

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: P222212

Luminaire Tested: **LD2B20D010 EU2B20NFL259730 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P222212
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (155)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B20D010 EU2B20NFL259730 2LBDSQC*MB
Description: 2000 Lumen, 2inch Portfolio LED Downlight
NARROW FLOOD OPTIC
SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1291.3 lumens
Efficiency: N/A
Efficacy: 61.8 lumens/watt
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.35
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

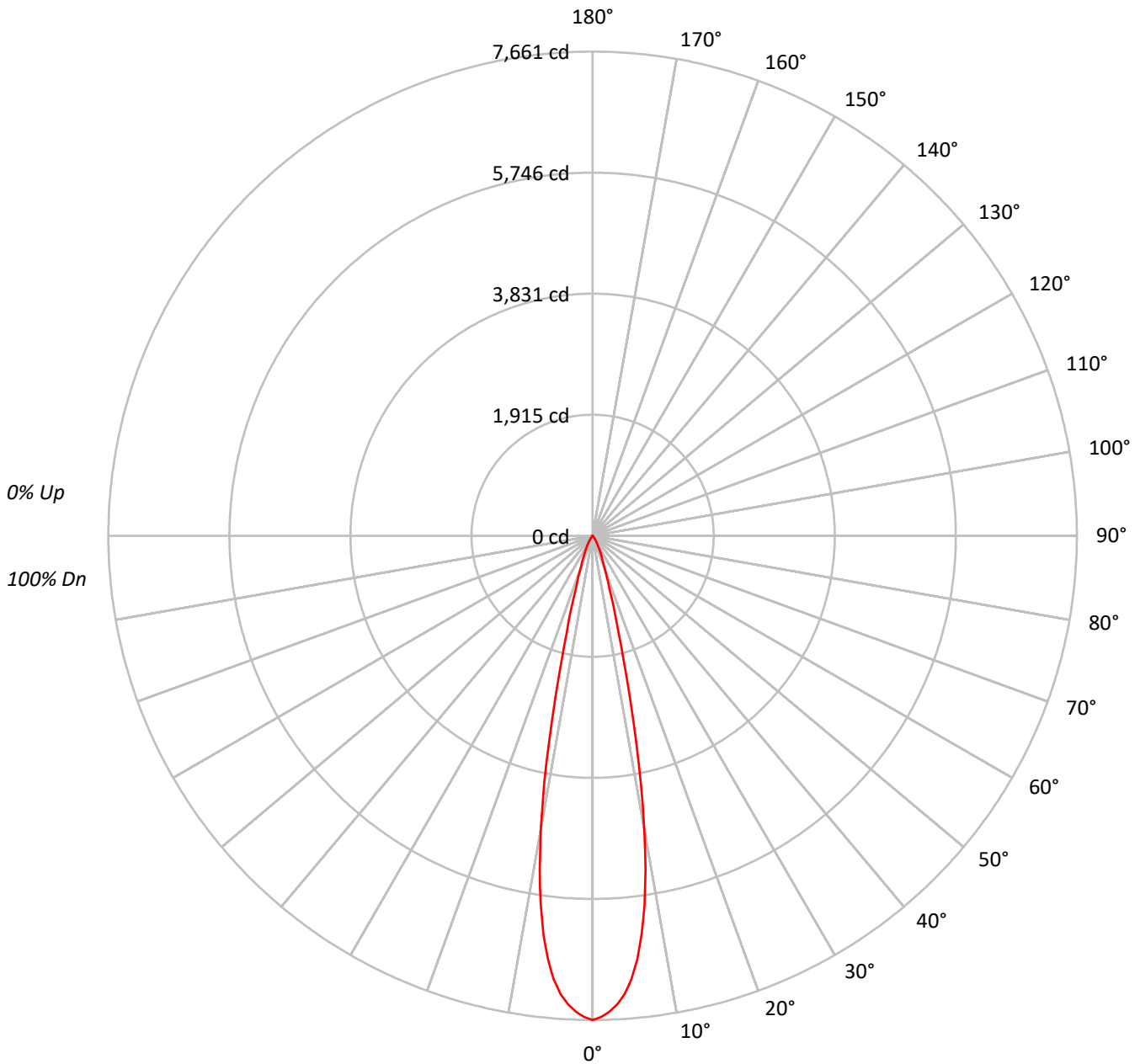
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P222212

CATALOG NUMBER: LD2B20D010 EU2B20NFL259730 2LBDSQC*MB

Luminous Intensity Polar Plot





TEST NUMBER: P222212

CATALOG NUMBER: LD2B20D010 EU2B20NFL259730 2LBDSQC*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				100															
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97				97															
2	112	109	106	104	110	107	104	102	104	102	100	101	99	98	98	97	96	95				95															
3	109	105	101	99	107	103	100	98	101	98	96	99	97	95	96	95	93	92				92															
4	106	101	97	95	104	100	97	94	98	95	93	96	94	92	95	93	91	90				90															
5	103	98	94	91	102	97	94	91	95	92	90	94	91	89	93	90	89	88				88															
6	101	95	91	89	99	94	91	88	93	90	88	92	89	87	91	88	87	86				86															
7	98	92	89	86	97	92	88	86	91	88	85	90	87	85	89	86	85	84				84															
8	96	90	86	84	95	90	86	84	89	86	83	88	85	83	87	85	83	82				82															
9	94	88	84	82	93	88	84	82	87	84	82	86	83	81	85	83	81	80				80															
10	92	86	82	80	91	86	82	80	85	82	80	84	82	80	84	81	79	79				79															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2967380
5°	2739859
10°	1854511
15°	630949
20°	231742
25°	122874
30°	63154
35°	29459
40°	9658
45°	4875
50°	2290
55°	878
60°	1007
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P222212

CATALOG NUMBER: LD2B20D010 EU2B20NFL259730 2LBDSQC*MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	599.4	46.4
10°-20°	504.0	39.0
20°-30°	138.3	10.7
30°-40°	40.3	3.1
40°-50°	7.5	0.6
50°-60°	1.7	0.1
60°-70°	0.2	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°	1241.7	96.2
0°-40°	1282.0	99.3
0°-60°	1291.2	100.0
0°-90°	1291.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1291.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7661	
5°	7046	599
15°	1573	504
25°	288	138
35°	62	40
45°	9	7
55°	1	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P222212

CATALOG NUMBER: LD2B20D010 EU2B20NFL259730 2LBDSQC*MB

CANDELA DISTRIBUTION (FULL):

0°	
0°	7660.8
1°	7616.3
2°	7537.4
3°	7424.2
4°	7269.0
5°	7046.5
6°	6742.5
7°	6362.2
8°	5897.9
9°	5349.7
10°	4715.0
11°	4019.3
12°	3295.6
13°	2604.9
14°	2016.0
15°	1573.4
17.5°	887.8
20°	562.2
22.5°	400.7
25°	287.5
27.5°	203.5
30°	141.2
32.5°	99.2
35°	62.3
37.5°	25.4
40°	19.1
42.5°	14.0
45°	8.9
47.5°	5.1
50°	3.8
52.5°	2.5
55°	1.3
57.5°	1.3
60°	1.3
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: P222212

CATALOG NUMBER: LD2B20D010 EU2B20NFL259730 2LBDSQC*MB

CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)