

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: P264116

Luminaire Tested: **LD2B20D010 EU2B2010SP158040 2LBDC\*MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P264116  
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 EU2B2010SP158040 2LBDC\*MMS  
Description: 2000 Lumen, 2inch Portfolio LED Downlight  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1758.0 lumens  
Efficiency: N/A  
Efficacy: 84.1 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

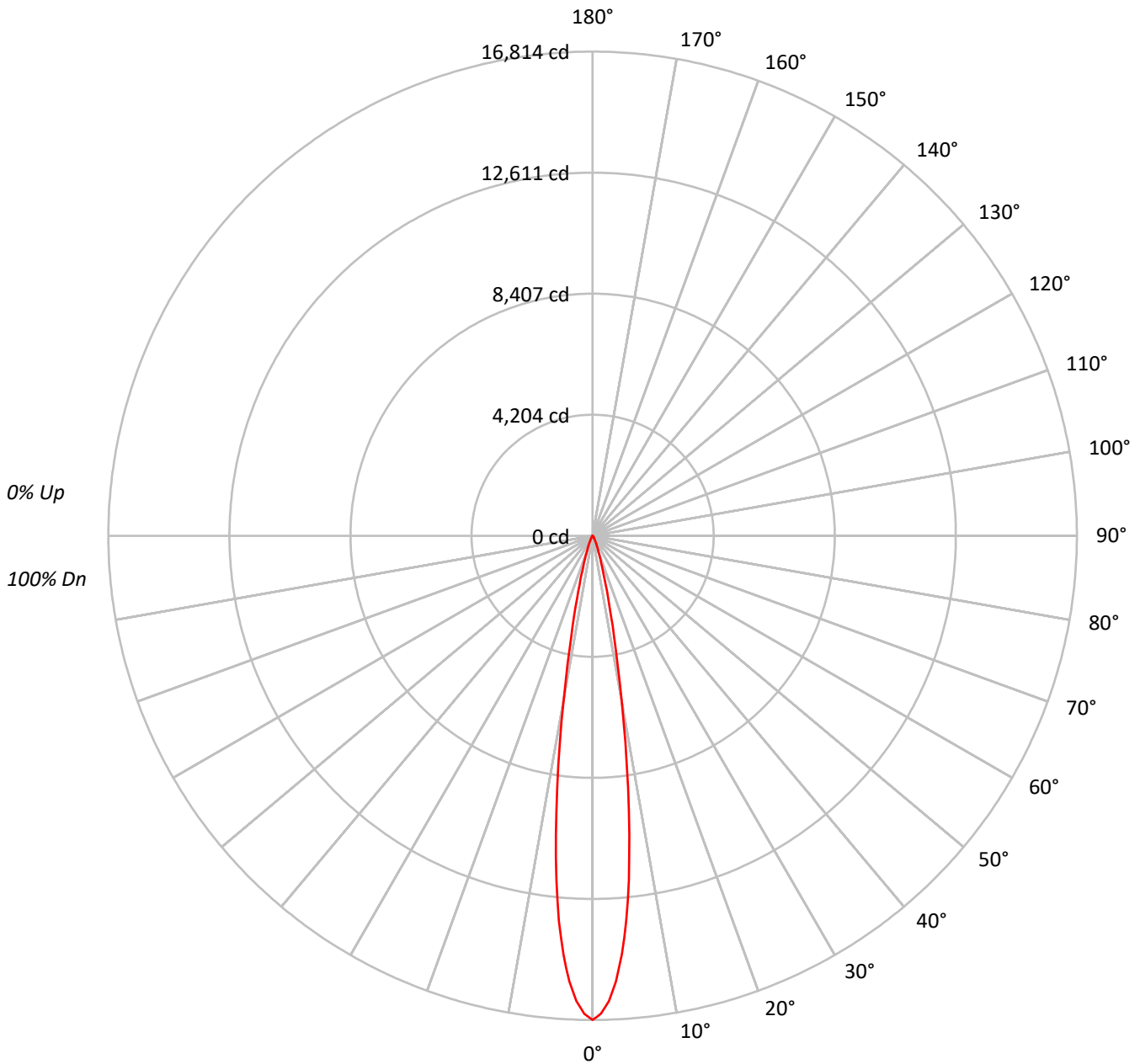
Input Watts (W): 20.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P264116

CATALOG NUMBER: LD2B20D010 EU2B2010SP158040 2LBDC\*MMS

### Luminous Intensity Polar Plot





TEST NUMBER: P264116

CATALOG NUMBER: LD2B20D010 EU2B2010SP158040 2LBDC\*MMS

**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			100
1	116	114	112	111	113	112	110	109	108	107	106	104	103	102	101	100	100	98			98
2	113	109	107	105	111	108	106	104	105	103	101	102	101	99	99	98	97	96			96
3	110	106	103	100	108	105	102	100	102	100	98	100	98	97	98	96	95	94			94
4	107	103	99	97	106	102	99	96	100	97	95	98	96	94	96	95	93	92			92
5	105	100	97	94	104	99	96	94	98	95	93	96	94	92	95	93	91	90			90
6	103	98	94	92	102	97	94	91	96	93	91	95	92	90	93	91	90	89			89
7	101	95	92	90	100	95	92	89	94	91	89	93	90	89	92	90	88	87			87
8	99	93	90	88	98	93	90	88	92	89	87	91	89	87	91	88	87	86			86
9	97	92	88	86	96	91	88	86	91	88	86	90	87	86	89	87	85	85			85
10	95	90	87	85	95	90	87	85	89	86	85	89	86	84	88	86	84	83			83

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

	0°
0°	8295336
5°	6649078
10°	2902035
15°	899356
20°	313492
25°	138486
30°	62665
35°	32584
40°	18613
45°	8791
50°	5526
55°	3097
60°	1776
65°	2101
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P264116

CATALOG NUMBER: LD2B20D010 EU2B2010SP158040 2LBDC\*MMS

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1019.5	58.0
10°-20°	558.4	31.8
20°-30°	127.3	7.2
30°-40°	36.6	2.1
40°-50°	11.3	0.6
50°-60°	3.4	0.2
60°-70°	1.6	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°	1705.2	97.0
0°-40°	1741.8	99.1
0°-60°	1756.4	99.9
0°-90°	1758.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1758.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	16814	
5°	13426	###
15°	1761	558
25°	254	127
35°	54	37
45°	13	11
55°	4	3
65°	2	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P264116

CATALOG NUMBER: LD2B20D010 EU2B2010SP158040 2LBDC\*MMS

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	16813.9
1°	16604.6
2°	16169.8
3°	15495.1
4°	14567.8
5°	13425.8
6°	12025.9
7°	10461.8
8°	8829.1
9°	7248.7
10°	5792.8
11°	4560.7
12°	3590.1
13°	2825.2
14°	2231.6
15°	1760.8
16°	1389.1
17°	1105.9
18°	889.4
19°	723.4
20°	597.1
22.5°	386.1
25°	254.4
26°	214.7
27°	182.2
28°	153.3
29°	128.1
30°	110.0
32.5°	75.8
35°	54.1
37.5°	39.7
40°	28.9
42.5°	19.8
45°	12.6
47.5°	9.0
50°	7.2
52.5°	5.4
55°	3.6
57.5°	1.8
60°	1.8
62.5°	1.8
65°	1.8
67.5°	1.8



TEST NUMBER: P264116

CATALOG NUMBER: LD2B20D010 EU2B2010SP158040 2LBDC\*MMS

**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)