

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: P282657

Luminaire Tested: **LDA2B059730D010 EU2B05NFL259730 2LBALPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282657  
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: LDA2B059730D010 EU2B05NFL259730 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: 491.6 lumens  
Efficiency: N/A  
Efficacy: 70.2 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

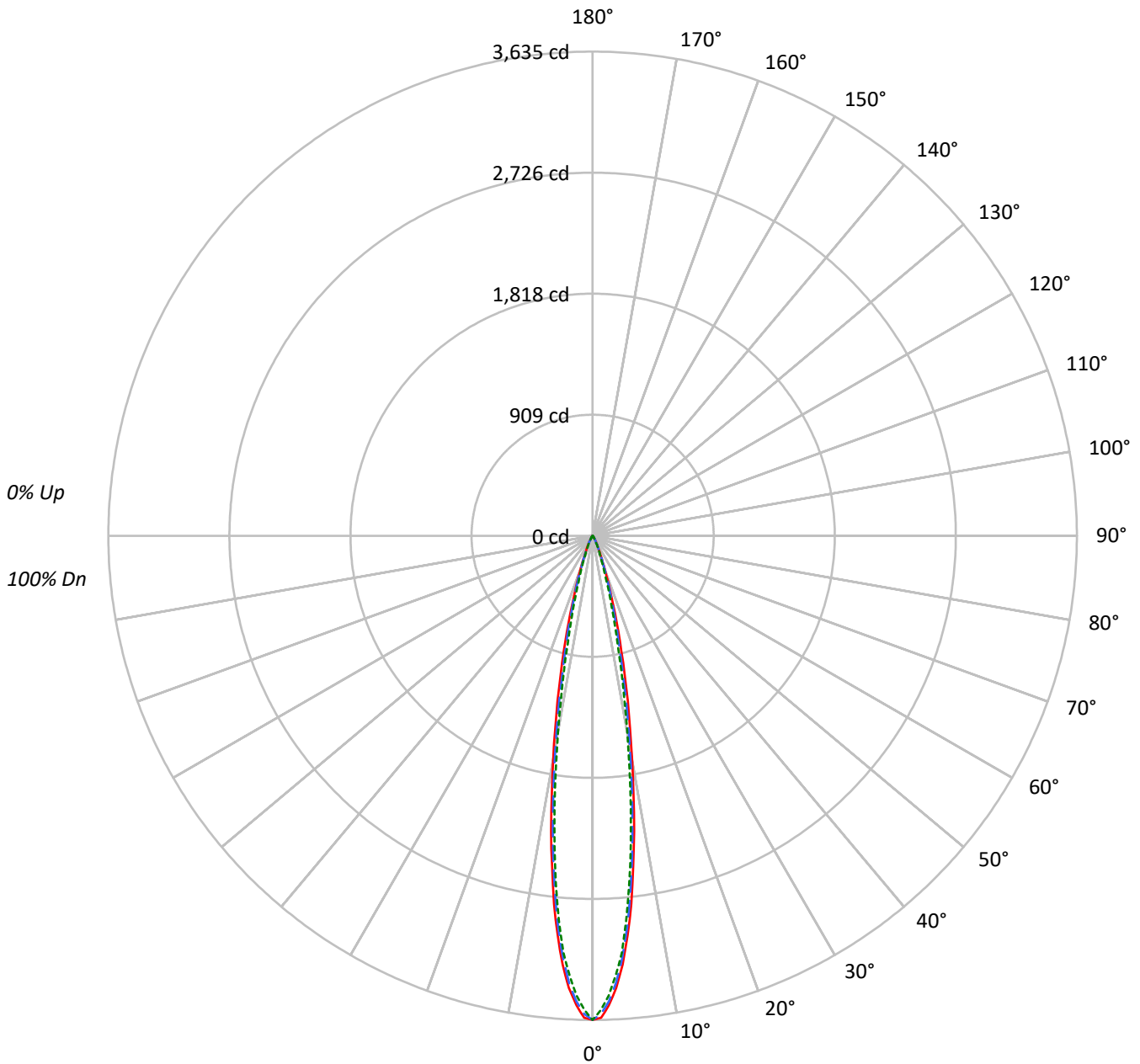
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1793419	1793419	1793419
5°	1492276	1464939	1435372
10°	854760	802107	748603
15°	380163	337667	282964
20°	137924	129681	102747
25°	52967	49428	42569
30°	22844	21249	18857
35°	10781	10781	8974
40°	5410	5603	4508
45°	3140	2930	2721
50°	2149	1919	1919
55°	1720	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°	236.4	48.1
10°-20°	191.3	38.9
20°-30°	46.1	9.4
30°-40°	11.8	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°	473.9	96.4
0°-40°	485.6	98.8
0°-60°	490.6	99.8
0°-90°	491.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	491.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3635	3635	3635	3635	3635	
5°	3013	2986	2958	2932	2898	244
15°	744	727	661	596	554	212
25°	97	98	91	82	78	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	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3635.1	3635.1	3635.1	3635.1	3635.1
1°	3618.8	3593.6	3590.5	3606.2	3559.9
2°	3526.3	3508.3	3498.0	3507.2	3454.8
3°	3399.3	3381.9	3363.1	3363.4	3304.8
4°	3226.3	3212.6	3180.9	3171.3	3137.4
5°	3013.2	2985.5	2958.0	2932.2	2898.3
6°	2777.7	2741.8	2702.6	2664.2	2629.4
7°	2500.7	2476.9	2425.0	2372.6	2343.2
8°	2240.3	2201.9	2141.3	2075.7	2050.8
9°	1960.2	1932.8	1863.2	1787.0	1762.0
10°	1706.2	1677.6	1601.1	1516.1	1494.3
11°	1467.9	1441.0	1361.4	1272.2	1249.0
12°	1266.4	1228.2	1136.8	1059.5	1036.7
13°	1065.6	1039.5	952.9	876.4	832.4
14°	894.9	873.3	794.8	727.5	681.0
15°	744.3	726.7	661.1	595.5	554.0
16°	610.6	599.7	547.8	484.4	450.5
17°	495.4	485.3	452.2	393.9	365.3
18°	400.1	398.7	371.2	320.7	295.2
19°	329.1	328.6	303.3	261.0	240.0
20°	262.7	266.3	247.0	210.0	195.7
21°	214.2	216.2	200.7	172.7	159.8
22°	174.4	175.8	165.7	142.7	135.7
23°	143.0	143.8	135.4	118.3	112.1
24°	117.7	118.3	110.7	98.7	93.4
25°	97.3	97.8	90.8	82.4	78.2
26°	80.7	81.3	75.1	69.2	65.0
27°	67.0	68.1	62.0	58.3	53.8
28°	57.2	57.5	51.9	49.6	45.4
29°	46.8	48.5	43.7	41.8	38.7
30°	40.1	40.9	37.3	35.9	33.1
32.5°	26.6	27.2	25.5	24.4	22.1
35°	17.9	18.2	17.9	16.3	14.9
37.5°	12.3	12.3	12.6	10.7	10.1
40°	8.4	8.4	8.7	7.3	7.0
42.5°	6.2	6.2	5.9	5.0	5.0
45°	4.5	4.5	4.2	3.9	3.9
47.5°	3.6	3.4	3.1	3.1	3.1
50°	2.8	2.8	2.5	2.2	2.5
52.5°	2.2	2.2	2.0	2.0	2.0
55°	2.0	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)