



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: 09787

DATE: 04-18-2006

PREPARED FOR: SPECIALTY LIGHTING INDUSTRIES, LLC

CATALOG NUMBER: 1100-T10

LUMINAIRE: FORMED STEEL AND EXTRUDED ALUMINUM HOUSING, FORMED SEMI-SPECULAR ALUMINUM REFLECTOR, CLEAR LINEAR PRISMATIC GLASS LENS.

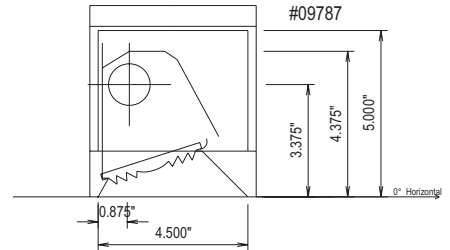
LAMP: ONE HORIZONTAL 100 WATT T10 HALOGEN LAMP RATED AT 1430 LUMENS.

LAMP CATALOG NUMBER: SYLVANIA 100T10/HAL/F

MOUNTING: RECESSED

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5
0	254	254	254	254	254	254	254	254
5	305	303	294	275	247	220	203	194
15	281	281	286	290	244	185	169	156
25	250	260	260	268	232	170	142	131
35	175	186	224	224	181	129	114	93
45	141	149	165	159	124	74	79	70
55	88	99	108	87	63	49	46	49
65	46	54	53	47	40	30	26	21
75	20	24	23	24	20	15	9	7
85	3	5	5	6	5	3	2	2
90	0	0	0	0	0	0	0	0



	180.0	202.5	225.0	247.5	270.0	292.5	315.0	337.5
0	254	254	254	254	254	254	254	254
5	194	196	205	223	252	279	297	304
15	152	158	165	179	234	288	296	289
25	123	125	122	126	178	238	252	261
35	85	86	74	60	103	143	187	178
45	62	59	40	37	44	57	87	132
55	44	43	25	27	33	36	43	86
65	17	15	15	18	24	27	27	39
75	5	5	7	9	14	15	14	16
85	0	1	2	2	3	3	2	2
90	0	0	0	0	0	0	0	0

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	177	12.4	40.5
0- 40	265	18.5	60.5
0- 60	389	27.2	88.7
0- 90	438	30.6	100.0
90-180	0	0.0	0.0
0-180	438	30.6	100.0

LUMEN TABULATION

0- 10	24
10- 20	64
20- 30	89
30- 40	88
40- 50	72
50- 60	52
60- 70	31
70- 80	15

TOTAL LUMINAIRE EFFICIENCY: 30.6%

CIE TYPE: DIRECT

PLANE: 0-DEG 90-DEG 180-DEG 270-DEG

SPACING CRITERIA: 1.2 1.2 0.6 1.0

LUMINOUS LENGTH: 4.500 6.125

TESTED BY HERSCHEL SCHRECK
CHECKED BY MIKE GRATHER

THIS REPORT BASED ON LM-46 AND OTHER PERTINENT IESNA PROCEDURES.



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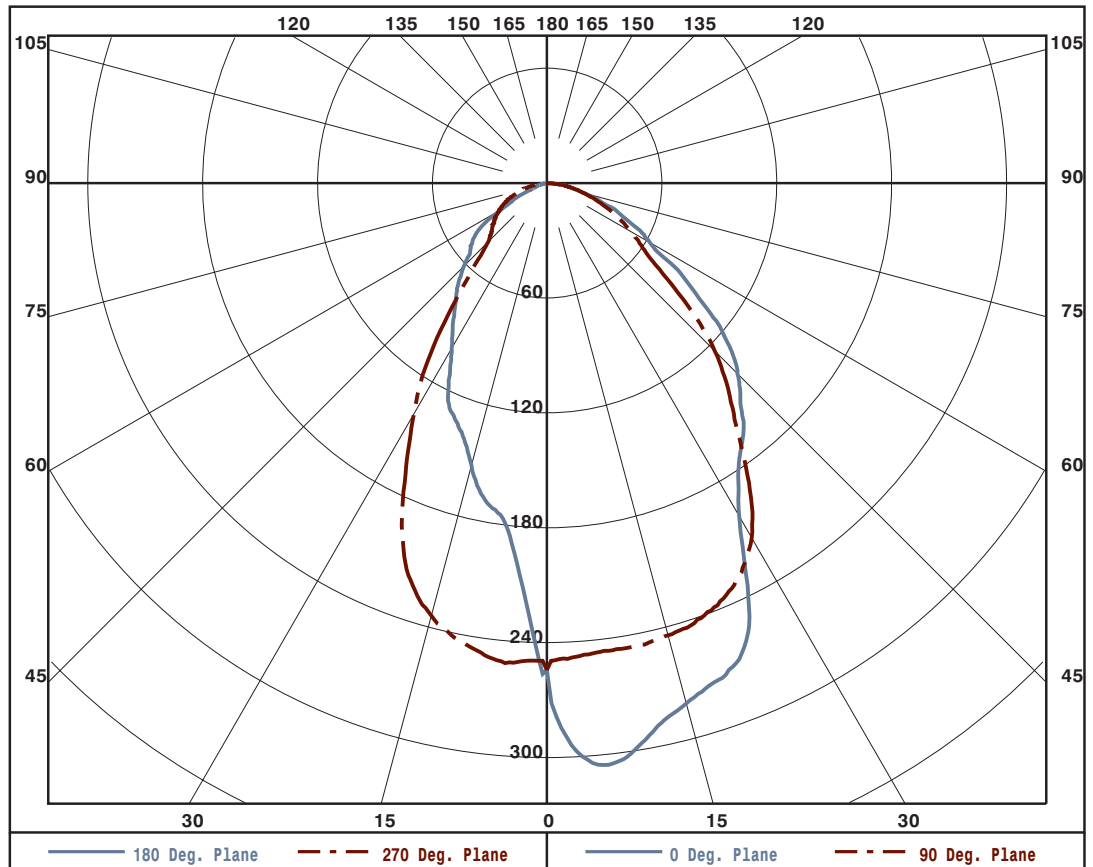
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ZONAL LUMEN SUMMARY

0- 5	6.
5- 10	17.
10- 15	28.
15- 20	36.
20- 25	43.
25- 30	46.
30- 35	45.
35- 40	42.
40- 45	38.
45- 50	34.
50- 55	29.
55- 60	23.
60- 65	18.
65- 70	13.
70- 75	9.
75- 80	6.
80- 85	3.
85- 90	1.

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	14283.	14283.	14283.
45	11213.	13121.	9861.
55	8627.	10588.	6176.
65	6121.	7052.	5322.
75	4345.	4997.	4345.
85	1936.	3226.	3226.





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CANDELA DISTRIBUTION

Table with 10 columns (0.0 to 157.5) and 19 rows (0 to 90) showing candela values.

Table with 10 columns (180.0 to 337.5) and 19 rows (0 to 90) showing candela values.



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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	37	37	37	37	36	36	36	36	34	34	34	33	33	33	31	31	31	31	31
1	34	33	32	31	33	32	31	31	31	30	30	30	29	29	29	28	28	28	27
2	32	30	28	27	31	29	28	27	28	27	26	27	26	26	27	26	25	24	24
3	30	27	25	24	29	27	25	24	26	24	23	25	24	23	24	23	22	22	22
4	28	25	23	21	27	25	23	21	24	22	21	23	22	20	23	21	20	20	20
5	26	23	20	19	25	22	20	19	22	20	19	21	20	18	21	19	18	18	18
6	24	21	19	17	24	21	18	17	20	18	17	20	18	17	19	18	16	16	16
7	23	19	17	15	22	19	17	15	18	16	15	18	16	15	18	16	15	14	14
8	21	17	15	14	21	17	15	14	17	15	14	17	15	13	16	15	13	13	13
9	20	16	14	12	19	16	14	12	16	14	12	15	13	12	15	13	12	12	12
10	18	15	13	11	18	15	13	11	14	12	11	14	12	11	14	12	11	11	11

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) 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. 2) THIS TEST WAS CONDUCTED IN A CONTROLLED LABORATORY ENVIRONMENT, FIELD PERFORMANCE MAY DIFFER.