

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: P282708

Luminaire Tested: **LDA2B158030D010 EU2B15NFL258030 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282708
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: LDA2B158030D010 EU2B15NFL258030 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: 1200.3 lumens
Efficiency: N/A
Efficacy: 85.1 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

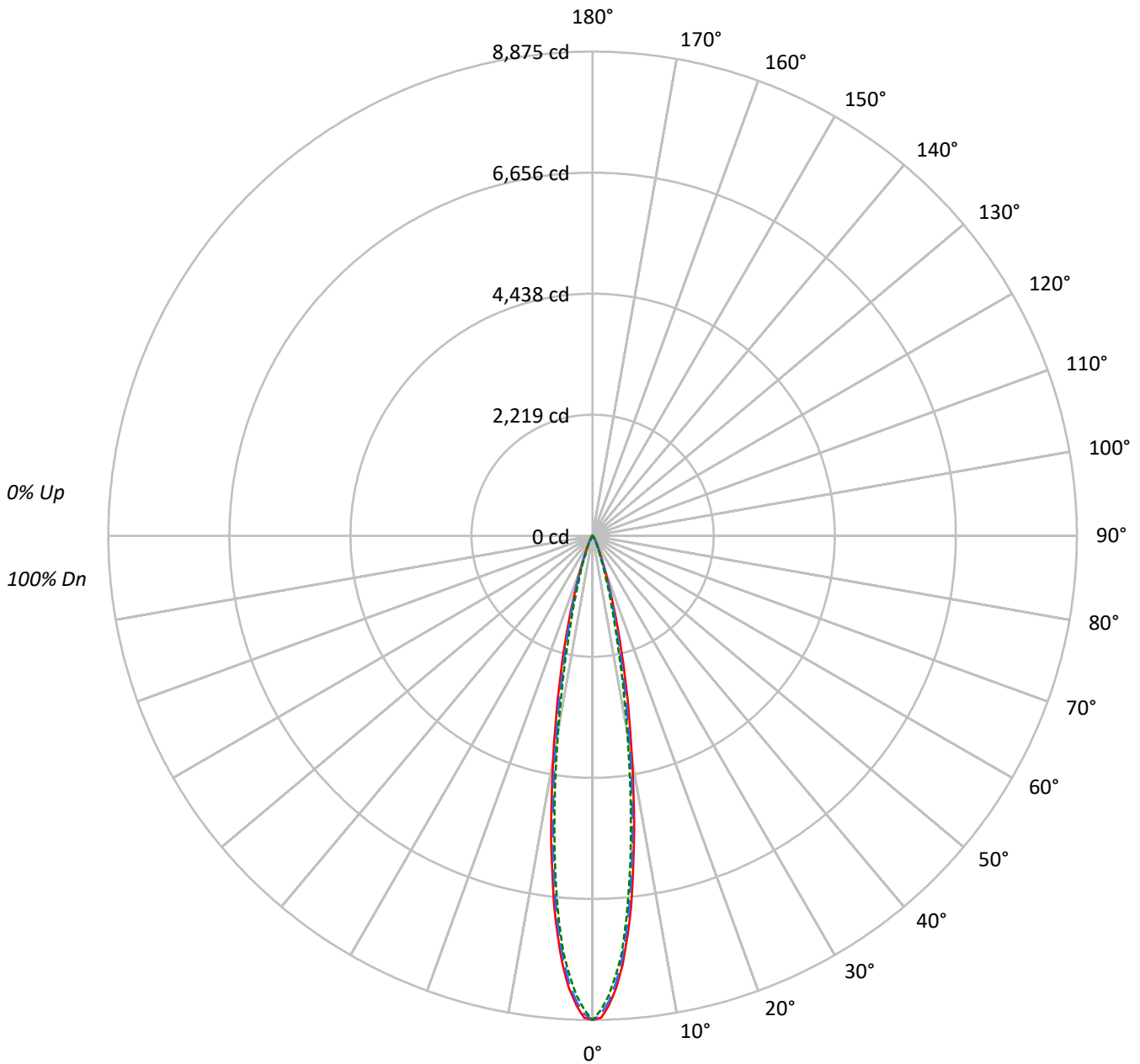
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	4378734	4378734	4378734
5°	3643577	3576818	3504611
10°	2087002	1958402	1827749
15°	928266	824427	690862
20°	336751	316642	250857
25°	129287	120740	103974
30°	55772	51841	46031
35°	26380	26380	21863
40°	13203	13654	11013
45°	7675	7187	6698
50°	5219	4759	4759
55°	4129	2925	3527
60°	3355	2072	2664
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°	577.2	48.1
10°-20°	467.1	38.9
20°-30°	112.6	9.4
30°-40°	28.7	2.4
40°-50°	8.6	0.7
50°-60°	3.6	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°	1157.0	96.4
0°-40°	1185.7	98.8
0°-60°	1198.0	99.8
0°-90°	1200.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1200.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8875	8875	8875	8875	8875	
5°	7357	7289	7222	7159	7076	595
15°	1817	1774	1614	1454	1353	518
25°	238	239	222	201	191	123
35°	44	44	44	40	36	30
45°	11	11	10	10	10	9
55°	5	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°	8875.3	8875.3	8875.3	8875.3	8875.3
1°	8835.6	8774.0	8766.5	8804.8	8691.9
2°	8609.8	8565.9	8540.6	8563.2	8435.2
3°	8299.7	8257.2	8211.4	8212.1	8069.0
4°	7877.3	7843.8	7766.4	7743.2	7660.3
5°	7357.1	7289.3	7222.3	7159.3	7076.5
6°	6782.1	6694.5	6598.7	6504.9	6420.0
7°	6105.8	6047.6	5921.0	5793.0	5721.1
8°	5469.9	5376.1	5228.3	5068.1	5007.2
9°	4786.1	4719.0	4549.2	4363.1	4302.1
10°	4165.9	4096.1	3909.2	3701.8	3648.4
11°	3584.1	3518.4	3324.0	3106.3	3049.5
12°	3091.9	2998.8	2775.7	2586.8	2531.3
13°	2601.8	2538.2	2326.6	2139.8	2032.3
14°	2185.0	2132.2	1940.6	1776.3	1662.7
15°	1817.4	1774.2	1614.1	1453.9	1352.6
16°	1490.9	1464.2	1337.5	1182.8	1100.0
17°	1209.5	1184.9	1104.1	961.7	891.9
18°	976.8	973.4	906.3	783.1	720.8
19°	803.6	802.2	740.6	637.3	585.9
20°	641.4	650.3	603.1	512.7	477.8
21°	523.0	527.8	490.1	421.7	390.2
22°	425.8	429.2	404.5	348.4	331.3
23°	349.1	351.2	330.6	288.9	273.8
24°	287.5	288.9	270.4	240.9	227.9
25°	237.5	238.9	221.8	201.2	191.0
26°	197.1	198.5	183.4	169.1	158.8
27°	163.6	166.3	151.3	142.4	131.4
28°	139.6	140.3	126.6	121.2	110.9
29°	114.3	118.4	106.8	102.0	94.5
30°	97.9	99.9	91.0	87.6	80.8
32.5°	65.0	66.4	62.3	59.6	54.1
35°	43.8	44.5	43.8	39.7	36.3
37.5°	30.1	30.1	30.8	26.0	24.6
40°	20.5	20.5	21.2	17.8	17.1
42.5°	15.1	15.1	14.4	12.3	12.3
45°	11.0	11.0	10.3	9.6	9.6
47.5°	8.9	8.2	7.5	7.5	7.5
50°	6.8	6.8	6.2	5.5	6.2
52.5°	5.5	5.5	4.8	4.8	4.8
55°	4.8	4.1	3.4	3.4	4.1
57.5°	3.4	3.4	2.7	2.7	3.4
60°	3.4	2.7	2.1	2.7	2.7



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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°	2.7	2.1	2.1	2.1	2.1
65°	2.1	2.1	1.4	1.4	2.1



(END OF REPORT)