LTL LUMINAIRE TESTING LABORATORY, INC.

SUSTAINING MEMBER of the IESNA

905 Harrison Street · Allentown, PA 18103 · 610-770-1044 · Fax 610-770-8912 · www.LuminaireTesting.com

Photometric Indoor Test Report

Relevant Standards
IES LM-79-2008
ANSI C82.77

Prepared For
Specialty Lighting Industries, Inc.
Awi Salomon
1306 Doris Avenue
Ocean, NJ 07712

Catalog Number
4017-LEDX-30 DEGREE

LTL Test Number
25704

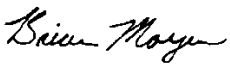
Test Date

2011-09-20

Prepared By

Eric Gaudreau, Technician III

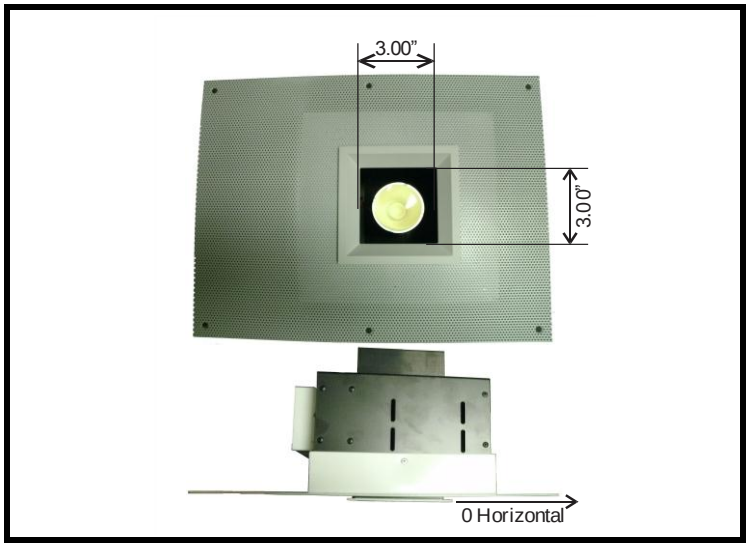
Approved By



Brian Moyer, Engineer

Luminaire Description:	Formed aluminum and steel housing, molded specular plastic reflector, cast white enamel lower trim, no enclosure
Catalog Number:	4017-LEDX-30 DEGREE
Lamp:	One white LED
Mounting:	Recessed
Ballast/Driver:	One Advance "Xitanium" 9137012-13402

Luminaire



Zonal Lumen Summary

Zone (Degrees)	Lumens	% of Lamp	% of Luminaire
0-30	922.3	N/A	95.3%
0-40	967.5	N/A	100.0%
0-60	967.5	N/A	100.0%
0-90	967.5	N/A	100.0%
90-180	0	N/A	0.0%
0-180	967.5	N/A	100.0%

Test Conditions

Test Temperature:	24.5	°C
Voltage:	120.0	VAC
Current:	0.2244	A
Power:	26.64	W
Power Factor:	0.989	
Frequency:	60	Hz

Summary of Results

Total Lumen Output:	967.5 Lumens	Spacing Criterion:	0 Degree:	0.73	90 Degree: 0.73
Luminaire Efficacy:	36.3 Lumens/Watt		180 Degree:	0.73	270 Degree: 0.73
CIE Type:	Direct				

Data was acquired using the calibrated photodetector method of absolute photometry. A spectral mismatch correction factor was employed based on the spectral responsivity of the photodetector and the spectral power distribution of the test subject.

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Candela Tabulation

Horizontal Angle (Degrees)

Vertical Angle (Degrees)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5
0	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992
5	1955	1954	1958	1965	1968	1965	1958	1954	1955	1954	1958	1965	1968	1965	1958	1954
10	1912	1911	1917	1923	1926	1923	1917	1911	1912	1911	1917	1923	1926	1923	1917	1911
15	1763	1762	1765	1769	1770	1769	1765	1762	1763	1762	1765	1769	1770	1769	1765	1762
20	1219	1214	1226	1227	1228	1227	1226	1214	1219	1214	1226	1227	1228	1227	1226	1214
25	522	519	519	518	519	518	519	519	522	519	519	518	519	518	519	519
30	234	232	232	233	235	233	232	232	234	232	232	233	235	233	232	232
35	55	56	55	56	55	56	55	56	55	56	55	56	55	56	55	56
40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Zonal Lumen Tabulation (5 degree zones)

Zone (Degrees)	Lumens	Zone (Degrees)	Lumens	Zone (Degrees)	Lumens	Zone (Degrees)	Lumens
0-5	47.1	45-50	0	90-95	0	135-140	0
5-10	138.9	50-55	0	95-100	0	140-145	0
10-15	219.7	55-60	0	100-105	0	145-150	0
15-20	256.1	60-65	0	105-110	0	150-155	0
20-25	169.8	65-70	0	110-115	0	155-160	0
25-30	90.8	70-75	0	115-120	0	160-165	0
30-35	39.6	75-80	0	120-125	0	165-170	0
35-40	5.6	80-85	0	125-130	0	170-175	0
40-45	0	85-90	0	130-135	0	175-180	0

Utilization of Lumens - Zonal Cavity Method

Effective Floor Cavity Reflectance 20%												
Ceiling Cavity Reflectance	90				80				70			
Wall Reflectance	70	50	30	10	70	50	30	10	70	50	30	10
Room Cavity Ratio (RCR)	** Values are expressed as Lumens delivered to the task surface **											
0	1180	1180	1180	1180	1152	1152	1152	1152	1125	1125	1125	1125
1	1133	1108	1086	1066	1109	1087	1067	1049	1086	1066	1048	1032
2	1089	1046	1011	982	1068	1029	998	971	1047	1013	985	960
3	1047	992	950	917	1028	979	940	910	1011	966	931	903
4	1008	944	898	864	991	933	891	859	975	923	884	854
5	970	901	853	818	955	892	847	815	941	883	842	811
6	935	861	813	778	921	854	808	776	909	847	804	773
7	901	825	776	743	889	819	773	741	878	813	770	739
8	869	791	743	711	859	786	741	710	849	781	738	708
9	839	760	713	682	829	756	711	681	820	752	709	680
10	811	732	685	655	802	728	684	654	794	724	682	653

Ceiling Cavity Reflectance	50				30			10			0
Wall Reflectance	70	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio (RCR)	** Values are expressed as Lumens delivered to the task surface **										
0	1075	1075	1075	1075	1029	1029	1029	987	987	987	968
1	1043	1027	1013	1000	992	981	971	959	951	943	927
2	1010	983	960	940	955	936	920	929	914	901	887
3	978	942	913	889	919	895	875	898	879	862	849
4	946	903	870	844	885	857	834	868	845	825	813
5	916	867	832	804	852	822	797	838	812	791	779
6	886	833	796	768	821	788	763	809	781	759	747
7	858	802	763	736	791	757	732	781	751	728	718
8	830	772	733	705	763	728	703	755	723	700	690
9	804	744	705	678	736	701	676	729	697	673	663
10	778	717	678	652	711	675	650	704	672	648	639

Average Luminance Table (cd/m²)

Horizontal Angle (Degrees)

Vertical Angle (Degree)	0	45	90
0	343000	343000	343000
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

This test was conduted using photometry techniques according to standard IES procedures. The user must therefore use caution in the following situations: 1) This test was performed using a specific ballast/lamp combination. Extrapolation of this data for other ballast/lamp combinations may produce erroneous results. 2) This test was conducted in a controlled laboratory environment where the ambient temperature was held at $25^0C \pm 1^0C$. Field performance may differ particularly in regards to change in luminous output as a result of difference in ambient temperature and method of mounting the luminaire.

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Polar Plot (Candela)