



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: 13045

DATE: 04-18-2008

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

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

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

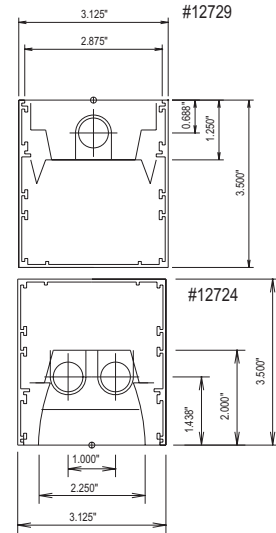
LAMPS: THREE 28 WATT T5 LINEAR FLUORESCENT LAMPS RATED AT 2610 LUMENS EACH.

LAMP CATALOG NUMBER: PHILIPS F28T5/835/ALTO

BALLASTS: TWO ADVANCE ICN-2S28

MOUNTING: PENDANT

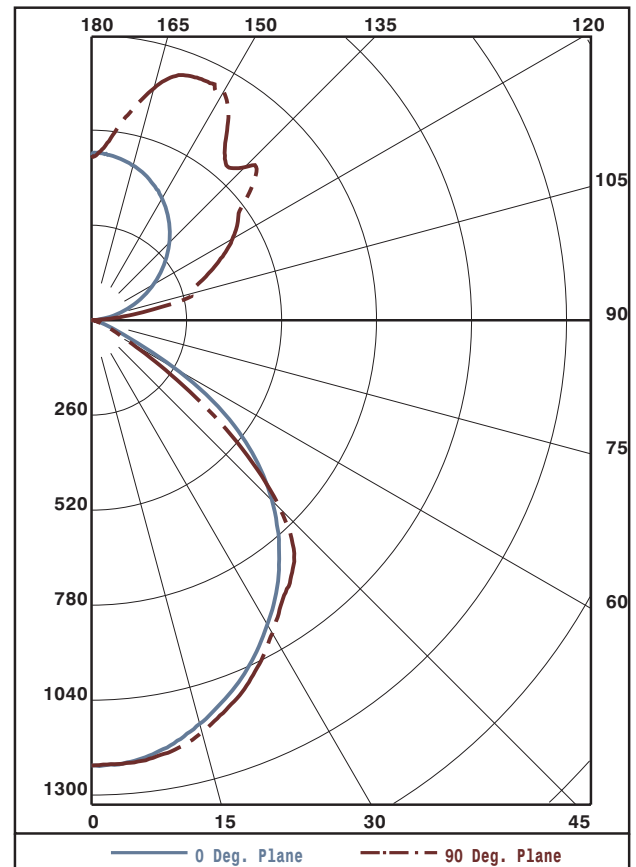
NOTE: THIS TEST WAS CALCULATED USING MEASURED DATA FROM LTL TEST NUMBERS 12729 AND 12724.
LUMEN TO CANDELA RATIO USED = 9.18
TOTAL INPUT WATTS = 84.5 AT 120.0 VOLTS
THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.



CANDELA DISTRIBUTION						FLUX
	0.0	22.5	45.0	67.5	90.0	
0	1217	1217	1217	1217	1217	
5	1212	1212	1218	1212	1214	115
15	1144	1150	1167	1166	1168	327
25	1033	1040	1041	1050	1060	481
35	886	881	880	892	919	557
45	697	683	686	715	729	536
55	441	419	393	323	284	335
65	108	102	90	75	61	95
75	27	22	18	19	19	23
85	3	3	3	3	3	4
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	

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	%LAMP	%FIXT
0- 30	924	11.8	19.6
0- 40	1481	18.9	31.4
0- 60	2351	30.0	49.8
0- 90	2472	31.6	52.4
90-120	598	7.6	12.7
90-130	988	12.6	20.9
90-150	1755	22.4	37.2
90-180	2246	28.7	47.6
0-180	4718	60.3	100.0

TOTAL LUMINAIRE EFFICIENCY: 60.3%
CIE TYPE: GENERAL DIFFUSE
PLANE: 0-DEG 90-DEG
SPACING CRITERIA: 1.2 1.2
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 19 columns (RC, RW, 80, 70, 50, 30, 10, 0) and 11 rows of 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 6 rows of luminance values.



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CANDELA DISTRIBUTION

Table with 6 columns of candela values for various angles from 0.0 to 180 degrees.

ZONAL LUMEN SUMMARY

Table with 2 columns: Zonal angle ranges and corresponding lumen values.

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.