

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: P283506

Luminaire Tested: **LDA2B059030D010 EU2B05FL409030 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283506
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: LDA2B059030D010 EU2B05FL409030 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 500 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: 513.9 lumens
Efficiency: N/A
Efficacy: 73.4 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

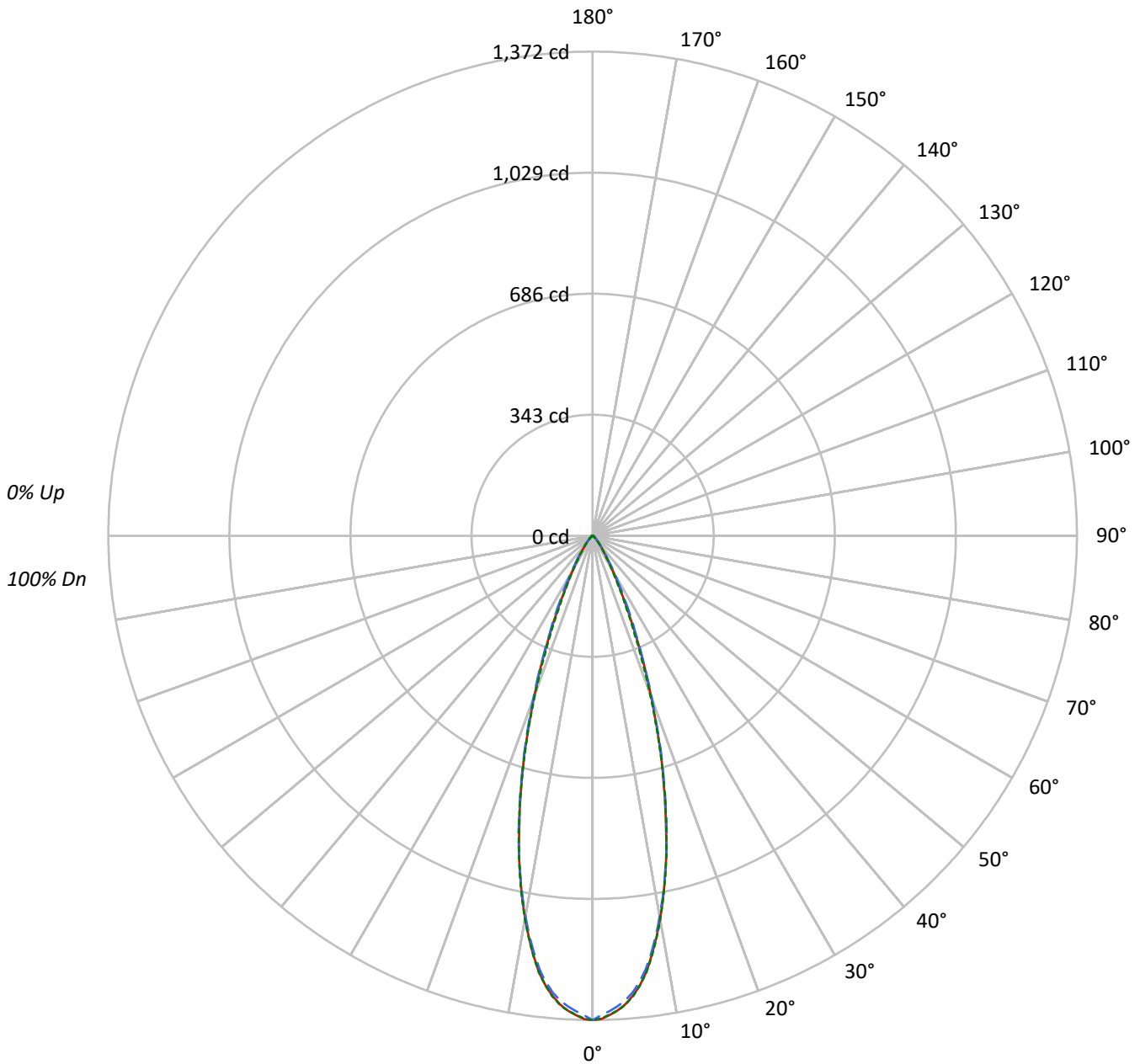
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	677090	677090	677090
5°	647980	643127	648971
10°	552022	548565	552623
15°	406876	409532	408204
20°	254007	258680	248389
25°	131192	140773	124605
30°	62893	72122	59931
35°	32463	35956	30415
40°	18226	19128	17260
45°	11094	11094	10675
50°	5757	7061	5757
55°	3011	4731	3183
60°	3454	3454	3454
65°	3736	3736	3736
70°	4616	4183	4616
75°	4384	4384	4384
80°	3978	3978	3978
85°	3396	3396	3396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.0	23.0
10°-20°	216.8	42.2
20°-30°	117.6	22.9
30°-40°	37.7	7.3
40°-50°	12.9	2.5
50°-60°	4.5	0.9
60°-70°	3.3	0.6
70°-80°	2.4	0.5
80°-90°	0.7	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°	452.4	88.0
0°-40°	490.2	95.4
0°-60°	507.5	98.8
0°-90°	513.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	513.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1372	1372	1372	1372	1372	
5°	1308	1300	1299	1312	1310	118
15°	797	803	802	806	799	216
25°	241	252	259	241	229	116
35°	54	56	60	54	50	36
45°	16	16	16	16	15	13
55°	4	4	6	4	4	4
65°	3	4	3	4	3	3
75°	2	2	2	2	2	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1372.4	1372.4	1372.4	1372.4	1372.4
1°	1370.1	1360.3	1358.8	1371.5	1368.6
2°	1359.1	1349.9	1348.4	1361.1	1358.5
3°	1347.0	1338.6	1335.7	1349.0	1347.3
4°	1330.8	1323.1	1320.5	1333.7	1332.3
5°	1308.4	1300.3	1298.6	1311.5	1310.4
6°	1280.7	1274.0	1270.9	1283.8	1281.5
7°	1246.1	1240.0	1236.6	1246.1	1247.2
8°	1201.1	1198.2	1194.2	1203.7	1203.7
9°	1153.2	1150.6	1146.3	1155.0	1155.0
10°	1101.9	1100.2	1095.0	1103.1	1103.1
11°	1045.7	1044.8	1041.1	1047.7	1047.7
12°	986.6	988.6	985.2	990.9	988.9
13°	927.5	926.6	926.9	931.2	928.1
14°	860.6	865.8	866.7	869.3	864.4
15°	796.6	803.2	801.8	805.5	799.2
16°	731.2	738.7	738.4	739.2	733.2
17°	670.0	674.4	674.6	673.8	666.3
18°	604.9	610.9	610.9	609.5	600.6
19°	541.2	545.8	548.9	545.8	535.4
20°	483.8	487.0	492.7	484.7	473.1
21°	428.7	431.6	436.5	427.0	414.3
22°	376.0	379.7	384.3	373.4	360.1
23°	326.7	335.3	337.0	322.0	310.8
24°	281.4	291.2	294.1	278.8	267.0
25°	241.0	252.0	258.6	240.7	228.9
26°	206.1	216.8	224.9	207.0	195.8
27°	175.6	186.8	195.2	178.5	167.8
28°	149.3	160.3	169.0	153.4	143.3
29°	129.7	136.1	144.7	131.8	122.5
30°	110.4	117.3	126.6	113.3	105.2
32.5°	75.8	79.6	86.8	78.7	72.4
35°	53.9	56.2	59.7	54.2	50.5
37.5°	38.3	39.5	41.5	38.3	36.3
40°	28.3	28.8	29.7	28.0	26.8
42.5°	21.0	21.3	21.3	20.8	20.2
45°	15.9	16.1	15.9	15.9	15.3
47.5°	11.5	12.4	12.1	12.1	11.2
50°	7.5	9.2	9.2	8.9	7.5
52.5°	4.6	6.3	7.2	6.3	4.9
55°	3.5	4.3	5.5	4.3	3.7
57.5°	3.5	3.5	4.0	3.5	3.5
60°	3.5	3.5	3.5	3.5	3.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	3.2	3.2	3.2	3.2	3.2
70°	3.2	3.2	2.9	3.2	3.2
72.5°	2.9	2.9	2.6	2.9	2.6
75°	2.3	2.3	2.3	2.3	2.3
77.5°	1.7	1.7	1.7	1.7	1.7
80°	1.4	1.4	1.4	1.4	1.4
82.5°	0.9	0.9	0.9	1.2	0.9
85°	0.6	0.6	0.6	0.6	0.6
87.5°	0.3	0.3	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	3.5	3.5	3.5	3.5	3.5
65°	3.2	3.5	3.2	3.5	3.2



(END OF REPORT)