

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: P282653

Luminaire Tested: **LDA2B059727D010 EU2B05NFL259727 2LBALPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282653  
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 2LBALPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC  
AND 2in Adj SQ Pinhole w-lens, MW  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 468.5 lumens  
Efficiency: N/A  
Efficacy: 66.9 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

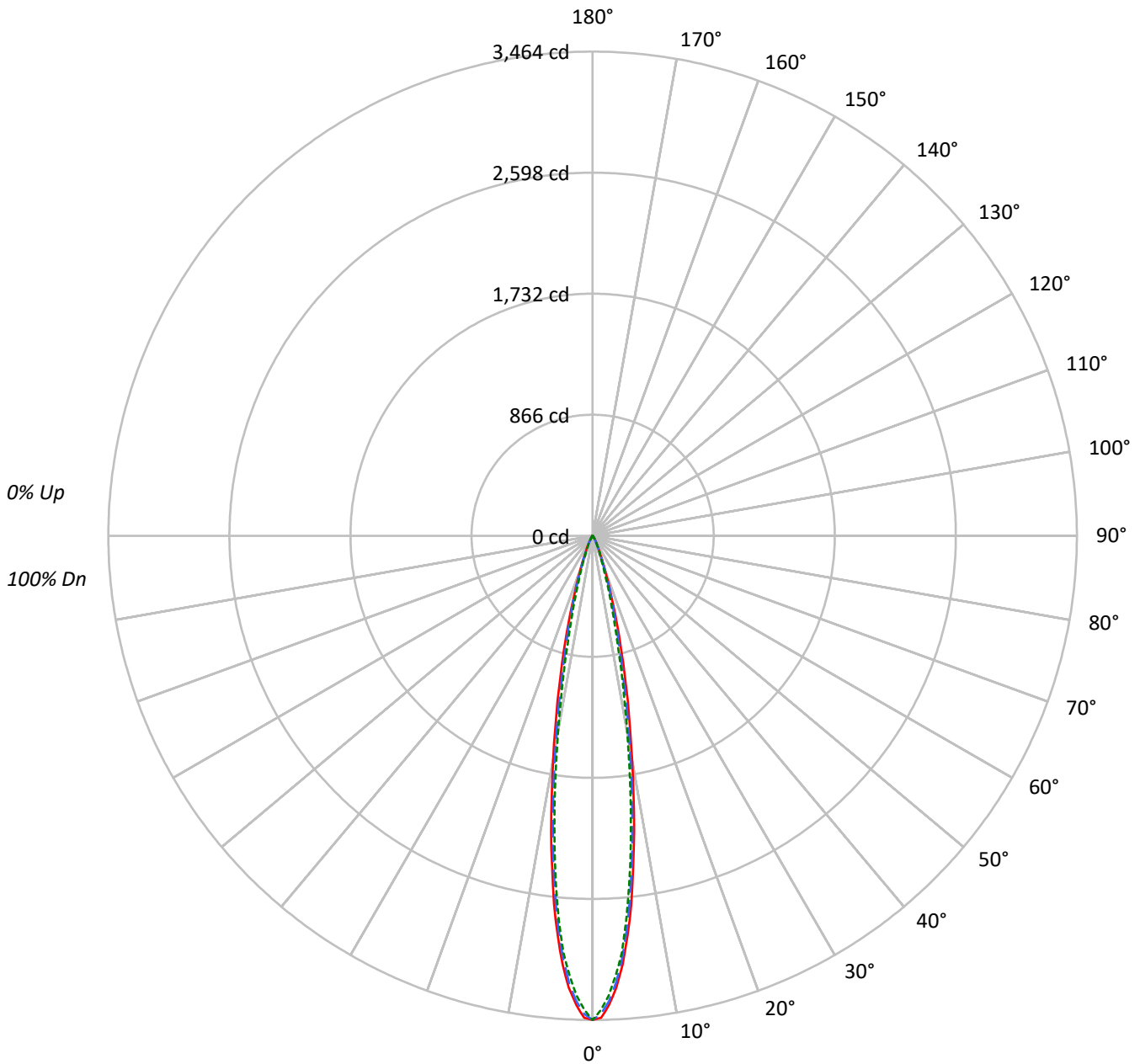
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1709104	1709104	1709104
5°	1422149	1396099	1367920
10°	814582	764384	713385
15°	362337	321782	269633
20°	131414	123591	97917
25°	50463	47142	40555
30°	21762	20224	17945
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°	225.3	48.1
10°-20°	182.3	38.9
20°-30°	44.0	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°	451.6	96.4
0°-40°	462.8	98.8
0°-60°	467.6	99.8
0°-90°	468.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	468.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3464	3464	3464	3464	3464	
5°	2872	2845	2819	2794	2762	232
15°	709	692	630	568	528	202
25°	93	93	87	78	74	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°	3464.2	3464.2	3464.2	3464.2	3464.2
1°	3448.7	3424.7	3421.7	3436.7	3392.6
2°	3360.5	3343.4	3333.6	3342.4	3292.4
3°	3239.5	3222.9	3205.0	3205.3	3149.5
4°	3074.7	3061.6	3031.4	3022.3	2990.0
5°	2871.6	2845.2	2819.0	2794.4	2762.1
6°	2647.2	2613.0	2575.6	2539.0	2505.8
7°	2383.2	2360.5	2311.1	2261.1	2233.1
8°	2135.0	2098.4	2040.7	1978.2	1954.4
9°	1868.1	1841.9	1775.6	1703.0	1679.2
10°	1626.0	1598.8	1525.8	1444.9	1424.0
11°	1398.9	1373.3	1297.4	1212.4	1190.3
12°	1206.8	1170.5	1083.4	1009.7	988.0
13°	1015.5	990.7	908.1	835.2	793.2
14°	852.8	832.3	757.4	693.3	649.0
15°	709.4	692.5	630.0	567.5	527.9
16°	581.9	571.5	522.1	461.7	429.4
17°	472.1	462.5	431.0	375.4	348.1
18°	381.3	379.9	353.7	305.6	281.3
19°	313.7	313.1	289.1	248.7	228.7
20°	250.3	253.8	235.4	200.1	186.5
21°	204.1	206.0	191.3	164.6	152.3
22°	166.2	167.5	157.9	136.0	129.3
23°	136.3	137.1	129.0	112.7	106.9
24°	112.2	112.7	105.5	94.0	89.0
25°	92.7	93.2	86.6	78.5	74.5
26°	76.9	77.5	71.6	66.0	62.0
27°	63.9	64.9	59.0	55.6	51.3
28°	54.5	54.8	49.4	47.3	43.3
29°	44.6	46.2	41.7	39.8	36.9
30°	38.2	39.0	35.5	34.2	31.5
32.5°	25.4	25.9	24.3	23.2	21.1
35°	17.1	17.4	17.1	15.5	14.2
37.5°	11.8	11.8	12.0	10.2	9.6
40°	8.0	8.0	8.3	6.9	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)