

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: P189738

Luminaire Tested: **LDSQ6A10D010TE ESQ6A10930D2W 6LSQ0H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P189738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27684)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQ6A10D010TE ESQ6A10930D2W 6LSQ0H
Description: 6" SQUARE D2W Dimmed to 3000K, with Haze trim
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 819.4 lumens
Efficiency: N/A
Efficacy: 59.8 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.05 / 1.07
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

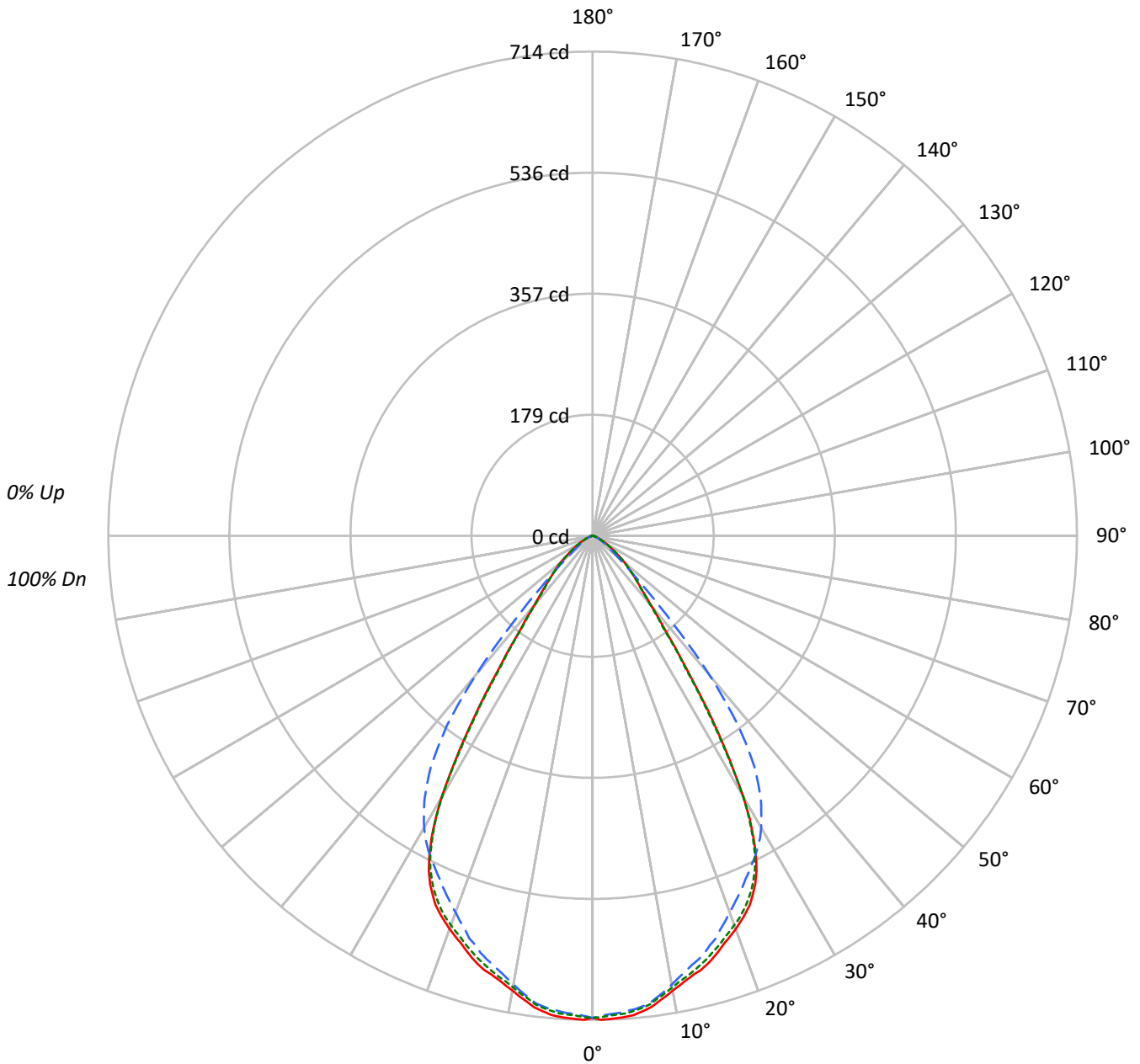
Input Watts (W): 13.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92	92
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84	84	84	84
3	100	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77	77	77	77
4	95	86	80	76	93	85	80	75	83	78	74	81	77	73	79	75	73	71	71	71	71
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65	65	65	65
6	84	75	68	63	83	74	68	63	72	67	63	71	66	62	69	65	62	60	60	60	60
7	80	69	63	58	78	69	63	58	67	62	58	66	61	57	65	61	57	56	56	56	56
8	75	65	58	54	74	64	58	54	63	58	54	62	57	53	61	57	53	52	52	52	52
9	71	61	54	50	70	60	54	50	59	54	50	58	53	50	58	53	49	48	48	48	48
10	68	57	51	47	67	57	51	47	56	50	47	55	50	46	54	50	46	45	45	45	45

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	30613	30613	30613
5°	30643	30297	30384
10°	29773	29380	29555
15°	29152	28394	28840
20°	28270	27079	27995
25°	26936	25939	26651
30°	22124	24709	22074
35°	12930	21865	12615
40°	7475	15063	7307
45°	5419	6515	5358
50°	4153	3081	4086
55°	2852	1877	2777
60°	1981	1378	1894
65°	1223	917	1223
70°	755	755	755
75°	499	499	499
80°	248	496	248
85°	0	494	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.1	8.1
10°-20°	180.2	22.0
20°-30°	251.6	30.7
30°-40°	197.1	24.1
40°-50°	77.7	9.5
50°-60°	31.4	3.8
60°-70°	11.3	1.4
70°-80°	3.3	0.4
80°-90°	0.6	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°	497.9	60.8
0°-40°	694.9	84.8
0°-60°	804.1	98.1
0°-90°	819.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	819.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	711	711	711	711	711	
5°	709	701	701	698	703	67
15°	654	642	637	638	647	184
25°	567	555	546	551	561	254
35°	246	305	416	304	240	162
45°	89	90	107	89	88	70
55°	38	36	25	36	37	35
65°	12	11	9	11	12	13
75°	3	3	3	3	3	3
85°	0	1	1	1	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	711	711	711	711	711
1°	714	707	708	704	710
2°	713	705	706	702	708
3°	712	704	705	701	707
4°	711	703	703	700	706
5°	709	701	701	698	703
6°	705	698	698	694	700
7°	701	693	694	690	696
8°	694	687	687	683	689
9°	688	680	680	677	683
10°	681	673	672	669	676
11°	675	666	664	663	670
12°	669	660	657	657	665
13°	664	654	650	651	659
14°	660	648	644	645	653
15°	654	642	637	638	647
16°	647	634	628	630	640
17°	639	627	621	623	633
18°	631	618	610	614	625
19°	624	609	601	605	618
20°	617	598	591	596	611
21°	609	591	582	588	604
22°	601	583	573	580	595
23°	592	574	564	571	585
24°	580	564	554	561	574
25°	567	555	546	551	561
26°	551	543	537	539	546
27°	531	528	529	525	527
28°	506	511	519	508	503
29°	478	493	509	490	476
30°	445	470	497	468	444
32.5°	345	397	462	399	339
35°	246	305	416	304	240
37.5°	175	216	353	213	171
40°	133	153	268	151	130
42.5°	107	114	174	113	105
45°	89	90	107	89	88
47.5°	74	72	68	72	74
50°	62	59	46	58	61
52.5°	49	47	34	47	48
55°	38	36	25	36	37
57.5°	29	27	20	27	29
60°	23	20	16	20	22



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	8	8	7	8	8
70°	6	6	6	6	6
72.5°	4	4	4	4	4
75°	3	3	3	3	3
77.5°	2	2	2	2	2
80°	1	1	2	1	1
82.5°	1	1	1	1	1
85°	0	1	1	1	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°	17	15	12	15	16
65°	12	11	9	11	12



(END OF REPORT)