

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: P282620

Luminaire Tested: **LDA2B058027D010 EU2B05NFL258027 2LBALPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282620  
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: LDA2B058027D010 EU2B05NFL258027 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: 660.8 lumens  
Efficiency: N/A  
Efficacy: 94.4 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

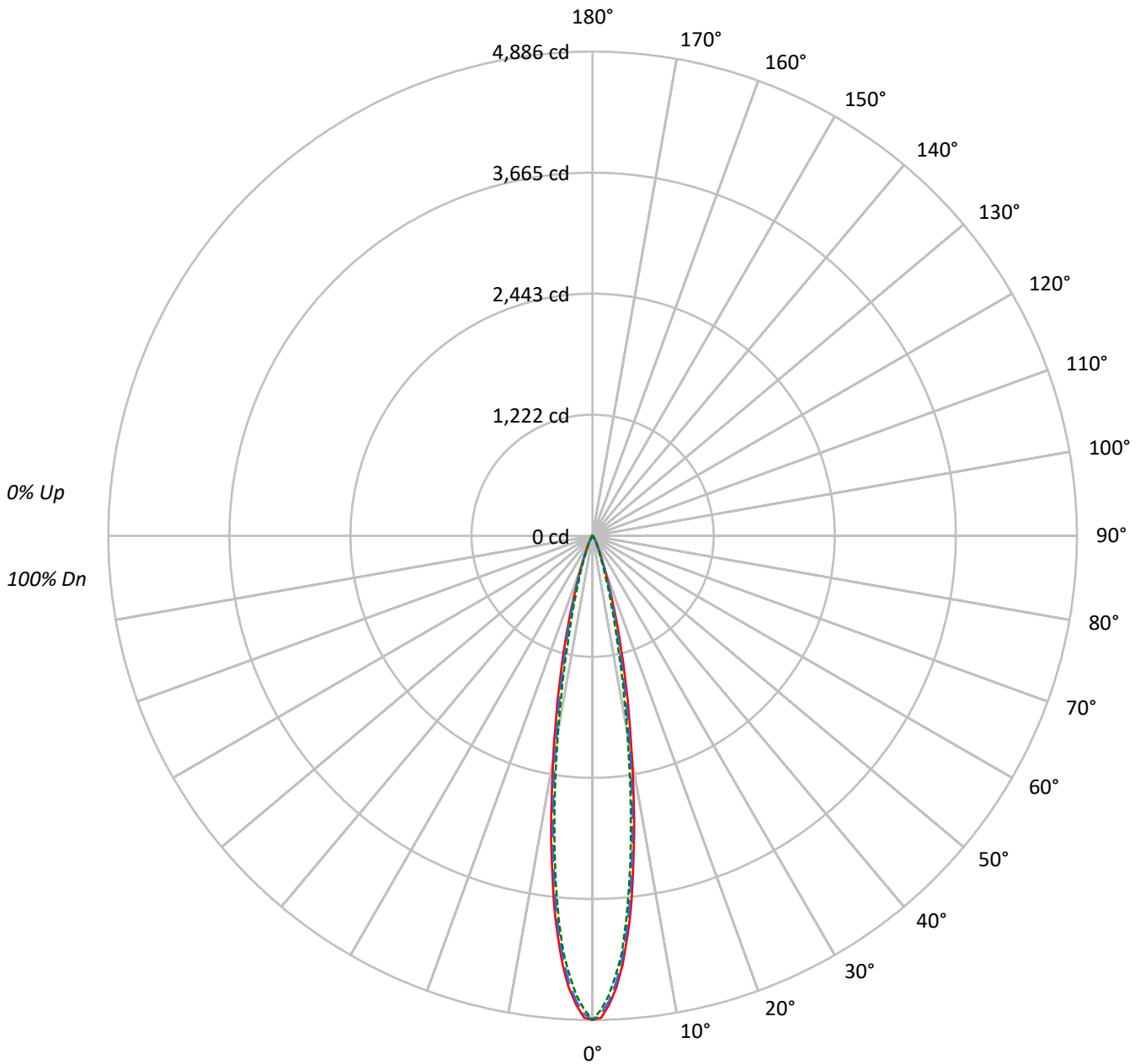
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2410368	2410368	2410368
5°	2005698	1968901	1929183
10°	1148831	1078043	1006154
15°	510970	453815	380316
20°	185386	174308	138081
25°	71203	66467	57213
30°	30706	28541	25351
35°	14515	14515	12046
40°	7278	7535	6054
45°	4186	3977	3698
50°	2917	2610	2610
55°	2236	1634	1978
60°	1875	1085	1480
65°	1284	934	1284
70°	1154	577	1154
75°	762	762	762
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	317.8	48.1
10°-20°	257.1	38.9
20°-30°	62.0	9.4
30°-40°	15.8	2.4
40°-50°	4.7	0.7
50°-60°	2.0	0.3
60°-70°	1.0	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°	636.9	96.4
0°-40°	652.7	98.8
0°-60°	659.4	99.8
0°-90°	660.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	660.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4886	4886	4886	4886	4886	
5°	4050	4013	3976	3941	3895	327
15°	1000	977	888	800	745	285
25°	131	132	122	111	105	68
35°	24	24	24	22	20	17
45°	6	6	6	5	5	5
55°	3	2	2	2	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°	4885.6	4885.6	4885.6	4885.6	4885.6
1°	4863.8	4829.9	4825.7	4846.8	4784.6
2°	4739.4	4715.3	4701.4	4713.8	4643.3
3°	4568.7	4545.4	4520.1	4520.5	4441.7
4°	4336.2	4317.8	4275.2	4262.4	4216.8
5°	4049.9	4012.6	3975.6	3941.0	3895.4
6°	3733.4	3685.1	3632.4	3580.8	3534.0
7°	3361.1	3329.0	3259.3	3188.9	3149.3
8°	3011.0	2959.4	2878.0	2789.8	2756.3
9°	2634.6	2597.7	2504.2	2401.7	2368.2
10°	2293.2	2254.8	2151.9	2037.7	2008.4
11°	1972.9	1936.8	1829.8	1709.9	1678.7
12°	1702.0	1650.8	1527.9	1423.9	1393.4
13°	1432.2	1397.2	1280.8	1177.9	1118.7
14°	1202.8	1173.7	1068.2	977.8	915.3
15°	1000.4	976.7	888.5	800.3	744.6
16°	820.7	806.0	736.3	651.1	605.5
17°	665.8	652.2	607.8	529.4	491.0
18°	537.7	535.8	498.9	431.1	396.8
19°	442.4	441.6	407.7	350.8	322.5
20°	353.1	358.0	332.0	282.2	263.0
21°	287.9	290.5	269.8	232.1	214.8
22°	234.4	236.3	222.7	191.8	182.4
23°	192.2	193.3	182.0	159.0	150.7
24°	158.3	159.0	148.8	132.6	125.5
25°	130.8	131.5	122.1	110.8	105.1
26°	108.5	109.3	101.0	93.1	87.4
27°	90.1	91.6	83.3	78.4	72.3
28°	76.9	77.2	69.7	66.7	61.0
29°	62.9	65.2	58.8	56.1	52.0
30°	53.9	55.0	50.1	48.2	44.5
32.5°	35.8	36.5	34.3	32.8	29.8
35°	24.1	24.5	24.1	21.9	20.0
37.5°	16.6	16.6	17.0	14.3	13.6
40°	11.3	11.3	11.7	9.8	9.4
42.5°	8.3	8.3	7.9	6.8	6.8
45°	6.0	6.0	5.7	5.3	5.3
47.5°	4.9	4.5	4.1	4.1	4.1
50°	3.8	3.8	3.4	3.0	3.4
52.5°	3.0	3.0	2.6	2.6	2.6
55°	2.6	2.3	1.9	1.9	2.3
57.5°	1.9	1.9	1.5	1.5	1.9
60°	1.9	1.5	1.1	1.5	1.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1.1	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.4	0.4	0.8
72.5°	0.4	0.4	0.4	0.4	0.4
75°	0.4	0.4	0.4	0.4	0.4
77.5°	0.4	0.4	0.0	0.0	0.4
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°	1.5	1.1	1.1	1.1	1.1
65°	1.1	1.1	0.8	0.8	1.1



(END OF REPORT)