

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: P282622

Luminaire Tested: **LDA2B058027D010 EU2B05NFL258027 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282622
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: LDA2B058027D010 EU2B05NFL258027 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 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: 662.4 lumens
Efficiency: N/A
Efficacy: 94.6 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

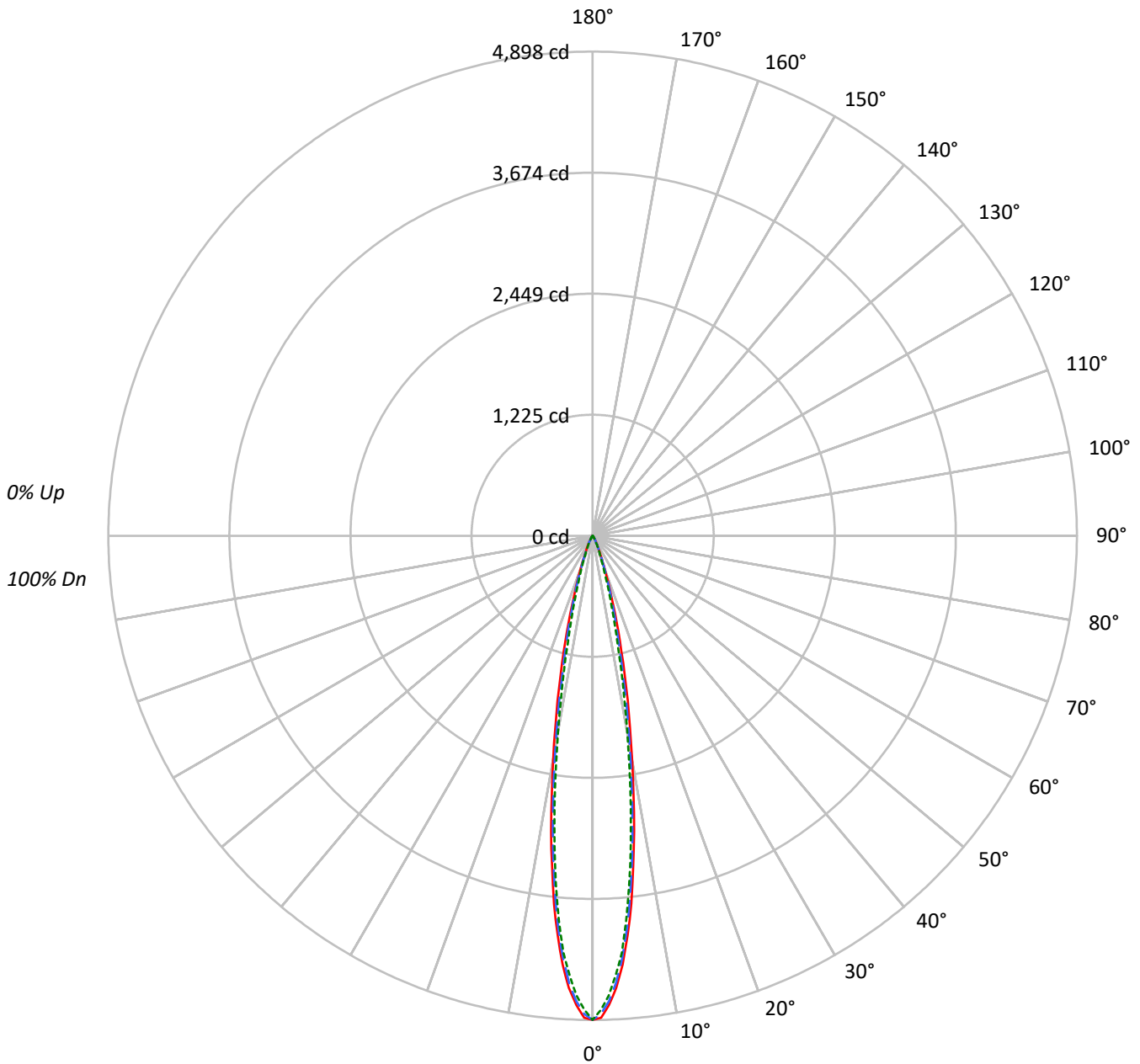
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P282622

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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°	2416289	2416289	2416289
5°	2010601	1973755	1933887
10°	1151636	1080698	1008608
15°	512247	454939	381236
20°	185806	174728	138449
25°	71366	66630	57376
30°	30763	28598	25408
35°	14575	14575	12046
40°	7278	7535	6054
45°	4186	3977	3698
50°	2917	2610	2610
55°	2236	1634	1978
60°	1875	1085	1480
65°	1284	934	1284
70°	1154	577	1154
75°	762	762	762
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.5	48.1
10°-20°	257.8	38.9
20°-30°	62.2	9.4
30°-40°	15.8	2.4
40°-50°	4.7	0.7
50°-60°	2.0	0.3
60°-70°	1.0	0.1
70°-80°	0.3	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°	638.5	96.4
0°-40°	654.3	98.8
0°-60°	661.1	99.8
0°-90°	662.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	662.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4898	4898	4898	4898	4898	
5°	4060	4022	3985	3951	3905	328
15°	1003	979	891	802	746	286
25°	131	132	122	111	105	68
35°	24	25	24	22	20	17
45°	6	6	6	5	5	5
55°	3	2	2	2	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
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°	4897.6	4897.6	4897.6	4897.6	4897.6
1°	4875.7	4841.7	4837.5	4858.7	4796.3
2°	4751.0	4726.8	4712.9	4725.3	4654.7
3°	4579.9	4556.5	4531.2	4531.6	4452.6
4°	4346.8	4328.3	4285.7	4272.8	4227.1
5°	4059.8	4022.4	3985.4	3950.6	3904.9
6°	3742.5	3694.1	3641.3	3589.5	3542.7
7°	3369.3	3337.2	3267.3	3196.7	3157.0
8°	3018.4	2966.6	2885.1	2796.7	2763.1
9°	2641.0	2604.0	2510.4	2407.6	2374.0
10°	2298.8	2260.3	2157.2	2042.7	2013.3
11°	1977.8	1941.5	1834.2	1714.1	1682.8
12°	1706.2	1654.8	1531.7	1427.4	1396.8
13°	1435.7	1400.6	1283.9	1180.8	1121.5
14°	1205.7	1176.6	1070.8	980.2	917.5
15°	1002.9	979.1	890.7	802.3	746.4
16°	822.7	808.0	738.1	652.7	607.0
17°	667.4	653.8	609.3	530.7	492.2
18°	539.0	537.1	500.1	432.1	397.7
19°	443.4	442.7	408.7	351.7	323.3
20°	353.9	358.8	332.8	282.9	263.7
21°	288.6	291.2	270.5	232.7	215.3
22°	234.9	236.8	223.2	192.3	182.8
23°	192.6	193.8	182.4	159.4	151.1
24°	158.6	159.4	149.2	133.0	125.8
25°	131.1	131.8	122.4	111.1	105.4
26°	108.8	109.5	101.2	93.3	87.6
27°	90.3	91.8	83.5	78.6	72.5
28°	77.1	77.4	69.9	66.9	61.2
29°	63.1	65.3	58.9	56.3	52.1
30°	54.0	55.1	50.2	48.3	44.6
32.5°	35.9	36.6	34.4	32.9	29.8
35°	24.2	24.6	24.2	21.9	20.0
37.5°	16.6	16.6	17.0	14.4	13.6
40°	11.3	11.3	11.7	9.8	9.4
42.5°	8.3	8.3	7.9	6.8	6.8
45°	6.0	6.0	5.7	5.3	5.3
47.5°	4.9	4.5	4.2	4.2	4.2
50°	3.8	3.8	3.4	3.0	3.4
52.5°	3.0	3.0	2.6	2.6	2.6
55°	2.6	2.3	1.9	1.9	2.3
57.5°	1.9	1.9	1.5	1.5	1.9
60°	1.9	1.5	1.1	1.5	1.5



TEST NUMBER: P282622

CATALOG NUMBER: LDA2B058027D010 EU2B05NFL258027 2LBALPINSQ1MMS

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.1	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.4	0.4	0.8
72.5°	0.4	0.4	0.4	0.4	0.4
75°	0.4	0.4	0.4	0.4	0.4
77.5°	0.4	0.4	0.0	0.0	0.4
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°	1.5	1.1	1.1	1.1	1.1
65°	1.1	1.1	0.8	0.8	1.1



(END OF REPORT)