

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: P282691

Luminaire Tested: **LDA2B109040D010 EU2B10NFL259040 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282691
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 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 784.3 lumens
Efficiency: N/A
Efficacy: 78.4 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

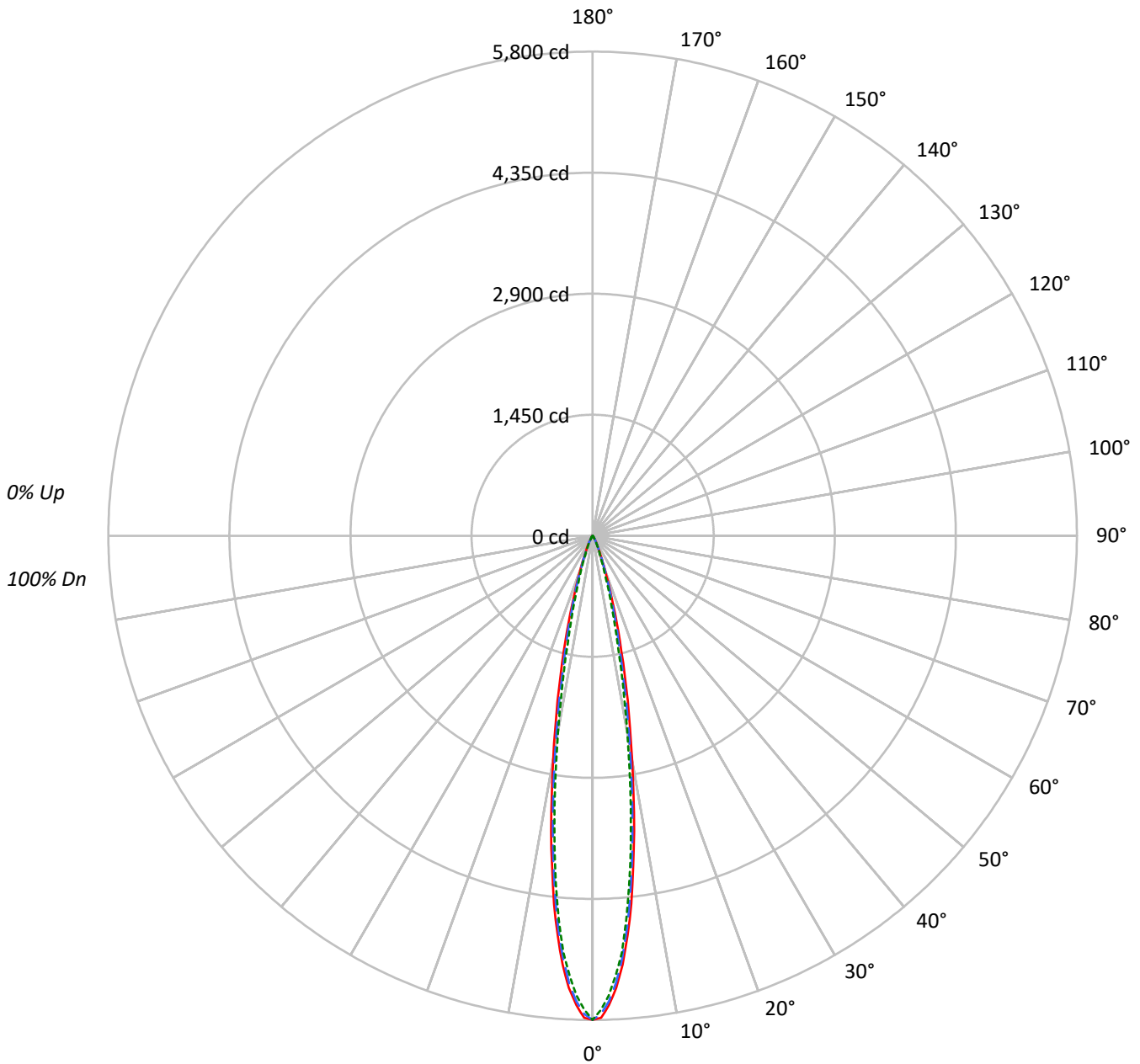
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2861449	2861449	2861449
5°	2380996	2337365	2290168
10°	1363848	1279785	1194419
15°	606585	538756	451466
20°	220038	206912	163913
25°	84485	78878	67937
30°	36460	33896	30079
35°	17225	17225	14274
40°	8630	8952	7213
45°	5024	4675	4396
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°	377.2	48.1
10°-20°	305.3	38.9
20°-30°	73.6	9.4
30°-40°	18.8	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°	756.1	96.4
0°-40°	774.9	98.8
0°-60°	782.8	99.8
0°-90°	784.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	784.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5800	5800	5800	5800	5800	
5°	4808	4764	4720	4678	4624	389
15°	1188	1159	1055	950	884	339
25°	155	156	145	132	125	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°	5799.9	5799.9	5799.9	5799.9	5799.9
1°	5773.9	5733.7	5728.8	5753.8	5680.0
2°	5626.3	5597.7	5581.1	5595.9	5512.3
3°	5423.7	5396.0	5366.0	5366.4	5272.9
4°	5147.7	5125.8	5075.2	5060.0	5005.9
5°	4807.7	4763.5	4719.6	4678.5	4624.3
6°	4432.0	4374.7	4312.1	4250.8	4195.4
7°	3990.0	3952.0	3869.3	3785.6	3738.7
8°	3574.5	3513.2	3416.6	3311.9	3272.1
9°	3127.6	3083.8	2972.9	2851.2	2811.4
10°	2722.4	2676.7	2554.6	2419.1	2384.2
11°	2342.1	2299.2	2172.2	2029.9	1992.8
12°	2020.5	1959.7	1813.9	1690.4	1654.2
13°	1700.2	1658.6	1520.4	1398.3	1328.1
14°	1427.8	1393.4	1268.1	1160.8	1086.5
15°	1187.6	1159.4	1054.8	950.1	883.9
16°	974.3	956.8	874.1	773.0	718.8
17°	790.4	774.3	721.5	628.5	582.9
18°	638.3	636.1	592.2	511.7	471.0
19°	525.1	524.3	484.0	416.4	382.9
20°	419.1	424.9	394.1	335.0	312.2
21°	341.7	344.9	320.3	275.5	255.0
22°	278.2	280.5	264.4	227.7	216.5
23°	228.1	229.5	216.1	188.8	178.9
24°	187.9	188.8	176.7	157.5	149.0
25°	155.2	156.1	144.9	131.5	124.8
26°	128.8	129.7	119.9	110.5	103.8
27°	106.9	108.7	98.9	93.0	85.9
28°	91.3	91.7	82.8	79.2	72.5
29°	74.7	77.4	69.8	66.6	61.7
30°	64.0	65.3	59.5	57.3	52.8
32.5°	42.5	43.4	40.7	38.9	35.3
35°	28.6	29.1	28.6	25.9	23.7
37.5°	19.7	19.7	20.1	17.0	16.1
40°	13.4	13.4	13.9	11.6	11.2
42.5°	9.8	9.8	9.4	8.1	8.1
45°	7.2	7.2	6.7	6.3	6.3
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)