

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: P314834

Luminaire Tested: **LDA2B20SP8030D010 PIN1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P314834
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: LDA2B20SP8030D010 PIN1MB
Description: PORTFOLIO 2IN ADJ 2000 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: 2002.8 lumens
Efficiency: N/A
Efficacy: 97.2 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

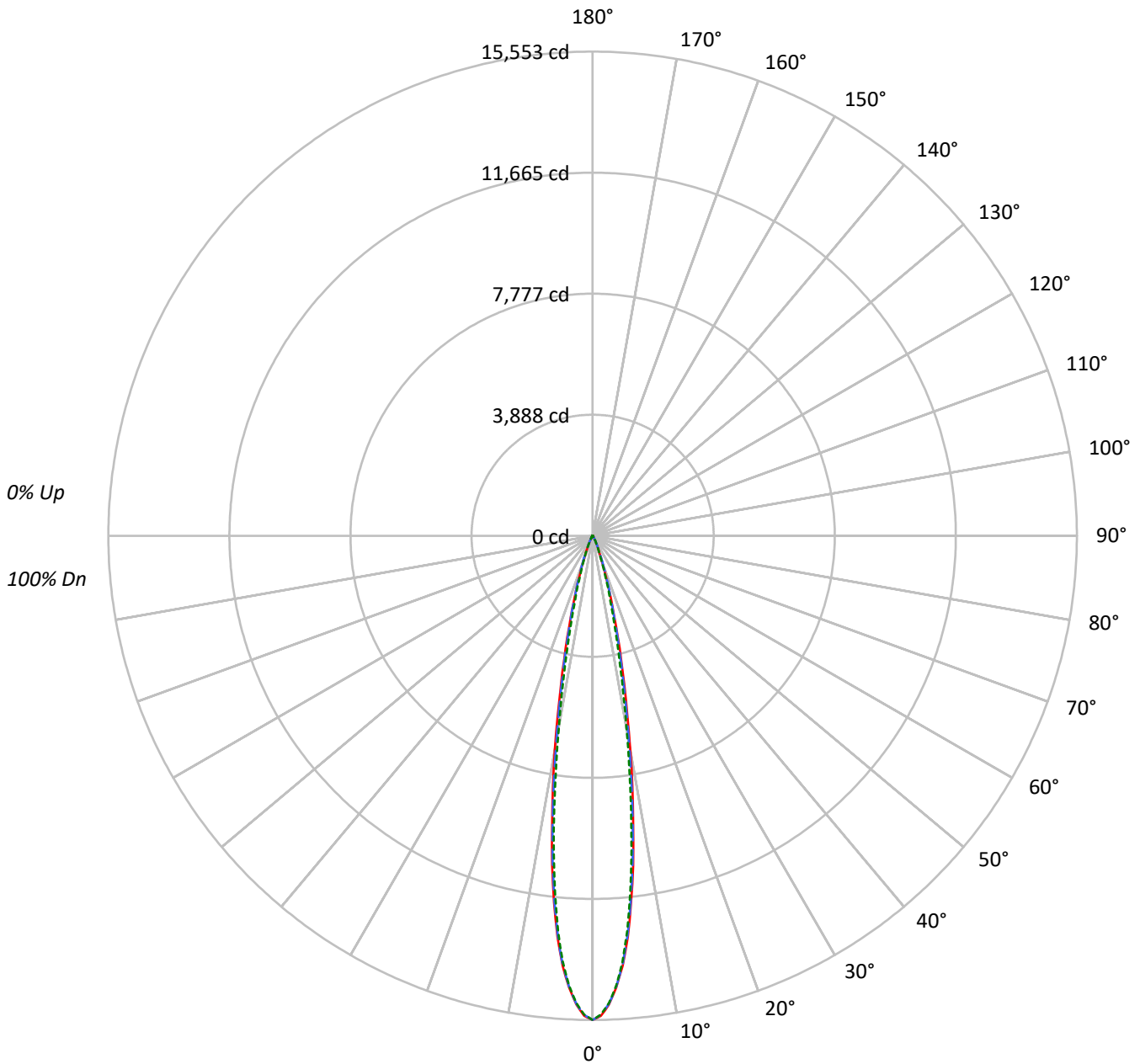
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7673256	7673256	7673256
5°	6410617	6379962	6304437
10°	3492731	3356667	3141850
15°	1384737	1349443	1158417
20°	465277	497198	410884
25°	161459	174414	154981
30°	59019	64488	63121
35°	38004	44509	33728
40°	19965	23765	24538
45°	18280	14094	13326
50°	10976	7292	5449
55°	0	0	0
60°	7006	7006	2368
65°	5603	1401	0
70°	0	5193	6924
75°	0	11437	0
80°	0	0	0
85°	0	6793	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1016.9	50.8
10°-20°	756.9	37.8
20°-30°	167.4	8.4
30°-40°	37.2	1.9
40°-50°	15.2	0.8
50°-60°	2.5	0.1
60°-70°	2.6	0.1
70°-80°	2.1	0.1
80°-90°	2.0	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°	1941.2	96.9
0°-40°	1978.4	98.8
0°-60°	1996.1	99.7
0°-90°	2002.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2002.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15553	15553	15553	15553	15553	
5°	12944	12891	12882	12834	12730	1032
15°	2711	2703	2642	2395	2268	797
25°	297	331	320	297	285	162
35°	63	63	74	60	56	36
45°	26	21	20	20	19	16
55°	0	0	0	0	0	3
65°	5	2	1	0	0	5
75°	0	0	6	0	0	1
85°	0	1	1	4	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15553.0	15553.0	15553.0	15553.0	15553.0
1°	15425.5	15362.4	15393.3	15411.2	15385.0
2°	15065.8	14989.5	15038.4	15043.1	15016.9
3°	14529.8	14495.2	14510.7	14516.7	14464.2
4°	13843.6	13793.6	13804.3	13791.2	13726.9
5°	12944.3	12890.7	12882.4	12833.5	12729.9
6°	11844.9	11813.9	11757.9	11674.5	11536.4
7°	10666.8	10641.8	10545.3	10395.2	10235.6
8°	9375.6	9375.6	9236.2	9029.0	8846.7
9°	8153.5	8108.2	7930.7	7680.6	7504.3
10°	6971.9	6911.1	6700.3	6446.6	6271.5
11°	5853.4	5789.0	5586.5	5326.9	5164.9
12°	4887.3	4852.8	4695.5	4409.7	4247.7
13°	4071.4	4026.1	3887.9	3617.5	3479.4
14°	3360.3	3303.1	3192.3	2944.5	2809.9
15°	2711.1	2702.7	2642.0	2395.4	2268.0
16°	2215.6	2210.8	2153.6	1913.0	1860.6
17°	1778.4	1803.4	1786.7	1565.2	1505.6
18°	1384.1	1434.2	1446.1	1246.0	1186.4
19°	1113.7	1161.4	1181.6	1006.5	956.5
20°	886.2	931.5	947.0	815.9	782.6
22.5°	502.7	563.4	565.8	497.9	463.4
25°	296.6	331.1	320.4	296.6	284.7
26°	249.0	282.3	265.6	258.5	249.0
27°	209.6	232.3	219.2	207.3	215.6
28°	173.9	189.4	176.3	179.9	166.8
29°	138.2	164.4	145.3	148.9	138.2
30°	103.6	127.5	113.2	119.1	110.8
32.5°	77.4	84.6	75.0	84.6	84.6
35°	63.1	63.1	73.9	59.6	56.0
37.5°	28.6	22.6	25.0	20.2	23.8
40°	31.0	34.5	36.9	31.0	38.1
42.5°	21.4	28.6	28.6	19.1	33.4
45°	26.2	21.4	20.2	20.2	19.1
47.5°	11.9	8.3	9.5	10.7	16.7
50°	14.3	6.0	9.5	14.3	7.1
52.5°	4.8	0.0	6.0	0.0	2.4
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	1.2	2.4	0.0
60°	7.1	8.3	7.1	4.8	2.4
62.5°	11.9	2.4	3.6	4.8	0.0
65°	4.8	2.4	1.2	0.0	0.0
67.5°	0.0	0.0	3.6	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	6.0	0.0	0.0
77.5°	2.4	0.0	4.8	0.0	0.0
80°	0.0	2.4	0.0	0.0	0.0
82.5°	0.0	0.0	6.0	4.8	0.0
85°	0.0	1.2	1.2	3.6	0.0
87.5°	0.0	3.6	4.8	1.2	2.4
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	3.6	2.4	4.8
72.5°	0.0	1.2	4.8	7.1	2.4



(END OF REPORT)