

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: P281683

Luminaire Tested: **LDA2B109050D010 EU2B10SP159050 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P281683
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: LDA2B109050D010 EU2B10SP159050 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ PinHole, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 950.5 lumens
Efficiency: N/A
Efficacy: 95.1 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

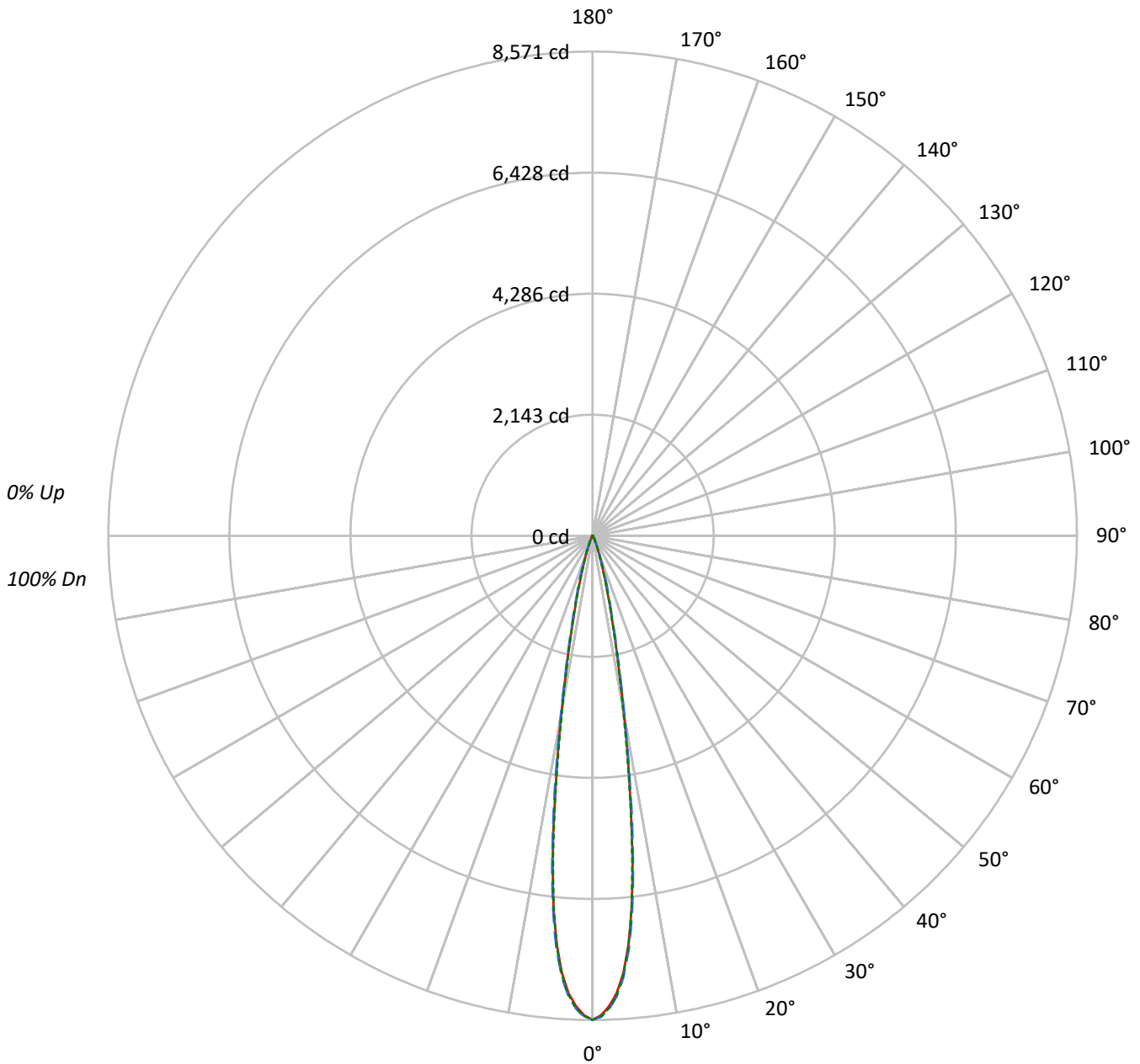
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	99	99	98	97	96																			
3	110	106	103	101	108	105	102	100	102	100	98	100	98	97	98	97	95	94																			
4	107	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	93																			
5	105	100	97	95	104	100	96	94	98	95	93	97	94	93	95	93	92	91																			
6	103	98	95	92	102	97	94	92	96	93	91	95	93	91	94	92	90	89																			
7	101	96	93	90	100	95	92	90	94	92	90	93	91	89	93	90	89	88																			
8	99	94	91	89	98	94	91	88	93	90	88	92	90	88	91	89	88	87																			
9	98	92	89	87	97	92	89	87	91	89	87	91	88	86	90	88	86	85																			
10	96	91	88	86	95	90	88	86	90	87	85	89	87	85	89	87	85	84																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4228407	4228407	4228407
5°	3600590	3638129	3607424
10°	1589636	1625957	1552464
15°	482316	553210	489926
20°	144329	192422	161288
25°	56233	55362	59118
30°	25066	22616	23813
35°	5119	4457	4457
40°	0	322	1352
45°	4465	3698	6628
50°	0	1228	4068
55°	0	0	1806
60°	0	493	2072
65°	0	0	1284
70°	0	3029	6058
75°	0	0	0
80°	0	0	0
85°	0	2830	11887



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.6	58.4
10°-20°	317.3	33.4
20°-30°	60.2	6.3
30°-40°	10.9	1.2
40°-50°	2.8	0.3
50°-60°	2.1	0.2
60°-70°	0.3	0.0
70°-80°	0.5	0.0
80°-90°	0.7	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°	933.1	98.2
0°-40°	944.1	99.3
0°-60°	949.1	99.8
0°-90°	950.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	950.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8571	8571	8571	8571	8571	
5°	7270	7318	7346	7333	7284	552
15°	944	1027	1083	1017	959	300
25°	103	111	102	116	109	54
35°	8	11	7	9	7	12
45°	6	10	5	6	10	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°	8570.6	8570.6	8570.6	8570.6	8570.6
1°	8489.6	8498.6	8517.6	8537.2	8506.5
2°	8330.7	8352.4	8379.4	8397.4	8364.0
3°	8108.2	8138.4	8167.0	8170.7	8139.5
4°	7764.5	7801.6	7831.7	7828.0	7788.8
5°	7270.3	7318.0	7346.1	7333.4	7284.1
6°	6617.3	6663.4	6699.4	6662.8	6596.6
7°	5803.8	5856.7	5894.9	5832.4	5751.3
8°	4861.0	4935.2	4973.3	4885.9	4802.7
9°	3968.0	4019.4	4058.1	3962.7	3878.0
10°	3173.1	3267.3	3245.6	3172.0	3098.9
11°	2495.6	2580.9	2584.6	2534.8	2463.3
12°	1953.8	2043.9	2066.6	2028.5	1965.0
13°	1543.9	1611.2	1648.8	1609.6	1549.2
14°	1228.8	1288.6	1336.8	1286.0	1225.6
15°	944.3	1027.0	1083.1	1017.4	959.2
16°	751.0	819.3	886.1	811.4	764.8
17°	576.8	637.7	706.5	638.7	600.6
18°	456.5	504.7	580.5	510.6	477.2
19°	357.5	394.0	464.5	403.1	376.0
20°	274.9	315.1	366.5	324.7	307.2
22.5°	166.3	188.6	203.4	190.7	181.7
25°	103.3	111.2	101.7	116.0	108.6
26°	90.0	95.9	93.7	103.3	94.3
27°	72.0	79.4	73.6	81.0	78.4
28°	65.7	74.7	63.0	72.0	67.8
29°	46.1	49.8	45.0	48.2	48.2
30°	44.0	45.0	39.7	43.4	41.8
32.5°	34.4	32.3	26.5	28.1	27.0
35°	8.5	10.6	7.4	9.0	7.4
37.5°	12.7	11.7	13.8	13.2	12.7
40°	0.0	0.5	0.5	0.5	2.1
42.5°	9.5	5.8	5.3	3.7	6.4
45°	6.4	10.1	5.3	5.8	9.5
47.5°	0.0	0.5	0.0	1.1	1.1
50°	0.0	1.1	1.6	2.1	5.3
52.5°	1.1	6.4	3.2	5.8	8.5
55°	0.0	0.5	0.0	0.5	2.1
57.5°	2.1	1.1	2.1	2.1	9.5
60°	0.0	1.1	0.5	0.5	2.1
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	1.1
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	1.1	1.6	1.1
85°	0.0	0.5	0.5	0.5	2.1
87.5°	0.0	1.1	1.6	0.0	1.1
90°	0.0	0.0	0.0	0.0	0.0



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







70°	0.0	1.6	2.1	0.0	4.2
72.5°	0.0	2.6	0.5	0.5	0.0



(END OF REPORT)