

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: P189748

Luminaire Tested: **LDSQ6A15D010TE ESQ6A15930D2W 6LSQ0LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P189748
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQ6A15D010TE ESQ6A15930D2W 6LSQ0LI
Description: 6" SQUARE D2W Dimmed to 3000K, with specular clear trim
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1549.1 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.93 / 0.96
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

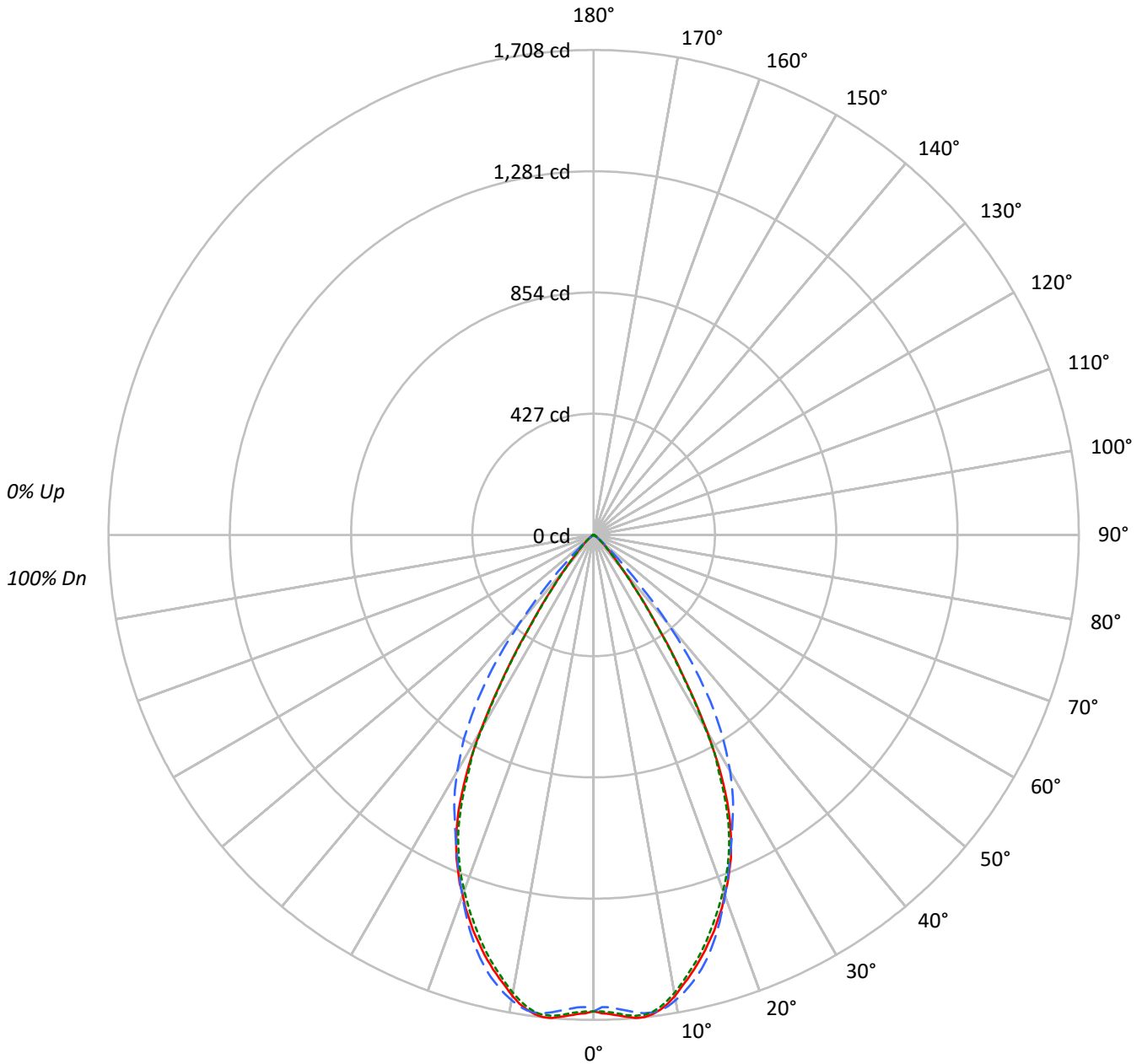
Input Watts (W): 21.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P189748

CATALOG NUMBER: LDSQ6A15D010TE ESQ6A15930D2W 6LSQ0LI

Luminous Intensity Polar Plot





TEST NUMBER: P189748

CATALOG NUMBER: LDSQ6A15D010TE ESQ6A15930D2W 6LSQ0LI

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	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94																			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	91	89	87																			
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81																			
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76																			
5	93	84	78	74	91	83	78	74	81	77	73	80	76	73	78	75	72	70																			
6	88	79	73	69	86	78	73	69	77	72	68	75	71	68	74	70	67	66																			
7	84	74	68	64	82	74	68	64	72	67	64	71	67	63	70	66	63	62																			
8	79	70	64	60	78	69	64	60	68	63	60	67	63	59	66	62	59	58																			
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54																			
10	72	62	57	53	71	62	57	53	61	56	53	60	56	52	60	55	52	51																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	72247	72247	72247
5°	73820	72956	73474
10°	72050	72750	71613
15°	67530	68823	66862
20°	61764	61947	61077
25°	54158	54775	53350
30°	39624	47728	38978
35°	20446	37634	19868
40°	8599	22763	8487
45°	4019	8220	4019
50°	2009	2344	2076
55°	1126	901	1051
60°	689	603	689
65°	408	408	408
70°	252	252	252
75°	166	166	166
80°	248	248	0
85°	0	0	0



TEST NUMBER: P189748

CATALOG NUMBER: LDSQ6A15D010TE ESQ6A15930D2W 6LSQ0LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.0	10.4
10°-20°	428.1	27.6
20°-30°	526.2	34.0
30°-40°	331.6	21.4
40°-50°	81.1	5.2
50°-60°	15.0	1.0
60°-70°	4.5	0.3
70°-80°	1.5	0.1
80°-90°	0.1	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°	1115.4	72.0
0°-40°	1447.0	93.4
0°-60°	1543.1	99.6
0°-90°	1549.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1549.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1678	1678	1678	1678	1678	
5°	1708	1707	1688	1696	1700	161
15°	1515	1551	1544	1538	1500	423
25°	1140	1194	1153	1184	1123	509
35°	389	507	716	498	378	258
45°	66	79	135	78	66	57
55°	15	16	12	16	14	15
65°	4	5	4	4	4	4
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P189748

CATALOG NUMBER: LDSQ6A15D010TE ESQ6A15930D2W 6LSQ0LI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1678	1678	1678	1678	1678
1°	1685	1684	1663	1673	1679
2°	1689	1687	1665	1676	1682
3°	1695	1693	1672	1682	1688
4°	1702	1700	1680	1690	1696
5°	1708	1707	1688	1696	1700
6°	1708	1710	1694	1699	1700
7°	1701	1707	1695	1696	1693
8°	1688	1699	1691	1687	1680
9°	1671	1684	1680	1672	1660
10°	1648	1667	1664	1654	1638
11°	1622	1647	1646	1633	1612
12°	1597	1625	1624	1611	1585
13°	1571	1602	1601	1589	1558
14°	1544	1578	1574	1565	1530
15°	1515	1551	1544	1538	1500
16°	1484	1522	1510	1509	1468
17°	1455	1490	1473	1478	1435
18°	1420	1457	1434	1446	1402
19°	1388	1423	1393	1412	1368
20°	1348	1388	1352	1378	1333
21°	1315	1353	1311	1341	1297
22°	1275	1318	1270	1305	1259
23°	1237	1279	1230	1267	1218
24°	1189	1238	1191	1227	1173
25°	1140	1194	1153	1184	1123
26°	1086	1146	1116	1136	1066
27°	1023	1091	1081	1082	1002
28°	955	1032	1044	1023	932
29°	878	966	1003	957	877
30°	797	896	960	886	784
32.5°	582	705	847	694	573
35°	389	507	716	498	378
37.5°	247	334	567	327	244
40°	153	208	405	200	151
42.5°	98	127	249	122	96
45°	66	79	135	78	66
47.5°	45	52	68	51	45
50°	30	35	35	35	31
52.5°	21	23	20	24	20
55°	15	16	12	16	14
57.5°	11	11	9	11	11
60°	8	8	7	8	8



TEST NUMBER: P189748

CATALOG NUMBER: LDSQ6A15D010TE ESQ6A15930D2W 6LSQ0LI

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	3	3	3	3	3
70°	2	3	2	3	2
72.5°	2	2	2	2	2
75°	1	1	1	1	1
77.5°	1	1	1	1	1
80°	1	1	1	1	0
82.5°	0	0	0	0	0
85°	0	0	0	0	0
87.5°	0	0	0	0	0
90°	0	0	0	0	0



Report Generated By E9808895 / USPTCWHP6082093





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







62.5°	6	6	5	6	6
65°	4	5	4	4	4



(END OF REPORT)