



LTL NUMBER: 06527

DATE: 02-22-2002

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: LMS01-PH-X-SR-4-120-T5HO

LUMINAIRE: EXTRUDED ALUMINUM HOUSING WITH FORMED STEEL ENDS, FORMED SPECULAR ALUMINUM REFLECTOR, PERFORATED SECTIONS WITH TRANSLUCENT WHITE ACRYLIC INSERTS, OPEN TOP.

LAMP: ONE SYLVANIA FP54/830/HO RATED AT 4400 LUMENS.

BALLAST: ONE ADVANCE ICN-2S54

MOUNTING: PENDENT

LUMEN TO CANDELA RATIO USED = 9.18

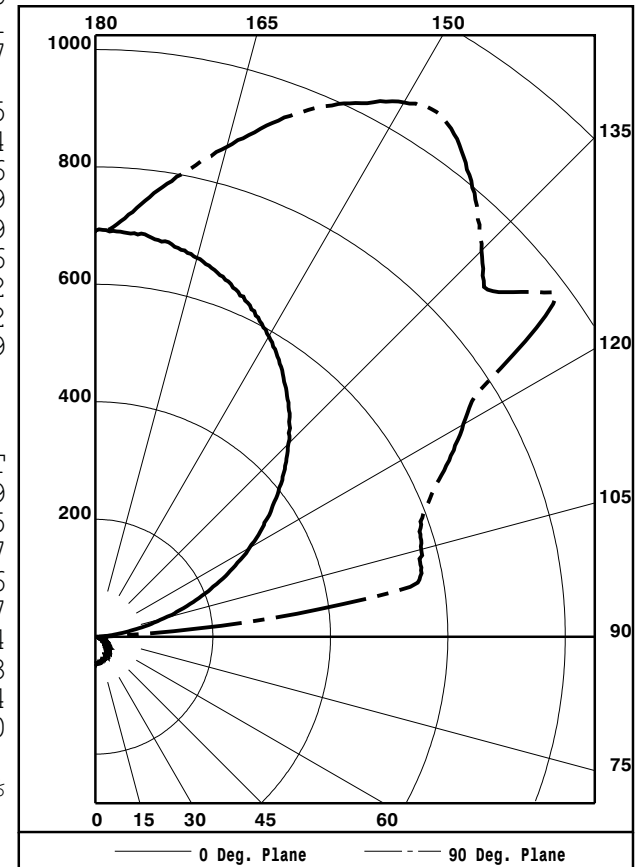
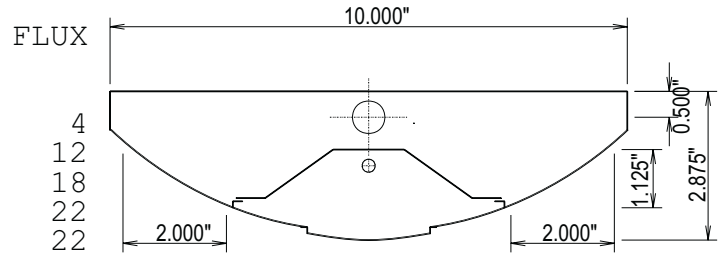
TOTAL INPUT WATTS = 63.0 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

#06527

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	
0	45	45	45	45	45	45
5	45	45	46	46	46	46
15	42	41	42	43	43	43
25	39	39	40	40	41	41
35	33	34	34	41	41	41
45	24	27	30	35	36	36
55	13	21	24	27	29	29
65	9	14	18	21	23	23
75	5	6	11	13	17	17
85	0	4	7	8	10	10
90	0	5	6	7	7	7
95	24	169	248	227	215	195
105	121	318	414	528	574	424
115	245	471	590	628	650	536
125	361	620	721	914	917	629
135	464	704	888	919	930	619
145	554	729	924	1036	1056	546
155	622	733	877	971	1002	392
165	668	722	793	844	864	222
175	689	695	711	721	726	69
180	692	692	692	692	692	692



ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	35	0.8	0.9
0- 40	57	1.3	1.5
0- 60	100	2.3	2.7
0- 90	134	3.0	3.6
90-120	1155	26.3	30.7
90-130	1784	40.5	47.4
90-150	2949	67.0	78.3
90-180	3632	82.5	96.4
0-180	3766	85.6	100.0

TOTAL LUMINAIRE EFFICIENCY: 85.6%

CIE TYPE: INDIRECT

PLANE: 0-DEG 90-DEG

SPACING CRITERIA: 1.1 1.4

TESTED BY HERSCHEL SCHRECK
 CHECKED BY MIKE GRATHER



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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	
0	82	82	82	82	71	71	71	71	49	49	49	30	30	30	11	11	11	3
1	75	71	68	65	64	61	59	57	43	41	40	26	25	24	10	10	10	2
2	68	62	57	53	58	54	50	46	37	35	33	23	21	20	9	8	8	2
3	62	54	49	44	53	47	42	39	33	30	28	20	18	17	8	7	7	2
4	56	48	42	37	48	41	36	32	29	26	23	18	16	14	7	6	6	2
5	52	42	36	31	44	37	31	28	26	22	20	16	14	12	6	5	5	1
6	47	38	31	27	40	33	27	24	23	20	17	14	12	11	6	5	4	1
7	44	34	28	23	37	29	24	20	21	17	15	13	11	9	5	4	4	1
8	40	30	24	20	34	26	21	18	19	15	13	11	9	8	4	4	3	1
9	37	28	22	18	32	24	19	16	17	14	11	10	8	7	4	3	3	1
10	35	25	19	16	30	22	17	14	15	12	10	9	8	6	4	3	3	1

PLANE: 0-DEG 90-DEG
LUMINOUS LENGTH: 46.500 4.000
HEIGHT OF SIDE: 0.000 1.125

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	375.	375.	375.
45	283.	506.	424.
55	189.	445.	421.
65	177.	383.	411.
75	161.	285.	353.
85	0.	241.	257.



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CANDELA DISTRIBUTION

ZONAL LUMEN SUMMARY

Table with 6 columns: Candela values (0-180) and Zonal Lumen Summary (0-180). The table shows the distribution of light intensity and the cumulative lumen output for various beam diameters.

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.



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INITIAL ILLUMINATION OF 50 FOOTCANDLES USING LTL TEST NUMBER 06527
 LUMINAIRE SUSPENSION LENGTH = 1.5
 WORKING PLANE HEIGHT = 2.50
 FLOOR REFLECTANCE = 20

ROOM HT	CEIL RF	8				9				10				12			
		80	70	50	30	80	70	50	30	80	70	50	30	80	70	50	30
WALL RF		70	50	50	30	70	50	50	30	70	50	50	30	70	50	50	30
WIDTH	LENGTH																
10.	10.	3	3	3	4	3	3	4	4	3	4	4	5	3	4	5	6
10.	15.	3	4	4	5	4	4	5	5	4	5	5	6	4	5	6	7
15.	20.	6	6	7	8	6	7	8	8	6	7	8	9	7	8	9	11
15.	30.	8	9	10	11	8	9	11	12	9	10	11	13	10	11	13	15
20.	20.	7	8	9	10	8	8	10	10	8	9	10	11	9	10	11	13
20.	30.	10	11	13	13	11	12	13	14	11	12	14	15	12	14	16	17
20.	40.	13	14	16	17	14	15	17	18	14	16	18	20	15	17	20	22
20.	60.	19	20	24	25	20	21	25	26	21	22	26	28	22	24	28	31
30.	30.	15	15	18	19	15	16	19	20	16	17	20	21	17	18	21	23
30.	40.	19	20	23	24	20	21	24	25	20	22	25	27	21	23	27	29
30.	50.	23	25	29	30	24	25	30	31	25	26	31	32	26	28	33	36
30.	60.	28	29	34	35	29	30	35	37	29	31	36	38	31	33	39	42
60.	60.	53	55	64	66	54	56	66	68	55	58	67	70	57	60	70	74
60.	80.	71	72	84	86	72	74	86	88	73	76	88	91	75	79	91	96
60.	100.	88	90	104	106	89	92	106	109	90	93	108	112	92	97	113	118
100.	100.	144	147	170	173	145	149	173	176	147	151	175	179	150	155	180	186

QUANTITY OF LUMINAIRES