

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: P314743

Luminaire Tested: **LDA2B05SPD2WD010 PIN1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P314743  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-8)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B05SPD2WD010 PIN1MMS  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in  
Adj PinHole, Black oculus, matte metallic silver finish  
Light Source: -  
Ballast/Driver: -

**Summary**

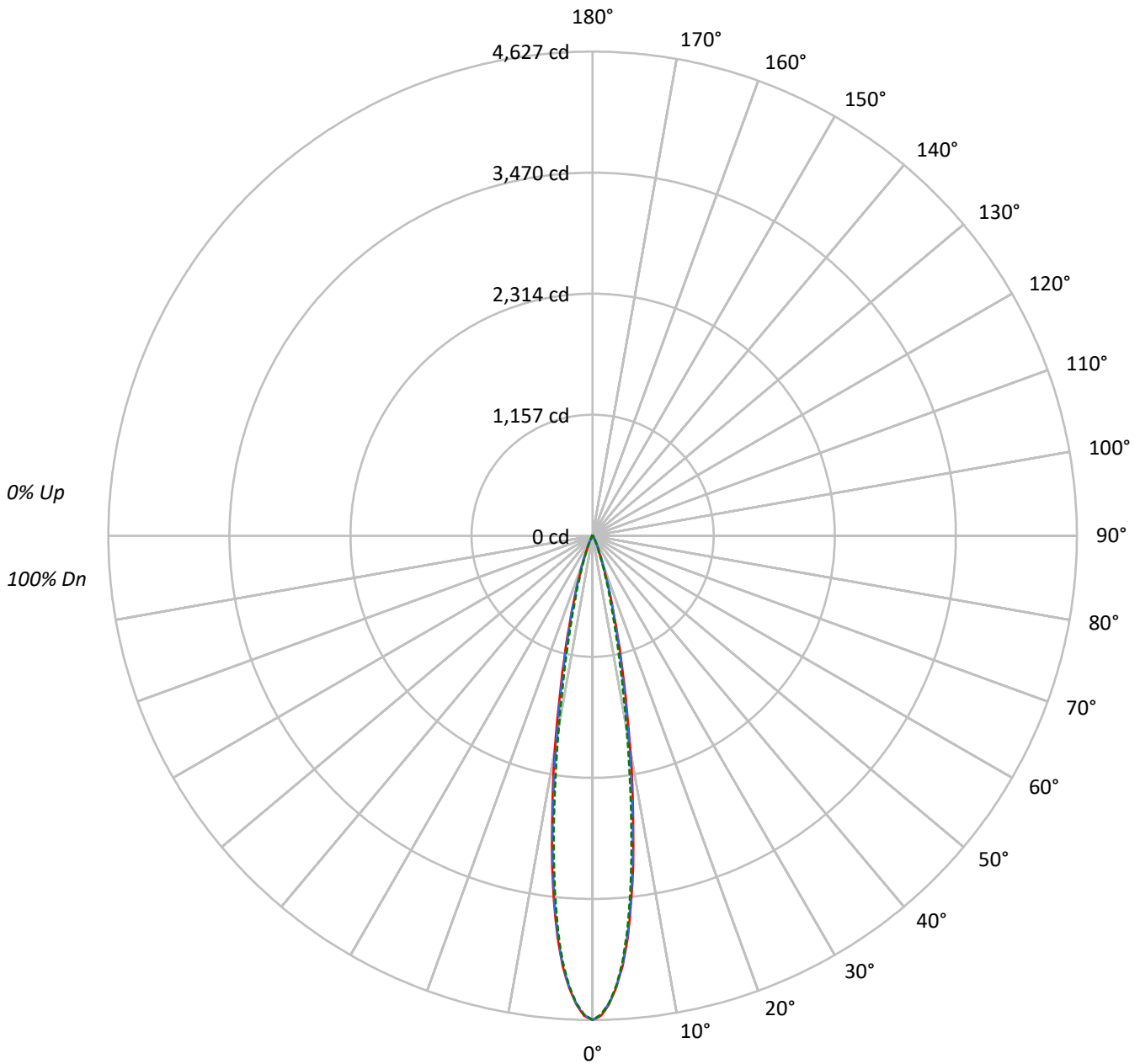
Lumens per Lamp: N/A  
Luminaire Lumens: 595.8 lumens  
Efficiency: N/A  
Efficacy: 85.1 lumens/watt  
Spacing Criteria (0/90/45): 0.32 / 0.3 / 0.32  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 7  
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									
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	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97				97															
2	112	109	106	104	110	107	105	103	104	102	101	101	100	98	99	98	96	95				95															
3	109	105	102	99	107	104	101	98	101	99	97	99	97	95	97	95	94	93				93															
4	106	102	98	96	105	101	97	95	99	96	94	97	95	93	95	93	92	91				91															
5	104	99	95	92	103	98	95	92	96	93	91	95	92	91	94	92	90	89				89															
6	101	96	92	90	100	95	92	90	94	91	89	93	90	88	92	90	88	87				87															
7	99	94	90	88	98	93	90	87	92	89	87	91	89	87	90	88	86	85				85															
8	97	92	88	86	96	91	88	85	90	87	85	89	87	85	89	86	85	84				84															
9	95	90	86	84	95	89	86	84	88	86	83	88	85	83	87	85	83	82				82															
10	93	88	84	82	93	87	84	82	87	84	82	86	84	82	86	83	82	81				81															

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

	0°	45°	90°
0°	2282637	2282637	2282637
5°	1907045	1897933	1875448
10°	1039017	998539	934665
15°	411933	401411	344614
20°	138396	147899	122226
25°	48013	51878	46108
30°	17546	19198	18800
35°	11323	13250	10058
40°	5925	7084	7278
45°	5442	4186	3977
50°	3300	2149	1612
55°	0	0	0
60°	2072	2072	691
65°	1634	467	0
70°	0	1587	2019
75°	0	3431	0
80°	0	0	0
85°	0	2264	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	302.5	50.8
10°-20°	225.2	37.8
20°-30°	49.8	8.4
30°-40°	11.1	1.9
40°-50°	4.5	0.8
50°-60°	0.8	0.1
60°-70°	0.8	0.1
70°-80°	0.6	0.1
80°-90°	0.6	0.1
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°	577.5	96.9
0°-40°	588.5	98.8
0°-60°	593.8	99.7
0°-90°	595.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	595.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4627	4627	4627	4627	4627	
5°	3851	3835	3832	3818	3787	307
15°	806	804	786	713	675	237
25°	88	98	95	88	85	48
35°	19	19	22	18	17	11
45°	8	6	6	6	6	5
55°	0	0	0	0	0	1
65°	1	1	0	0	0	1
75°	0	0	2	0	0	0
85°	0	0	0	1	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4626.7	4626.7	4626.7	4626.7	4626.7
1°	4588.8	4570.1	4579.3	4584.6	4576.8
2°	4481.8	4459.1	4473.7	4475.1	4467.3
3°	4322.4	4312.1	4316.7	4318.5	4302.9
4°	4118.3	4103.4	4106.6	4102.7	4083.5
5°	3850.7	3834.8	3832.3	3817.8	3786.9
6°	3523.7	3514.4	3497.8	3473.0	3431.9
7°	3173.2	3165.8	3137.1	3092.4	3044.9
8°	2789.1	2789.1	2747.6	2686.0	2631.8
9°	2425.5	2412.1	2359.3	2284.8	2232.4
10°	2074.0	2055.9	1993.2	1917.7	1865.7
11°	1741.3	1722.1	1661.9	1584.7	1536.5
12°	1453.9	1443.6	1396.8	1311.8	1263.6
13°	1211.2	1197.7	1156.6	1076.2	1035.1
14°	999.6	982.6	949.7	876.0	835.9
15°	806.5	804.0	785.9	712.6	674.7
16°	659.1	657.7	640.7	569.1	553.5
17°	529.0	536.5	531.5	465.6	447.9
18°	411.8	426.6	430.2	370.7	352.9
19°	331.3	345.5	351.5	299.4	284.5
20°	263.6	277.1	281.7	242.7	232.8
22.5°	149.5	167.6	168.3	148.1	137.8
25°	88.2	98.5	95.3	88.2	84.7
26°	74.1	84.0	79.0	76.9	74.1
27°	62.4	69.1	65.2	61.7	64.1
28°	51.7	56.3	52.4	53.5	49.6
29°	41.1	48.9	43.2	44.3	41.1
30°	30.8	37.9	33.7	35.4	33.0
32.5°	23.0	25.2	22.3	25.2	25.2
35°	18.8	18.8	22.0	17.7	16.7
37.5°	8.5	6.7	7.4	6.0	7.1
40°	9.2	10.3	11.0	9.2	11.3
42.5°	6.4	8.5	8.5	5.7	9.9
45°	7.8	6.4	6.0	6.0	5.7
47.5°	3.5	2.5	2.8	3.2	5.0
50°	4.3	1.8	2.8	4.3	2.1
52.5°	1.4	0.0	1.8	0.0	0.7
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.4	0.7	0.0
60°	2.1	2.5	2.1	1.4	0.7
62.5°	3.5	0.7	1.1	1.4	0.0
65°	1.4	0.7	0.4	0.0	0.0
67.5°	0.0	0.0	1.1	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	1.8	0.0	0.0
77.5°	0.7	0.0	1.4	0.0	0.0
80°	0.0	0.7	0.0	0.0	0.0
82.5°	0.0	0.0	1.8	1.4	0.0
85°	0.0	0.4	0.4	1.1	0.0
87.5°	0.0	1.1	1.4	0.4	0.7
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180°    - - 45°-225°    - - - - 90°-270°







70°	0.0	0.0	1.1	0.7	1.4
72.5°	0.0	0.4	1.4	2.1	0.7



(END OF REPORT)