

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: P282689

Luminaire Tested: **LDA2B109040D010 EU2B10NFL259040 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282689
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: LDA2B109040D010 EU2B10NFL259040 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1000 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: 782.4 lumens
Efficiency: N/A
Efficacy: 78.2 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

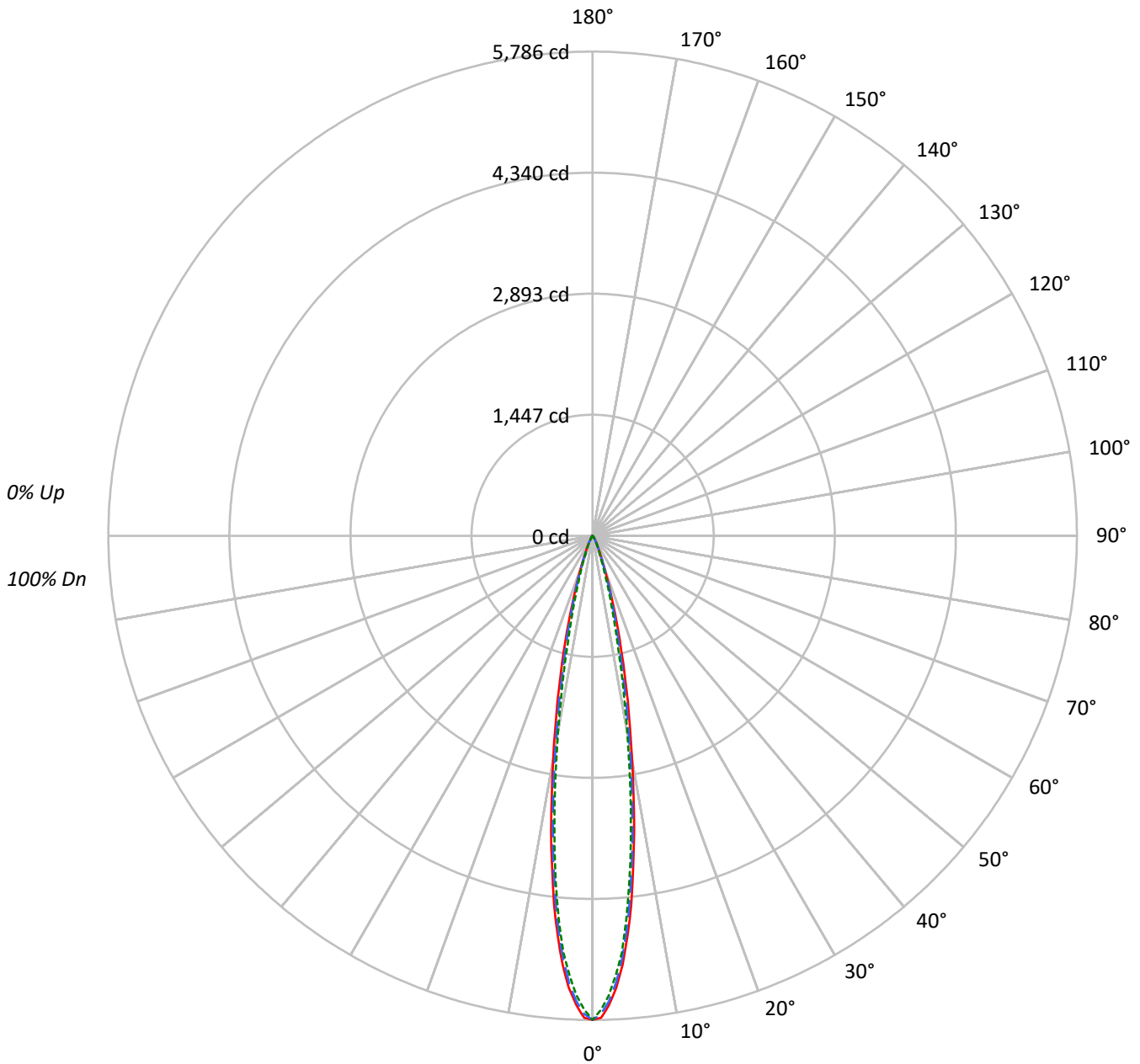
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2854443	2854443	2854443
5°	2375201	2331669	2284621
10°	1360492	1276679	1191513
15°	605104	537428	450342
20°	219513	206387	163545
25°	84268	78715	67773
30°	36346	33782	30022
35°	17225	17225	14214
40°	8630	8888	7213
45°	4954	4675	4326
50°	3454	3070	3070
55°	2666	1892	2322
60°	2171	1283	1776
65°	1518	1051	1518
70°	1298	577	1298
75°	762	762	762
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.3	48.1
10°-20°	304.5	38.9
20°-30°	73.4	9.4
30°-40°	18.7	2.4
40°-50°	5.6	0.7
50°-60°	2.4	0.3
60°-70°	1.1	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°	754.3	96.4
0°-40°	773.0	98.8
0°-60°	780.9	99.8
0°-90°	782.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	782.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5786	5786	5786	5786	5786	
5°	4796	4752	4708	4667	4613	388
15°	1185	1157	1052	948	882	338
25°	155	156	145	131	124	80
35°	29	29	29	26	24	20
45°	7	7	7	6	6	6
55°	3	3	2	2	3	3
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°	5785.7	5785.7	5785.7	5785.7	5785.7
1°	5759.8	5719.7	5714.8	5739.8	5666.1
2°	5612.6	5584.0	5567.5	5582.2	5498.8
3°	5410.5	5382.8	5352.9	5353.3	5260.1
4°	5135.1	5113.3	5062.8	5047.7	4993.7
5°	4796.0	4751.8	4708.1	4667.0	4613.1
6°	4421.2	4364.1	4301.6	4240.5	4185.1
7°	3980.3	3942.4	3859.8	3776.4	3729.5
8°	3565.8	3504.6	3408.3	3303.8	3264.1
9°	3120.0	3076.3	2965.6	2844.2	2804.5
10°	2715.7	2670.2	2548.4	2413.2	2378.4
11°	2336.4	2293.6	2166.9	2025.0	1987.9
12°	2015.6	1954.9	1809.4	1686.3	1650.1
13°	1696.1	1654.6	1516.7	1394.9	1324.8
14°	1424.3	1390.0	1265.0	1157.9	1083.9
15°	1184.7	1156.6	1052.2	947.8	881.7
16°	971.9	954.5	871.9	771.1	717.1
17°	788.5	772.4	719.8	626.9	581.4
18°	636.8	634.5	590.8	510.5	469.9
19°	523.9	523.0	482.8	415.4	382.0
20°	418.1	423.9	393.1	334.2	311.5
21°	340.9	344.0	319.5	274.9	254.3
22°	277.6	279.8	263.7	227.1	216.0
23°	227.6	228.9	215.5	188.3	178.5
24°	187.4	188.3	176.3	157.1	148.6
25°	154.8	155.7	144.6	131.2	124.5
26°	128.5	129.4	119.6	110.2	103.5
27°	106.6	108.4	98.6	92.8	85.7
28°	91.0	91.5	82.6	79.0	72.3
29°	74.5	77.2	69.6	66.5	61.6
30°	63.8	65.1	59.3	57.1	52.7
32.5°	42.4	43.3	40.6	38.8	35.3
35°	28.6	29.0	28.6	25.9	23.6
37.5°	19.6	19.6	20.1	17.0	16.1
40°	13.4	13.4	13.8	11.6	11.2
42.5°	9.8	9.8	9.4	8.0	8.0
45°	7.1	7.1	6.7	6.2	6.2
47.5°	5.8	5.4	4.9	4.9	4.9
50°	4.5	4.5	4.0	3.6	4.0
52.5°	3.6	3.6	3.1	3.1	3.1
55°	3.1	2.7	2.2	2.2	2.7
57.5°	2.2	2.2	1.8	1.8	2.2
60°	2.2	1.8	1.3	1.8	1.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.3	0.9	0.9	0.9	0.9
70°	0.9	0.9	0.4	0.4	0.9
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°	1.8	1.3	1.3	1.3	1.3
65°	1.3	1.3	0.9	0.9	1.3



(END OF REPORT)