

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: P223168

Luminaire Tested: **LD2B20D010 EU2B20NFL258040 2LBD*MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P223168
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 EU2B20NFL258040 2LBD*MW
Description: 2000 Lumen, 2inch Portfolio LED Downlight
NARROW FLOOD OPTIC
SPUN ROUND TRIM WITH MATTE WHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1938.1 lumens
Efficiency: N/A
Efficacy: 92.7 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

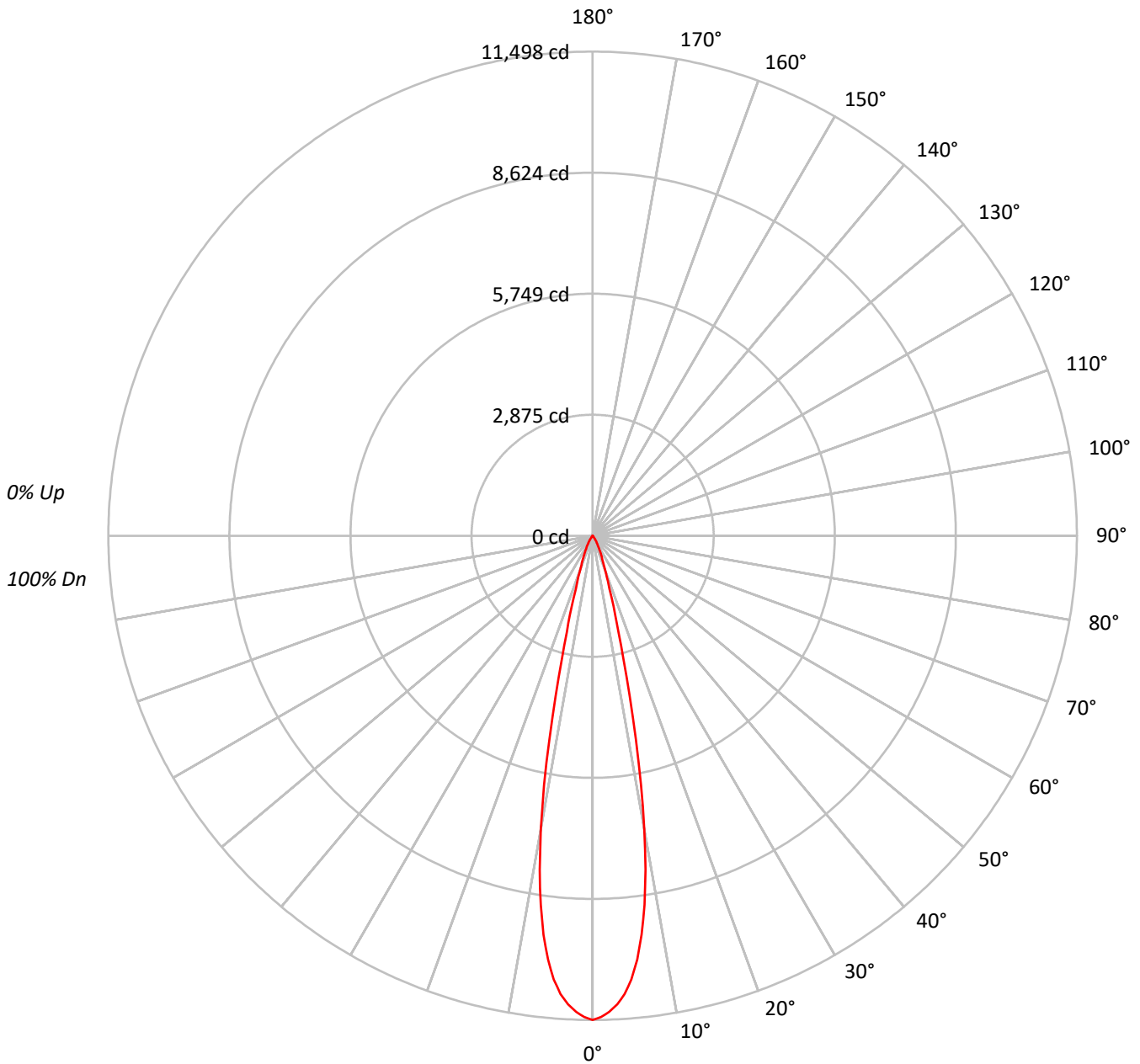
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P223168

CATALOG NUMBER: LD2B20D010 EU2B20NFL258040 2LBD*MW

Luminous Intensity Polar Plot





TEST NUMBER: P223168

CATALOG NUMBER: LD2B20D010 EU2B20NFL258040 2LBD*MW

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4453704
5°	4112219
10°	2783418
15°	946985
20°	347819
25°	184376
30°	94776
35°	44213
40°	14461
45°	7340
50°	3435
55°	1283
60°	1472
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P223168

CATALOG NUMBER: LD2B20D010 EU2B20NFL258040 2LBD*MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	899.6	46.4
10°-20°	756.4	39.0
20°-30°	207.6	10.7
30°-40°	60.5	3.1
40°-50°	11.2	0.6
50°-60°	2.5	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°	1863.6	96.2
0°-40°	1924.1	99.3
0°-60°	1937.8	100.0
0°-90°	1938.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1938.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11498	
5°	10576	900
15°	2362	756
25°	431	208
35°	94	61
45°	13	11
55°	2	3
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P223168

CATALOG NUMBER: LD2B20D010 EU2B20NFL258040 2LBD*MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	11498.0
1°	11431.2
2°	11312.8
3°	11142.9
4°	10910.0
5°	10576.0
6°	10119.7
7°	9548.9
8°	8852.1
9°	8029.3
10°	7076.7
11°	6032.5
12°	4946.3
13°	3909.7
14°	3025.8
15°	2361.5
17.5°	1332.5
20°	843.8
22.5°	601.3
25°	431.4
27.5°	305.4
30°	211.9
32.5°	148.9
35°	93.5
37.5°	38.2
40°	28.6
42.5°	21.0
45°	13.4
47.5°	7.6
50°	5.7
52.5°	3.8
55°	1.9
57.5°	1.9
60°	1.9
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: P223168

CATALOG NUMBER: LD2B20D010 EU2B20NFL258040 2LBD*MW

CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)