

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: P282152

Luminaire Tested: **LDA2B059027D010 EU2B05NFL259027 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282152
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: LDA2B059027D010 EU2B05NFL259027 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 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: 564.6 lumens
Efficiency: N/A
Efficacy: 80.7 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

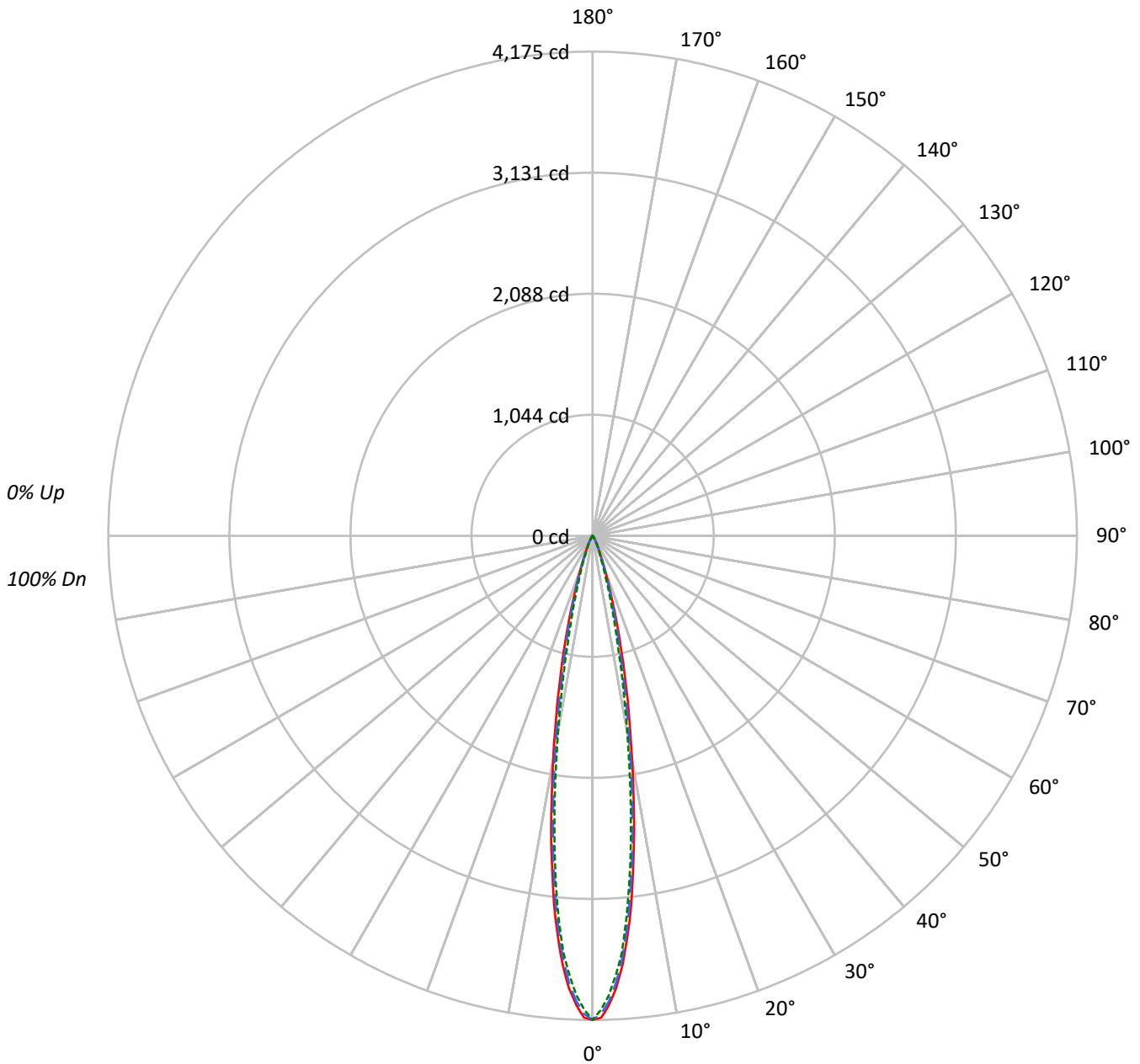
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2059785	2059785	2059785
5°	1713949	1682550	1648576
10°	981756	921239	859819
15°	436654	387824	325000
20°	158400	148949	118026
25°	60806	56777	48884
30°	26206	24383	21648
35°	12407	12407	10299
40°	6247	6440	5152
45°	3628	3349	3140
50°	2456	2226	2226
55°	1978	1376	1634
60°	1579	987	1283
65°	1167	700	1167
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°	271.5	48.1
10°-20°	219.7	38.9
20°-30°	53.0	9.4
30°-40°	13.5	2.4
40°-50°	4.0	0.7
50°-60°	1.7	0.3
60°-70°	0.8	0.1
70°-80°	0.3	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°	544.3	96.4
0°-40°	557.8	98.8
0°-60°	563.5	99.8
0°-90°	564.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	564.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4175	4175	4175	4175	4175	
5°	3461	3429	3397	3368	3329	280
15°	855	835	759	684	636	244
25°	112	112	104	95	90	58
35°	21	21	21	19	17	14
45°	5	5	5	4	4	4
55°	2	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°	4175.0	4175.0	4175.0	4175.0	4175.0
1°	4156.4	4127.4	4123.8	4141.9	4088.7
2°	4050.1	4029.5	4017.6	4028.2	3968.0
3°	3904.2	3884.3	3862.7	3863.0	3795.7
4°	3705.6	3689.8	3653.4	3642.4	3603.5
5°	3460.8	3429.0	3397.4	3367.8	3328.8
6°	3190.4	3149.1	3104.1	3059.9	3020.0
7°	2872.2	2844.9	2785.3	2725.1	2691.3
8°	2573.1	2529.0	2459.4	2384.1	2355.4
9°	2251.4	2219.9	2140.0	2052.4	2023.8
10°	1959.7	1926.8	1838.9	1741.4	1716.3
11°	1686.0	1655.1	1563.6	1461.2	1434.5
12°	1454.5	1410.7	1305.7	1216.8	1190.7
13°	1223.9	1194.0	1094.5	1006.6	956.0
14°	1027.8	1003.0	912.9	835.6	782.1
15°	854.9	834.6	759.3	683.9	636.3
16°	701.3	688.8	629.2	556.4	517.5
17°	569.0	557.4	519.4	452.4	419.6
18°	459.5	457.9	426.3	368.4	339.1
19°	378.0	377.4	348.4	299.8	275.6
20°	301.7	305.9	283.7	241.2	224.8
21°	246.0	248.3	230.6	198.4	183.5
22°	200.3	201.9	190.3	163.9	155.8
23°	164.2	165.2	155.5	135.9	128.8
24°	135.2	135.9	127.2	113.3	107.2
25°	111.7	112.4	104.3	94.7	89.8
26°	92.7	93.4	86.3	79.5	74.7
27°	77.0	78.2	71.2	67.0	61.8
28°	65.7	66.0	59.6	57.0	52.2
29°	53.8	55.7	50.2	48.0	44.4
30°	46.0	47.0	42.8	41.2	38.0
32.5°	30.6	31.2	29.3	28.0	25.4
35°	20.6	20.9	20.6	18.7	17.1
37.5°	14.2	14.2	14.5	12.2	11.6
40°	9.7	9.7	10.0	8.4	8.0
42.5°	7.1	7.1	6.8	5.8	5.8
45°	5.2	5.2	4.8	4.5	4.5
47.5°	4.2	3.9	3.5	3.5	3.5
50°	3.2	3.2	2.9	2.6	2.9
52.5°	2.6	2.6	2.3	2.3	2.3
55°	2.3	1.9	1.6	1.6	1.9
57.5°	1.6	1.6	1.3	1.3	1.6
60°	1.6	1.3	1.0	1.3	1.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.0	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°	1.3	1.0	1.0	1.0	1.0
65°	1.0	1.0	0.6	0.6	1.0



(END OF REPORT)