

# VISUAL COMFORT GROUP TEST REPORT

## SCOPE OF WORK

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

**MODEL NUMBER**  
700LSBLTGM-LED930

**REPORT NUMBER**  
103643585CHI-034

**ISSUE DATE**  
February 13, 2019

**REVISION DATE**  
None

**DOCUMENT CONTROL NUMBER**  
TBD  
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**REPORT NO.: 103643585CHI-034**

**REPORT DATE: February 13, 2019**

**TEST REPORT**

TEST OF ONE LINEAR LED FIXTURE

MODEL NO. 700LSBLTGM-LED930  
LED MODEL NO. LUMINUS MP-3030-1100-30-90  
DRIVER MODEL NO. EPT D1200RC3

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 700LSBLTGM-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 AH01242019034321-034.

**DATE OF TESTS**

February 12, 2019.

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**REPORT DATE: February 13, 2019**

**TEST REPORT**

**SUMMARY**

<b>MODEL NO:</b>	700LSBLTGM-LED930
<b>DESCRIPTION:</b>	Linear LED fixture

CRITERIA	RESULTS
Lumen Output (lumens)	2968.8
Input Power (W) @ 120 (VAC)	42.35
Lumen Efficacy (lm/W)	70.1
Input Power Factor @ 120 (VAC)	0.993

**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	VBU	VBU
Newport Thermohygrometer	iServer	146379	4/16/2018	4/16/2019
Pacific, AC power supply	118-ACX	CHI0358	VBU	VBU

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**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.

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TEST REPORT

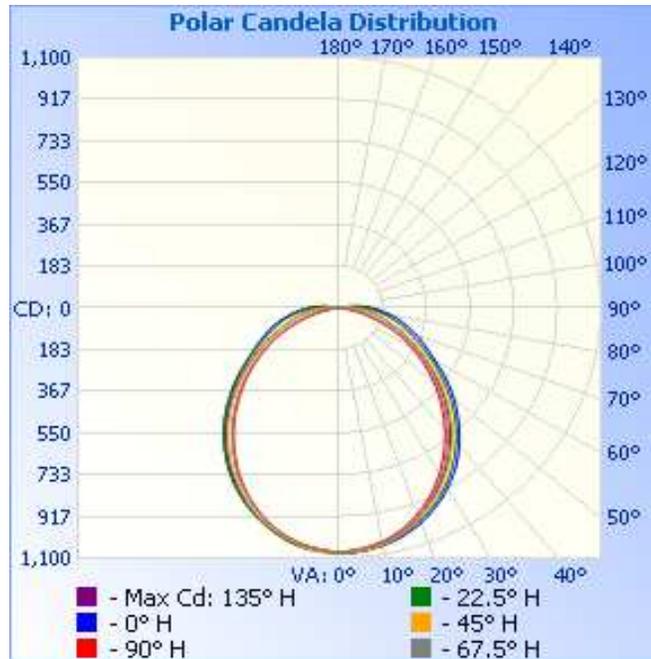
RESULTS OF TESTS

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)
AH01242019034321-034	Base Up	120.1	355.1	42.35	0.993	2968.8	70.1

INTENSITY SUMMARY - CANDELAS

Angle	0	22.5	45	67.5	90
0	1074	1074	1074	1074	1074
5	1074	1071	1072	1065	1062
10	1060	1055	1058	1045	1042
15	1038	1029	1025	1014	1009
20	1005	994	983	972	964
25	963	950	935	919	908
30	912	897	878	857	843
35	854	835	813	786	770
40	785	766	742	709	692
45	710	689	661	629	610
50	632	609	579	543	526
55	551	526	492	458	442
60	468	444	407	372	358
65	401	371	327	287	276
70	345	313	259	209	194
75	290	260	204	142	116
80	237	210	157	89	49
85	186	160	111	50	11
90	136	113	69	22	2
95	88	68	36	5	1
100	44	32	14	1	1
105	12	9	2	1	1



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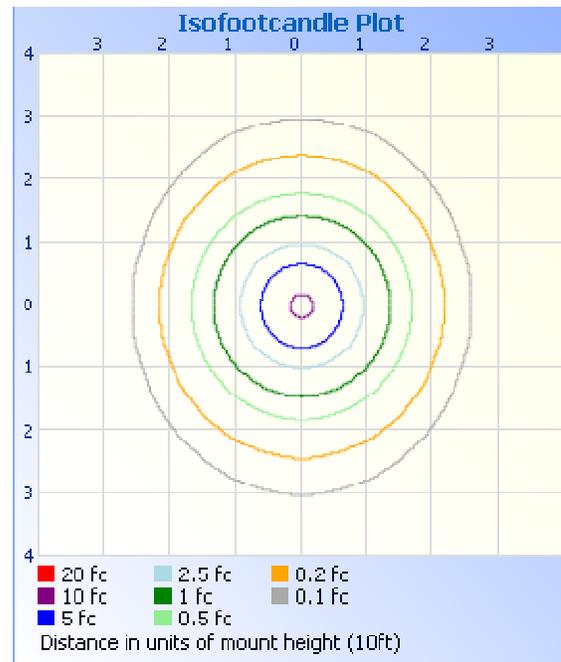
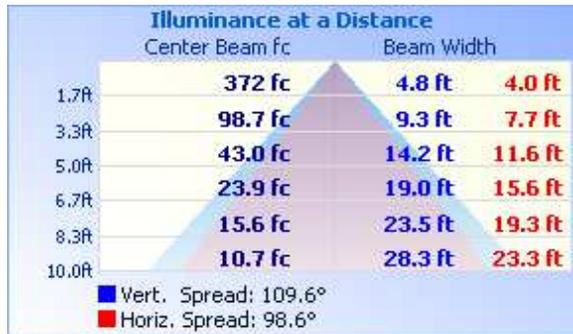
**TEST REPORT**

**RESULTS OF TESTS**

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

**MOUNTING HEIGHT: 10ft**

ILLUMINANCE - CONE OF LIGHT	ISOILLUMINATION PLOT
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**ZONAL LUMEN SUMMARY AND PERCENTAGES**

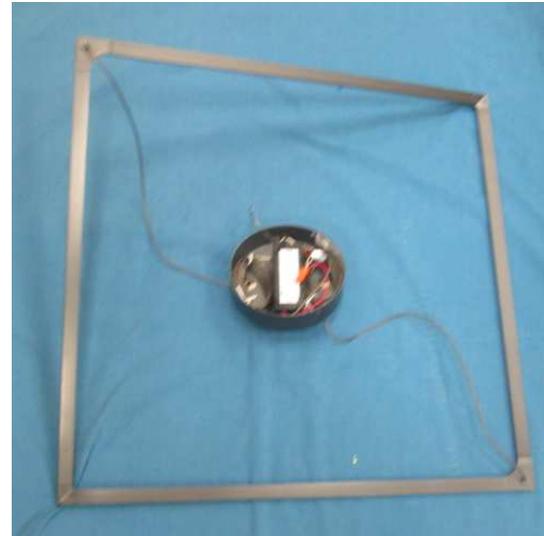
ZONE	LUMENS	% LUMINAIRE
0-30	817.5	27.5
0-40	1321.1	44.5
0-60	2261.6	76.2
60-90	656.6	22.1
70-100	374.0	12.6
90-120	50.7	1.7
0-90	2918.1	98.3
90-180	50.7	1.7
0-180	2968.8	100.0

ZONE	LUMENS	% LUMINAIRE
0-10	101.4	3.4
10-20	287.7	9.7
20-30	428.4	14.4
30-40	503.6	17.0
40-50	504.1	17.0
50-60	436.4	14.7
60-70	326.5	11.0
70-80	214.0	7.2
80-90	116.1	3.9
90-100	44.0	1.5
100-110	6.7	0.2

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**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				