



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: 13037

DATE: 04-11-2008

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: MLS-I1/D1-4-X-OP/LP-X-120-T5HO

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

LAMPS: TWO 54 WATT HIGH OUTPUT T5 LINEAR FLUORESCENT LAMPS RATED AT 4400 LUMENS EACH.

LAMP CATALOG NUMBER: PHILIPS F54T5/850/HO/ALTO

BALLASTS: TWO UNIVERSAL LIGHTING TECHNOLOGIES B254PUNV-D

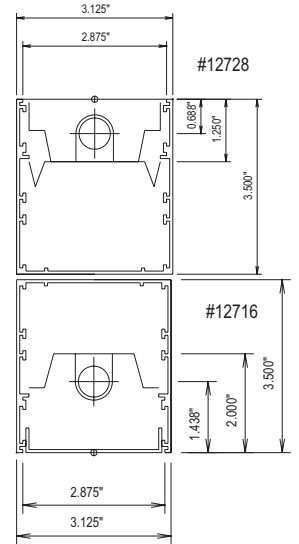
MOUNTING: PENDANT

NOTE: THIS TEST WAS CALCULATED USING MEASURED DATA FROM LTL TEST NUMBERS 12728 AND 12716

LUMEN TO CANDELA RATIO USED = 9.18

TOTAL INPUT WATTS = 112.7 AT 120.0 VOLTS

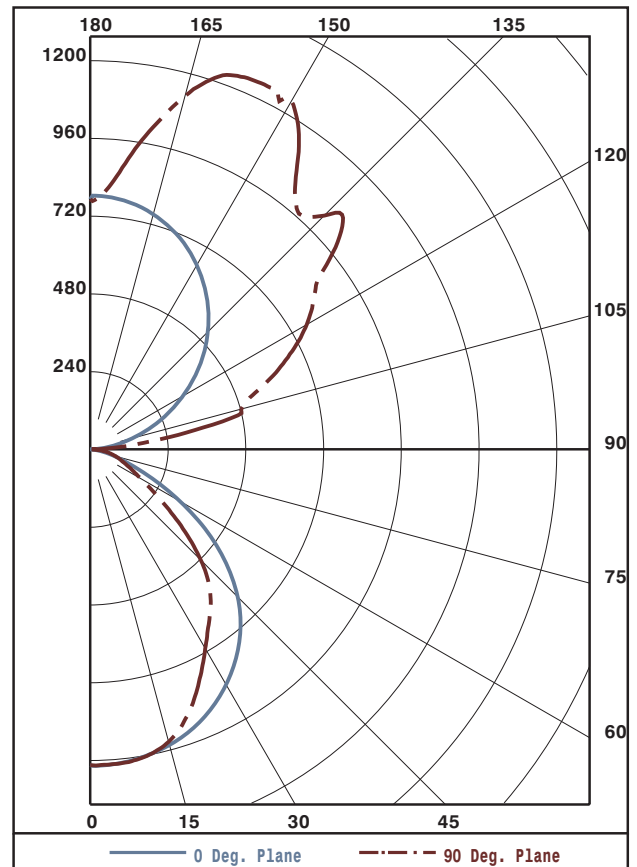
THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.



CANDELA DISTRIBUTION						FLUX
0	22.5	45.0	67.5	90.0		
0	972	972	972	972	972	92
5	971	965	975	970	972	265
15	941	940	944	933	931	385
25	880	869	842	803	790	433
35	782	738	673	643	639	409
45	640	557	517	492	480	294
55	436	369	324	274	254	169
65	208	200	163	140	135	89
75	73	87	86	83	81	29
85	12	25	30	29	28	6
90	0	2	4	5	6	118
95	32	126	120	107	102	394
105	149	303	398	460	494	552
115	281	481	595	659	678	673
125	412	728	808	841	849	684
135	531	872	934	939	1024	634
145	632	921	1121	1146	1115	486
155	712	890	1135	1217	1239	274
165	767	831	985	1086	1122	79
175	796	783	806	824	830	
180	782	782	782	782	782	

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	%LAMP	%FIXT
0- 30	742	8.4	12.2
0- 40	1175	13.4	19.4
0- 60	1878	21.3	31.0
0- 90	2164	24.6	35.7
90-120	1065	12.1	17.6
90-130	1738	19.8	28.7
90-150	3056	34.7	50.4
90-180	3895	44.3	64.3
0-180	6059	68.9	100.0

TOTAL LUMINAIRE EFFICIENCY: 68.9%
 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 18 columns (RC, RW, 80, 70, 50, 30, 10, 0) and 11 rows of numerical data representing utilization coefficients.

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

Table with 4 columns (ANGLE IN DEG, AVERAGE 0-DEG, AVERAGE 45-DEG, AVERAGE 90-DEG) and 6 rows of numerical data representing luminance values.



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CANDELA DISTRIBUTION

Table with 6 columns representing candela values at 0.0, 22.5, 45.0, 67.5, and 90.0 degrees for various beam diameters from 0 to 180.

ZONAL LUMEN SUMMARY

Table with 3 columns representing beam diameter ranges (e.g., 0-5, 5-10) and their corresponding total lumens.

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.