

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: P222431

Luminaire Tested: **LD2B20D010 EU2B20NFL259050 2LBDSQC\*MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P222431  
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 EU2B20NFL259050 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: 1533.5 lumens  
Efficiency: N/A  
Efficacy: 73.4 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

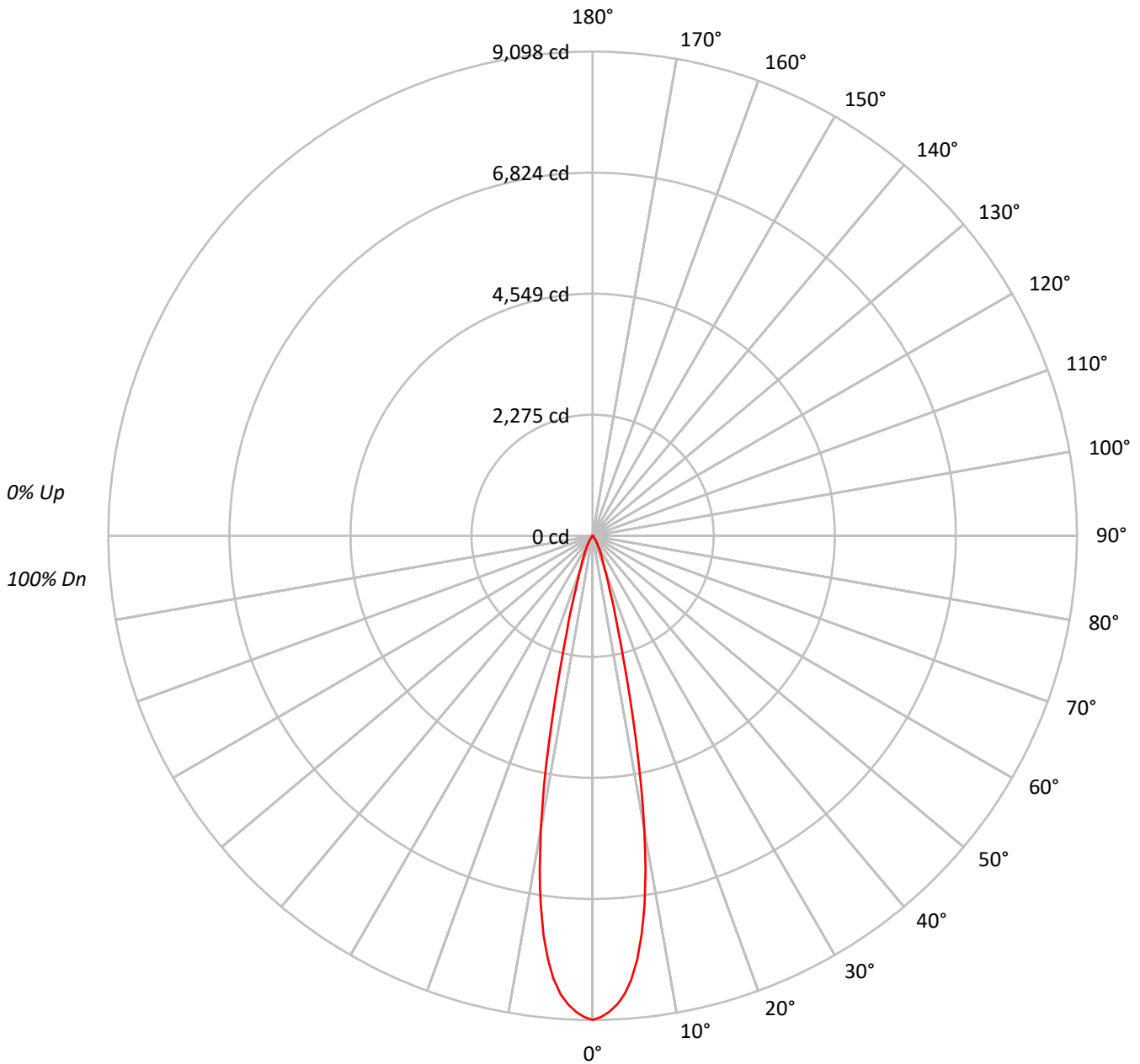
Input Watts (W): 20.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P222431

CATALOG NUMBER: LD2B20D010 EU2B20NFL259050 2LBDSQC\*MB

### Luminous Intensity Polar Plot





TEST NUMBER: P222431

CATALOG NUMBER: LD2B20D010 EU2B20NFL259050 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	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	94	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	86	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	78	77
10	92	86	82	80	91	86	82	80	85	82	80	84	82	80	84	81	79	78	77	76	75

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	3523958
5°	3253731
10°	2202364
15°	749287
20°	275188
25°	145911
30°	75007
35°	34992
40°	11478
45°	5807
50°	2712
55°	1013
60°	1162
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P222431

CATALOG NUMBER: LD2B20D010 EU2B20NFL259050 2LBDSQC\*MB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	711.8	46.4
10°-20°	598.5	39.0
20°-30°	164.3	10.7
30°-40°	47.9	3.1
40°-50°	8.9	0.6
50°-60°	2.0	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°	1474.6	96.2
0°-40°	1522.5	99.3
0°-60°	1533.3	100.0
0°-90°	1533.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1533.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9098	
5°	8368	712
15°	1868	598
25°	341	164
35°	74	48
45°	11	9
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P222431

CATALOG NUMBER: LD2B20D010 EU2B20NFL259050 2LBDSQC\*MB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	9097.7
1°	9044.8
2°	8951.2
3°	8816.7
4°	8632.4
5°	8368.1
6°	8007.1
7°	7555.5
8°	7004.1
9°	6353.1
10°	5599.4
11°	4773.1
12°	3913.7
13°	3093.5
14°	2394.1
15°	1868.5
17.5°	1054.3
20°	667.6
22.5°	475.8
25°	341.4
27.5°	241.7
30°	167.7
32.5°	117.8
35°	74.0
37.5°	30.2
40°	22.7
42.5°	16.6
45°	10.6
47.5°	6.0
50°	4.5
52.5°	3.0
55°	1.5
57.5°	1.5
60°	1.5
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: P222431

CATALOG NUMBER: LD2B20D010 EU2B20NFL259050 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)