



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: 13051

DATE: 04-21-2008

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

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

LUMINAIRE: EXTRUDED ALUMINUM HOUSING, FORMED SPECULAR ALUMINUM UPPER REFLECTOR, FORMED WHITE ENAMEL ALUMINUM UPPER REFLECTOR, 30 CELL, 3/4" DEEP, FORMED SEMI-SPECULAR ALUMINUM BAFFLE.

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

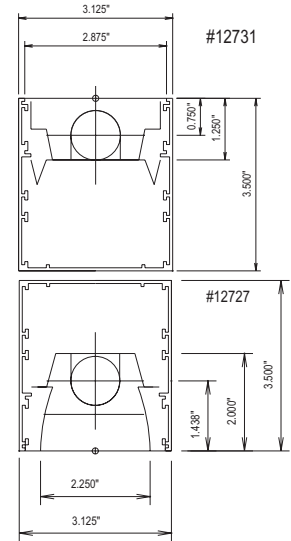
NOTE: THIS TEST WAS CALCULATED USING MEASURED DATA

FROM LTL TEST NUMBERS 12731 AND 12727.

LUMEN TO CANDELA RATIO USED = 9.18

TOTAL INPUT WATTS = 69.4 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.



CANDELA DISTRIBUTION						FLUX
	0.0	22.5	45.0	67.5	90.0	
0	653	653	653	653	653	
5	648	648	655	654	657	62
15	613	622	646	666	675	182
25	556	576	620	648	660	282
35	480	513	544	552	568	333
45	384	415	417	425	443	322
55	256	266	259	260	270	232
65	74	74	78	68	56	77
75	18	15	13	13	13	16
85	2	1	1	1	2	2
90	0	0	0	0	0	
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	527	9.2	13.4
0- 40	860	15.1	21.9
0- 60	1414	24.8	36.0
0- 90	1508	26.5	38.5
90-120	610	10.7	15.5
90-130	1023	17.9	26.1
90-150	1867	32.8	47.6
90-180	2414	42.3	61.5
0-180	3922	68.8	100.0

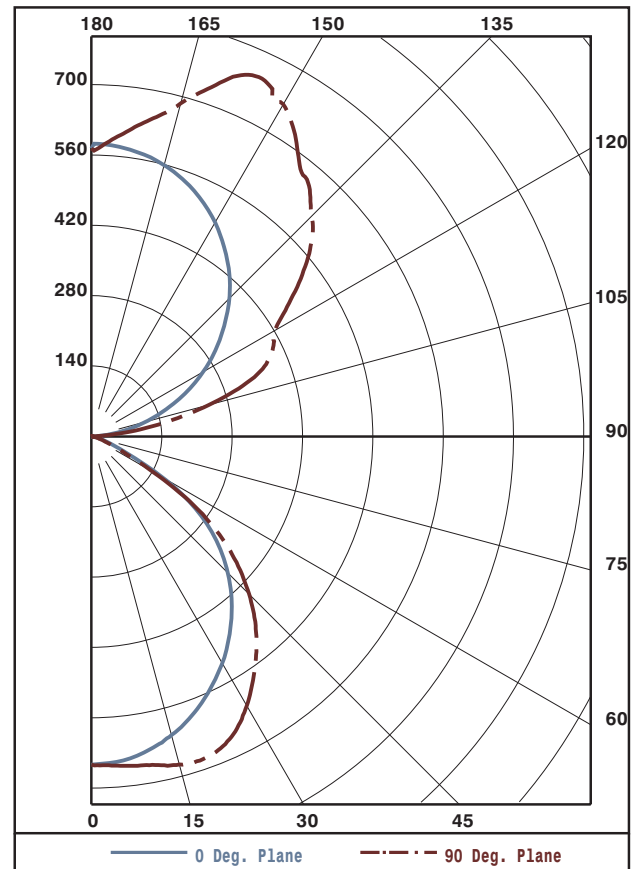
TOTAL LUMINAIRE EFFICIENCY: 68.8%

CIE TYPE: SEMI-INDIRECT

PLANE: 0-DEG 90-DEG

SPACING CRITERIA: 1.2 1.4

SHIELDING ANGLES: 29 34



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 RC, RW, and rows for cavity heights 80, 70, 50, 30, 10, 0. Each row contains 18 numerical values representing utilization coefficients.

PLANE: 0-DEG 90-DEG
LUMINOUS LENGTH: 44.875 2.250

Table showing LUMINANCE IN CANDELA PER SQUARE METER for various angles (0, 45, 55, 65, 75, 85) and average values at 0, 45, and 90 degrees.



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CANDELA DISTRIBUTION

ZONAL LUMEN SUMMARY

Table with 6 columns for Candela Distribution (0.0, 22.5, 45.0, 67.5, 90.0) and 10 columns for Zonal Lumen Summary (0-5, 5-10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75, 75-80, 80-85, 85-90, 90-95, 95-100, 100-105, 105-110, 110-115, 115-120, 120-125, 125-130, 130-135, 135-140, 140-145, 145-150, 150-155, 155-160, 160-165, 165-170, 170-175, 175-180). Values range from 0 to 653.

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.