

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: P209535

Luminaire Tested: **LDSQA6A10930D2WD010TED2W LARL15SP 6LA1H DIF-20**

Test Date: 11/02/16

Test Information

Test Method: LM-41-14
Report Number: P209535
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29038)
Test Lab: INNOVATION CENTER-P2
Test Date: 11/02/16
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA6A10930D2WD010TED2W LARL15SP 6LA1H DIF-20
Description: 6" SQUARE, 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: 513.4 lumens
Efficiency: N/A
Efficacy: 37.8 lumens/watt
Spacing Criteria (0/90/45): 0.53 / 0.54 / 0.58
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

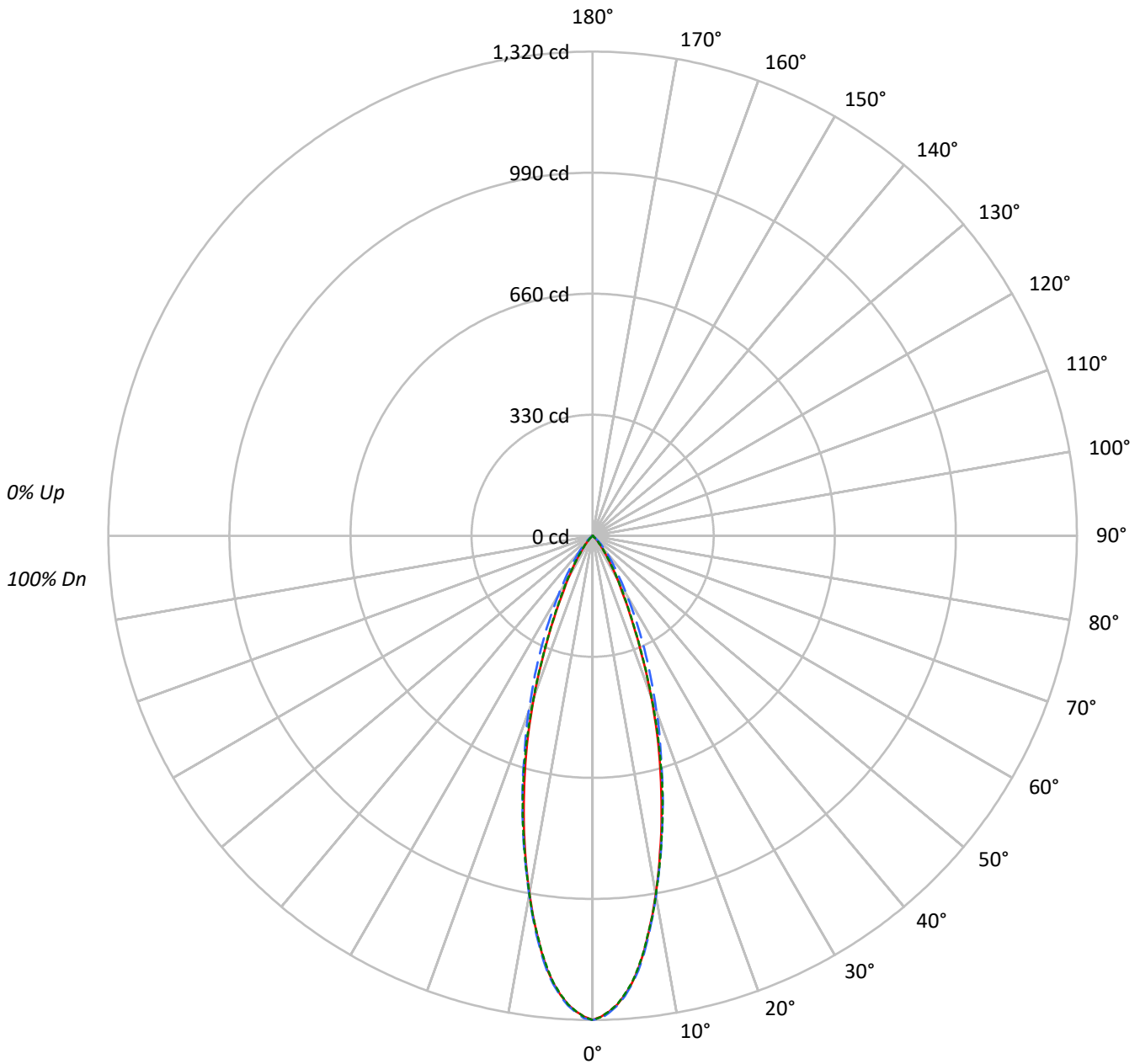
Input Watts (W): 13.6
Input Voltage (V): 120.0
Input Current (A_{in}): 0.115
Voltage Rise (V): NR
Power Factor: 0.9976
Total Harmonic Distortion (THDi): 16.5%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 24 HR
Ambient Temperature (°C): 24.4
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	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	105	100	96	92	103	99	95	92	96	93	90	94	91	89	92	89	87	86					86			
4	101	95	90	87	100	94	89	86	92	88	85	90	87	84	88	85	83	82					82			
5	97	90	85	82	96	89	85	81	88	84	81	86	83	80	85	82	79	78					78			
6	93	86	81	77	92	85	81	77	84	80	77	83	79	76	81	78	76	75					75			
7	90	82	77	74	89	82	77	73	80	76	73	79	76	73	78	75	72	71					71			
8	87	79	74	70	86	78	73	70	77	73	70	76	72	70	75	72	69	68					68			
9	83	75	71	67	83	75	70	67	74	70	67	73	69	67	73	69	66	65					65			
10	81	72	68	64	80	72	67	64	71	67	64	71	67	64	70	66	64	63					63			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	56833	56833	56833
5°	52945	53074	52858
10°	43326	43501	43414
15°	32227	32941	32807
20°	21397	23322	21535
25°	11924	15392	12209
30°	6463	9247	6712
35°	3311	5361	3311
40°	1686	3260	1686
45°	609	1705	548
50°	134	670	67
55°	75	75	75
60°	86	86	86
65°	102	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.4	21.3
10°-20°	200.8	39.1
20°-30°	133.0	25.9
30°-40°	53.8	10.5
40°-50°	14.7	2.9
50°-60°	1.4	0.3
60°-70°	0.4	0.1
70°-80°	0.0	0.0
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°	443.2	86.3
0°-40°	496.9	96.8
0°-60°	513.0	99.9
0°-90°	513.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	513.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1320	1320	1320	1320	1320	
5°	1225	1225	1228	1227	1223	109
15°	723	728	739	737	736	198
25°	251	281	324	284	257	119
35°	63	80	102	79	63	43
45°	10	17	28	16	9	9
55°	1	1	1	1	1	1
65°	1	0	0	0	0	1
75°	0	0	0	0	0	0
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°	1320	1320	1320	1320	1320
1°	1311	1310	1316	1313	1312
2°	1298	1297	1301	1300	1297
3°	1280	1278	1283	1281	1279
4°	1255	1254	1258	1257	1253
5°	1225	1225	1228	1227	1223
6°	1188	1188	1192	1190	1185
7°	1144	1145	1148	1147	1141
8°	1093	1096	1099	1097	1092
9°	1044	1042	1048	1046	1046
10°	991	989	995	993	993
11°	938	937	942	937	940
12°	883	884	891	885	889
13°	832	832	839	837	838
14°	776	780	789	787	787
15°	723	728	739	737	736
16°	671	677	690	688	684
17°	619	627	639	638	630
18°	570	579	596	588	576
19°	516	532	553	538	522
20°	467	485	509	489	470
21°	418	440	467	442	420
22°	369	397	429	399	374
23°	326	355	392	357	331
24°	287	317	357	319	292
25°	251	281	324	284	257
26°	220	249	293	251	226
27°	192	217	263	221	198
28°	167	191	234	194	174
29°	149	169	208	172	153
30°	130	149	186	153	135
32.5°	93	111	138	113	94
35°	63	80	102	79	63
37.5°	44	56	77	55	44
40°	30	40	58	39	30
42.5°	19	28	41	27	19
45°	10	17	28	16	9
47.5°	3	8	18	7	2
50°	2	2	10	2	1
52.5°	2	1	4	1	1
55°	1	1	1	1	1
57.5°	1	1	1	1	1
60°	1	1	1	1	1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	0	0	0	0	0
70°	0	0	0	0	0
72.5°	0	0	0	0	0
75°	0	0	0	0	0
77.5°	0	0	0	0	0
80°	0	0	0	0	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°	1	1	1	1	1
65°	1	0	0	0	0



(END OF REPORT)