

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: P283722

Luminaire Tested: **LDA2B208030D010 EU2B20FL408030 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283722
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 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1602.3 lumens
Efficiency: N/A
Efficacy: 77.8 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

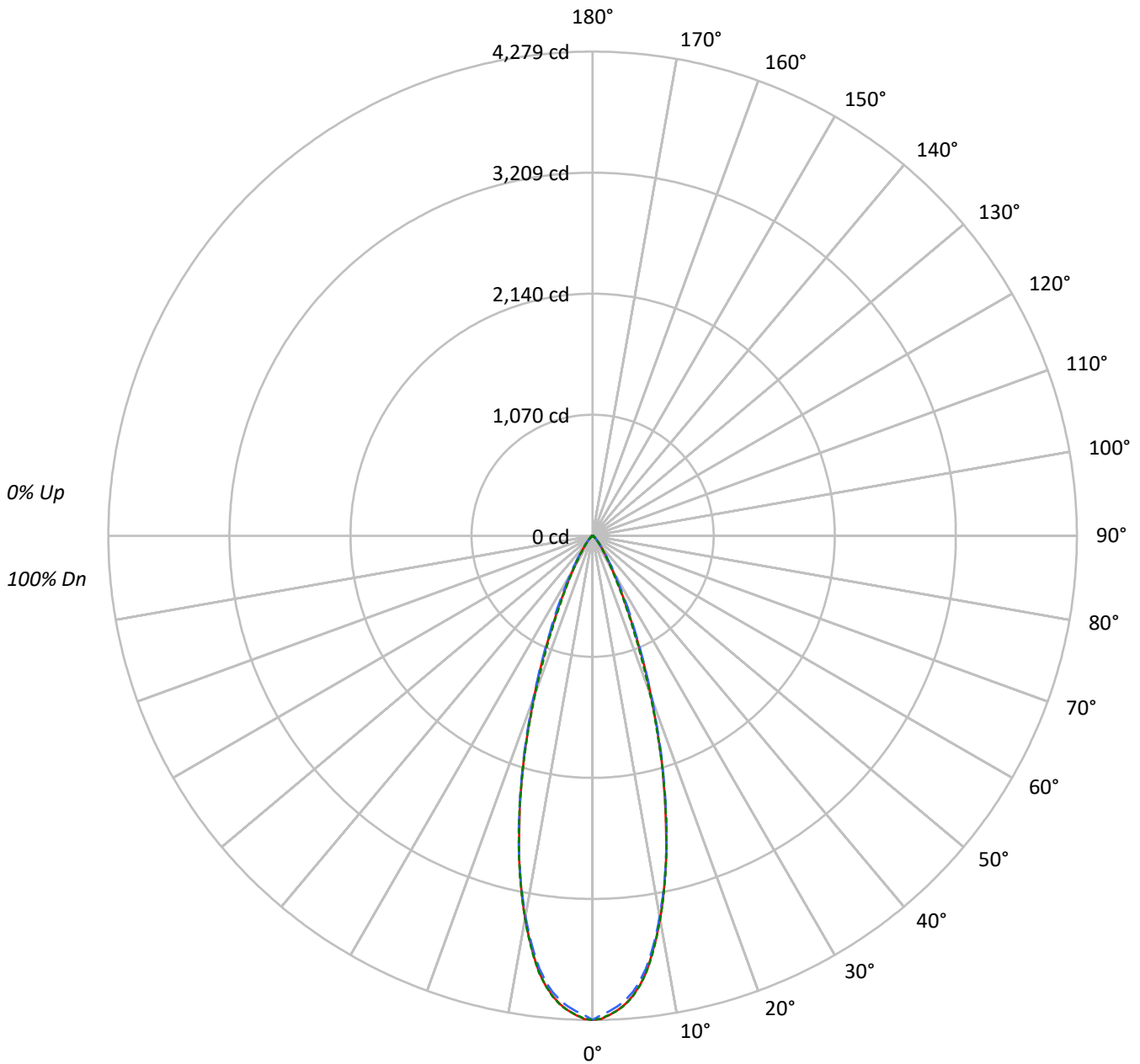
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2110996	2110996	2110996
5°	2020258	2005104	2023378
10°	1721142	1710371	1722945
15°	1268589	1276863	1272726
20°	791947	806543	774464
25°	409090	438921	388513
30°	196143	224798	186914
35°	101244	112085	94739
40°	56740	59638	53842
45°	34467	34467	33211
50°	17960	22105	17960
55°	9290	14709	10064
60°	10657	10657	10657
65°	11557	11557	11557
70°	14281	12982	14281
75°	13725	13725	13725
80°	12785	12785	12785
85°	10189	10189	10189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.0	23.0
10°-20°	676.0	42.2
20°-30°	366.5	22.9
30°-40°	117.7	7.3
40°-50°	40.1	2.5
50°-60°	14.1	0.9
60°-70°	10.2	0.6
70°-80°	7.5	0.5
80°-90°	2.1	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°	1410.6	88.0
0°-40°	1528.2	95.4
0°-60°	1582.4	98.8
0°-90°	1602.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1602.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4279	4279	4279	4279	4279	
5°	4079	4054	4049	4089	4086	369
15°	2484	2504	2500	2512	2492	673
25°	752	786	806	751	714	360
35°	168	175	186	169	157	113
45°	49	50	49	49	48	39
55°	11	14	17	14	12	12
65°	10	11	10	11	10	10
75°	7	7	7	7	7	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°	4278.8	4278.8	4278.8	4278.8	4278.8
1°	4271.6	4241.1	4236.6	4276.1	4267.1
2°	4237.5	4208.7	4204.2	4243.8	4235.7
3°	4199.7	4173.6	4164.7	4206.0	4200.6
4°	4149.4	4125.1	4117.0	4158.4	4153.9
5°	4079.3	4054.1	4048.7	4089.2	4085.6
6°	3993.0	3972.3	3962.4	4002.9	3995.7
7°	3885.1	3866.2	3855.4	3885.1	3888.7
8°	3744.9	3735.9	3723.3	3753.0	3753.0
9°	3595.6	3587.6	3574.1	3601.0	3601.0
10°	3435.6	3430.2	3414.1	3439.2	3439.2
11°	3260.4	3257.7	3246.0	3266.6	3266.6
12°	3076.1	3082.4	3071.6	3089.6	3083.3
13°	2891.8	2889.1	2890.0	2903.5	2893.6
14°	2683.3	2699.4	2702.1	2710.2	2694.9
15°	2483.7	2504.4	2499.9	2511.6	2491.8
16°	2279.6	2303.0	2302.1	2304.8	2285.9
17°	2089.1	2102.6	2103.5	2100.8	2077.4
18°	1885.9	1904.8	1904.8	1900.3	1872.4
19°	1687.3	1701.6	1711.5	1701.6	1669.3
20°	1508.4	1518.3	1536.2	1511.1	1475.1
21°	1336.7	1345.7	1361.0	1331.3	1291.7
22°	1172.2	1183.9	1198.2	1164.1	1122.7
23°	1018.5	1045.4	1050.8	1004.1	969.0
24°	877.3	907.9	916.9	869.2	832.4
25°	751.5	785.6	806.3	750.6	713.7
26°	642.7	676.0	701.2	645.4	610.4
27°	547.4	582.5	608.6	556.4	523.2
28°	465.6	499.8	526.8	478.2	446.8
29°	404.5	424.3	451.3	410.8	382.0
30°	344.3	365.9	394.6	353.3	328.1
32.5°	236.4	248.1	270.6	245.4	225.6
35°	168.1	175.3	186.1	169.0	157.3
37.5°	119.6	123.2	129.4	119.6	113.3
40°	88.1	89.9	92.6	87.2	83.6
42.5°	65.6	66.5	66.5	64.7	62.9
45°	49.4	50.3	49.4	49.4	47.6
47.5°	36.0	38.7	37.8	37.8	35.1
50°	23.4	28.8	28.8	27.9	23.4
52.5°	14.4	19.8	22.5	19.8	15.3
55°	10.8	13.5	17.1	13.5	11.7
57.5°	10.8	10.8	12.6	10.8	10.8
60°	10.8	10.8	10.8	10.8	10.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	9.9	9.9	9.9	9.9	9.9
70°	9.9	9.9	9.0	9.9	9.9
72.5°	9.0	9.0	8.1	9.0	8.1
75°	7.2	7.2	7.2	7.2	7.2
77.5°	5.4	5.4	5.4	5.4	5.4
80°	4.5	4.5	4.5	4.5	4.5
82.5°	2.7	2.7	2.7	3.6	2.7
85°	1.8	1.8	1.8	1.8	1.8
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°	10.8	10.8	10.8	10.8	10.8
65°	9.9	10.8	9.9	10.8	9.9



(END OF REPORT)