

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: P209529

Luminaire Tested: **LDA6A10930D2WD010TED2W LARL15SP 6LA1H DIF-20**

Test Date: 10/31/16

Test Information

Test Method: LM-41-14
Report Number: P209529
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29029)
Test Lab: INNOVATION CENTER-P2
Test Date: 10/31/16
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA6A10930D2WD010TED2W LARL15SP 6LA1H DIF-20
Description: 6" ROUND, 1000lm D2W, FLOOD OPTIC WITH DIFFUSED LENS, ACCENT SELF
FLANGED, HAZE TRIM
Light Source: (1) High Lumen 3000K 90 CRI LED
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 560.8 lumens
Efficiency: N/A
Efficacy: 41.2 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.57
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

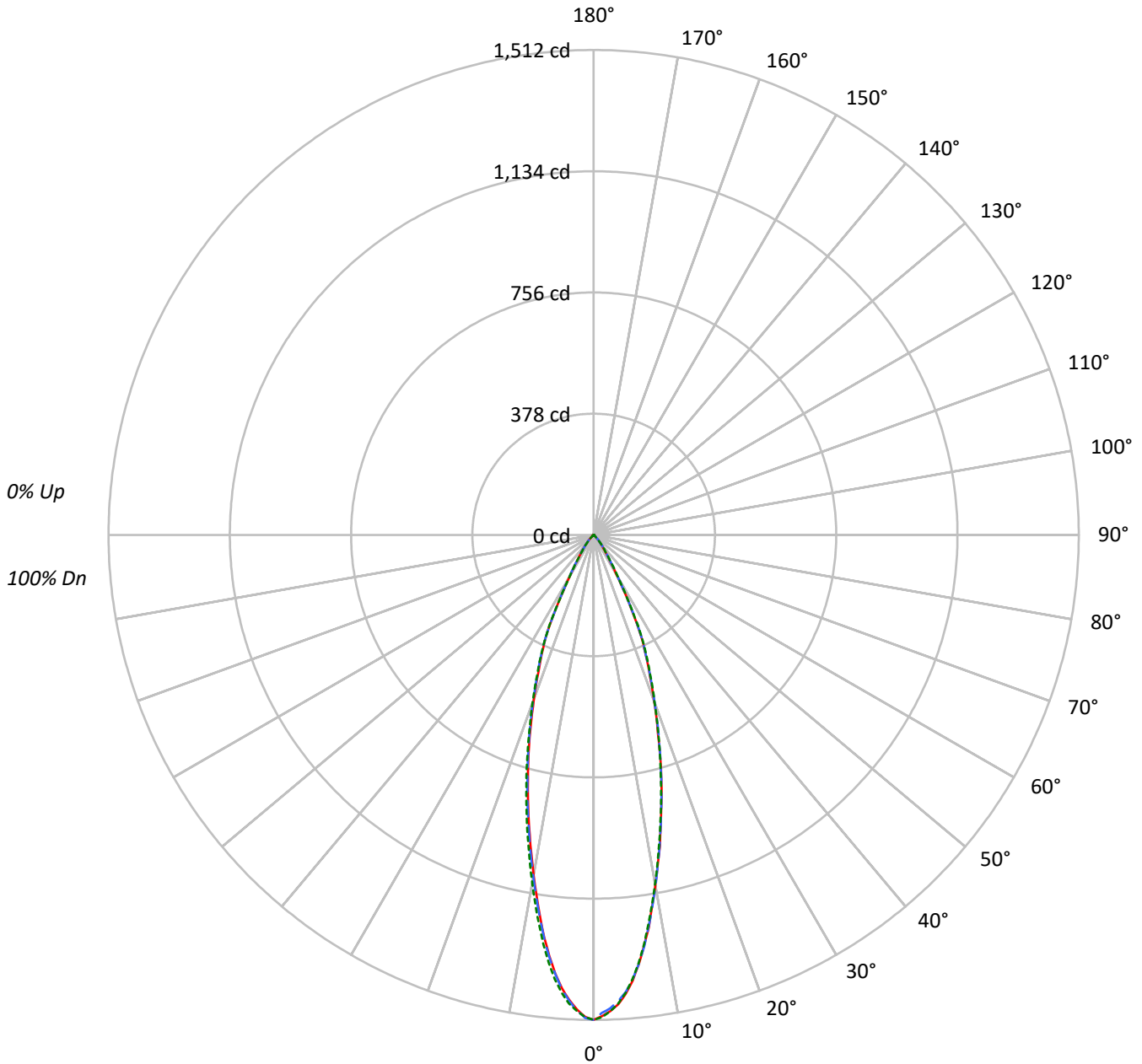
Input Watts (W): 13.6
Input Voltage (V): 120.0
Input Current (A_{in}): 0.115
Voltage Rise (V): NR
Power Factor: 0.9976
Total Harmonic Distortion (THDi): 16.4%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 24 HR
Ambient Temperature (°C): 24.4
Test Distance: 25 FT



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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	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	94	92	91						91													
3	106	100	96	93	104	99	95	92	96	93	91	94	91	89	92	90	88	86						86													
4	101	95	91	87	100	94	90	87	92	88	86	90	87	85	88	86	84	82						82													
5	98	91	86	82	96	90	85	82	88	84	81	87	83	81	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	90	83	78	74	89	82	78	74	81	77	74	80	76	74	79	76	73	72						72													
8	87	79	75	71	86	79	74	71	78	74	71	77	73	70	76	73	70	69						69													
9	84	76	71	68	83	76	71	68	75	71	68	74	70	68	73	70	67	66						66													
10	81	73	69	65	80	73	68	65	72	68	65	72	68	65	71	67	65	64						64													

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	82888	82888	82888
5°	76766	76491	75501
10°	61678	61399	59952
15°	46368	46028	44949
20°	32028	32436	31736
25°	21413	21775	21473
30°	8925	9558	9558
35°	4082	4417	4551
40°	2004	2290	2433
45°	775	930	1085
50°	256	256	426
55°	287	191	287
60°	329	219	219
65°	389	130	130
70°	321	160	160
75°	212	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.8	21.9
10°-20°	222.4	39.6
20°-30°	155.3	27.7
30°-40°	45.4	8.1
40°-50°	10.5	1.9
50°-60°	2.4	0.4
60°-70°	1.5	0.3
70°-80°	0.5	0.1
80°-90°	0.0	0.0
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°	500.5	89.2
0°-40°	545.9	97.3
0°-60°	558.8	99.6
0°-90°	560.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	560.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1512	1512	1512	1512	1512	
5°	1395	1391	1390	1374	1372	124
15°	817	816	811	799	792	224
25°	354	356	360	358	355	153
35°	61	62	66	68	68	42
45°	10	10	12	14	14	9
55°	3	2	2	3	3	3
65°	3	2	1	1	1	3
75°	1	1	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1512	1512	1512	1512	1512	1512	1512	1512	1512
1°	1500	1494	1490	1505	1504	1510	1506	1514	1503
2°	1486	1480	1477	1488	1486	1490	1484	1491	1481
3°	1465	1460	1456	1465	1463	1464	1455	1462	1452
4°	1435	1431	1429	1434	1431	1430	1420	1424	1417
5°	1395	1392	1391	1393	1390	1388	1374	1379	1372
6°	1345	1345	1345	1344	1342	1337	1324	1328	1320
7°	1290	1291	1292	1296	1286	1281	1267	1271	1264
8°	1235	1231	1233	1235	1226	1220	1206	1210	1202
9°	1168	1170	1171	1173	1164	1159	1144	1147	1139
10°	1108	1108	1110	1110	1103	1097	1084	1084	1077
11°	1046	1047	1048	1049	1042	1036	1023	1024	1016
12°	992	987	988	988	982	977	964	965	958
13°	928	928	929	928	924	920	908	907	901
14°	873	872	872	871	867	864	854	853	846
15°	817	815	816	814	811	810	799	797	792
16°	761	759	759	759	757	756	746	744	739
17°	704	705	706	705	703	704	695	692	688
18°	648	653	654	653	652	654	645	643	638
19°	602	602	604	602	603	605	597	594	589
20°	549	553	555	554	556	559	552	549	544
21°	505	507	509	508	512	515	508	505	500
22°	464	464	466	467	471	475	469	465	460
23°	425	424	427	428	433	436	431	427	422
24°	389	388	391	392	396	400	395	392	388
25°	354	354	356	356	360	364	358	357	355
26°	306	307	311	316	315	317	311	311	309
27°	255	259	263	268	266	269	264	264	262
28°	216	213	218	222	220	224	219	219	217
29°	175	176	180	183	183	186	183	182	181
30°	141	144	148	151	151	154	152	152	151
32.5°	88	91	93	96	97	100	99	99	98
35°	61	61	62	64	66	68	68	68	68
37.5°	41	42	43	45	46	47	49	49	48
40°	28	29	29	31	32	33	34	34	34
42.5°	18	19	19	20	21	22	23	23	23
45°	10	10	10	11	12	13	14	14	14
47.5°	5	4	4	4	5	6	7	7	7
50°	3	3	3	3	3	4	4	5	5
52.5°	3	3	2	2	3	3	4	4	4
55°	3	3	2	2	2	3	3	3	3
57.5°	3	3	2	2	2	2	3	2	3
60°	3	3	2	2	2	2	2	2	2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	2	2	2	1	1	1	1	1	1
70°	2	2	1	1	1	1	1	1	1
72.5°	2	2	1	1	0	0	0	0	1
75°	1	1	1	0	0	0	0	0	0
77.5°	1	1	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0



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







62.5°	3	3	2	1	1	1	2	2	2
65°	3	2	2	1	1	1	1	1	1



(END OF REPORT)