

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: P281691

Luminaire Tested: **LDA2B10D2WD010 EU2B10SP15D2W 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P281691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-10)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B10D2WD010 EU2B10SP15D2W 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ PinHole, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 809.5 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.29
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

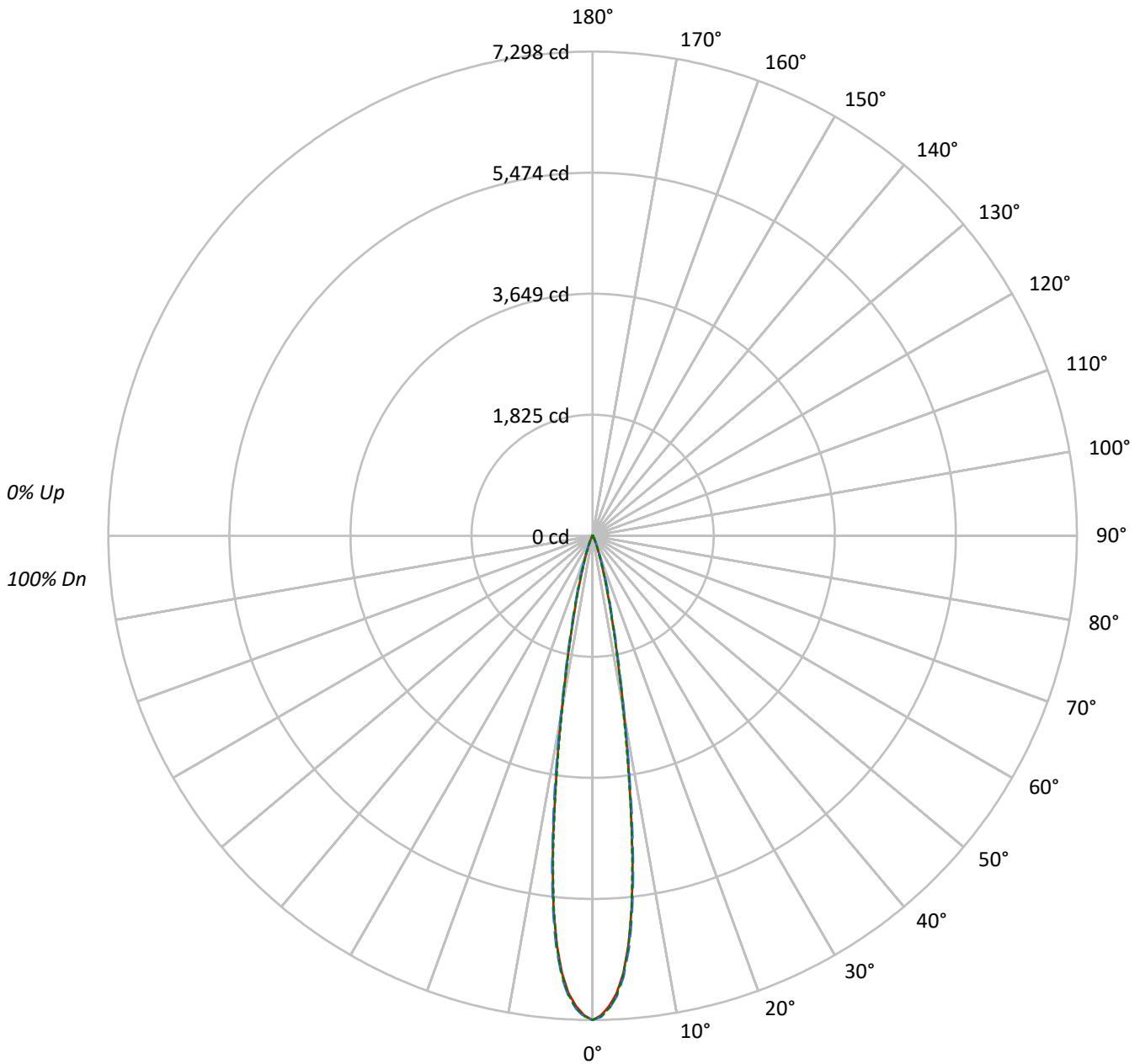
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98						98													
2	113	110	107	105	111	108	106	104	105	103	102	102	101	99	99	98	97	96						96													
3	110	106	103	101	108	105	102	100	102	100	98	100	98	97	98	97	95	94						94													
4	107	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	93						93													
5	105	100	97	95	104	100	96	94	98	95	93	97	94	93	95	93	92	91						91													
6	103	98	95	92	102	97	94	92	96	93	91	95	93	91	94	92	90	89						89													
7	101	96	93	90	100	95	92	90	94	92	90	93	91	89	93	90	89	88						88													
8	99	94	91	89	98	94	91	88	93	90	88	92	90	88	91	89	87	87						87													
9	98	92	89	87	97	92	89	87	91	89	87	91	88	86	90	88	86	85						85													
10	96	91	88	86	95	90	88	86	90	87	85	89	87	85	89	87	85	84						84													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3600554	3600554	3600554
5°	3065971	3097914	3071765
10°	1353578	1384538	1321967
15°	410707	471079	417193
20°	122908	163860	137346
25°	47850	47142	50354
30°	21306	19255	20281
35°	4336	3794	3794
40°	0	322	1159
45°	3768	3140	5652
50°	0	1075	3454
55°	0	0	1548
60°	0	493	1776
65°	0	0	1051
70°	0	2596	5193
75°	0	0	0
80°	0	0	0
85°	0	2830	10189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.1	58.4
10°-20°	270.2	33.4
20°-30°	51.3	6.3
30°-40°	9.3	1.2
40°-50°	2.4	0.3
50°-60°	1.8	0.2
60°-70°	0.3	0.0
70°-80°	0.4	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°	794.6	98.2
0°-40°	803.9	99.3
0°-60°	808.2	99.8
0°-90°	809.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	809.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7298	7298	7298	7298	7298	
5°	6191	6231	6255	6244	6202	470
15°	804	874	922	866	817	256
25°	88	95	87	99	92	46
35°	7	9	6	8	6	10
45°	5	9	4	5	8	3
55°	0	0	0	0	2	1
65°	0	0	0	0	1	0
75°	0	0	0	0	0	0
85°	0	0	0	0	2	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7298.0	7298.0	7298.0	7298.0	7298.0
1°	7229.0	7236.7	7252.9	7269.6	7243.4
2°	7093.7	7112.2	7135.2	7150.5	7122.1
3°	6904.3	6930.0	6954.3	6957.5	6930.9
4°	6611.6	6643.2	6668.9	6665.7	6632.3
5°	6190.8	6231.4	6255.3	6244.5	6202.5
6°	5634.7	5674.0	5704.6	5673.5	5617.1
7°	4942.0	4987.1	5019.6	4966.4	4897.4
8°	4139.2	4202.4	4234.8	4160.4	4089.6
9°	3378.9	3422.6	3455.5	3374.3	3302.2
10°	2701.9	2782.2	2763.7	2701.0	2638.8
11°	2125.1	2197.7	2200.9	2158.5	2097.6
12°	1663.7	1740.4	1759.8	1727.3	1673.2
13°	1314.7	1371.9	1403.9	1370.6	1319.2
14°	1046.3	1097.3	1138.3	1095.0	1043.6
15°	804.1	874.5	922.3	866.4	816.8
16°	639.5	697.7	754.5	690.9	651.2
17°	491.1	543.0	601.6	543.9	511.4
18°	388.8	429.8	494.3	434.8	406.3
19°	304.4	335.5	395.5	343.2	320.2
20°	234.1	268.3	312.1	276.5	261.6
22.5°	141.6	160.6	173.2	162.4	154.7
25°	87.9	94.7	86.6	98.8	92.5
26°	76.7	81.6	79.8	87.9	80.3
27°	61.3	67.6	62.7	69.0	66.7
28°	55.9	63.6	53.7	61.3	57.7
29°	39.2	42.4	38.3	41.0	41.0
30°	37.4	38.3	33.8	37.0	35.6
32.5°	29.3	27.5	22.5	23.9	23.0
35°	7.2	9.0	6.3	7.7	6.3
37.5°	10.8	9.9	11.7	11.3	10.8
40°	0.0	0.5	0.5	0.5	1.8
42.5°	8.1	5.0	4.5	3.2	5.4
45°	5.4	8.6	4.5	5.0	8.1
47.5°	0.0	0.5	0.0	0.9	0.9
50°	0.0	0.9	1.4	1.8	4.5
52.5°	0.9	5.4	2.7	5.0	7.2
55°	0.0	0.5	0.0	0.5	1.8
57.5°	1.8	0.9	1.8	1.8	8.1
60°	0.0	0.9	0.5	0.5	1.8
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.9
67.5°	0.0	0.5	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.5	0.0	0.0
80°	0.0	0.5	0.0	0.0	0.0
82.5°	0.0	0.5	0.9	1.4	0.9
85°	0.0	0.5	0.5	0.5	1.8
87.5°	0.0	0.9	1.4	0.0	0.9
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







70°	0.0	1.4	1.8	0.0	3.6
72.5°	0.0	2.3	0.5	0.5	0.0



(END OF REPORT)