

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: P282244

Luminaire Tested: **LDA2B109030D010 EU2B10NFL259030 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282244
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: LDA2B109030D010 EU2B10NFL259030 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 792.2 lumens
Efficiency: N/A
Efficacy: 79.2 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

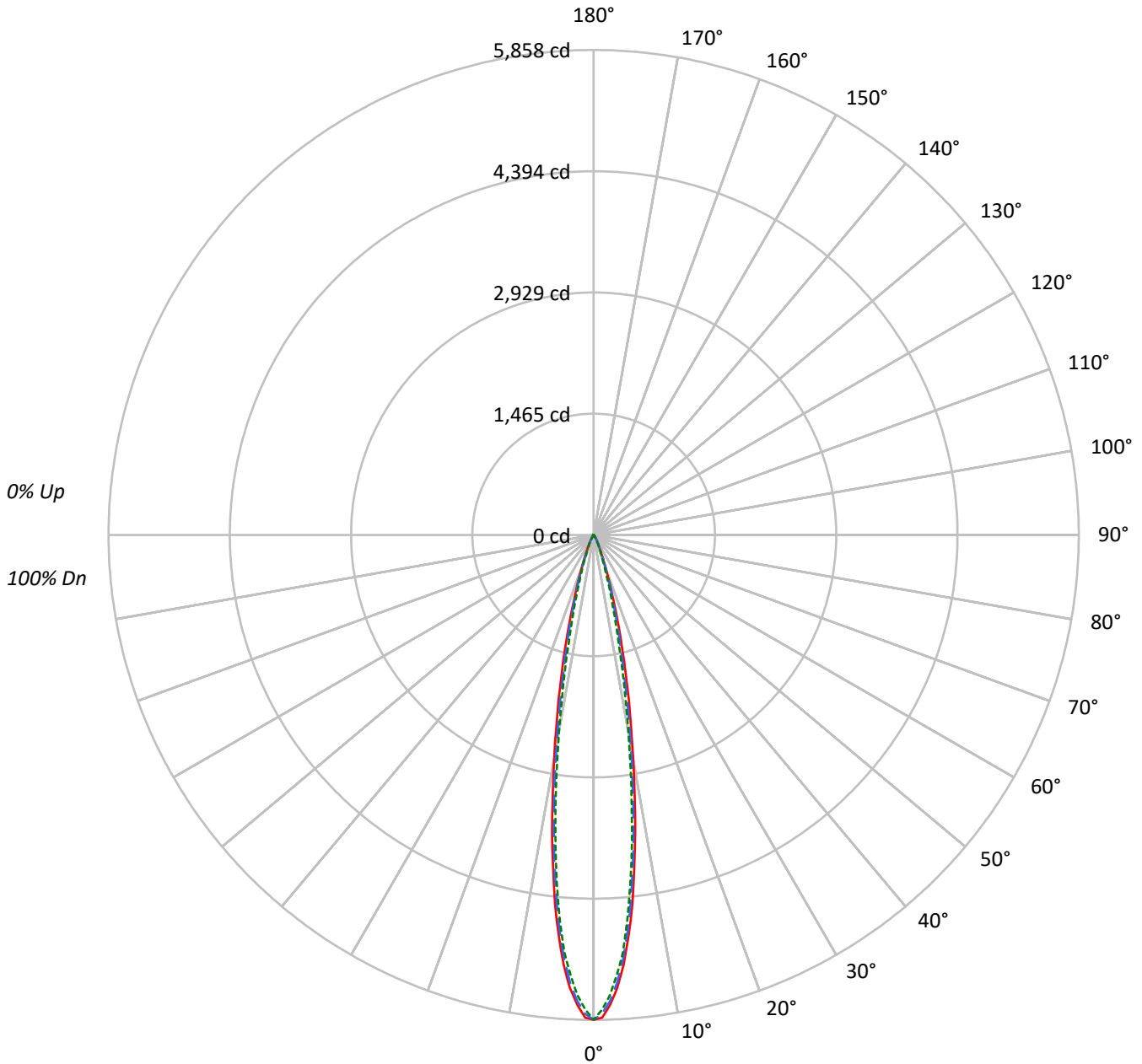
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	84	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°	2889867	2889867	2889867
5°	2404669	2360592	2312949
10°	1377374	1292510	1206292
15°	612612	544119	455961
20°	222243	208960	165540
25°	85356	79695	68590
30°	36802	34238	30364
35°	17406	17406	14395
40°	8759	9017	7278
45°	5024	4744	4396
50°	3454	3147	3147
55°	2752	1978	2322
60°	2269	1381	1776
65°	1634	1051	1634
70°	1298	721	1298
75°	953	953	953
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.0	48.1
10°-20°	308.3	38.9
20°-30°	74.3	9.4
30°-40°	19.0	2.4
40°-50°	5.6	0.7
50°-60°	2.4	0.3
60°-70°	1.2	0.1
70°-80°	0.4	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°	763.6	96.4
0°-40°	782.6	98.8
0°-60°	790.6	99.8
0°-90°	792.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	792.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5858	5858	5858	5858	5858	
5°	4856	4811	4766	4725	4670	393
15°	1199	1171	1065	960	893	342
25°	157	158	146	133	126	81
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	2
75°	0	0	0	0	0	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°	5857.5	5857.5	5857.5	5857.5	5857.5
1°	5831.3	5790.7	5785.7	5811.0	5736.5
2°	5682.2	5653.3	5636.6	5651.5	5567.0
3°	5477.6	5449.6	5419.3	5419.8	5325.4
4°	5198.9	5176.7	5125.7	5110.3	5055.7
5°	4855.5	4810.8	4766.5	4725.0	4670.3
6°	4476.0	4418.2	4355.0	4293.1	4237.1
7°	4029.7	3991.3	3907.7	3823.2	3775.8
8°	3610.0	3548.1	3450.5	3344.8	3304.6
9°	3158.7	3114.4	3002.4	2879.5	2839.3
10°	2749.4	2703.3	2580.0	2443.1	2407.9
11°	2365.4	2322.0	2193.7	2050.1	2012.6
12°	2040.6	1979.2	1831.9	1707.2	1670.6
13°	1717.1	1675.1	1535.5	1412.2	1341.3
14°	1442.0	1407.2	1280.7	1172.3	1097.3
15°	1199.4	1171.0	1065.3	959.5	892.7
16°	983.9	966.3	882.7	780.6	726.0
17°	798.3	782.0	728.7	634.7	588.6
18°	644.7	642.4	598.1	516.8	475.7
19°	530.4	529.5	488.8	420.6	386.7
20°	423.3	429.2	398.0	338.4	315.3
21°	345.1	348.3	323.5	278.3	257.5
22°	281.0	283.3	267.0	229.9	218.7
23°	230.4	231.8	218.2	190.6	180.7
24°	189.7	190.6	178.4	159.0	150.4
25°	156.8	157.7	146.4	132.8	126.0
26°	130.1	131.0	121.1	111.6	104.8
27°	108.0	109.8	99.8	94.0	86.7
28°	92.2	92.6	83.6	80.0	73.2
29°	75.4	78.2	70.5	67.3	62.3
30°	64.6	66.0	60.1	57.8	53.3
32.5°	42.9	43.8	41.1	39.3	35.7
35°	28.9	29.4	28.9	26.2	23.9
37.5°	19.9	19.9	20.3	17.2	16.3
40°	13.6	13.6	14.0	11.7	11.3
42.5°	9.9	9.9	9.5	8.1	8.1
45°	7.2	7.2	6.8	6.3	6.3
47.5°	5.9	5.4	5.0	5.0	5.0
50°	4.5	4.5	4.1	3.6	4.1
52.5°	3.6	3.6	3.2	3.2	3.2
55°	3.2	2.7	2.3	2.3	2.7
57.5°	2.3	2.3	1.8	1.8	2.3
60°	2.3	1.8	1.4	1.8	1.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.4	0.9	0.9	0.9	0.9
70°	0.9	0.9	0.5	0.5	0.9
72.5°	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.0	0.0	0.5
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	1.4	1.4	1.4	1.4
65°	1.4	1.4	0.9	0.9	1.4



(END OF REPORT)