

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: P314789

Luminaire Tested: **LDA2B15SP8027D010 PIN1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P314789
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: LDA2B15SP8027D010 PIN1MB
Description: PORTFOLIO 2IN ADJ 1500 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: 1412.4 lumens
Efficiency: N/A
Efficacy: 100.2 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

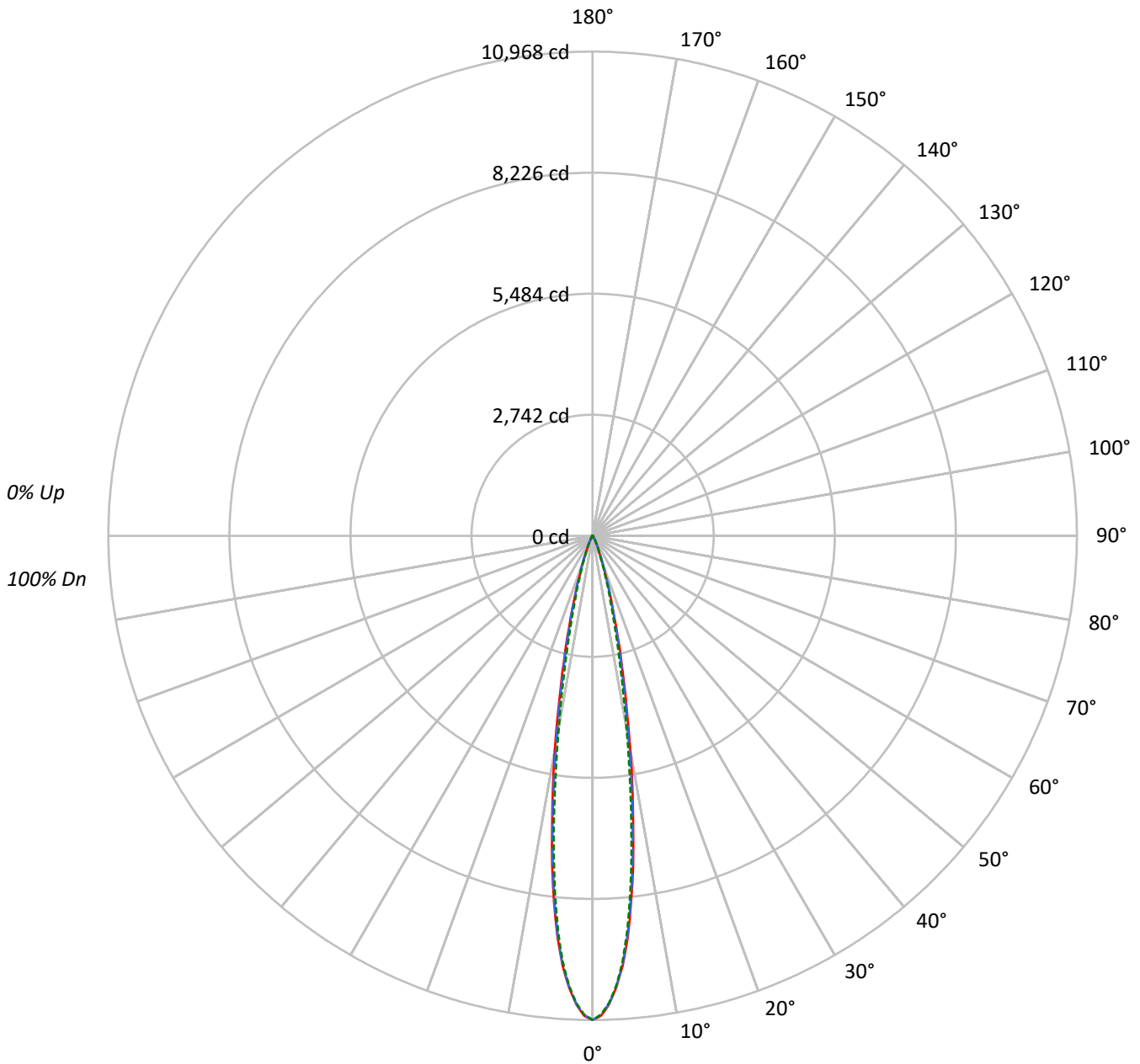
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	91	95	92	91	94	92	90	89				89															
6	101	96	92	90	100	95	92	90	94	91	89	93	90	89	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°	5411143	5411143	5411143
5°	4520757	4499165	4445876
10°	2463032	2367096	2215602
15°	976533	951608	816919
20°	328140	350611	289761
25°	113881	123026	109308
30°	41644	45461	44492
35°	26802	31379	23790
40°	14040	16745	17325
45°	12908	9977	9349
50°	7752	5142	3838
55°	0	0	0
60°	4934	4934	1677
65°	3969	934	0
70°	0	3606	4904
75°	0	8006	0
80°	0	0	0
85°	0	4529	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	717.1	50.8
10°-20°	533.8	37.8
20°-30°	118.0	8.4
30°-40°	26.2	1.9
40°-50°	10.7	0.8
50°-60°	1.8	0.1
60°-70°	1.9	0.1
70°-80°	1.5	0.1
80°-90°	1.4	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°	1368.9	96.9
0°-40°	1395.2	98.8
0°-60°	1407.7	99.7
0°-90°	1412.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1412.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10968	10968	10968	10968	10968	
5°	9128	9090	9085	9050	8977	728
15°	1912	1906	1863	1689	1599	562
25°	209	234	226	209	201	114
35°	44	44	52	42	40	25
45°	18	15	14	14	13	11
55°	0	0	0	0	0	2
65°	3	2	1	0	0	3
75°	0	0	4	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°	10967.9	10967.9	10967.9	10967.9	10967.9
1°	10878.1	10833.5	10855.4	10868.0	10849.5
2°	10624.4	10570.6	10605.1	10608.4	10589.9
3°	10246.4	10222.0	10232.9	10237.1	10200.2
4°	9762.5	9727.3	9734.8	9725.6	9680.2
5°	9128.3	9090.5	9084.7	9050.2	8977.1
6°	8353.0	8331.2	8291.7	8232.9	8135.4
7°	7522.2	7504.6	7436.6	7330.7	7218.2
8°	6611.7	6611.7	6513.4	6367.2	6238.7
9°	5749.8	5717.9	5592.8	5416.4	5292.0
10°	4916.5	4873.7	4725.0	4546.1	4422.6
11°	4127.8	4082.4	3939.6	3756.5	3642.3
12°	3446.5	3422.2	3311.3	3109.7	2995.5
13°	2871.1	2839.2	2741.8	2551.1	2453.7
14°	2369.7	2329.3	2251.2	2076.5	1981.6
15°	1911.9	1906.0	1863.1	1689.2	1599.4
16°	1562.4	1559.0	1518.7	1349.0	1312.1
17°	1254.1	1271.8	1260.0	1103.8	1061.8
18°	976.1	1011.4	1019.8	878.6	836.6
19°	785.4	819.0	833.3	709.8	674.5
20°	625.0	656.9	667.8	575.4	551.9
22.5°	354.5	397.3	399.0	351.1	326.8
25°	209.2	233.5	226.0	209.2	200.8
26°	175.6	199.1	187.3	182.3	175.6
27°	147.8	163.8	154.6	146.2	152.0
28°	122.6	133.6	124.3	126.8	117.6
29°	97.4	115.9	102.5	105.0	97.4
30°	73.1	89.9	79.8	84.0	78.1
32.5°	54.6	59.6	52.9	59.6	59.6
35°	44.5	44.5	52.1	42.0	39.5
37.5°	20.2	16.0	17.6	14.3	16.8
40°	21.8	24.4	26.0	21.8	26.9
42.5°	15.1	20.2	20.2	13.4	23.5
45°	18.5	15.1	14.3	14.3	13.4
47.5°	8.4	5.9	6.7	7.6	11.8
50°	10.1	4.2	6.7	10.1	5.0
52.5°	3.4	0.0	4.2	0.0	1.7
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.8	1.7	0.0
60°	5.0	5.9	5.0	3.4	1.7
62.5°	8.4	1.7	2.5	3.4	0.0
65°	3.4	1.7	0.8	0.0	0.0
67.5°	0.0	0.0	2.5	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	4.2	0.0	0.0
77.5°	1.7	0.0	3.4	0.0	0.0
80°	0.0	1.7	0.0	0.0	0.0
82.5°	0.0	0.0	4.2	3.4	0.0
85°	0.0	0.8	0.8	2.5	0.0
87.5°	0.0	2.5	3.4	0.8	1.7
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	2.5	1.7	3.4
72.5°	0.0	0.8	3.4	5.0	1.7



(END OF REPORT)