

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: P283575

Luminaire Tested: **LDA2B109024D010 EU2B10FL409024 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283575
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B109024D010 EU2B10FL409024 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 661.4 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

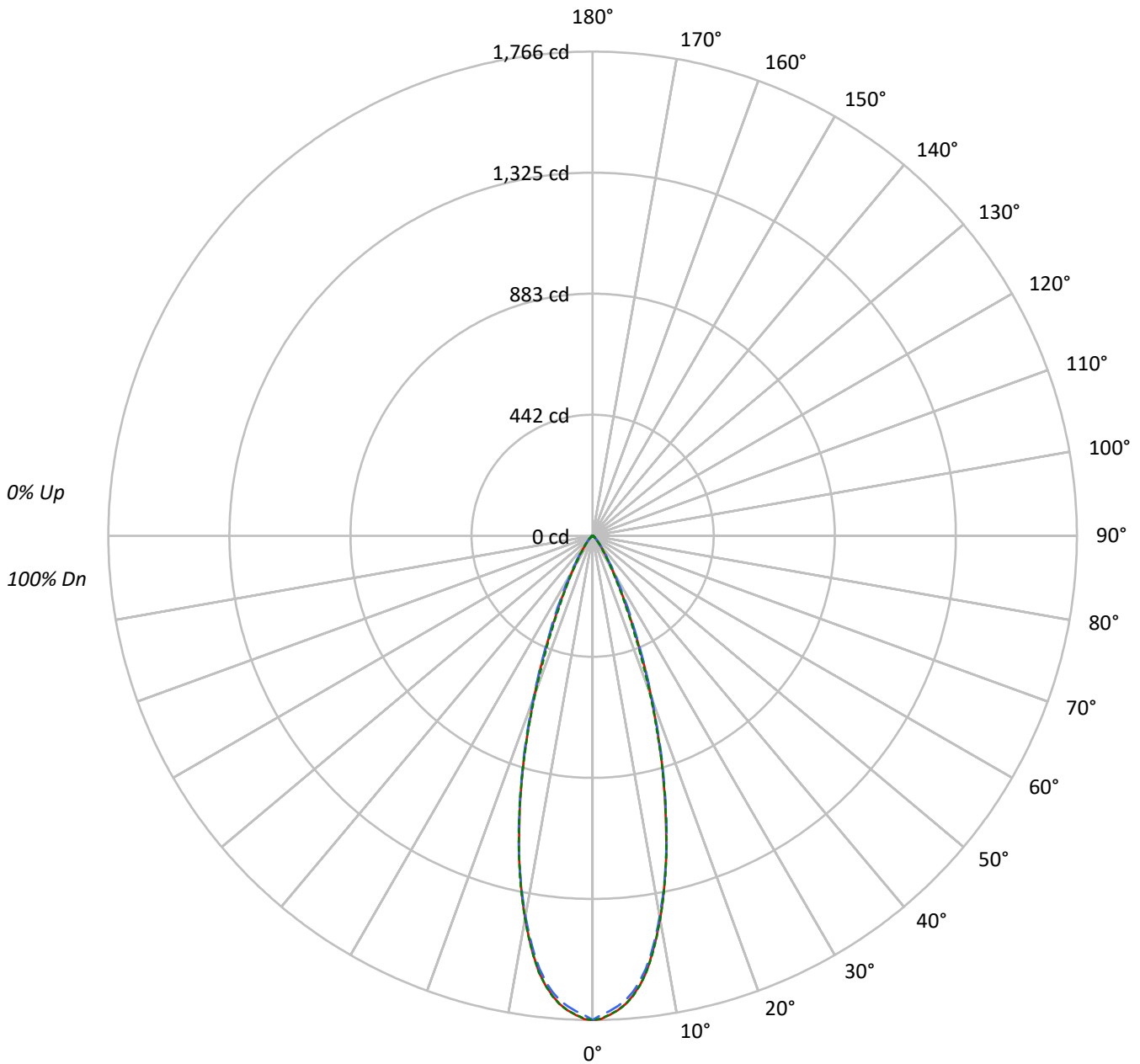
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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																			
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69																			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67																			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	871277	871277	871277
5°	833846	827606	835134
10°	710379	705921	711131
15°	523586	527008	525323
20°	326880	332918	319635
25°	168862	181165	160370
30°	80952	92802	77135
35°	41798	46255	39088
40°	23443	24602	22219
45°	14233	14233	13745
50°	7368	9134	7368
55°	3871	6021	4129
60°	4440	4440	4440
65°	4786	4786	4786
70°	5914	5337	5914
75°	5719	5719	5719
80°	5398	5398	5398
85°	3962	3962	3962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.9	23.0
10°-20°	279.0	42.2
20°-30°	151.3	22.9
30°-40°	48.6	7.3
40°-50°	16.6	2.5
50°-60°	5.8	0.9
60°-70°	4.3	0.6
70°-80°	3.1	0.5
80°-90°	0.9	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°	582.2	88.0
0°-40°	630.8	95.4
0°-60°	653.1	98.8
0°-90°	661.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	661.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1766	1766	1766	1766	1766	
5°	1684	1673	1671	1688	1686	152
15°	1025	1034	1032	1037	1028	278
25°	310	324	333	310	295	149
35°	69	72	77	70	65	47
45°	20	21	20	20	20	16
55°	4	6	7	6	5	5
65°	4	4	4	4	4	4
75°	3	3	3	3	3	3
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°	1766.0	1766.0	1766.0	1766.0	1766.0
1°	1763.1	1750.5	1748.6	1764.9	1761.2
2°	1749.0	1737.1	1735.2	1751.6	1748.2
3°	1733.4	1722.6	1718.9	1736.0	1733.8
4°	1712.6	1702.6	1699.3	1716.3	1714.5
5°	1683.7	1673.3	1671.1	1687.8	1686.3
6°	1648.1	1639.5	1635.4	1652.1	1649.2
7°	1603.5	1595.7	1591.3	1603.5	1605.0
8°	1545.7	1541.9	1536.7	1549.0	1549.0
9°	1484.1	1480.7	1475.2	1486.3	1486.3
10°	1418.0	1415.8	1409.1	1419.5	1419.5
11°	1345.7	1344.6	1339.7	1348.3	1348.3
12°	1269.6	1272.2	1267.8	1275.2	1272.6
13°	1193.6	1192.4	1192.8	1198.4	1194.3
14°	1107.5	1114.2	1115.3	1118.6	1112.3
15°	1025.1	1033.6	1031.8	1036.6	1028.5
16°	940.9	950.5	950.2	951.3	943.5
17°	862.2	867.8	868.2	867.1	857.4
18°	778.4	786.2	786.2	784.3	772.8
19°	696.4	702.3	706.4	702.3	689.0
20°	622.6	626.6	634.1	623.7	608.8
21°	551.7	555.4	561.7	549.5	533.1
22°	483.8	488.6	494.6	480.5	463.4
23°	420.4	431.5	433.7	414.4	400.0
24°	362.1	374.7	378.4	358.8	343.6
25°	310.2	324.3	332.8	309.8	294.6
26°	265.3	279.0	289.4	266.4	251.9
27°	225.9	240.4	251.2	229.7	215.9
28°	192.2	206.3	217.4	197.4	184.4
29°	167.0	175.1	186.2	169.6	157.7
30°	142.1	151.0	162.9	145.8	135.4
32.5°	97.6	102.4	111.7	101.3	93.1
35°	69.4	72.3	76.8	69.8	64.9
37.5°	49.3	50.8	53.4	49.3	46.7
40°	36.4	37.1	38.2	36.0	34.5
42.5°	27.1	27.5	27.5	26.7	26.0
45°	20.4	20.8	20.4	20.4	19.7
47.5°	14.8	16.0	15.6	15.6	14.5
50°	9.6	11.9	11.9	11.5	9.6
52.5°	5.9	8.2	9.3	8.2	6.3
55°	4.5	5.6	7.0	5.6	4.8
57.5°	4.5	4.5	5.2	4.5	4.5
60°	4.5	4.5	4.5	4.5	4.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	4.1	4.1	4.1	4.1	4.1
70°	4.1	4.1	3.7	4.1	4.1
72.5°	3.7	3.7	3.3	3.7	3.3
75°	3.0	3.0	3.0	3.0	3.0
77.5°	2.2	2.2	2.2	2.2	2.2
80°	1.9	1.9	1.9	1.9	1.9
82.5°	1.1	1.1	1.1	1.5	1.1
85°	0.7	0.7	0.7	0.7	0.7
87.5°	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	4.5	4.5	4.5	4.5	4.5
65°	4.1	4.5	4.1	4.5	4.1



(END OF REPORT)