

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: P283713

Luminaire Tested: **LDA2B208027D010 EU2B20FL408027 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283713
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: LDA2B208027D010 EU2B20FL408027 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1673.8 lumens
Efficiency: N/A
Efficacy: 81.3 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

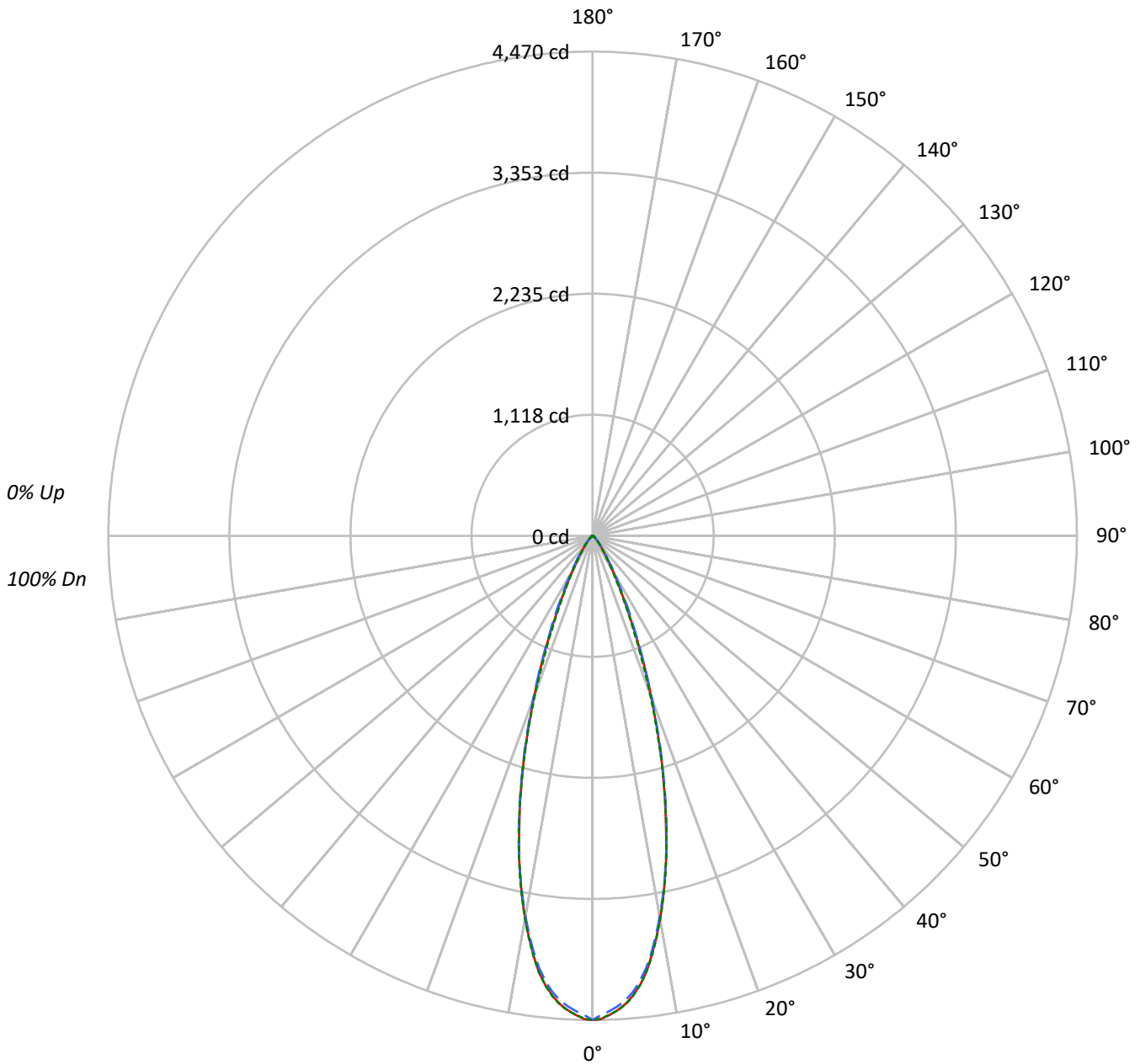
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2205327	2205327	2205327
5°	2110492	2094694	2113761
10°	1798041	1786769	1799945
15°	1325233	1333916	1329574
20°	827334	842612	809063
25°	427381	458518	405878
30°	204916	234881	195288
35°	105761	117084	98955
40°	59252	62278	56225
45°	36002	36002	34746
50°	18728	23103	18728
55°	9720	15311	10494
60°	11150	11150	11150
65°	12024	12024	12024
70°	14858	13559	14858
75°	14297	14297	14297
80°	13353	13353	13353
85°	10755	10755	10755



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.5	23.0
10°-20°	706.2	42.2
20°-30°	382.9	22.9
30°-40°	122.9	7.3
40°-50°	41.9	2.5
50°-60°	14.7	0.9
60°-70°	10.7	0.6
70°-80°	7.8	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°	1473.6	88.0
0°-40°	1596.5	95.4
0°-60°	1653.1	98.8
0°-90°	1673.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1673.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4470	4470	4470	4470	4470	
5°	4262	4235	4230	4272	4268	385
15°	2595	2616	2612	2624	2603	703
25°	785	821	842	784	746	376
35°	176	183	194	176	164	118
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°	4470.0	4470.0	4470.0	4470.0	4470.0
1°	4462.5	4430.5	4425.8	4467.2	4457.8
2°	4426.8	4396.7	4392.0	4433.3	4424.9
3°	4387.3	4360.1	4350.7	4393.9	4388.3
4°	4334.7	4309.4	4300.9	4344.1	4339.4
5°	4261.5	4235.2	4229.6	4271.8	4268.1
6°	4171.3	4149.7	4139.4	4181.7	4174.2
7°	4058.7	4038.9	4027.7	4058.7	4062.4
8°	3912.2	3902.8	3889.6	3920.6	3920.6
9°	3756.3	3747.8	3733.7	3761.9	3761.9
10°	3589.1	3583.5	3566.6	3592.9	3592.9
11°	3406.0	3403.2	3391.0	3412.6	3412.6
12°	3213.5	3220.1	3208.8	3227.6	3221.0
13°	3021.0	3018.2	3019.1	3033.2	3022.9
14°	2803.1	2820.0	2822.8	2831.3	2815.3
15°	2594.6	2616.2	2611.6	2623.8	2603.1
16°	2381.5	2405.9	2405.0	2407.8	2388.1
17°	2182.4	2196.5	2197.4	2194.6	2170.2
18°	1970.2	1989.9	1989.9	1985.2	1956.1
19°	1762.6	1777.7	1788.0	1777.7	1743.9
20°	1575.8	1586.1	1604.9	1578.6	1541.0
21°	1396.4	1405.8	1421.8	1390.8	1349.4
22°	1224.5	1236.8	1251.8	1216.1	1172.9
23°	1064.0	1092.1	1097.8	1048.9	1012.3
24°	916.5	948.5	957.9	908.1	869.6
25°	785.1	820.7	842.3	784.1	745.6
26°	671.4	706.2	732.5	674.3	637.6
27°	571.9	608.5	635.7	581.3	546.5
28°	486.4	522.1	550.3	499.6	466.7
29°	422.6	443.2	471.4	429.2	399.1
30°	359.7	382.2	412.3	369.1	342.8
32.5°	247.0	259.2	282.7	256.4	235.7
35°	175.6	183.1	194.4	176.5	164.3
37.5°	124.9	128.7	135.2	124.9	118.3
40°	92.0	93.9	96.7	91.1	87.3
42.5°	68.6	69.5	69.5	67.6	65.7
45°	51.6	52.6	51.6	51.6	49.8
47.5°	37.6	40.4	39.4	39.4	36.6
50°	24.4	30.1	30.1	29.1	24.4
52.5°	15.0	20.7	23.5	20.7	16.0
55°	11.3	14.1	17.8	14.1	12.2
57.5°	11.3	11.3	13.1	11.3	11.3
60°	11.3	11.3	11.3	11.3	11.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	10.3	10.3	10.3	10.3	10.3
70°	10.3	10.3	9.4	10.3	10.3
72.5°	9.4	9.4	8.5	9.4	8.5
75°	7.5	7.5	7.5	7.5	7.5
77.5°	5.6	5.6	5.6	5.6	5.6
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°	11.3	11.3	11.3	11.3	11.3
65°	10.3	11.3	10.3	11.3	10.3



(END OF REPORT)