

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: P283519

Luminaire Tested: **LDA2B059040D010 EU2B05FL409040 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283519
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: LDA2B059040D010 EU2B05FL409040 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 553.2 lumens
Efficiency: N/A
Efficacy: 79.0 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

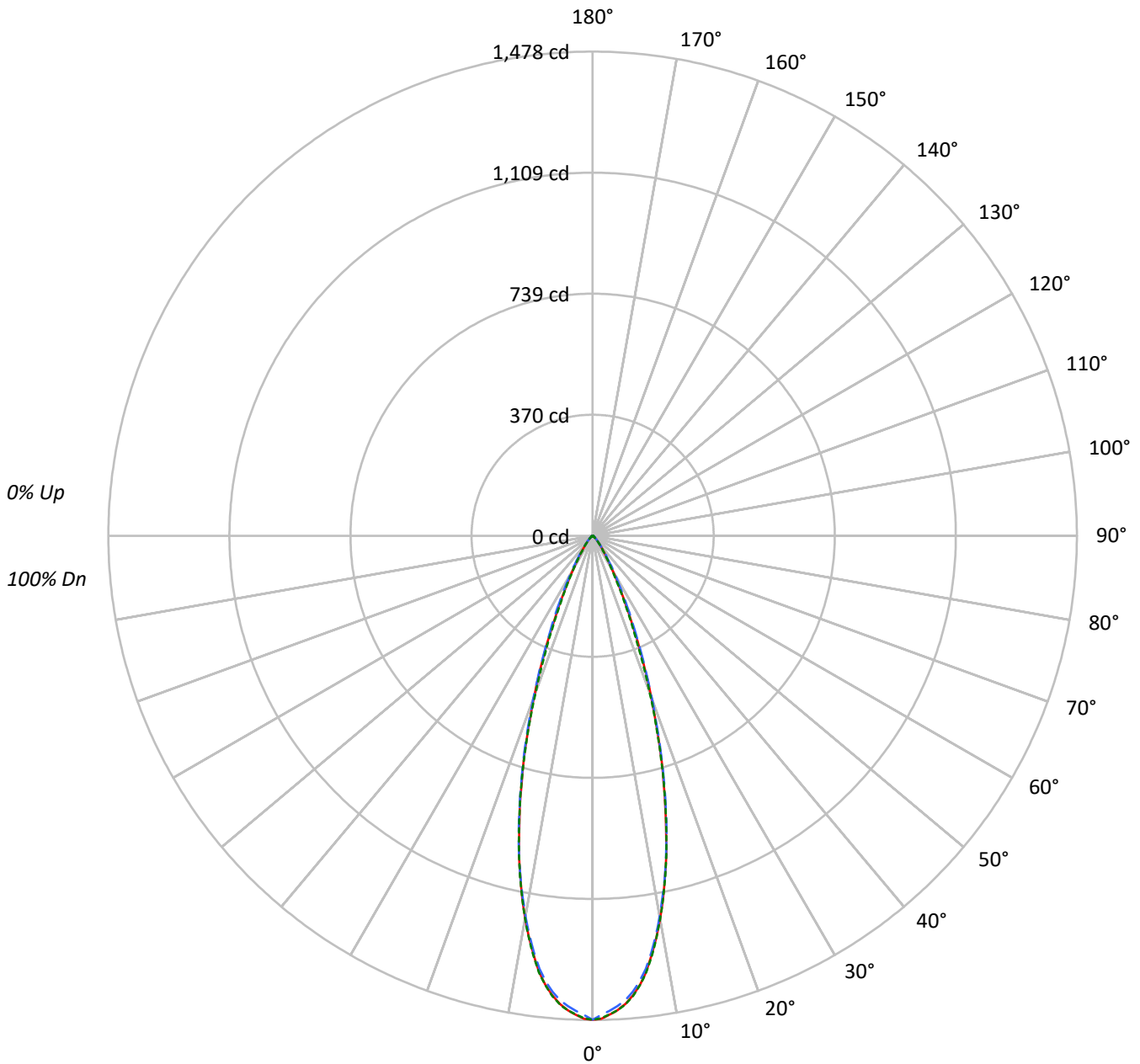
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	728942	728942	728942
5°	697604	692354	698644
10°	594304	590597	594955
15°	438033	440893	439463
20°	273433	278526	267448
25°	141263	151551	134186
30°	67736	77648	64545
35°	34932	38727	32704
40°	19579	20609	18613
45°	11931	11931	11512
50°	6217	7599	6217
55°	3183	5075	3441
60°	3651	3651	3651
65°	3969	3969	3969
70°	4904	4472	4904
75°	4766	4766	4766
80°	4546	4546	4546
85°	3396	3396	3396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.1	23.0
10°-20°	233.4	42.2
20°-30°	126.6	22.9
30°-40°	40.6	7.3
40°-50°	13.8	2.5
50°-60°	4.8	0.9
60°-70°	3.5	0.6
70°-80°	2.6	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°	487.1	88.0
0°-40°	527.7	95.4
0°-60°	546.4	98.8
0°-90°	553.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	553.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1478	1478	1478	1478	1478	
5°	1409	1400	1398	1412	1411	127
15°	858	865	863	867	860	232
25°	260	271	278	259	246	124
35°	58	60	64	58	54	39
45°	17	17	17	17	16	14
55°	4	5	6	5	4	4
65°	3	4	3	4	3	3
75°	2	2	2	2	2	3
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°	1477.5	1477.5	1477.5	1477.5	1477.5
1°	1475.0	1464.4	1462.9	1476.5	1473.4
2°	1463.2	1453.3	1451.7	1465.4	1462.6
3°	1450.2	1441.2	1438.1	1452.3	1450.5
4°	1432.8	1424.4	1421.6	1435.9	1434.3
5°	1408.6	1399.9	1398.0	1412.0	1410.7
6°	1378.8	1371.6	1368.2	1382.2	1379.7
7°	1341.5	1335.0	1331.3	1341.5	1342.8
8°	1293.1	1290.0	1285.7	1295.9	1295.9
9°	1241.6	1238.8	1234.1	1243.4	1243.4
10°	1186.3	1184.5	1178.9	1187.6	1187.6
11°	1125.8	1124.9	1120.8	1128.0	1128.0
12°	1062.2	1064.3	1060.6	1066.8	1064.7
13°	998.5	997.6	997.9	1002.6	999.2
14°	926.5	932.1	933.0	935.8	930.6
15°	857.6	864.8	863.2	867.2	860.4
16°	787.2	795.2	794.9	795.9	789.3
17°	721.4	726.0	726.3	725.4	717.3
18°	651.2	657.7	657.7	656.2	646.6
19°	582.6	587.6	591.0	587.6	576.4
20°	520.8	524.3	530.5	521.8	509.4
21°	461.6	464.7	469.9	459.7	446.0
22°	404.8	408.8	413.8	402.0	387.7
23°	351.7	361.0	362.9	346.7	334.6
24°	302.9	313.5	316.6	300.2	287.4
25°	259.5	271.3	278.4	259.2	246.5
26°	221.9	233.4	242.1	222.9	210.8
27°	189.0	201.1	210.1	192.1	180.6
28°	160.8	172.6	181.9	165.1	154.3
29°	139.7	146.5	155.8	141.9	131.9
30°	118.9	126.3	136.3	122.0	113.3
32.5°	81.6	85.7	93.4	84.7	77.9
35°	58.0	60.5	64.3	58.4	54.3
37.5°	41.3	42.5	44.7	41.3	39.1
40°	30.4	31.0	32.0	30.1	28.9
42.5°	22.7	23.0	23.0	22.3	21.7
45°	17.1	17.4	17.1	17.1	16.5
47.5°	12.4	13.3	13.0	13.0	12.1
50°	8.1	9.9	9.9	9.6	8.1
52.5°	5.0	6.8	7.8	6.8	5.3
55°	3.7	4.7	5.9	4.7	4.0
57.5°	3.7	3.7	4.3	3.7	3.7
60°	3.7	3.7	3.7	3.7	3.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	3.4	3.4	3.4	3.4	3.4
70°	3.4	3.4	3.1	3.4	3.4
72.5°	3.1	3.1	2.8	3.1	2.8
75°	2.5	2.5	2.5	2.5	2.5
77.5°	1.9	1.9	1.9	1.9	1.9
80°	1.6	1.6	1.6	1.6	1.6
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°	3.7	3.7	3.7	3.7	3.7
65°	3.4	3.7	3.4	3.7	3.4



(END OF REPORT)