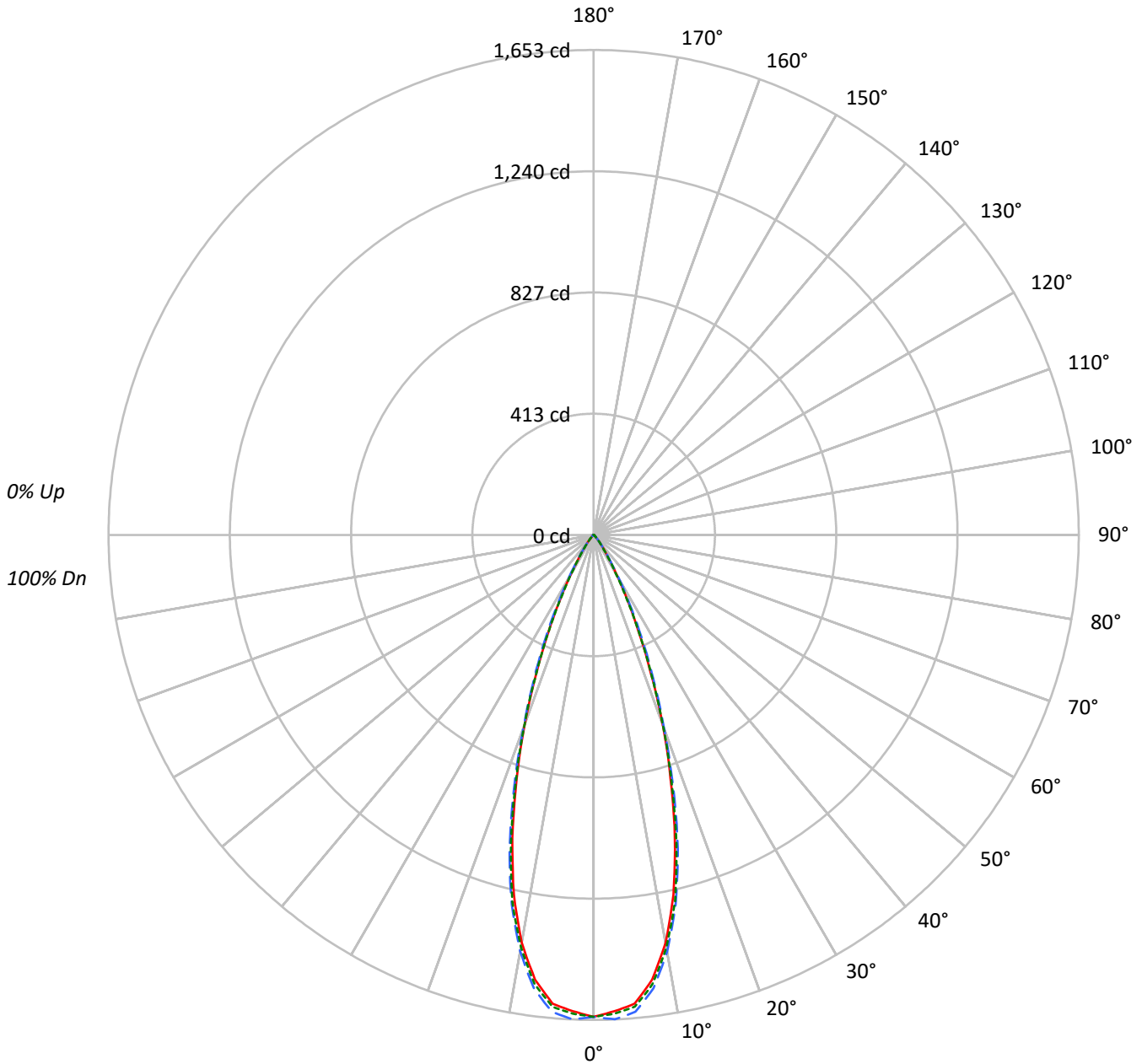
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225183

CATALOG NUMBER: LD2B10D010 EU2B10FL409727 2LBDSQC*MB

Luminous Intensity Polar Plot





TEST NUMBER: P225183

CATALOG NUMBER: LD2B10D010 EU2B10FL409727 2LBDSQC*MB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									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	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°	636177	636177	636177
5°	623637	634330	627564
10°	554977	566894	561112
15°	428760	444239	436499
20°	282855	288914	284380
25°	154287	164887	155057
30°	69416	76841	66554
35°	29979	30831	27379
40°	12540	12995	11630
45°	5040	5533	5533
50°	2230	2772	2772
55°	1216	1216	1891
60°	697	697	697
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P225183

CATALOG NUMBER: LD2B10D010 EU2B10FL409727 2LBDSQC*MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.5	22.0
10°-20°	295.5	43.8
20°-30°	174.6	25.9
30°-40°	45.4	6.7
40°-50°	9.0	1.3
50°-60°	2.0	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°	618.5	91.6
0°-40°	664.0	98.4
0°-60°	674.9	100.0
0°-90°	675.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	675.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1642	1642	1642	1642	1642	
5°	1604	1617	1631	1620	1614	147
15°	1069	1093	1108	1091	1088	290
25°	361	373	386	371	363	170
35°	63	66	65	64	58	44
45°	9	11	10	10	10	8
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	



TEST NUMBER: P225183

CATALOG NUMBER: LD2B10D010 EU2B10FL409727 2LBDSQC*MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1642.4	1642.4	1642.4	1642.4	1642.4
2.5°	1625.0	1641.5	1652.6	1643.4	1633.3
5°	1603.9	1616.7	1631.4	1620.4	1614.0
7.5°	1528.5	1547.8	1558.9	1553.3	1543.2
10°	1411.0	1425.7	1441.3	1435.8	1426.6
12.5°	1255.7	1275.9	1290.6	1277.8	1279.6
15°	1069.2	1093.1	1107.8	1091.3	1088.5
17.5°	871.7	890.1	900.2	890.1	882.8
20°	686.2	697.2	700.9	696.3	689.9
22.5°	507.1	519.0	530.0	519.0	510.7
25°	361.0	372.9	385.8	371.1	362.8
27.5°	243.4	250.8	261.8	248.0	236.1
30°	155.2	163.5	171.8	161.7	148.8
32.5°	98.3	103.8	104.7	102.9	91.9
35°	63.4	66.1	65.2	64.3	57.9
37.5°	40.4	40.4	41.3	40.4	36.7
40°	24.8	26.6	25.7	24.8	23.0
42.5°	14.7	16.5	15.6	15.6	14.7
45°	9.2	11.0	10.1	10.1	10.1
47.5°	6.4	7.3	6.4	6.4	7.3
50°	3.7	4.6	4.6	4.6	4.6
52.5°	2.8	2.8	2.8	2.8	3.7
55°	1.8	1.8	1.8	1.8	2.8
57.5°	1.8	1.8	0.9	0.9	1.8
60°	0.9	0.9	0.9	0.9	0.9
62.5°	0.9	0.0	0.0	0.0	0.9
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



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)