



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

LTL NUMBER: 13049

DATE: 04-21-2008

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: MLS-I1/D1-4-X-OP/LP-X-120-T8

LUMINAIRE: EXTRUDED ALUMINUM HOUSING, FORMED SPECULAR ALUMINUM UPPER REFLECTOR, FORMED WHITE ENAMEL ALUMINUM LOWER REFLECTOR, CLEAR LINEAR PRISMATIC PLASTIC LOWER LENS, OPEN TOP.

LAMPS: TWO 32 WATT T8 LINEAR FLUORESCENT LAMPS RATED AT 2850 LUMENS EACH.

LAMP CATALOG NUMBER: PHILIPS F32T8/TL835/ALTO

BALLASTS: TWO UNIVERSAL LIGHTING TECHNOLOGIES B232IUNV-C

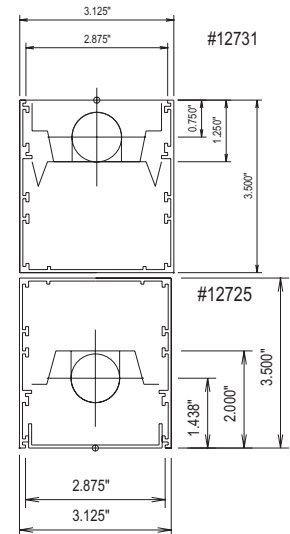
MOUNTING: PENDANT

NOTE: THIS TEST WAS CALCULATED USING MEASURED DATA FROM LTL TEST NUMBERS 12731 AND 12725.

LUMEN TO CANDELA RATIO USED = 9.18

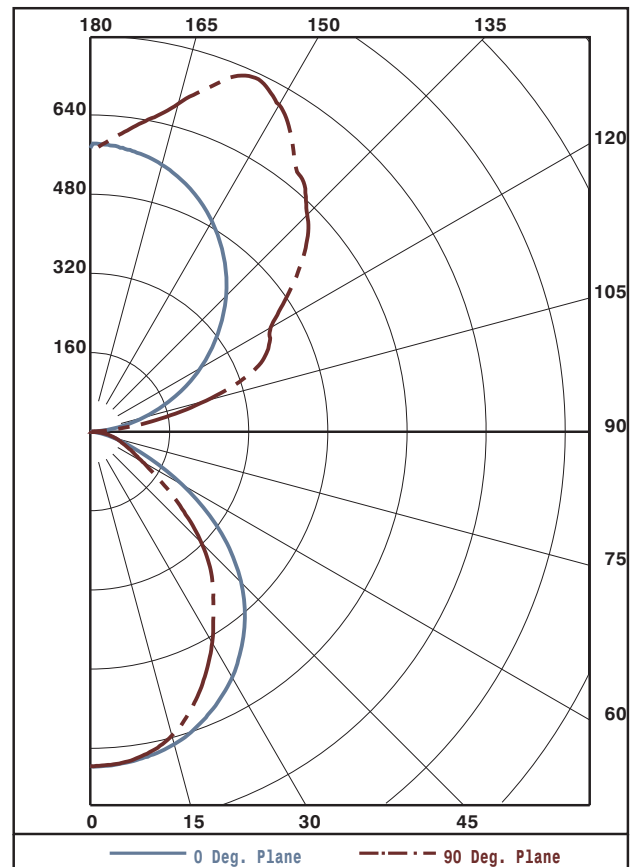
TOTAL INPUT WATTS = 68.8 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.



CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	FLUX
0	675	675	675	675	675	
5	674	671	675	671	672	64
15	652	649	647	637	635	182
25	605	595	576	554	547	265
35	533	507	467	441	435	297
45	431	385	349	326	316	276
55	293	253	215	184	173	198
65	142	136	111	96	92	115
75	50	59	59	56	55	60
85	8	16	20	19	19	19
90	0	1	3	3	3	
95	24	55	51	42	38	52
105	112	184	243	245	242	223
115	209	327	341	378	397	334
125	303	471	489	493	490	413
135	388	555	602	615	620	440
145	460	571	711	717	712	404
155	518	583	691	772	788	311
165	558	588	635	670	685	179
175	579	577	591	597	598	57
180	572	572	572	572	572	



ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	510	9.0	13.1
0- 40	807	14.2	20.8
0- 60	1281	22.5	32.9
0- 90	1476	25.9	37.9
90-120	610	10.7	15.7
90-130	1023	17.9	26.3
90-150	1867	32.8	48.0
90-180	2414	42.3	62.1
0-180	3889	68.2	100.0

TOTAL LUMINAIRE EFFICIENCY: 68.2%

CIE TYPE: SEMI-INDIRECT

PLANE: 0-DEG 90-DEG

SPACING CRITERIA: 1.3 1.1

Approved By: MG

THIS REPORT BASED ON LM-41 AND OTHER PERTINENT IESNA PROCEDURES.



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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD
EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

Table with columns for RC, RW, and various angles (0, 10, 30, 50, 70, 80) showing utilization coefficients.

PLANE: 0-DEG 90-DEG
LUMINOUS LENGTH: 48.000 2.875

Table showing LUMINANCE IN CANDELA PER SQUARE METER for various angles (0, 45, 55, 65, 75, 85) and average values.



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Table with 6 columns: CANDELA, DISTRIBUTION (0.0, 22.5, 45.0, 67.5, 90.0), and ZONAL LUMEN SUMMARY (0-5, 5-10, etc.).

THIS TEST WAS CONDUCTED USING RELATIVE PHOTOMETRY TECHNIQUES ACCORDING TO STANDARD IESNA PROCEDURES. THE USER MUST THEREFORE USE CAUTION IN THE FOLLOWING SITUATIONS: 1) THIS TEST WAS PERFORMED USING A SPECIFIC BALLAST/LAMP COMBINATION. EXTRAPOLATION OF THESE DATA FOR OTHER BALLAST/LAMP COMBINATIONS MAY PRODUCE ERRONEOUS RESULTS. 2) ACCORDING TO IESNA PROCEDURES, THE BALLAST(S) AND LAMP(S) ARE PRESUMED TO PRODUCE 100% OF RATED OUTPUT. AN APPROPRIATE BALLAST FACTOR MUST BE APPLIED TO THE LUMEN OUTPUT RATINGS AND LUMINOUS INTENSITY VALUES GIVEN. 3) 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.