

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: P282296

Luminaire Tested: **LDA2B158035D010 EU2B15NFL258035 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282296
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: LDA2B158035D010 EU2B15NFL258035 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: 1334.9 lumens
Efficiency: N/A
Efficacy: 94.7 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

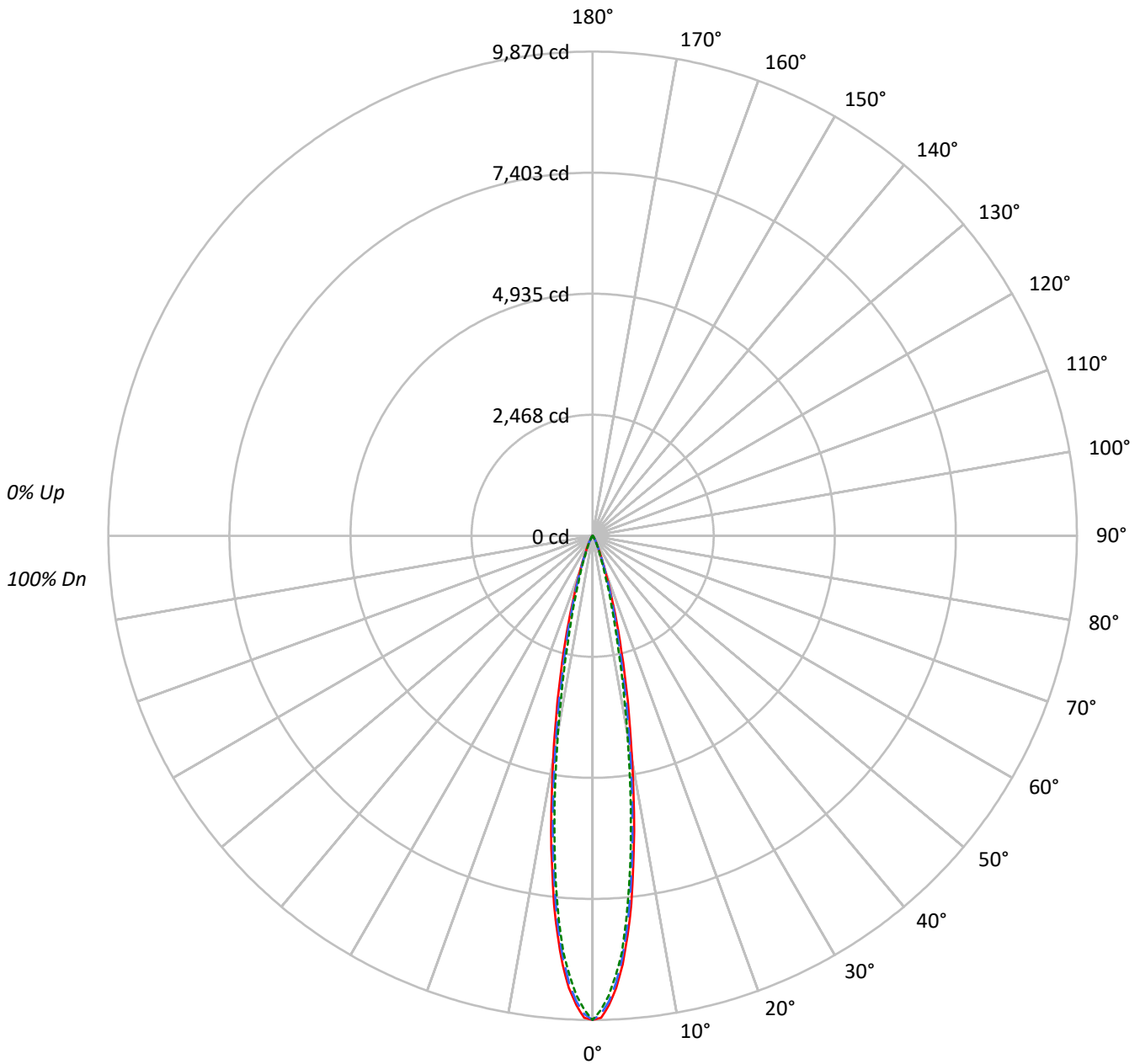
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P282296

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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																			
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97																			
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95																			
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92																			
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90																			
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88																			
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86																			
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84																			
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83																			
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81																			
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4869530	4869530	4869530
5°	4051957	3977670	3897391
10°	2320906	2177929	2032596
15°	1032309	916824	768294
20°	374500	352082	278946
25°	143767	134240	115623
30°	62039	57652	51158
35°	29331	29331	24272
40°	14684	15199	12237
45°	8512	7954	7466
50°	5833	5296	5296
55°	4559	3269	3957
60°	3750	2269	2960
65°	2685	1751	2685
70°	2164	1154	2164
75°	1525	1525	1525
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	641.9	48.1
10°-20°	519.5	38.9
20°-30°	125.3	9.4
30°-40°	31.9	2.4
40°-50°	9.5	0.7
50°-60°	4.1	0.3
60°-70°	2.0	0.1
70°-80°	0.7	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°	1286.7	96.4
0°-40°	1318.6	98.8
0°-60°	1332.2	99.8
0°-90°	1334.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1334.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9870	9870	9870	9870	9870	
5°	8182	8106	8032	7962	7870	662
15°	2021	1973	1795	1617	1504	576
25°	264	266	247	224	212	136
35°	49	50	49	44	40	34
45°	12	12	11	11	11	10
55°	5	5	4	4	5	5
65°	2	2	2	2	2	3
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9870.1	9870.1	9870.1	9870.1	9870.1
1°	9825.9	9757.4	9749.1	9791.7	9666.1
2°	9574.7	9526.0	9497.8	9523.0	9380.6
3°	9229.9	9182.7	9131.7	9132.5	8973.4
4°	8760.2	8722.9	8636.9	8611.0	8518.9
5°	8181.7	8106.3	8031.7	7961.7	7869.6
6°	7542.3	7444.8	7338.2	7234.0	7139.6
7°	6790.2	6725.5	6584.6	6442.3	6362.3
8°	6083.0	5978.7	5814.3	5636.1	5568.4
9°	5322.5	5247.9	5059.1	4852.1	4784.3
10°	4632.8	4555.2	4347.4	4116.7	4057.3
11°	3985.8	3912.7	3696.5	3454.5	3391.3
12°	3438.5	3334.9	3086.8	2876.7	2815.0
13°	2893.4	2822.6	2587.4	2379.6	2260.1
14°	2429.8	2371.2	2158.1	1975.4	1849.0
15°	2021.1	1973.1	1795.0	1616.8	1504.2
16°	1658.0	1628.3	1487.4	1315.4	1223.3
17°	1345.1	1317.7	1227.9	1069.5	991.9
18°	1086.3	1082.5	1007.9	870.8	801.6
19°	893.7	892.2	823.6	708.7	651.6
20°	713.3	723.2	670.6	570.2	531.3
21°	581.6	586.9	545.0	468.9	433.9
22°	473.5	477.3	449.9	387.5	368.4
23°	388.2	390.5	367.7	321.2	304.5
24°	319.7	321.2	300.7	268.0	253.5
25°	264.1	265.7	246.6	223.8	212.4
26°	219.2	220.8	204.0	188.0	176.6
27°	181.9	185.0	168.2	158.3	146.2
28°	155.3	156.1	140.8	134.7	123.3
29°	127.1	131.7	118.8	113.4	105.0
30°	108.9	111.1	101.2	97.4	89.8
32.5°	72.3	73.8	69.3	66.2	60.1
35°	48.7	49.5	48.7	44.2	40.3
37.5°	33.5	33.5	34.3	28.9	27.4
40°	22.8	22.8	23.6	19.8	19.0
42.5°	16.7	16.7	16.0	13.7	13.7
45°	12.2	12.2	11.4	10.7	10.7
47.5°	9.9	9.1	8.4	8.4	8.4
50°	7.6	7.6	6.9	6.1	6.9
52.5°	6.1	6.1	5.3	5.3	5.3
55°	5.3	4.6	3.8	3.8	4.6
57.5°	3.8	3.8	3.0	3.0	3.8
60°	3.8	3.0	2.3	3.0	3.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	2.3	1.5	1.5	1.5	1.5
70°	1.5	1.5	0.8	0.8	1.5
72.5°	0.8	0.8	0.8	0.8	0.8
75°	0.8	0.8	0.8	0.8	0.8
77.5°	0.8	0.8	0.0	0.0	0.8
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	2.3	2.3	2.3	2.3
65°	2.3	2.3	1.5	1.5	2.3



(END OF REPORT)