

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: P283718

Luminaire Tested: **LDA2B208030D010 EU2B20FL408030 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283718
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: LDA2B208030D010 EU2B20FL408030 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1762.5 lumens
Efficiency: N/A
Efficacy: 85.6 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

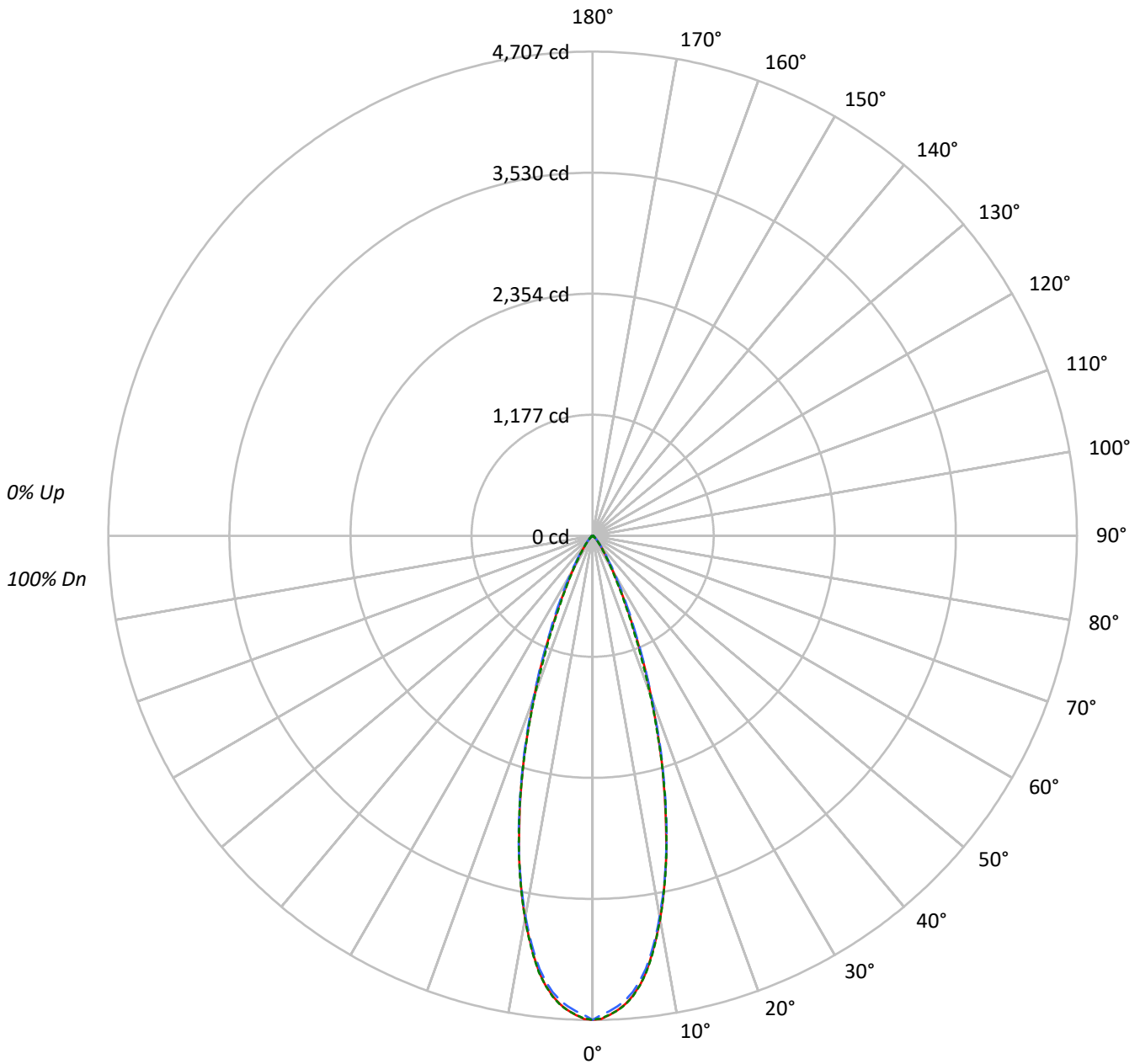
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2322106	2322106	2322106
5°	2222269	2205629	2225687
10°	1893276	1881403	1895280
15°	1395463	1404555	1400009
20°	871121	887239	851905
25°	449972	482851	427381
30°	215740	247300	205599
35°	111362	123287	104195
40°	62407	65563	59252
45°	37956	37956	36560
50°	19726	24254	19726
55°	10236	16171	11096
60°	11742	11742	11742
65°	12725	12725	12725
70°	15723	14281	15723
75°	15059	15059	15059
80°	13922	13922	13922
85°	11321	11321	11321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.8	23.0
10°-20°	743.6	42.2
20°-30°	403.2	22.9
30°-40°	129.4	7.3
40°-50°	44.1	2.5
50°-60°	15.5	0.9
60°-70°	11.3	0.6
70°-80°	8.2	0.5
80°-90°	2.4	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°	1551.6	88.0
0°-40°	1681.1	95.4
0°-60°	1740.6	98.8
0°-90°	1762.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1762.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4707	4707	4707	4707	4707	
5°	4487	4460	4454	4498	4494	406
15°	2732	2755	2750	2763	2741	741
25°	827	864	887	826	785	396
35°	185	193	205	186	173	125
45°	54	55	54	54	52	43
55°	12	15	19	15	13	13
65°	11	12	11	12	11	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°	4706.7	4706.7	4706.7	4706.7	4706.7
1°	4698.8	4665.2	4660.2	4703.7	4693.8
2°	4661.2	4629.6	4624.6	4668.1	4659.2
3°	4619.7	4591.0	4581.1	4626.6	4620.7
4°	4564.3	4537.6	4528.7	4574.2	4569.3
5°	4487.2	4459.5	4453.6	4498.1	4494.1
6°	4392.3	4369.5	4358.6	4403.1	4395.2
7°	4273.6	4252.8	4241.0	4273.6	4277.6
8°	4119.4	4109.5	4095.6	4128.3	4128.3
9°	3955.2	3946.3	3931.5	3961.1	3961.1
10°	3779.2	3773.3	3755.5	3783.2	3783.2
11°	3586.4	3583.4	3570.6	3593.3	3593.3
12°	3383.7	3390.6	3378.7	3398.5	3391.6
13°	3181.0	3178.0	3179.0	3193.8	3183.0
14°	2951.6	2969.4	2972.3	2981.2	2964.4
15°	2732.1	2754.8	2749.9	2762.7	2741.0
16°	2507.6	2533.3	2532.3	2535.3	2514.5
17°	2298.0	2312.8	2313.8	2310.8	2285.1
18°	2074.5	2095.3	2095.3	2090.3	2059.7
19°	1856.0	1871.8	1882.7	1871.8	1836.2
20°	1659.2	1670.1	1689.9	1662.2	1622.6
21°	1470.4	1480.2	1497.0	1464.4	1420.9
22°	1289.4	1302.3	1318.1	1280.5	1235.0
23°	1120.3	1150.0	1155.9	1104.5	1065.9
24°	965.1	998.7	1008.6	956.2	915.6
25°	826.6	864.2	887.0	825.7	785.1
26°	707.0	743.6	771.3	710.0	671.4
27°	602.2	640.7	669.4	612.1	575.5
28°	512.2	549.8	579.4	526.0	491.4
29°	445.0	466.7	496.4	451.9	420.2
30°	378.7	402.4	434.1	388.6	360.9
32.5°	260.1	272.9	297.6	269.9	248.2
35°	184.9	192.8	204.7	185.9	173.0
37.5°	131.5	135.5	142.4	131.5	124.6
40°	96.9	98.9	101.8	95.9	92.0
42.5°	72.2	73.2	73.2	71.2	69.2
45°	54.4	55.4	54.4	54.4	52.4
47.5°	39.6	42.5	41.5	41.5	38.6
50°	25.7	31.6	31.6	30.7	25.7
52.5°	15.8	21.8	24.7	21.8	16.8
55°	11.9	14.8	18.8	14.8	12.9
57.5°	11.9	11.9	13.8	11.9	11.9
60°	11.9	11.9	11.9	11.9	11.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	10.9	10.9	10.9	10.9	10.9
70°	10.9	10.9	9.9	10.9	10.9
72.5°	9.9	9.9	8.9	9.9	8.9
75°	7.9	7.9	7.9	7.9	7.9
77.5°	5.9	5.9	5.9	5.9	5.9
80°	4.9	4.9	4.9	4.9	4.9
82.5°	3.0	3.0	3.0	4.0	3.0
85°	2.0	2.0	2.0	2.0	2.0
87.5°	1.0	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	11.9	11.9	11.9	11.9	11.9
65°	10.9	11.9	10.9	11.9	10.9



(END OF REPORT)