



LTL NUMBER: 08364 DATE: 09-02-2004
PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING
CATALOG NUMBER: LMPI/D02-PH-WR-4-LP-X-120-T5HO/T5HO
LUMINAIRE: EXTRUDED ALUMINUM HOUSING, FORMED WHITE ENAMEL ALUMINUM REFLECTOR, PERFORATED SECTION WITH TRANSLUCENT WHITE ACRYLIC INSERT, CLEAR LINEAR PRISMATIC POLYCARBONATE LENS.
LAMPS: TWO 54 WATT HIGH OUTPUT T5 LINEAR FLUORESCENT LAMPS RATED AT 4400 LUMENS EACH.
LAMP CATALOG NUMBER: SYLVANIA FP54/841/HO AND SYLVANIA FP54/830/HO
BALLAST: ONE UNIVERSAL LIGHTING TECHNOLOGIES B254PUNV-D AND ONE MAGNETEK B254PUNV-D
NOTE: THIS TEST REPORT WAS CALCULATED USING MEASURED DATA FROM LTL TEST REPORT NUMBERS 06293 AND 08339.
MOUNTING: WALL

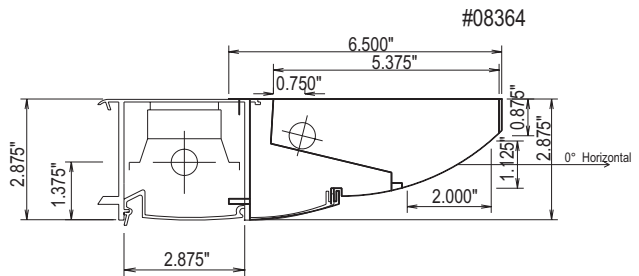
LUMEN TO CANDELA RATIO USED = 9.18
TOTAL INPUT WATTS =121.3 AT 120.0 VOLTS
THE 0 DEGREE PLANE IS PERPENDICULAR TO THE LAMPS.

Table with columns: CANDELA DISTRIBUTION, FLUX. Rows show light distribution data at various angles from 0 to 180 degrees.

ZONAL LUMEN SUMMARY

Table with columns: ZONE, LUMENS, %LAMP, %FIXT. Rows show lumen and lamp percentages for various zones from 0-30 to 0-180 degrees.

TOTAL LUMINAIRE EFFICIENCY: 74.5%
TOTAL REFLECTANCE OF PAINT: 90.4%
CIE TYPE: GENERAL DIFFUSE
PLANE: 0-DEG 90-DEG 180-DEG
SPACING CRITERIA: 1.4 1.2 1.0



TESTED BY HERSCHEL SCHRECK
CHECKED BY MIKE GRATHER



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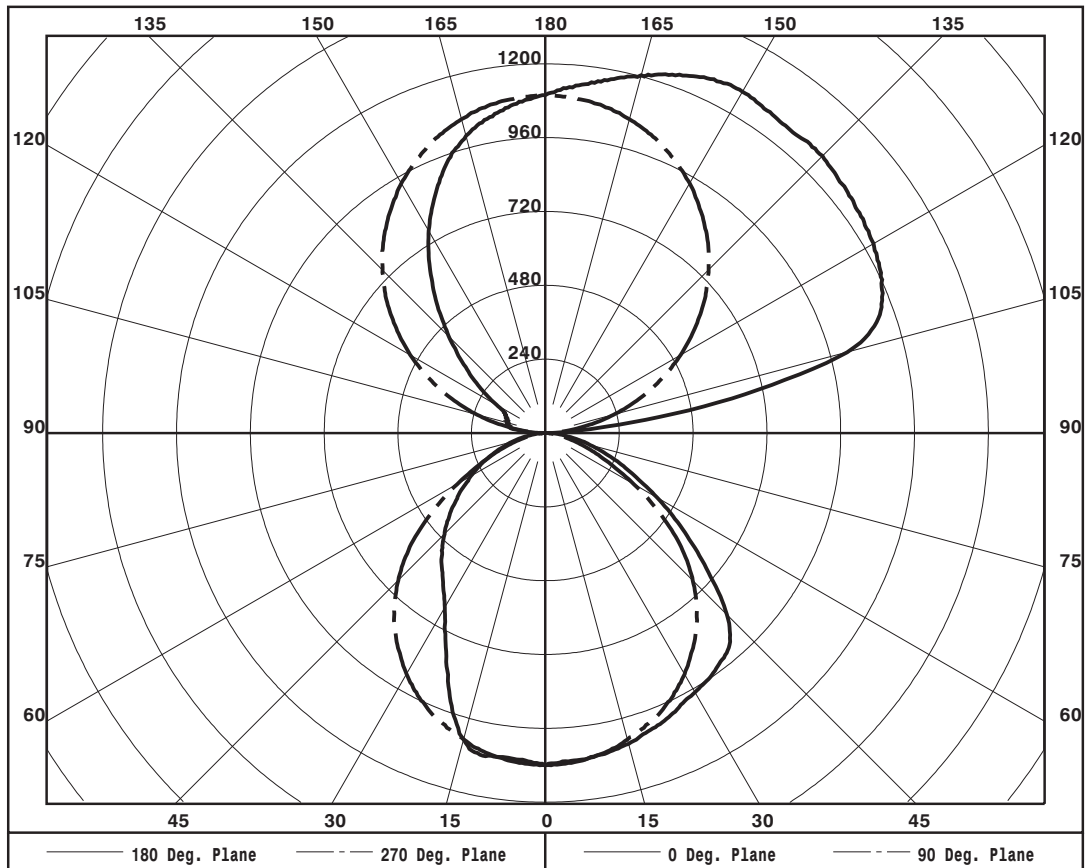
ZONAL LUMEN SUMMARY

Table with 2 columns: Zonal Range and Lumen Value. Rows range from 0-5 to 175-180.

Table with 3 columns: PLANE, LUMINOUS LENGTH, HEIGHT OF SIDE. Values for 0-DEG and 90-DEG.

LUMINANCE IN CANDELA PER SQUARE METER

Table with 4 columns: ANGLE IN DEG, AVERAGE 0-DEG, AVERAGE 45-DEG, AVERAGE 90-DEG. Values for angles 0, 45, 55, 65, 75, 85.







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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	78	78	78	78	71	71	71	71	58	58	58	47	47	47	36	36	36	31
1	72	69	66	63	65	63	60	58	52	50	49	42	40	40	32	32	31	27
2	66	60	56	52	60	55	52	48	46	43	41	37	35	34	29	28	27	23
3	60	53	48	44	55	49	45	41	41	37	35	33	31	29	26	24	23	20
4	55	47	42	37	50	43	39	35	36	33	30	29	27	25	23	21	20	17
5	50	42	36	32	46	39	34	30	32	28	25	26	23	21	21	19	17	15
6	46	38	32	28	42	35	29	26	29	25	22	24	21	19	19	17	15	13
7	43	34	28	24	39	31	26	22	26	22	19	21	18	16	17	15	13	11
8	39	30	25	21	36	28	23	19	23	20	17	19	16	14	15	13	12	10
9	36	27	22	18	33	25	20	17	21	17	15	17	14	12	14	12	10	8
10	34	25	20	16	31	23	18	15	19	16	13	16	13	11	13	10	9	7

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.



LUMINAIRE TESTING LABORATORY, INC.



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INITIAL ILLUMINATION OF 50 FOOTCANDLES USING LTL TEST NUMBER 08364  
 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.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3
10.	15.	2	2	2	3	2	2	2	3	2	3	3	3	2	3	3	4
15.	20.	3	3	4	4	3	4	4	4	3	4	4	5	4	4	5	5
15.	30.	4	5	5	5	5	5	5	6	5	5	6	6	5	6	6	7
20.	20.	4	4	5	5	4	4	5	5	4	5	5	6	5	5	6	6
20.	30.	6	6	6	7	6	6	7	7	6	6	7	8	6	7	8	9
20.	40.	7	8	8	9	7	8	9	9	8	8	9	10	8	9	10	11
20.	60.	10	11	12	12	11	11	12	13	11	12	13	14	12	13	14	15
30.	30.	8	8	9	9	8	9	9	10	8	9	10	10	9	10	11	11
30.	40.	10	11	12	12	10	11	12	13	11	11	12	13	11	12	13	14
30.	50.	12	13	14	15	13	13	15	15	13	14	15	16	14	15	16	17
30.	60.	15	15	17	17	15	16	17	18	15	16	18	19	16	17	19	20
60.	60.	28	29	32	32	29	30	32	33	29	30	33	34	30	32	34	36
60.	80.	37	38	42	42	38	39	42	43	38	40	43	45	39	41	45	47
60.	100.	46	47	52	52	47	48	52	54	47	49	53	55	48	51	55	57
100.	100.	76	77	84	85	76	78	85	87	77	79	86	88	78	81	89	91

QUANTITY OF LUMINAIRES