



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: 13293

DATE: 05-28-2008

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: DRPI-01-X-4-X-X-120-T5HO

LUMINAIRE: EXTRUDED ALUMINUM HOUSING, FORMED SPECULAR ALUMINUM
REFLECTOR, OPEN TOP.

LAMP: ONE 54 WATT HIGH OUTPUT T5 LINEAR FLUORESCENT LAMP RATED AT
4400 LUMENS.

LAMP CATALOG NUMBER: PHILIPS FP54T5/835/HO/ALTO

BALLAST: ONE UNIVERSAL LIGHTING TECHNOLOGIES B254PUNV-D

MOUNTING: WALL

LUMEN TO CANDELA RATIO USED = 9.18

TOTAL INPUT WATTS = 57.8 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PERPENDICULAR TO THE LAMPS.

CANDELA DISTRIBUTION										FLUX
	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	
90	0	0	0	0	0	0	0	0	0	
95	61	55	66	113	32	6	0	1	0	52
105	490	563	559	490	147	39	15	26	17	271
115	904	957	951	765	282	140	72	37	39	455
125	1316	1217	1119	1036	418	270	184	137	130	571
135	1416	1455	1489	1052	534	404	300	249	243	608
145	1762	1756	1493	1036	640	545	415	368	365	573
155	1621	1500	1281	1073	727	683	570	499	490	429
165	1267	1235	1185	1001	785	776	729	676	669	261
175	1021	967	933	864	817	809	815	808	808	84
180	820	820	820	820	820	820	820	820	820	

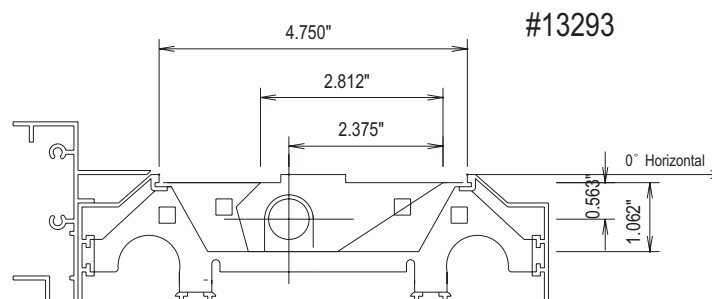
ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 90	0	0.0	0.0
90-120	778	17.7	23.6
90-130	1349	30.7	40.8
90-150	2530	57.5	76.6
90-180	3303	75.1	100.0
0-180	3303	75.1	100.0

TOTAL LUMINAIRE EFFICIENCY:

75.1%

CIE TYPE: INDIRECT



Approved By: MG

THIS REPORT BASED ON LM-41 AND OTHER PERTINENT IESNA PROCEDURES.



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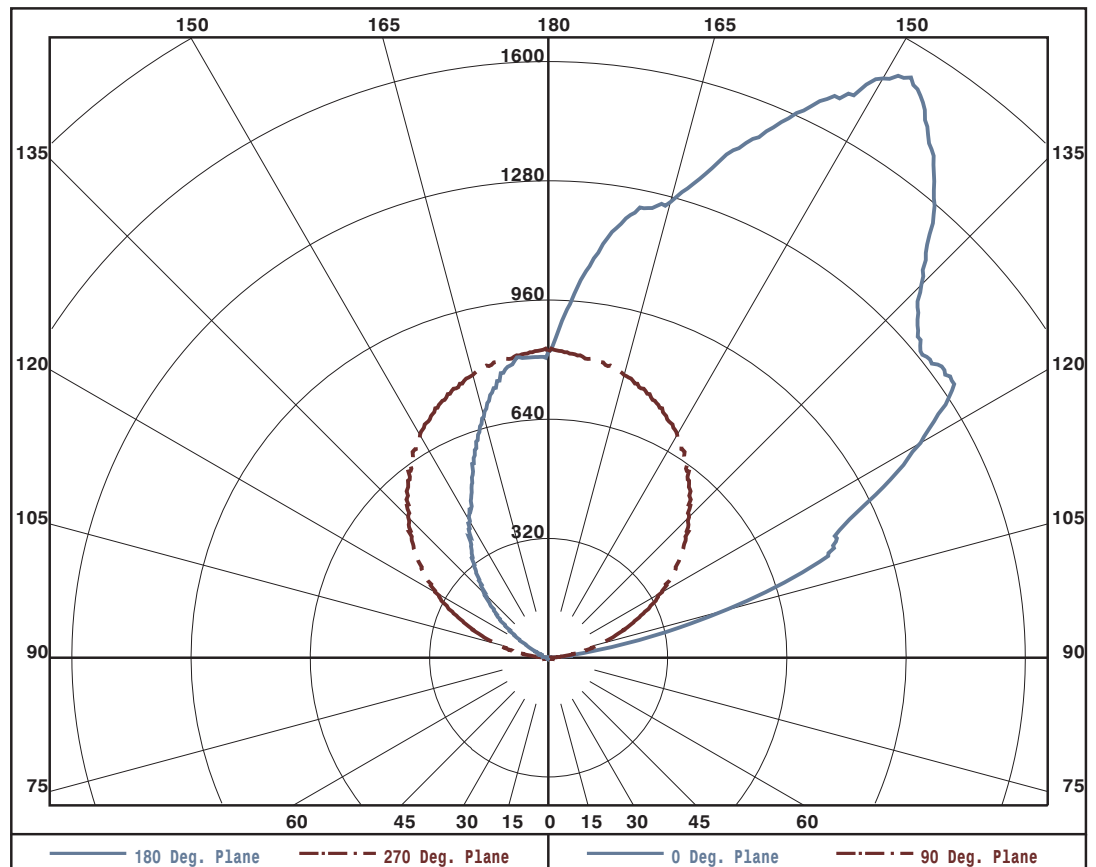
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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0
90	0	0	0	0	0	0	0	0	0
95	61	55	66	113	32	6	0	1	0
100	191	253	311	297	82	14	22	24	17
105	490	563	559	490	147	39	15	26	17
110	799	762	740	588	216	95	36	19	28
115	904	957	951	765	282	140	72	37	39
120	1153	1177	992	945	353	199	123	83	69
125	1316	1217	1119	1036	418	270	184	137	130
130	1303	1282	1307	1050	476	328	241	189	180
135	1416	1455	1489	1052	534	404	300	249	243
140	1610	1637	1578	1043	590	474	362	310	301
145	1762	1756	1493	1036	640	545	415	368	365
150	1795	1661	1402	1066	691	620	494	431	423
155	1621	1500	1281	1073	727	683	570	499	490
160	1449	1333	1216	1051	762	743	660	589	578
165	1267	1235	1185	1001	785	776	729	676	669
170	1198	1146	1077	940	806	795	791	763	755
175	1021	967	933	864	817	809	815	808	808
180	820	820	820	820	820	820	820	820	820

ZONAL LUMEN SUMMARY

90-95	7.
95-100	46.
100-105	109.
105-110	162.
110-115	205.
115-120	250.
120-125	280.
125-130	291.
130-135	300.
135-140	308.
140-145	299.
145-150	274.
150-155	235.
155-160	194.
160-165	151.
165-170	110.
170-175	64.
175-180	20.





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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	72	72	72	72	61	61	61	61	42	42	42	24	24	24	8	8	8	0
1	65	62	59	57	55	53	51	49	36	35	34	21	20	20	7	7	6	0
2	59	54	50	46	50	46	43	40	32	30	28	18	17	16	6	6	5	0
3	54	47	42	38	46	41	37	33	28	25	23	16	15	14	5	5	5	0
4	49	42	36	32	42	36	31	28	25	22	20	14	13	12	5	4	4	0
5	45	37	31	27	38	32	27	24	22	19	17	13	11	10	4	4	3	0
6	41	33	27	23	35	28	24	20	20	17	14	11	10	9	4	3	3	0
7	38	29	24	20	32	25	21	18	18	15	12	10	9	7	3	3	2	0
8	35	27	21	18	30	23	18	15	16	13	11	9	8	6	3	2	2	0
9	32	24	19	15	28	21	16	13	14	12	10	8	7	6	3	2	2	0
10	30	22	17	14	26	19	15	12	13	10	8	8	6	5	2	2	2	0

NOTE: THE ZONAL CAVITY CALCULATION TECHNIQUE IS ACCURATE WHEN LUMINAIRES WITH SYMMETRIC CANDELA DISTRIBUTIONS ARE EMPLOYED AND WHEN THE LUMINAIRES ARE LOCATED SYMMETRICALLY THROUGHOUT THE ROOM. THIS UNIT HAS SPECIAL CHARACTERISTICS AND THEREFORE THESE COEFFICIENTS SHOULD BE USED WITH CAUTION.

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.