



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: 09788

DATE: 04-18-2006

PREPARED FOR: SPECIALTY LIGHTING INDUSTRIES, LLC

CATALOG NUMBER: 1200-R

LUMINAIRE: FORMED STEEL AND EXTRUDED ALUMINUM HOUSING, FORMED WHITE ENAMEL ALUMINUM REFLECTOR, CLEAR LINEAR PRISMATIC GLASS LENS.

LAMPS: TWO 37 WATT MR16 HALOGEN LAMPS RATED AT 550 LUMENS EACH.

LAMP CATALOG NUMBER: SYLVANIA 37MR/IR/FL40/C

MOUNTING: RECESSED

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	FLUX
0	274	274	274	274	274	274	274	274	274	
5	469	424	357	296	265	244	242	239	237	31
15	1209	1048	748	414	244	209	188	171	169	132
25	1584	1298	864	461	210	161	138	123	122	235
35	1289	1105	704	358	153	101	80	67	59	248
45	458	545	438	199	90	62	47	31	33	162
55	162	177	182	93	47	32	28	19	16	74
65	38	33	50	35	35	21	20	8	5	27
75	2	2	4	15	16	4	1	5	5	7
85	2	1	1	2	4	1	1	1	0	2
90	0	0	0	0	0	0	0	0	0	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	398	36.2	43.3
0- 40	646	58.7	70.3
0- 60	882	80.2	96.0
0- 90	919	83.6	100.0
90-180	0	0.0	0.0
0-180	919	83.6	100.0

TOTAL LUMINAIRE EFFICIENCY: 83.6%

CIE TYPE: DIRECT

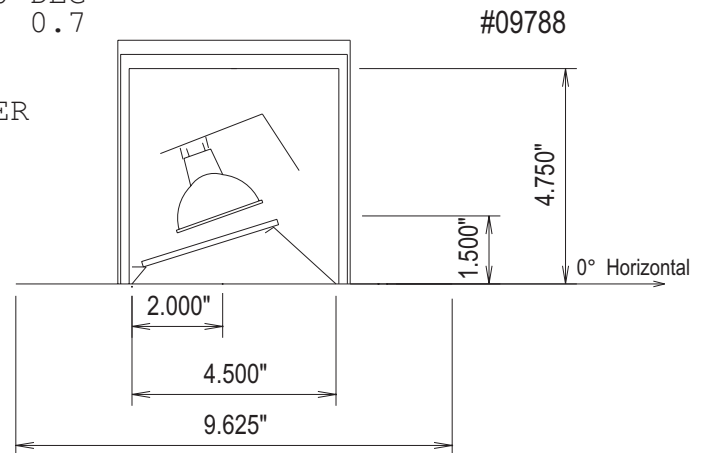
PLANE: 0-DEG 90-DEG 180-DEG

SPACING CRITERIA: 2.1 1.0 0.7

LUMINOUS LENGTH: 4.500 7.250

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	13017.	13017.	13017.
45	30770.	29426.	6047.
55	13418.	15074.	3893.
65	4272.	5620.	3934.
75	367.	734.	2937.
85	1090.	545.	2180.



TESTED BY HERSCHEL SCHRECK
CHECKED BY MIKE GRATHER

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



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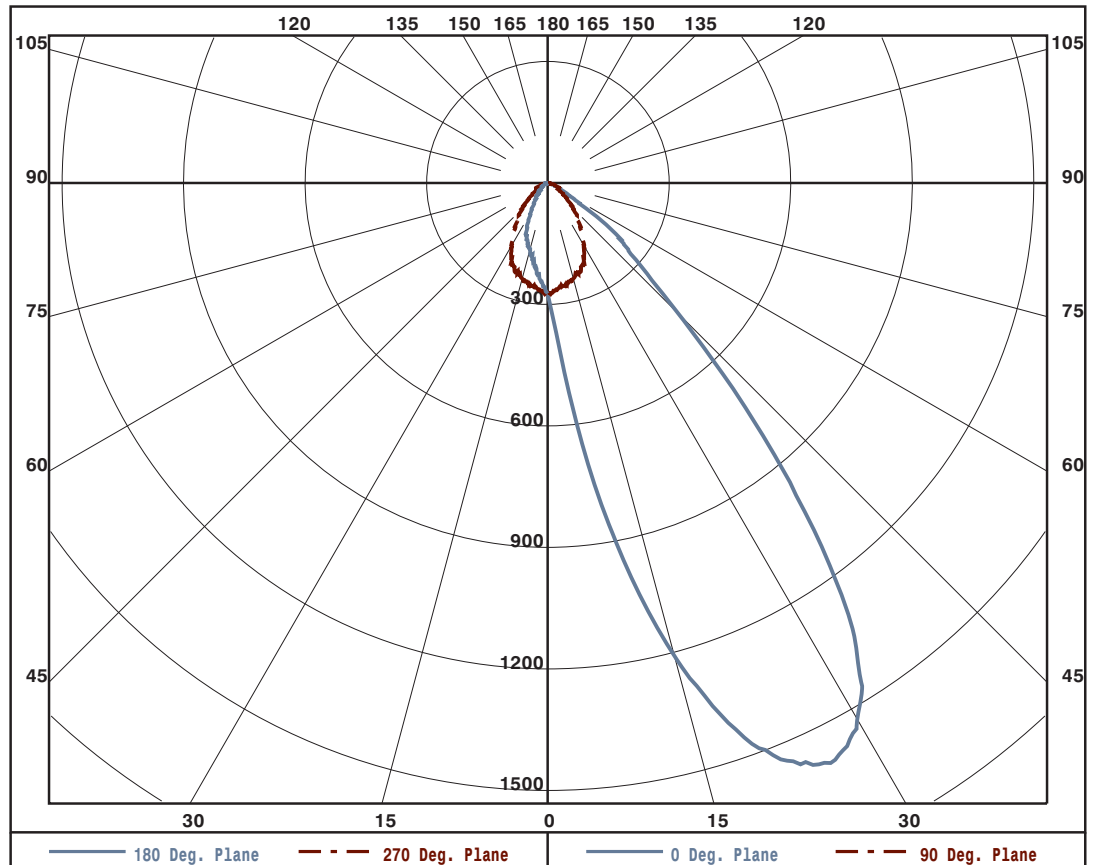
PREPARED FOR: SPECIALTY LIGHTING INDUSTRIES, LLC

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0
0	274	274	274	274	274	274	274	274	274
5	469	424	357	296	265	244	242	239	237
10	847	738	546	350	255	228	211	198	195
15	1209	1048	748	414	244	209	188	171	169
20	1474	1238	855	462	235	187	165	149	150
25	1584	1298	864	461	210	161	138	123	122
30	1528	1245	803	413	177	128	106	89	84
35	1289	1105	704	358	153	101	80	67	59
40	857	854	584	272	117	77	62	50	38
45	458	545	438	199	90	62	47	31	33
50	261	310	295	137	63	48	33	29	23
55	162	177	182	93	47	32	28	19	16
60	61	68	100	55	34	26	18	18	16
65	38	33	50	35	35	21	20	8	5
70	16	13	19	32	19	15	2	1	0
75	2	2	4	15	16	4	1	5	5
80	7	5	5	5	4	4	7	5	2
85	2	1	1	2	4	1	1	1	0
90	0	0	0	0	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	7.
5- 10	24.
10- 15	50.
15- 20	82.
20- 25	109.
25- 30	126.
30- 35	129.
35- 40	119.
40- 45	95.
45- 50	67.
50- 55	46.
55- 60	28.
60- 65	17.
65- 70	10.
70- 75	4.
75- 80	3.
80- 85	2.
85- 90	0.





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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	99	99	99	99	97	97	97	97	93	93	93	89	89	89	85	85	85	83
1	94	91	89	87	92	89	87	85	86	84	83	83	82	80	80	79	78	76
2	89	84	80	77	87	83	79	76	80	77	75	77	75	73	75	73	71	70
3	83	77	73	69	82	76	72	68	74	70	67	72	69	66	70	67	65	64
4	78	71	66	62	77	70	65	61	68	64	61	67	63	60	65	62	59	58
5	73	65	60	56	72	64	59	55	63	58	55	61	57	54	60	57	54	52
6	69	60	54	50	67	59	54	50	58	53	50	57	52	49	56	52	49	47
7	64	55	49	45	63	54	49	45	53	48	44	52	47	44	51	47	44	42
8	60	50	44	40	58	50	44	40	49	44	40	48	43	40	47	43	40	38
9	55	46	40	36	54	45	40	36	45	39	36	44	39	36	43	39	36	34
10	52	42	36	32	51	42	36	32	41	36	32	40	35	32	39	35	32	31

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.