

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: P224993

Luminaire Tested: **LD2B20D010 EU2B20FL409727 2LBDL*LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224993
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (152)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B20D010 EU2B20FL409727 2LBDL*LI
Description: 2000 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
LENSED SPUN ROUND TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1221.0 lumens
Efficiency: N/A
Efficacy: 58.4 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.58
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

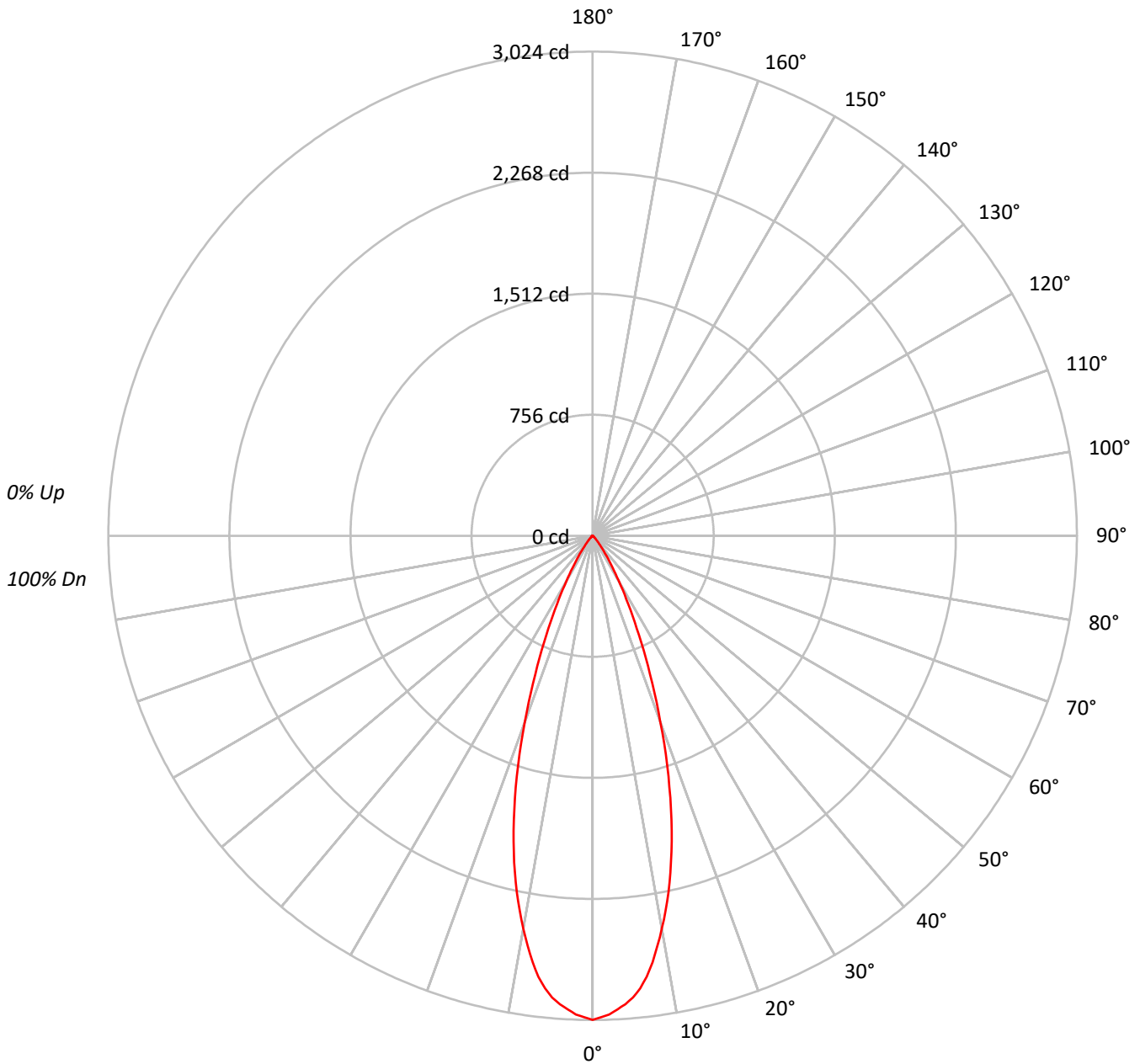
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P224993

CATALOG NUMBER: LD2B20D010 EU2B20FL409727 2LBDL*LI

Luminous Intensity Polar Plot





TEST NUMBER: P224993

CATALOG NUMBER: LD2B20D010 EU2B20FL409727 2LBDL*LI

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	100	100
1	114	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96	96	96	96
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91	91	91	91
3	106	101	96	93	104	99	95	92	97	94	91	94	92	90	92	90	88	87	87	87	87
4	102	96	91	88	100	95	90	87	93	89	86	91	88	85	89	86	84	83	83	83	83
5	98	91	86	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79	79	79	79
6	94	87	82	79	93	86	82	79	85	81	78	84	80	78	83	79	77	76	76	76	76
7	91	83	79	75	90	83	78	75	82	78	75	81	77	74	80	76	74	73	73	73	73
8	88	80	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	70	70	70	70
9	85	77	72	69	84	76	72	69	76	71	69	75	71	68	74	71	68	67	67	67	67
10	82	74	69	66	81	74	69	66	73	69	66	72	68	66	72	68	66	65	65	65	65

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1171257
5°	1125533
10°	979803
15°	765087
20°	508826
25°	291351
30°	144870
35°	66579
40°	26698
45°	12216
50°	5664
55°	3174
60°	1782
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P224993

CATALOG NUMBER: LD2B20D010 EU2B20FL409727 2LBDL*LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.5	21.6
10°-20°	517.4	42.4
20°-30°	320.2	26.2
30°-40°	95.8	7.8
40°-50°	19.2	1.6
50°-60°	4.7	0.4
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°	1101.0	90.2
0°-40°	1196.8	98.0
0°-60°	1220.7	100.0
0°-90°	1221.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1221.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3024	
5°	2895	263
15°	1908	517
25°	682	320
35°	141	96
45°	22	19
55°	5	5
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P224993

CATALOG NUMBER: LD2B20D010 EU2B20FL409727 2LBDL*LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	3023.8
1°	3007.4
2°	2992.1
3°	2961.6
4°	2933.4
5°	2894.7
6°	2841.9
7°	2775.0
8°	2689.4
9°	2592.0
10°	2491.1
11°	2386.7
12°	2275.2
13°	2159.0
14°	2034.6
15°	1907.9
17.5°	1573.5
20°	1234.4
22.5°	934.0
25°	681.7
27.5°	478.7
30°	323.9
32.5°	213.6
35°	140.8
37.5°	88.0
40°	52.8
42.5°	34.0
45°	22.3
47.5°	14.1
50°	9.4
52.5°	7.0
55°	4.7
57.5°	3.5
60°	2.3
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0



TEST NUMBER: P224993

CATALOG NUMBER: LD2B20D010 EU2B20FL409727 2LBDL*LI

CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)