

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: P282738

Luminaire Tested: **LDA2B159727D010 EU2B15NFL259727 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282738
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 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 835.0 lumens
Efficiency: N/A
Efficacy: 59.2 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

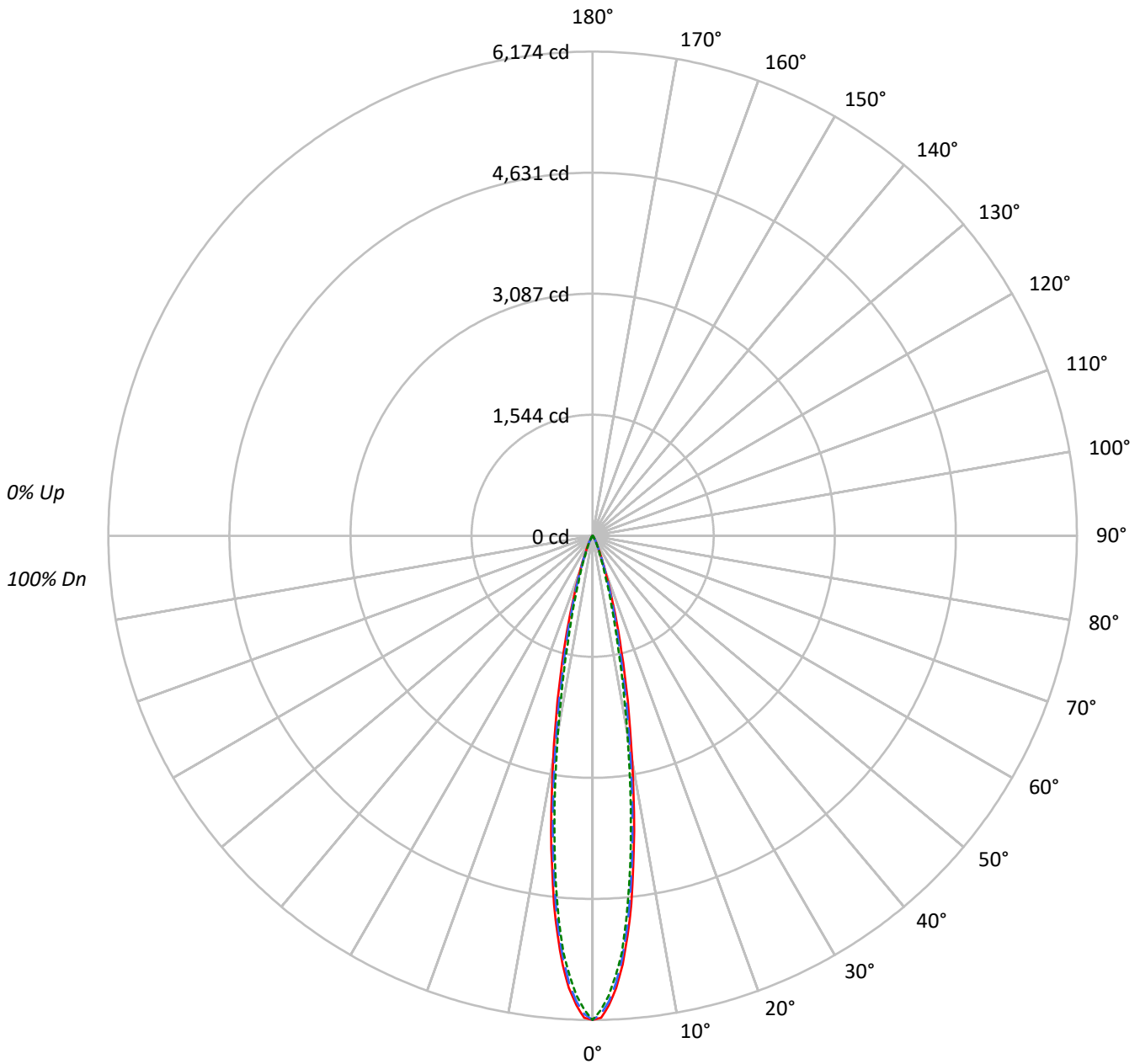
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				100															
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97				97															
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95				95															
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92				92															
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90				90															
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88				88															
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86				86															
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84				84															
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83				83															
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81				81															
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79				79															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3046065	3046065	3046065
5°	2534671	2488167	2437949
10°	1451819	1362345	1271469
15°	645761	573488	480579
20°	234266	220248	174518
25°	89929	83995	72346
30°	38796	36061	32016
35°	18370	18370	15178
40°	9210	9532	7664
45°	5303	4954	4675
50°	3684	3300	3300
55°	2838	2064	2494
60°	2368	1381	1875
65°	1634	1167	1634
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°	401.6	48.1
10°-20°	325.0	38.9
20°-30°	78.4	9.4
30°-40°	20.0	2.4
40°-50°	6.0	0.7
50°-60°	2.5	0.3
60°-70°	1.2	0.1
70°-80°	0.4	0.1
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°	804.9	96.4
0°-40°	824.9	98.8
0°-60°	833.4	99.8
0°-90°	835.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	835.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6174	6174	6174	6174	6174	
5°	5118	5071	5024	4980	4923	414
15°	1264	1234	1123	1011	941	360
25°	165	166	154	140	133	85
35°	30	31	30	28	25	21
45°	8	8	7	7	7	6
55°	3	3	2	2	3	3
65°	1	1	1	1	1	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°	6174.1	6174.1	6174.1	6174.1	6174.1
1°	6146.5	6103.6	6098.4	6125.1	6046.5
2°	5989.4	5958.9	5941.3	5957.0	5867.9
3°	5773.6	5744.1	5712.2	5712.7	5613.2
4°	5479.8	5456.5	5402.7	5386.5	5328.9
5°	5118.0	5070.8	5024.1	4980.3	4922.7
6°	4718.0	4657.0	4590.3	4525.1	4466.1
7°	4247.5	4207.0	4118.9	4029.9	3979.9
8°	3805.1	3739.9	3637.0	3525.6	3483.2
9°	3329.4	3282.8	3164.7	3035.2	2992.8
10°	2898.0	2849.4	2719.4	2575.2	2538.0
11°	2493.3	2447.6	2312.3	2160.9	2121.4
12°	2150.9	2086.1	1930.9	1799.5	1760.9
13°	1809.9	1765.7	1618.5	1488.5	1413.8
14°	1520.0	1483.3	1350.0	1235.7	1156.6
15°	1264.3	1234.3	1122.8	1011.4	940.9
16°	1037.1	1018.5	930.5	822.8	765.2
17°	841.4	824.3	768.1	669.0	620.5
18°	679.5	677.1	630.5	544.7	501.4
19°	559.0	558.1	515.2	443.3	407.6
20°	446.2	452.4	419.5	356.7	332.4
21°	363.8	367.1	340.9	293.3	271.4
22°	296.2	298.6	281.4	242.4	230.5
23°	242.9	244.3	230.0	200.9	190.5
24°	200.0	200.9	188.1	167.6	158.6
25°	165.2	166.2	154.3	140.0	132.9
26°	137.1	138.1	127.6	117.6	110.5
27°	113.8	115.7	105.2	99.0	91.4
28°	97.1	97.6	88.1	84.3	77.1
29°	79.5	82.4	74.3	71.0	65.7
30°	68.1	69.5	63.3	61.0	56.2
32.5°	45.2	46.2	43.3	41.4	37.6
35°	30.5	31.0	30.5	27.6	25.2
37.5°	21.0	21.0	21.4	18.1	17.1
40°	14.3	14.3	14.8	12.4	11.9
42.5°	10.5	10.5	10.0	8.6	8.6
45°	7.6	7.6	7.1	6.7	6.7
47.5°	6.2	5.7	5.2	5.2	5.2
50°	4.8	4.8	4.3	3.8	4.3
52.5°	3.8	3.8	3.3	3.3	3.3
55°	3.3	2.9	2.4	2.4	2.9
57.5°	2.4	2.4	1.9	1.9	2.4
60°	2.4	1.9	1.4	1.9	1.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.4	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°	1.9	1.4	1.4	1.4	1.4
65°	1.4	1.4	1.0	1.0	1.4



(END OF REPORT)