

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: P282694

Luminaire Tested: **LDA2B109050D010 EU2B10NFL259050 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282694
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: LDA2B109050D010 EU2B10NFL259050 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: 805.9 lumens
Efficiency: N/A
Efficacy: 80.6 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

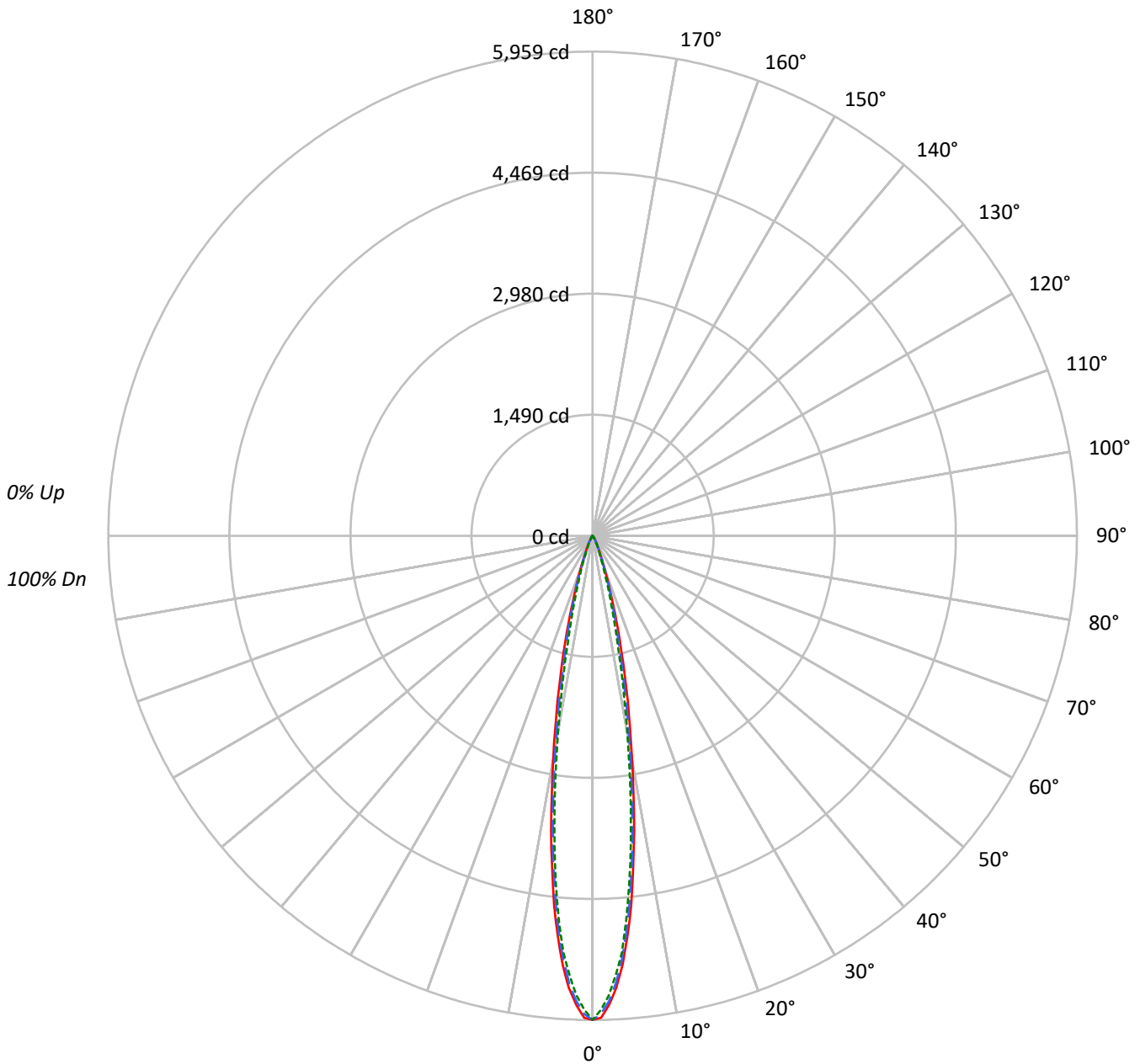
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2939746	2939746	2939746
5°	2446170	2401301	2352866
10°	1401120	1314803	1227083
15°	623185	553466	463826
20°	226076	212582	168428
25°	86826	81056	69788
30°	37428	34808	30877
35°	17707	17707	14696
40°	8888	9145	7406
45°	5163	4814	4465
50°	3531	3147	3147
55°	2752	1978	2408
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°	387.5	48.1
10°-20°	313.6	38.9
20°-30°	75.6	9.4
30°-40°	19.3	2.4
40°-50°	5.8	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°	776.8	96.4
0°-40°	796.1	98.8
0°-60°	804.3	99.8
0°-90°	805.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	805.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5959	5959	5959	5959	5959	
5°	4939	4894	4849	4806	4751	399
15°	1220	1191	1084	976	908	348
25°	160	160	149	135	128	82
35°	29	30	29	27	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°	5958.6	5958.6	5958.6	5958.6	5958.6
1°	5931.9	5890.5	5885.5	5911.2	5835.4
2°	5780.3	5750.8	5733.8	5749.0	5663.1
3°	5572.1	5543.6	5512.8	5513.3	5417.2
4°	5288.5	5266.0	5214.1	5198.5	5142.9
5°	4939.3	4893.8	4848.7	4806.5	4750.9
6°	4553.2	4494.4	4430.1	4367.1	4310.1
7°	4099.2	4060.1	3975.1	3889.2	3840.9
8°	3672.3	3609.3	3510.1	3402.5	3361.6
9°	3213.2	3168.2	3054.2	2929.2	2888.3
10°	2796.8	2750.0	2624.5	2485.3	2449.4
11°	2406.2	2362.1	2231.6	2085.4	2047.3
12°	2075.8	2013.3	1863.5	1736.6	1699.4
13°	1746.8	1704.0	1562.0	1436.6	1364.4
14°	1466.9	1431.5	1302.8	1192.5	1116.3
15°	1220.1	1191.2	1083.6	976.1	908.1
16°	1000.9	983.0	898.0	794.1	738.5
17°	812.0	795.5	741.3	645.7	598.8
18°	655.8	653.5	608.4	525.7	483.9
19°	539.5	538.6	497.2	427.8	393.4
20°	430.6	436.6	404.9	344.2	320.8
21°	351.1	354.3	329.0	283.1	261.9
22°	285.8	288.1	271.6	233.9	222.4
23°	234.4	235.8	222.0	193.9	183.8
24°	193.0	193.9	181.5	161.8	153.0
25°	159.5	160.4	148.9	135.1	128.2
26°	132.4	133.3	123.2	113.5	106.6
27°	109.8	111.7	101.6	95.6	88.2
28°	93.7	94.2	85.0	81.3	74.4
29°	76.7	79.5	71.7	68.5	63.4
30°	65.7	67.1	61.1	58.8	54.2
32.5°	43.7	44.6	41.8	40.0	36.3
35°	29.4	29.9	29.4	26.7	24.4
37.5°	20.2	20.2	20.7	17.5	16.5
40°	13.8	13.8	14.2	11.9	11.5
42.5°	10.1	10.1	9.7	8.3	8.3
45°	7.4	7.4	6.9	6.4	6.4
47.5°	6.0	5.5	5.1	5.1	5.1
50°	4.6	4.6	4.1	3.7	4.1
52.5°	3.7	3.7	3.2	3.2	3.2
55°	3.2	2.8	2.3	2.3	2.8
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)