

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: P264576

Luminaire Tested: **LD2B20D010 EU2B2010SP159730 2LBD\*H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P264576  
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 EU2B2010SP159730 2LBD\*H  
Description: 2000 Lumen, 2inch Portfolio LED Downlight  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1236.0 lumens  
Efficiency: N/A  
Efficacy: 59.1 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

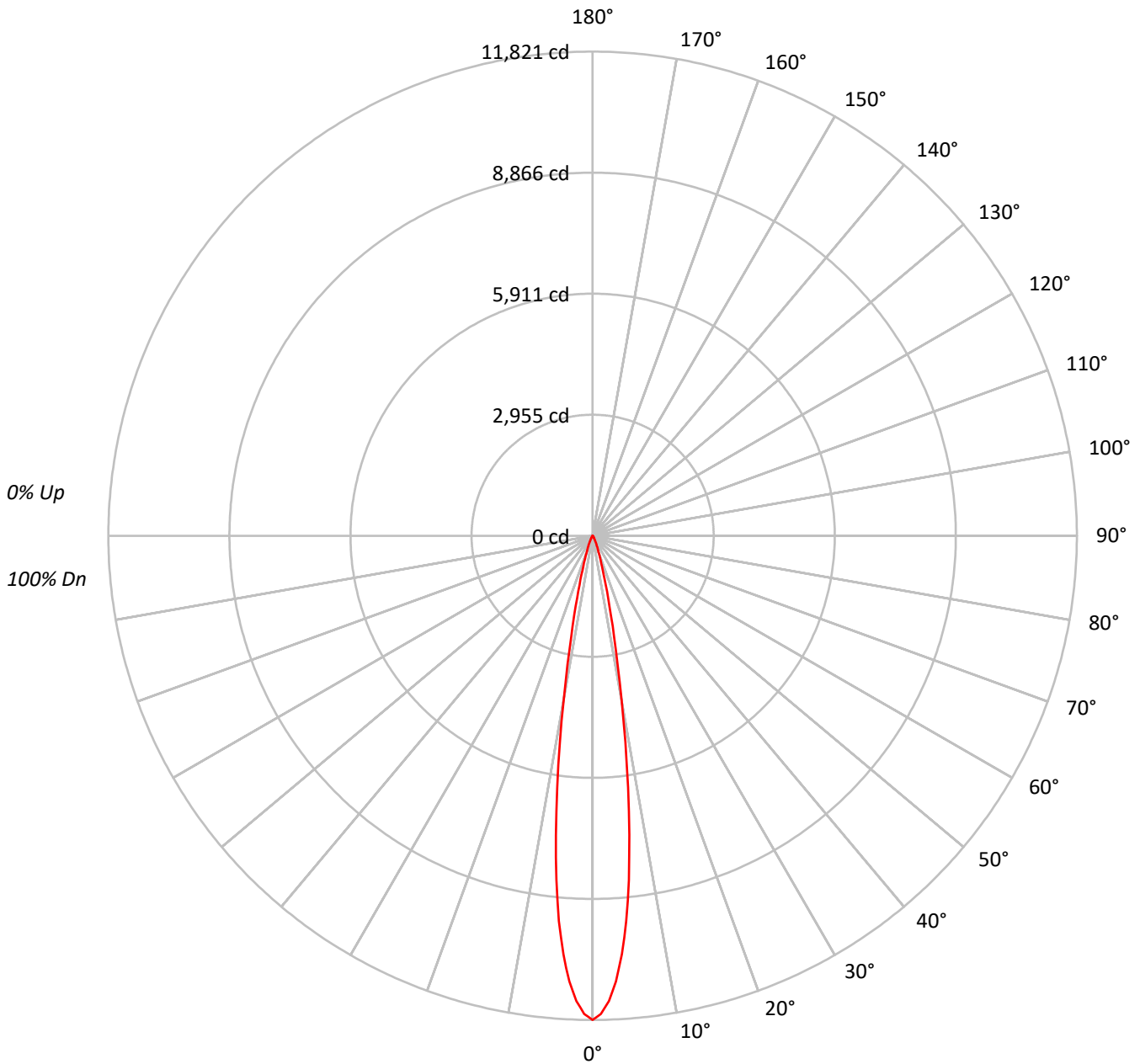
Input Watts (W): 20.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	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	98	97	96	96	95	94	94	93	92	92	91	90																
2	113	109	107	105	111	108	106	104	105	103	101	102	101	99	99	98	97	96	96	95	94	94	93	92	92	91	90	89	89	88																
3	110	106	103	100	108	105	102	100	102	100	98	100	98	97	98	96	94	94	93	92	92	91	90	90	89	88	87	87	86	85																
4	107	103	99	97	106	102	99	96	100	97	95	98	96	94	96	94	92	92	91	90	90	89	88	87	87	86	85	85	84	83																
5	105	100	97	94	104	99	96	94	98	95	93	96	94	92	95	93	91	91	90	89	88	87	86	85	85	84	83	82	81	80																
6	103	98	94	92	102	97	94	91	96	93	91	95	92	90	93	91	90	89	88	87	86	85	84	83	82	81	80	79	78	77																
7	101	95	92	90	100	95	92	89	94	91	89	93	90	89	92	90	88	87	86	85	84	83	82	81	80	79	78	77	76	75																
8	99	93	90	88	98	93	90	88	92	89	87	91	89	87	91	88	87	86	85	84	83	82	81	80	79	78	77	76	75	74																
9	97	92	88	86	96	91	88	86	91	88	86	90	87	86	89	87	85	84	83	82	81	80	79	78	77	76	75	74	73	72																
10	95	90	87	85	95	90	87	85	89	86	85	89	86	84	88	86	84	83	82	81	80	79	78	77	76	75	74	73	72	71																

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

	0°
0°	5832178
5°	4674779
10°	2040362
15°	632277
20°	220405
25°	97332
30°	44094
35°	22947
40°	13074
45°	6210
50°	3914
55°	2150
60°	1283
65°	1518
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	716.8	58.0
10°-20°	392.6	31.8
20°-30°	89.5	7.2
30°-40°	25.7	2.1
40°-50°	8.0	0.6
50°-60°	2.4	0.2
60°-70°	1.1	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°	1198.8	97.0
0°-40°	1224.6	99.1
0°-60°	1234.9	99.9
0°-90°	1236.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1236.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	11821	
5°	9439	717
15°	1238	393
25°	179	89
35°	38	26
45°	9	8
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	11821.3
1°	11674.2
2°	11368.5
3°	10894.2
4°	10242.2
5°	9439.3
6°	8455.1
7°	7355.4
8°	6207.5
9°	5096.4
10°	4072.8
11°	3206.5
12°	2524.1
13°	1986.3
14°	1569.0
15°	1237.9
16°	976.7
17°	777.5
18°	625.3
19°	508.6
20°	419.8
22.5°	271.4
25°	178.8
26°	150.9
27°	128.1
28°	107.8
29°	90.1
30°	77.4
32.5°	53.3
35°	38.1
37.5°	27.9
40°	20.3
42.5°	14.0
45°	8.9
47.5°	6.3
50°	5.1
52.5°	3.8
55°	2.5
57.5°	1.3
60°	1.3
62.5°	1.3
65°	1.3
67.5°	1.3



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**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



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— 0°-180°







70°		0.0
72.5°		0.0



(END OF REPORT)