

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: P279041

Luminaire Tested: **LDA2B208040D010 EU2B20NFL258040 2LBALD1GPH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P279041  
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: LDA2B208040D010 EU2B20NFL258040 2LBALD1GPH  
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC  
AND 2in ADJ spun Refl w/lens Self-Flanged, GPH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2059.3 lumens  
Efficiency: N/A  
Efficacy: 100.0 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

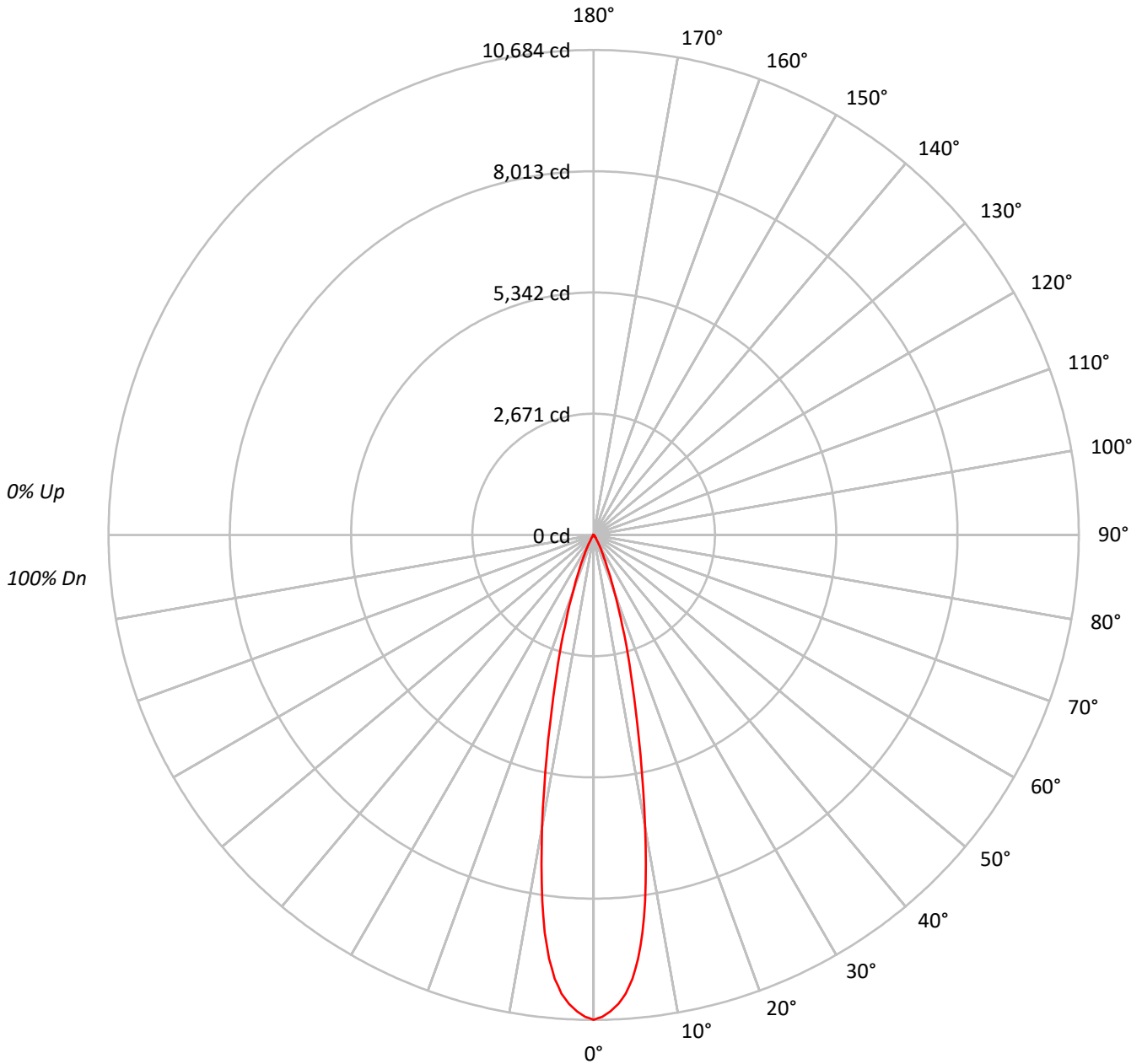
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
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	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°	5270929
5°	4861091
10°	3275760
15°	1615092
20°	689882
25°	271202
30°	106759
35°	46797
40°	22541
45°	10815
50°	5987
55°	3355
60°	1875
65°	1167
70°	1442
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	831.4	40.4
10°-20°	895.4	43.5
20°-30°	258.6	12.6
30°-40°	54.6	2.7
40°-50°	13.4	0.7
50°-60°	3.9	0.2
60°-70°	1.3	0.1
70°-80°	0.7	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°	1985.4	96.4
0°-40°	2040.0	99.1
0°-60°	2057.3	99.9
0°-90°	2059.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2059.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10684	
5°	9816	831
15°	3162	895
25°	498	259
35°	78	55
45°	16	13
55°	4	4
65°	1	1
75°	0	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	10683.7
1°	10616.7
2°	10503.1
3°	10349.6
4°	10132.1
5°	9815.5
6°	9388.2
7°	8830.8
8°	8145.1
9°	7345.9
10°	6538.8
11°	5723.0
12°	4952.9
13°	4269.2
14°	3668.1
15°	3162.1
17.5°	2089.9
20°	1314.0
22.5°	808.0
25°	498.2
27.5°	304.0
30°	187.4
32.5°	118.5
35°	77.7
37.5°	51.5
40°	35.0
42.5°	24.3
45°	15.5
47.5°	9.7
50°	7.8
52.5°	5.8
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°	1.0
75°	0.0
77.5°	1.0
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)