

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: P282351

Luminaire Tested: **LDA2B159727D010 EU2B15NFL259727 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282351
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: LDA2B159727D010 EU2B15NFL259727 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 908.6 lumens
Efficiency: N/A
Efficacy: 64.4 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

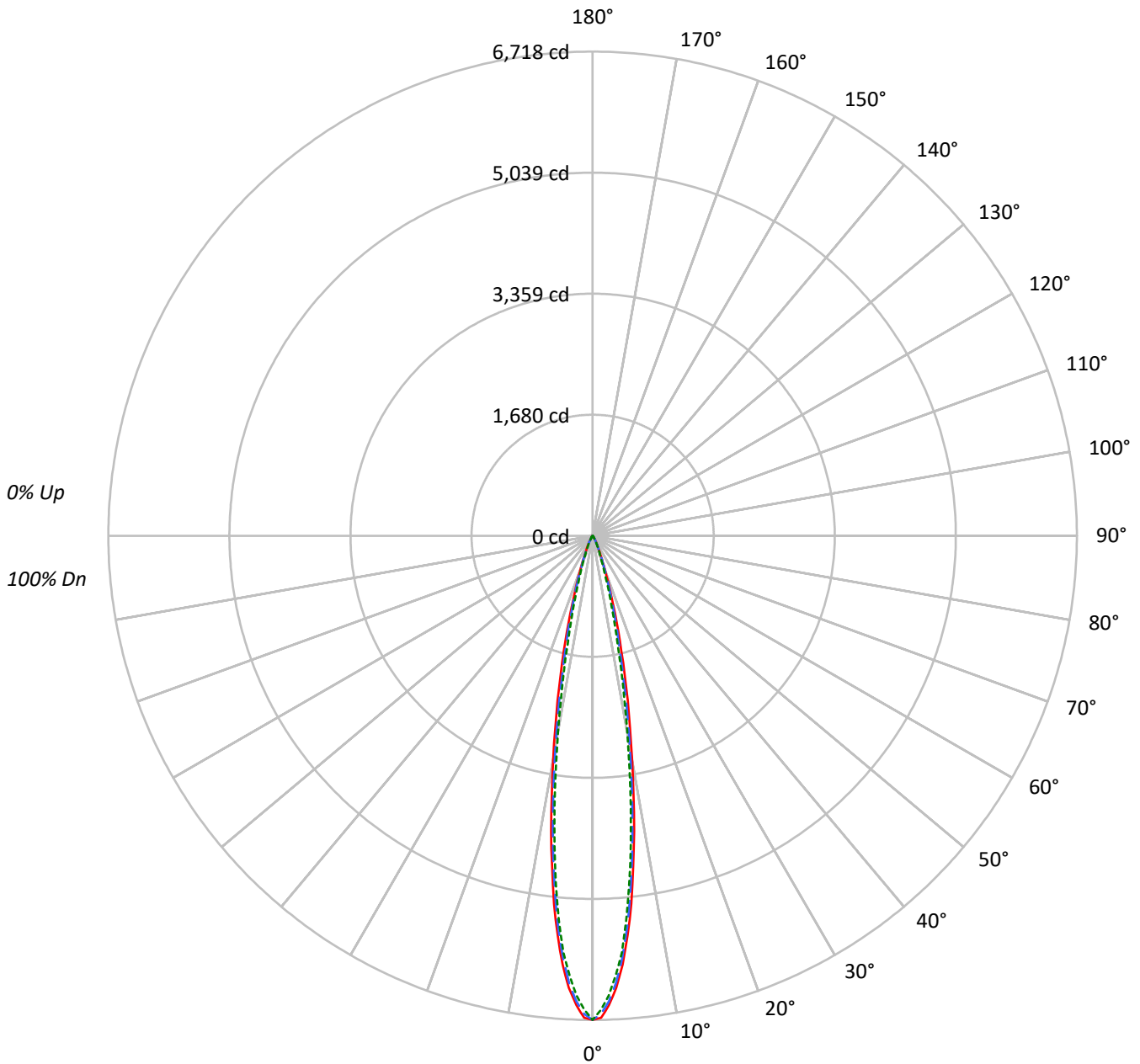
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3314404	3314404	3314404
5°	2757928	2707363	2652738
10°	1579717	1482378	1383486
15°	702609	624002	522922
20°	254899	239674	189901
25°	97877	91399	78715
30°	42214	39251	34808
35°	19996	19996	16563
40°	9983	10369	8372
45°	5791	5442	5093
50°	3991	3607	3607
55°	3097	2236	2666
60°	2565	1579	2072
65°	1868	1167	1868
70°	1442	721	1442
75°	953	953	953
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.9	48.1
10°-20°	353.6	38.9
20°-30°	85.3	9.4
30°-40°	21.7	2.4
40°-50°	6.5	0.7
50°-60°	2.8	0.3
60°-70°	1.3	0.1
70°-80°	0.4	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°	875.8	96.4
0°-40°	897.5	98.8
0°-60°	906.8	99.8
0°-90°	908.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	908.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6718	6718	6718	6718	6718	
5°	5569	5518	5467	5419	5356	450
15°	1376	1343	1222	1100	1024	392
25°	180	181	168	152	145	93
35°	33	34	33	30	28	23
45°	8	8	8	7	7	7
55°	4	3	3	3	3	3
65°	2	2	1	1	2	2
75°	0	0	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6718.0	6718.0	6718.0	6718.0	6718.0
1°	6687.9	6641.3	6635.6	6664.6	6579.1
2°	6517.0	6483.8	6464.6	6481.7	6384.8
3°	6282.2	6250.1	6215.4	6215.9	6107.6
4°	5962.6	5937.2	5878.6	5861.0	5798.3
5°	5568.8	5517.5	5466.7	5419.1	5356.4
6°	5133.6	5067.2	4994.7	4923.7	4859.5
7°	4621.7	4577.6	4481.8	4384.9	4330.5
8°	4140.3	4069.3	3957.4	3836.2	3790.1
9°	3622.7	3571.9	3443.4	3302.5	3256.4
10°	3153.3	3100.5	2959.0	2802.0	2761.6
11°	2712.9	2663.2	2516.0	2351.2	2308.2
12°	2340.4	2269.9	2101.0	1958.0	1916.0
13°	1969.4	1921.2	1761.1	1619.7	1538.3
14°	1653.8	1614.0	1468.9	1344.5	1258.5
15°	1375.6	1343.0	1221.7	1100.5	1023.8
16°	1128.5	1108.3	1012.4	895.3	832.6
17°	915.5	896.9	835.7	728.0	675.1
18°	739.4	736.8	686.0	592.7	545.6
19°	608.3	607.2	560.6	482.4	443.5
20°	485.5	492.2	456.5	388.1	361.7
21°	395.8	399.5	371.0	319.2	295.3
22°	322.3	324.9	306.2	263.7	250.8
23°	264.2	265.8	250.3	218.6	207.2
24°	217.6	218.6	204.7	182.4	172.5
25°	179.8	180.8	167.9	152.3	144.6
26°	149.2	150.3	138.9	128.0	120.2
27°	123.8	125.9	114.5	107.8	99.5
28°	105.7	106.2	95.9	91.7	83.9
29°	86.5	89.6	80.8	77.2	71.5
30°	74.1	75.6	68.9	66.3	61.1
32.5°	49.2	50.3	47.1	45.1	40.9
35°	33.2	33.7	33.2	30.1	27.5
37.5°	22.8	22.8	23.3	19.7	18.7
40°	15.5	15.5	16.1	13.5	13.0
42.5°	11.4	11.4	10.9	9.3	9.3
45°	8.3	8.3	7.8	7.3	7.3
47.5°	6.7	6.2	5.7	5.7	5.7
50°	5.2	5.2	4.7	4.1	4.7
52.5°	4.1	4.1	3.6	3.6	3.6
55°	3.6	3.1	2.6	2.6	3.1
57.5°	2.6	2.6	2.1	2.1	2.6
60°	2.6	2.1	1.6	2.1	2.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.6	1.0	1.0	1.0	1.0
70°	1.0	1.0	0.5	0.5	1.0
72.5°	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.0	0.0	0.5
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°	2.1	1.6	1.6	1.6	1.6
65°	1.6	1.6	1.0	1.0	1.6



(END OF REPORT)