

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: P278196

Luminaire Tested: **LDA2B208027D010 EU2B20SP158027 2LBAD1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P278196  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1811-033-1)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B208027D010 EU2B20SP158027 2LBAD1MW  
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in  
ADJ spun Refl, Self-Flanged, MW  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1964.9 lumens  
Efficiency: N/A  
Efficacy: 95.4 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

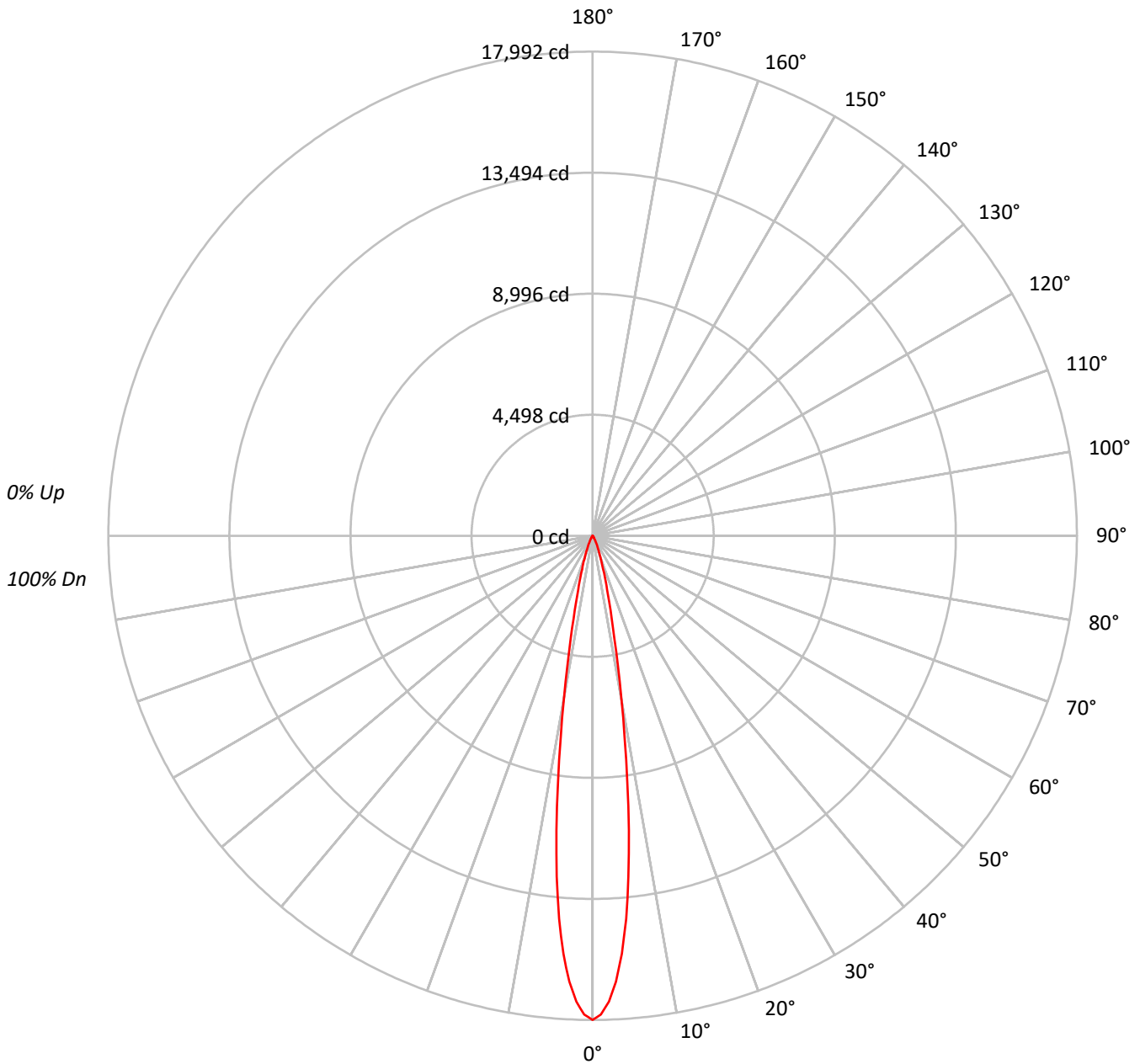
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P278196

CATALOG NUMBER: LDA2B208027D010 EU2B20SP158027 2LBAD1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P278196

CATALOG NUMBER: LDA2B208027D010 EU2B20SP158027 2LBAD1MW

**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	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	110	113	112	110	109	108	106	105	104	103	102	101	100	99	98
2	112	109	107	104	110	108	105	103	105	103	101	102	100	99	99	98	97	96
3	109	105	102	100	108	104	101	99	102	99	98	100	98	96	97	96	95	93
4	107	102	99	96	105	101	98	96	99	97	95	98	95	94	96	94	93	92
5	104	99	96	93	103	99	95	93	97	94	92	96	93	91	94	92	91	90
6	102	97	93	91	101	96	93	91	95	92	90	94	91	89	93	91	89	88
7	100	95	91	89	99	94	91	88	93	90	88	92	90	88	91	89	87	86
8	98	93	89	87	97	92	89	87	91	88	86	90	88	86	90	87	86	85
9	96	91	87	85	95	90	87	85	90	87	85	89	86	84	88	86	84	83
10	94	89	86	83	94	89	85	83	88	85	83	87	85	83	87	85	83	82

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

	0°
0°	8876615
5°	7076971
10°	3072466
15°	1061524
20°	435245
25°	196570
30°	79072
35°	36860
40°	20030
45°	7466
50°	4452
55°	3355
60°	1875
65°	1167
70°	1442
75°	0
80°	0
85°	0



TEST NUMBER: P278196

CATALOG NUMBER: LDA2B208027D010 EU2B20SP158027 2LBAD1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1080.0	55.0
10°-20°	648.6	33.0
20°-30°	178.5	9.1
30°-40°	42.5	2.2
40°-50°	10.5	0.5
50°-60°	3.5	0.2
60°-70°	1.3	0.1
70°-80°	0.1	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°	1907.1	97.1
0°-40°	1949.6	99.2
0°-60°	1963.5	99.9
0°-90°	1964.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1964.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	17992	
5°	14290	###
15°	2078	649
25°	361	179
35°	61	42
45°	11	10
55°	4	3
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P278196

CATALOG NUMBER: LDA2B208027D010 EU2B20SP158027 2LBAD1MW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	17992.1
1°	17793.1
2°	17316.5
3°	16589.4
4°	15563.4
5°	14289.8
6°	12734.8
7°	11031.2
8°	9241.2
9°	7594.8
10°	6133.0
11°	4895.3
12°	3896.4
13°	3142.2
14°	2542.3
15°	2078.3
17.5°	1290.1
20°	829.0
22.5°	543.6
25°	361.1
27.5°	232.0
30°	138.8
32.5°	87.4
35°	61.2
37.5°	44.7
40°	31.1
42.5°	18.4
45°	10.7
47.5°	7.8
50°	5.8
52.5°	4.9
55°	3.9
57.5°	2.9
60°	1.9
62.5°	1.9
65°	1.0
67.5°	1.0
70°	1.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0



TEST NUMBER: P278196

CATALOG NUMBER: LDA2B208027D010 EU2B20SP158027 2LBAD1MW

**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)