

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: P314771

Luminaire Tested: **LDA2B10SP9035D010 PIN1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P314771
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: LDA2B10SP9035D010 PIN1MB
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in
Adj PinHole, Black oculus black finish
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 906.0 lumens
Efficiency: N/A
Efficacy: 90.6 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

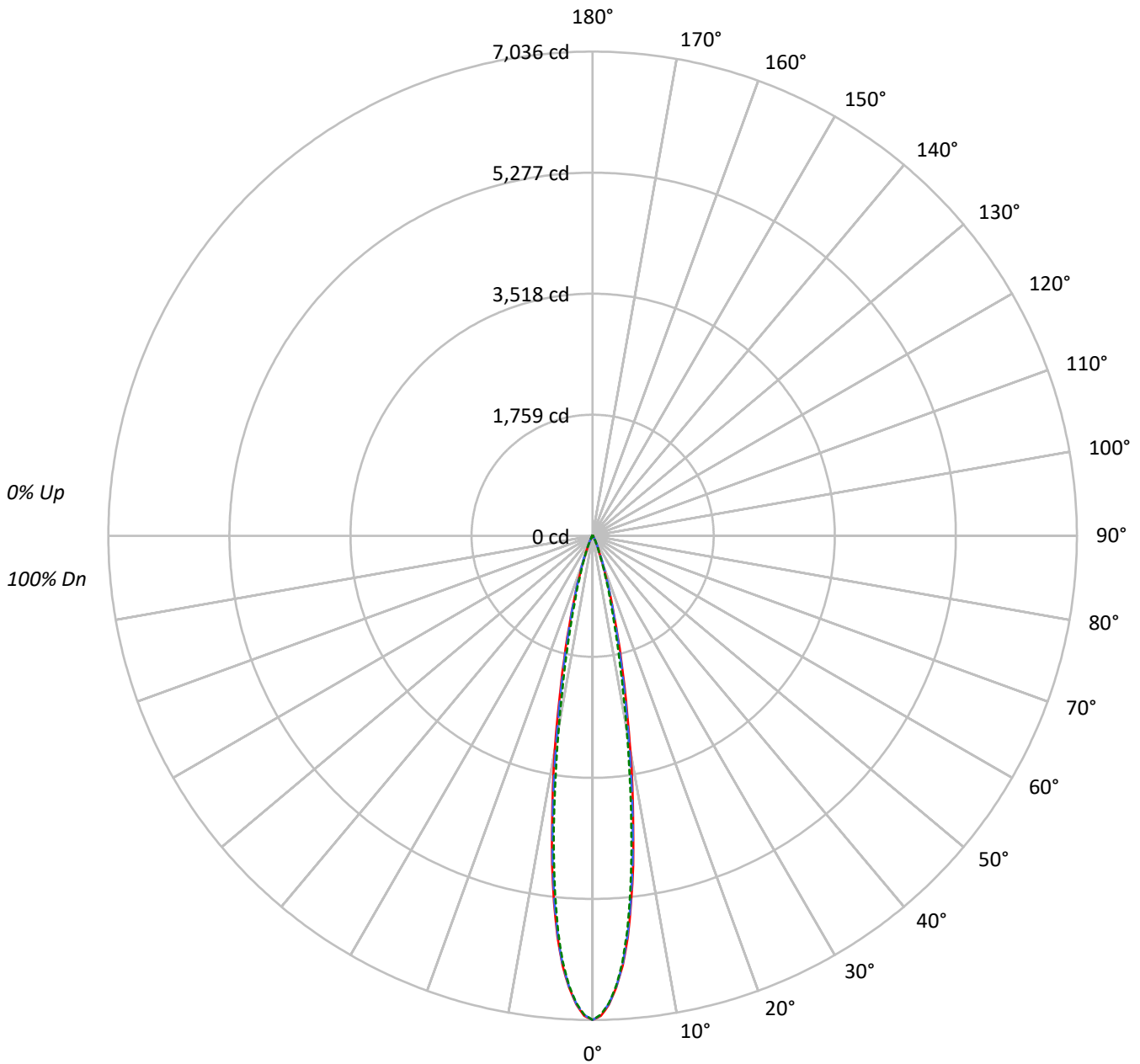
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3471096	3471096	3471096
5°	2899965	2886048	2851926
10°	1579968	1518448	1421260
15°	626403	610416	523995
20°	210482	224921	185859
25°	73054	78878	70114
30°	26718	29168	28541
35°	17225	20116	15238
40°	9017	10755	11077
45°	8303	6419	6000
50°	4989	3300	2456
55°	0	0	0
60°	3158	3158	1085
65°	2568	584	0
70°	0	2308	3173
75°	0	5147	0
80°	0	0	0
85°	0	2830	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.0	50.8
10°-20°	342.4	37.8
20°-30°	75.7	8.4
30°-40°	16.8	1.9
40°-50°	6.9	0.8
50°-60°	1.2	0.1
60°-70°	1.2	0.1
70°-80°	0.9	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°	878.1	96.9
0°-40°	895.0	98.8
0°-60°	903.0	99.7
0°-90°	906.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	906.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7036	7036	7036	7036	7036	
5°	5856	5831	5828	5806	5759	467
15°	1226	1223	1195	1084	1026	361
25°	134	150	145	134	129	73
35°	29	29	33	27	25	16
45°	12	10	9	9	9	7
55°	0	0	0	0	0	2
65°	2	1	0	0	0	2
75°	0	0	3	0	0	1
85°	0	0	0	2	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7035.6	7035.6	7035.6	7035.6	7035.6
1°	6978.0	6949.4	6963.4	6971.5	6959.6
2°	6815.2	6780.8	6802.8	6805.0	6793.1
3°	6572.8	6557.1	6564.1	6566.8	6543.1
4°	6262.4	6239.8	6244.6	6238.7	6209.6
5°	5855.6	5831.3	5827.5	5805.5	5758.6
6°	5358.2	5344.2	5318.9	5281.2	5218.7
7°	4825.3	4814.0	4770.3	4702.4	4630.2
8°	4241.2	4241.2	4178.2	4084.4	4002.0
9°	3688.4	3667.9	3587.6	3474.4	3394.7
10°	3153.8	3126.3	3031.0	2916.2	2837.0
11°	2647.9	2618.8	2527.2	2409.7	2336.4
12°	2210.9	2195.2	2124.1	1994.8	1921.5
13°	1841.8	1821.3	1758.8	1636.5	1573.9
14°	1520.1	1494.2	1444.1	1332.0	1271.1
15°	1226.4	1222.6	1195.1	1083.6	1025.9
16°	1002.2	1000.1	974.2	865.4	841.7
17°	804.5	815.8	808.3	708.0	681.1
18°	626.1	648.8	654.2	563.6	536.7
19°	503.8	525.4	534.5	455.3	432.7
20°	400.9	421.4	428.4	369.1	354.0
22.5°	227.4	254.9	255.9	225.2	209.6
25°	134.2	149.8	144.9	134.2	128.8
26°	112.6	127.7	120.2	116.9	112.6
27°	94.8	105.1	99.1	93.8	97.5
28°	78.7	85.7	79.7	81.4	75.4
29°	62.5	74.4	65.7	67.4	62.5
30°	46.9	57.7	51.2	53.9	50.1
32.5°	35.0	38.3	33.9	38.3	38.3
35°	28.6	28.6	33.4	26.9	25.3
37.5°	12.9	10.2	11.3	9.2	10.8
40°	14.0	15.6	16.7	14.0	17.2
42.5°	9.7	12.9	12.9	8.6	15.1
45°	11.9	9.7	9.2	9.2	8.6
47.5°	5.4	3.8	4.3	4.8	7.5
50°	6.5	2.7	4.3	6.5	3.2
52.5°	2.2	0.0	2.7	0.0	1.1
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.5	1.1	0.0
60°	3.2	3.8	3.2	2.2	1.1
62.5°	5.4	1.1	1.6	2.2	0.0
65°	2.2	1.1	0.5	0.0	0.0
67.5°	0.0	0.0	1.6	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	2.7	0.0	0.0
77.5°	1.1	0.0	2.2	0.0	0.0
80°	0.0	1.1	0.0	0.0	0.0
82.5°	0.0	0.0	2.7	2.2	0.0
85°	0.0	0.5	0.5	1.6	0.0
87.5°	0.0	1.6	2.2	0.5	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	1.6	1.1	2.2
72.5°	0.0	0.5	2.2	3.2	1.1



(END OF REPORT)