

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: P282734

Luminaire Tested: **LDA2B159050D010 EU2B15NFL259050 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282734
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: LDA2B159050D010 EU2B15NFL259050 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1069.6 lumens
Efficiency: N/A
Efficacy: 75.9 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

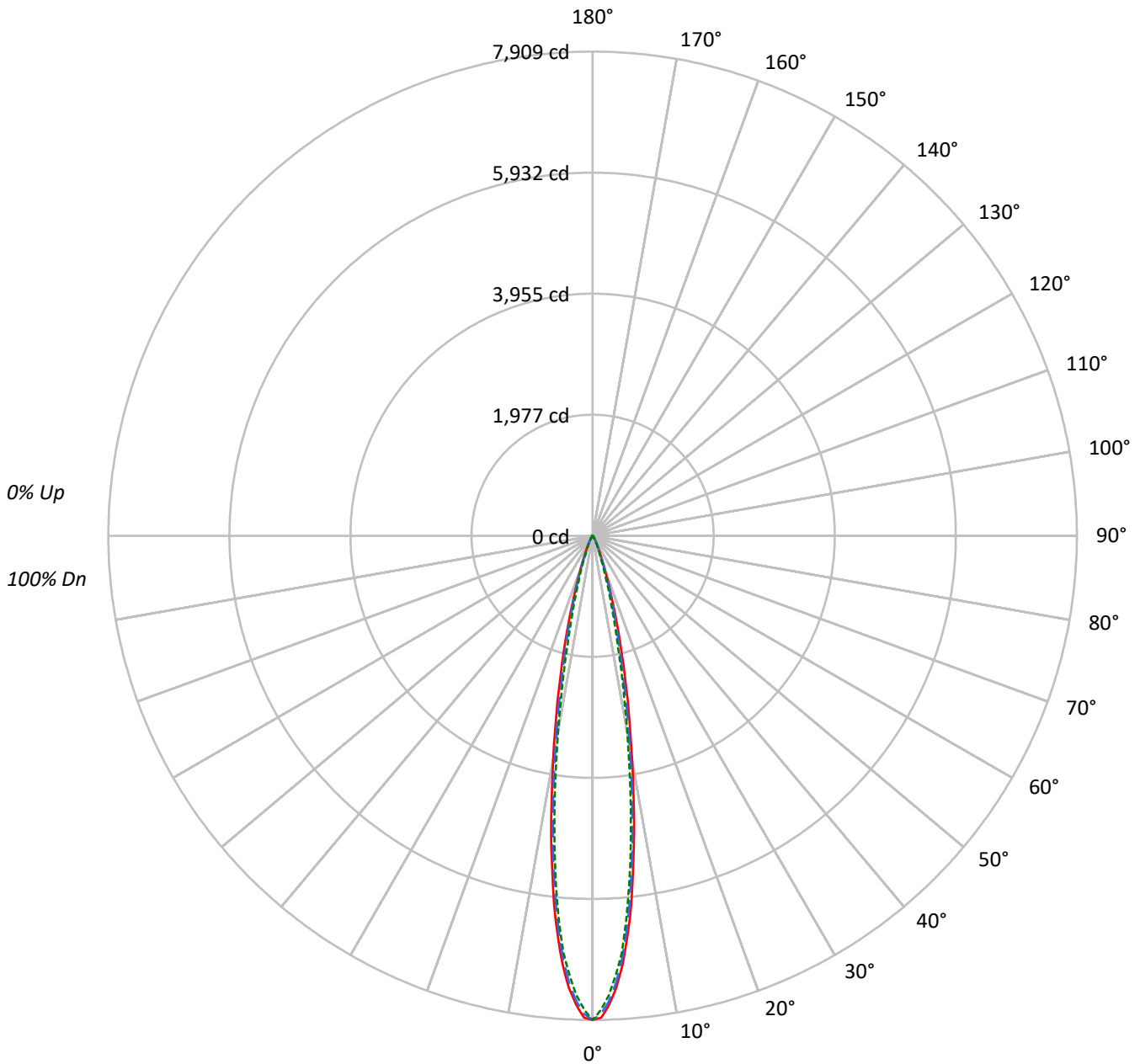
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3902048	3902048	3902048
5°	3246885	3187406	3123023
10°	1859811	1745188	1628762
15°	827185	734634	615626
20°	300104	282148	223555
25°	115242	107566	92651
30°	49677	46201	41017
35°	23489	23489	19454
40°	11786	12172	9789
45°	6838	6349	5931
50°	4682	4221	4221
55°	3699	2580	3183
60°	2960	1776	2368
65°	2101	1401	2101
70°	1731	865	1731
75°	1144	1144	1144
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.4	48.1
10°-20°	416.3	38.9
20°-30°	100.4	9.4
30°-40°	25.6	2.4
40°-50°	7.6	0.7
50°-60°	3.2	0.3
60°-70°	1.5	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°	1031.1	96.4
0°-40°	1056.6	98.8
0°-60°	1067.5	99.8
0°-90°	1069.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1069.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7909	7909	7909	7909	7909	
5°	6556	6496	6436	6380	6306	530
15°	1620	1581	1438	1296	1205	462
25°	212	213	198	179	170	109
35°	39	40	39	35	32	27
45°	10	10	9	8	8	8
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°	7909.1	7909.1	7909.1	7909.1	7909.1
1°	7873.7	7818.8	7812.1	7846.2	7745.6
2°	7672.4	7633.4	7610.8	7630.9	7516.9
3°	7396.1	7358.3	7317.4	7318.0	7190.5
4°	7019.7	6989.8	6920.9	6900.2	6826.3
5°	6556.1	6495.7	6436.0	6379.8	6306.0
6°	6043.7	5965.7	5880.3	5796.7	5721.1
7°	5441.1	5389.2	5276.4	5162.3	5098.3
8°	4874.4	4790.8	4659.1	4516.3	4462.0
9°	4265.0	4205.2	4054.0	3888.0	3833.8
10°	3712.4	3650.2	3483.6	3298.8	3251.2
11°	3193.9	3135.3	2962.1	2768.1	2717.5
12°	2755.3	2672.3	2473.5	2305.1	2255.7
13°	2318.6	2261.8	2073.3	1906.8	1811.0
14°	1947.1	1900.1	1729.3	1582.9	1481.7
15°	1619.5	1581.1	1438.3	1295.6	1205.3
16°	1328.5	1304.8	1191.9	1054.1	980.2
17°	1077.8	1055.9	983.9	857.0	794.8
18°	870.4	867.4	807.6	697.8	642.3
19°	716.1	714.9	660.0	567.9	522.1
20°	571.6	579.5	537.4	456.9	425.8
21°	466.0	470.3	436.7	375.8	347.7
22°	379.4	382.5	360.5	310.5	295.2
23°	311.1	312.9	294.6	257.4	244.0
24°	256.2	257.4	240.9	214.7	203.1
25°	211.7	212.9	197.6	179.3	170.2
26°	175.7	176.9	163.5	150.7	141.5
27°	145.8	148.2	134.8	126.9	117.1
28°	124.4	125.0	112.8	108.0	98.8
29°	101.9	105.5	95.2	90.9	84.2
30°	87.2	89.1	81.1	78.1	72.0
32.5°	57.9	59.2	55.5	53.1	48.2
35°	39.0	39.6	39.0	35.4	32.3
37.5°	26.8	26.8	27.4	23.2	22.0
40°	18.3	18.3	18.9	15.9	15.2
42.5°	13.4	13.4	12.8	11.0	11.0
45°	9.8	9.8	9.1	8.5	8.5
47.5°	7.9	7.3	6.7	6.7	6.7
50°	6.1	6.1	5.5	4.9	5.5
52.5°	4.9	4.9	4.3	4.3	4.3
55°	4.3	3.7	3.0	3.0	3.7
57.5°	3.0	3.0	2.4	2.4	3.0
60°	3.0	2.4	1.8	2.4	2.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.8	1.2	1.2	1.2	1.2
70°	1.2	1.2	0.6	0.6	1.2
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°	2.4	1.8	1.8	1.8	1.8
65°	1.8	1.8	1.2	1.2	1.8



(END OF REPORT)