

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: P280014

Luminaire Tested: **LDA2B209035D010 EU2B20FL409035 2LBALD1WMH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P280014  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1811-033-3)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B209035D010 EU2B20FL409035 2LBALD1WMH  
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in  
ADJ spun Refl w/lens Self-Flanged, WMH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1768.2 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.55  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

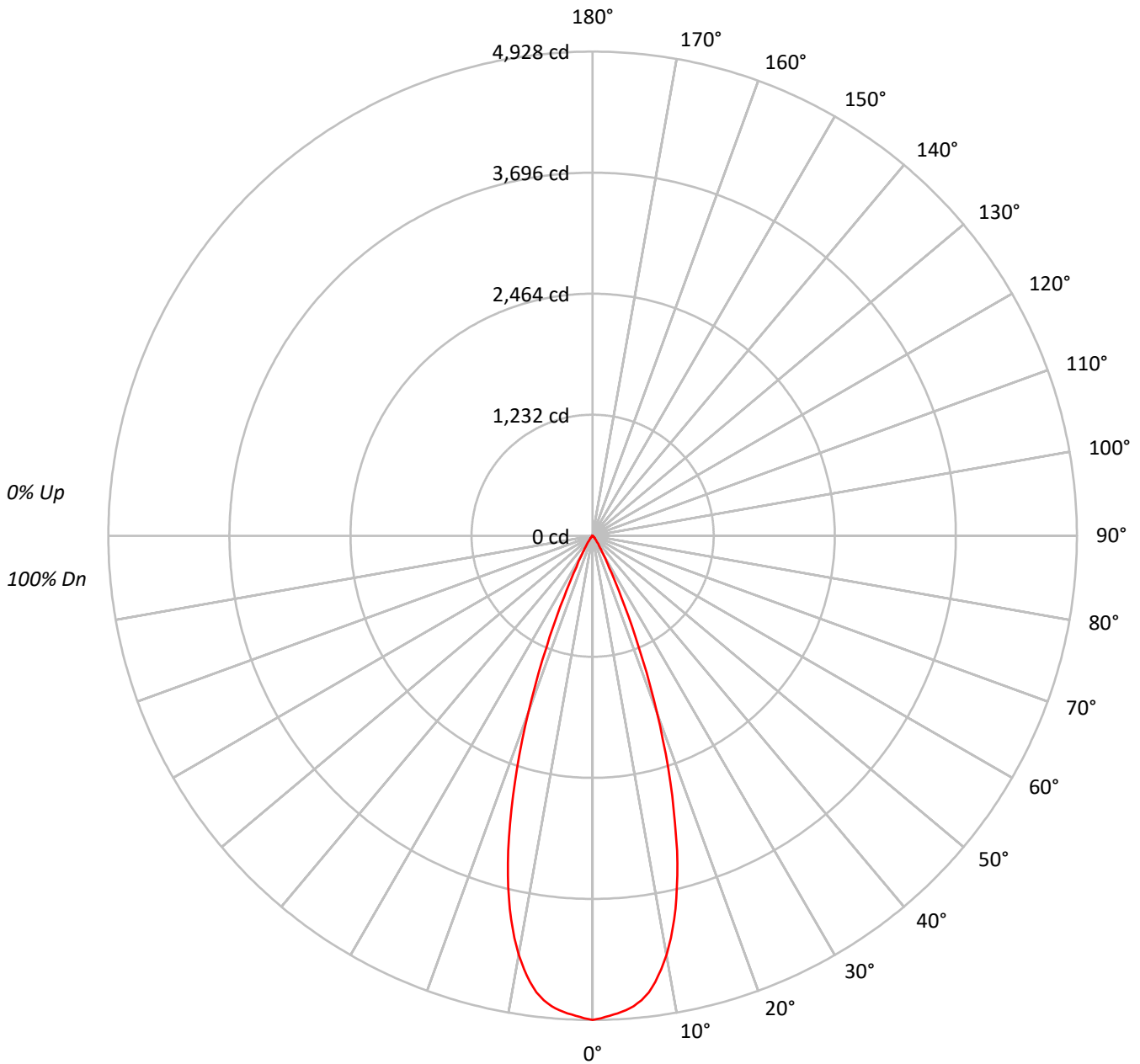
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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									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																											
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																											
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																											
3	107	102	98	95	105	101	97	94	98	95	93	96	94	92	94	92	90	89																											
4	103	98	93	90	102	97	93	90	95	91	89	93	90	88	91	89	87	85																											
5	100	94	89	86	98	93	89	86	91	88	85	90	87	84	88	86	83	82																											
6	97	90	85	82	95	89	85	82	88	84	82	87	83	81	85	83	80	79																											
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																											
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																											
9	88	81	76	73	87	80	76	73	79	76	73	79	75	73	78	75	73	72																											
10	85	78	74	71	84	78	74	71	77	73	71	76	73	70	76	72	70	69																											

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

	0°
0°	2431336
5°	2379906
10°	2169112
15°	1694516
20°	1003217
25°	372944
30°	116558
35°	51796
40°	24023
45°	11303
50°	6217
55°	3527
60°	1579
65°	934
70°	1154
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	444.2	25.1
10°-20°	883.4	50.0
20°-30°	361.8	20.5
30°-40°	59.9	3.4
40°-50°	14.2	0.8
50°-60°	3.8	0.2
60°-70°	0.9	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°	1689.4	95.5
0°-40°	1749.2	98.9
0°-60°	1767.2	99.9
0°-90°	1768.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1768.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4928	
5°	4806	444
15°	3318	883
25°	685	362
35°	86	60
45°	16	14
55°	4	4
65°	1	1
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4928.1
1°	4911.0
2°	4888.3
3°	4868.0
4°	4841.2
5°	4805.5
6°	4752.8
7°	4683.8
8°	4585.5
9°	4466.2
10°	4329.8
11°	4171.5
12°	3993.0
13°	3789.2
14°	3562.7
15°	3317.6
17.5°	2630.9
20°	1910.8
22.5°	1223.3
25°	685.1
27.5°	361.2
30°	204.6
32.5°	129.9
35°	86.0
37.5°	56.8
40°	37.3
42.5°	24.4
45°	16.2
47.5°	11.4
50°	8.1
52.5°	5.7
55°	4.1
57.5°	2.4
60°	1.6
62.5°	0.8
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)