

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: P282687

Luminaire Tested: **LDA2B109035D010 EU2B10NFL259035 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282687
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: LDA2B109035D010 EU2B10NFL259035 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 755.4 lumens
Efficiency: N/A
Efficacy: 75.5 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

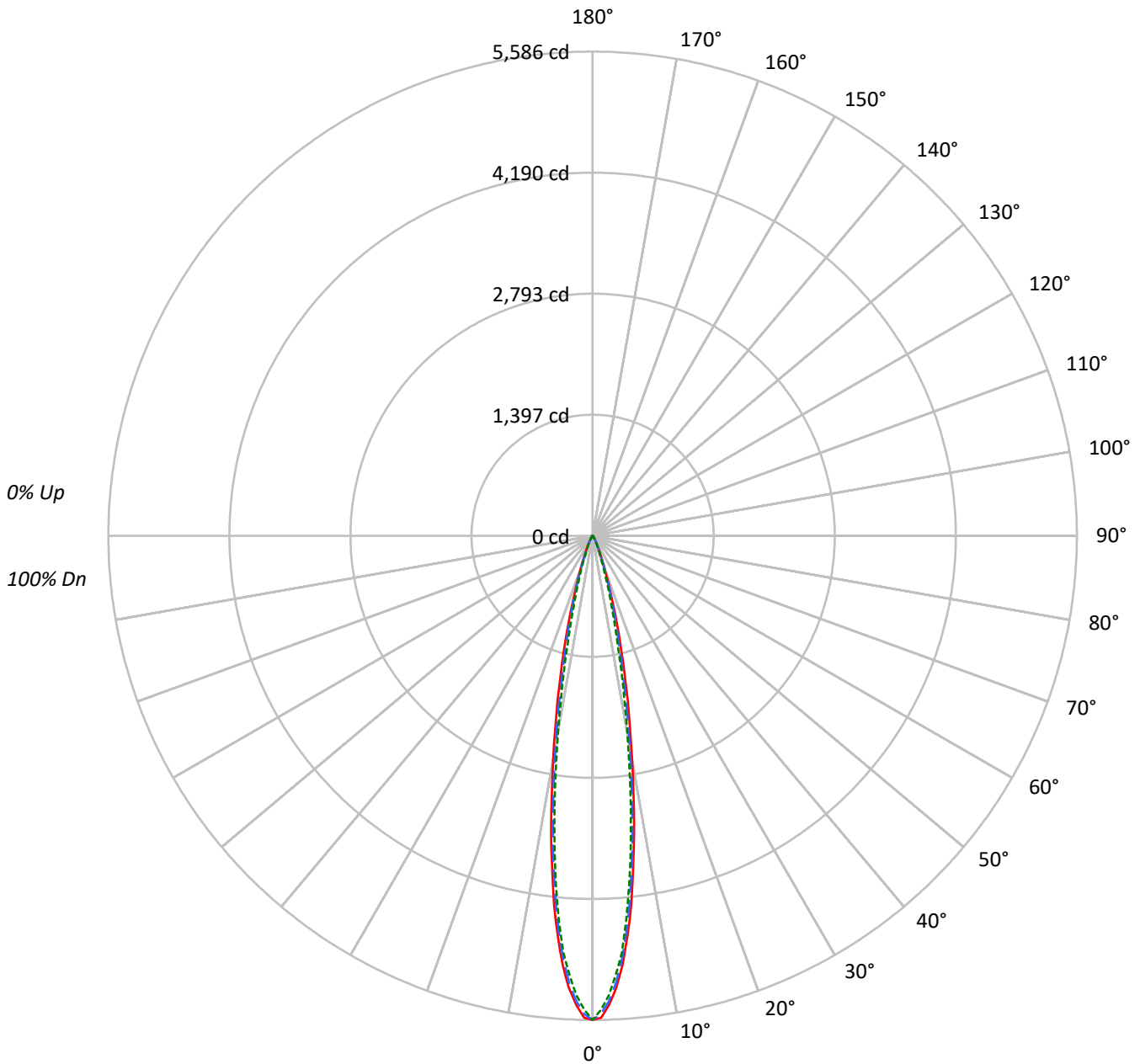
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2755722	2755722	2755722
5°	2293040	2250994	2205580
10°	1313450	1232493	1150283
15°	584163	518836	434764
20°	211900	199247	157875
25°	81382	75993	65433
30°	35093	32643	28940
35°	16623	16623	13732
40°	8308	8630	6956
45°	4814	4535	4186
50°	3300	2993	2993
55°	2580	1892	2236
60°	2171	1283	1677
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°	363.3	48.1
10°-20°	294.0	38.9
20°-30°	70.9	9.4
30°-40°	18.1	2.4
40°-50°	5.4	0.7
50°-60°	2.3	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°	728.2	96.4
0°-40°	746.2	98.8
0°-60°	753.9	99.8
0°-90°	755.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	755.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5586	5586	5586	5586	5586	
5°	4630	4588	4545	4506	4454	374
15°	1144	1117	1016	915	851	326
25°	150	150	140	127	120	77
35°	28	28	28	25	23	19
45°	7	7	6	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°	5585.6	5585.6	5585.6	5585.6	5585.6
1°	5560.6	5521.8	5517.1	5541.2	5470.1
2°	5418.4	5390.9	5374.9	5389.1	5308.6
3°	5223.3	5196.6	5167.7	5168.2	5078.1
4°	4957.5	4936.4	4887.7	4873.1	4820.9
5°	4630.1	4587.5	4545.2	4505.6	4453.5
6°	4268.2	4213.1	4152.8	4093.8	4040.4
7°	3842.6	3806.0	3726.3	3645.8	3600.5
8°	3442.4	3383.4	3290.4	3189.5	3151.2
9°	3012.1	2969.8	2863.0	2745.8	2707.5
10°	2621.8	2577.8	2460.2	2329.7	2296.1
11°	2255.6	2214.2	2091.9	1954.9	1919.2
12°	1945.9	1887.3	1746.8	1627.9	1593.1
13°	1637.4	1597.4	1464.2	1346.6	1279.0
14°	1375.1	1341.9	1221.3	1117.9	1046.4
15°	1143.7	1116.6	1015.8	915.0	851.2
16°	938.3	921.5	841.8	744.4	692.3
17°	761.2	745.7	694.9	605.3	561.3
18°	614.7	612.6	570.4	492.8	453.6
19°	505.7	504.9	466.1	401.1	368.8
20°	403.6	409.2	379.5	322.7	300.7
21°	329.1	332.1	308.4	265.4	245.5
22°	267.9	270.1	254.6	219.3	208.5
23°	219.7	221.0	208.1	181.8	172.3
24°	180.9	181.8	170.2	151.6	143.5
25°	149.5	150.3	139.6	126.7	120.2
26°	124.1	124.9	115.5	106.4	99.9
27°	103.0	104.7	95.2	89.6	82.7
28°	87.9	88.3	79.7	76.2	69.8
29°	71.9	74.5	67.2	64.2	59.4
30°	61.6	62.9	57.3	55.1	50.8
32.5°	40.9	41.8	39.2	37.5	34.0
35°	27.6	28.0	27.6	25.0	22.8
37.5°	19.0	19.0	19.4	16.4	15.5
40°	12.9	12.9	13.4	11.2	10.8
42.5°	9.5	9.5	9.0	7.8	7.8
45°	6.9	6.9	6.5	6.0	6.0
47.5°	5.6	5.2	4.7	4.7	4.7
50°	4.3	4.3	3.9	3.4	3.9
52.5°	3.4	3.4	3.0	3.0	3.0
55°	3.0	2.6	2.2	2.2	2.6
57.5°	2.2	2.2	1.7	1.7	2.2
60°	2.2	1.7	1.3	1.7	1.7



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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°	1.7	1.3	1.3	1.3	1.3
65°	1.3	1.3	0.9	0.9	1.3



(END OF REPORT)