

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: P283547

Luminaire Tested: **LDA2B108027D010 EU2B10FL408027 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283547
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: LDA2B108027D010 EU2B10FL408027 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 881.6 lumens
Efficiency: N/A
Efficacy: 88.2 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

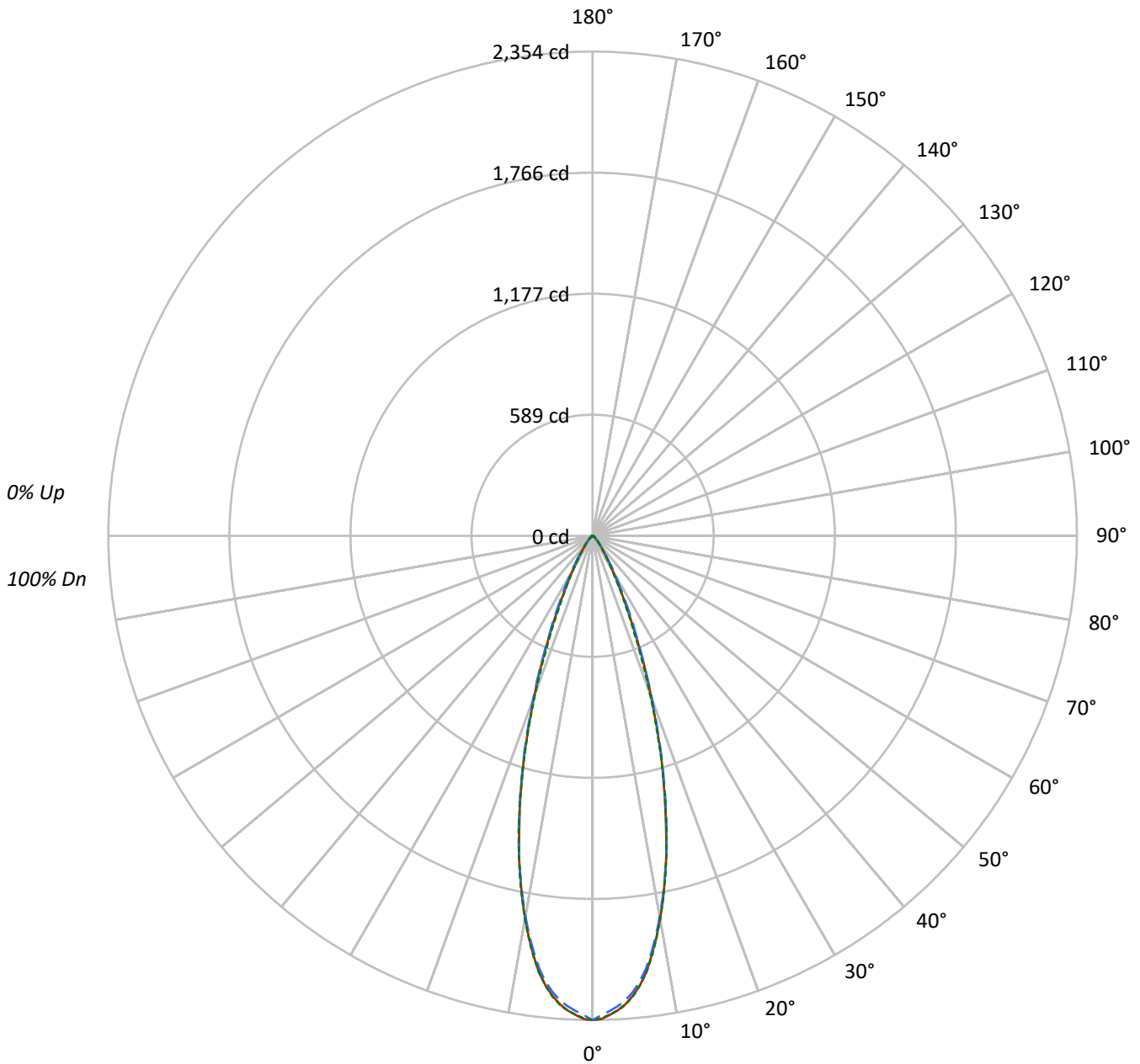
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283547

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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°	1161620	1161620	1161620
5°	1111679	1103359	1113413
10°	947089	941177	948091
15°	698063	702609	700362
20°	435770	443856	426163
25°	225095	241535	213772
30°	107898	123679	102828
35°	55711	61674	52158
40°	31236	32782	29626
45°	18978	18978	18280
50°	9901	12127	9901
55°	5075	8085	5505
60°	5822	5822	5822
65°	6304	6304	6304
70°	7789	7068	7789
75°	7625	7625	7625
80°	7103	7103	7103
85°	5661	5661	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.5	23.0
10°-20°	372.0	42.2
20°-30°	201.7	22.9
30°-40°	64.7	7.3
40°-50°	22.1	2.5
50°-60°	7.7	0.9
60°-70°	5.6	0.6
70°-80°	4.1	0.5
80°-90°	1.2	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°	776.2	88.0
0°-40°	840.9	95.4
0°-60°	870.7	98.8
0°-90°	881.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	881.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2354	2354	2354	2354	2354	
5°	2245	2231	2228	2250	2248	203
15°	1367	1378	1376	1382	1371	371
25°	414	432	444	413	393	198
35°	92	96	102	93	87	62
45°	27	28	27	27	26	22
55°	6	7	9	7	6	6
65°	5	6	5	6	5	6
75°	4	4	4	4	4	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°	2354.5	2354.5	2354.5	2354.5	2354.5
1°	2350.6	2333.7	2331.3	2353.0	2348.1
2°	2331.8	2315.9	2313.5	2335.2	2330.8
3°	2311.0	2296.6	2291.7	2314.5	2311.5
4°	2283.3	2269.9	2265.5	2288.2	2285.8
5°	2244.7	2230.9	2227.9	2250.1	2248.2
6°	2197.2	2185.8	2180.4	2202.7	2198.7
7°	2137.9	2127.5	2121.5	2137.9	2139.8
8°	2060.7	2055.8	2048.8	2065.1	2065.1
9°	1978.6	1974.1	1966.7	1981.6	1981.6
10°	1890.5	1887.6	1878.7	1892.5	1892.5
11°	1794.1	1792.6	1786.2	1797.5	1797.5
12°	1692.7	1696.1	1690.2	1700.1	1696.6
13°	1591.3	1589.8	1590.3	1597.7	1592.3
14°	1476.5	1485.4	1486.9	1491.4	1482.9
15°	1366.7	1378.1	1375.6	1382.0	1371.2
16°	1254.4	1267.3	1266.8	1268.3	1257.9
17°	1149.6	1157.0	1157.5	1156.0	1143.1
18°	1037.8	1048.2	1048.2	1045.7	1030.3
19°	928.5	936.4	941.8	936.4	918.6
20°	830.0	835.5	845.4	831.5	811.7
21°	735.5	740.5	748.9	732.6	710.8
22°	645.0	651.4	659.4	640.6	617.8
23°	560.4	575.3	578.2	552.5	533.2
24°	482.8	499.6	504.5	478.3	458.0
25°	413.5	432.3	443.7	413.0	392.7
26°	353.7	372.0	385.8	355.2	335.9
27°	301.2	320.5	334.9	306.2	287.9
28°	256.2	275.0	289.9	263.2	245.8
29°	222.6	233.5	248.3	226.1	210.2
30°	189.4	201.3	217.1	194.4	180.5
32.5°	130.1	136.5	148.9	135.0	124.2
35°	92.5	96.5	102.4	93.0	86.6
37.5°	65.8	67.8	71.2	65.8	62.3
40°	48.5	49.5	50.9	48.0	46.0
42.5°	36.1	36.6	36.6	35.6	34.6
45°	27.2	27.7	27.2	27.2	26.2
47.5°	19.8	21.3	20.8	20.8	19.3
50°	12.9	15.8	15.8	15.3	12.9
52.5°	7.9	10.9	12.4	10.9	8.4
55°	5.9	7.4	9.4	7.4	6.4
57.5°	5.9	5.9	6.9	5.9	5.9
60°	5.9	5.9	5.9	5.9	5.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	5.4	5.4	5.4	5.4	5.4
70°	5.4	5.4	4.9	5.4	5.4
72.5°	4.9	4.9	4.5	4.9	4.5
75°	4.0	4.0	4.0	4.0	4.0
77.5°	3.0	3.0	3.0	3.0	3.0
80°	2.5	2.5	2.5	2.5	2.5
82.5°	1.5	1.5	1.5	2.0	1.5
85°	1.0	1.0	1.0	1.0	1.0
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°







62.5°	5.9	5.9	5.9	5.9	5.9
65°	5.4	5.9	5.4	5.9	5.4



(END OF REPORT)