



**LUMINAIRE TESTING LABORATORY, INC.**

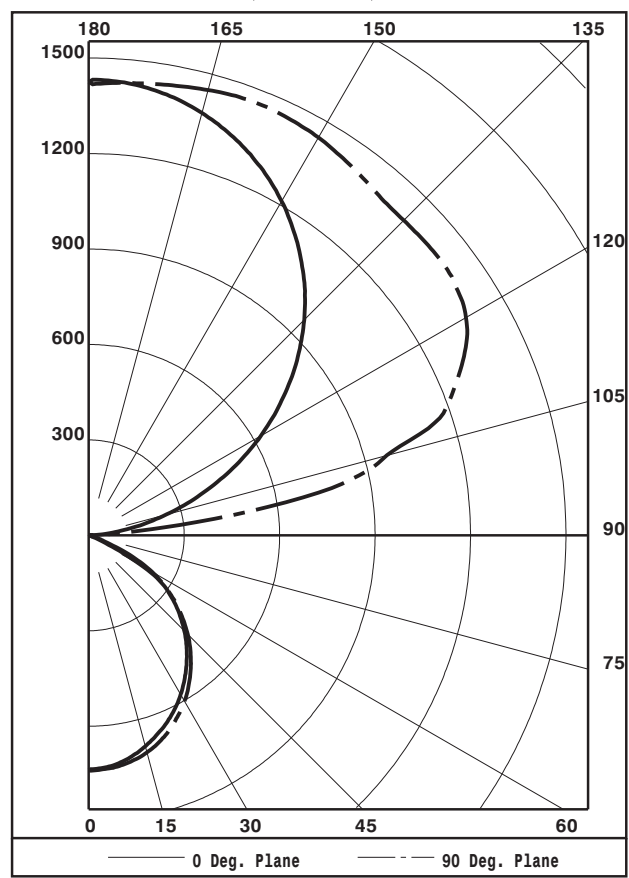
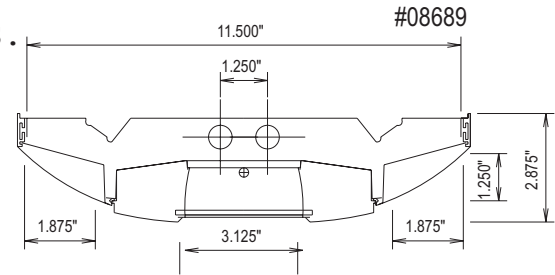
SUSTAINING  
MEMBER  
of the  
IESNA

905 Harrison Street · Allentown, PA 18103 · 610-770-1044 · Fax 610-770-8912 · www.LuminaireTesting.com

LTL NUMBER: 08689  
 PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING  
 CATALOG NUMBER: LMSI/D02-PH-OP/PB-T5HO  
 LUMINAIRE: EXTRUDED ALUMINUM HOUSING WITH PERFORATED SECTIONS AND TRANSLUCENT WHITE ACRYLIC INSERTS, TRANSLUCENT WHITE POLYCARBONATE SIDE SHIELDS, FORMED SPECULAR ALUMINUM REFLECTORS, 15 CELL, 1-3/8" DEEP, FORMED SEMI-SPECULAR ALUMINUM LOUVER WITH TRANSLUCENT WHITE ACRYLIC OVERLAY, OPEN TOP.  
 LAMPS: TWO HORIZONTAL 54 WATT HIGH OUTPUT T5 LINEAR FLUORESCENT LAMPS RATED AT 4400 LUMENS EACH.  
 LAMP CATALOG NUMBER: PHILIPS F54T5/841/HO/ALTO  
 BALLAST: ONE UNIVERSAL LIGHTING TECHNOLOGIES B254PUNV-D  
 MOUNTING: PENDANT  
 LUMEN TO CANDELA RATIO USED = 9.18  
 TOTAL INPUT WATTS =118.3 AT 120.0 VOLTS  
 THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

DATE: 02-08-2005

CANDELA DISTRIBUTION						FLUX
0.0	22.5	45.0	67.5	90.0		
0	739	739	739	739	739	70
5	730	734	737	735	736	197
15	687	693	700	703	707	291
25	620	625	630	636	643	336
35	530	533	534	541	553	328
45	425	423	421	424	440	261
55	301	294	287	289	306	101
65	59	78	101	118	132	17
75	7	10	15	20	22	7
85	2	4	7	9	10	229
90	0	3	5	7	8	779
95	51	246	218	167	152	961
105	253	556	830	943	970	990
115	500	707	1040	1233	1297	933
125	740	901	1125	1328	1399	817
135	958	1076	1220	1343	1400	636
145	1137	1211	1323	1397	1425	401
155	1277	1317	1390	1438	1455	136
165	1374	1389	1421	1439	1449	
175	1426	1422	1430	1427	1427	
180	1425	1425	1425	1425	1425	



ZONAL	LUMEN	SUMMARY		
ZONE	LUMENS	%LAMP	%FIXT	
0- 30	557	6.3	7.4	
0- 40	894	10.2	11.9	
0- 60	1482	16.8	19.8	
0- 90	1606	18.3	21.5	
90-120	1968	22.4	26.3	
90-130	2958	33.6	39.5	
90-150	4708	53.5	62.9	
90-180	5881	66.8	78.5	
0-180	7487	85.1	100.0	

TOTAL LUMINAIRE EFFICIENCY: 85.1%  
 CIE TYPE: SEMI-INDIRECT  
 PLANE: 0-DEG 90-DEG  
 SPACING CRITERIA: 1.2 1.2

TESTED BY HERSCHEL SCHRECK  
 CHECKED BY MIKE GRATHER



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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD
EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

Table with columns RC, RW, and rows for angles 0-10 degrees. Each row contains 18 numerical values representing utilization coefficients for different cavity reflectance and height scenarios.

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

LUMINANCE IN CANDELA PER SQUARE METER

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, and 85 degrees.



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CANDELA DISTRIBUTION

Table with 6 columns of candela values for various angles from 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.