



# 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: 13044

DATE: 04-18-2008

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: MLS-I1/D2-4-X-OP/PBW-X-120-T5

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

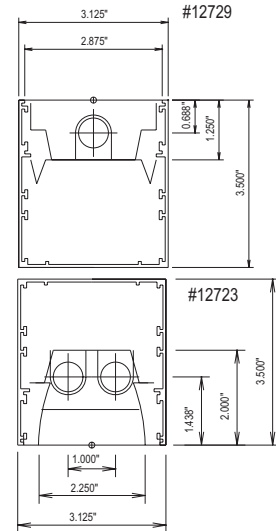
LAMPS: THREE 28 WATT T5 LINEAR FLUORESCENT LAMP RATED AT 2610 LUMENS EACH.

LAMP CATALOG NUMBER: PHILIPS F28T5/835/ALTO

BALLASTS: TWO ONE ADVANCE ICN-2S28

MOUNTING: PENDANT

NOTE: THIS TEST WAS CALCULATED USING MEASURED DATA FROM LTL TEST NUMBERS 12729 AND 12723.  
LUMEN TO CANDELA RATIO USED = 9.18  
TOTAL INPUT WATTS = 84.4 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	1321	1321	1321	1321	1321	
5	1306	1307	1318	1312	1313	124
15	1194	1201	1224	1227	1230	342
25	1034	1040	1033	1040	1054	479
35	843	832	818	836	868	522
45	623	604	604	605	613	468
55	380	375	367	341	339	324
65	171	175	188	191	197	185
75	91	91	93	98	102	100
85	21	21	23	24	25	26
90	0	0	0	0	0	
95	16	67	58	58	53	57
105	82	174	224	262	283	225
115	157	275	345	378	385	316
125	231	423	473	484	490	390
135	300	511	539	544	592	397
145	358	542	656	668	647	370
155	406	524	666	713	724	285
165	438	486	578	638	657	160
175	456	454	470	481	486	46
180	451	451	451	451	451	

### FLUX

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	945	12.1	19.6
0- 40	1468	18.7	30.5
0- 60	2260	28.9	46.9
0- 90	2571	32.8	53.4
90-120	598	7.6	12.4
90-130	988	12.6	20.5
90-150	1755	22.4	36.4
90-180	2246	28.7	46.6
0-180	4817	61.5	100.0

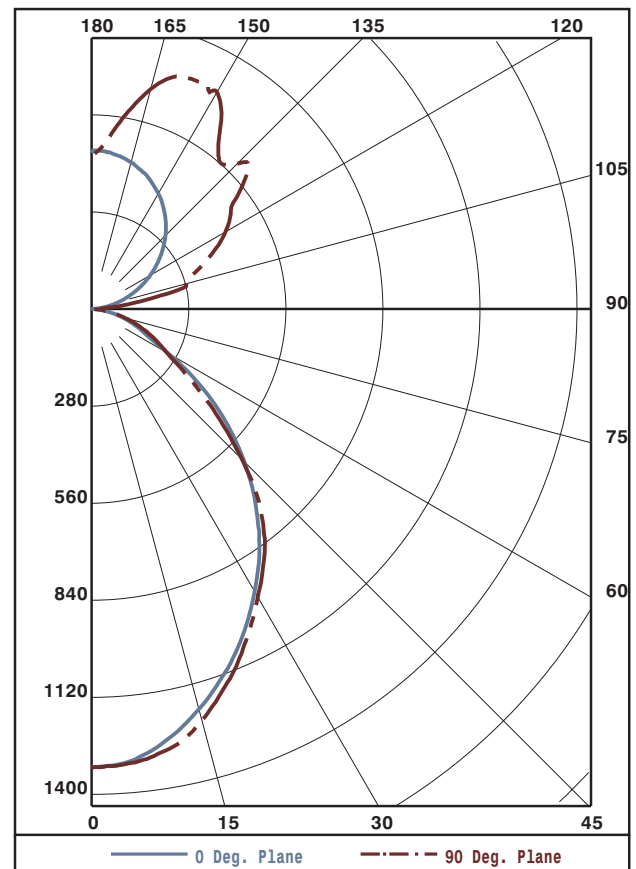
TOTAL LUMINAIRE EFFICIENCY: 61.5%

CIE TYPE: GENERAL DIFFUSE

PLANE: 0-DEG 90-DEG

SPACING CRITERIA: 1.1 1.1

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 7 columns (RC, 80, 70, 50, 30, 10, 0) and 11 rows (RW 0-10) showing utilization coefficients.

PLANE: 0-DEG 90-DEG
LUMINOUS LENGTH: 48.000 2.250

Table with 4 columns (ANGLE IN DEG, AVERAGE 0-DEG, AVERAGE 45-DEG, AVERAGE 90-DEG) and 5 rows (0, 45, 55, 65, 75, 85) showing luminance values.



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CANDELA DISTRIBUTION

Table with 6 columns of candela values for angles 0.0, 22.5, 45.0, 67.5, 90.0 and rows for angles from 0 to 180.

ZONAL LUMEN SUMMARY

Table with 2 columns of zonal lumen values for angle ranges from 0-5 to 175-180.

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.