

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: P283725

Luminaire Tested: **LDA2B208035D010 EU2B20FL408035 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283725
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: LDA2B208035D010 EU2B20FL408035 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: 1724.9 lumens
Efficiency: N/A
Efficacy: 83.7 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

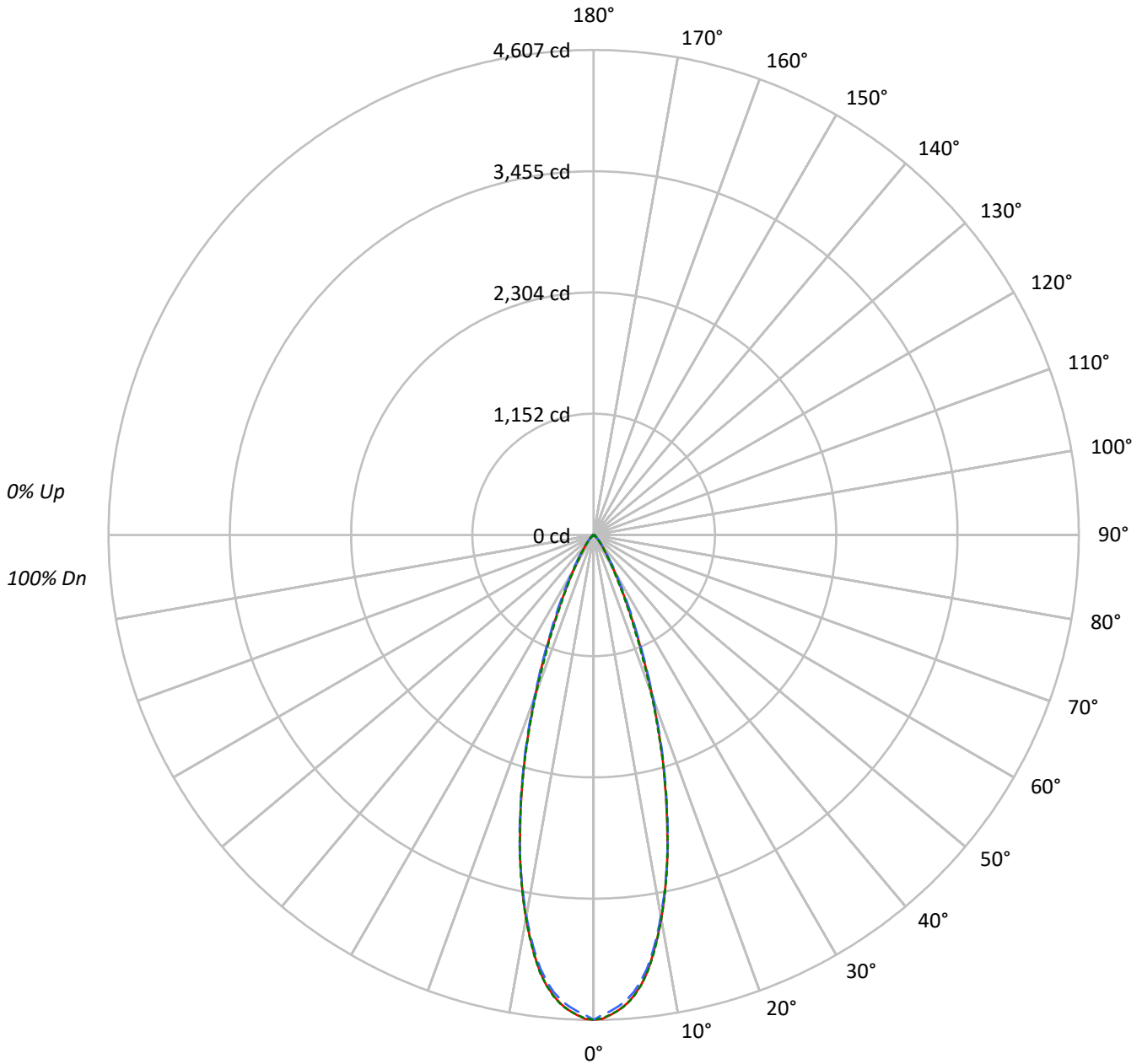
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2272770	2272770	2272770
5°	2175072	2158779	2178391
10°	1853048	1841425	1855002
15°	1365788	1374675	1370231
20°	852640	868391	833844
25°	440445	472563	418290
30°	211182	242059	201213
35°	109013	120637	102027
40°	61055	64211	57963
45°	37119	37119	35793
50°	19342	23794	19342
55°	9978	15827	10838
60°	11446	11446	11446
65°	12374	12374	12374
70°	15290	13992	15290
75°	14678	14678	14678
80°	13638	13638	13638
85°	10755	10755	10755



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.2	23.0
10°-20°	727.8	42.2
20°-30°	394.6	22.9
30°-40°	126.7	7.3
40°-50°	43.2	2.5
50°-60°	15.1	0.9
60°-70°	11.0	0.6
70°-80°	8.0	0.5
80°-90°	2.3	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°	1518.7	88.0
0°-40°	1645.3	95.4
0°-60°	1703.6	98.8
0°-90°	1724.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1724.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4607	4607	4607	4607	4607	
5°	4392	4365	4359	4402	4399	397
15°	2674	2696	2691	2704	2683	725
25°	809	846	868	808	768	388
35°	181	189	200	182	169	122
45°	53	54	53	53	51	42
55°	12	14	18	14	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°	4606.7	4606.7	4606.7	4606.7	4606.7
1°	4599.0	4566.1	4561.2	4603.8	4594.1
2°	4562.2	4531.2	4526.4	4569.0	4560.3
3°	4521.5	4493.5	4483.8	4528.3	4522.5
4°	4467.3	4441.2	4432.5	4477.0	4472.2
5°	4391.9	4364.8	4359.0	4402.5	4398.6
6°	4298.9	4276.7	4266.0	4309.6	4301.9
7°	4182.8	4162.5	4150.9	4182.8	4186.7
8°	4031.8	4022.2	4008.6	4040.5	4040.5
9°	3871.2	3862.5	3848.0	3877.0	3877.0
10°	3698.9	3693.1	3675.7	3702.8	3702.8
11°	3510.2	3507.3	3494.7	3517.0	3517.0
12°	3311.8	3318.6	3307.0	3326.3	3319.5
13°	3113.4	3110.5	3111.5	3126.0	3115.3
14°	2888.9	2906.3	2909.2	2917.9	2901.5
15°	2674.0	2696.3	2691.4	2704.0	2682.7
16°	2454.3	2479.5	2478.5	2481.4	2461.1
17°	2249.2	2263.7	2264.6	2261.7	2236.6
18°	2030.4	2050.8	2050.8	2045.9	2015.9
19°	1816.6	1832.0	1842.7	1832.0	1797.2
20°	1624.0	1634.6	1654.0	1626.9	1588.2
21°	1439.1	1448.8	1465.2	1433.3	1390.7
22°	1262.0	1274.6	1290.1	1253.3	1208.8
23°	1096.5	1125.5	1131.4	1081.0	1043.3
24°	944.6	977.5	987.2	935.9	896.2
25°	809.1	845.9	868.1	808.1	768.4
26°	692.0	727.8	754.9	694.9	657.1
27°	589.4	627.1	655.2	599.1	563.3
28°	501.3	538.1	567.1	514.9	481.0
29°	435.5	456.8	485.8	442.3	411.3
30°	370.7	393.9	424.9	380.3	353.2
32.5°	254.5	267.1	291.3	264.2	242.9
35°	181.0	188.7	200.3	181.9	169.4
37.5°	128.7	132.6	139.4	128.7	121.9
40°	94.8	96.8	99.7	93.9	90.0
42.5°	70.6	71.6	71.6	69.7	67.7
45°	53.2	54.2	53.2	53.2	51.3
47.5°	38.7	41.6	40.6	40.6	37.7
50°	25.2	31.0	31.0	30.0	25.2
52.5°	15.5	21.3	24.2	21.3	16.5
55°	11.6	14.5	18.4	14.5	12.6
57.5°	11.6	11.6	13.5	11.6	11.6
60°	11.6	11.6	11.6	11.6	11.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	10.6	10.6	10.6	10.6	10.6
70°	10.6	10.6	9.7	10.6	10.6
72.5°	9.7	9.7	8.7	9.7	8.7
75°	7.7	7.7	7.7	7.7	7.7
77.5°	5.8	5.8	5.8	5.8	5.8
80°	4.8	4.8	4.8	4.8	4.8
82.5°	2.9	2.9	2.9	3.9	2.9
85°	1.9	1.9	1.9	1.9	1.9
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°	11.6	11.6	11.6	11.6	11.6
65°	10.6	11.6	10.6	11.6	10.6



(END OF REPORT)