

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: P278988

Luminaire Tested: **LDA2B208027D010 EU2B20NFL258027 2LBALD1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P278988  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1811-033-2)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B208027D010 EU2B20NFL258027 2LBALD1MW  
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in ADJ spun Refl w/lens Self-Flanged, MW  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1919.6 lumens  
Efficiency: N/A  
Efficacy: 93.2 lumens/watt  
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.39  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

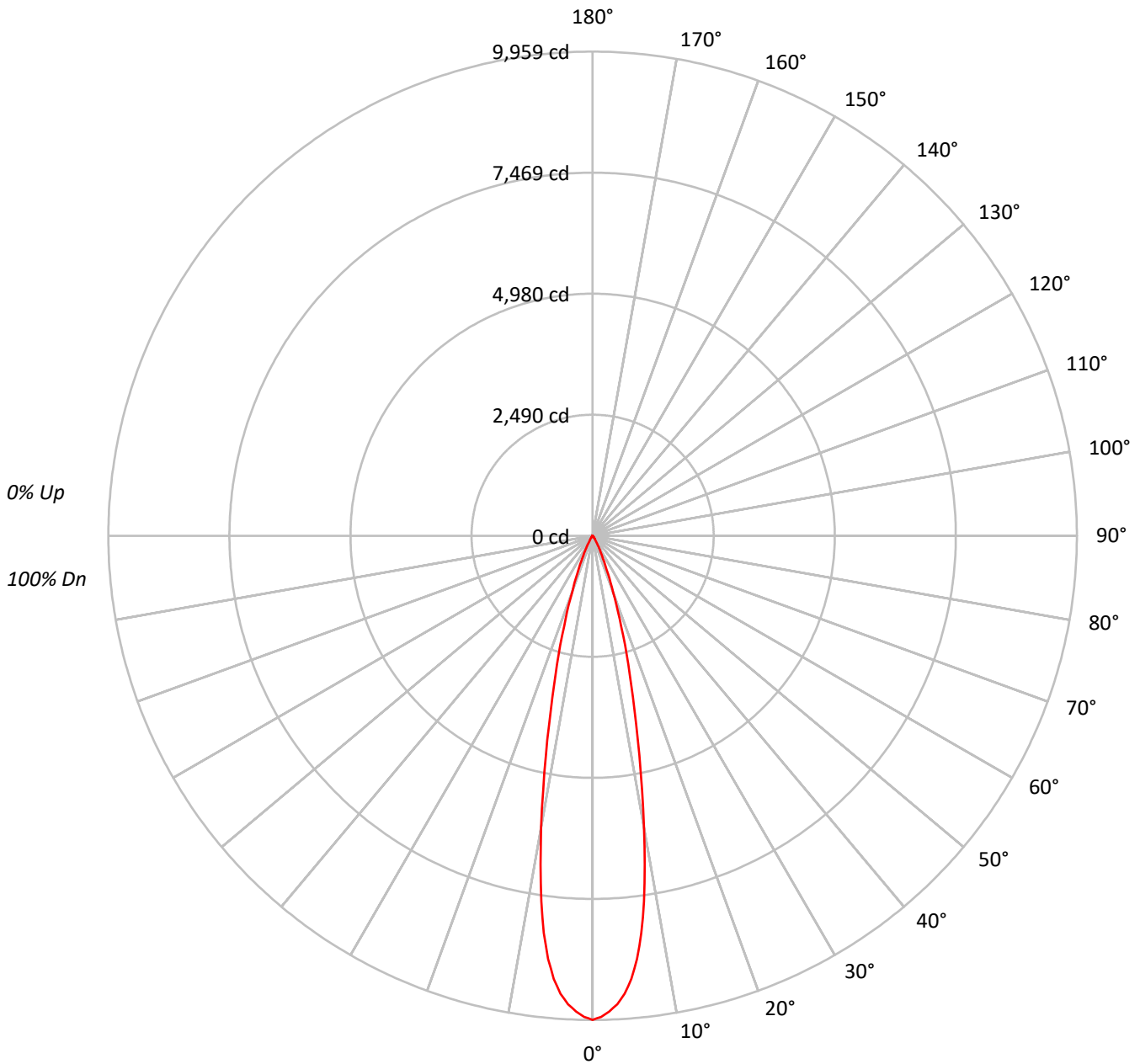
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									20									20
RC	80									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											100																	
1	115	113	111	110	113	111	109	108	107	106	105	103	102	102	100	99	99	97											97																	
2	112	108	105	103	110	107	104	102	103	101	100	101	99	98	98	97	96	94											94																	
3	108	104	100	98	107	103	99	97	100	98	95	98	96	94	96	94	93	91											91																	
4	105	100	96	94	104	99	96	93	97	94	92	95	93	91	94	92	90	89											89																	
5	102	97	93	90	101	96	92	90	94	91	89	93	90	88	92	89	87	86											86																	
6	100	94	90	87	98	93	89	87	92	89	86	91	88	86	89	87	85	84											84																	
7	97	91	87	84	96	90	87	84	89	86	84	88	85	83	87	85	83	82											82																	
8	95	88	85	82	94	88	84	82	87	84	81	86	83	81	85	83	81	80											80																	
9	92	86	82	80	92	86	82	80	85	82	79	84	81	79	84	81	79	78											78																	
10	90	84	80	78	90	84	80	78	83	80	77	82	79	77	82	79	77	76											76																	

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

	0°
0°	4913538
5°	4531455
10°	3053629
15°	1505584
20°	643103
25°	252803
30°	99524
35°	43605
40°	20996
45°	10117
50°	5526
55°	3097
60°	1776
65°	1051
70°	1298
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	775.1	40.4
10°-20°	834.7	43.5
20°-30°	241.0	12.6
30°-40°	50.9	2.6
40°-50°	12.5	0.7
50°-60°	3.6	0.2
60°-70°	1.2	0.1
70°-80°	0.6	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°	1850.8	96.4
0°-40°	1901.7	99.1
0°-60°	1917.8	99.9
0°-90°	1919.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1919.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9959	
5°	9150	775
15°	2948	835
25°	464	241
35°	72	51
45°	14	13
55°	4	4
65°	1	1
75°	0	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	9959.3
1°	9896.8
2°	9790.9
3°	9647.8
4°	9445.0
5°	9149.9
6°	8751.6
7°	8231.9
8°	7592.8
9°	6847.7
10°	6095.4
11°	5335.0
12°	4617.1
13°	3979.7
14°	3419.3
15°	2947.7
17.5°	1948.2
20°	1224.9
22.5°	753.2
25°	464.4
27.5°	283.4
30°	174.7
32.5°	110.4
35°	72.4
37.5°	48.0
40°	32.6
42.5°	22.6
45°	14.5
47.5°	9.1
50°	7.2
52.5°	5.4
55°	3.6
57.5°	2.7
60°	1.8
62.5°	1.8
65°	0.9
67.5°	0.9
70°	0.9
72.5°	0.9
75°	0.0
77.5°	0.9
80°	0.0
82.5°	0.0



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CANDELA DISTRIBUTION (continued):

0°  
90° | 0.0



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— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)