

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: P314710

Luminaire Tested: **LDA2B05SP8035D010 PIN1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P314710  
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: LDA2B05SP8035D010 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**

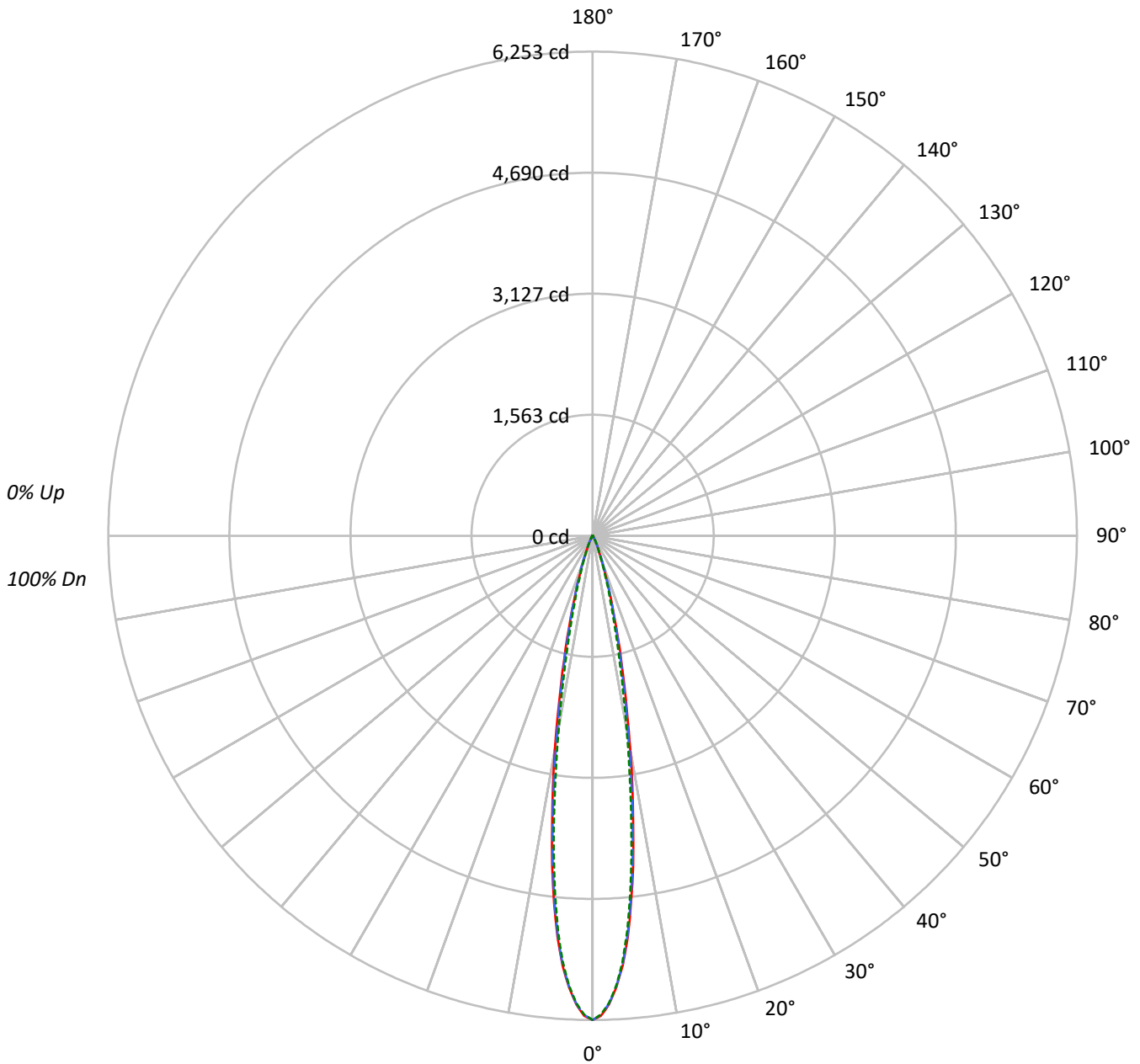
Lumens per Lamp: N/A  
Luminaire Lumens: 805.2 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Spacing Criteria (0/90/45): 0.32 / 0.3 / 0.32  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (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	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°	3084991	3084991	3084991
5°	2577361	2565029	2534671
10°	1404226	1349520	1263153
15°	556735	542535	465716
20°	187066	199877	165173
25°	64888	70114	62330
30°	23756	25921	25351
35°	15298	17888	13551
40°	8050	9532	9854
45°	7326	5652	5372
50°	4375	2917	2226
55°	0	0	0
60°	2861	2861	987
65°	2218	584	0
70°	0	2019	2741
75°	0	4575	0
80°	0	0	0
85°	0	2830	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	408.8	50.8
10°-20°	304.3	37.8
20°-30°	67.3	8.4
30°-40°	15.0	1.9
40°-50°	6.1	0.8
50°-60°	1.0	0.1
60°-70°	1.1	0.1
70°-80°	0.8	0.1
80°-90°	0.8	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°	780.4	96.9
0°-40°	795.4	98.8
0°-60°	802.5	99.7
0°-90°	805.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	805.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6253	6253	6253	6253	6253	
5°	5204	5183	5179	5160	5118	415
15°	1090	1087	1062	963	912	320
25°	119	133	129	119	114	65
35°	25	25	30	24	22	15
45°	10	9	8	8	8	6
55°	0	0	0	0	0	1
65°	2	1	0	0	0	2
75°	0	0	2	0	0	1
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°	6253.0	6253.0	6253.0	6253.0	6253.0
1°	6201.7	6176.4	6188.8	6196.0	6185.5
2°	6057.1	6026.5	6046.1	6048.0	6037.5
3°	5841.6	5827.7	5833.9	5836.3	5815.3
4°	5565.8	5545.6	5550.0	5544.7	5518.8
5°	5204.2	5182.6	5179.3	5159.7	5118.0
6°	4762.2	4749.7	4727.2	4693.7	4638.1
7°	4288.5	4278.5	4239.7	4179.3	4115.2
8°	3769.4	3769.4	3713.4	3630.0	3556.8
9°	3278.1	3259.9	3188.5	3087.9	3017.1
10°	2803.0	2778.6	2693.8	2591.8	2521.4
11°	2353.3	2327.4	2246.0	2141.6	2076.5
12°	1964.9	1951.0	1887.8	1772.9	1707.8
13°	1636.9	1618.7	1563.1	1454.4	1398.9
14°	1351.0	1328.0	1283.4	1183.8	1129.7
15°	1090.0	1086.6	1062.2	963.1	911.8
16°	890.8	888.8	865.8	769.1	748.0
17°	715.0	725.1	718.3	629.3	605.3
18°	556.5	576.6	581.4	500.9	477.0
19°	447.8	466.9	475.1	404.7	384.6
20°	356.3	374.5	380.7	328.0	314.6
22.5°	202.1	226.5	227.5	200.2	186.3
25°	119.2	133.1	128.8	119.2	114.5
26°	100.1	113.5	106.8	103.9	100.1
27°	84.3	93.4	88.1	83.3	86.7
28°	69.9	76.1	70.9	72.3	67.0
29°	55.6	66.1	58.4	59.9	55.6
30°	41.7	51.2	45.5	47.9	44.5
32.5°	31.1	34.0	30.2	34.0	34.0
35°	25.4	25.4	29.7	23.9	22.5
37.5°	11.5	9.1	10.1	8.1	9.6
40°	12.5	13.9	14.8	12.5	15.3
42.5°	8.6	11.5	11.5	7.7	13.4
45°	10.5	8.6	8.1	8.1	7.7
47.5°	4.8	3.4	3.8	4.3	6.7
50°	5.7	2.4	3.8	5.7	2.9
52.5°	1.9	0.0	2.4	0.0	1.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.5	1.0	0.0
60°	2.9	3.4	2.9	1.9	1.0
62.5°	4.8	1.0	1.4	1.9	0.0
65°	1.9	1.0	0.5	0.0	0.0
67.5°	0.0	0.0	1.4	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	2.4	0.0	0.0
77.5°	1.0	0.0	1.9	0.0	0.0
80°	0.0	1.0	0.0	0.0	0.0
82.5°	0.0	0.0	2.4	1.9	0.0
85°	0.0	0.5	0.5	1.4	0.0
87.5°	0.0	1.4	1.9	0.5	1.0
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	1.4	1.0	1.9
72.5°	0.0	0.5	1.9	2.9	1.0



(END OF REPORT)