

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: P282637

Luminaire Tested: **LDA2B059024D010 EU2B05NFL259024 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282637
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: LDA2B059024D010 EU2B05NFL259024 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: 484.5 lumens
Efficiency: N/A
Efficacy: 69.2 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

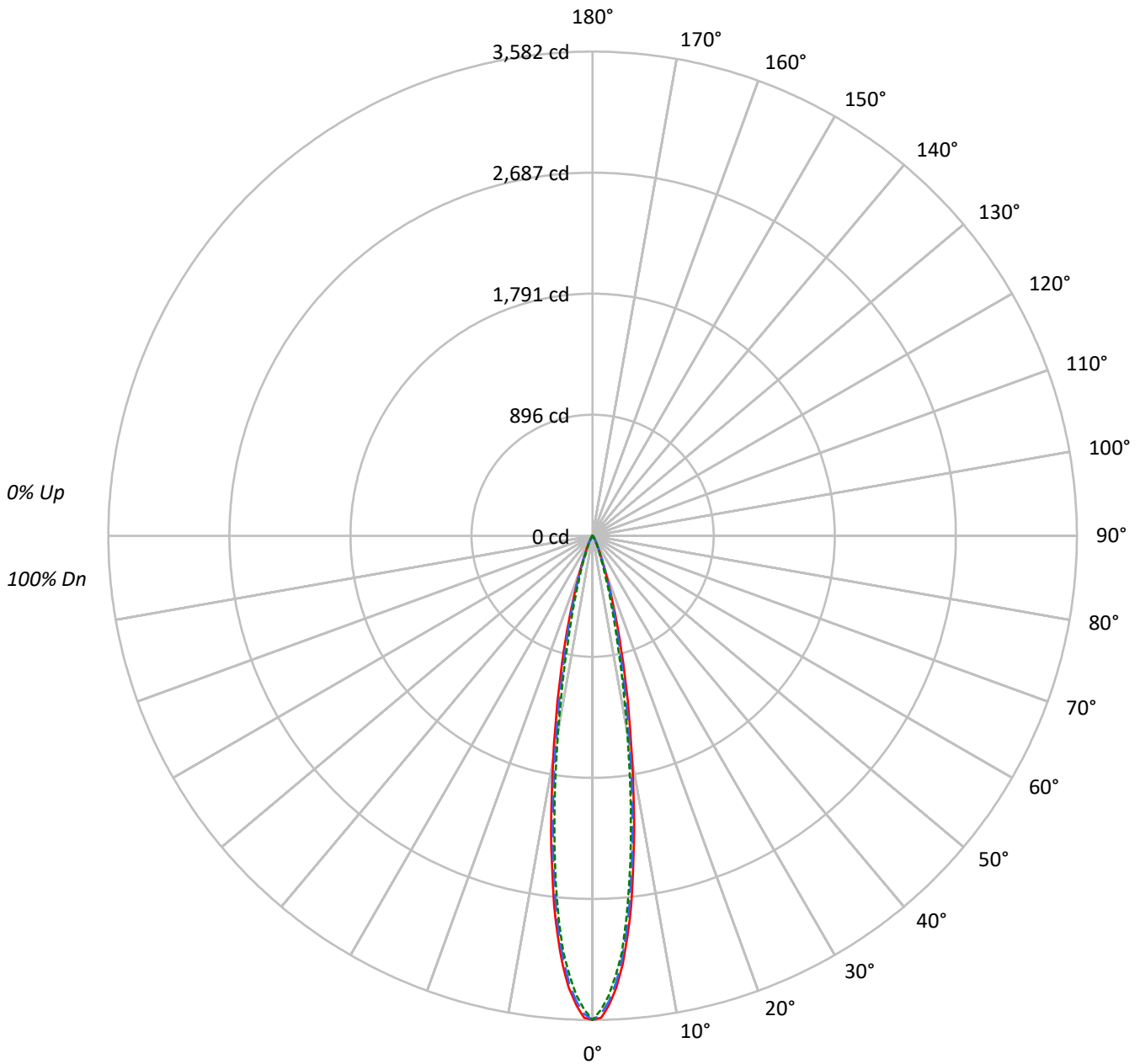
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	84	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°	1767173	1767173	1767173
5°	1470485	1443544	1414374
10°	842285	790385	737632
15°	374647	332713	278827
20°	135929	127791	101225
25°	52205	48721	41971
30°	22503	20907	18572
35°	10660	10660	8793
40°	5346	5539	4444
45°	3070	2861	2721
50°	2149	1919	1919
55°	1634	1204	1462
60°	1381	789	1085
65°	934	700	934
70°	865	433	865
75°	572	572	572
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.0	48.1
10°-20°	188.5	38.9
20°-30°	45.5	9.4
30°-40°	11.6	2.4
40°-50°	3.5	0.7
50°-60°	1.5	0.3
60°-70°	0.7	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°	467.0	96.4
0°-40°	478.5	98.8
0°-60°	483.5	99.8
0°-90°	484.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	484.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3582	3582	3582	3582	3582	
5°	2969	2942	2915	2889	2856	240
15°	734	716	651	587	546	209
25°	96	96	90	81	77	50
35°	18	18	18	16	15	12
45°	4	4	4	4	4	4
55°	2	2	1	1	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3581.9	3581.9	3581.9	3581.9	3581.9
1°	3565.9	3541.0	3538.0	3553.5	3507.9
2°	3474.7	3457.0	3446.8	3455.9	3404.3
3°	3349.6	3332.5	3313.9	3314.2	3256.5
4°	3179.1	3165.6	3134.4	3125.0	3091.6
5°	2969.2	2941.8	2914.8	2889.3	2855.9
6°	2737.1	2701.8	2663.1	2625.2	2591.0
7°	2464.2	2440.7	2389.6	2337.9	2308.9
8°	2207.5	2169.7	2110.0	2045.4	2020.8
9°	1931.6	1904.5	1836.0	1760.8	1736.3
10°	1681.3	1653.1	1577.7	1494.0	1472.4
11°	1446.5	1419.9	1341.5	1253.6	1230.7
12°	1247.8	1210.3	1120.2	1044.0	1021.6
13°	1050.0	1024.4	939.0	863.6	820.2
14°	881.8	860.5	783.2	716.9	671.0
15°	733.5	716.1	651.4	586.8	545.9
16°	601.7	590.9	539.8	477.4	443.9
17°	488.1	478.2	445.6	388.1	360.0
18°	394.2	392.8	365.8	316.0	290.9
19°	324.3	323.8	298.9	257.2	236.5
20°	258.9	262.4	243.4	206.9	192.8
21°	211.1	213.0	197.8	170.2	157.5
22°	171.8	173.2	163.3	140.6	133.7
23°	140.9	141.7	133.4	116.6	110.5
24°	116.0	116.6	109.1	97.2	92.0
25°	95.9	96.4	89.5	81.2	77.1
26°	79.6	80.1	74.0	68.2	64.1
27°	66.0	67.1	61.1	57.5	53.0
28°	56.4	56.6	51.1	48.9	44.8
29°	46.1	47.8	43.1	41.2	38.1
30°	39.5	40.3	36.7	35.4	32.6
32.5°	26.2	26.8	25.1	24.0	21.8
35°	17.7	18.0	17.7	16.0	14.6
37.5°	12.2	12.2	12.4	10.5	9.9
40°	8.3	8.3	8.6	7.2	6.9
42.5°	6.1	6.1	5.8	5.0	5.0
45°	4.4	4.4	4.1	3.9	3.9
47.5°	3.6	3.3	3.0	3.0	3.0
50°	2.8	2.8	2.5	2.2	2.5
52.5°	2.2	2.2	1.9	1.9	1.9
55°	1.9	1.7	1.4	1.4	1.7
57.5°	1.4	1.4	1.1	1.1	1.4
60°	1.4	1.1	0.8	1.1	1.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	0.8	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.3	0.3	0.6
72.5°	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3
77.5°	0.3	0.3	0.0	0.0	0.3
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°	1.1	0.8	0.8	0.8	0.8
65°	0.8	0.8	0.6	0.6	0.8



(END OF REPORT)