

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: P314829

Luminaire Tested: **LDA2B20SP8027D010 PIN1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P314829
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: LDA2B20SP8027D010 PIN1MW
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in
Adj PinHole, Black oculus, matte white finish
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1964.9 lumens
Efficiency: N/A
Efficacy: 95.4 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

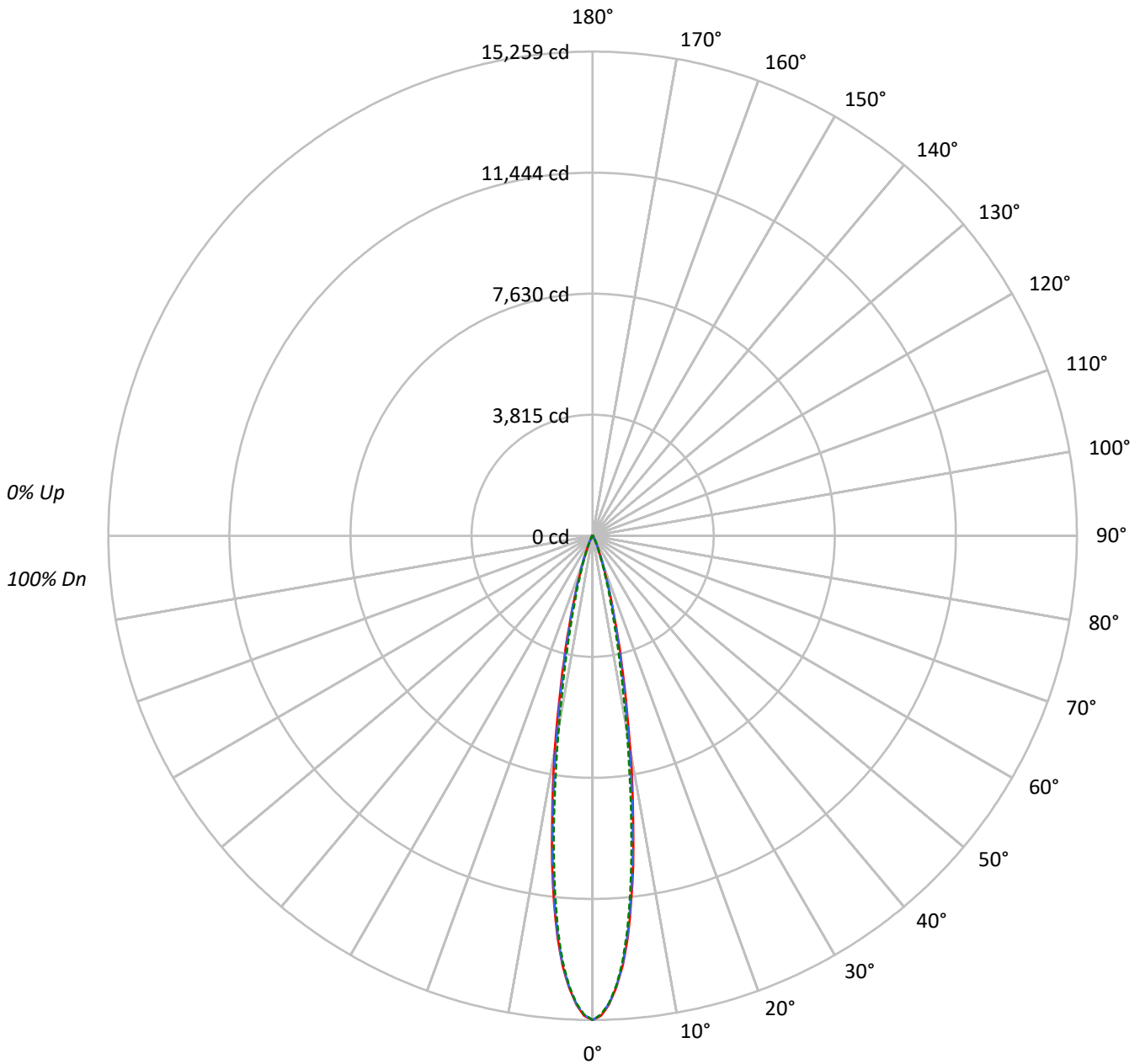
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	7528109	7528109	7528109
5°	6289381	6259270	6185181
10°	3426653	3293144	3082385
15°	1358535	1323905	1136505
20°	456509	487800	403114
25°	158410	171148	152041
30°	57937	63235	61925
35°	37281	43666	33065
40°	19579	23314	24087
45°	17931	13885	13047
50°	10745	7138	5373
55°	0	0	0
60°	6907	6907	2269
65°	5487	1401	0
70°	0	5049	6780
75°	0	11056	0
80°	0	0	0
85°	0	6793	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	997.7	50.8
10°-20°	742.6	37.8
20°-30°	164.2	8.4
30°-40°	36.5	1.9
40°-50°	14.9	0.8
50°-60°	2.5	0.1
60°-70°	2.6	0.1
70°-80°	2.0	0.1
80°-90°	1.9	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°	1904.5	96.9
0°-40°	1941.0	98.8
0°-60°	1958.4	99.7
0°-90°	1964.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1964.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15259	15259	15259	15259	15259	
5°	12700	12647	12639	12591	12489	1012
15°	2660	2652	2592	2350	2225	782
25°	291	325	314	291	279	159
35°	62	62	72	58	55	35
45°	26	21	20	20	19	15
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°	15258.8	15258.8	15258.8	15258.8	15258.8
1°	15133.7	15071.8	15102.2	15119.7	15094.0
2°	14780.8	14706.0	14753.9	14758.6	14732.9
3°	14254.9	14221.0	14236.2	14242.1	14190.6
4°	13581.8	13532.7	13543.2	13530.4	13467.3
5°	12699.5	12646.9	12638.7	12590.8	12489.1
6°	11620.8	11590.4	11535.5	11453.7	11318.2
7°	10465.1	10440.5	10345.9	10198.6	10042.0
8°	9198.3	9198.3	9061.5	8858.2	8679.4
9°	7999.3	7954.8	7780.7	7535.3	7362.4
10°	6840.0	6780.4	6573.5	6324.6	6152.8
11°	5742.6	5679.5	5480.9	5226.1	5067.2
12°	4794.9	4761.0	4606.7	4326.3	4167.3
13°	3994.4	3950.0	3814.4	3549.1	3413.6
14°	3296.7	3240.6	3131.9	2888.8	2756.8
15°	2659.8	2651.6	2592.0	2350.1	2225.1
16°	2173.6	2169.0	2112.9	1876.8	1825.4
17°	1744.8	1769.3	1752.9	1535.6	1477.1
18°	1357.9	1407.0	1418.7	1222.4	1164.0
19°	1092.7	1139.4	1159.3	987.5	938.4
20°	869.5	913.9	929.1	800.5	767.8
22.5°	493.2	552.8	555.1	488.5	454.6
25°	291.0	324.9	314.4	291.0	279.3
26°	244.2	277.0	260.6	253.6	244.2
27°	205.7	227.9	215.0	203.3	211.5
28°	170.6	185.8	173.0	176.5	163.6
29°	135.6	161.3	142.6	146.1	135.6
30°	101.7	125.0	111.0	116.9	108.7
32.5°	76.0	83.0	73.6	83.0	83.0
35°	61.9	61.9	72.5	58.4	54.9
37.5°	28.0	22.2	24.5	19.9	23.4
40°	30.4	33.9	36.2	30.4	37.4
42.5°	21.0	28.0	28.0	18.7	32.7
45°	25.7	21.0	19.9	19.9	18.7
47.5°	11.7	8.2	9.3	10.5	16.4
50°	14.0	5.8	9.3	14.0	7.0
52.5°	4.7	0.0	5.8	0.0	2.3
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	1.2	2.3	0.0
60°	7.0	8.2	7.0	4.7	2.3
62.5°	11.7	2.3	3.5	4.7	0.0
65°	4.7	2.3	1.2	0.0	0.0
67.5°	0.0	0.0	3.5	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	5.8	0.0	0.0
77.5°	2.3	0.0	4.7	0.0	0.0
80°	0.0	2.3	0.0	0.0	0.0
82.5°	0.0	0.0	5.8	4.7	0.0
85°	0.0	1.2	1.2	3.5	0.0
87.5°	0.0	3.5	4.7	1.2	2.3
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	3.5	2.3	4.7
72.5°	0.0	1.2	4.7	7.0	2.3



(END OF REPORT)