

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: P225222

Luminaire Tested: **LD2B10D010 EU2B10FL409030D2W 2LBDSQLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225222
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 EU2B10FL409030D2W 2LBDSQLC*MB
Description: 1000 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: 533.1 lumens
Efficiency: N/A
Efficacy: 51.8 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

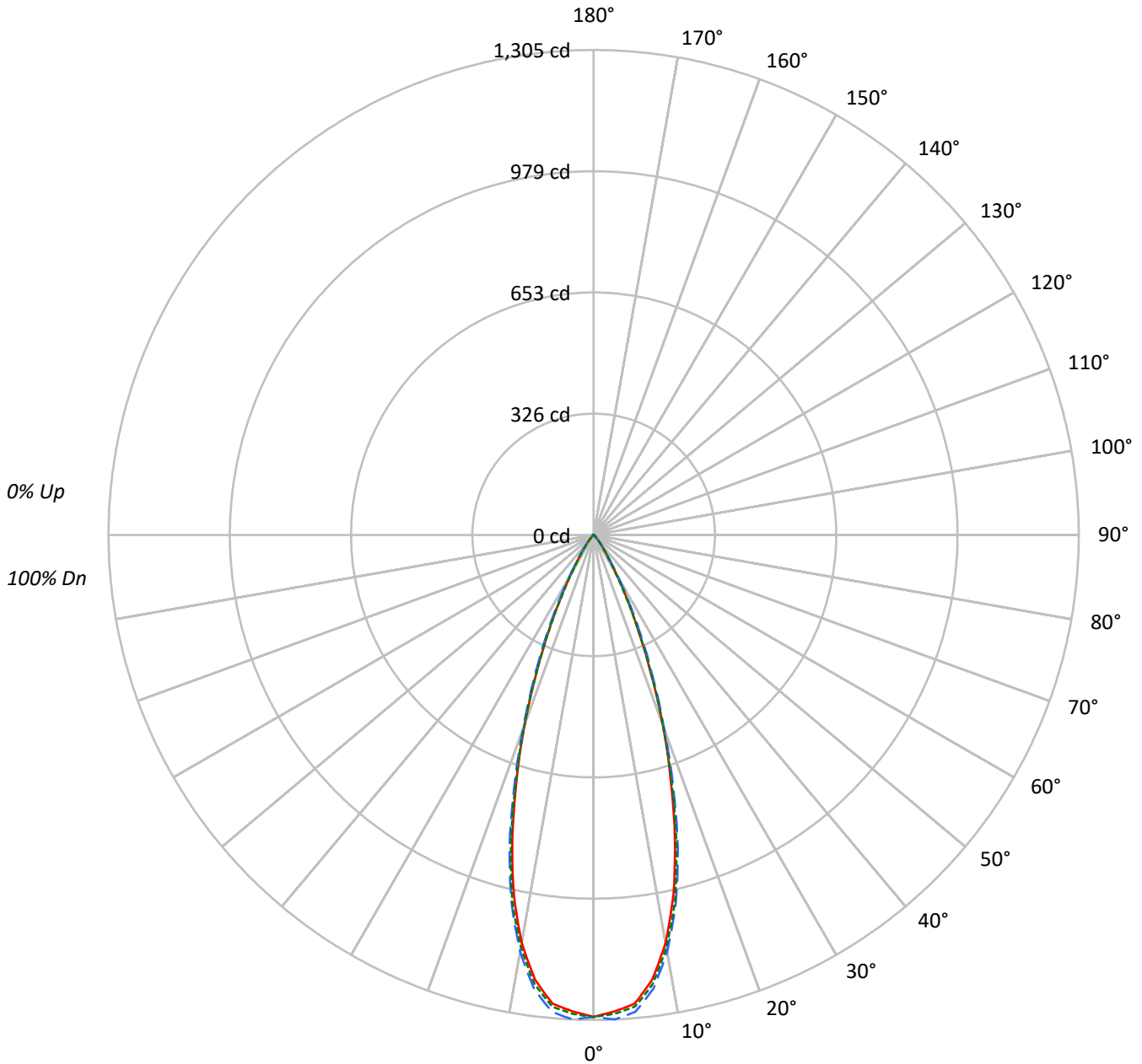
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225222

CATALOG NUMBER: LD2B10D010 EU2B10FL409030D2W 2LBDSQLC*MB

Luminous Intensity Polar Plot





TEST NUMBER: P225222

CATALOG NUMBER: LD2B10D010 EU2B10FL409030D2W 2LBDSQLC*MB

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°	502388	502388	502388
5°	492448	500924	495558
10°	438239	447678	443077
15°	338613	350804	344708
20°	223333	228155	224569
25°	121849	130225	122447
30°	54835	60650	52554
35°	23643	24352	21610
40°	9911	10265	9152
45°	3999	4382	4382
50°	1748	2169	2169
55°	1013	1013	1418
60°	542	542	542
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P225222

CATALOG NUMBER: LD2B10D010 EU2B10FL409030D2W 2LBDSQLC*MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.2	22.0
10°-20°	233.4	43.8
20°-30°	137.8	25.9
30°-40°	35.9	6.7
40°-50°	7.1	1.3
50°-60°	1.5	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°	488.4	91.6
0°-40°	524.3	98.4
0°-60°	533.0	100.0
0°-90°	533.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	533.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1297	1297	1297	1297	1297	
5°	1266	1277	1288	1280	1274	116
15°	844	863	875	862	860	229
25°	285	294	305	293	286	134
35°	50	52	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



TEST NUMBER: P225222

CATALOG NUMBER: LD2B10D010 EU2B10FL409030D2W 2LBDSQLC*MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1297.0	1297.0	1297.0	1297.0	1297.0
2.5°	1283.3	1296.3	1305.0	1297.8	1289.8
5°	1266.5	1276.7	1288.3	1279.6	1274.5
7.5°	1207.0	1222.3	1231.0	1226.7	1218.7
10°	1114.2	1125.8	1138.2	1133.8	1126.5
12.5°	991.7	1007.6	1019.2	1009.0	1010.5
15°	844.4	863.2	874.8	861.8	859.6
17.5°	688.4	702.9	710.9	702.9	697.1
20°	541.8	550.6	553.5	549.8	544.8
22.5°	400.4	409.8	418.6	409.8	403.3
25°	285.1	294.5	304.7	293.1	286.5
27.5°	192.2	198.0	206.7	195.9	186.5
30°	122.6	129.1	135.6	127.6	117.5
32.5°	77.6	82.0	82.7	81.2	72.5
35°	50.0	52.2	51.5	50.8	45.7
37.5°	31.9	31.9	32.6	31.9	29.0
40°	19.6	21.0	20.3	19.6	18.1
42.5°	11.6	13.0	12.4	12.4	11.6
45°	7.3	8.7	8.0	8.0	8.0
47.5°	5.1	5.8	5.1	5.1	5.8
50°	2.9	3.6	3.6	3.6	3.6
52.5°	2.1	2.1	2.1	2.1	2.9
55°	1.5	1.5	1.5	1.5	2.1
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



Report Generated By E9808895 / USPTCWHP6082093





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







(END OF REPORT)