

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: P264477

Luminaire Tested: **LD2B20D010 EU2B2010SP159050 2LBD\*B**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P264477  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1805-787-1)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B20D010 EU2B2010SP159050 2LBD\*B  
Description: 2000 Lumen, 2inch Portfolio LED Downlight  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1538.0 lumens  
Efficiency: N/A  
Efficacy: 73.6 lumens/watt  
Spacing Criteria (0/90/45): 0.28 / 0.28 / 0.28  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

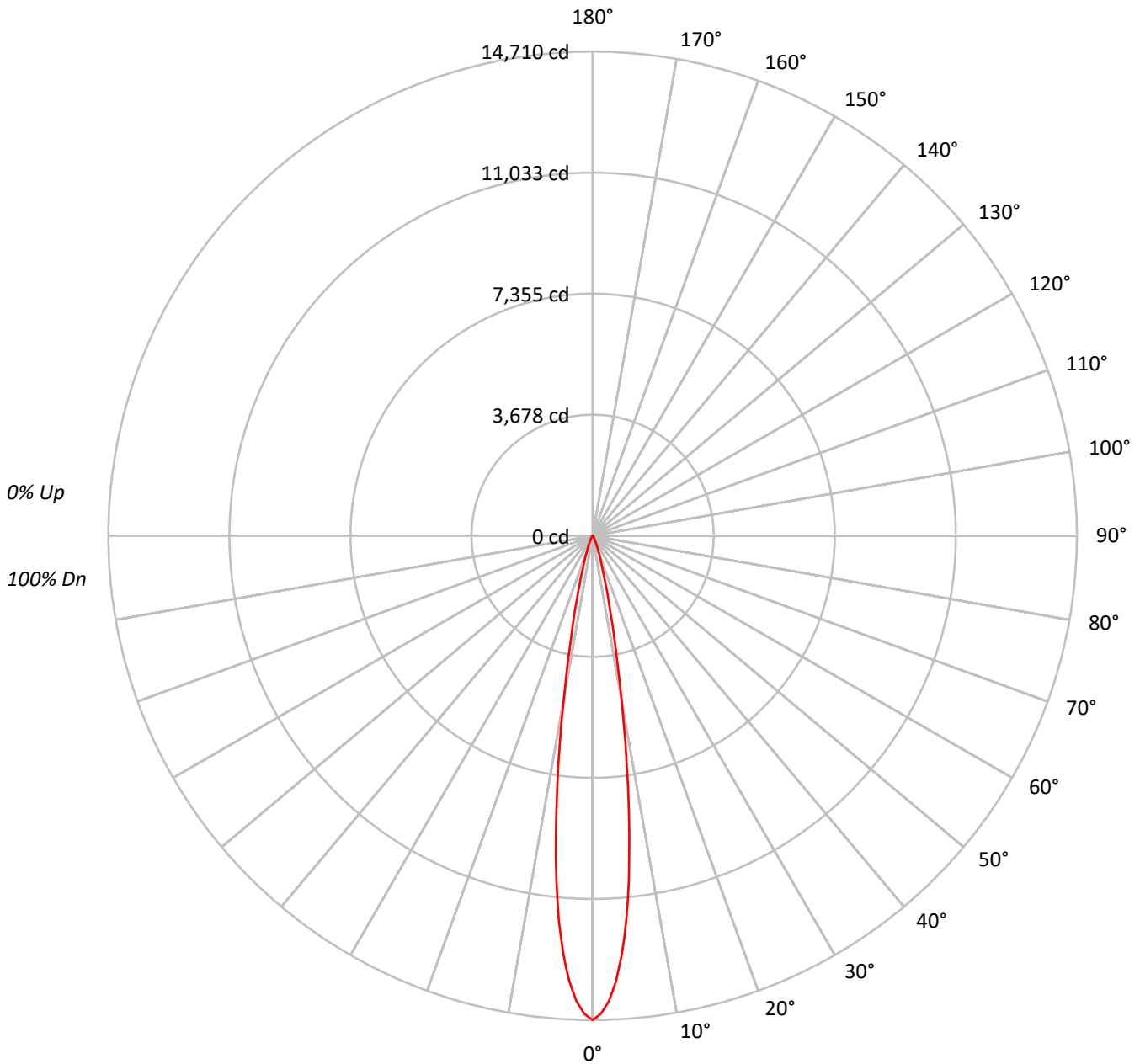
Input Watts (W): 20.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P264477

CATALOG NUMBER: LD2B20D010 EU2B2010SP159050 2LBD\*B

### Luminous Intensity Polar Plot





TEST NUMBER: P264477

CATALOG NUMBER: LD2B20D010 EU2B2010SP159050 2LBD\*B

**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	116	114	112	111	113	112	110	109	108	107	106	104	103	102	101	100	100	98			
2	113	109	107	105	111	108	106	104	105	103	101	102	101	99	99	98	97	96			
3	110	106	103	100	108	105	102	100	102	100	98	100	98	97	98	96	95	94			
4	107	103	99	97	106	102	99	96	100	97	95	98	96	94	96	95	93	92			
5	105	100	97	94	104	99	96	94	98	95	93	96	94	92	95	93	91	90			
6	103	98	94	92	102	97	94	91	96	93	91	95	92	90	93	91	90	89			
7	101	95	92	90	100	95	92	89	94	91	89	93	90	89	92	90	88	87			
8	99	93	90	88	98	93	90	88	92	89	87	91	89	87	91	88	87	86			
9	97	92	88	86	96	91	88	86	91	88	86	90	87	86	89	87	85	85			
10	95	90	87	85	95	90	87	85	89	86	85	89	86	84	88	86	84	83			

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

	0°
0°	7257204
5°	5817015
10°	2538879
15°	786783
20°	274273
25°	121121
30°	54861
35°	28488
40°	16294
45°	7675
50°	4835
55°	2752
60°	1579
65°	1868
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P264477

CATALOG NUMBER: LD2B20D010 EU2B2010SP159050 2LBD\*B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	892.0	58.0
10°-20°	488.5	31.8
20°-30°	111.3	7.2
30°-40°	32.0	2.1
40°-50°	9.9	0.6
50°-60°	3.0	0.2
60°-70°	1.4	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°	1491.8	97.0
0°-40°	1523.8	99.1
0°-60°	1536.6	99.9
0°-90°	1538.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1538.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	14710	
5°	11746	892
15°	1540	488
25°	222	111
35°	47	32
45°	11	10
55°	3	3
65°	2	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P264477

CATALOG NUMBER: LD2B20D010 EU2B2010SP159050 2LBD\*B

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	14709.7
1°	14526.7
2°	14146.3
3°	13556.0
4°	12744.8
5°	11745.7
6°	10520.9
7°	9152.5
8°	7724.2
9°	6341.6
10°	5067.9
11°	3989.9
12°	3140.8
13°	2471.6
14°	1952.4
15°	1540.4
16°	1215.3
17°	967.5
18°	778.1
19°	632.9
20°	522.4
22.5°	337.8
25°	222.5
26°	187.8
27°	159.4
28°	134.2
29°	112.1
30°	96.3
32.5°	66.3
35°	47.3
37.5°	34.7
40°	25.3
42.5°	17.4
45°	11.0
47.5°	7.9
50°	6.3
52.5°	4.7
55°	3.2
57.5°	1.6
60°	1.6
62.5°	1.6
65°	1.6
67.5°	1.6



TEST NUMBER: P264477

CATALOG NUMBER: LD2B20D010 EU2B2010SP159050 2LBD\*B

**CANDELA DISTRIBUTION (continued):**

	0°
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







70°		0.0
72.5°		0.0



(END OF REPORT)