

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: P282284

Luminaire Tested: **LDA2B158027D010 EU2B15NFL258027 2LBAPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282284  
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: LDA2B158027D010 EU2B15NFL258027 2LBAPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MW  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1295.2 lumens  
Efficiency: N/A  
Efficacy: 91.9 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

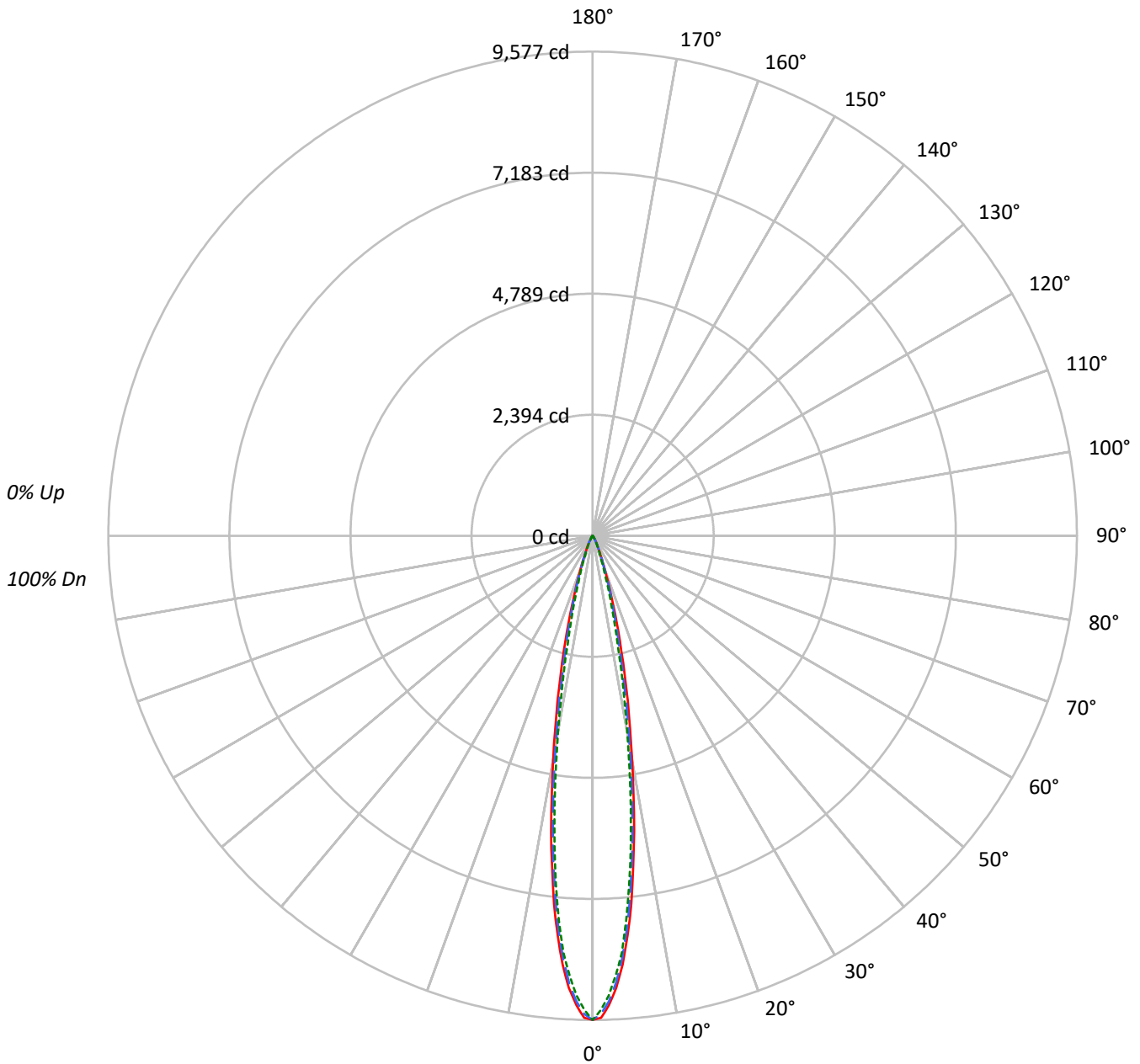
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4724975	4724975	4724975
5°	3931662	3859603	3781701
10°	2252023	2113253	1972279
15°	1001663	889601	745463
20°	363370	341634	270703
25°	139521	130266	112194
30°	60159	55943	49677
35°	28488	28488	23549
40°	14298	14748	11915
45°	8233	7745	7187
50°	5680	5066	5066
55°	4473	3183	3785
60°	3651	2171	2960
65°	2568	1751	2568
70°	2164	1010	2164
75°	1334	1334	1334
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	622.9	48.1
10°-20°	504.1	38.9
20°-30°	121.6	9.4
30°-40°	31.0	2.4
40°-50°	9.2	0.7
50°-60°	4.0	0.3
60°-70°	1.9	0.1
70°-80°	0.6	0.0
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°	1248.5	96.4
0°-40°	1279.5	98.8
0°-60°	1292.7	99.8
0°-90°	1295.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1295.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9577	9577	9577	9577	9577	
5°	7939	7866	7793	7725	7636	642
15°	1961	1914	1742	1569	1460	559
25°	256	258	239	217	206	132
35°	47	48	47	43	39	33
45°	12	12	11	10	10	10
55°	5	4	4	4	4	5
65°	2	2	2	2	2	2
75°	1	1	1	1	1	1
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°	9577.1	9577.1	9577.1	9577.1	9577.1
1°	9534.3	9467.8	9459.7	9501.0	9379.2
2°	9290.5	9243.3	9215.9	9240.3	9102.2
3°	8955.9	8910.1	8860.6	8861.4	8707.0
4°	8500.2	8464.0	8380.5	8355.4	8266.0
5°	7938.8	7865.7	7793.3	7725.4	7636.0
6°	7318.4	7223.8	7120.4	7019.2	6927.6
7°	6588.6	6525.8	6389.2	6251.1	6173.5
8°	5902.4	5801.2	5641.7	5468.8	5403.1
9°	5164.5	5092.1	4909.0	4708.1	4642.3
10°	4495.3	4420.0	4218.3	3994.5	3936.9
11°	3867.5	3796.6	3586.8	3351.9	3290.6
12°	3336.4	3236.0	2995.2	2791.3	2731.5
13°	2807.5	2738.9	2510.6	2309.0	2193.0
14°	2357.7	2300.8	2094.0	1916.8	1794.1
15°	1961.1	1914.5	1741.7	1568.9	1459.5
16°	1608.7	1579.9	1443.3	1276.4	1187.0
17°	1305.2	1278.6	1191.4	1037.8	962.4
18°	1054.0	1050.3	978.0	845.0	777.8
19°	867.2	865.7	799.2	687.7	632.3
20°	692.1	701.7	650.7	553.2	515.6
21°	564.3	569.5	528.9	455.0	421.0
22°	459.4	463.1	436.5	376.0	357.5
23°	376.7	378.9	356.8	311.7	295.5
24°	310.2	311.7	291.8	260.0	246.0
25°	256.3	257.8	239.3	217.2	206.1
26°	212.7	214.2	198.0	182.4	171.4
27°	176.5	179.5	163.2	153.6	141.8
28°	150.7	151.4	136.6	130.7	119.7
29°	123.4	127.8	115.2	110.1	101.9
30°	105.6	107.8	98.2	94.5	87.2
32.5°	70.2	71.6	67.2	64.3	58.4
35°	47.3	48.0	47.3	42.8	39.1
37.5°	32.5	32.5	33.2	28.1	26.6
40°	22.2	22.2	22.9	19.2	18.5
42.5°	16.2	16.2	15.5	13.3	13.3
45°	11.8	11.8	11.1	10.3	10.3
47.5°	9.6	8.9	8.1	8.1	8.1
50°	7.4	7.4	6.6	5.9	6.6
52.5°	5.9	5.9	5.2	5.2	5.2
55°	5.2	4.4	3.7	3.7	4.4
57.5°	3.7	3.7	3.0	3.0	3.7
60°	3.7	3.0	2.2	3.0	3.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	2.2	1.5	1.5	1.5	1.5
70°	1.5	1.5	0.7	0.7	1.5
72.5°	0.7	0.7	0.7	0.7	0.7
75°	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.7	0.0	0.0	0.7
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°	3.0	2.2	2.2	2.2	2.2
65°	2.2	2.2	1.5	1.5	2.2



(END OF REPORT)