

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: P282724

Luminaire Tested: **LDA2B159027D010 EU2B15NFL259027 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282724
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: LDA2B159027D010 EU2B15NFL259027 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 943.5 lumens
Efficiency: N/A
Efficacy: 66.9 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

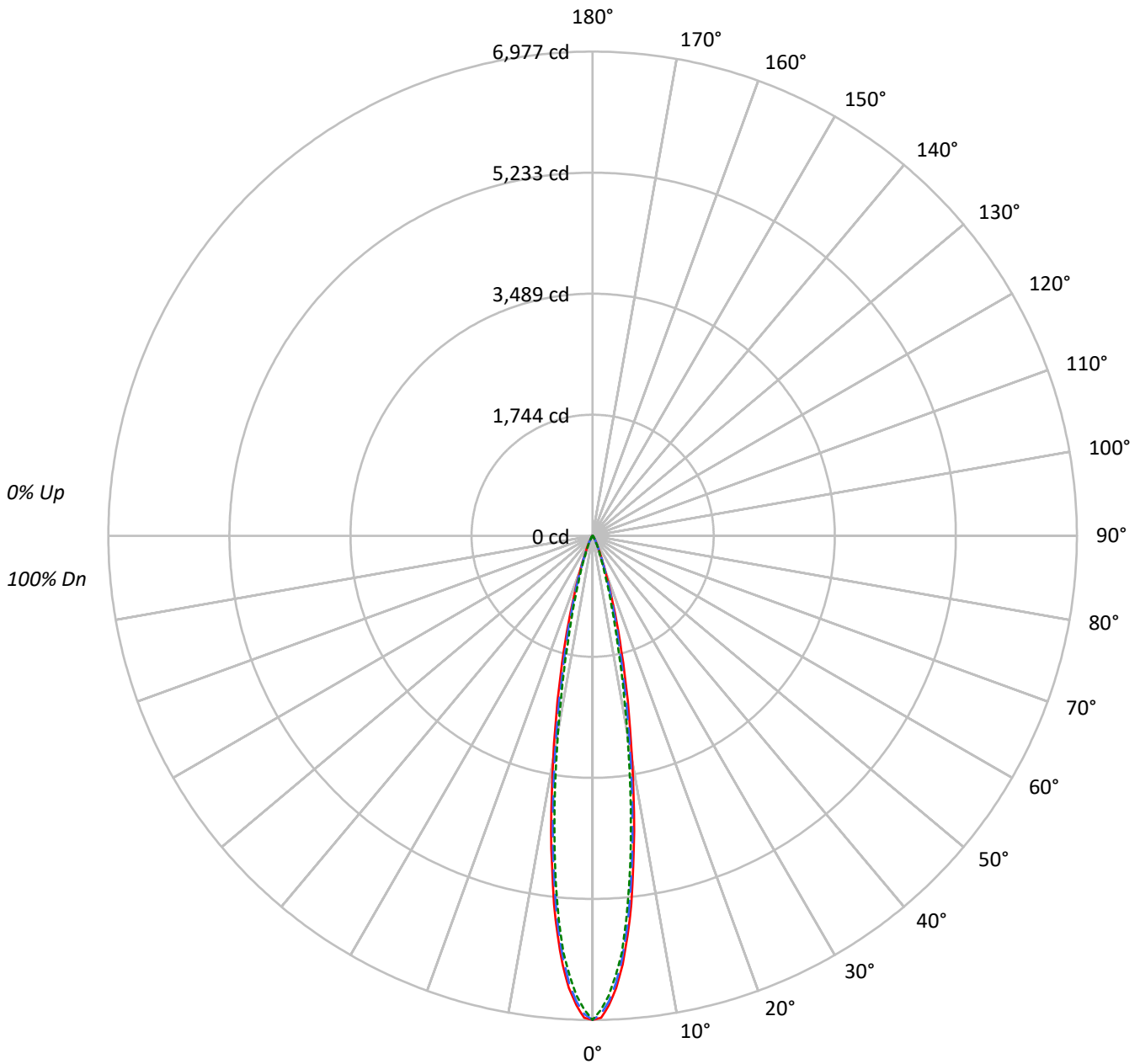
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3442087	3442087	3442087
5°	2864158	2811662	2754907
10°	1640585	1539489	1436790
15°	729680	648060	543046
20°	264717	248862	197199
25°	101633	94883	81709
30°	43809	40789	36175
35°	20719	20719	17165
40°	10369	10755	8695
45°	6000	5652	5233
50°	4145	3684	3684
55°	3269	2322	2752
60°	2664	1579	2171
65°	1868	1284	1868
70°	1587	721	1587
75°	953	953	953
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.8	48.1
10°-20°	367.2	38.9
20°-30°	88.6	9.4
30°-40°	22.6	2.4
40°-50°	6.7	0.7
50°-60°	2.9	0.3
60°-70°	1.4	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°	909.5	96.4
0°-40°	932.1	98.8
0°-60°	941.7	99.8
0°-90°	943.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	943.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6977	6977	6977	6977	6977	
5°	5783	5730	5677	5628	5563	468
15°	1429	1395	1269	1143	1063	407
25°	187	188	174	158	150	96
35°	34	35	34	31	28	24
45°	9	9	8	8	8	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°	6976.8	6976.8	6976.8	6976.8	6976.8
1°	6945.6	6897.1	6891.2	6921.3	6832.6
2°	6768.0	6733.6	6713.6	6731.4	6630.8
3°	6524.2	6490.9	6454.8	6455.4	6342.9
4°	6192.2	6165.9	6105.1	6086.8	6021.7
5°	5783.3	5730.0	5677.3	5627.8	5562.7
6°	5331.3	5262.4	5187.1	5113.4	5046.7
7°	4799.7	4754.0	4654.4	4553.8	4497.3
8°	4299.8	4226.1	4109.9	3984.0	3936.1
9°	3762.3	3709.5	3576.1	3429.7	3381.8
10°	3274.8	3219.9	3073.0	2909.9	2868.0
11°	2817.4	2765.7	2612.9	2441.8	2397.2
12°	2430.5	2357.3	2181.9	2033.4	1989.8
13°	2045.2	1995.2	1828.9	1682.0	1597.6
14°	1717.6	1676.1	1525.5	1396.3	1307.0
15°	1428.6	1394.7	1268.8	1142.9	1063.2
16°	1171.9	1151.0	1051.4	929.8	864.7
17°	950.8	931.4	867.9	756.0	701.1
18°	767.8	765.2	712.4	615.6	566.6
19°	631.7	630.6	582.2	501.0	460.6
20°	504.2	511.2	474.0	403.0	375.6
21°	411.1	414.9	385.3	331.5	306.7
22°	334.7	337.4	318.0	273.9	260.4
23°	274.4	276.0	259.9	227.1	215.2
24°	226.0	227.1	212.5	189.4	179.2
25°	186.7	187.8	174.3	158.2	150.1
26°	155.0	156.0	144.2	132.9	124.8
27°	128.6	130.8	118.9	111.9	103.3
28°	109.8	110.3	99.5	95.2	87.2
29°	89.9	93.1	83.9	80.2	74.3
30°	76.9	78.6	71.6	68.9	63.5
32.5°	51.1	52.2	49.0	46.8	42.5
35°	34.4	35.0	34.4	31.2	28.5
37.5°	23.7	23.7	24.2	20.4	19.4
40°	16.1	16.1	16.7	14.0	13.5
42.5°	11.8	11.8	11.3	9.7	9.7
45°	8.6	8.6	8.1	7.5	7.5
47.5°	7.0	6.5	5.9	5.9	5.9
50°	5.4	5.4	4.8	4.3	4.8
52.5°	4.3	4.3	3.8	3.8	3.8
55°	3.8	3.2	2.7	2.7	3.2
57.5°	2.7	2.7	2.2	2.2	2.7
60°	2.7	2.2	1.6	2.2	2.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.6	1.1	1.1	1.1	1.1
70°	1.1	1.1	0.5	0.5	1.1
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°	2.2	1.6	1.6	1.6	1.6
65°	1.6	1.6	1.1	1.1	1.6



(END OF REPORT)