

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: P281675

Luminaire Tested: **LDA2B109030D010 EU2B10SP159030 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P281675
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: LDA2B109030D010 EU2B10SP159030 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ PinHole, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 872.7 lumens
Efficiency: N/A
Efficacy: 87.3 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

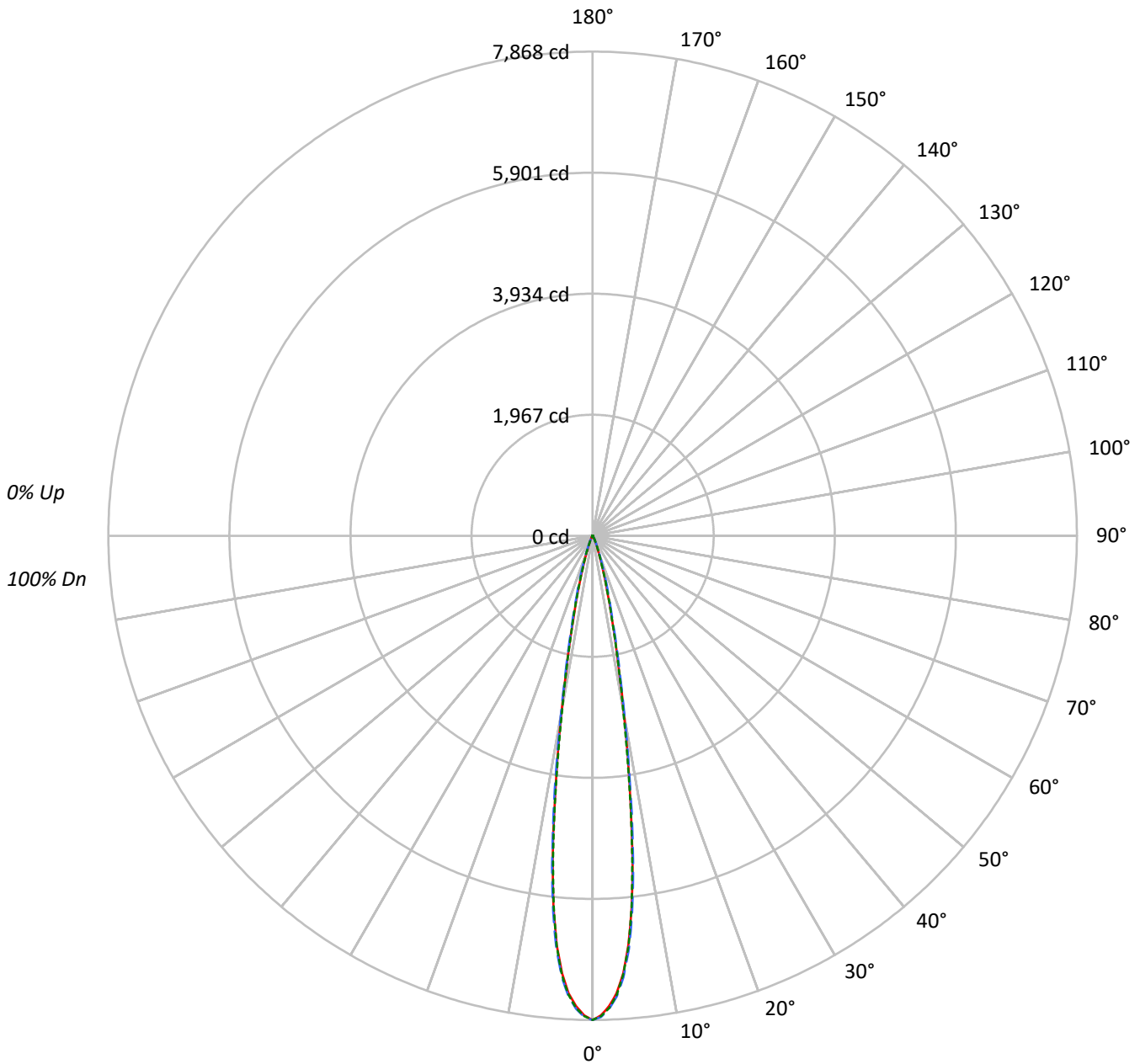
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3881968	3881968	3881968
5°	3305621	3340040	3311861
10°	1459384	1492748	1425267
15°	442834	507905	449780
20°	132516	176671	148057
25°	51606	50844	54273
30°	23015	20794	21876
35°	4698	4096	4096
40°	0	322	1224
45°	4047	3419	6140
50°	0	1151	3761
55°	0	0	1634
60°	0	493	1875
65°	0	0	1167
70°	0	2741	5626
75°	0	0	0
80°	0	0	0
85°	0	2830	10755



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.1	58.4
10°-20°	291.3	33.4
20°-30°	55.3	6.3
30°-40°	10.1	1.2
40°-50°	2.6	0.3
50°-60°	2.0	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°	856.7	98.2
0°-40°	866.7	99.3
0°-60°	871.3	99.8
0°-90°	872.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	872.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7868	7868	7868	7868	7868	
5°	6675	6718	6744	6732	6687	507
15°	867	943	994	934	881	276
25°	95	102	93	106	100	50
35°	8	10	7	8	7	11
45°	6	9	5	5	9	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°	7868.4	7868.4	7868.4	7868.4	7868.4
1°	7794.0	7802.3	7819.8	7837.7	7809.5
2°	7648.1	7668.0	7692.8	7709.4	7678.7
3°	7443.9	7471.6	7497.9	7501.3	7472.6
4°	7128.3	7162.4	7190.1	7186.7	7150.7
5°	6674.7	6718.4	6744.2	6732.5	6687.3
6°	6075.1	6117.4	6150.5	6116.9	6056.2
7°	5328.2	5376.9	5411.9	5354.5	5280.1
8°	4462.7	4530.8	4565.8	4485.6	4409.3
9°	3642.9	3690.1	3725.6	3638.1	3560.3
10°	2913.1	2999.6	2979.7	2912.1	2845.0
11°	2291.2	2369.5	2372.9	2327.2	2261.5
12°	1793.7	1876.4	1897.3	1862.3	1804.0
13°	1417.4	1479.2	1513.7	1477.7	1422.3
14°	1128.1	1183.0	1227.3	1180.6	1125.2
15°	867.0	942.8	994.4	934.1	880.6
16°	689.5	752.2	813.5	744.9	702.1
17°	529.5	585.4	648.6	586.4	551.4
18°	419.1	463.4	532.9	468.7	438.1
19°	328.2	361.8	426.4	370.0	345.2
20°	252.4	289.3	336.5	298.1	282.0
22.5°	152.7	173.1	186.7	175.0	166.8
25°	94.8	102.1	93.4	106.5	99.7
26°	82.7	88.0	86.1	94.8	86.6
27°	66.1	72.9	67.6	74.4	72.0
28°	60.3	68.6	57.9	66.1	62.2
29°	42.3	45.7	41.3	44.2	44.2
30°	40.4	41.3	36.5	39.9	38.4
32.5°	31.6	29.7	24.3	25.8	24.8
35°	7.8	9.7	6.8	8.3	6.8
37.5°	11.7	10.7	12.6	12.2	11.7
40°	0.0	0.5	0.5	0.5	1.9
42.5°	8.8	5.3	4.9	3.4	5.8
45°	5.8	9.2	4.9	5.3	8.8
47.5°	0.0	0.5	0.0	1.0	1.0
50°	0.0	1.0	1.5	1.9	4.9
52.5°	1.0	5.8	2.9	5.3	7.8
55°	0.0	0.5	0.0	0.5	1.9
57.5°	1.9	1.0	1.9	1.9	8.8
60°	0.0	1.0	0.5	0.5	1.9
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	1.0
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	1.0	1.5	1.0
85°	0.0	0.5	0.5	0.5	1.9
87.5°	0.0	1.0	1.5	0.0	1.0
90°	0.0	0.0	0.0	0.0	0.0



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







70°	0.0	1.5	1.9	0.0	3.9
72.5°	0.0	2.4	0.5	0.5	0.0



(END OF REPORT)