



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-40 DEGREE

LTL Test Number
25705

Test Date

2011-09-20

Prepared By

Eric Gaudreau, Technician III

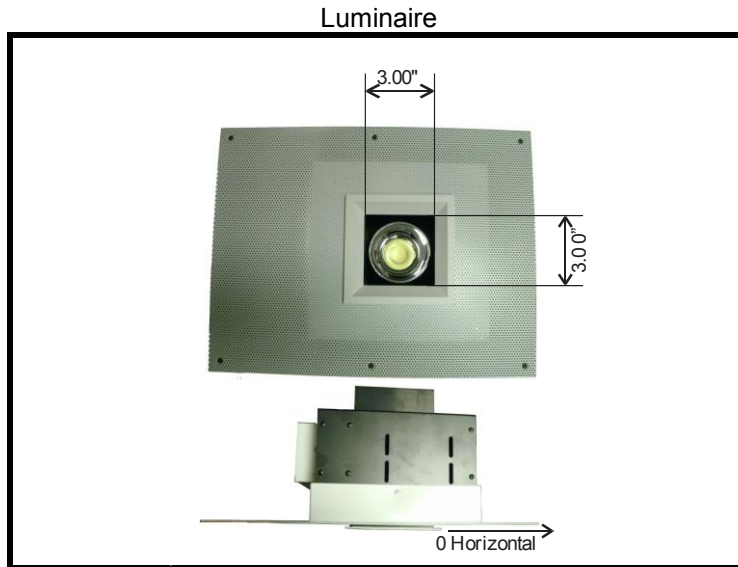
Approved By

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-40 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 0-30, 0-40, 0-60, 0-90, 90-180, and 0-180.

Test Conditions

Test Temperature: 24.3 °C
Voltage: 120.0 VAC
Current: 0.2242 A
Power: 26.65 W
Power Factor: 0.990
Frequency: 60 Hz

Summary of Results

Total Lumen Output: 893.8 Lumens
Luminaire Efficacy: 33.5 Lumens/Watt
CIE Type: Direct
Spacing Criterion: 0 Degree: 0.89 90 Degree: 0.89 180 Degree: 0.89 270 Degree: 0.89

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	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090	1090
5	1070	1067	1067	1067	1069	1067	1067	1067	1070	1067	1067	1067	1069	1067	1067	1067
10	1018	1015	1016	1016	1017	1016	1016	1015	1018	1015	1016	1016	1017	1016	1016	1015
15	934	931	932	933	934	933	932	931	934	931	932	933	934	933	932	931
20	825	821	822	823	822	823	822	821	825	821	822	823	822	823	822	821
25	682	682	682	682	678	682	682	682	682	682	682	682	678	682	682	682
30	472	513	530	509	469	509	530	513	472	513	530	509	469	509	530	513
35	244	313	378	309	247	309	378	313	244	313	378	309	247	309	378	313
40	96	126	213	126	94	126	213	126	96	126	213	126	94	126	213	126
45	3	9	72	10	4	10	72	9	3	9	72	10	4	10	72	9
50	1	2	4	3	2	3	4	2	1	2	4	3	2	3	4	2
55	0	0	0	1	0	1	0	0	0	0	0	1	0	1	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	25.8	45-50	4.2	90-95	0	135-140	0
5-10	74.6	50-55	0.4	95-100	0	140-145	0
10-15	115.6	55-60	0	100-105	0	145-150	0
15-20	144.5	60-65	0	105-110	0	150-155	0
20-25	158.0	65-70	0	110-115	0	155-160	0
25-30	150.3	70-75	0	115-120	0	160-165	0
30-35	119.7	75-80	0	120-125	0	165-170	0
35-40	73.2	80-85	0	125-130	0	170-175	0
40-45	27.5	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	1090	1090	1090	1090	1064	1064	1064	1064	1039	1039	1039	1039
1	1040	1013	989	968	1017	993	972	952	995	974	954	937
2	990	943	905	873	969	927	893	863	949	912	880	854
3	941	880	834	797	923	867	825	791	905	855	816	784
4	895	824	772	734	878	813	766	729	862	803	759	725
5	851	772	719	680	835	764	713	676	821	755	708	673
6	809	726	671	632	795	718	667	630	782	711	663	628
7	770	683	628	590	757	677	625	589	745	671	622	587
8	733	644	590	553	721	639	587	552	711	634	585	551
9	698	609	555	520	688	604	553	519	678	600	551	518
10	666	577	524	490	657	573	522	489	648	569	521	488

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	993	993	993	993	951	951	951	912	912	912	894
1	954	938	922	908	904	892	881	874	865	856	840
2	913	883	857	835	857	836	817	832	815	800	786
3	873	832	799	772	810	783	760	791	768	748	735
4	833	784	746	717	766	734	708	750	723	700	687
5	795	740	699	667	725	689	662	711	680	656	643
6	759	698	655	624	686	648	619	674	641	615	603
7	724	660	616	584	649	610	581	639	605	578	566
8	691	625	580	548	615	575	546	607	571	544	532
9	661	592	547	516	584	543	514	577	540	513	501
10	632	562	517	487	555	514	485	548	511	484	473

Average Luminance Table (cd/m²)

		Horizontal Angle (Degrees)		
		0	45	90
Vertical Angle (Degree)	0	187700	187700	187700
	45	822	17490	939
	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)

