

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: P225203

Luminaire Tested: **LD2B20D010 EU2B20FL409050 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225203
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 EU2B20FL409050 2LBDSQC*MB
Description: 2000 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: 1548.1 lumens
Efficiency: N/A
Efficacy: 74.1 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

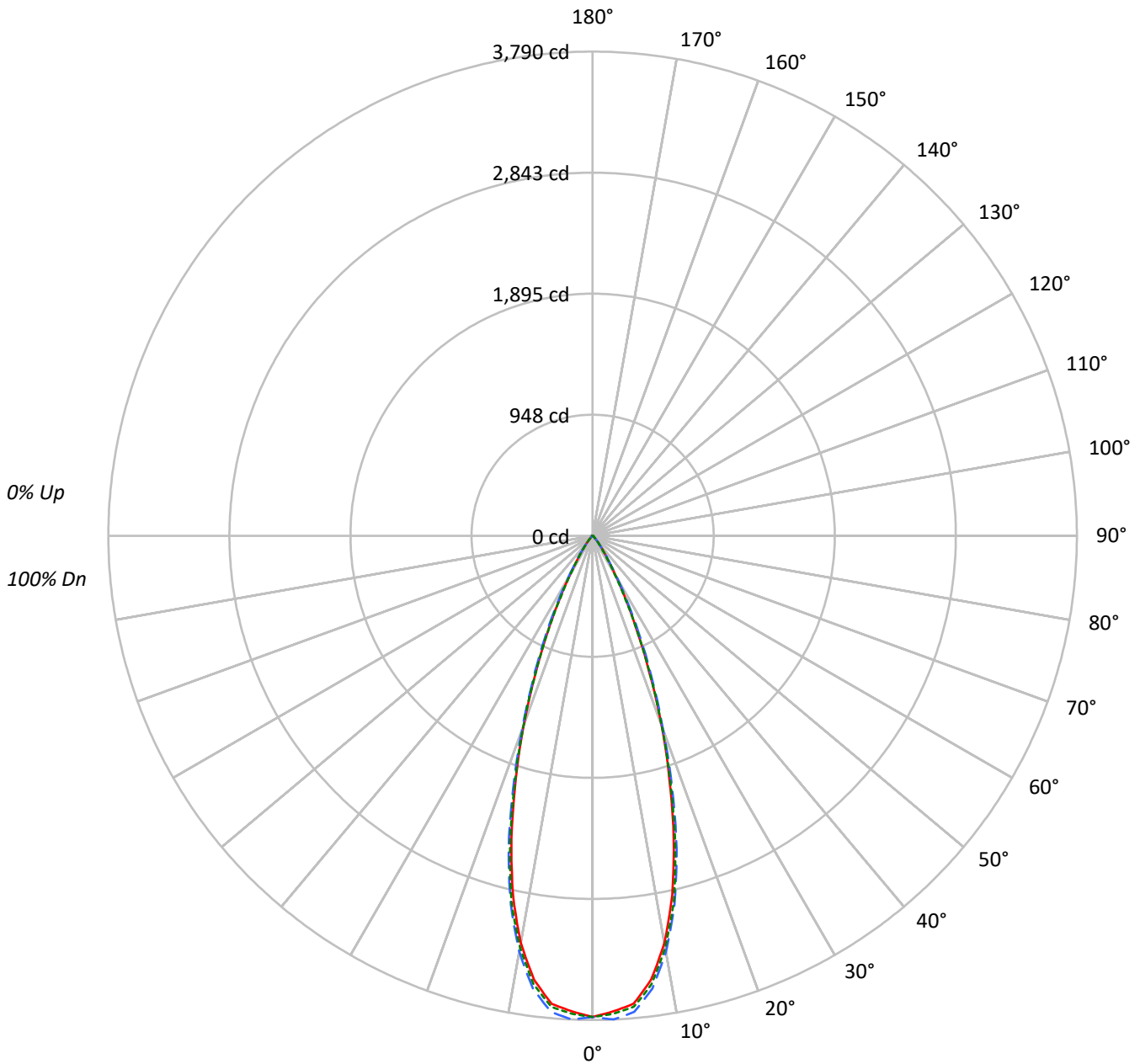
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225203

CATALOG NUMBER: LD2B20D010 EU2B20FL409050 2LBDSQC*MB

Luminous Intensity Polar Plot





TEST NUMBER: P225203

CATALOG NUMBER: LD2B20D010 EU2B20FL409050 2LBDSQC*MB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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				100				
1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96				96				
2	110	106	103	100	108	105	102	99	101	99	97	98	97	95	96	94	93	91				91				
3	106	101	97	94	104	99	96	93	97	94	91	95	92	90	92	90	89	87				87				
4	102	96	92	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83				83				
5	98	92	87	84	97	91	86	83	89	85	82	88	84	82	86	83	81	80				80				
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	77				77				
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73				73				
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71				71				
9	85	78	73	70	84	77	73	70	76	72	69	76	72	69	75	71	69	68				68				
10	82	75	70	67	82	74	70	67	74	70	67	73	69	67	72	69	66	65				65				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1458900	1458900	1458900
5°	1430062	1454635	1439082
10°	1272591	1299967	1286672
15°	983237	1018726	1001001
20°	648605	662496	652108
25°	353793	378111	355630
30°	159228	176179	152608
35°	68707	70740	62749
40°	28771	29833	26647
45°	11558	12709	12709
50°	5062	6327	6327
55°	2836	2836	4254
60°	1627	1627	1627
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P225203

CATALOG NUMBER: LD2B20D010 EU2B20FL409050 2LBDSQC*MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.4	22.0
10°-20°	677.7	43.8
20°-30°	400.3	25.9
30°-40°	104.2	6.7
40°-50°	20.6	1.3
50°-60°	4.5	0.3
60°-70°	0.4	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°	1418.4	91.6
0°-40°	1522.6	98.4
0°-60°	1547.7	100.0
0°-90°	1548.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1548.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3766	3766	3766	3766	3766	
5°	3678	3707	3741	3716	3701	337
15°	2452	2507	2540	2502	2496	665
25°	828	855	885	851	832	390
35°	145	152	150	148	133	102
45°	21	25	23	23	23	19
55°	4	4	4	4	6	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: P225203

CATALOG NUMBER: LD2B20D010 EU2B20FL409050 2LBDSQC*MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3766.4	3766.4	3766.4	3766.4	3766.4
2.5°	3726.3	3764.3	3789.5	3768.5	3745.3
5°	3677.9	3707.4	3741.1	3715.8	3701.1
7.5°	3505.2	3549.4	3574.7	3562.0	3538.9
10°	3235.5	3269.2	3305.1	3292.4	3271.3
12.5°	2879.5	2925.9	2959.6	2930.1	2934.3
15°	2451.9	2506.7	2540.4	2502.5	2496.2
17.5°	1999.0	2041.2	2064.3	2041.2	2024.3
20°	1573.5	1598.8	1607.2	1596.7	1582.0
22.5°	1162.8	1190.2	1215.4	1190.2	1171.2
25°	827.8	855.2	884.7	851.0	832.1
27.5°	558.2	575.1	600.3	568.7	541.4
30°	356.0	375.0	393.9	370.7	341.2
32.5°	225.4	238.0	240.1	235.9	210.6
35°	145.3	151.7	149.6	147.5	132.7
37.5°	92.7	92.7	94.8	92.7	84.3
40°	56.9	61.1	59.0	56.9	52.7
42.5°	33.7	37.9	35.8	35.8	33.7
45°	21.1	25.3	23.2	23.2	23.2
47.5°	14.7	16.9	14.7	14.7	16.9
50°	8.4	10.5	10.5	10.5	10.5
52.5°	6.3	6.3	6.3	6.3	8.4
55°	4.2	4.2	4.2	4.2	6.3
57.5°	4.2	4.2	2.1	2.1	4.2
60°	2.1	2.1	2.1	2.1	2.1
62.5°	2.1	0.0	0.0	0.0	2.1
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)