

VISUAL COMFORT GROUP TEST REPORT

SCOPE OF WORK

Electrical and Photometric tests as required to the IESNA test standard.

MODEL NUMBER

700BLT38x-LED930

REPORT NUMBER

103643585CHI-033

ISSUE DATE

February 13, 2019

REVISION DATE

None

DOCUMENT CONTROL NUMBER

TBD

© 2017 INTERTEK



REPORT NO.: 103643585CHI-033

REPORT DATE: February 13, 2019

TEST REPORT

TEST OF ONE CHANDELIER LUMINAIRE

MODEL NO. 700BLT38X-LED930
LED MODEL NO. SEOUL STW9A12D-E1
DRIVER MODEL NO. (2) LTF DA30W700C2542-3001

RENDERED TO:

VISUAL COMFORT GROUP
7400 LINDER AVE.
SKOKIE, IL 60077

AUTHORIZATION

The testing performed was authorized by signed quote number Qu-00912313-2.

STANDARDS USED

IESNA LM-79 - 2008: Electrical and Photometric Measurements of Solid State Lighting

DESCRIPTION OF SAMPLE

The client submitted one production sample of model number 700BLT38x-LED930. The sample was received by Intertek on January 24, 2019 in undamaged condition and one sample was tested as received. The sample designation was AH01242019034321-033.

DATE OF TESTS

February 12, 2019.

REPORT NO.: 103643585CHI-033

REPORT DATE: February 13, 2019

TEST REPORT

SUMMARY

MODEL NO:	700BLT38x-LED930
DESCRIPTION:	Chandelier Luminaire

CRITERIA	RESULTS
Lumen Output (lumens)	3974.3
Input Power (W) @ 120 (VAC)	50.11
Lumen Efficacy (lm/W)	79.3
Input Power Factor @ 120 (VAC)	0.999

EQUIPMENT LIST

EQUIPMENT USED	MODEL NO.	CONTROL NO.	LAST CAL DATE	CAL DUE DATE
Yokogawa Power Meter	WT210	146919	7/9/2018	7/9/2019
Omega Thermometer	DPI8-C24	146920	10/4/2018	10/4/2019
LSI High Speed Mirror Goniometer	6440T	146928	VBV	VBV
Newport Thermohygrometer	iServer	146379	4/16/2018	4/16/2019
Pacific, AC power supply	118-ACX	CHI0358	VBV	VBV

REPORT NO.: 103643585CHI-033

REPORT DATE: February 13, 2019

TEST REPORT

TEST METHODS

SEASONING IN SAMPLE ORIENTATION - LED PRODUCTS

No seasoning was performed in accordance with IESNA LM-79.

PHOTOMETRIC AND ELECTRICAL MEASUREMENTS - DISTRIBUTION METHOD

A Type C Mirror Goniometer was used to measure the intensity (candelas) at each angle of distribution for the SSL sample.

Ambient temperature was measured equal to the height of the sample mounted on the goniometer equipment. The SSL sample was operated on the client provided driver at rated input volts in its designated orientation. The SSL sample was allowed to stabilize for at least thirty minutes before measurements were made. Stabilization procedures to LM-79 were followed. Electrical measurements including voltage, current, and power were measured using a power analyzer.

REPORT NO.: 103643585CHI-033

REPORT DATE: February 13, 2019

TEST REPORT

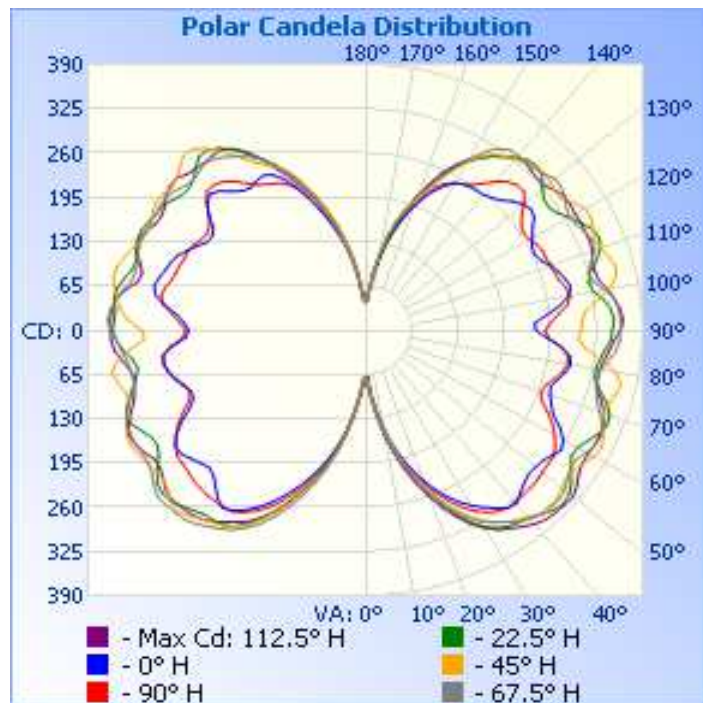
RESULTS OF TESTS

PHOTOMETRIC AND ELECTRICAL MEASUREMENTS - DISTRIBUTION METHOD (25°C +/- 1°C)

INTERTEK CONTROL NO.	BASE POSITION	INPUT VOLTAGE (VAC)	INPUT CURRENT (mA)	INPUT POWER (W)	INPUT POWER FACTOR	LIGHT OUTPUT (lm)	LUMEN EFFICACY (lm/W)
AH01242019034321-033	Base Up	120.1	417.9	50.11	0.999	3974.3	79.3

INTENSITY SUMMARY - CANDELAS

Angle	0	22.5	45	67.5	90
0	70	70	70	70	70
5	96	104	103	98	105
10	145	156	151	152	155
15	192	205	199	203	198
20	233	253	246	248	238
25	269	297	288	290	276
30	297	334	324	324	306
35	319	351	344	344	325
40	331	359	357	361	328
45	316	374	370	366	328
50	313	375	360	366	325
55	321	353	358	352	323
60	321	345	372	359	307
65	291	361	370	367	283
70	277	366	357	351	263
75	280	341	365	336	276
80	293	329	358	336	289
85	277	338	311	354	276
90	240	347	305	358	253
95	256	347	311	358	273
100	291	326	348	342	292
105	291	327	364	325	283
110	277	352	352	343	278
115	263	352	353	342	275
120	271	331	357	332	266
125	290	315	337	343	268
130	288	325	340	347	292
135	270	341	339	336	302
140	259	331	329	335	285
145	257	312	316	325	260
150	249	286	286	288	249
155	225	250	242	244	231
160	189	205	202	206	194
165	148	155	164	165	150
170	106	99	114	113	108
175	61	59	58	54	61
180	42	42	42	42	42



REPORT NO.: 103643585CHI-033

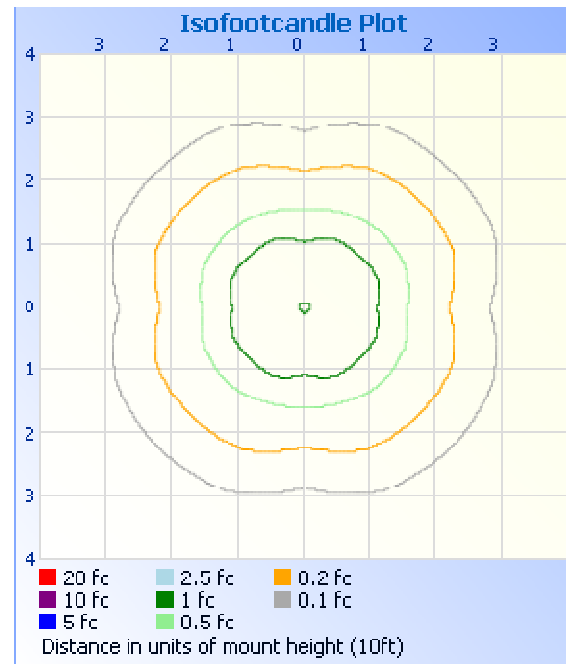
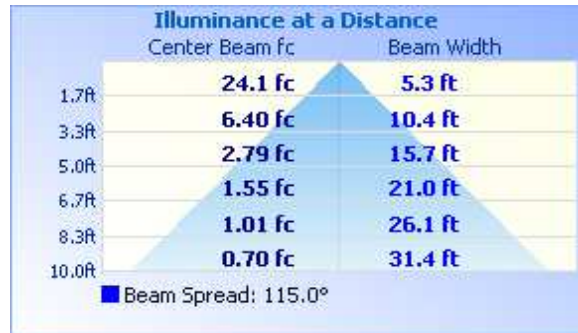
REPORT DATE: February 13, 2019

TEST REPORT

RESULTS OF TESTS

PHOTOMETRIC AND ELECTRICAL MEASUREMENTS - DISTRIBUTION METHOD (25°C +/- 1°C)

MOUNTING HEIGHT: 10ft	
ILLUMINANCE - CONE OF LIGHT	ISOILLUMINATION PLOT



ZONAL LUMEN SUMMARY AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	203.9	5.1
0-40	418.2	10.5
0-60	1008.2	25.4
60-90	1038.7	26.1
70-100	1055.0	26.5
90-120	1029.4	25.9
0-90	2046.9	51.5
90-180	1927.4	48.5
0-180	3974.3	100.0

ZONE	LUMENS	% LUMINAIRE
0-10	11.4	0.3
10-20	58.5	1.5
20-30	134.0	3.4
30-40	214.4	5.4
40-50	276.5	7.0
50-60	313.5	7.9
60-70	339.4	8.5
70-80	348.4	8.8
80-90	350.8	8.8
90-100	355.7	9.0
100-110	349.1	8.8
110-120	324.6	8.2
120-130	288.2	7.3
130-140	252.6	6.4
140-150	189.9	4.8
150-160	113.7	2.9
160-170	46.1	1.2
170-180	7.5	0.2

REPORT NO.: 103643585CHI-033
REPORT DATE: February 13, 2019

TEST REPORT

PICTURES



CONCLUSION

The results tabulated in this report are representative of the actual test samples submitted for this report only. The data is provided to the client for further evaluation. Compliance to the referenced specification requirements was not determined in this report.

In Charge Of Tests:

Tess Gallagher

Tess Gallagher
Engineer
Lighting Division

Report Reviewed By:

Tim Quigley

Timothy Quigley
Engineer
Lighting Division

Attachments: IES File

REVISION HISTORY

JOB NUMBER	DATE OF REVISION	PROJECT HANDLER	REVIEWED BY	REVISION NOTE
None				