

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: P278249

Luminaire Tested: **LDA2B209027D010 EU2B20SP159027 2LBAD1GPH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P278249  
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: LDA2B209027D010 EU2B20SP159027 2LBAD1GPH  
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in  
ADJ spun Refl, Self-Flanged, GPH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1548.4 lumens  
Efficiency: N/A  
Efficacy: 75.2 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

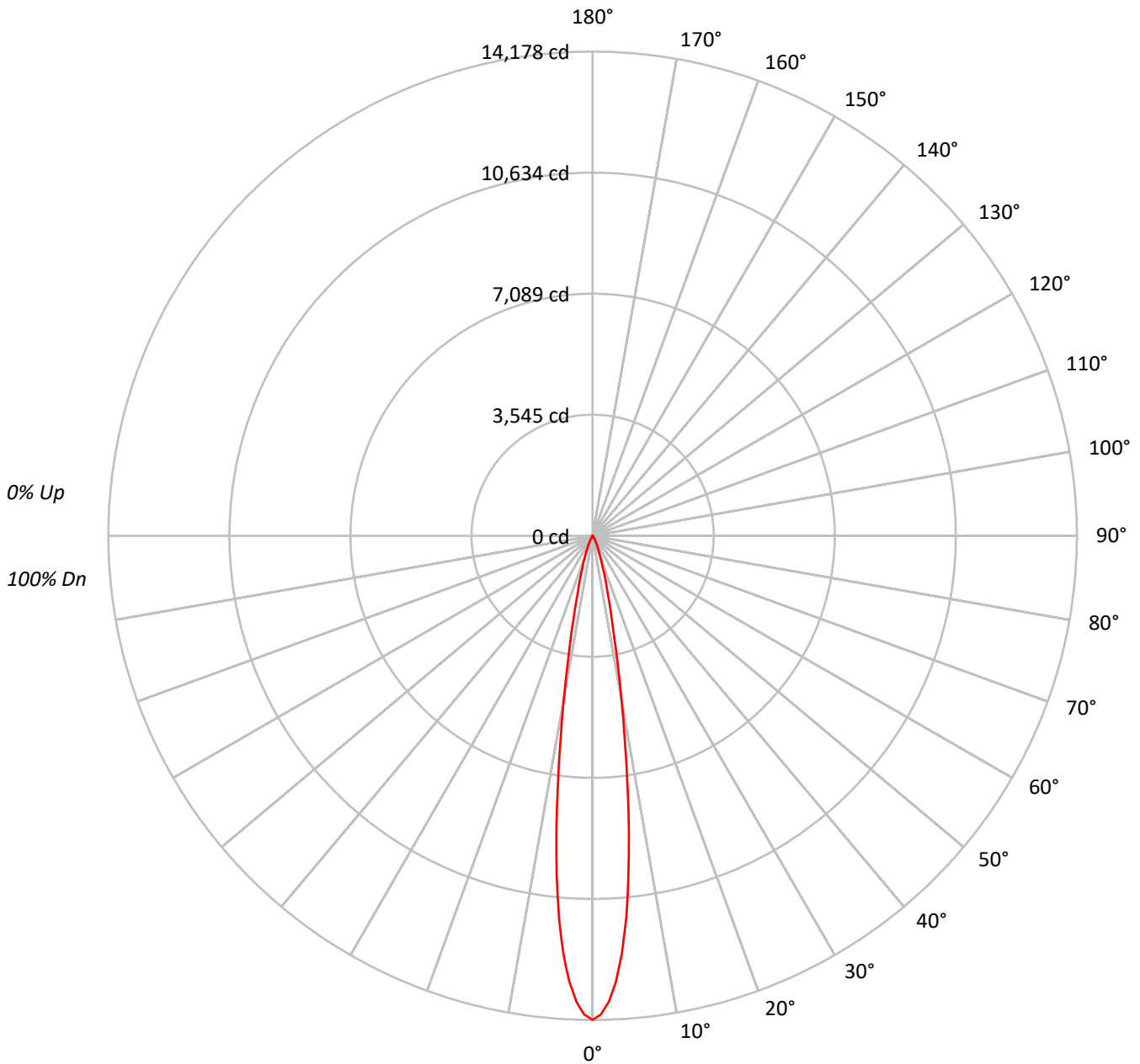
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	6995130
5°	5576969
10°	2421201
15°	836532
20°	342999
25°	154926
30°	62324
35°	29030
40°	15779
45°	5861
50°	3531
55°	2666
60°	1480
65°	934
70°	1154
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	851.1	55.0
10°-20°	511.1	33.0
20°-30°	140.7	9.1
30°-40°	33.5	2.2
40°-50°	8.2	0.5
50°-60°	2.7	0.2
60°-70°	1.0	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°	1502.9	97.1
0°-40°	1536.3	99.2
0°-60°	1547.3	99.9
0°-90°	1548.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1548.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	14178	
5°	11261	851
15°	1638	511
25°	285	141
35°	48	33
45°	8	8
55°	3	3
65°	1	1
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	14178.5
1°	14021.7
2°	13646.1
3°	13073.2
4°	12264.6
5°	11261.0
6°	10035.5
7°	8693.0
8°	7282.4
9°	5985.0
10°	4833.0
11°	3857.7
12°	3070.5
13°	2476.2
14°	2003.4
15°	1637.8
17.5°	1016.6
20°	653.3
22.5°	428.4
25°	284.6
27.5°	182.8
30°	109.4
32.5°	68.8
35°	48.2
37.5°	35.2
40°	24.5
42.5°	14.5
45°	8.4
47.5°	6.1
50°	4.6
52.5°	3.8
55°	3.1
57.5°	2.3
60°	1.5
62.5°	1.5
65°	0.8
67.5°	0.8
70°	0.8
72.5°	0.0
75°	0.0
77.5°	0.0
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)