

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: P282710

Luminaire Tested: **LDA2B158035D010 EU2B15NFL258035 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282710
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: LDA2B158035D010 EU2B15NFL258035 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: 1230.9 lumens
Efficiency: N/A
Efficacy: 87.3 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

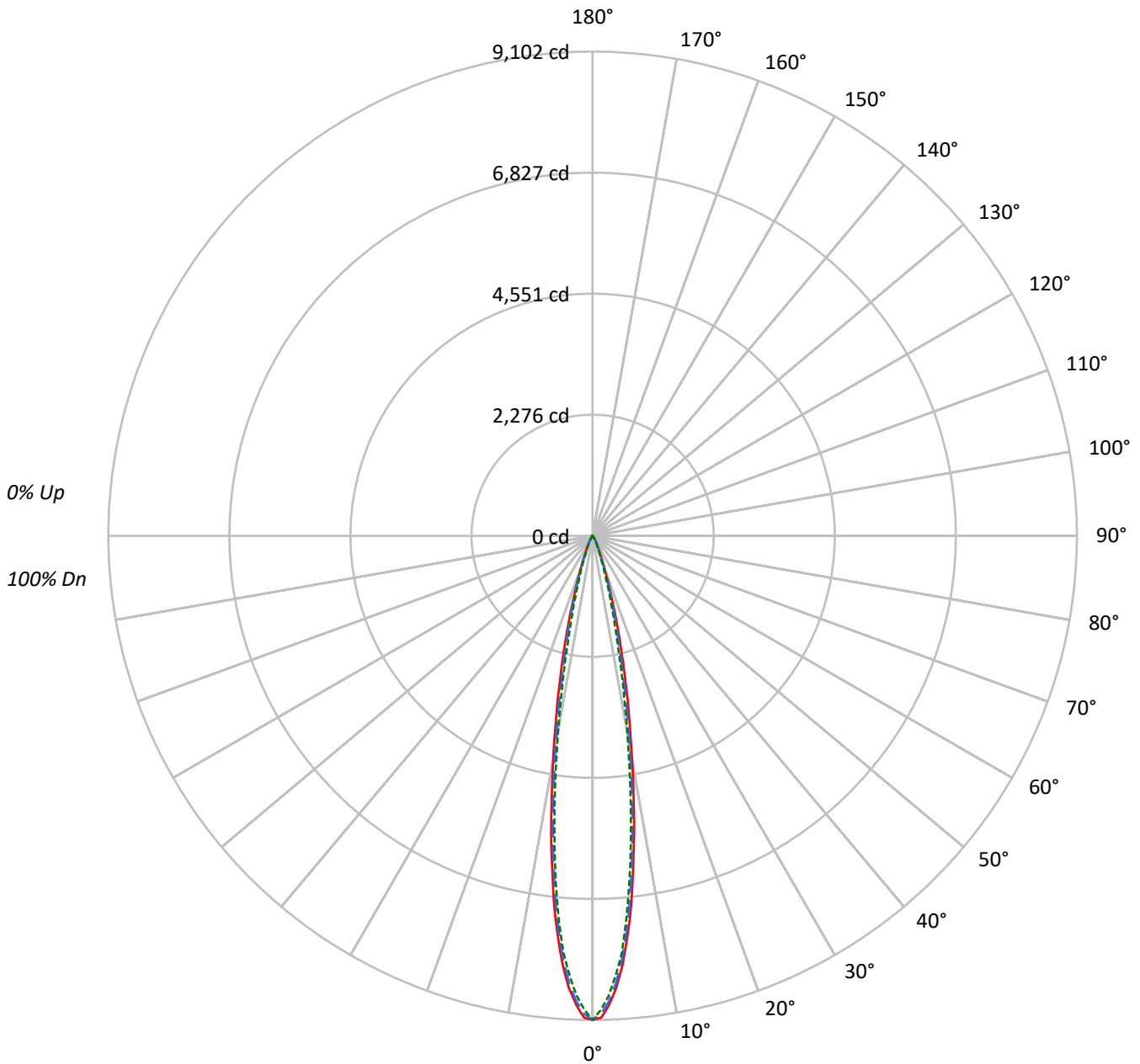
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4490530	4490530	4490530
5°	3736584	3668092	3594052
10°	2140256	2008400	1874389
15°	951965	845470	708483
20°	345361	324675	257262
25°	132607	123788	106641
30°	57196	53209	47170
35°	27043	27043	22405
40°	13589	14040	11271
45°	7814	7326	6838
50°	5373	4835	4835
55°	4215	3011	3613
60°	3454	2072	2763
65°	2452	1634	2452
70°	2019	1010	2019
75°	1334	1334	1334
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	592.0	48.1
10°-20°	479.1	38.9
20°-30°	115.5	9.4
30°-40°	29.5	2.4
40°-50°	8.8	0.7
50°-60°	3.7	0.3
60°-70°	1.8	0.1
70°-80°	0.6	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°	1186.6	96.4
0°-40°	1216.0	98.8
0°-60°	1228.5	99.8
0°-90°	1230.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1230.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9102	9102	9102	9102	9102	
5°	7545	7475	7407	7342	7257	610
15°	1864	1820	1655	1491	1387	531
25°	244	245	227	206	196	126
35°	45	46	45	41	37	31
45°	11	11	10	10	10	9
55°	5	4	4	4	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°	9101.9	9101.9	9101.9	9101.9	9101.9
1°	9061.1	8998.0	8990.2	9029.6	8913.7
2°	8829.5	8784.6	8758.6	8781.8	8650.5
3°	8511.5	8468.0	8420.9	8421.6	8274.9
4°	8078.4	8044.0	7964.7	7940.8	7855.8
5°	7544.9	7475.4	7406.6	7342.0	7257.1
6°	6955.2	6865.4	6767.1	6670.9	6583.9
7°	6261.7	6202.0	6072.1	5940.8	5867.1
8°	5609.5	5513.3	5361.7	5197.5	5135.0
9°	4908.2	4839.4	4665.4	4474.4	4411.9
10°	4272.2	4200.6	4009.0	3796.3	3741.5
11°	3675.6	3608.2	3408.8	3185.6	3127.3
12°	3170.8	3075.4	2846.5	2652.8	2595.9
13°	2668.2	2602.9	2386.0	2194.4	2084.2
14°	2240.7	2186.7	1990.1	1821.6	1705.1
15°	1863.8	1819.5	1655.3	1491.0	1387.1
16°	1528.9	1501.5	1371.7	1213.0	1128.1
17°	1240.4	1215.1	1132.3	986.3	914.7
18°	1001.7	998.2	929.4	803.1	739.2
19°	824.1	822.7	759.5	653.5	600.9
20°	657.8	666.9	618.4	525.8	490.0
21°	536.3	541.2	502.6	432.4	400.1
22°	436.6	440.1	414.9	357.3	339.8
23°	358.0	360.1	339.1	296.2	280.8
24°	294.8	296.2	277.3	247.1	233.8
25°	243.6	245.0	227.4	206.4	195.9
26°	202.2	203.6	188.1	173.4	162.9
27°	167.8	170.6	155.1	146.0	134.8
28°	143.2	143.9	129.9	124.3	113.7
29°	117.2	121.4	109.5	104.6	96.9
30°	100.4	102.5	93.4	89.9	82.8
32.5°	66.7	68.1	63.9	61.1	55.5
35°	44.9	45.6	44.9	40.7	37.2
37.5°	30.9	30.9	31.6	26.7	25.3
40°	21.1	21.1	21.8	18.3	17.5
42.5°	15.4	15.4	14.7	12.6	12.6
45°	11.2	11.2	10.5	9.8	9.8
47.5°	9.1	8.4	7.7	7.7	7.7
50°	7.0	7.0	6.3	5.6	6.3
52.5°	5.6	5.6	4.9	4.9	4.9
55°	4.9	4.2	3.5	3.5	4.2
57.5°	3.5	3.5	2.8	2.8	3.5
60°	3.5	2.8	2.1	2.8	2.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	2.1	1.4	1.4	1.4	1.4
70°	1.4	1.4	0.7	0.7	1.4
72.5°	0.7	0.7	0.7	0.7	0.7
75°	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.7	0.0	0.0	0.7
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°	2.8	2.1	2.1	2.1	2.1
65°	2.1	2.1	1.4	1.4	2.1



(END OF REPORT)