

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: P264535

Luminaire Tested: **LD2B20D010 EU2B2010SP159727 2LBSQC\*MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P264535  
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 EU2B2010SP159727 2LBSQC\*MMS  
Description: 2000 Lumen, 2inch Portfolio LED Downlight  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1268.0 lumens  
Efficiency: N/A  
Efficacy: 60.7 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

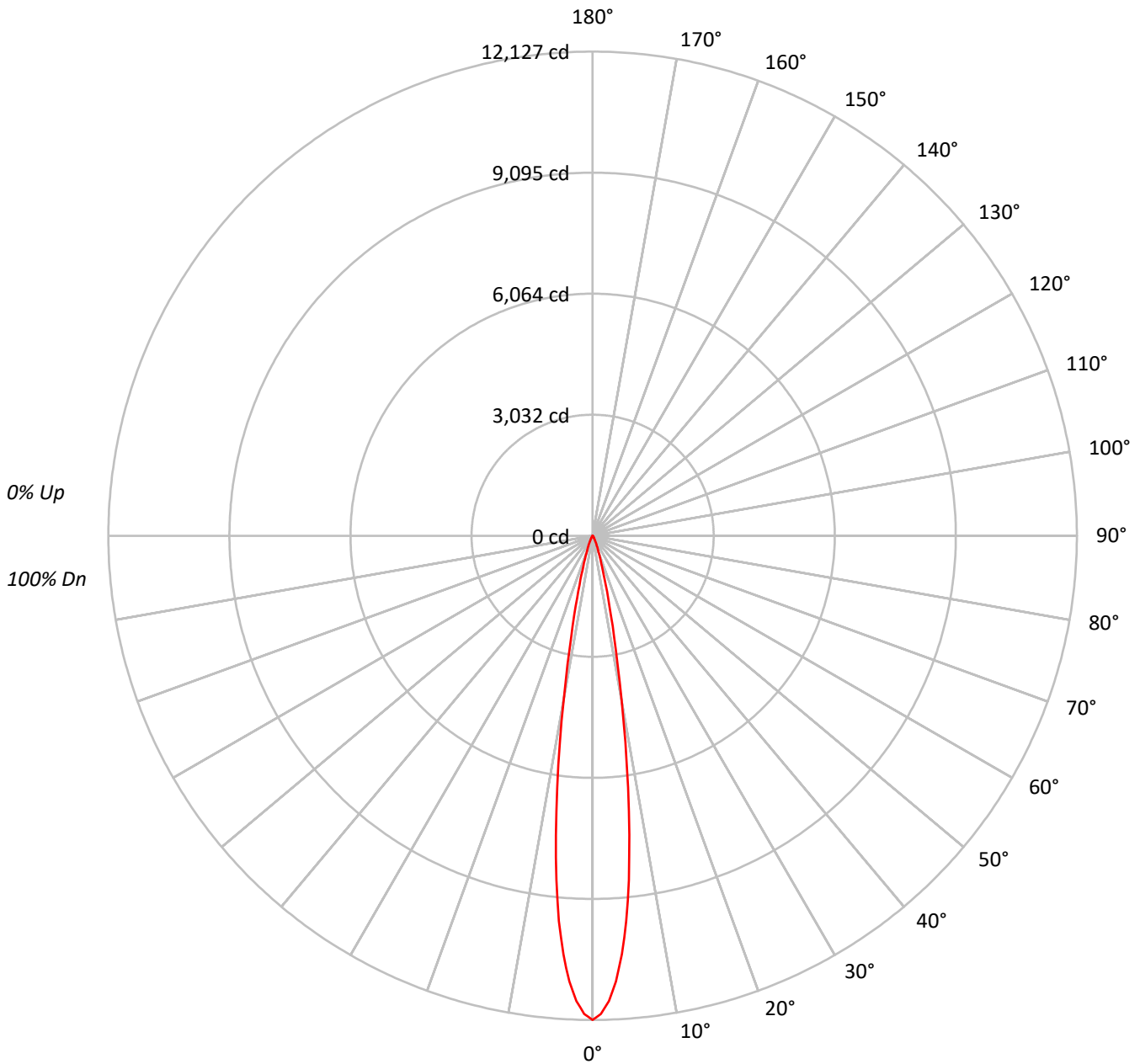
Input Watts (W): 20.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									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	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	96	94	92	90	88	86	84	82	80																			
2	113	109	107	105	111	108	106	104	105	103	101	102	101	99	99	98	97	96	94	92	90	88	86	84	82	80	78																			
3	110	106	103	100	108	105	102	100	102	100	98	100	98	97	98	96	95	94	92	90	88	86	84	82	80	78	76																			
4	107	103	99	97	106	102	99	96	100	97	95	98	96	94	96	95	93	92	90	88	86	84	82	80	78	76	74																			
5	105	100	97	94	104	99	96	94	98	95	93	96	94	92	95	93	91	90	88	86	84	82	80	78	76	74	72																			
6	103	98	94	92	102	97	94	91	96	93	91	95	92	90	93	91	90	89	87	85	83	81	79	77	75	73	71																			
7	101	95	92	90	100	95	92	89	94	91	89	93	90	89	92	90	88	87	85	83	81	79	77	75	73	71	69																			
8	99	93	90	88	98	93	90	88	92	89	87	91	89	87	91	88	87	86	84	82	80	78	76	74	72	70	68																			
9	97	92	88	86	96	91	88	86	91	88	86	90	87	86	89	87	85	84	82	80	78	76	74	72	70	68	66																			
10	95	90	87	85	95	90	87	85	89	86	85	89	86	84	88	86	84	83	81	79	77	75	73	71	69	67	65																			

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

	0°
0°	5983196
5°	4795817
10°	2093164
15°	648672
20°	226128
25°	99891
30°	45233
35°	23489
40°	13396
45°	6349
50°	3991
55°	2236
60°	1283
65°	1518
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	735.4	58.0
10°-20°	402.7	31.8
20°-30°	91.8	7.2
30°-40°	26.4	2.1
40°-50°	8.1	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°	1229.9	97.0
0°-40°	1256.3	99.1
0°-60°	1266.9	99.9
0°-90°	1268.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1268.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	12127	
5°	9684	735
15°	1270	403
25°	184	92
35°	39	26
45°	9	8
55°	3	2
65°	1	1
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	12127.4
1°	11976.5
2°	11662.9
3°	11176.2
4°	10507.4
5°	9683.7
6°	8674.0
7°	7545.8
8°	6368.2
9°	5228.3
10°	4178.2
11°	3289.5
12°	2589.4
13°	2037.7
14°	1609.6
15°	1270.0
16°	1001.9
17°	797.7
18°	641.5
19°	521.8
20°	430.7
22.5°	278.5
25°	183.5
26°	154.8
27°	131.4
28°	110.6
29°	92.4
30°	79.4
32.5°	54.7
35°	39.0
37.5°	28.6
40°	20.8
42.5°	14.3
45°	9.1
47.5°	6.5
50°	5.2
52.5°	3.9
55°	2.6
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)