

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: P225263

Luminaire Tested: **LD2B20D010 EU2B20FL408030 2LBDSQLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225263
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 EU2B20FL408030 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: 1623.2 lumens
Efficiency: N/A
Efficacy: 77.7 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

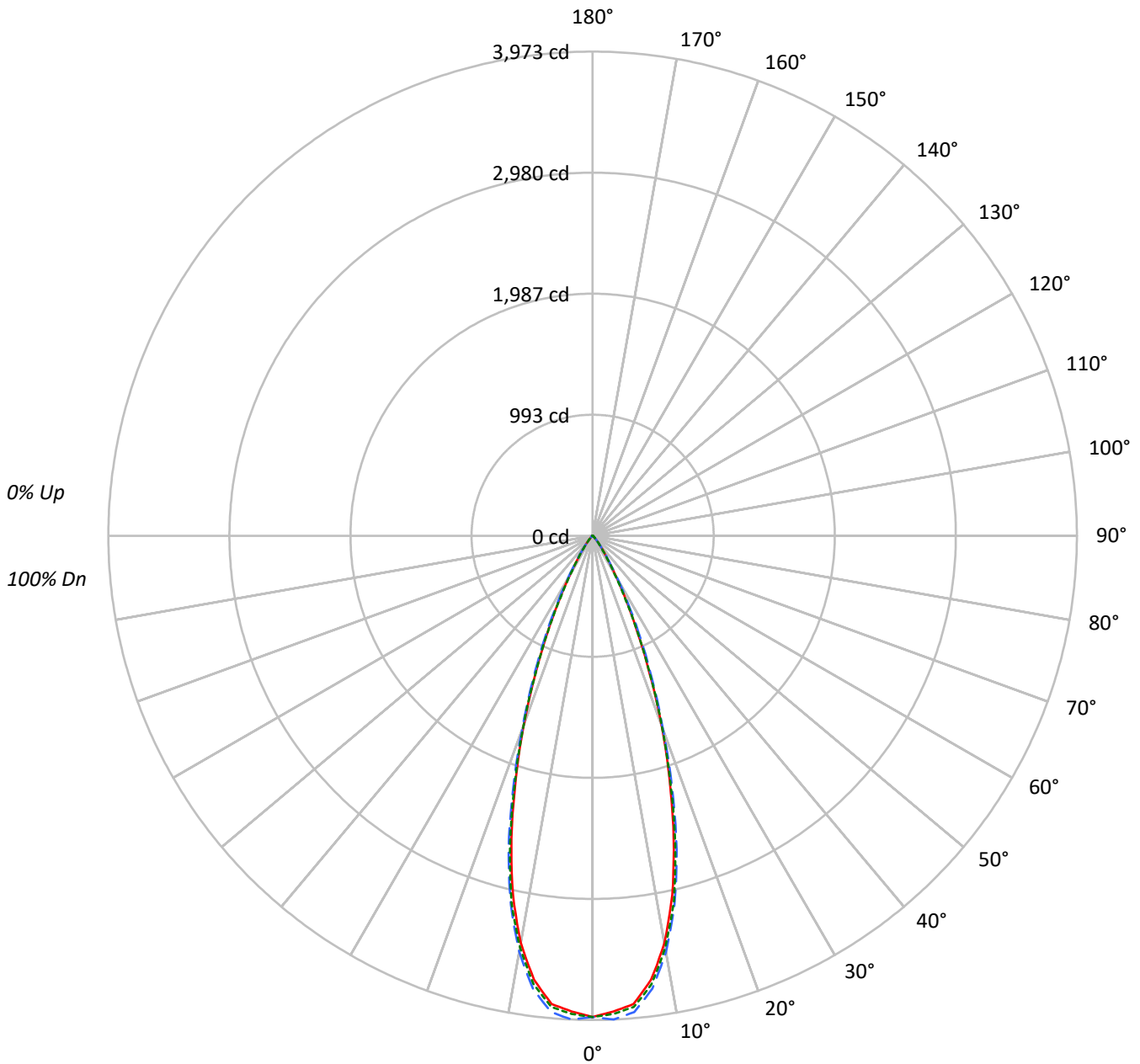
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225263

CATALOG NUMBER: LD2B20D010 EU2B20FL408030 2LBDSQLC*MB

Luminous Intensity Polar Plot





TEST NUMBER: P225263

CATALOG NUMBER: LD2B20D010 EU2B20FL408030 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°	1529668	1529668	1529668
5°	1499428	1525207	1508877
10°	1334343	1363016	1349092
15°	1030957	1068130	1049564
20°	680097	694648	683724
25°	370974	396446	372854
30°	166965	184722	160033
35°	72064	74145	65775
40°	30136	31249	27912
45°	12106	13311	13311
50°	5303	6629	6629
55°	2971	2971	4457
60°	1704	1704	1704
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P225263

CATALOG NUMBER: LD2B20D010 EU2B20FL408030 2LBDSQLC*MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.9	22.0
10°-20°	710.6	43.8
20°-30°	419.7	25.9
30°-40°	109.3	6.7
40°-50°	21.6	1.3
50°-60°	4.7	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°	1487.2	91.6
0°-40°	1596.5	98.4
0°-60°	1622.8	100.0
0°-90°	1623.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1623.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3949	3949	3949	3949	3949	
5°	3856	3887	3923	3896	3881	353
15°	2571	2628	2664	2624	2617	698
25°	868	897	928	892	872	409
35°	152	159	157	155	139	107
45°	22	26	24	24	24	20
55°	4	4	4	4	7	5
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: P225263

CATALOG NUMBER: LD2B20D010 EU2B20FL408030 2LBDSQLC*MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3949.1	3949.1	3949.1	3949.1	3949.1
2.5°	3907.1	3946.9	3973.4	3951.3	3927.0
5°	3856.3	3887.2	3922.6	3896.1	3880.6
7.5°	3675.2	3721.6	3748.1	3734.8	3710.5
10°	3392.5	3427.8	3465.4	3452.1	3430.0
12.5°	3019.2	3067.8	3103.2	3072.2	3076.7
15°	2570.9	2628.3	2663.6	2623.9	2617.3
17.5°	2096.0	2140.2	2164.5	2140.2	2122.5
20°	1649.9	1676.4	1685.2	1674.2	1658.7
22.5°	1219.2	1247.9	1274.4	1247.9	1228.0
25°	868.0	896.7	927.6	892.3	872.4
27.5°	585.3	603.0	629.5	596.3	567.6
30°	373.3	393.1	413.0	388.7	357.8
32.5°	236.3	249.6	251.8	247.4	220.9
35°	152.4	159.0	156.8	154.6	139.1
37.5°	97.2	97.2	99.4	97.2	88.3
40°	59.6	64.1	61.8	59.6	55.2
42.5°	35.3	39.8	37.5	37.5	35.3
45°	22.1	26.5	24.3	24.3	24.3
47.5°	15.5	17.7	15.5	15.5	17.7
50°	8.8	11.0	11.0	11.0	11.0
52.5°	6.6	6.6	6.6	6.6	8.8
55°	4.4	4.4	4.4	4.4	6.6
57.5°	4.4	4.4	2.2	2.2	4.4
60°	2.2	2.2	2.2	2.2	2.2
62.5°	2.2	0.0	0.0	0.0	2.2
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)