

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: P283507

Luminaire Tested: **LDA2B059030D010 EU2B05FL409030 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283507
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 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: 521.8 lumens
Efficiency: N/A
Efficacy: 74.5 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

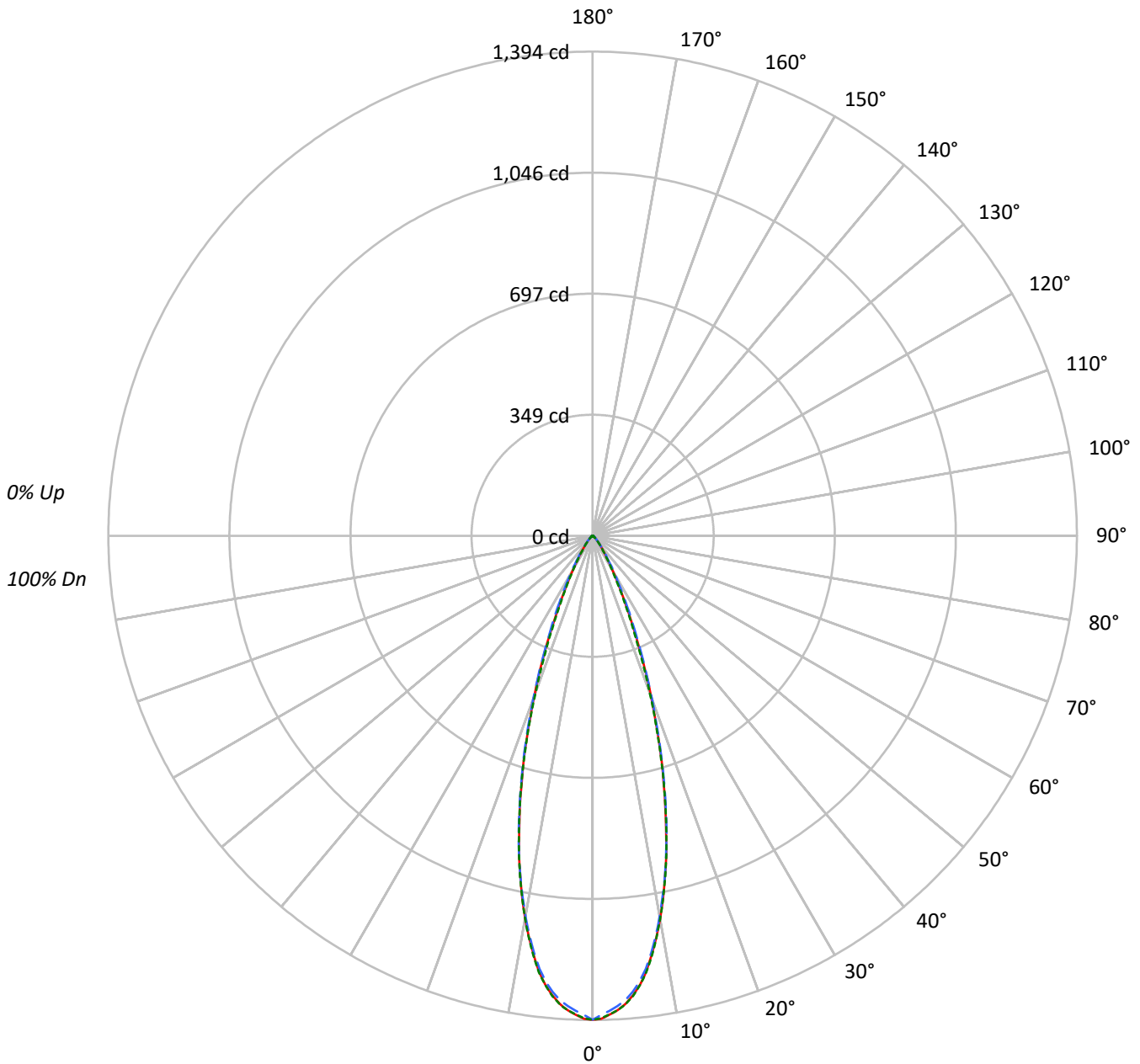
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95					95			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90					90			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86					86			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82					82			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79					79			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75					75			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72					72			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69					69			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67					67			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64					64			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	687500	687500	687500
5°	657935	653032	658975
10°	560538	557032	561140
15°	413158	415865	414486
20°	257945	262670	252222
25°	133206	142950	126565
30°	63862	73205	60899
35°	32945	36498	30837
40°	18484	19450	17518
45°	11233	11233	10815
50°	5833	7215	5833
55°	3011	4817	3269
60°	3454	3454	3454
65°	3736	3736	3736
70°	4616	4183	4616
75°	4384	4384	4384
80°	4262	4262	4262
85°	3396	3396	3396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.9	23.0
10°-20°	220.2	42.2
20°-30°	119.4	22.9
30°-40°	38.3	7.3
40°-50°	13.1	2.5
50°-60°	4.6	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°	459.4	88.0
0°-40°	497.7	95.4
0°-60°	515.4	98.8
0°-90°	521.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	521.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1394	1394	1394	1394	1394	
5°	1328	1320	1319	1332	1331	120
15°	809	816	814	818	812	219
25°	245	256	263	244	232	117
35°	55	57	61	55	51	37
45°	16	16	16	16	16	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°	1393.5	1393.5	1393.5	1393.5	1393.5
1°	1391.2	1381.2	1379.8	1392.7	1389.7
2°	1380.1	1370.7	1369.2	1382.1	1379.5
3°	1367.8	1359.3	1356.4	1369.8	1368.1
4°	1351.4	1343.5	1340.8	1354.3	1352.8
5°	1328.5	1320.3	1318.6	1331.8	1330.6
6°	1300.4	1293.7	1290.5	1303.7	1301.3
7°	1265.3	1259.2	1255.6	1265.3	1266.5
8°	1219.6	1216.7	1212.6	1222.3	1222.3
9°	1171.0	1168.4	1164.0	1172.8	1172.8
10°	1118.9	1117.2	1111.9	1120.1	1120.1
11°	1061.8	1061.0	1057.2	1063.9	1063.9
12°	1001.8	1003.9	1000.4	1006.2	1004.2
13°	941.8	940.9	941.2	945.6	942.4
14°	873.9	879.2	880.0	882.7	877.7
15°	808.9	815.6	814.2	818.0	811.5
16°	742.4	750.1	749.8	750.6	744.5
17°	680.4	684.8	685.1	684.2	676.6
18°	614.2	620.4	620.4	618.9	609.8
19°	549.5	554.2	557.4	554.2	543.7
20°	491.3	494.5	500.3	492.1	480.4
21°	435.3	438.3	443.2	433.6	420.7
22°	381.8	385.6	390.2	379.1	365.7
23°	331.7	340.5	342.2	327.0	315.6
24°	285.7	295.7	298.6	283.1	271.1
25°	244.7	255.9	262.6	244.5	232.5
26°	209.3	220.2	228.4	210.2	198.8
27°	178.3	189.7	198.2	181.2	170.4
28°	151.6	162.8	171.6	155.7	145.5
29°	131.7	138.2	147.0	133.8	124.4
30°	112.1	119.2	128.5	115.1	106.9
32.5°	77.0	80.8	88.1	79.9	73.5
35°	54.7	57.1	60.6	55.0	51.2
37.5°	38.9	40.1	42.2	38.9	36.9
40°	28.7	29.3	30.2	28.4	27.2
42.5°	21.4	21.7	21.7	21.1	20.5
45°	16.1	16.4	16.1	16.1	15.5
47.5°	11.7	12.6	12.3	12.3	11.4
50°	7.6	9.4	9.4	9.1	7.6
52.5°	4.7	6.4	7.3	6.4	5.0
55°	3.5	4.4	5.6	4.4	3.8
57.5°	3.5	3.5	4.1	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°	1.8	1.8	1.8	1.8	1.8
80°	1.5	1.5	1.5	1.5	1.5
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)