

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: P283734

Luminaire Tested: **LDA2B208040D010 EU2B20FL408040 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283734
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: LDA2B208040D010 EU2B20FL408040 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1686.3 lumens
Efficiency: N/A
Efficacy: 81.9 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

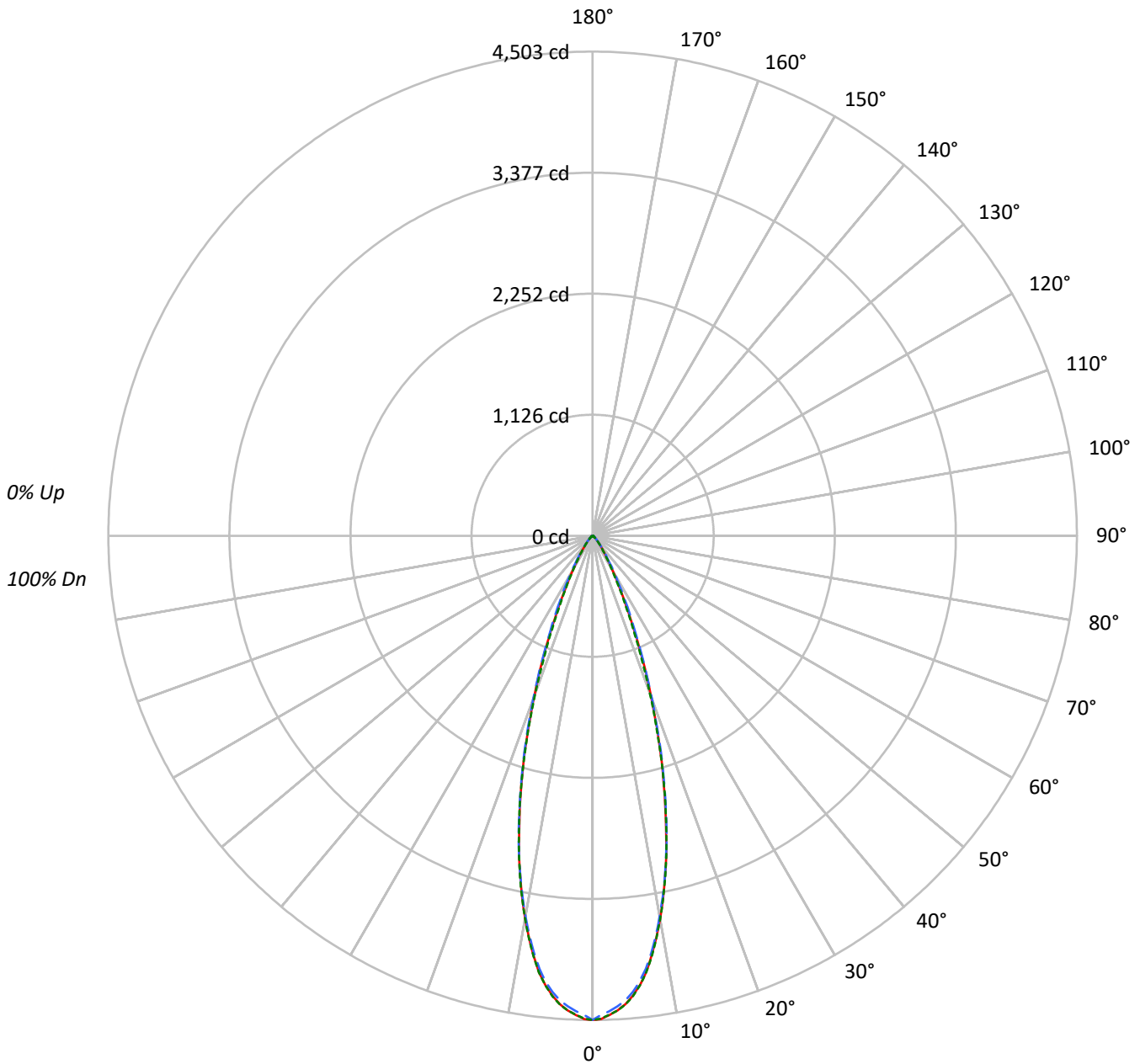
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2221707	2221707	2221707
5°	2126192	2110294	2129460
10°	1811417	1800045	1813321
15°	1335142	1343825	1339483
20°	833477	848860	815101
25°	430538	461948	408927
30°	206397	236590	196712
35°	106544	117927	99738
40°	59702	62729	56675
45°	36281	36281	34956
50°	18881	23256	18881
55°	9806	15483	10580
60°	11249	11249	11249
65°	12141	12141	12141
70°	15002	13704	15002
75°	14487	14487	14487
80°	13353	13353	13353
85°	10755	10755	10755



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.3	23.0
10°-20°	711.5	42.2
20°-30°	385.7	22.9
30°-40°	123.8	7.3
40°-50°	42.2	2.5
50°-60°	14.8	0.9
60°-70°	10.8	0.6
70°-80°	7.9	0.5
80°-90°	2.2	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°	1484.6	88.0
0°-40°	1608.4	95.4
0°-60°	1665.4	98.8
0°-90°	1686.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1686.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4503	4503	4503	4503	4503	
5°	4293	4267	4261	4304	4300	388
15°	2614	2636	2631	2643	2622	709
25°	791	827	849	790	751	379
35°	177	184	196	178	166	119
45°	52	53	52	52	50	41
55°	11	14	18	14	12	12
65°	10	11	10	11	10	11
75°	8	8	8	8	8	8
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4503.2	4503.2	4503.2	4503.2	4503.2
1°	4495.7	4463.5	4458.8	4500.4	4491.0
2°	4459.7	4429.5	4424.7	4466.4	4457.8
3°	4420.0	4392.6	4383.1	4426.6	4420.9
4°	4367.0	4341.5	4333.0	4376.5	4371.7
5°	4293.2	4266.7	4261.1	4303.6	4299.8
6°	4202.4	4180.6	4170.2	4212.8	4205.2
7°	4088.9	4069.0	4057.7	4088.9	4092.7
8°	3941.3	3931.8	3918.6	3949.8	3949.8
9°	3784.2	3775.7	3761.5	3789.9	3789.9
10°	3615.8	3610.2	3593.1	3619.6	3619.6
11°	3431.4	3428.5	3416.2	3438.0	3438.0
12°	3237.4	3244.0	3232.7	3251.6	3245.0
13°	3043.5	3040.6	3041.6	3055.8	3045.4
14°	2824.0	2841.0	2843.9	2852.4	2836.3
15°	2614.0	2635.7	2631.0	2643.3	2622.5
16°	2399.2	2423.8	2422.9	2425.7	2405.8
17°	2198.6	2212.8	2213.8	2210.9	2186.3
18°	1984.8	2004.7	2004.7	2000.0	1970.6
19°	1775.8	1790.9	1801.3	1790.9	1756.8
20°	1587.5	1597.9	1616.8	1590.3	1552.5
21°	1406.8	1416.3	1432.3	1401.1	1359.5
22°	1233.7	1246.0	1261.1	1225.1	1181.6
23°	1071.9	1100.3	1105.9	1056.7	1019.9
24°	923.4	955.5	965.0	914.8	876.1
25°	790.9	826.9	848.6	790.0	751.2
26°	676.4	711.4	737.9	679.3	642.4
27°	576.2	613.0	640.5	585.6	550.6
28°	490.1	526.0	554.4	503.3	470.2
29°	425.7	446.5	474.9	432.3	402.1
30°	362.3	385.0	415.3	371.8	345.3
32.5°	248.8	261.1	284.8	258.3	237.5
35°	176.9	184.5	195.8	177.9	165.6
37.5°	125.8	129.6	136.2	125.8	119.2
40°	92.7	94.6	97.4	91.8	88.0
42.5°	69.1	70.0	70.0	68.1	66.2
45°	52.0	53.0	52.0	52.0	50.1
47.5°	37.8	40.7	39.7	39.7	36.9
50°	24.6	30.3	30.3	29.3	24.6
52.5°	15.1	20.8	23.7	20.8	16.1
55°	11.4	14.2	18.0	14.2	12.3
57.5°	11.4	11.4	13.2	11.4	11.4
60°	11.4	11.4	11.4	11.4	11.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	10.4	10.4	10.4	10.4	10.4
70°	10.4	10.4	9.5	10.4	10.4
72.5°	9.5	9.5	8.5	9.5	8.5
75°	7.6	7.6	7.6	7.6	7.6
77.5°	5.7	5.7	5.7	5.7	5.7
80°	4.7	4.7	4.7	4.7	4.7
82.5°	2.8	2.8	2.8	3.8	2.8
85°	1.9	1.9	1.9	1.9	1.9
87.5°	0.9	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	11.4	11.4	11.4	11.4	11.4
65°	10.4	11.4	10.4	11.4	10.4



(END OF REPORT)