

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: P283737

Luminaire Tested: **LDA2B208050D010 EU2B20FL408050 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283737
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: LDA2B208050D010 EU2B20FL408050 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: 1783.8 lumens
Efficiency: N/A
Efficacy: 86.6 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

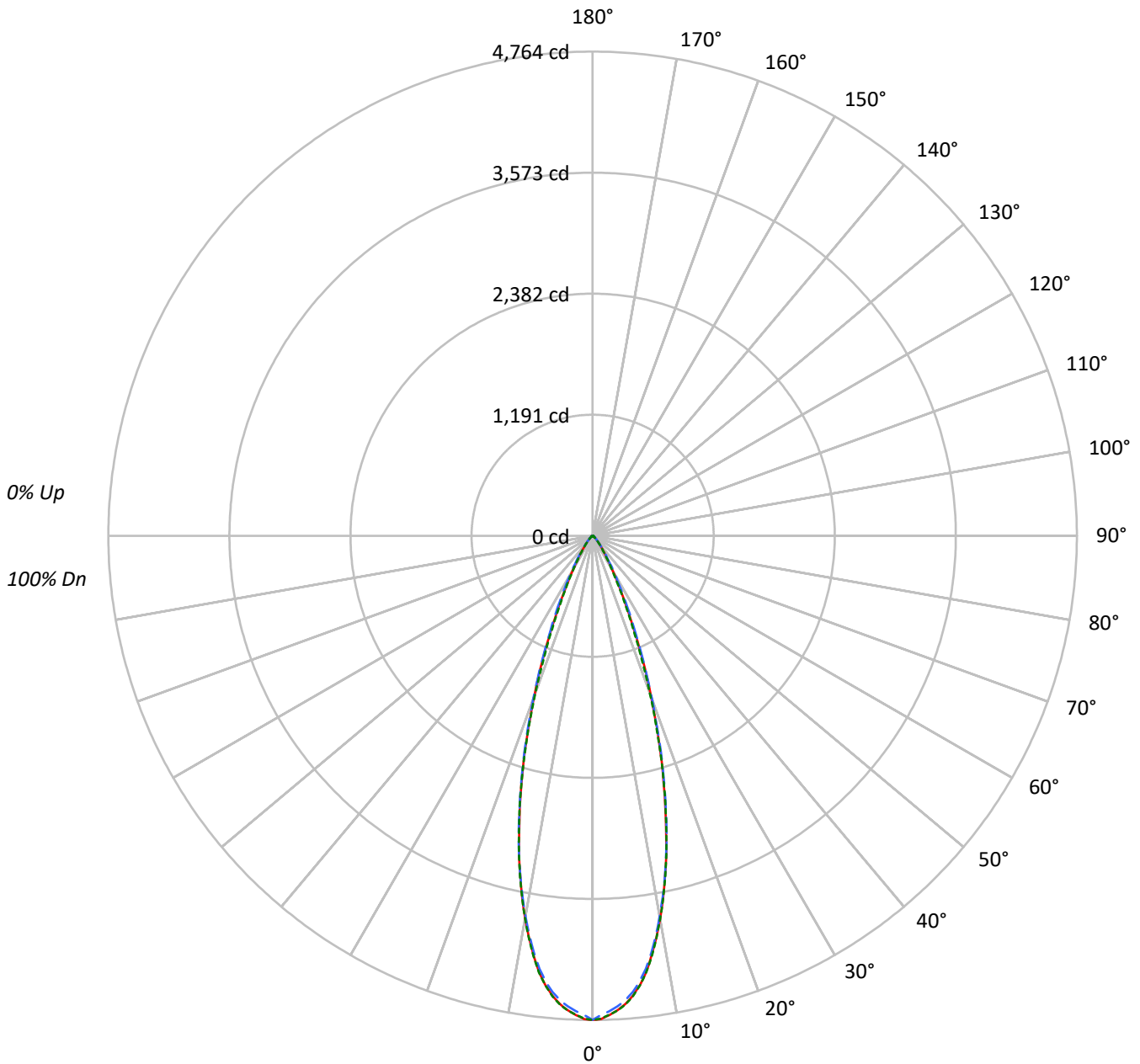
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2350326	2350326	2350326
5°	2249260	2232422	2252727
10°	1916271	1904247	1918275
15°	1412369	1421614	1416966
20°	881726	898002	862248
25°	455470	488676	432552
30°	218360	250320	208106
35°	112747	124793	105460
40°	63180	66400	59960
45°	38375	38375	36979
50°	19956	24561	19956
55°	10322	16343	11182
60°	11841	11841	11841
65°	12841	12841	12841
70°	15867	14425	15867
75°	15250	15250	15250
80°	14206	14206	14206
85°	11321	11321	11321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.8	23.0
10°-20°	752.7	42.2
20°-30°	408.1	22.9
30°-40°	131.0	7.3
40°-50°	44.6	2.5
50°-60°	15.6	0.9
60°-70°	11.4	0.6
70°-80°	8.3	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°	1570.5	88.0
0°-40°	1701.5	95.4
0°-60°	1761.7	98.8
0°-90°	1783.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1783.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4764	4764	4764	4764	4764	
5°	4542	4514	4508	4553	4549	411
15°	2765	2788	2783	2796	2774	750
25°	837	875	898	836	795	401
35°	187	195	207	188	175	126
45°	55	56	55	55	53	44
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°	4763.9	4763.9	4763.9	4763.9	4763.9
1°	4755.9	4721.8	4716.8	4760.9	4750.9
2°	4717.8	4685.8	4680.8	4724.8	4715.8
3°	4675.8	4646.8	4636.8	4682.8	4676.8
4°	4619.7	4592.7	4583.7	4629.8	4624.8
5°	4541.7	4513.7	4507.7	4552.7	4548.7
6°	4445.6	4422.6	4411.6	4456.6	4448.6
7°	4325.5	4304.5	4292.5	4325.5	4329.5
8°	4169.4	4159.4	4145.4	4178.4	4178.4
9°	4003.2	3994.2	3979.2	4009.3	4009.3
10°	3825.1	3819.1	3801.1	3829.1	3829.1
11°	3629.9	3626.9	3613.9	3636.9	3636.9
12°	3424.8	3431.8	3419.8	3439.8	3432.8
13°	3219.6	3216.6	3217.6	3232.6	3221.6
14°	2987.4	3005.4	3008.4	3017.4	3000.4
15°	2765.2	2788.3	2783.3	2796.3	2774.2
16°	2538.1	2564.1	2563.1	2566.1	2545.1
17°	2325.9	2340.9	2341.9	2338.9	2312.9
18°	2099.7	2120.7	2120.7	2115.7	2084.7
19°	1878.5	1894.5	1905.5	1894.5	1858.5
20°	1679.4	1690.4	1710.4	1682.4	1642.3
21°	1488.2	1498.2	1515.2	1482.2	1438.2
22°	1305.1	1318.1	1334.1	1296.1	1250.0
23°	1133.9	1163.9	1169.9	1117.9	1078.9
24°	976.8	1010.8	1020.8	967.8	926.8
25°	836.7	874.7	897.7	835.7	794.6
26°	715.6	752.6	780.6	718.6	679.6
27°	609.5	648.5	677.5	619.5	582.5
28°	518.4	556.5	586.5	532.4	497.4
29°	450.4	472.4	502.4	457.4	425.3
30°	383.3	407.3	439.4	393.3	365.3
32.5°	263.2	276.2	301.2	273.2	251.2
35°	187.2	195.2	207.2	188.2	175.1
37.5°	133.1	137.1	144.1	133.1	126.1
40°	98.1	100.1	103.1	97.1	93.1
42.5°	73.1	74.1	74.1	72.1	70.1
45°	55.0	56.0	55.0	55.0	53.0
47.5°	40.0	43.0	42.0	42.0	39.0
50°	26.0	32.0	32.0	31.0	26.0
52.5°	16.0	22.0	25.0	22.0	17.0
55°	12.0	15.0	19.0	15.0	13.0
57.5°	12.0	12.0	14.0	12.0	12.0
60°	12.0	12.0	12.0	12.0	12.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	<i>11.0</i>	11.0	11.0	11.0	11.0
70°	<i>11.0</i>	11.0	10.0	11.0	11.0
72.5°	<i>10.0</i>	10.0	9.0	10.0	9.0
75°	<i>8.0</i>	8.0	8.0	8.0	8.0
77.5°	<i>6.0</i>	6.0	6.0	6.0	6.0
80°	<i>5.0</i>	5.0	5.0	5.0	5.0
82.5°	<i>3.0</i>	3.0	3.0	4.0	3.0
85°	<i>2.0</i>	2.0	2.0	2.0	2.0
87.5°	<i>1.0</i>	1.0	1.0	1.0	1.0
90°	<i>0.0</i>	0.0	0.0	0.0	0.0



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







62.5°	12.0	12.0	12.0	12.0	12.0
65°	11.0	12.0	11.0	12.0	11.0



(END OF REPORT)