

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: P#

Luminaire Tested: **LD2B20D010 EU2B20WFL558050 2LBDL\*LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29153)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B20D010 EU2B20WFL558050 2LBDL\*LI  
Description: 2000 Lumen, 2inch Portfolio LED Downlight  
WIDE FLOOD OPTIC  
LENSED SPUN ROUND TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

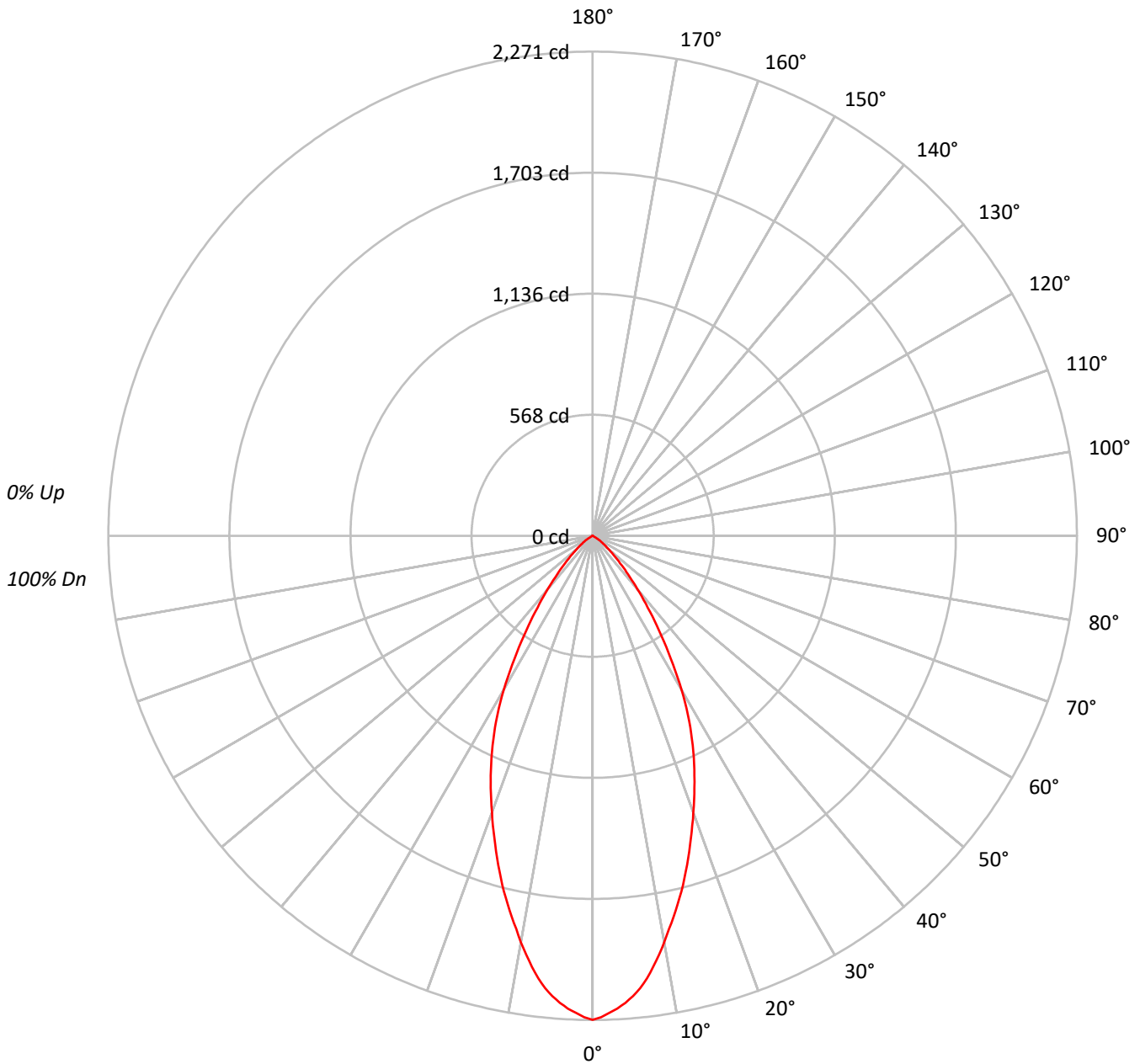
Lumens per Lamp: N/A  
Luminaire Lumens: 1708.0 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Spacing Criteria (0/90/45): 0.73 / 0.73 / 0.8  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

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: P#  
CATALOG NUMBER: LD2B20D010 EU2B20WFL558050 2LBDL\*LI

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD2B20D010 EU2B20WFL558050 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			
1	113	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93			
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80			
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75			
5	92	83	78	73	90	83	77	73	81	76	72	79	75	72	77	74	71	69			
6	87	78	72	68	86	77	72	68	76	71	67	74	70	67	73	69	66	65			
7	83	73	67	63	82	73	67	63	72	66	63	70	66	62	69	65	62	61			
8	79	69	63	59	78	69	63	59	68	62	59	66	62	58	66	61	58	57			
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55	53			
10	72	62	56	52	71	61	56	52	61	55	52	60	55	52	59	55	52	50			

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

	0°
0°	879508
5°	843091
10°	761392
15°	667080
20°	569173
25°	477436
30°	372396
35°	256717
40°	164891
45°	99753
50°	58513
55°	32820
60°	9374
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P#

CATALOG NUMBER: LD2B20D010 EU2B20WFL558050 2LBDL\*LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.5	11.7
10°-20°	462.3	27.1
20°-30°	508.1	29.7
30°-40°	343.8	20.1
40°-50°	147.4	8.6
50°-60°	45.0	2.6
60°-70°	1.9	0.1
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°	1169.9	68.5
0°-40°	1513.7	88.6
0°-60°	1706.1	99.9
0°-90°	1708.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1708.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2271	
5°	2168	199
15°	1664	462
25°	1117	508
35°	543	344
45°	182	147
55°	49	45
65°	0	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P#

CATALOG NUMBER: LD2B20D010 EU2B20WFL558050 2LBDL\*LI

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2270.6
1°	2258.5
2°	2239.4
3°	2220.3
4°	2196.0
5°	2168.3
6°	2133.6
7°	2092.0
8°	2041.7
9°	1989.6
10°	1935.8
11°	1878.6
12°	1826.6
13°	1772.8
14°	1719.0
15°	1663.5
17.5°	1519.5
20°	1380.8
22.5°	1248.9
25°	1117.1
27.5°	981.8
30°	832.6
32.5°	681.7
35°	542.9
37.5°	425.0
40°	326.1
42.5°	246.3
45°	182.1
47.5°	133.6
50°	97.1
52.5°	69.4
55°	48.6
57.5°	31.2
60°	12.1
62.5°	1.7
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: P#

CATALOG NUMBER: LD2B20D010 EU2B20WFL558050 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)