

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: P314720

Luminaire Tested: **LDA2B05SP9024D010 PIN1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P314720
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: LDA2B05SP9024D010 PIN1MB
Description: PORTFOLIO 2IN ADJ 500 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: 571.4 lumens
Efficiency: N/A
Efficacy: 81.6 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

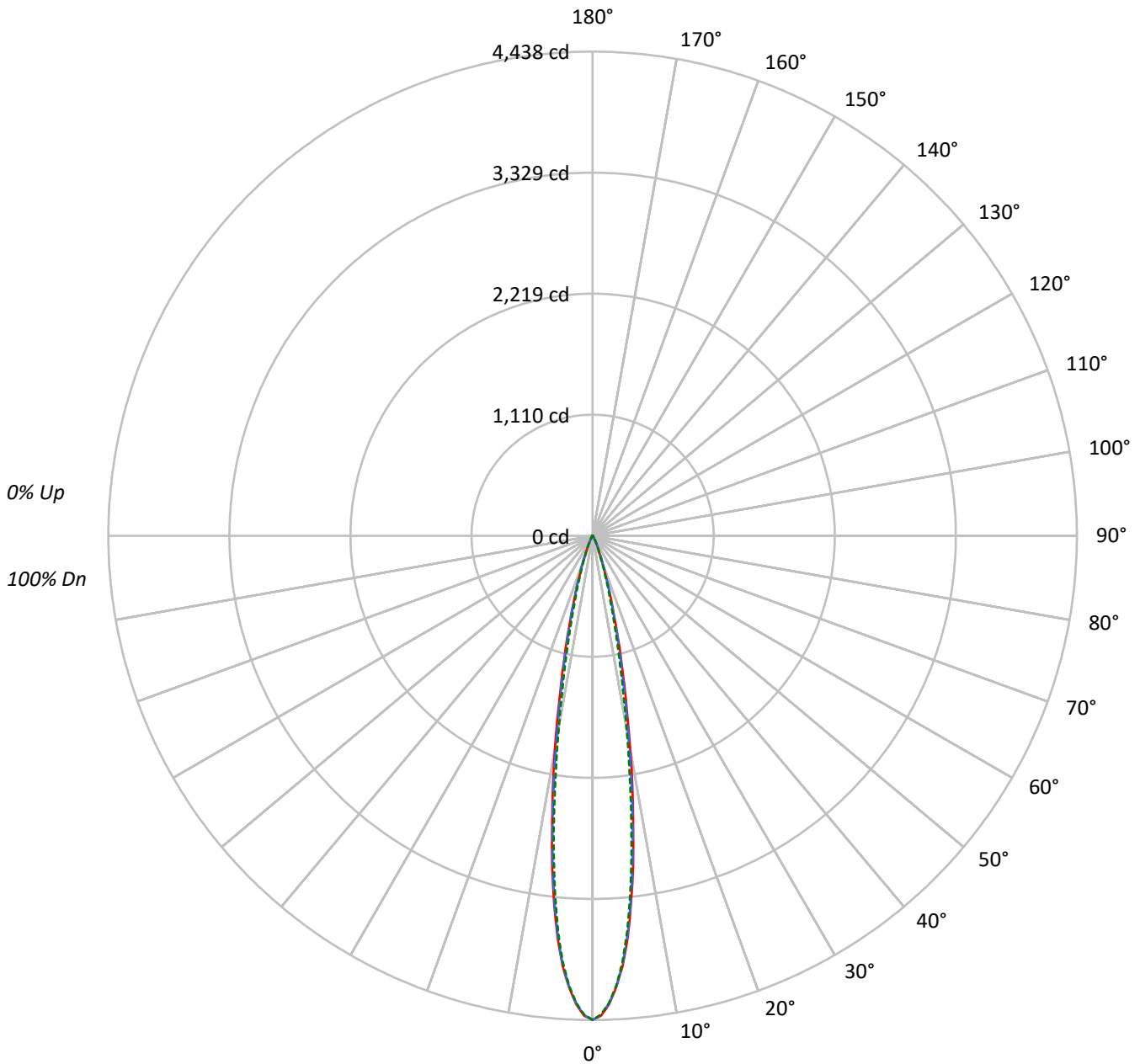
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2189293	2189293	2189293
5°	1829044	1820278	1798735
10°	996535	957709	896390
15°	395077	385015	330516
20°	132779	141862	117238
25°	46053	49755	44202
30°	16863	18401	18002
35°	10841	12708	9637
40°	5668	6762	7020
45°	5233	4047	3768
50°	3147	2072	1535
55°	0	0	0
60°	1973	1973	691
65°	1634	350	0
70°	0	1442	2019
75°	0	3241	0
80°	0	0	0
85°	0	1698	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.1	50.8
10°-20°	216.0	37.8
20°-30°	47.8	8.4
30°-40°	10.6	1.9
40°-50°	4.3	0.8
50°-60°	0.7	0.1
60°-70°	0.8	0.1
70°-80°	0.6	0.1
80°-90°	0.6	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°	553.8	96.9
0°-40°	564.5	98.8
0°-60°	569.5	99.7
0°-90°	571.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	571.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4438	4438	4438	4438	4438	
5°	3693	3678	3676	3662	3632	294
15°	774	771	754	683	647	227
25°	85	94	91	85	81	46
35°	18	18	21	17	16	10
45°	8	6	6	6	5	4
55°	0	0	0	0	0	1
65°	1	1	0	0	0	1
75°	0	0	2	0	0	0
85°	0	0	0	1	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4437.5	4437.5	4437.5	4437.5	4437.5
1°	4401.1	4383.1	4391.9	4397.0	4389.5
2°	4298.5	4276.7	4290.6	4292.0	4284.5
3°	4145.5	4135.7	4140.1	4141.8	4126.8
4°	3949.8	3935.5	3938.6	3934.8	3916.5
5°	3693.2	3677.9	3675.5	3661.6	3632.0
6°	3379.5	3370.7	3354.7	3330.9	3291.5
7°	3043.4	3036.3	3008.7	2965.9	2920.4
8°	2675.0	2675.0	2635.2	2576.1	2524.1
9°	2326.3	2313.4	2262.7	2191.4	2141.1
10°	1989.2	1971.8	1911.7	1839.3	1789.3
11°	1670.0	1651.7	1593.9	1519.8	1473.6
12°	1394.4	1384.6	1339.7	1258.1	1211.9
13°	1161.6	1148.7	1109.3	1032.1	992.7
14°	958.7	942.4	910.8	840.1	801.7
15°	773.5	771.1	753.8	683.4	647.1
16°	632.1	630.8	614.5	545.8	530.9
17°	507.4	514.5	509.8	446.6	429.6
18°	394.9	409.2	412.6	355.5	338.5
19°	317.8	331.4	337.1	287.2	272.9
20°	252.9	265.8	270.2	232.8	223.3
22.5°	143.4	160.8	161.4	142.1	132.2
25°	84.6	94.5	91.4	84.6	81.2
26°	71.0	80.5	75.8	73.7	71.0
27°	59.8	66.3	62.5	59.1	61.5
28°	49.6	54.0	50.3	51.3	47.6
29°	39.4	46.9	41.5	42.5	39.4
30°	29.6	36.4	32.3	34.0	31.6
32.5°	22.1	24.1	21.4	24.1	24.1
35°	18.0	18.0	21.1	17.0	16.0
37.5°	8.2	6.5	7.1	5.8	6.8
40°	8.8	9.9	10.5	8.8	10.9
42.5°	6.1	8.2	8.2	5.4	9.5
45°	7.5	6.1	5.8	5.8	5.4
47.5°	3.4	2.4	2.7	3.1	4.8
50°	4.1	1.7	2.7	4.1	2.0
52.5°	1.4	0.0	1.7	0.0	0.7
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.3	0.7	0.0
60°	2.0	2.4	2.0	1.4	0.7
62.5°	3.4	0.7	1.0	1.4	0.0
65°	1.4	0.7	0.3	0.0	0.0
67.5°	0.0	0.0	1.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	1.7	0.0	0.0
77.5°	0.7	0.0	1.4	0.0	0.0
80°	0.0	0.7	0.0	0.0	0.0
82.5°	0.0	0.0	1.7	1.4	0.0
85°	0.0	0.3	0.3	1.0	0.0
87.5°	0.0	1.0	1.4	0.3	0.7
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	1.0	0.7	1.4
72.5°	0.0	0.3	1.4	2.0	0.7



(END OF REPORT)