

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: P264582

Luminaire Tested: **LD2B20D010 EU2B2010SP159730 2LBDC\*MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P264582  
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 2LBDC\*MB  
Description: 2000 Lumen, 2inch Portfolio LED Downlight  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1237.0 lumens  
Efficiency: N/A  
Efficacy: 59.2 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

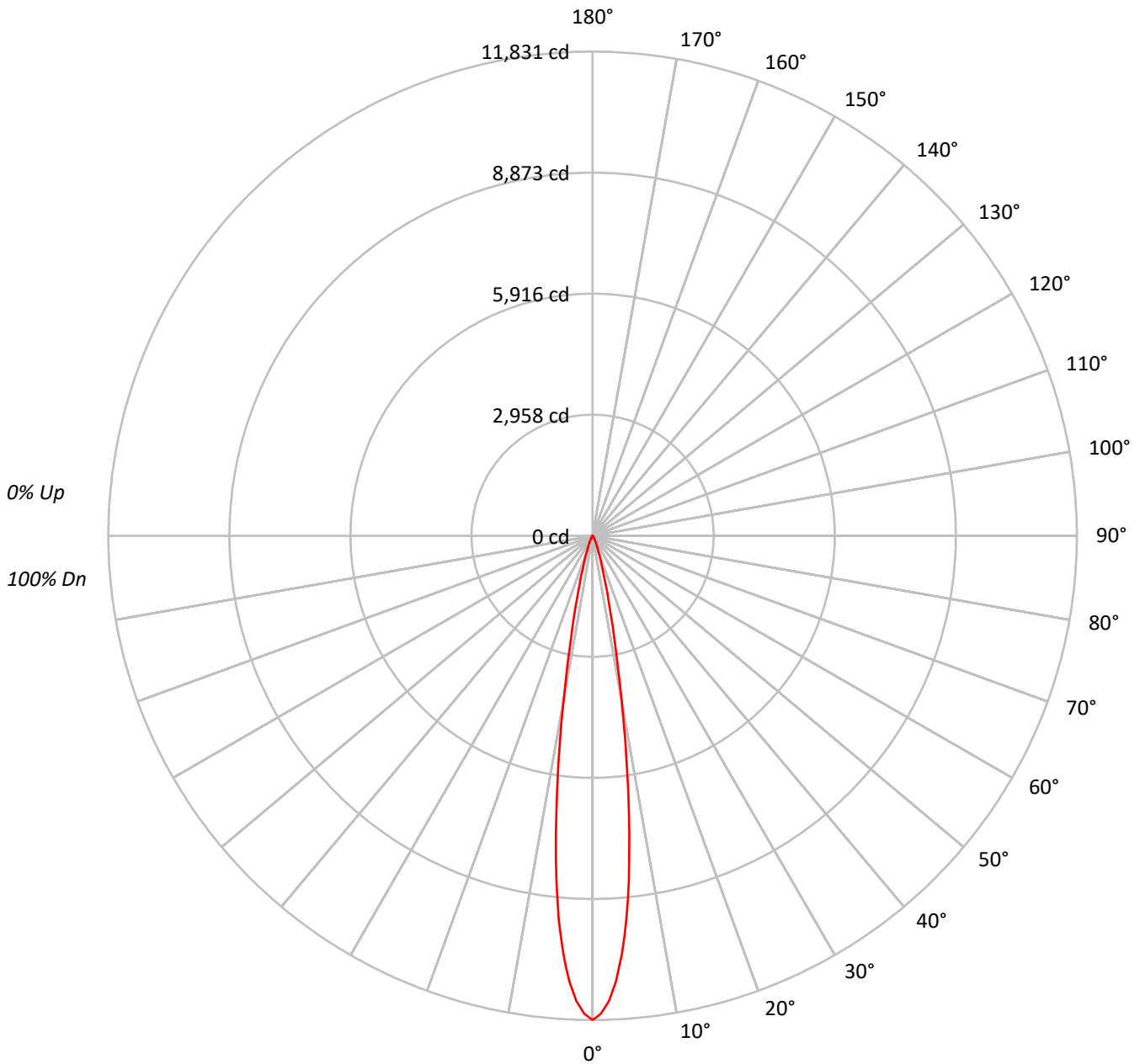
Input Watts (W): 20.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P264582

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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	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	93	91	90	89	87	86	85	84	83																						
2	113	109	107	105	111	108	106	104	105	103	101	102	101	99	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83																							
3	110	106	103	100	108	105	102	100	102	100	98	100	98	97	98	96	94	92	91	90	89	88	87	86	85	84	83	82	81	80	79																							
4	107	103	99	97	106	102	99	96	100	97	95	98	96	94	95	93	91	90	89	88	87	86	85	84	83	82	81	80	79	78	77																							
5	105	100	97	94	104	99	96	94	98	95	93	96	94	92	93	91	90	89	88	87	86	85	84	83	82	81	80	79	78	77	76																							
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	76																							
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	74																							
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	73																							
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	71																							
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	70																							

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

	0°
0°	5836914
5°	4678592
10°	2042015
15°	632788
20°	220615
25°	97441
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°	717.4	58.0
10°-20°	392.9	31.8
20°-30°	89.6	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°	1199.8	97.0
0°-40°	1225.6	99.1
0°-60°	1235.9	99.9
0°-90°	1237.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1237.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	11831	
5°	9447	717
15°	1239	393
25°	179	90
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°	11830.9
1°	11683.7
2°	11377.7
3°	10903.0
4°	10250.5
5°	9447.0
6°	8461.9
7°	7361.3
8°	6212.5
9°	5100.5
10°	4076.1
11°	3209.1
12°	2526.1
13°	1987.9
14°	1570.3
15°	1238.9
16°	977.4
17°	778.1
18°	625.8
19°	509.0
20°	420.2
22.5°	271.7
25°	179.0
26°	151.1
27°	128.2
28°	107.9
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



TEST NUMBER: P264582

CATALOG NUMBER: LD2B20D010 EU2B2010SP159730 2LBDC\*MB

**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)