



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: 08692

DATE: 02-10-2005

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: LMSI/D03-PH-OP/PB-T5HO

LUMINAIRE: EXTRUDED ALUMINUM HOUSING WITH PERFORATED SECTIONS AND TRANSLUCENT WHITE ACRYLIC INSERTS, FORMED SPECULAR ALUMINUM REFLECTORS, 15 CELL, 1-3/8" DEEP, FORMED SEMI-SPECULAR ALUMINUM LOUVER WITH TRANSLUCENT WHITE ACRYLIC OVERLAY, OPEN TOP.

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

LAMP CATALOG NUMBER: PHILIPS F54T5/841/HO/ALTO

BALLASTS: TWO UNIVERSAL LIGHTING TECHNOLOGIES B254PUNV-D

MOUNTING: PENDANT

LUMEN TO CANDELA RATIO USED = 9.18

TOTAL INPUT WATTS =176.4 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
0	446	446	446	446	446
5	442	443	443	437	438
15	410	412	416	424	428
25	382	382	382	397	400
35	326	333	340	353	366
45	264	263	280	291	303
55	183	196	197	213	222
65	52	67	87	104	111
75	15	21	38	51	49
85	0	16	16	31	35
90	0	15	18	21	29
95	81	330	311	236	216
105	417	934	1228	1399	1418
115	806	1354	1825	1870	1889
125	1182	1622	2212	2492	2577
135	1517	1851	2365	2725	2831
145	1800	2007	2416	2682	2782
155	2022	2106	2365	2561	2636
165	2167	2195	2273	2369	2405
175	2247	2247	2263	2264	2271
180	2253	2253	2253	2253	2253

FLUX

42
119
179
213
216
178
87
34
22
333
1162
1602
1838
1756
1473
1082
648
216

ZONAL LUMEN SUMMARY

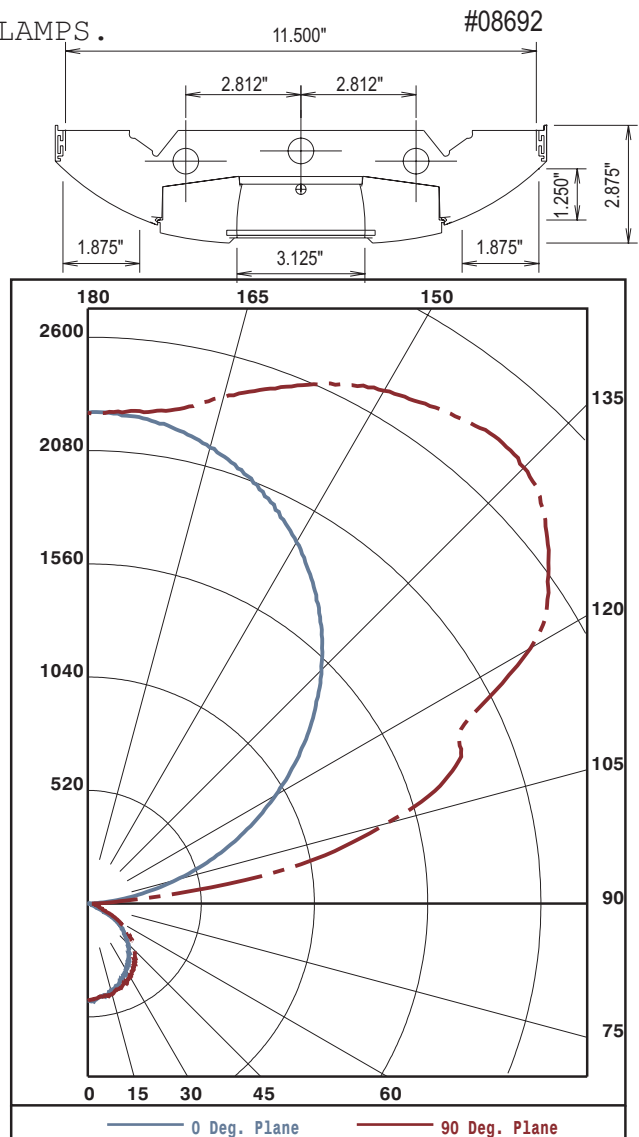
ZONE	LUMENS	%LAMP	%FIXT
0- 30	340	2.6	3.0
0- 40	553	4.2	4.9
0- 60	946	7.2	8.4
0- 90	1089	8.3	9.7
90-120	3098	23.5	27.7
90-130	4935	37.4	44.1
90-150	8165	61.9	72.9
90-180	10111	76.6	90.3
0-180	11200	84.8	100.0

TOTAL LUMINAIRE EFFICIENCY: 84.8%

CIE TYPE: INDIRECT

PLANE: 0-DEG 90-DEG

SPACING CRITERIA: 1.2 1.3



TESTED BY HERSCHEL SCHRECK
CHECKED BY MIKE GRATHER

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 17 columns (RC, RW, and 15 numerical values) and 11 rows (0-10).

PLANE: 0-DEG 90-DEG
LUMINOUS LENGTH: 46.750 11.625
HEIGHT OF SIDE: 0.000 1.250

Table with 4 columns (ANGLE IN DEG, AVERAGE 0-DEG, AVERAGE 45-DEG, AVERAGE 90-DEG) and 6 rows (0, 45, 55, 65, 75, 85).



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CANDELA DISTRIBUTION

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

ZONAL LUMEN SUMMARY

Table with 2 columns representing zonal lumen values for beam diameter 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.