

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: P283934

Luminaire Tested: **LDA2B109040D010 EU2B10WFL559040 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283934
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-61)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B109040D010 EU2B10WFL559040 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND 2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 852.1 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

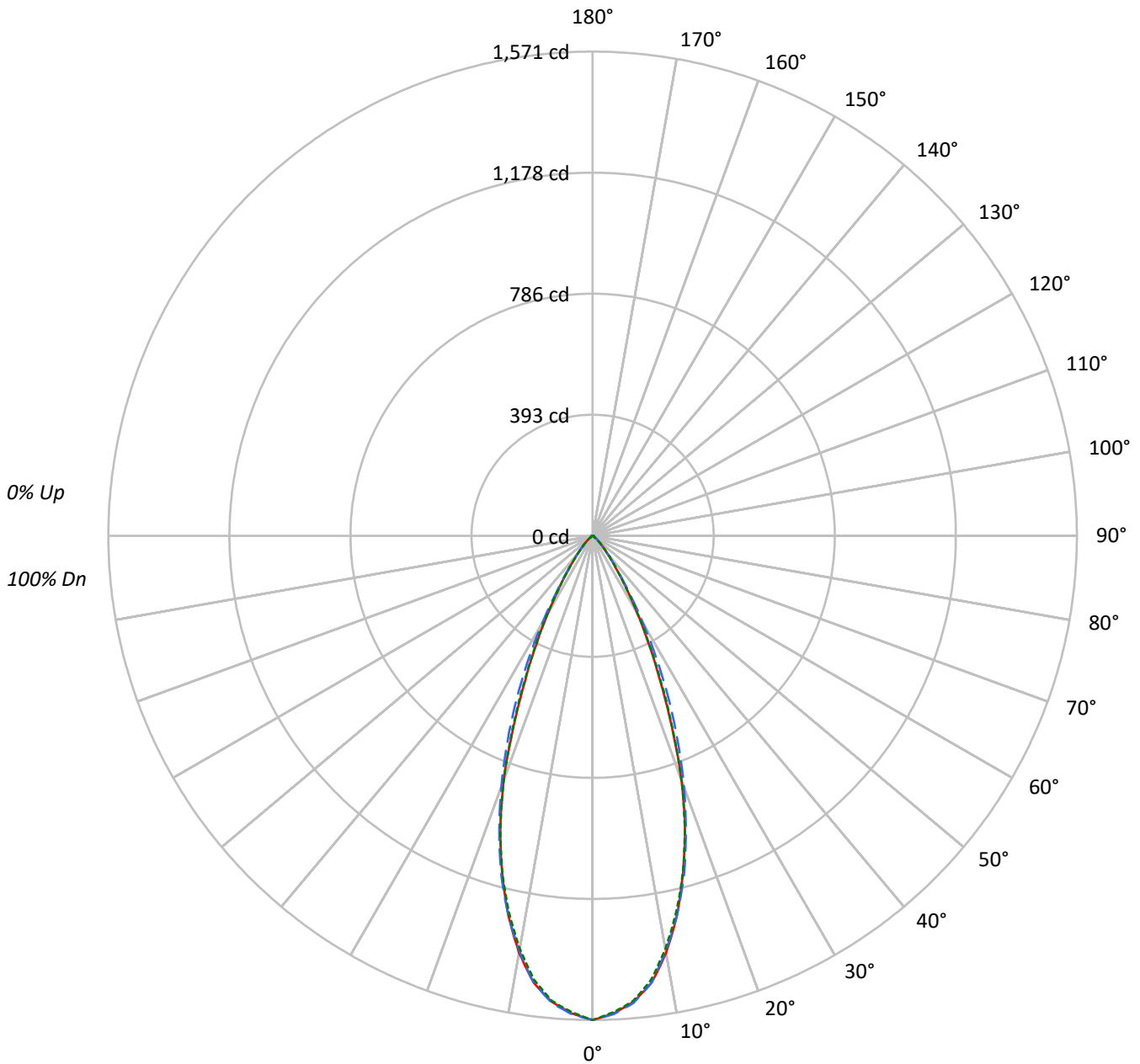
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89																			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84																			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79																			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75																			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71																			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67																			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64																			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61																			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	775121	775121	775121
5°	751833	753616	750249
10°	688186	685431	681323
15°	578851	584214	577931
20°	442648	454409	441913
25°	281110	316929	286553
30°	163500	184578	166348
35°	86428	91908	86669
40°	45598	47659	45598
45°	25537	26444	25816
50°	11897	15044	11897
55°	4301	8257	4731
60°	4934	4934	4934
65°	5370	5837	5370
70°	6635	5914	6635
75°	6100	6100	6100
80°	6535	5114	6535
85°	5095	5095	5095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.2	16.5
10°-20°	312.3	36.6
20°-30°	252.2	29.6
30°-40°	99.7	11.7
40°-50°	30.6	3.6
50°-60°	7.9	0.9
60°-70°	4.8	0.6
70°-80°	3.5	0.4
80°-90°	1.1	0.1
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°	704.7	82.7
0°-40°	804.3	94.4
0°-60°	842.8	98.9
0°-90°	852.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	852.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1571	1571	1571	1571	1571	
5°	1518	1521	1522	1518	1515	140
15°	1133	1136	1144	1139	1132	311
25°	516	541	582	551	526	240
35°	144	148	153	148	144	96
45°	37	37	38	38	37	30
55°	5	7	10	7	6	6
65°	5	5	5	5	5	5
75°	3	3	3	3	3	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1571.1	1571.1	1571.1	1571.1	1571.1
2.5°	1551.4	1552.3	1553.7	1551.9	1547.3
5°	1518.1	1520.8	1521.7	1518.5	1514.9
7.5°	1463.2	1460.0	1462.8	1457.3	1452.7
10°	1373.7	1369.6	1368.2	1360.0	1360.0
12.5°	1263.1	1261.7	1262.6	1258.5	1252.1
15°	1133.3	1136.5	1143.8	1139.2	1131.5
17.5°	995.7	1000.3	1006.7	1005.3	994.8
20°	843.1	856.4	865.5	856.8	841.7
22.5°	669.5	697.8	721.1	702.8	678.2
25°	516.4	541.1	582.2	551.1	526.4
27.5°	391.6	409.4	446.9	416.3	399.4
30°	287.0	297.9	324.0	303.9	292.0
32.5°	205.2	213.0	223.9	212.0	206.1
35°	143.5	147.6	152.6	148.1	143.9
37.5°	101.0	102.4	106.0	102.4	100.5
40°	70.8	71.3	74.0	71.7	70.8
42.5°	51.2	51.2	52.6	51.6	51.2
45°	36.6	37.0	37.9	37.5	37.0
47.5°	26.0	27.0	27.0	27.4	25.6
50°	15.5	19.2	19.6	19.2	15.5
52.5°	8.2	11.4	14.2	11.4	8.2
55°	5.0	6.9	9.6	6.9	5.5
57.5°	5.0	5.0	6.4	5.5	5.0
60°	5.0	5.0	5.0	5.0	5.0
62.5°	5.0	5.0	5.0	5.0	5.0
65°	4.6	5.0	5.0	5.0	4.6
67.5°	4.6	4.6	4.6	4.6	4.6
70°	4.6	4.6	4.1	4.6	4.6
72.5°	4.1	4.1	3.7	4.1	4.1
75°	3.2	3.2	3.2	3.2	3.2
77.5°	2.7	2.7	2.7	2.7	2.7
80°	2.3	2.3	1.8	2.3	2.3
82.5°	1.4	1.4	1.4	1.4	1.4
85°	0.9	0.9	0.9	0.9	0.9
87.5°	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)