

VISUAL COMFORT GROUP TEST REPORT

SCOPE OF WORK

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

MODEL NUMBER
700LSSPCTB-LED930

REPORT NUMBER
103643585CHI-035

ISSUE DATE
February 14, 2019

REVISION DATE
None

DOCUMENT CONTROL NUMBER
TBD
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REPORT DATE: February 14, 2019

TEST REPORT

TEST OF ONE LINEAR LED FIXTURE

MODEL NO. 700LSSPCTB-LED930
LED MODEL NO. LUMINUS MP-3030-1100-30-90
DRIVER MODEL NO. EPT D1400RC3

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 700LSSPCTB-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 AH01242019034321-035.

DATE OF TESTS

February 13, 2019.

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SUMMARY

MODEL NO:	700LSSPCTB-LED930
DESCRIPTION:	Linear LED fixture

CRITERIA	RESULTS
Lumen Output (lumens)	3011.2
Input Power (W) @ 120 (VAC)	55.99
Lumen Efficacy (lm/W)	53.8
Input Power Factor @ 120 (VAC)	0.988

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 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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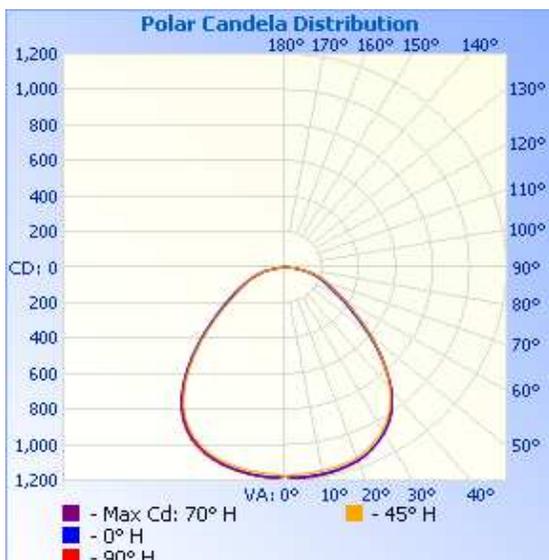
RESULTS OF TESTS

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)
AH01242019034321-035	Base Up	120.1	471.8	55.99	0.988	3011.2	53.8

INTENSITY SUMMARY - CANDELAS

Angle	0	45	90	135	180	225	270	315	360
0	1177	1177	1177	1177	1177	1177	1177	1177	1177
5	1184	1167	1185	1180	1181	1165	1186	1177	1184
10	1179	1163	1182	1175	1175	1159	1180	1169	1179
15	1170	1154	1174	1168	1163	1147	1169	1156	1170
20	1154	1140	1160	1154	1144	1128	1150	1138	1154
25	1125	1104	1127	1128	1110	1097	1118	1106	1125
30	1079	1057	1074	1082	1056	1043	1064	1054	1079
35	1006	987	1000	1007	972	958	978	975	1006
40	896	885	894	897	853	838	858	858	896
45	749	755	755	758	710	692	710	717	749
50	597	619	615	608	563	540	560	563	597
55	452	485	480	454	438	410	424	431	452
60	348	377	375	327	341	310	315	334	348
65	264	296	295	253	269	254	245	268	264
70	214	234	232	221	197	208	207	210	214
75	160	177	178	165	140	153	158	144	160
80	108	102	100	111	94	90	89	94	108
85	47	47	48	38	25	19	21	29	47
90	2	3	2	1	0	1	1	1	2



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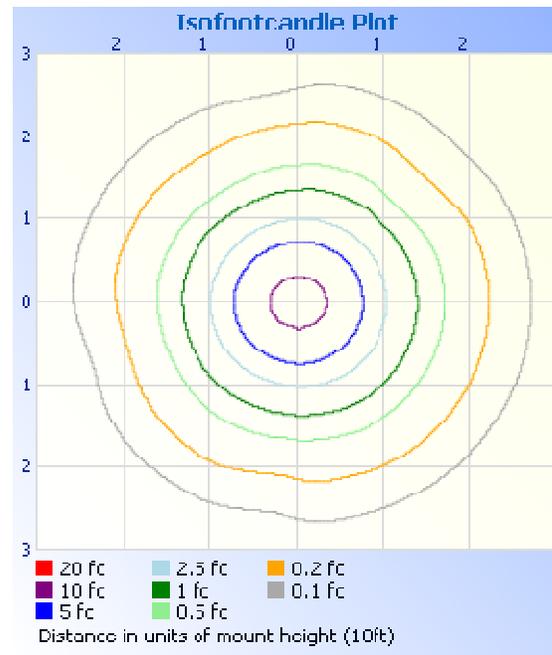
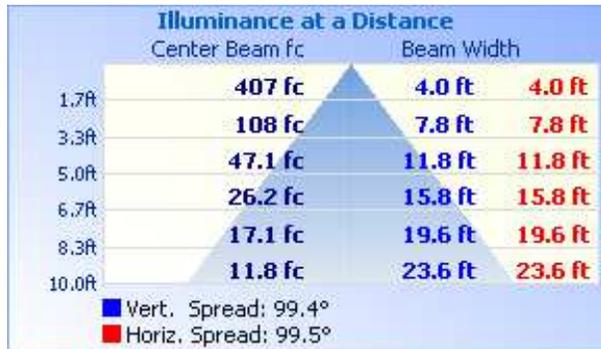
TEST REPORT

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

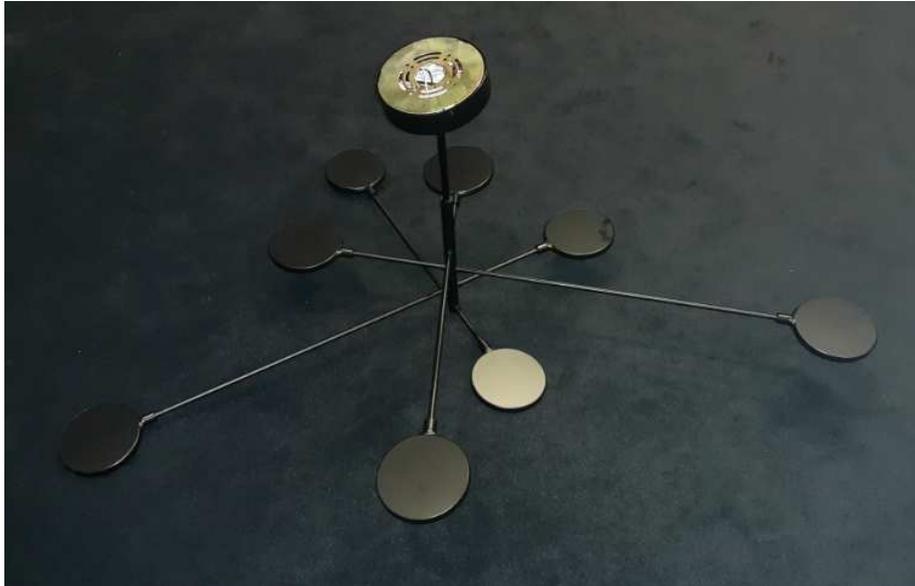
ZONE	LUMENS	% LUMINAIRE
0-30	952.7	31.6
0-40	1564.3	52.0
0-60	2530.7	84.0
60-90	480.3	15.9
70-100	210.9	7.0
90-120	0.2	0.0
0-90	3011.0	100.0
90-180	0.2	0.0
0-180	3011.2	100.0

ZONE	LUMENS	% LUMINAIRE
0-10	112.0	3.7
10-20	328.3	10.9
20-30	512.4	17.0
30-40	611.6	20.3
40-50	561.6	18.7
50-60	404.8	13.4
60-70	269.6	9.0
70-80	167.7	5.6
80-90	43.1	1.4
90-100	0.2	0.0

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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				