

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: P283563

Luminaire Tested: **LDA2B108040D010 EU2B10FL408040 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283563
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: LDA2B108040D010 EU2B10FL408040 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: 970.0 lumens
Efficiency: N/A
Efficacy: 97.0 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

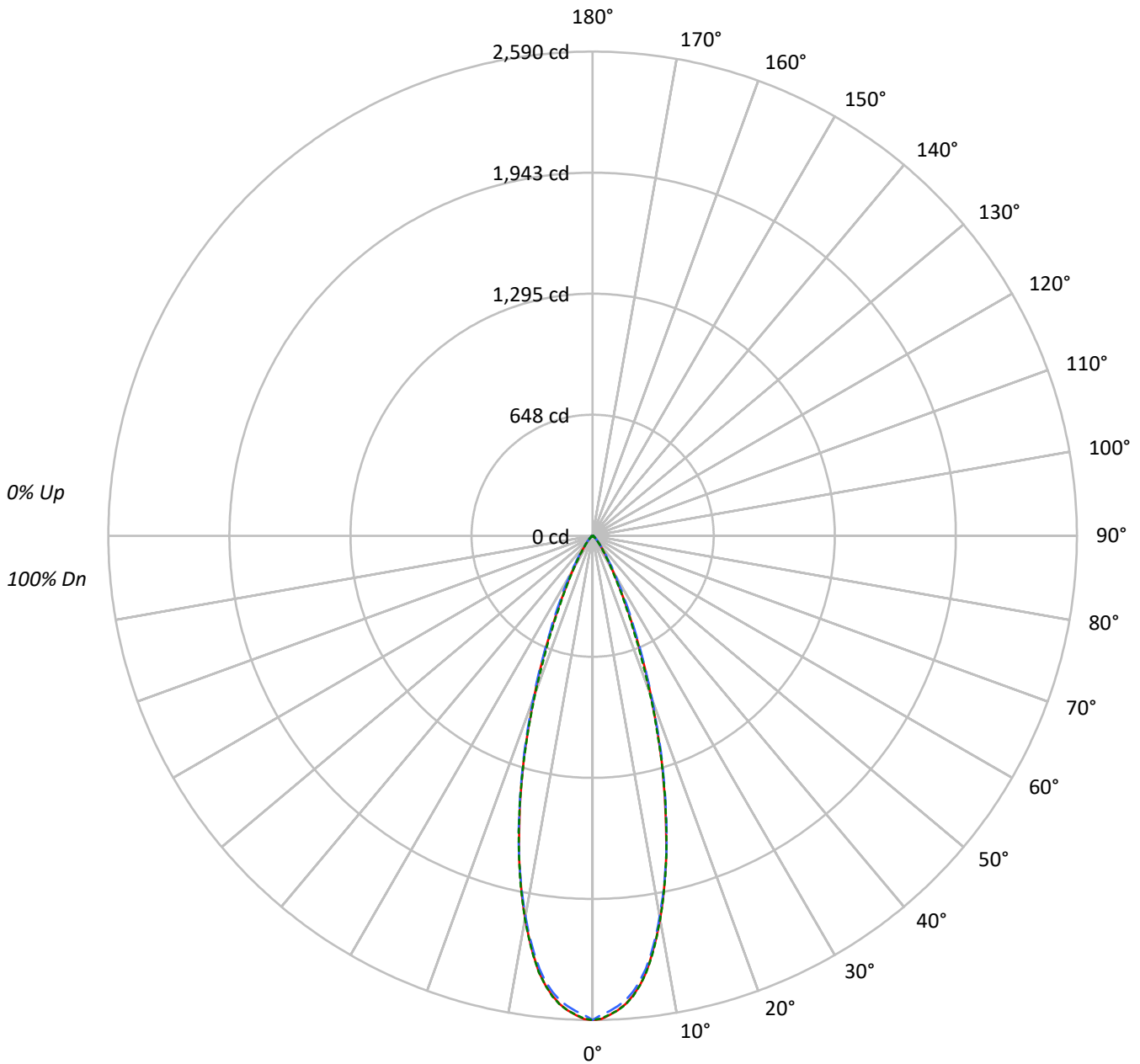
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283563

CATALOG NUMBER: LDA2B108040D010 EU2B10FL408040 2LBAPINSQ1MB

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°	1278004	1278004	1278004
5°	1223060	1213849	1224942
10°	1041973	1035410	1043075
15°	767987	772993	770490
20°	479453	488273	468847
25°	247631	265704	235220
30°	118722	136098	113139
35°	61312	67817	57337
40°	34327	36131	32588
45°	20862	20862	20094
50°	10822	13355	10822
55°	5591	8860	6107
60°	6414	6414	6414
65°	7004	7004	7004
70°	8655	7789	8655
75°	8387	8387	8387
80°	7671	7671	7671
85°	6227	6227	6227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.8	23.0
10°-20°	409.3	42.2
20°-30°	221.9	22.9
30°-40°	71.2	7.3
40°-50°	24.3	2.5
50°-60°	8.5	0.9
60°-70°	6.2	0.6
70°-80°	4.5	0.5
80°-90°	1.3	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°	854.0	88.0
0°-40°	925.2	95.4
0°-60°	958.0	98.8
0°-90°	970.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	970.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2590	2590	2590	2590	2590	
5°	2470	2454	2451	2476	2473	223
15°	1504	1516	1513	1520	1508	408
25°	455	476	488	454	432	218
35°	102	106	113	102	95	69
45°	30	30	30	30	29	24
55°	6	8	10	8	7	7
65°	6	6	6	6	6	6
75°	4	4	4	4	4	5
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°	2590.4	2590.4	2590.4	2590.4	2590.4
1°	2586.0	2567.5	2564.8	2588.7	2583.3
2°	2565.3	2547.9	2545.2	2569.1	2564.2
3°	2542.5	2526.7	2521.2	2546.3	2543.0
4°	2512.0	2497.3	2492.4	2517.4	2514.7
5°	2469.6	2454.3	2451.0	2475.5	2473.4
6°	2417.3	2404.8	2398.8	2423.3	2418.9
7°	2352.0	2340.6	2334.0	2352.0	2354.2
8°	2267.1	2261.7	2254.1	2272.0	2272.0
9°	2176.8	2171.9	2163.7	2180.0	2180.0
10°	2079.9	2076.6	2066.8	2082.1	2082.1
11°	1973.8	1972.2	1965.1	1977.6	1977.6
12°	1862.2	1866.0	1859.5	1870.4	1866.6
13°	1750.7	1749.0	1749.6	1757.7	1751.8
14°	1624.4	1634.2	1635.8	1640.7	1631.5
15°	1503.6	1516.1	1513.4	1520.5	1508.5
16°	1380.1	1394.2	1393.7	1395.3	1383.9
17°	1264.7	1272.9	1273.4	1271.8	1257.6
18°	1141.7	1153.1	1153.1	1150.4	1133.6
19°	1021.5	1030.2	1036.1	1030.2	1010.6
20°	913.2	919.1	930.0	914.8	893.0
21°	809.2	814.7	823.9	806.0	782.0
22°	709.6	716.7	725.4	704.7	679.7
23°	616.6	632.9	636.2	607.9	586.6
24°	531.1	549.6	555.1	526.2	503.9
25°	454.9	475.6	488.1	454.4	432.1
26°	389.1	409.2	424.5	390.7	369.5
27°	331.4	352.6	368.4	336.9	316.7
28°	281.9	302.6	318.9	289.5	270.5
29°	244.9	256.9	273.2	248.7	231.3
30°	208.4	221.5	238.9	213.9	198.6
32.5°	143.1	150.2	163.8	148.6	136.6
35°	101.8	106.1	112.6	102.3	95.2
37.5°	72.4	74.6	78.4	72.4	68.6
40°	53.3	54.4	56.1	52.8	50.6
42.5°	39.7	40.3	40.3	39.2	38.1
45°	29.9	30.5	29.9	29.9	28.8
47.5°	21.8	23.4	22.9	22.9	21.2
50°	14.1	17.4	17.4	16.9	14.1
52.5°	8.7	12.0	13.6	12.0	9.3
55°	6.5	8.2	10.3	8.2	7.1
57.5°	6.5	6.5	7.6	6.5	6.5
60°	6.5	6.5	6.5	6.5	6.5



TEST NUMBER: P283563

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	6.0	6.0	6.0	6.0	6.0
70°	6.0	6.0	5.4	6.0	6.0
72.5°	5.4	5.4	4.9	5.4	4.9
75°	4.4	4.4	4.4	4.4	4.4
77.5°	3.3	3.3	3.3	3.3	3.3
80°	2.7	2.7	2.7	2.7	2.7
82.5°	1.6	1.6	1.6	2.2	1.6
85°	1.1	1.1	1.1	1.1	1.1
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°	6.5	6.5	6.5	6.5	6.5
65°	6.0	6.5	6.0	6.5	6.0



(END OF REPORT)