

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: P314773

Luminaire Tested: **LDA2B10SP9040D010 PIN1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P314773
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: LDA2B10SP9040D010 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: 925.3 lumens
Efficiency: N/A
Efficacy: 92.5 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

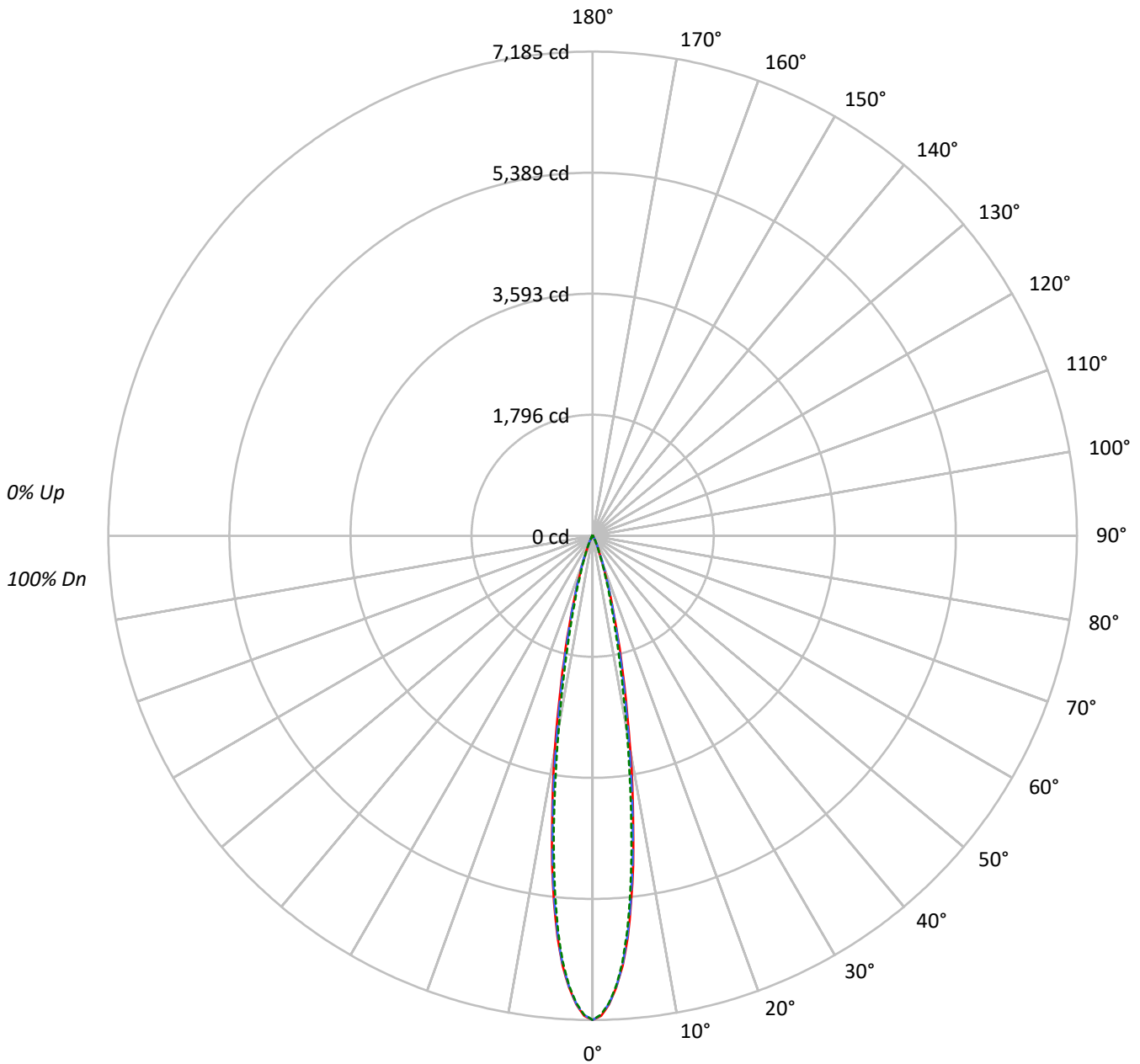
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3544903	3544903	3544903
5°	2961623	2947409	2912544
10°	1613583	1550711	1451468
15°	639734	623441	535180
20°	214945	229698	189796
25°	74578	80566	71584
30°	27288	29795	29168
35°	17587	20538	15599
40°	9210	11013	11335
45°	8442	6559	6140
50°	5066	3377	2533
55°	0	0	0
60°	3256	3256	1085
65°	2568	700	0
70°	0	2452	3173
75°	0	5337	0
80°	0	0	0
85°	0	3396	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.8	50.8
10°-20°	349.7	37.8
20°-30°	77.3	8.4
30°-40°	17.2	1.9
40°-50°	7.0	0.8
50°-60°	1.2	0.1
60°-70°	1.2	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°	896.8	96.9
0°-40°	914.0	98.8
0°-60°	922.2	99.7
0°-90°	925.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	925.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7185	7185	7185	7185	7185	
5°	5980	5955	5951	5929	5881	477
15°	1252	1249	1221	1107	1048	368
25°	137	153	148	137	132	75
35°	29	29	34	28	26	17
45°	12	10	9	9	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°	7185.2	7185.2	7185.2	7185.2	7185.2
1°	7126.3	7097.2	7111.5	7119.7	7107.6
2°	6960.1	6924.9	6947.5	6949.7	6937.6
3°	6712.5	6696.5	6703.7	6706.4	6682.2
4°	6395.5	6372.4	6377.4	6371.3	6341.6
5°	5980.1	5955.3	5951.4	5928.9	5881.0
6°	5472.1	5457.8	5432.0	5393.4	5329.6
7°	4927.9	4916.3	4871.8	4802.4	4728.7
8°	4331.4	4331.4	4267.0	4171.2	4087.0
9°	3766.8	3745.9	3663.9	3548.3	3466.9
10°	3220.9	3192.8	3095.4	2978.2	2897.3
11°	2704.1	2674.4	2580.9	2460.9	2386.1
12°	2257.9	2241.9	2169.3	2037.2	1962.4
13°	1880.9	1860.0	1796.2	1671.2	1607.4
14°	1552.4	1526.0	1474.8	1360.3	1298.1
15°	1252.5	1248.6	1220.6	1106.6	1047.8
16°	1023.5	1021.3	994.9	883.8	859.6
17°	821.6	833.1	825.4	723.1	695.6
18°	639.4	662.6	668.1	575.6	548.1
19°	514.5	536.5	545.9	465.0	441.9
20°	409.4	430.3	437.5	377.0	361.5
22.5°	232.2	260.3	261.4	230.0	214.1
25°	137.0	153.0	148.0	137.0	131.5
26°	115.0	130.4	122.7	119.4	115.0
27°	96.9	107.3	101.3	95.8	99.6
28°	80.3	87.5	81.4	83.1	77.0
29°	63.8	75.9	67.1	68.8	63.8
30°	47.9	58.9	52.3	55.0	51.2
32.5°	35.8	39.1	34.7	39.1	39.1
35°	29.2	29.2	34.1	27.5	25.9
37.5°	13.2	10.5	11.6	9.4	11.0
40°	14.3	16.0	17.1	14.3	17.6
42.5°	9.9	13.2	13.2	8.8	15.4
45°	12.1	9.9	9.4	9.4	8.8
47.5°	5.5	3.9	4.4	5.0	7.7
50°	6.6	2.8	4.4	6.6	3.3
52.5°	2.2	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°	3.3	3.9	3.3	2.2	1.1
62.5°	5.5	1.1	1.7	2.2	0.0
65°	2.2	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	2.2	0.0	0.0
80°	0.0	1.1	0.0	0.0	0.0
82.5°	0.0	0.0	2.8	2.2	0.0
85°	0.0	0.6	0.6	1.7	0.0
87.5°	0.0	1.7	2.2	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	2.2
72.5°	0.0	0.6	2.2	3.3	1.1



(END OF REPORT)