



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-20 DEGREE

LTL Test Number
25703

Test Date

2011-09-20

Prepared By

Eric Gaudreau, Technician III

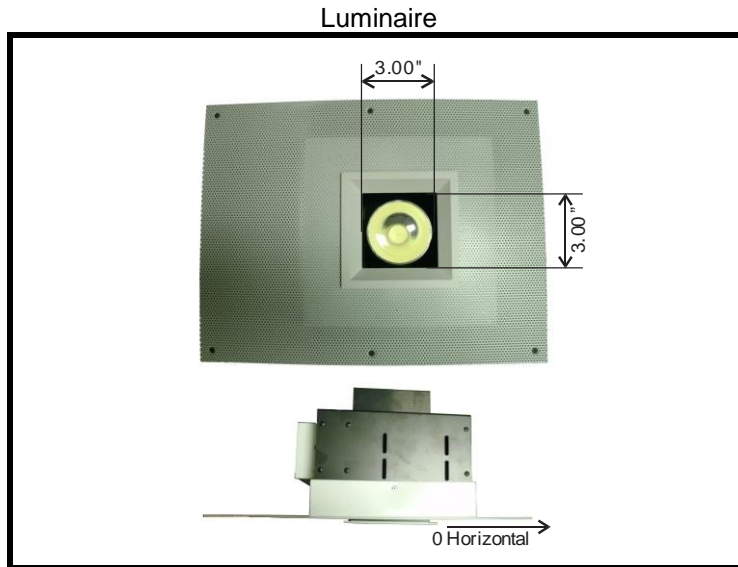
Approved By

Brian Moyer, Engineer

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Formed aluminum and steel housing, molded specular plastic reflector, cast white enamel lower trim, no enclosure
Catalog Number: 4017-LEDX-20 DEGREE
Lamp: One white LED
Mounting: Recessed
Ballast/Driver: One Advance "Xitanium" 9137012-13402



Zonal Lumen Summary

Table with 4 columns: Zone (Degrees), Lumens, % of Lamp, % of Luminaire. Rows include zones from 0-30 to 0-180 degrees.

Test Conditions

Test Temperature: 25.9 °C
Voltage: 120.0 VAC
Current: 0.2242 A
Power: 26.60 W
Power Factor: 0.989
Frequency: 60 Hz

Summary of Results

Total Lumen Output: 935.9 Lumens
Luminaire Efficacy: 35.2 Lumens/Watt
CIE Type: Direct
Spacing Criterion: 0 Degree: 0.39 90 Degree: 0.39 180 Degree: 0.39 270 Degree: 0.39

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.



Candela Tabulation
Horizontal 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	3760	3760	3760	3760	3760	3760	3760	3760	3760	3760	3760	3760	3760	3760	3760	3760
5	3207	3208	3213	3207	3207	3207	3213	3208	3207	3208	3213	3207	3207	3207	3213	3208
10	2250	2272	2281	2299	2313	2299	2281	2272	2250	2272	2281	2299	2313	2299	2281	2272
15	1124	1119	1118	1117	1116	1117	1118	1119	1124	1119	1118	1117	1116	1117	1118	1119
20	728	727	726	725	725	725	726	727	728	727	726	725	725	725	726	727
25	480	493	507	489	476	489	507	493	480	493	507	489	476	489	507	493
30	281	326	360	321	279	321	360	326	281	326	360	321	279	321	360	326
35	75	149	219	144	78	144	219	149	75	149	219	144	78	144	219	149
40	2	12	84	13	4	13	84	12	2	12	84	13	4	13	84	12
45	0	0	5	0	0	0	5	0	0	0	5	0	0	0	5	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	82.1	45-50	0.1	90-95	0	135-140	0
5-10	195.4	50-55	0	95-100	0	140-145	0
10-15	187.0	55-60	0	100-105	0	145-150	0
15-20	146.1	60-65	0	105-110	0	150-155	0
20-25	125.6	65-70	0	110-115	0	155-160	0
25-30	101.7	70-75	0	115-120	0	160-165	0
30-35	68.2	75-80	0	120-125	0	165-170	0
35-40	25.9	80-85	0	125-130	0	170-175	0
40-45	3.8	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	1141	1141	1141	1141	1114	1114	1114	1114	1088	1088	1088	1088
1	1097	1073	1052	1033	1073	1052	1033	1016	1051	1032	1015	1000
2	1055	1014	980	953	1034	998	967	942	1014	982	955	932
3	1015	962	922	891	997	949	913	883	979	937	903	876
4	977	916	873	840	961	906	866	835	946	896	859	830
5	942	875	830	797	928	867	825	793	914	859	819	790
6	908	838	792	760	896	831	788	757	884	825	784	755
7	877	805	759	727	866	799	756	725	855	793	753	724
8	848	774	729	698	838	769	726	697	828	764	724	695
9	820	746	701	672	811	742	699	671	802	738	697	670
10	794	720	676	648	786	716	675	647	778	713	673	646

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	1040	1040	1040	1040	996	996	996	955	955	955	936
1	1009	995	982	969	961	950	941	929	921	914	898
2	978	953	931	911	926	908	892	901	887	874	860
3	948	913	886	863	892	869	850	872	853	837	824
4	918	877	846	821	860	833	811	843	821	802	791
5	890	843	809	783	829	800	777	816	791	770	759
6	862	812	777	750	800	769	745	789	762	741	730
7	836	783	746	720	773	741	717	763	735	713	703
8	810	755	719	693	747	714	690	739	709	687	677
9	787	730	693	668	723	689	666	716	686	664	654
10	764	706	670	645	700	667	643	694	664	641	632

Average Luminance Table (cd/m²)

		Horizontal Angle (Degrees)		
		0	45	90
Vertical Angle (Degree)	0	647500	647500	647500
	45	0	1216	0
	55	0	0	0
	65	0	0	0
	75	0	0	0
	85	0	0	0

This test was conducted 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°C ±1°C. 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.



Polar Plot (Candela)

