

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: P314938

Luminaire Tested: **LDA2B05NFL9727D010 PINW1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P314938  
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: LDA2B05NFL9727D010 PINW1MW  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC  
AND 2in Adj PinHole, Black oculus, matte white finish  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 508.0 lumens  
Efficiency: N/A  
Efficacy: 72.6 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

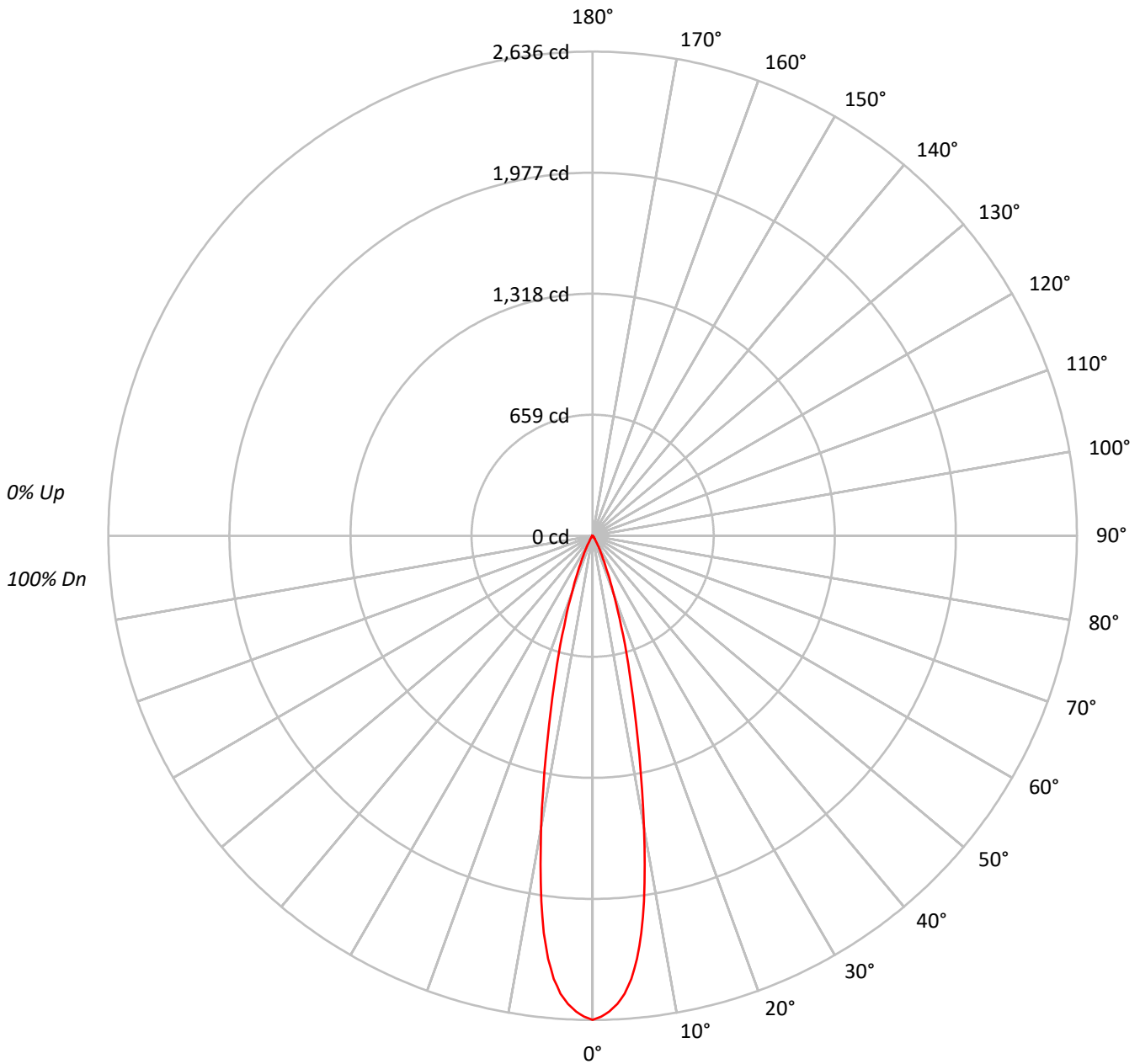
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	1300403
5°	1199289
10°	808169
15°	398448
20°	170213
25°	66902
30°	26319
35°	11564
40°	5539
45°	2651
50°	1458
55°	860
60°	493
65°	233
70°	288
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.1	40.4
10°-20°	220.9	43.5
20°-30°	63.8	12.6
30°-40°	13.5	2.6
40°-50°	3.3	0.7
50°-60°	1.0	0.2
60°-70°	0.3	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°	489.8	96.4
0°-40°	503.3	99.1
0°-60°	507.5	99.9
0°-90°	508.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	508.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2636	
5°	2422	205
15°	780	221
25°	123	64
35°	19	13
45°	4	3
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2635.8
1°	2619.3
2°	2591.2
3°	2553.4
4°	2499.7
5°	2421.6
6°	2316.2
7°	2178.6
8°	2009.5
9°	1812.3
10°	1613.2
11°	1411.9
12°	1221.9
13°	1053.3
14°	905.0
15°	780.1
17.5°	515.6
20°	324.2
22.5°	199.3
25°	122.9
27.5°	75.0
30°	46.2
32.5°	29.2
35°	19.2
37.5°	12.7
40°	8.6
42.5°	6.0
45°	3.8
47.5°	2.4
50°	1.9
52.5°	1.4
55°	1.0
57.5°	0.7
60°	0.5
62.5°	0.5
65°	0.2
67.5°	0.2
70°	0.2
72.5°	0.2
75°	0.0
77.5°	0.2
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)