

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: P282654

Luminaire Tested: **LDA2B059727D010 EU2B05NFL259727 2LBALPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282654  
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 2LBALPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC  
AND 2in Adj SQ Pinhole w-lens, MB  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 461.9 lumens  
Efficiency: N/A  
Efficacy: 66.0 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

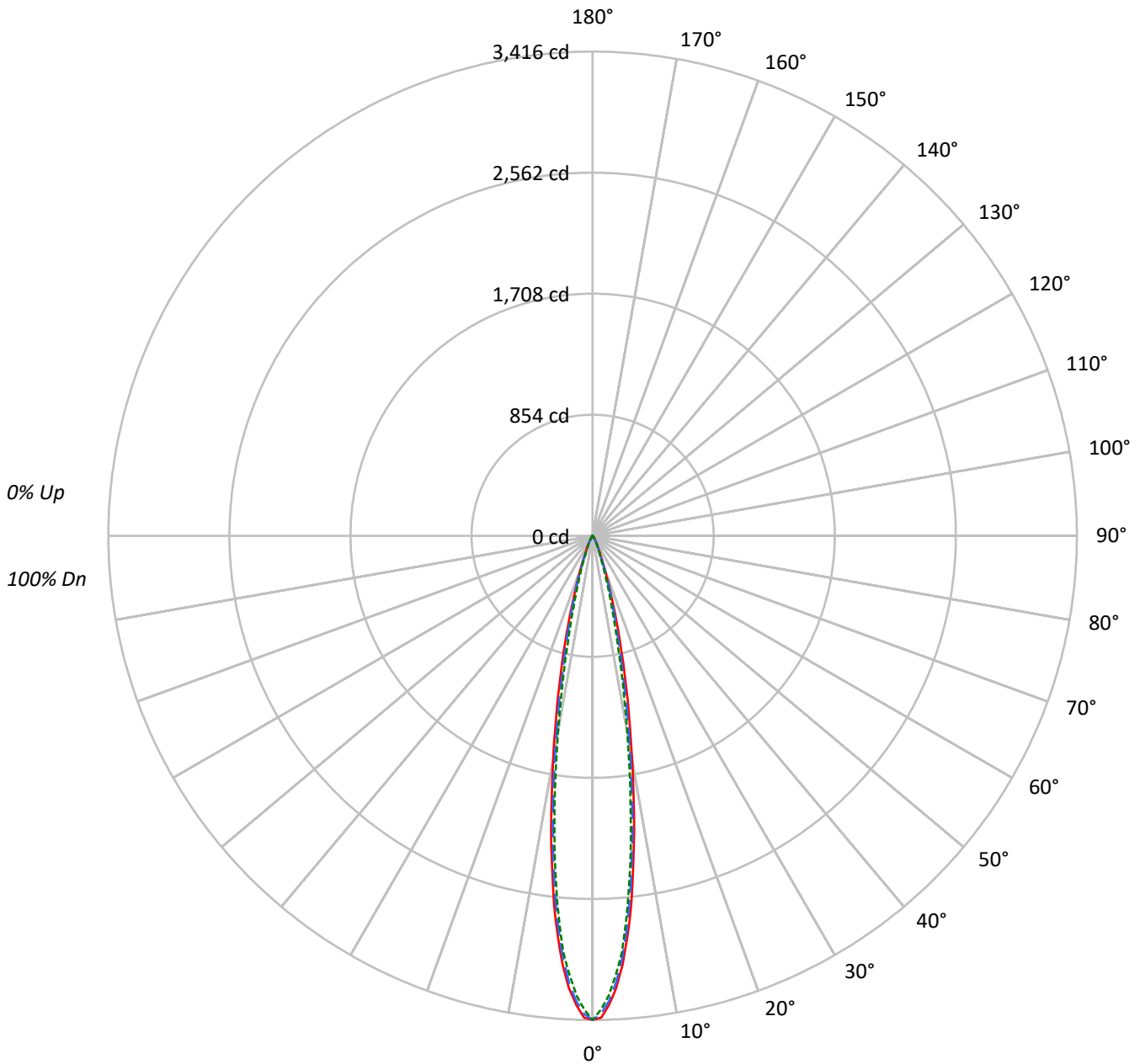
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1685077	1685077	1685077
5°	1402141	1376438	1348655
10°	803159	753663	703366
15°	357230	317237	265854
20°	129576	121858	96552
25°	49755	46434	40011
30°	21477	19939	17717
35°	10179	10179	8432
40°	5088	5281	4251
45°	2930	2791	2582
50°	1996	1842	1842
55°	1548	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°	222.1	48.1
10°-20°	179.8	38.9
20°-30°	43.3	9.4
30°-40°	11.1	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°	445.3	96.4
0°-40°	456.3	98.8
0°-60°	461.0	99.8
0°-90°	461.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	461.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3416	3416	3416	3416	3416	
5°	2831	2805	2779	2755	2723	229
15°	699	683	621	560	520	199
25°	91	92	85	77	74	47
35°	17	17	17	15	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°	3415.5	3415.5	3415.5	3415.5	3415.5
1°	3400.2	3376.5	3373.6	3388.3	3344.9
2°	3313.3	3296.4	3286.7	3295.3	3246.1
3°	3193.9	3177.6	3160.0	3160.2	3105.2
4°	3031.4	3018.5	2988.7	2979.8	2947.9
5°	2831.2	2805.1	2779.3	2755.1	2723.2
6°	2609.9	2576.2	2539.3	2503.3	2470.6
7°	2349.7	2327.3	2278.6	2229.3	2201.6
8°	2105.0	2068.9	2012.0	1950.3	1926.9
9°	1841.8	1816.0	1750.7	1679.0	1655.6
10°	1603.2	1576.3	1504.4	1424.6	1404.0
11°	1379.3	1354.0	1279.2	1195.4	1173.5
12°	1189.9	1154.0	1068.2	995.5	974.1
13°	1001.2	976.8	895.4	823.4	782.1
14°	840.8	820.5	746.8	683.6	639.8
15°	699.4	682.8	621.1	559.5	520.5
16°	573.7	563.4	514.7	455.2	423.3
17°	465.5	456.0	424.9	370.1	343.2
18°	375.9	374.6	348.8	301.3	277.4
19°	309.3	308.7	285.0	245.2	225.5
20°	246.8	250.2	232.1	197.3	183.9
21°	201.3	203.1	188.6	162.3	150.1
22°	163.8	165.2	155.7	134.1	127.5
23°	134.3	135.1	127.2	111.2	105.4
24°	110.6	111.2	104.0	92.7	87.7
25°	91.4	91.9	85.3	77.4	73.5
26°	75.9	76.4	70.6	65.1	61.1
27°	63.0	64.0	58.2	54.8	50.6
28°	53.7	54.0	48.7	46.6	42.7
29°	44.0	45.6	41.1	39.2	36.4
30°	37.7	38.5	35.0	33.7	31.1
32.5°	25.0	25.6	24.0	22.9	20.8
35°	16.9	17.1	16.9	15.3	14.0
37.5°	11.6	11.6	11.9	10.0	9.5
40°	7.9	7.9	8.2	6.8	6.6
42.5°	5.8	5.8	5.5	4.7	4.7
45°	4.2	4.2	4.0	3.7	3.7
47.5°	3.4	3.2	2.9	2.9	2.9
50°	2.6	2.6	2.4	2.1	2.4
52.5°	2.1	2.1	1.8	1.8	1.8
55°	1.8	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)