

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: P282655

Luminaire Tested: **LDA2B059727D010 EU2B05NFL259727 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282655  
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: LDA2B059727D010 EU2B05NFL259727 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: 469.6 lumens  
Efficiency: N/A  
Efficacy: 67.1 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

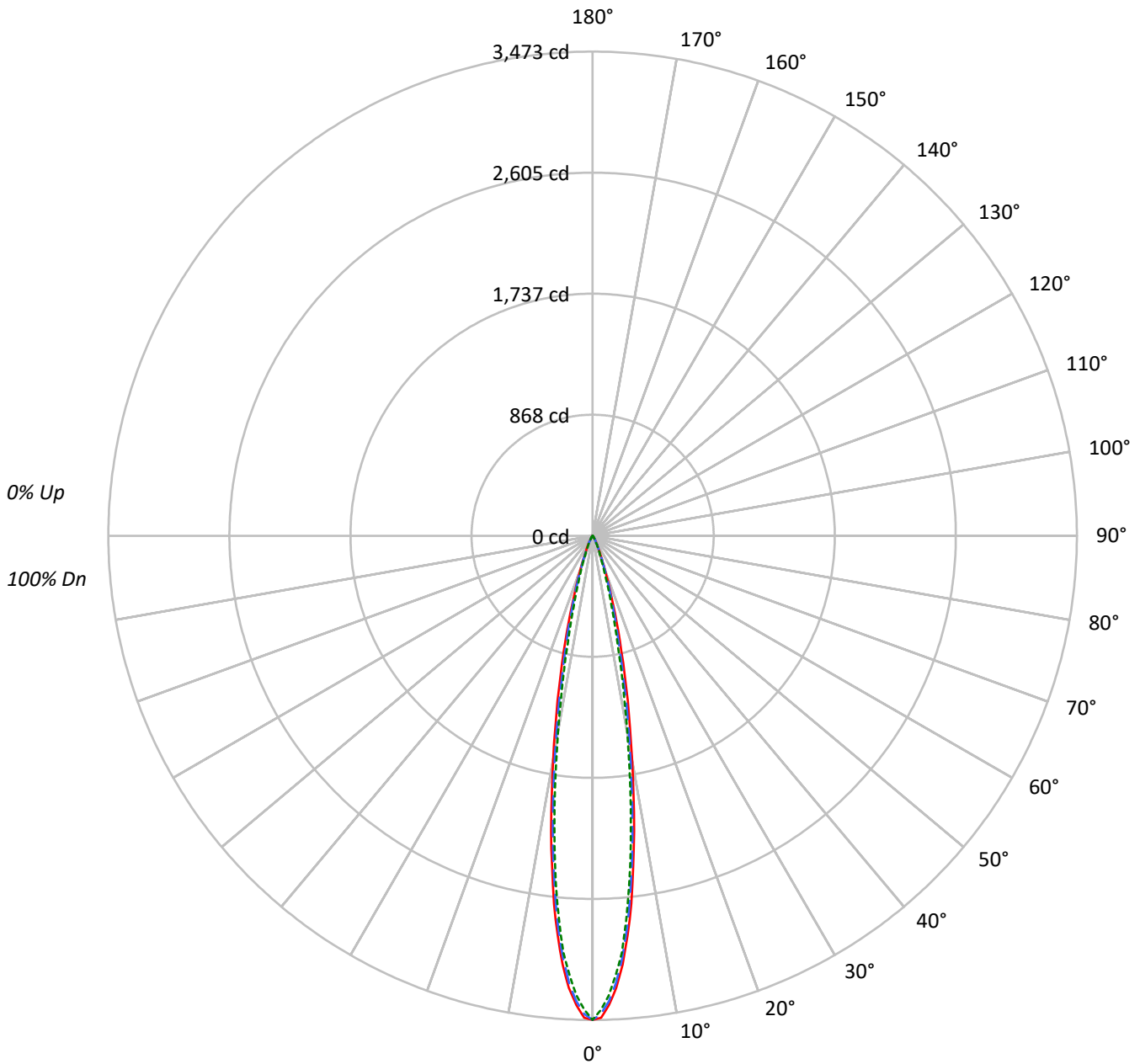
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1713297	1713297	1713297
5°	1425616	1399517	1371238
10°	816585	766288	715139
15°	363205	322549	270297
20°	131781	123906	98127
25°	50571	47251	40664
30°	21819	20281	18002
35°	10299	10299	8552
40°	5152	5346	4315
45°	3000	2791	2582
50°	2072	1842	1842
55°	1634	1118	1376
60°	1283	789	1085
65°	934	584	934
70°	721	433	721
75°	572	572	572
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.9	48.1
10°-20°	182.8	38.9
20°-30°	44.1	9.4
30°-40°	11.2	2.4
40°-50°	3.3	0.7
50°-60°	1.4	0.3
60°-70°	0.7	0.1
70°-80°	0.2	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°	452.7	96.4
0°-40°	463.9	98.8
0°-60°	468.7	99.8
0°-90°	469.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	469.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3473	3473	3473	3473	3473	
5°	2879	2852	2826	2801	2769	233
15°	711	694	632	569	529	203
25°	93	94	87	79	75	48
35°	17	17	17	16	14	12
45°	4	4	4	4	4	4
55°	2	2	1	1	2	2
65°	1	1	0	0	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°	3472.7	3472.7	3472.7	3472.7	3472.7
1°	3457.1	3433.0	3430.1	3445.1	3400.9
2°	3368.8	3351.6	3341.7	3350.5	3300.5
3°	3247.4	3230.8	3212.9	3213.1	3157.2
4°	3082.2	3069.1	3038.8	3029.7	2997.3
5°	2878.6	2852.1	2825.9	2801.2	2768.8
6°	2653.7	2619.4	2581.9	2545.2	2512.0
7°	2389.0	2366.3	2316.7	2266.6	2238.5
8°	2140.2	2103.5	2045.7	1983.0	1959.2
9°	1872.7	1846.4	1780.0	1707.1	1683.3
10°	1630.0	1602.7	1529.6	1448.4	1427.5
11°	1402.4	1376.6	1300.6	1215.4	1193.2
12°	1209.8	1173.4	1086.0	1012.1	990.4
13°	1018.0	993.1	910.4	837.2	795.2
14°	854.9	834.3	759.3	695.0	650.6
15°	711.1	694.2	631.5	568.9	529.2
16°	583.3	572.9	523.3	462.8	430.4
17°	473.3	463.6	432.0	376.3	349.0
18°	382.2	380.9	354.6	306.4	282.0
19°	314.4	313.9	289.8	249.3	229.3
20°	251.0	254.4	236.0	200.6	186.9
21°	204.6	206.5	191.8	165.0	152.7
22°	166.6	167.9	158.3	136.3	129.6
23°	136.6	137.4	129.4	113.0	107.1
24°	112.5	113.0	105.8	94.3	89.2
25°	92.9	93.5	86.8	78.7	74.7
26°	77.1	77.7	71.8	66.2	62.1
27°	64.0	65.1	59.2	55.7	51.4
28°	54.6	54.9	49.5	47.4	43.4
29°	44.7	46.3	41.8	39.9	37.0
30°	38.3	39.1	35.6	34.3	31.6
32.5°	25.4	26.0	24.4	23.3	21.2
35°	17.1	17.4	17.1	15.5	14.2
37.5°	11.8	11.8	12.1	10.2	9.6
40°	8.0	8.0	8.3	7.0	6.7
42.5°	5.9	5.9	5.6	4.8	4.8
45°	4.3	4.3	4.0	3.7	3.7
47.5°	3.5	3.2	2.9	2.9	2.9
50°	2.7	2.7	2.4	2.1	2.4
52.5°	2.1	2.1	1.9	1.9	1.9
55°	1.9	1.6	1.3	1.3	1.6
57.5°	1.3	1.3	1.1	1.1	1.3
60°	1.3	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	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.3	0.3	0.5
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	0.5	0.5	0.8



(END OF REPORT)