

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: P189750

Luminaire Tested: **LDSQ6A20D010TE ESQ6A20930D2W 6LSQ0LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P189750  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27698)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDSQ6A20D010TE ESQ6A20930D2W 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: 1818.7 lumens  
Efficiency: N/A  
Efficacy: 55.8 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.95 / 0.97  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

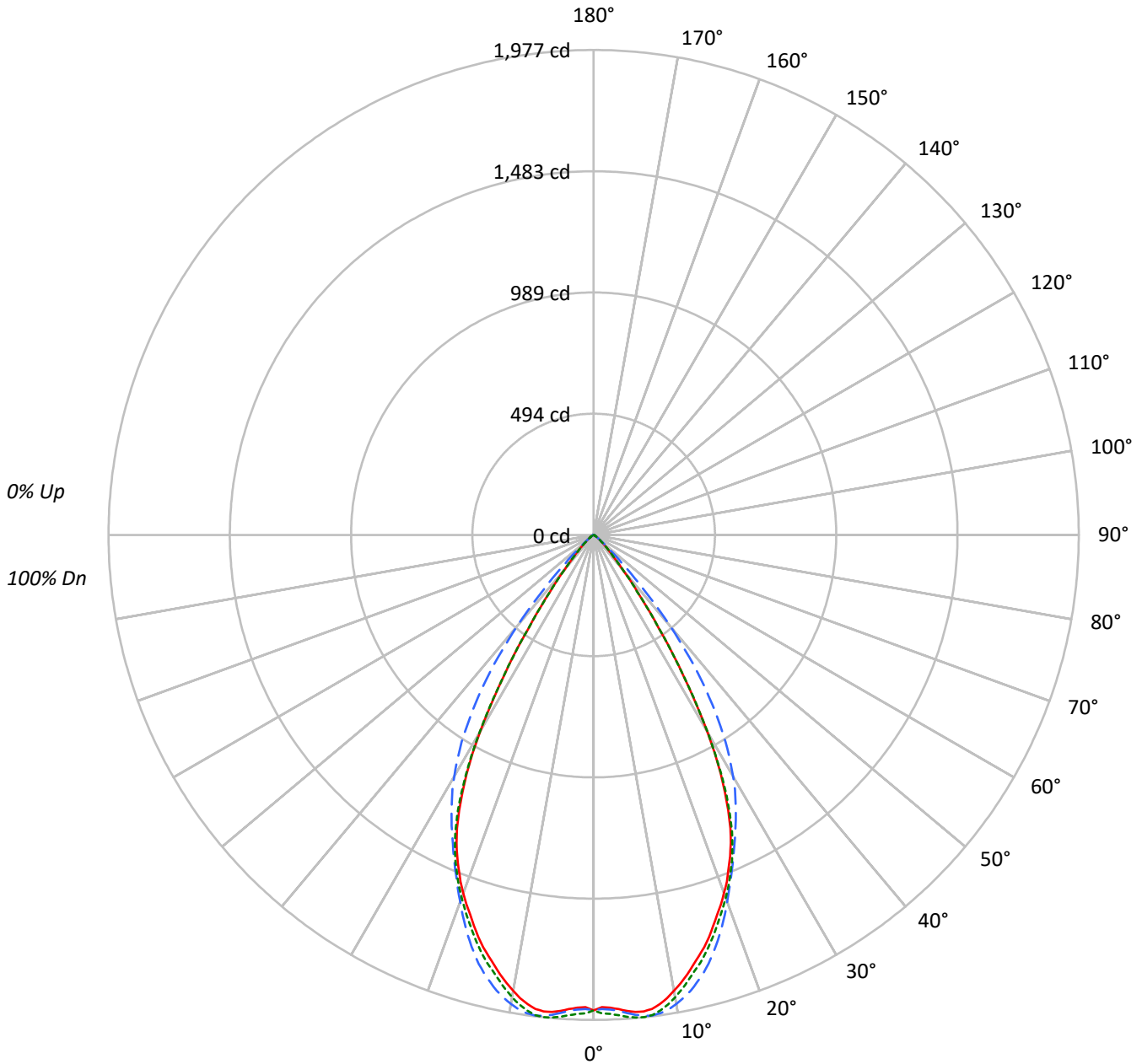
Input Watts (W): 32.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	83442	83442	83442
5°	84366	84884	85360
10°	82499	84904	83680
15°	77560	80680	78629
20°	71157	72898	72073
25°	62661	64704	63326
30°	45988	56528	46187
35°	24073	44309	24126
40°	10229	27147	10117
45°	4749	9925	4749
50°	2478	2813	2478
55°	1276	1126	1276
60°	775	689	861
65°	509	509	509
70°	378	378	378
75°	166	166	166
80°	248	248	248
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.4	10.2
10°-20°	498.4	27.4
20°-30°	616.9	33.9
30°-40°	394.0	21.7
40°-50°	97.8	5.4
50°-60°	18.0	1.0
60°-70°	5.3	0.3
70°-80°	1.6	0.1
80°-90°	0.3	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°	1301.7	71.6
0°-40°	1695.6	93.2
0°-60°	1811.4	99.6
0°-90°	1818.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1818.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1938	1938	1938	1938	1938	
5°	1952	1978	1964	1954	1975	184
15°	1740	1803	1810	1782	1764	486
25°	1319	1396	1362	1383	1333	588
35°	458	602	843	596	459	302
45°	78	96	163	94	78	68
55°	17	19	15	18	17	17
65°	5	5	5	5	5	5
75°	1	2	1	1	1	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1938	1938	1938	1938	1938
1°	1925	1950	1933	1926	1951
2°	1929	1953	1936	1930	1954
3°	1936	1961	1943	1937	1961
4°	1945	1970	1954	1946	1969
5°	1952	1978	1964	1954	1975
6°	1953	1982	1971	1958	1977
7°	1947	1979	1974	1955	1972
8°	1932	1969	1968	1945	1957
9°	1912	1954	1958	1931	1938
10°	1887	1934	1942	1912	1914
11°	1861	1911	1922	1890	1886
12°	1832	1887	1900	1867	1856
13°	1800	1861	1872	1841	1825
14°	1770	1833	1843	1812	1797
15°	1740	1803	1810	1782	1764
16°	1705	1771	1771	1749	1728
17°	1667	1736	1730	1716	1690
18°	1628	1698	1686	1676	1652
19°	1593	1659	1639	1639	1613
20°	1553	1620	1591	1598	1573
21°	1514	1581	1544	1561	1532
22°	1468	1540	1497	1520	1488
23°	1423	1494	1452	1477	1442
24°	1374	1447	1406	1433	1390
25°	1319	1396	1362	1383	1333
26°	1250	1341	1320	1329	1267
27°	1179	1278	1276	1268	1193
28°	1102	1209	1231	1200	1112
29°	1017	1139	1187	1125	1023
30°	925	1057	1137	1044	929
32.5°	681	842	1001	824	683
35°	458	602	843	596	459
37.5°	292	403	673	396	291
40°	182	251	483	244	180
42.5°	119	155	299	149	116
45°	78	96	163	94	78
47.5°	53	63	82	62	53
50°	37	43	42	41	37
52.5°	24	29	24	28	24
55°	17	19	15	18	17
57.5°	13	14	11	13	13
60°	9	10	8	10	10



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	4	4	3	4	4
70°	3	3	3	3	3
72.5°	2	2	2	2	2
75°	1	2	1	1	1
77.5°	1	1	1	1	1
80°	1	1	1	1	1
82.5°	0	1	1	1	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°	7	7	6	7	7
65°	5	5	5	5	5



(END OF REPORT)