

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: P282628

Luminaire Tested: **LDA2B058035D010 EU2B05NFL258035 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282628
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: LDA2B058035D010 EU2B05NFL258035 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: 682.6 lumens
Efficiency: N/A
Efficacy: 97.5 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

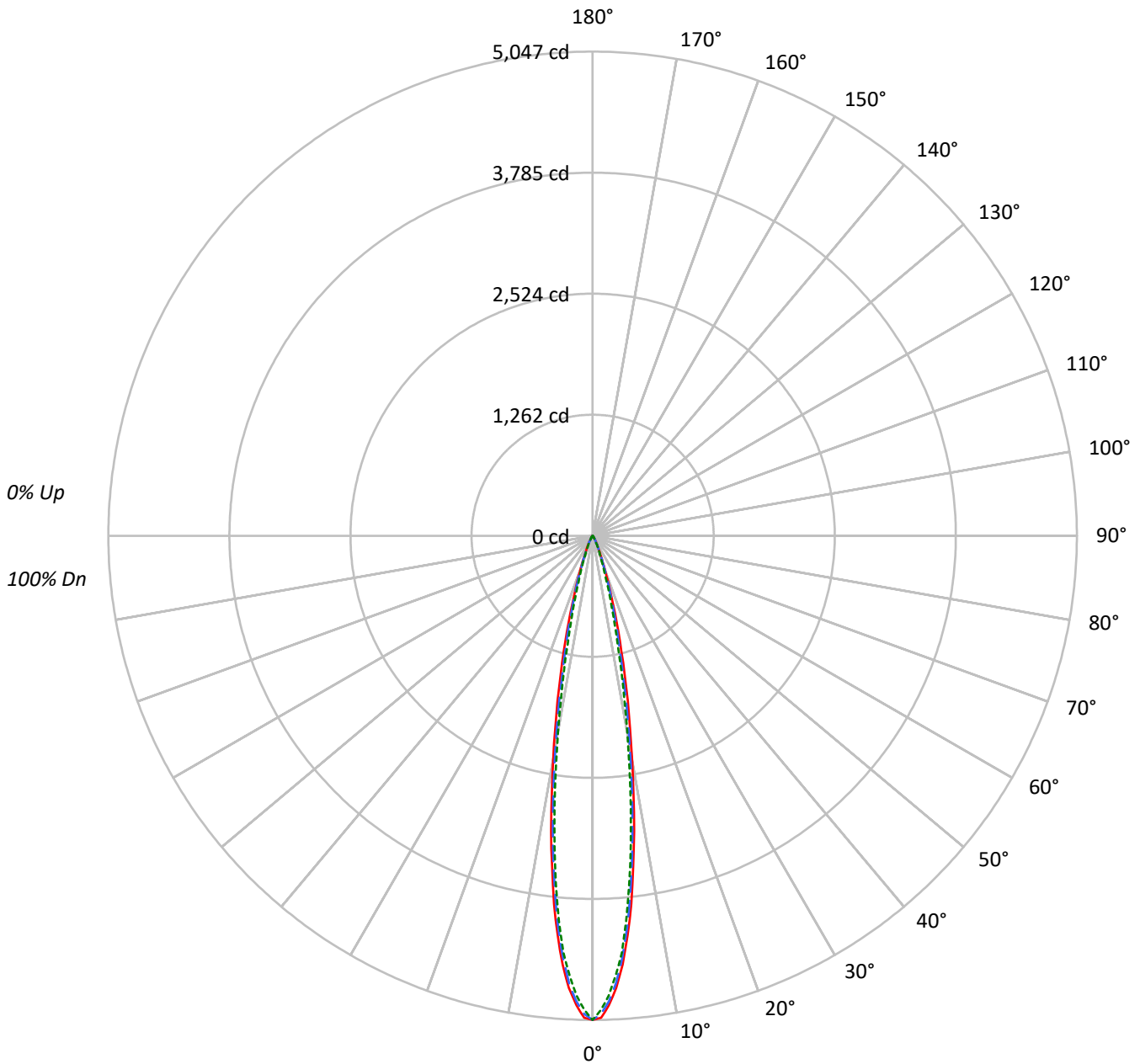
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2490194	2490194	2490194
5°	2072111	2034125	1993069
10°	1186904	1113762	1039468
15°	527876	468832	392881
20°	191529	180083	142649
25°	73544	68644	59118
30°	31731	29510	26149
35°	14997	14997	12407
40°	7535	7793	6247
45°	4326	4047	3768
50°	2993	2686	2686
55°	2322	1634	1978
60°	1875	1184	1579
65°	1401	934	1401
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°	328.3	48.1
10°-20°	265.7	38.9
20°-30°	64.1	9.4
30°-40°	16.3	2.4
40°-50°	4.9	0.7
50°-60°	2.1	0.3
60°-70°	1.0	0.2
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°	658.0	96.4
0°-40°	674.3	98.8
0°-60°	681.3	99.8
0°-90°	682.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	682.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5047	5047	5047	5047	5047	
5°	4184	4145	4107	4072	4024	338
15°	1034	1009	918	827	769	295
25°	135	136	126	114	109	70
35°	25	25	25	23	21	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°	5047.4	5047.4	5047.4	5047.4	5047.4
1°	5024.8	4989.8	4985.5	5007.3	4943.1
2°	4896.3	4871.4	4857.0	4869.9	4797.1
3°	4720.0	4695.9	4669.8	4670.2	4588.8
4°	4479.8	4460.7	4416.8	4403.5	4356.4
5°	4184.0	4145.4	4107.3	4071.5	4024.4
6°	3857.0	3807.1	3752.6	3699.3	3651.0
7°	3472.4	3439.3	3367.3	3294.5	3253.6
8°	3110.7	3057.4	2973.3	2882.2	2847.6
9°	2721.8	2683.7	2587.1	2481.3	2446.6
10°	2369.2	2329.4	2223.2	2105.2	2074.9
11°	2038.3	2000.9	1890.3	1766.5	1734.2
12°	1758.4	1705.4	1578.5	1471.1	1439.6
13°	1479.6	1443.4	1323.2	1216.9	1155.8
14°	1242.6	1212.6	1103.6	1010.2	945.6
15°	1033.5	1009.0	917.9	826.8	769.2
16°	847.8	832.7	760.7	672.7	625.6
17°	687.9	673.8	627.9	546.9	507.2
18°	555.5	553.6	515.4	445.3	409.9
19°	457.0	456.2	421.2	362.4	333.2
20°	364.8	369.8	343.0	291.6	271.7
21°	297.4	300.1	278.7	239.8	221.9
22°	242.1	244.1	230.1	198.1	188.4
23°	198.5	199.7	188.0	164.3	155.7
24°	163.5	164.3	153.8	137.0	129.6
25°	135.1	135.9	126.1	114.4	108.6
26°	112.1	112.9	104.3	96.2	90.3
27°	93.0	94.6	86.0	81.0	74.7
28°	79.4	79.8	72.0	68.9	63.1
29°	65.0	67.3	60.7	58.0	53.7
30°	55.7	56.8	51.8	49.8	45.9
32.5°	37.0	37.8	35.4	33.9	30.8
35°	24.9	25.3	24.9	22.6	20.6
37.5°	17.1	17.1	17.5	14.8	14.0
40°	11.7	11.7	12.1	10.1	9.7
42.5°	8.6	8.6	8.2	7.0	7.0
45°	6.2	6.2	5.8	5.4	5.4
47.5°	5.1	4.7	4.3	4.3	4.3
50°	3.9	3.9	3.5	3.1	3.5
52.5°	3.1	3.1	2.7	2.7	2.7
55°	2.7	2.3	1.9	1.9	2.3
57.5°	1.9	1.9	1.6	1.6	1.9
60°	1.9	1.6	1.2	1.6	1.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.2	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°	1.6	1.2	1.2	1.2	1.2
65°	1.2	1.2	0.8	0.8	1.2



(END OF REPORT)