

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: P282237

Luminaire Tested: **LDA2B109027D010 EU2B10NFL259027 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282237
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 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 758.9 lumens
Efficiency: N/A
Efficacy: 75.9 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

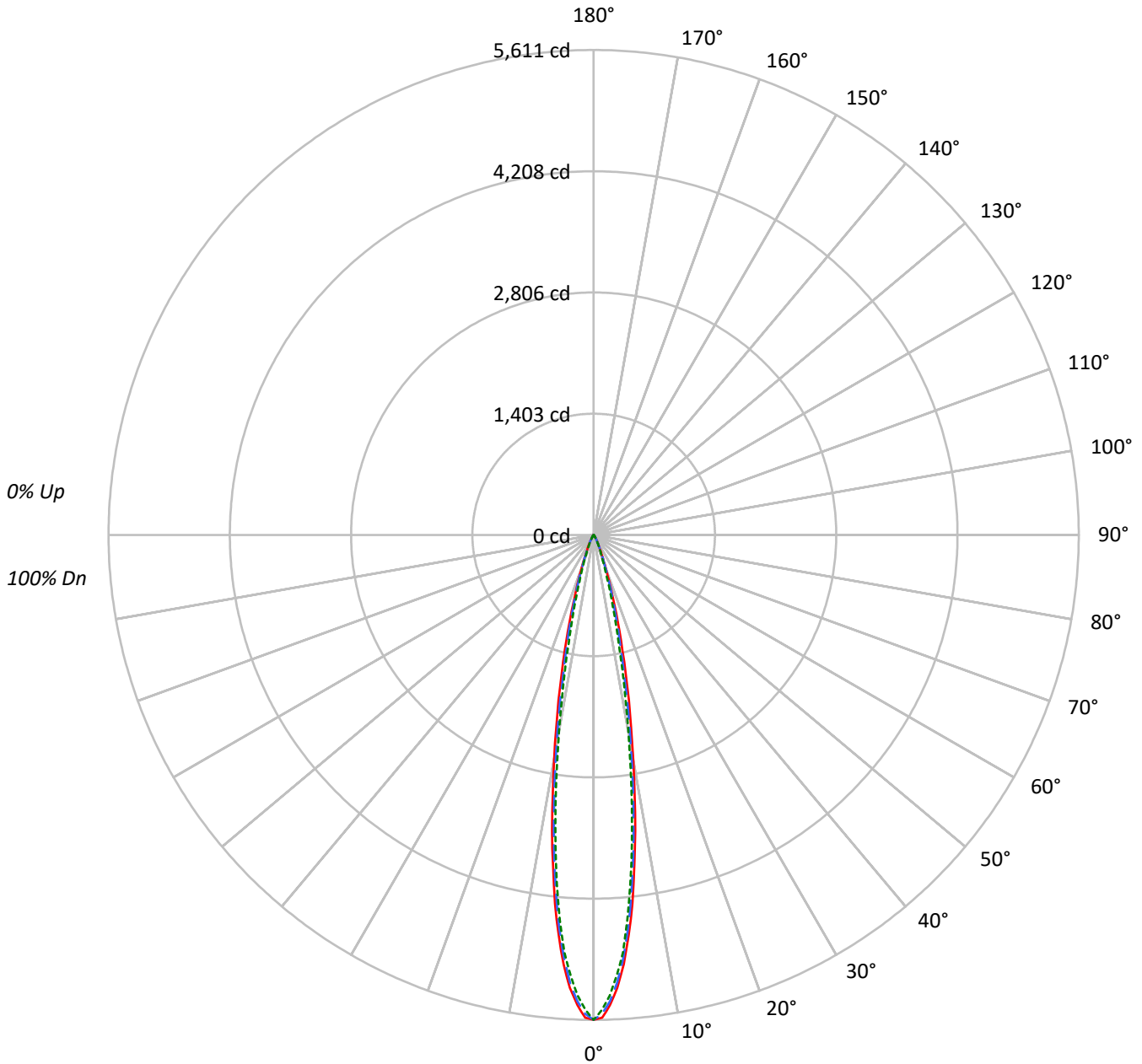
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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																			
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97																			
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95																			
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92																			
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90																			
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88																			
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86																			
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84																			
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83																			
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81																			
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2768352	2768352	2768352
5°	2303589	2261344	2215683
10°	1319462	1238154	1155544
15°	586870	521236	436756
20°	212897	200192	158610
25°	81764	76320	65705
30°	35264	32814	29111
35°	16683	16683	13792
40°	8372	8630	6956
45°	4814	4535	4256
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°	365.0	48.1
10°-20°	295.3	38.9
20°-30°	71.2	9.4
30°-40°	18.2	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°	731.5	96.4
0°-40°	749.7	98.8
0°-60°	757.4	99.8
0°-90°	758.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	758.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5611	5611	5611	5611	5611	
5°	4651	4608	4566	4526	4474	376
15°	1149	1122	1020	919	855	328
25°	150	151	140	127	121	78
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°	5611.2	5611.2	5611.2	5611.2	5611.2
1°	5586.1	5547.2	5542.4	5566.7	5495.3
2°	5443.3	5415.6	5399.6	5413.9	5333.0
3°	5247.3	5220.5	5191.5	5191.9	5101.4
4°	4980.3	4959.1	4910.2	4895.5	4843.1
5°	4651.4	4608.5	4566.1	4526.3	4473.9
6°	4287.8	4232.5	4171.9	4112.6	4058.9
7°	3860.3	3823.5	3743.4	3662.5	3617.1
8°	3458.2	3398.9	3305.5	3204.2	3165.7
9°	3025.9	2983.5	2876.2	2758.5	2719.9
10°	2633.8	2589.7	2471.5	2340.4	2306.6
11°	2266.0	2224.4	2101.5	1963.9	1928.0
12°	1954.8	1895.9	1754.9	1635.4	1600.4
13°	1644.9	1604.7	1471.0	1352.8	1284.9
14°	1381.4	1348.1	1226.9	1123.0	1051.2
15°	1149.0	1121.7	1020.5	919.2	855.1
16°	942.6	925.7	845.6	747.8	695.5
17°	764.7	749.1	698.1	608.0	563.9
18°	617.6	615.4	573.0	495.1	455.7
19°	508.1	507.2	468.3	402.9	370.4
20°	405.5	411.1	381.3	324.1	302.1
21°	330.6	333.7	309.9	266.6	246.7
22°	269.2	271.3	255.8	220.3	209.5
23°	220.7	222.0	209.0	182.6	173.1
24°	181.8	182.6	170.9	152.3	144.1
25°	150.2	151.0	140.2	127.2	120.7
26°	124.6	125.5	116.0	106.9	100.4
27°	103.4	105.2	95.6	90.0	83.1
28°	88.3	88.7	80.1	76.6	70.1
29°	72.3	74.9	67.5	64.5	59.7
30°	61.9	63.2	57.6	55.4	51.1
32.5°	41.1	42.0	39.4	37.7	34.2
35°	27.7	28.1	27.7	25.1	22.9
37.5°	19.0	19.0	19.5	16.4	15.6
40°	13.0	13.0	13.4	11.3	10.8
42.5°	9.5	9.5	9.1	7.8	7.8
45°	6.9	6.9	6.5	6.1	6.1
47.5°	5.6	5.2	4.8	4.8	4.8
50°	4.3	4.3	3.9	3.5	3.9
52.5°	3.5	3.5	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)