

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: P314776

Luminaire Tested: **LDA2B10SP9050D010 PIN1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P314776
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: LDA2B10SP9050D010 PIN1MMS
Description: PORTFOLIO 2IN ADJ 1000 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: 950.6 lumens
Efficiency: N/A
Efficacy: 95.1 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

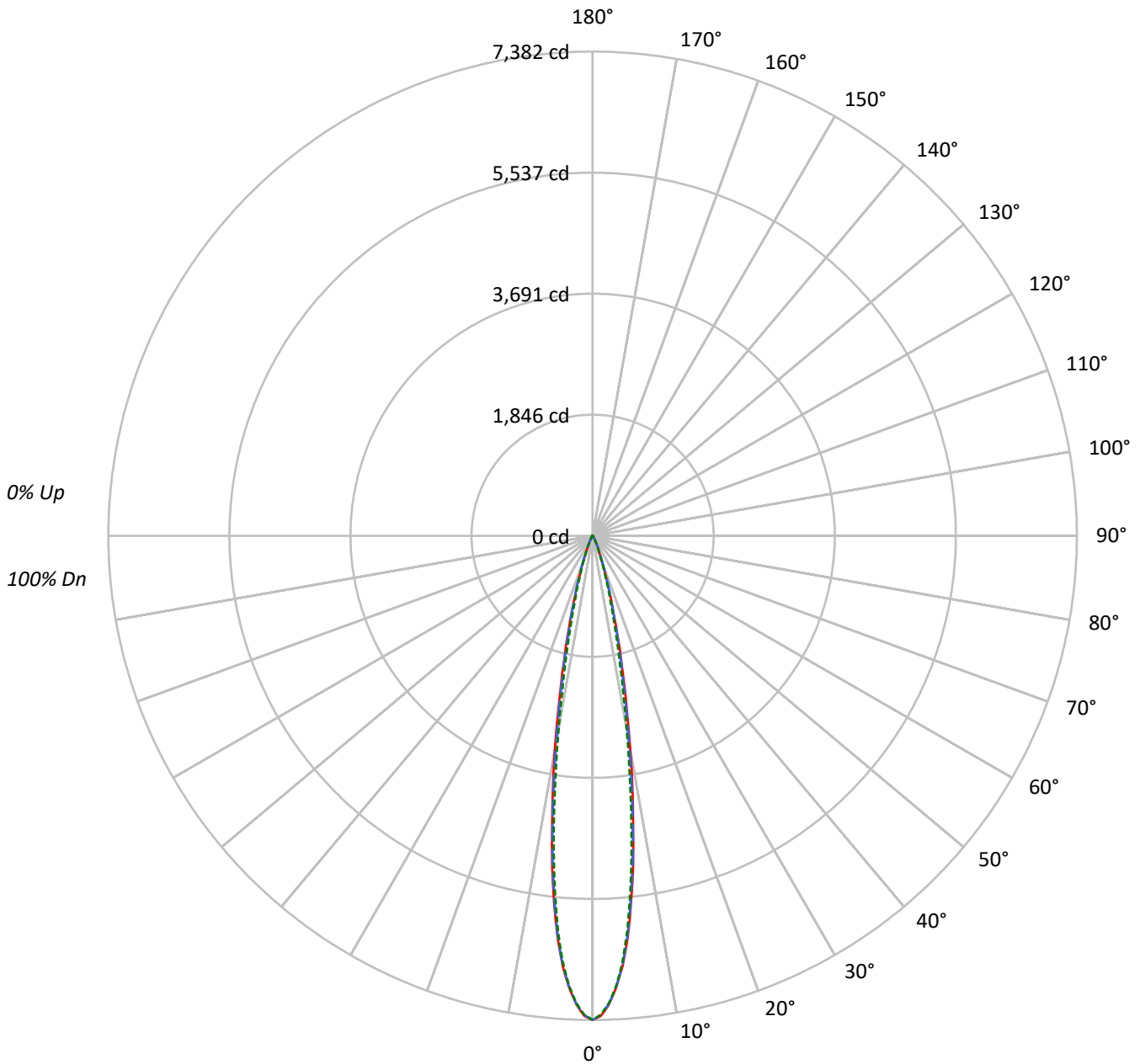
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3641898	3641898	3641898
5°	3042645	3028085	2992229
10°	1657719	1593143	1491195
15°	657202	640449	549788
20°	220825	235999	194994
25°	76647	82798	73544
30°	28029	30592	29965
35°	18069	21140	16021
40°	9467	11271	11657
45°	8652	6698	6279
50°	5219	3454	2610
55°	0	0	0
60°	3355	3355	1085
65°	2685	700	0
70°	0	2452	3318
75°	0	5337	0
80°	0	0	0
85°	0	3396	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.6	50.8
10°-20°	359.2	37.8
20°-30°	79.4	8.4
30°-40°	17.7	1.9
40°-50°	7.2	0.8
50°-60°	1.2	0.1
60°-70°	1.3	0.1
70°-80°	1.0	0.1
80°-90°	0.9	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°	921.3	96.9
0°-40°	939.0	98.8
0°-60°	947.4	99.7
0°-90°	950.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	950.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7382	7382	7382	7382	7382	
5°	6144	6118	6114	6091	6042	490
15°	1287	1283	1254	1137	1076	378
25°	141	157	152	141	135	77
35°	30	30	35	28	27	17
45°	12	10	10	10	9	7
55°	0	0	0	0	0	2
65°	2	1	1	0	0	2
75°	0	0	3	0	0	1
85°	0	1	1	2	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7381.8	7381.8	7381.8	7381.8	7381.8
1°	7321.3	7291.3	7306.0	7314.5	7302.1
2°	7150.6	7114.4	7137.5	7139.8	7127.4
3°	6896.1	6879.7	6887.1	6889.9	6865.1
4°	6570.5	6546.8	6551.8	6545.6	6515.1
5°	6143.7	6118.2	6114.3	6091.1	6041.9
6°	5621.8	5607.1	5580.6	5541.0	5475.4
7°	5062.7	5050.8	5005.0	4933.8	4858.1
8°	4449.9	4449.9	4383.7	4285.4	4198.9
9°	3869.8	3848.3	3764.1	3645.4	3561.7
10°	3309.0	3280.2	3180.1	3059.7	2976.6
11°	2778.1	2747.6	2651.5	2528.2	2451.4
12°	2319.6	2303.2	2228.6	2092.9	2016.0
13°	1932.4	1910.9	1845.3	1717.0	1651.4
14°	1594.9	1567.7	1515.1	1397.5	1333.7
15°	1286.7	1282.8	1253.9	1136.9	1076.4
16°	1051.6	1049.3	1022.2	908.0	883.1
17°	844.1	855.9	848.0	742.9	714.6
18°	656.9	680.7	686.3	591.4	563.1
19°	528.6	551.2	560.8	477.7	454.0
20°	420.6	442.1	449.5	387.3	371.4
22.5°	238.6	267.4	268.5	236.3	219.9
25°	140.8	157.2	152.1	140.8	135.1
26°	118.2	134.0	126.1	122.7	118.2
27°	99.5	110.2	104.0	98.4	102.3
28°	82.5	89.9	83.7	85.4	79.1
29°	65.6	78.0	69.0	70.7	65.6
30°	49.2	60.5	53.7	56.5	52.6
32.5°	36.7	40.1	35.6	40.1	40.1
35°	30.0	30.0	35.1	28.3	26.6
37.5°	13.6	10.7	11.9	9.6	11.3
40°	14.7	16.4	17.5	14.7	18.1
42.5°	10.2	13.6	13.6	9.0	15.8
45°	12.4	10.2	9.6	9.6	9.0
47.5°	5.7	4.0	4.5	5.1	7.9
50°	6.8	2.8	4.5	6.8	3.4
52.5°	2.3	0.0	2.8	0.0	1.1
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.6	1.1	0.0
60°	3.4	4.0	3.4	2.3	1.1
62.5°	5.7	1.1	1.7	2.3	0.0
65°	2.3	1.1	0.6	0.0	0.0
67.5°	0.0	0.0	1.7	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	2.8	0.0	0.0
77.5°	1.1	0.0	2.3	0.0	0.0
80°	0.0	1.1	0.0	0.0	0.0
82.5°	0.0	0.0	2.8	2.3	0.0
85°	0.0	0.6	0.6	1.7	0.0
87.5°	0.0	1.7	2.3	0.6	1.1
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	1.7	1.1	2.3
72.5°	0.0	0.6	2.3	3.4	1.1



(END OF REPORT)