

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: P314747

Luminaire Tested: **LDA2B10SP8027D010 PIN1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P314747
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: LDA2B10SP8027D010 PIN1MB
Description: PORTFOLIO 2IN ADJ 1000 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: 1061.5 lumens
Efficiency: N/A
Efficacy: 106.1 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

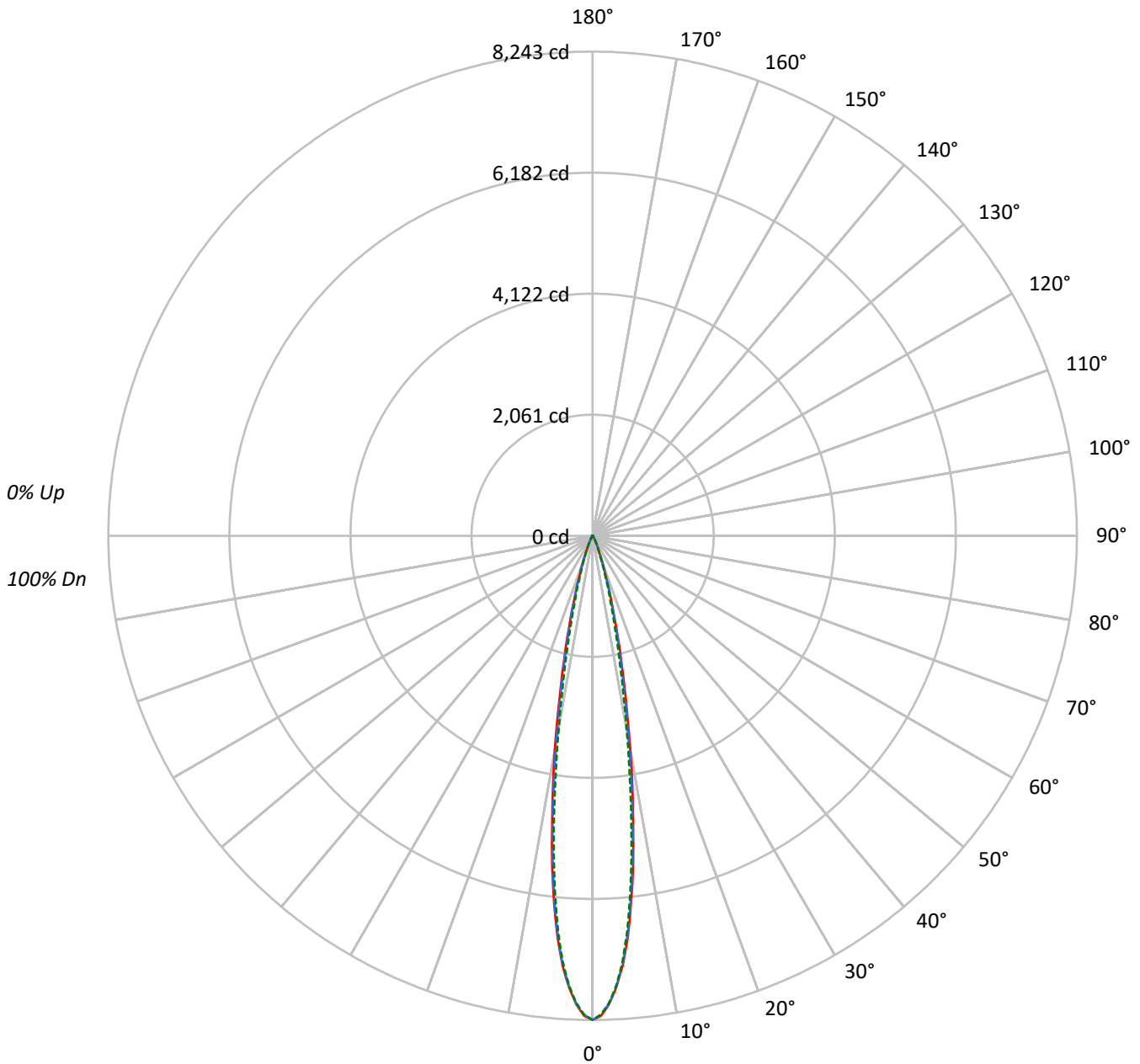
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4066732	4066732	4066732
5°	3397539	3381294	3341279
10°	1851094	1779004	1665133
15°	733868	715174	613940
20°	246604	263510	217780
25°	85574	92433	82145
30°	31276	34181	33441
35°	20176	23549	17888
40°	10562	12623	13010
45°	9698	7466	7047
50°	5833	3914	2917
55°	0	0	0
60°	3750	3750	1283
65°	2918	700	0
70°	0	2741	3606
75°	0	6100	0
80°	0	0	0
85°	0	3396	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	538.9	50.8
10°-20°	401.2	37.8
20°-30°	88.7	8.4
30°-40°	19.7	1.9
40°-50°	8.1	0.8
50°-60°	1.4	0.1
60°-70°	1.4	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°	1028.8	96.9
0°-40°	1048.5	98.8
0°-60°	1057.9	99.7
0°-90°	1061.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1061.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8243	8243	8243	8243	8243	
5°	6860	6832	6828	6802	6747	547
15°	1437	1432	1400	1270	1202	422
25°	157	176	170	157	151	86
35°	34	34	39	32	30	19
45°	14	11	11	11	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°	8242.9	8242.9	8242.9	8242.9	8242.9
1°	8175.3	8141.9	8158.3	8167.8	8153.9
2°	7984.7	7944.3	7970.2	7972.7	7958.8
3°	7700.6	7682.3	7690.5	7693.7	7665.9
4°	7337.0	7310.5	7316.1	7309.2	7275.1
5°	6860.3	6831.9	6827.5	6801.6	6746.7
6°	6277.7	6261.2	6231.6	6187.4	6114.1
7°	5653.3	5640.0	5588.9	5509.4	5424.8
8°	4969.0	4969.0	4895.1	4785.3	4688.7
9°	4321.3	4297.3	4203.2	4070.6	3977.2
10°	3695.0	3662.8	3551.1	3416.6	3323.8
11°	3102.2	3068.1	2960.8	2823.2	2737.3
12°	2590.2	2571.9	2488.6	2337.1	2251.2
13°	2157.8	2133.8	2060.6	1917.3	1844.0
14°	1780.9	1750.6	1691.9	1560.6	1489.2
15°	1436.8	1432.4	1400.2	1269.5	1202.0
16°	1174.2	1171.7	1141.4	1013.9	986.1
17°	942.5	955.8	947.0	829.5	798.0
18°	733.6	760.1	766.4	660.3	628.8
19°	590.3	615.5	626.3	533.4	506.9
20°	469.7	493.7	501.9	432.4	414.8
22.5°	266.4	298.6	299.9	263.9	245.6
25°	157.2	175.5	169.8	157.2	150.9
26°	131.9	149.6	140.8	137.0	131.9
27°	111.1	123.1	116.2	109.8	114.3
28°	92.2	100.4	93.4	95.3	88.4
29°	73.2	87.1	77.0	78.9	73.2
30°	54.9	67.5	60.0	63.1	58.7
32.5°	41.0	44.8	39.8	44.8	44.8
35°	33.5	33.5	39.1	31.6	29.7
37.5°	15.2	12.0	13.3	10.7	12.6
40°	16.4	18.3	19.6	16.4	20.2
42.5°	11.4	15.2	15.2	10.1	17.7
45°	13.9	11.4	10.7	10.7	10.1
47.5°	6.3	4.4	5.1	5.7	8.8
50°	7.6	3.2	5.1	7.6	3.8
52.5°	2.5	0.0	3.2	0.0	1.3
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.6	1.3	0.0
60°	3.8	4.4	3.8	2.5	1.3
62.5°	6.3	1.3	1.9	2.5	0.0
65°	2.5	1.3	0.6	0.0	0.0
67.5°	0.0	0.0	1.9	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	3.2	0.0	0.0
77.5°	1.3	0.0	2.5	0.0	0.0
80°	0.0	1.3	0.0	0.0	0.0
82.5°	0.0	0.0	3.2	2.5	0.0
85°	0.0	0.6	0.6	1.9	0.0
87.5°	0.0	1.9	2.5	0.6	1.3
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	1.9	1.3	2.5
72.5°	0.0	0.6	2.5	3.8	1.3



(END OF REPORT)