

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: P282681

Luminaire Tested: **LDA2B109027D010 EU2B10NFL259027 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282681
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: LDA2B109027D010 EU2B10NFL259027 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: 697.5 lumens
Efficiency: N/A
Efficacy: 69.7 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

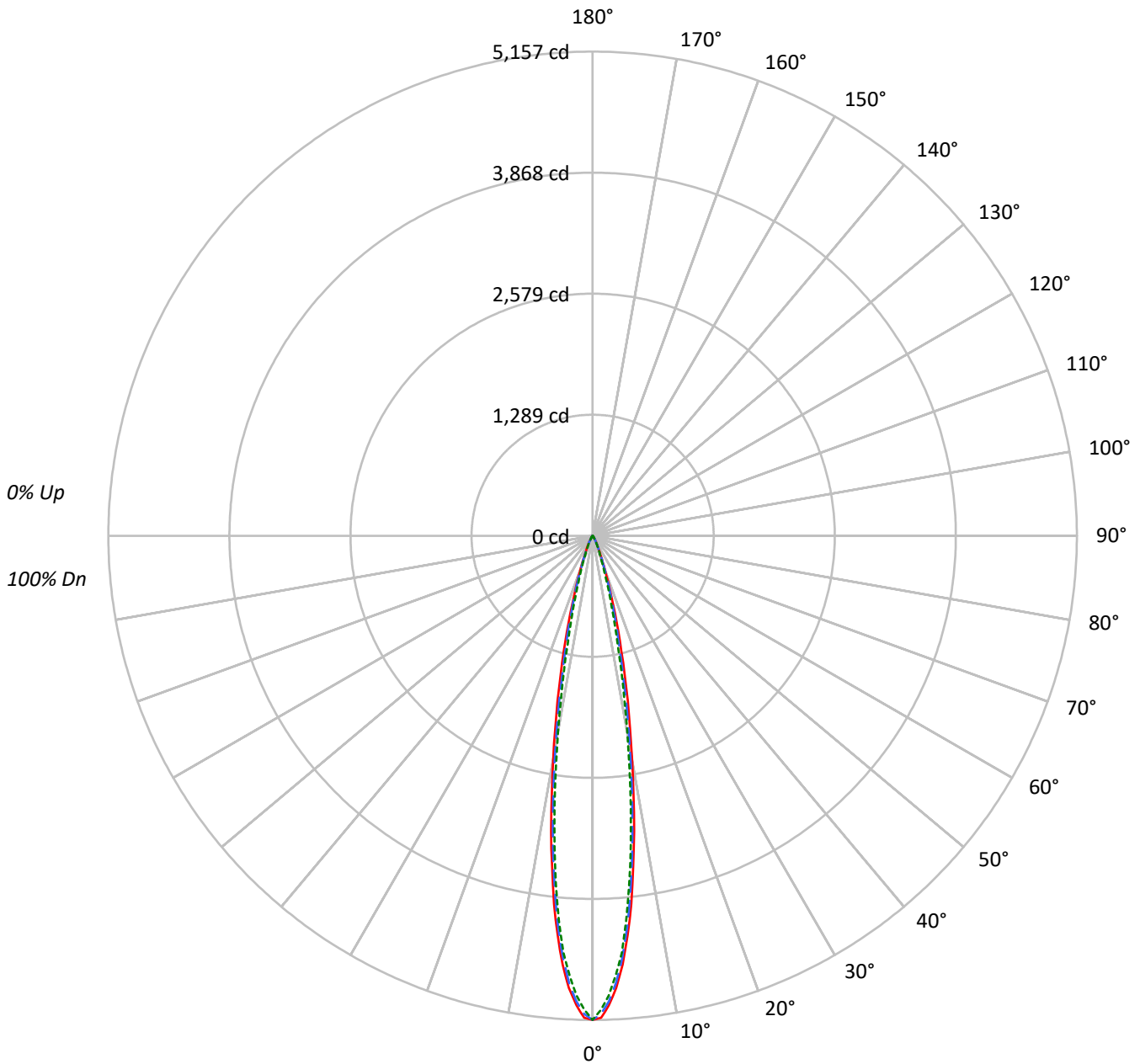
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2544267	2544267	2544267
5°	2117079	2078301	2036304
10°	1212654	1137909	1062012
15°	539369	478996	401411
20°	195677	183969	145747
25°	75122	70169	60424
30°	32415	30136	26718
35°	15358	15358	12708
40°	7664	7922	6376
45°	4465	4186	3907
50°	3070	2763	2763
55°	2408	1720	2064
60°	1973	1184	1579
65°	1401	934	1401
70°	1154	577	1154
75°	762	762	762
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.4	48.1
10°-20°	271.4	38.9
20°-30°	65.5	9.4
30°-40°	16.7	2.4
40°-50°	5.0	0.7
50°-60°	2.1	0.3
60°-70°	1.0	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°	672.3	96.4
0°-40°	689.0	98.8
0°-60°	696.1	99.8
0°-90°	697.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	697.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5157	5157	5157	5157	5157	
5°	4275	4235	4196	4160	4112	346
15°	1056	1031	938	845	786	301
25°	138	139	129	117	111	71
35°	26	26	26	23	21	18
45°	6	6	6	6	6	5
55°	3	2	2	2	2	2
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°	5157.0	5157.0	5157.0	5157.0	5157.0
1°	5133.9	5098.1	5093.7	5116.0	5050.4
2°	5002.7	4977.2	4962.5	4975.6	4901.2
3°	4822.5	4797.8	4771.2	4771.6	4688.4
4°	4577.1	4557.6	4512.6	4499.1	4451.0
5°	4274.8	4235.4	4196.5	4159.9	4111.7
6°	3940.7	3889.8	3834.1	3779.6	3730.3
7°	3547.8	3513.9	3440.4	3366.0	3324.2
8°	3178.3	3123.8	3037.9	2944.8	2909.4
9°	2780.9	2742.0	2643.3	2535.1	2499.7
10°	2420.6	2380.0	2271.4	2150.9	2119.9
11°	2082.5	2044.3	1931.4	1804.9	1771.9
12°	1796.5	1742.5	1612.8	1503.0	1470.8
13°	1511.8	1474.8	1351.9	1243.3	1180.9
14°	1269.6	1238.9	1127.6	1032.1	966.1
15°	1056.0	1030.9	937.8	844.8	785.9
16°	866.3	850.7	777.2	687.3	639.2
17°	702.8	688.5	641.5	558.8	518.2
18°	567.6	565.6	526.6	455.0	418.8
19°	466.9	466.1	430.3	370.3	340.5
20°	372.7	377.8	350.4	297.9	277.6
21°	303.9	306.7	284.8	245.0	226.7
22°	247.4	249.4	235.1	202.4	192.5
23°	202.8	204.0	192.1	167.8	159.1
24°	167.0	167.8	157.1	140.0	132.4
25°	138.0	138.8	128.9	116.9	111.0
26°	114.5	115.3	106.6	98.2	92.3
27°	95.1	96.6	87.9	82.7	76.4
28°	81.1	81.5	73.6	70.4	64.4
29°	66.4	68.8	62.0	59.3	54.9
30°	56.9	58.1	52.9	50.9	46.9
32.5°	37.8	38.6	36.2	34.6	31.4
35°	25.5	25.9	25.5	23.1	21.1
37.5°	17.5	17.5	17.9	15.1	14.3
40°	11.9	11.9	12.3	10.3	9.9
42.5°	8.8	8.8	8.4	7.2	7.2
45°	6.4	6.4	6.0	5.6	5.6
47.5°	5.2	4.8	4.4	4.4	4.4
50°	4.0	4.0	3.6	3.2	3.6
52.5°	3.2	3.2	2.8	2.8	2.8
55°	2.8	2.4	2.0	2.0	2.4
57.5°	2.0	2.0	1.6	1.6	2.0
60°	2.0	1.6	1.2	1.6	1.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.2	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.4	0.4	0.8
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°	1.6	1.2	1.2	1.2	1.2
65°	1.2	1.2	0.8	0.8	1.2



(END OF REPORT)