

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: P282182

Luminaire Tested: **LDA2B059727D010 EU2B05NFL259727 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282182
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: LDA2B059727D010 EU2B05NFL259727 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: 508.1 lumens
Efficiency: N/A
Efficacy: 72.6 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

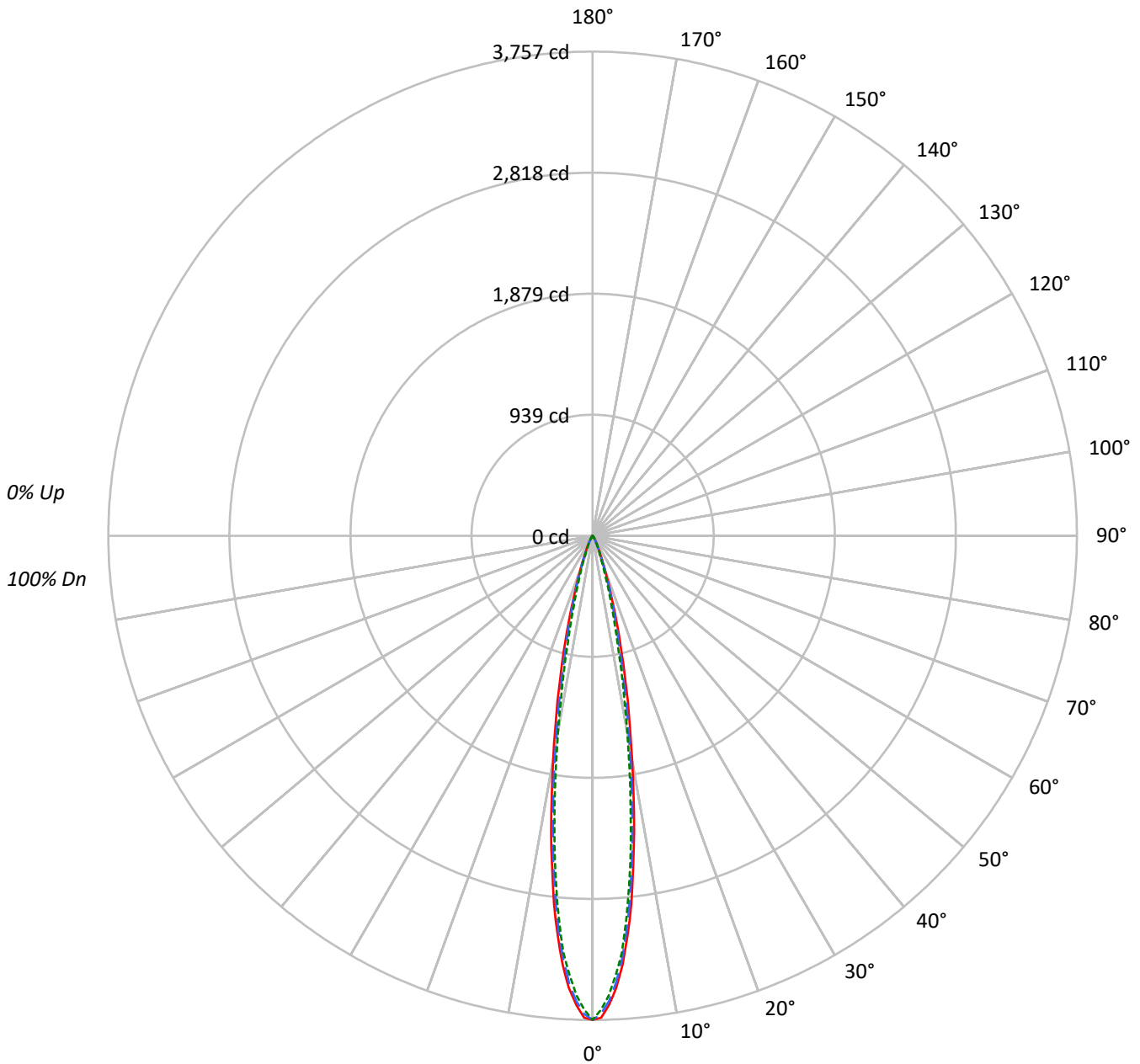
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1853363	1853363	1853363
5°	1542197	1513919	1483362
10°	883365	828909	773602
15°	392881	348955	292413
20°	142544	133986	106160
25°	54709	51116	43985
30°	23585	21933	19483
35°	11142	11142	9275
40°	5603	5796	4637
45°	3210	3000	2861
50°	2226	1996	1996
55°	1720	1204	1462
60°	1381	888	1184
65°	1051	700	1051
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°	244.3	48.1
10°-20°	197.7	38.9
20°-30°	47.7	9.4
30°-40°	12.1	2.4
40°-50°	3.6	0.7
50°-60°	1.5	0.3
60°-70°	0.8	0.2
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°	489.7	96.4
0°-40°	501.9	98.8
0°-60°	507.0	99.8
0°-90°	508.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	508.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3757	3757	3757	3757	3757	
5°	3114	3085	3057	3030	2995	252
15°	769	751	683	615	572	219
25°	100	101	94	85	81	52
35°	18	19	18	17	15	13
45°	5	5	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°	3756.6	3756.6	3756.6	3756.6	3756.6
1°	3739.8	3713.7	3710.5	3726.7	3678.9
2°	3644.2	3625.6	3614.9	3624.5	3570.3
3°	3512.9	3495.0	3475.6	3475.8	3415.3
4°	3334.2	3320.0	3287.2	3277.4	3242.3
5°	3114.0	3085.3	3056.9	3030.2	2995.2
6°	2870.6	2833.5	2793.0	2753.3	2717.3
7°	2584.4	2559.7	2506.1	2452.0	2421.5
8°	2315.2	2275.5	2212.9	2145.1	2119.3
9°	2025.8	1997.4	1925.5	1846.7	1820.9
10°	1763.3	1733.7	1654.6	1566.8	1544.2
11°	1517.0	1489.2	1406.9	1314.8	1290.7
12°	1308.7	1269.3	1174.8	1094.9	1071.4
13°	1101.2	1074.3	984.8	905.7	860.2
14°	924.8	902.5	821.4	751.8	703.7
15°	769.2	751.0	683.2	615.4	572.5
16°	631.0	619.7	566.1	500.6	465.6
17°	511.9	501.5	467.3	407.1	377.5
18°	413.4	412.0	383.6	331.4	305.1
19°	340.1	339.6	313.5	269.7	248.0
20°	271.5	275.2	255.2	217.0	202.2
21°	221.4	223.4	207.4	178.5	165.1
22°	180.2	181.7	171.2	147.5	140.2
23°	147.8	148.6	139.9	122.3	115.9
24°	121.7	122.3	114.4	102.0	96.5
25°	100.5	101.1	93.9	85.2	80.8
26°	83.4	84.0	77.6	71.6	67.2
27°	69.2	70.4	64.0	60.3	55.6
28°	59.1	59.4	53.6	51.3	46.9
29°	48.4	50.1	45.2	43.2	40.0
30°	41.4	42.3	38.5	37.1	34.2
32.5°	27.5	28.1	26.4	25.2	22.9
35°	18.5	18.8	18.5	16.8	15.4
37.5°	12.7	12.7	13.0	11.0	10.4
40°	8.7	8.7	9.0	7.5	7.2
42.5°	6.4	6.4	6.1	5.2	5.2
45°	4.6	4.6	4.3	4.1	4.1
47.5°	3.8	3.5	3.2	3.2	3.2
50°	2.9	2.9	2.6	2.3	2.6
52.5°	2.3	2.3	2.0	2.0	2.0
55°	2.0	1.7	1.4	1.4	1.7
57.5°	1.4	1.4	1.2	1.2	1.4
60°	1.4	1.2	0.9	1.2	1.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	0.9	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°	1.2	0.9	0.9	0.9	0.9
65°	0.9	0.9	0.6	0.6	0.9



(END OF REPORT)