

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: P283727

Luminaire Tested: **LDA2B208035D010 EU2B20FL408035 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283727
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 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1682.0 lumens
Efficiency: N/A
Efficacy: 81.6 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

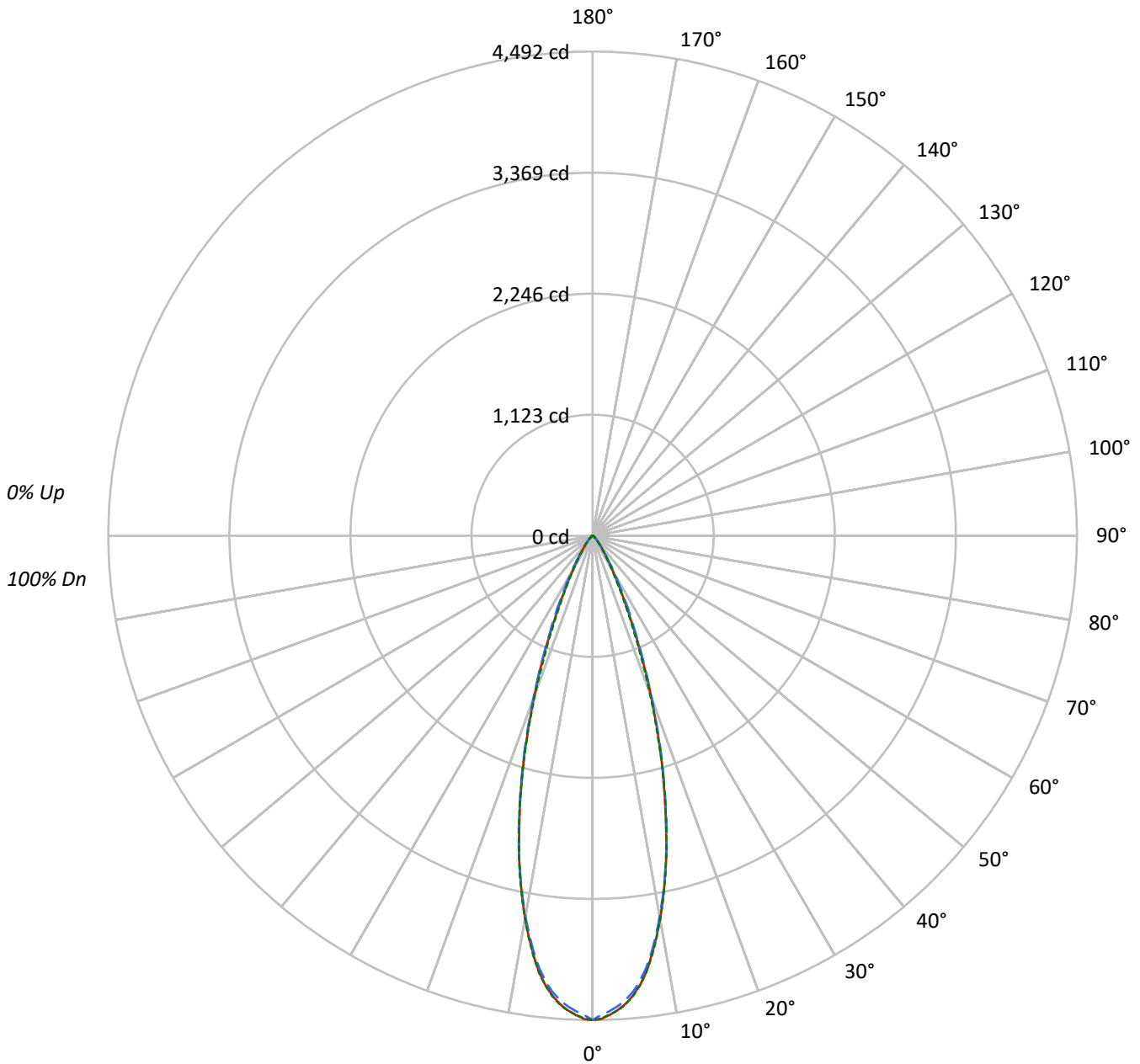
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2216132	2216132	2216132
5°	2120843	2104946	2124112
10°	1806858	1795536	1808762
15°	1331771	1340402	1336112
20°	831377	846707	813053
25°	429449	460805	407892
30°	205884	236021	196200
35°	106303	117626	99437
40°	59574	62601	56547
45°	36212	36212	34886
50°	18805	23180	18805
55°	9720	15397	10580
60°	11150	11150	11150
65°	12141	12141	12141
70°	15002	13559	15002
75°	14297	14297	14297
80°	13353	13353	13353
85°	10755	10755	10755



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.4	23.0
10°-20°	709.7	42.2
20°-30°	384.8	22.9
30°-40°	123.5	7.3
40°-50°	42.1	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°	1480.8	88.0
0°-40°	1604.3	95.4
0°-60°	1661.2	98.8
0°-90°	1682.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1682.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4492	4492	4492	4492	4492	
5°	4282	4256	4250	4293	4289	387
15°	2607	2629	2624	2637	2616	707
25°	789	825	846	788	749	378
35°	176	184	195	177	165	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°	4491.9	4491.9	4491.9	4491.9	4491.9
1°	4484.3	4452.2	4447.5	4489.0	4479.6
2°	4448.5	4418.3	4413.5	4455.1	4446.6
3°	4408.8	4381.5	4372.0	4415.4	4409.8
4°	4356.0	4330.5	4322.0	4365.4	4360.7
5°	4282.4	4256.0	4250.3	4292.8	4289.0
6°	4191.8	4170.1	4159.7	4202.2	4194.6
7°	4078.5	4058.7	4047.4	4078.5	4082.3
8°	3931.3	3921.9	3908.7	3939.8	3939.8
9°	3774.7	3766.2	3752.0	3780.3	3780.3
10°	3606.7	3601.0	3584.1	3610.5	3610.5
11°	3422.7	3419.9	3407.6	3429.3	3429.3
12°	3229.2	3235.8	3224.5	3243.4	3236.8
13°	3035.8	3033.0	3033.9	3048.1	3037.7
14°	2816.9	2833.8	2836.7	2845.2	2829.1
15°	2607.4	2629.1	2624.3	2636.6	2615.9
16°	2393.1	2417.7	2416.7	2419.6	2399.8
17°	2193.1	2207.2	2208.2	2205.4	2180.8
18°	1979.8	1999.6	1999.6	1994.9	1965.7
19°	1771.3	1786.4	1796.7	1786.4	1752.4
20°	1583.5	1593.9	1612.7	1586.3	1548.6
21°	1403.2	1412.7	1428.7	1397.6	1356.1
22°	1230.5	1242.8	1257.9	1222.1	1178.6
23°	1069.2	1097.5	1103.2	1054.1	1017.3
24°	921.0	953.1	962.5	912.5	873.8
25°	788.9	824.8	846.5	788.0	749.3
26°	674.7	709.6	736.1	677.6	640.8
27°	574.7	611.5	638.9	584.1	549.2
28°	488.8	524.7	553.0	502.0	469.0
29°	424.7	445.4	473.7	431.3	401.1
30°	361.4	384.1	414.3	370.9	344.4
32.5°	248.2	260.5	284.0	257.6	236.9
35°	176.5	184.0	195.3	177.4	165.1
37.5°	125.5	129.3	135.9	125.5	118.9
40°	92.5	94.4	97.2	91.5	87.8
42.5°	68.9	69.8	69.8	67.9	66.1
45°	51.9	52.8	51.9	51.9	50.0
47.5°	37.7	40.6	39.6	39.6	36.8
50°	24.5	30.2	30.2	29.3	24.5
52.5°	15.1	20.8	23.6	20.8	16.0
55°	11.3	14.2	17.9	14.2	12.3
57.5°	11.3	11.3	13.2	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°	10.4	10.4	10.4	10.4	10.4
70°	10.4	10.4	9.4	10.4	10.4
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°	5.7	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°	11.3	11.3	11.3	11.3	11.3
65°	10.4	11.3	10.4	11.3	10.4



(END OF REPORT)