

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: P282683

Luminaire Tested: **LDA2B109030D010 EU2B10NFL259030 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282683
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 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC
AND 2in Adj SQ Pinhole w-lens, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 738.0 lumens
Efficiency: N/A
Efficacy: 73.8 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

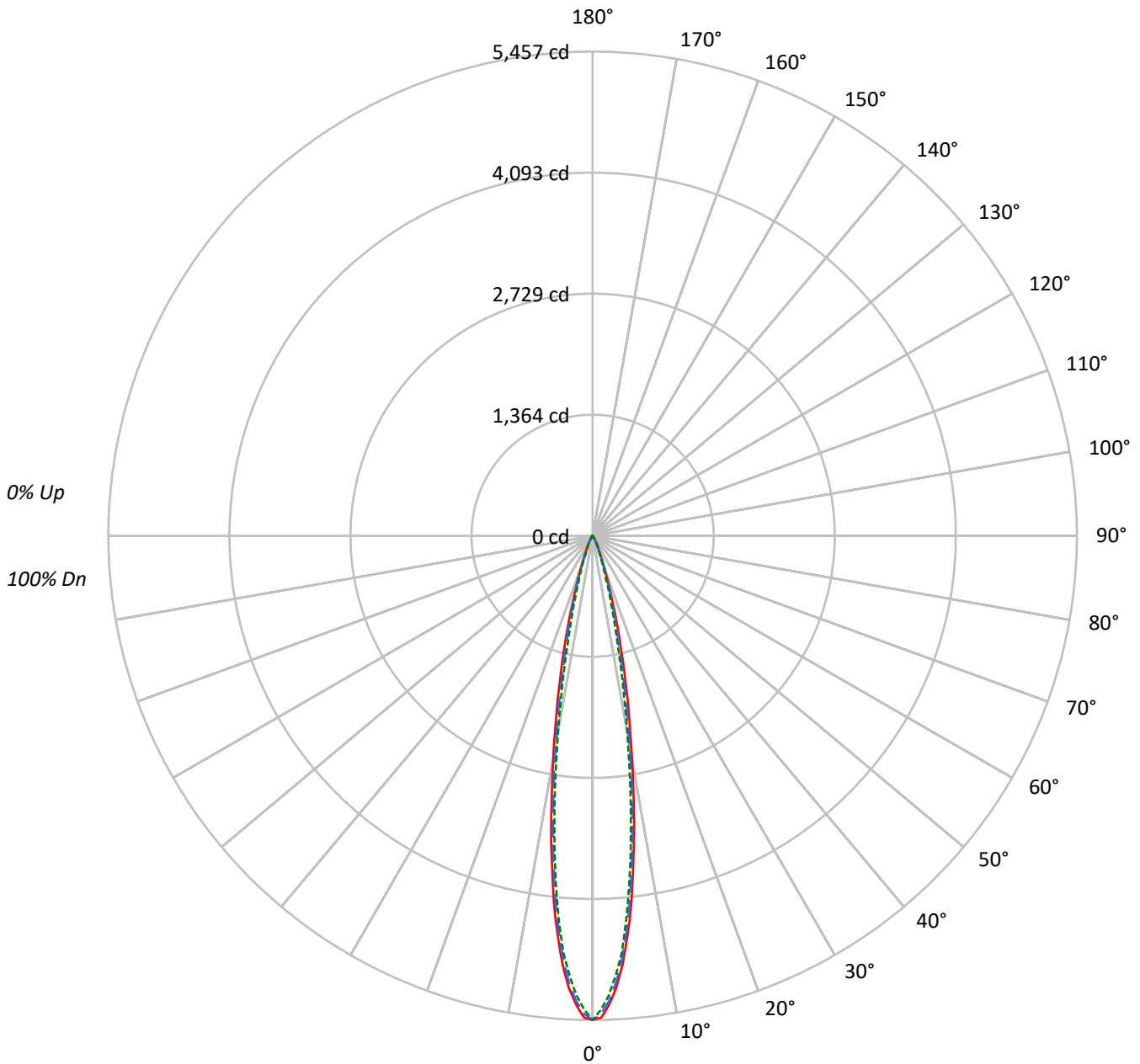
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2692275	2692275	2692275
5°	2240247	2199191	2154817
10°	1283191	1204138	1123782
15°	570730	506884	424753
20°	207070	194679	154252
25°	79477	74251	63908
30°	34295	31902	28313
35°	16201	16201	13431
40°	8115	8372	6762
45°	4675	4396	4117
50°	3224	2917	2917
55°	2494	1806	2150
60°	2072	1283	1677
65°	1518	934	1518
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°	354.9	48.1
10°-20°	287.2	38.9
20°-30°	69.3	9.4
30°-40°	17.6	2.4
40°-50°	5.3	0.7
50°-60°	2.2	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°	711.4	96.4
0°-40°	729.1	98.8
0°-60°	736.6	99.8
0°-90°	738.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	738.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5457	5457	5457	5457	5457	
5°	4524	4482	4441	4402	4351	366
15°	1117	1091	992	894	832	319
25°	146	147	136	124	117	75
35°	27	27	27	24	22	19
45°	7	7	6	6	6	6
55°	3	2	2	2	2	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°	5457.0	5457.0	5457.0	5457.0	5457.0
1°	5432.6	5394.7	5390.1	5413.7	5344.2
2°	5293.7	5266.8	5251.2	5265.1	5186.4
3°	5103.1	5077.0	5048.8	5049.2	4961.2
4°	4843.4	4822.8	4775.2	4760.9	4710.0
5°	4523.5	4481.9	4440.6	4401.9	4351.0
6°	4170.0	4116.1	4057.2	3999.5	3947.3
7°	3754.2	3718.4	3640.5	3561.8	3517.6
8°	3363.2	3305.5	3214.6	3116.1	3078.7
9°	2942.7	2901.5	2797.1	2682.6	2645.2
10°	2561.4	2518.5	2403.6	2276.1	2243.2
11°	2203.7	2163.3	2043.7	1909.9	1875.0
12°	1901.1	1843.8	1706.6	1590.5	1556.4
13°	1599.7	1560.6	1430.5	1315.6	1249.6
14°	1343.4	1311.0	1193.2	1092.2	1022.3
15°	1117.4	1090.9	992.4	893.9	831.6
16°	916.7	900.2	822.4	727.3	676.3
17°	743.7	728.5	678.9	591.3	548.4
18°	600.6	598.5	557.2	481.5	443.2
19°	494.1	493.3	455.4	391.8	360.3
20°	394.4	399.8	370.8	315.2	293.8
21°	321.5	324.5	301.3	259.3	239.9
22°	261.8	263.9	248.7	214.2	203.7
23°	214.6	215.9	203.3	177.6	168.3
24°	176.8	177.6	166.2	148.1	140.2
25°	146.0	146.9	136.4	123.7	117.4
26°	121.2	122.1	112.8	104.0	97.6
27°	100.6	102.3	93.0	87.5	80.8
28°	85.9	86.3	77.9	74.5	68.2
29°	70.3	72.8	65.7	62.7	58.1
30°	60.2	61.4	56.0	53.9	49.7
32.5°	40.0	40.8	38.3	36.6	33.2
35°	26.9	27.4	26.9	24.4	22.3
37.5°	18.5	18.5	18.9	16.0	15.2
40°	12.6	12.6	13.0	10.9	10.5
42.5°	9.3	9.3	8.8	7.6	7.6
45°	6.7	6.7	6.3	5.9	5.9
47.5°	5.5	5.1	4.6	4.6	4.6
50°	4.2	4.2	3.8	3.4	3.8
52.5°	3.4	3.4	2.9	2.9	2.9
55°	2.9	2.5	2.1	2.1	2.5
57.5°	2.1	2.1	1.7	1.7	2.1
60°	2.1	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	0.8	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°	1.7	1.3	1.3	1.3	1.3
65°	1.3	1.3	0.8	0.8	1.3



(END OF REPORT)