

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: P282727

Luminaire Tested: **LDA2B159030D010 EU2B15NFL259030 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282727
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: LDA2B159030D010 EU2B15NFL259030 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: 984.4 lumens
Efficiency: N/A
Efficacy: 69.8 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

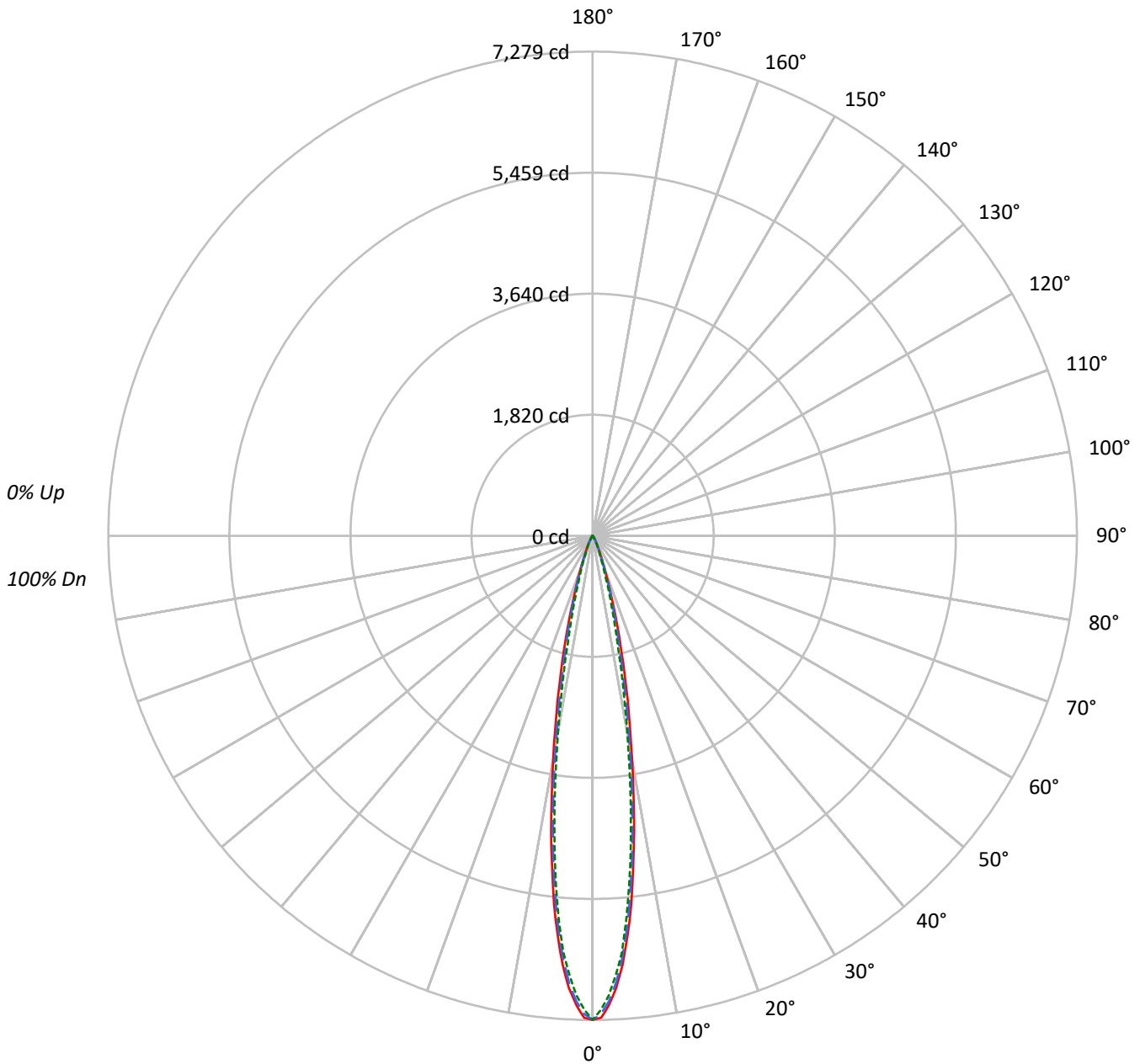
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3591082	3591082	3591082
5°	2988168	2933394	2874162
10°	1711573	1606118	1498960
15°	761296	676101	566592
20°	276163	259677	205705
25°	106042	99020	85247
30°	45746	42555	37713
35°	21622	21622	17948
40°	10820	11206	9017
45°	6279	5861	5512
50°	4298	3914	3914
55°	3355	2408	2925
60°	2763	1677	2171
65°	1985	1284	1985
70°	1587	865	1587
75°	1144	1144	1144
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.4	48.1
10°-20°	383.1	38.9
20°-30°	92.4	9.4
30°-40°	23.6	2.4
40°-50°	7.0	0.7
50°-60°	3.0	0.3
60°-70°	1.4	0.1
70°-80°	0.5	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°	948.9	96.4
0°-40°	972.5	98.8
0°-60°	982.5	99.8
0°-90°	984.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	984.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7279	7279	7279	7279	7279	
5°	6034	5978	5923	5872	5804	488
15°	1490	1455	1324	1192	1109	425
25°	195	196	182	165	157	101
35°	36	36	36	33	30	25
45°	9	9	8	8	8	8
55°	4	3	3	3	3	3
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°	7278.8	7278.8	7278.8	7278.8	7278.8
1°	7246.3	7195.7	7189.6	7221.0	7128.4
2°	7061.0	7025.1	7004.3	7022.8	6917.9
3°	6806.7	6771.9	6734.3	6734.9	6617.5
4°	6460.3	6432.8	6369.4	6350.3	6282.4
5°	6033.7	5978.1	5923.1	5871.5	5803.5
6°	5562.1	5490.3	5411.7	5334.8	5265.2
7°	5007.5	4959.8	4855.9	4750.9	4692.0
8°	4486.0	4409.1	4287.8	4156.4	4106.5
9°	3925.2	3870.1	3730.9	3578.2	3528.3
10°	3416.5	3359.3	3206.0	3035.9	2992.1
11°	2939.4	2885.5	2726.1	2547.5	2500.9
12°	2535.7	2459.4	2276.4	2121.4	2076.0
13°	2133.8	2081.6	1908.1	1754.9	1666.7
14°	1791.9	1748.7	1591.5	1456.8	1363.6
15°	1490.5	1455.1	1323.7	1192.4	1109.3
16°	1222.7	1200.8	1096.9	970.1	902.1
17°	992.0	971.7	905.5	788.7	731.5
18°	801.1	798.3	743.3	642.2	591.1
19°	659.1	657.9	607.4	522.6	480.5
20°	526.0	533.3	494.6	420.5	391.8
21°	428.9	432.8	401.9	345.8	320.0
22°	349.2	352.0	331.8	285.7	271.7
23°	286.3	288.0	271.1	236.9	224.6
24°	235.8	236.9	221.7	197.6	186.9
25°	194.8	195.9	181.9	165.0	156.6
26°	161.7	162.8	150.4	138.7	130.2
27°	134.2	136.4	124.1	116.8	107.8
28°	114.5	115.1	103.9	99.4	90.9
29°	93.8	97.1	87.6	83.6	77.5
30°	80.3	82.0	74.7	71.9	66.2
32.5°	53.3	54.5	51.1	48.8	44.3
35°	35.9	36.5	35.9	32.6	29.8
37.5°	24.7	24.7	25.3	21.3	20.2
40°	16.8	16.8	17.4	14.6	14.0
42.5°	12.4	12.4	11.8	10.1	10.1
45°	9.0	9.0	8.4	7.9	7.9
47.5°	7.3	6.7	6.2	6.2	6.2
50°	5.6	5.6	5.1	4.5	5.1
52.5°	4.5	4.5	3.9	3.9	3.9
55°	3.9	3.4	2.8	2.8	3.4
57.5°	2.8	2.8	2.2	2.2	2.8
60°	2.8	2.2	1.7	2.2	2.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.7	1.1	1.1	1.1	1.1
70°	1.1	1.1	0.6	0.6	1.1
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°	2.2	1.7	1.7	1.7	1.7
65°	1.7	1.7	1.1	1.1	1.7



(END OF REPORT)