

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: P282332

Luminaire Tested: **LDA2B159035D010 EU2B15NFL259035 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282332
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B159035D010 EU2B15NFL259035 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1105.5 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

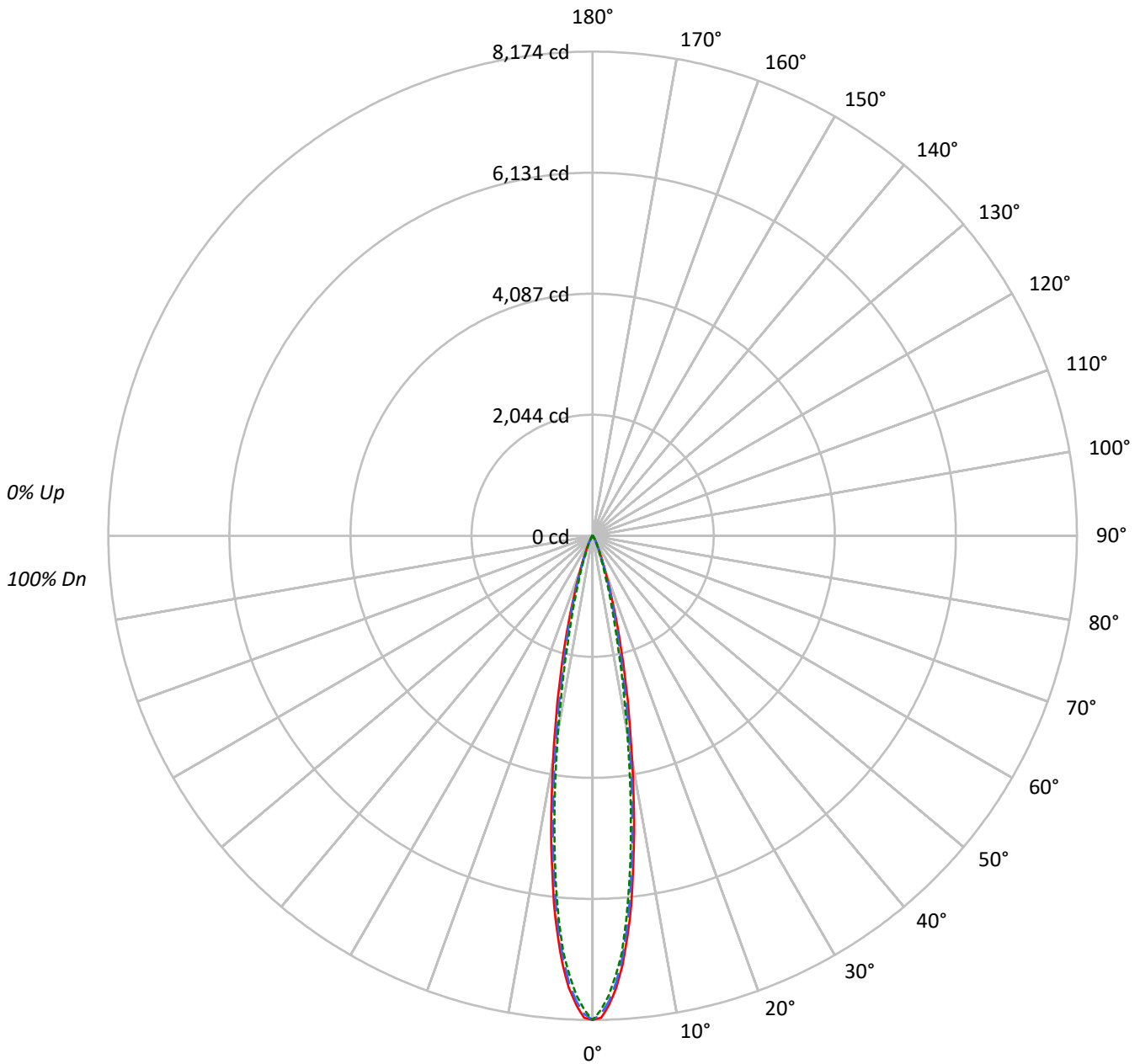
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97																			
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95																			
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92																			
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90																			
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88																			
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86																			
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84																			
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83																			
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81																			
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4032937	4032937	4032937
5°	3355839	3294329	3227818
10°	1922182	1803752	1683419
15°	854920	759304	636312
20°	310132	291599	231063
25°	119107	111214	95754
30°	51386	47797	42385
35°	24272	24272	20116
40°	12172	12559	10176
45°	7047	6628	6140
50°	4835	4375	4375
55°	3785	2752	3269
60°	3158	1875	2467
65°	2218	1518	2218
70°	1875	865	1875
75°	1144	1144	1144
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	531.7	48.1
10°-20°	430.2	38.9
20°-30°	103.8	9.4
30°-40°	26.4	2.4
40°-50°	7.9	0.7
50°-60°	3.4	0.3
60°-70°	1.6	0.1
70°-80°	0.5	0.0
80°-90°	0.0	0.0
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°	1065.7	96.4
0°-40°	1092.1	98.8
0°-60°	1103.4	99.8
0°-90°	1105.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1105.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8174	8174	8174	8174	8174	
5°	6776	6714	6652	6594	6518	548
15°	1674	1634	1487	1339	1246	477
25°	219	220	204	185	176	113
35°	40	41	40	37	33	28
45°	10	10	10	9	9	9
55°	4	4	3	3	4	4
65°	2	2	1	1	2	2
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8174.4	8174.4	8174.4	8174.4	8174.4
1°	8137.9	8081.1	8074.2	8109.5	8005.5
2°	7929.8	7889.5	7866.1	7887.0	7769.1
3°	7644.2	7605.1	7562.9	7563.5	7431.8
4°	7255.2	7224.3	7153.1	7131.7	7055.4
5°	6776.1	6713.7	6651.9	6593.9	6517.6
6°	6246.5	6165.8	6077.6	5991.2	5913.0
7°	5623.6	5570.0	5453.4	5335.5	5269.3
8°	5037.9	4951.6	4815.4	4667.9	4611.8
9°	4408.1	4346.3	4190.0	4018.5	3962.4
10°	3836.9	3772.6	3600.5	3409.5	3360.3
11°	3301.0	3240.5	3061.5	2861.0	2808.7
12°	2847.8	2762.0	2556.5	2382.5	2331.4
13°	2396.3	2337.7	2142.9	1970.8	1871.8
14°	2012.4	1963.9	1787.3	1636.0	1531.4
15°	1673.8	1634.1	1486.6	1339.1	1245.8
16°	1373.1	1348.5	1231.9	1089.4	1013.1
17°	1114.0	1091.3	1016.9	885.8	821.5
18°	899.7	896.5	834.7	721.2	663.9
19°	740.2	738.9	682.1	587.0	539.7
20°	590.7	598.9	555.4	472.2	440.1
21°	481.7	486.1	451.4	388.4	359.4
22°	392.1	395.3	372.6	320.9	305.1
23°	321.5	323.4	304.5	266.1	252.2
24°	264.8	266.1	249.0	221.9	209.9
25°	218.8	220.0	204.3	185.4	175.9
26°	181.6	182.8	169.0	155.7	146.3
27°	150.7	153.2	139.3	131.1	121.0
28°	128.6	129.2	116.6	111.6	102.1
29°	105.3	109.1	98.4	93.9	87.0
30°	90.2	92.0	83.9	80.7	74.4
32.5°	59.9	61.2	57.4	54.8	49.8
35°	40.3	41.0	40.3	36.6	33.4
37.5°	27.7	27.7	28.4	24.0	22.7
40°	18.9	18.9	19.5	16.4	15.8
42.5°	13.9	13.9	13.2	11.3	11.3
45°	10.1	10.1	9.5	8.8	8.8
47.5°	8.2	7.6	6.9	6.9	6.9
50°	6.3	6.3	5.7	5.0	5.7
52.5°	5.0	5.0	4.4	4.4	4.4
55°	4.4	3.8	3.2	3.2	3.8
57.5°	3.2	3.2	2.5	2.5	3.2
60°	3.2	2.5	1.9	2.5	2.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.9	1.3	1.3	1.3	1.3
70°	1.3	1.3	0.6	0.6	1.3
72.5°	0.6	0.6	0.6	0.6	0.6
75°	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.0	0.0	0.6
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	2.5	1.9	1.9	1.9	1.9
65°	1.9	1.9	1.3	1.3	1.9



(END OF REPORT)