

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: P314804

Luminaire Tested: **LDA2B15SP9024D010 PIN1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P314804
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: LDA2B15SP9024D010 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: 1032.9 lumens
Efficiency: N/A
Efficacy: 73.3 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

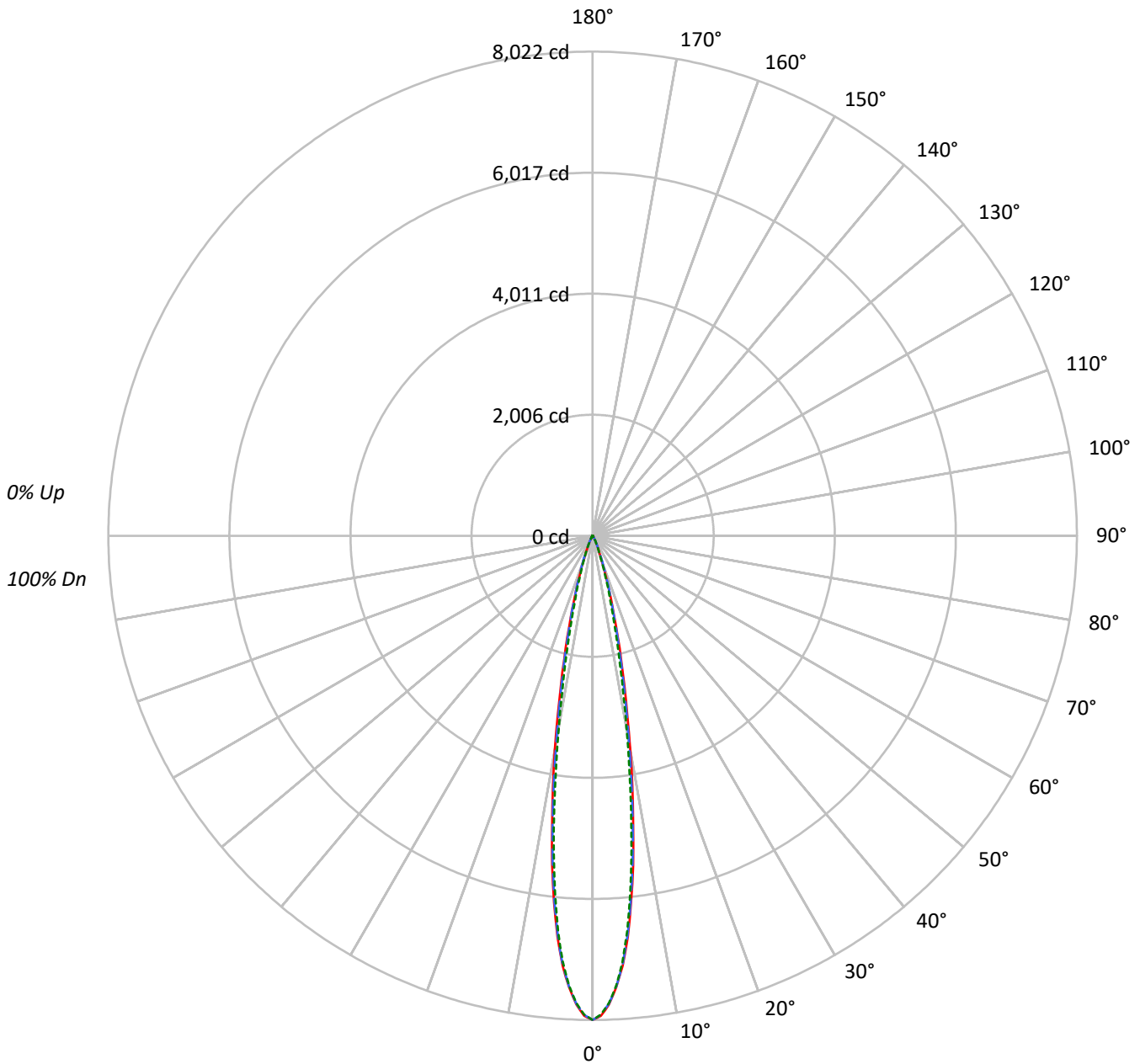
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3957551	3957551	3957551
5°	3306314	3290516	3251589
10°	1801398	1731211	1620446
15°	714204	695969	597443
20°	239989	256422	211900
25°	83288	89983	79913
30°	30421	33270	32529
35°	19634	22947	17406
40°	10305	12237	12688
45°	9419	7256	6838
50°	5680	3761	2840
55°	0	0	0
60°	3651	3651	1184
65°	2918	700	0
70°	0	2596	3606
75°	0	5909	0
80°	0	0	0
85°	0	3396	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.5	50.8
10°-20°	390.4	37.8
20°-30°	86.3	8.4
30°-40°	19.2	1.9
40°-50°	7.8	0.8
50°-60°	1.3	0.1
60°-70°	1.3	0.1
70°-80°	1.1	0.1
80°-90°	1.0	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°	1001.2	96.9
0°-40°	1020.4	98.8
0°-60°	1029.5	99.7
0°-90°	1032.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1032.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8022	8022	8022	8022	8022	
5°	6676	6648	6644	6619	6566	532
15°	1398	1394	1363	1236	1170	411
25°	153	171	165	153	147	83
35°	33	33	38	31	29	19
45°	14	11	10	10	10	8
55°	0	0	0	0	0	2
65°	2	1	1	0	0	3
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°	8021.6	8021.6	8021.6	8021.6	8021.6
1°	7955.8	7923.3	7939.2	7948.5	7934.9
2°	7770.3	7731.0	7756.2	7758.6	7745.1
3°	7493.8	7476.0	7484.0	7487.1	7460.1
4°	7140.0	7114.2	7119.7	7112.9	7079.8
5°	6676.1	6648.5	6644.2	6619.0	6565.6
6°	6109.1	6093.1	6064.3	6021.2	5950.0
7°	5501.5	5488.6	5438.8	5361.4	5279.1
8°	4835.6	4835.6	4763.7	4656.8	4562.8
9°	4205.2	4181.9	4090.3	3961.3	3870.4
10°	3595.8	3564.5	3455.7	3324.9	3234.6
11°	3018.9	2985.7	2881.3	2747.4	2663.8
12°	2520.7	2502.9	2421.8	2274.3	2190.8
13°	2099.8	2076.5	2005.2	1865.8	1794.5
14°	1733.1	1703.6	1646.5	1518.7	1449.3
15°	1398.3	1394.0	1362.6	1235.5	1169.7
16°	1142.7	1140.2	1110.7	986.6	959.6
17°	917.2	930.1	921.5	807.3	776.5
18°	713.9	739.7	745.8	642.6	611.9
19°	574.4	599.0	609.4	519.1	493.3
20°	457.1	480.4	488.4	420.8	403.6
22.5°	259.3	290.6	291.8	256.8	239.0
25°	153.0	170.8	165.3	153.0	146.8
26°	128.4	145.6	137.0	133.3	128.4
27°	108.1	119.8	113.0	106.9	111.2
28°	89.7	97.7	90.9	92.8	86.0
29°	71.3	84.8	75.0	76.8	71.3
30°	53.4	65.7	58.4	61.4	57.1
32.5°	39.9	43.6	38.7	43.6	43.6
35°	32.6	32.6	38.1	30.7	28.9
37.5°	14.7	11.7	12.9	10.4	12.3
40°	16.0	17.8	19.0	16.0	19.7
42.5°	11.1	14.7	14.7	9.8	17.2
45°	13.5	11.1	10.4	10.4	9.8
47.5°	6.1	4.3	4.9	5.5	8.6
50°	7.4	3.1	4.9	7.4	3.7
52.5°	2.5	0.0	3.1	0.0	1.2
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.6	1.2	0.0
60°	3.7	4.3	3.7	2.5	1.2
62.5°	6.1	1.2	1.8	2.5	0.0
65°	2.5	1.2	0.6	0.0	0.0
67.5°	0.0	0.0	1.8	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	3.1	0.0	0.0
77.5°	1.2	0.0	2.5	0.0	0.0
80°	0.0	1.2	0.0	0.0	0.0
82.5°	0.0	0.0	3.1	2.5	0.0
85°	0.0	0.6	0.6	1.8	0.0
87.5°	0.0	1.8	2.5	0.6	1.2
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	1.8	1.2	2.5
72.5°	0.0	0.6	2.5	3.7	1.2



(END OF REPORT)