

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: P225268

Luminaire Tested: **LD2B20D010 EU2B20FL409027 2LBDSQLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225268
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: LD2B20D010 EU2B20FL409027 2LBDSQLC*MB
Description: 2000 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: 1254.9 lumens
Efficiency: N/A
Efficacy: 60.0 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

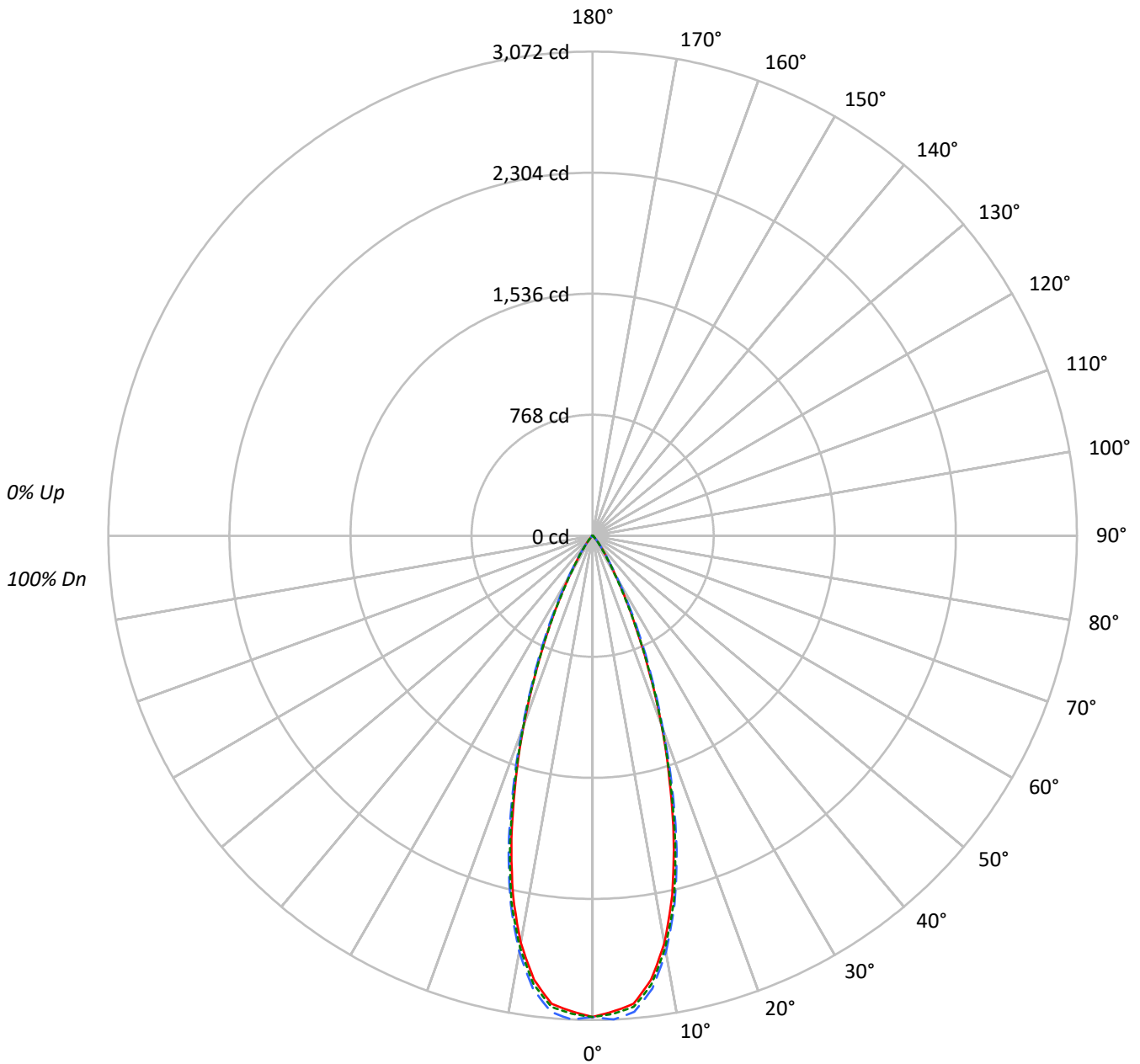
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225268

CATALOG NUMBER: LD2B20D010 EU2B20FL409027 2LBDSQLC*MB

Luminous Intensity Polar Plot





TEST NUMBER: P225268

CATALOG NUMBER: LD2B20D010 EU2B20FL409027 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°	1182567	1182567	1182567
5°	1159206	1179152	1166516
10°	1031564	1053747	1043010
15°	797048	825800	811404
20°	525767	537021	528570
25°	286821	306523	288274
30°	129082	142813	123715
35°	55703	57311	50880
40°	23310	24170	21591
45°	9367	10298	10298
50°	4098	5122	5122
55°	2296	2296	3444
60°	1317	1317	1317
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P225268

CATALOG NUMBER: LD2B20D010 EU2B20FL409027 2LBDSQLC*MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.0	22.0
10°-20°	549.3	43.8
20°-30°	324.5	25.9
30°-40°	84.5	6.7
40°-50°	16.7	1.3
50°-60°	3.6	0.3
60°-70°	0.3	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°	1149.8	91.6
0°-40°	1234.2	98.4
0°-60°	1254.6	100.0
0°-90°	1254.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1254.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3053	3053	3053	3053	3053	
5°	2981	3005	3033	3012	3000	273
15°	1988	2032	2059	2028	2023	539
25°	671	693	717	690	674	316
35°	118	123	121	120	108	82
45°	17	20	19	19	19	16
55°	3	3	3	3	5	4
65°	0	0	0	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P225268

CATALOG NUMBER: LD2B20D010 EU2B20FL409027 2LBDSQLC*MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3053.0	3053.0	3053.0	3053.0	3053.0
2.5°	3020.6	3051.3	3071.8	3054.8	3036.0
5°	2981.3	3005.2	3032.6	3012.1	3000.1
7.5°	2841.3	2877.2	2897.7	2887.4	2868.6
10°	2622.7	2650.1	2679.1	2668.9	2651.8
12.5°	2334.2	2371.7	2399.1	2375.2	2378.6
15°	1987.6	2031.9	2059.3	2028.5	2023.4
17.5°	1620.4	1654.6	1673.4	1654.6	1640.9
20°	1275.5	1296.0	1302.8	1294.3	1282.3
22.5°	942.6	964.7	985.2	964.7	949.4
25°	671.1	693.3	717.2	689.8	674.5
27.5°	452.5	466.2	486.6	461.0	438.8
30°	288.6	303.9	319.3	300.5	276.6
32.5°	182.7	192.9	194.7	191.2	170.8
35°	117.8	122.9	121.2	119.5	107.6
37.5°	75.1	75.1	76.8	75.1	68.3
40°	46.1	49.5	47.8	46.1	42.7
42.5°	27.3	30.7	29.0	29.0	27.3
45°	17.1	20.5	18.8	18.8	18.8
47.5°	12.0	13.7	12.0	12.0	13.7
50°	6.8	8.5	8.5	8.5	8.5
52.5°	5.1	5.1	5.1	5.1	6.8
55°	3.4	3.4	3.4	3.4	5.1
57.5°	3.4	3.4	1.7	1.7	3.4
60°	1.7	1.7	1.7	1.7	1.7
62.5°	1.7	0.0	0.0	0.0	1.7
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)