



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: 13040

DATE: 04-11-2008

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: MLS-I2/D1-4-X-OP/LP-X-120-T5HO

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

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

LAMP CATALOG NUMBER: PHILIPS F54T5/835/HO/ALTO AND F54T5/850/HO/ALTO

BALLASTS: TWO UNIVERSAL LIGHTING TECHNOLOGIES BB254PUNV-D

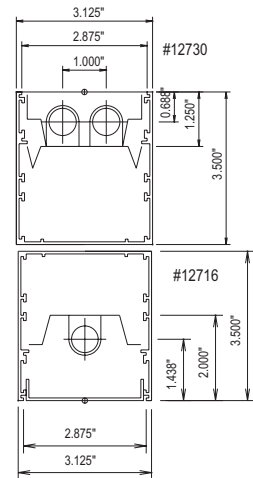
MOUNTING: PENDANT

NOTE: THIS TEST WAS CALCULATED USING MEASURED DATA FROM LTL TEST NUMBERS 12730 AND 12716.

LUMEN TO CANDELA RATIO USED = 9.18

TOTAL INPUT WATTS = 163.4 AT 120.0 VOLTS

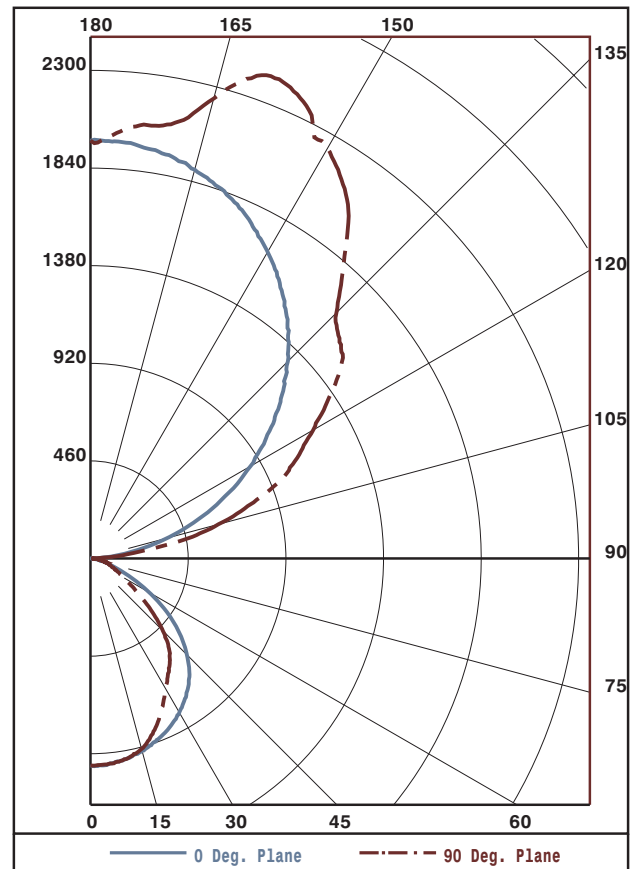
THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.



CANDELA DISTRIBUTION						FLUX
	0.0	22.5	45.0	67.5	90.0	
0	972	972	972	972	972	
5	971	965	975	970	972	92
15	941	940	944	933	931	265
25	880	869	842	803	790	385
35	782	738	673	643	639	433
45	640	557	517	492	480	409
55	436	369	324	274	254	294
65	208	200	163	140	135	169
75	73	87	86	83	81	89
85	12	25	30	29	28	29
90	0	2	4	5	6	
95	83	151	132	119	112	135
105	371	518	603	621	625	591
115	704	909	967	1020	1052	939
125	1018	1371	1282	1387	1395	1177
135	1314	1762	1770	1662	1638	1286
145	1559	1884	2117	2099	2096	1240
155	1763	1916	2281	2368	2373	993
165	1896	2003	2078	2191	2244	594
175	1966	1981	2027	2038	2034	193
180	1966	1966	1966	1966	1966	

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% FIXT
0- 30	742	5.6	8.0
0- 40	1175	8.9	12.6
0- 60	1878	14.2	20.2
0- 90	2164	16.4	23.2
90-120	1665	12.6	17.9
90-130	2842	21.5	30.5
90-150	5368	40.7	57.6
90-180	7147	54.1	76.8
0-180	9312	70.5	100.0

TOTAL LUMINAIRE EFFICIENCY: 70.5%
 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 RC, RW, and rows for cavity heights 80, 70, 50, 30, 10, 0. Each row contains 16 numerical values representing utilization coefficients.

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

Table with columns ANGLE IN DEG, AVERAGE 0-DEG, AVERAGE 45-DEG, AVERAGE 90-DEG. Rows show luminance values for angles 0, 45, 55, 65, 75, 85.



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CANDELA DISTRIBUTION

ZONAL LUMEN SUMMARY

Table with 6 columns for Candela Distribution (0.0 to 180) and 2 columns for Zonal Lumen Summary (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.