

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: P283496

Luminaire Tested: **LDA2B059027D010 EU2B05FL409027 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283496
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: LDA2B059027D010 EU2B05FL409027 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 541.7 lumens
Efficiency: N/A
Efficacy: 77.4 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

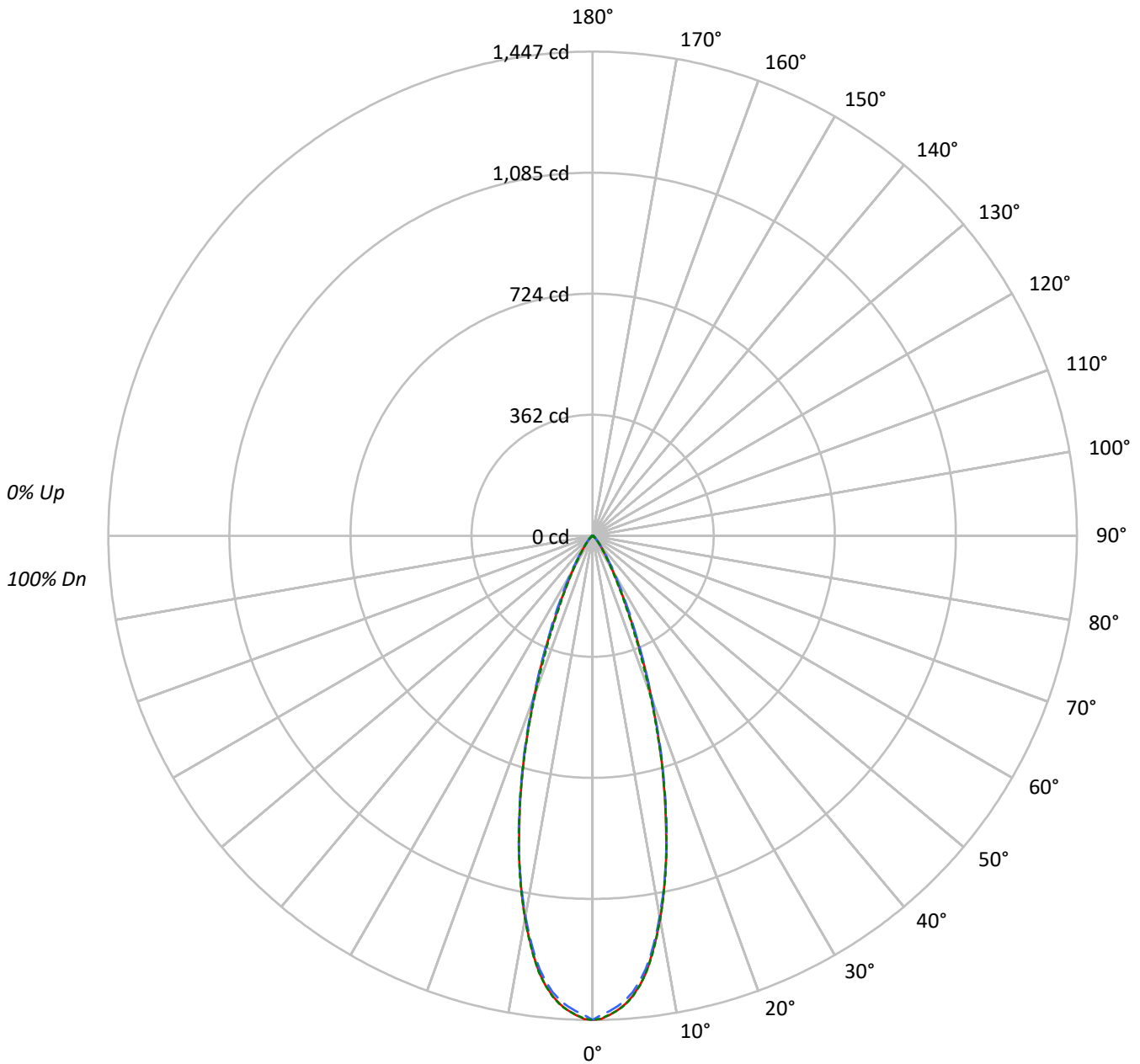
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	75	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	66	71	68	65	64																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	713845	713845	713845
5°	683192	678042	684232
10°	582030	578373	582631
15°	428992	431801	430371
20°	267815	272750	261882
25°	138323	148448	131410
30°	66311	75996	63235
35°	34210	37884	32041
40°	19192	20158	18226
45°	11652	11652	11233
50°	6064	7445	6064
55°	3097	4989	3441
60°	3552	3552	3552
65°	3852	3852	3852
70°	4760	4327	4760
75°	4575	4575	4575
80°	4262	4262	4262
85°	3396	3396	3396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	23.0
10°-20°	228.6	42.2
20°-30°	123.9	22.9
30°-40°	39.8	7.3
40°-50°	13.6	2.5
50°-60°	4.7	0.9
60°-70°	3.4	0.6
70°-80°	2.5	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°	477.0	88.1
0°-40°	516.8	95.4
0°-60°	535.1	98.8
0°-90°	541.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	541.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1447	1447	1447	1447	1447	
5°	1380	1371	1369	1383	1382	125
15°	840	847	845	849	843	228
25°	254	266	273	254	241	122
35°	57	59	63	57	53	38
45°	17	17	17	17	16	13
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°	1446.9	1446.9	1446.9	1446.9	1446.9
1°	1444.5	1434.2	1432.7	1446.0	1443.0
2°	1433.0	1423.2	1421.7	1435.1	1432.4
3°	1420.2	1411.4	1408.3	1422.3	1420.5
4°	1403.2	1395.0	1392.2	1406.2	1404.7
5°	1379.5	1371.0	1369.1	1382.8	1381.6
6°	1350.3	1343.3	1339.9	1353.6	1351.2
7°	1313.8	1307.4	1303.8	1313.8	1315.0
8°	1266.4	1263.3	1259.1	1269.1	1269.1
9°	1215.9	1213.2	1208.6	1217.7	1217.7
10°	1161.8	1160.0	1154.5	1163.0	1163.0
11°	1102.5	1101.6	1097.7	1104.7	1104.7
12°	1040.2	1042.4	1038.7	1044.8	1042.7
13°	977.9	977.0	977.3	981.9	978.5
14°	907.4	912.9	913.8	916.5	911.3
15°	839.9	846.9	845.4	849.3	842.6
16°	770.9	778.8	778.5	779.4	773.0
17°	706.5	711.0	711.3	710.4	702.5
18°	637.8	644.1	644.1	642.6	633.2
19°	570.6	575.4	578.8	575.4	564.5
20°	510.1	513.4	519.5	511.0	498.8
21°	452.0	455.1	460.2	450.2	436.8
22°	396.4	400.3	405.2	393.7	379.7
23°	344.4	353.5	355.4	339.5	327.7
24°	296.7	307.0	310.1	293.9	281.5
25°	254.1	265.7	272.7	253.8	241.4
26°	217.3	228.6	237.1	218.3	206.4
27°	185.1	197.0	205.8	188.2	176.9
28°	157.5	169.0	178.1	161.7	151.1
29°	136.8	143.5	152.6	138.9	129.2
30°	116.4	123.7	133.4	119.5	111.0
32.5°	79.9	83.9	91.5	83.0	76.3
35°	56.8	59.3	62.9	57.1	53.2
37.5°	40.4	41.6	43.8	40.4	38.3
40°	29.8	30.4	31.3	29.5	28.3
42.5°	22.2	22.5	22.5	21.9	21.3
45°	16.7	17.0	16.7	16.7	16.1
47.5°	12.2	13.1	12.8	12.8	11.9
50°	7.9	9.7	9.7	9.4	7.9
52.5°	4.9	6.7	7.6	6.7	5.2
55°	3.6	4.6	5.8	4.6	4.0
57.5°	3.6	3.6	4.3	3.6	3.6
60°	3.6	3.6	3.6	3.6	3.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	3.3	3.3	3.3	3.3	3.3
70°	3.3	3.3	3.0	3.3	3.3
72.5°	3.0	3.0	2.7	3.0	2.7
75°	2.4	2.4	2.4	2.4	2.4
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°	3.6	3.6	3.6	3.6	3.6
65°	3.3	3.6	3.3	3.6	3.3



(END OF REPORT)