



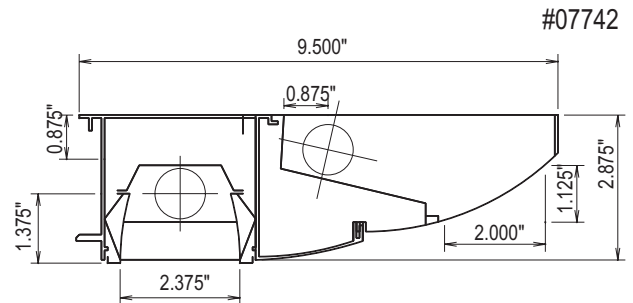
LTL NUMBER: 07742 DATE: 11-03-2003
PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING
CATALOG NUMBER: LMPI/D02-PH-SE-WR-4-W-PB-F01M-120-T8/T8
LUMINAIRE: EXTRUDED ALUMINUM HOUSING WITH PERFORATED SECTION AND TRANSLUCENT WHITE ACRYLIC INSERT, FORMED WHITE ENAMEL ALUMINUM REFLECTORS, 32 CELL, 3/4" DEEP, FORMED SEMI-SPECULAR ALUMINUM LOUVER, OPEN TOP.
LAMPS: TWO 32 WATT T8 LINEAR FLUORESCENT LAMPS RATED AT 2850 LUMENS EACH.
LAMP CATALOG NUMBER: PHILIPS F32T8/TL841
BALLASTS: ONE ADVANCE REL-1P32-SC AND ONE ENERGY SAVINGS ES-2/1-T8-32/25/17/15-UNV-A-IS
NOTE: THIS TEST WAS CALCULATED USING MEASURED DATA FROM LTL TEST NUMBERS 06295 AND 07740.

MOUNTING: WALL
LUMEN TO CANDELA RATIO USED = 9.18
TOTAL INPUT WATTS = 61.7 AT 120.0 VOLTS
THE 0 DEGREE PLANE IS PERPENDICULAR TO THE LAMPS.

Table with columns: CANDELA DISTRIBUTION (0.0 to 180.0) and FLUX (69 to 3937). Rows represent beam angles from 0 to 180 degrees.

ZONAL LUMEN SUMMARY table with columns: ZONE, LUMENS, %LAMP, %FIXT. Rows show lumen distribution for zones from 0-30 to 0-180.

TOTAL LUMINAIRE EFFICIENCY: 69.1%
TOTAL REFLECTANCE OF PAINT: 90.4%
CIE TYPE: GENERAL DIFFUSE
PLANE: 0-DEG 90-DEG 180-DEG
SPACING CRITERIA: 1.4 1.2 1.4
SHIELDING ANGLES: 33 27



TESTED BY HERSCHEL SCHRECK
CHECKED BY MIKE GRATHER



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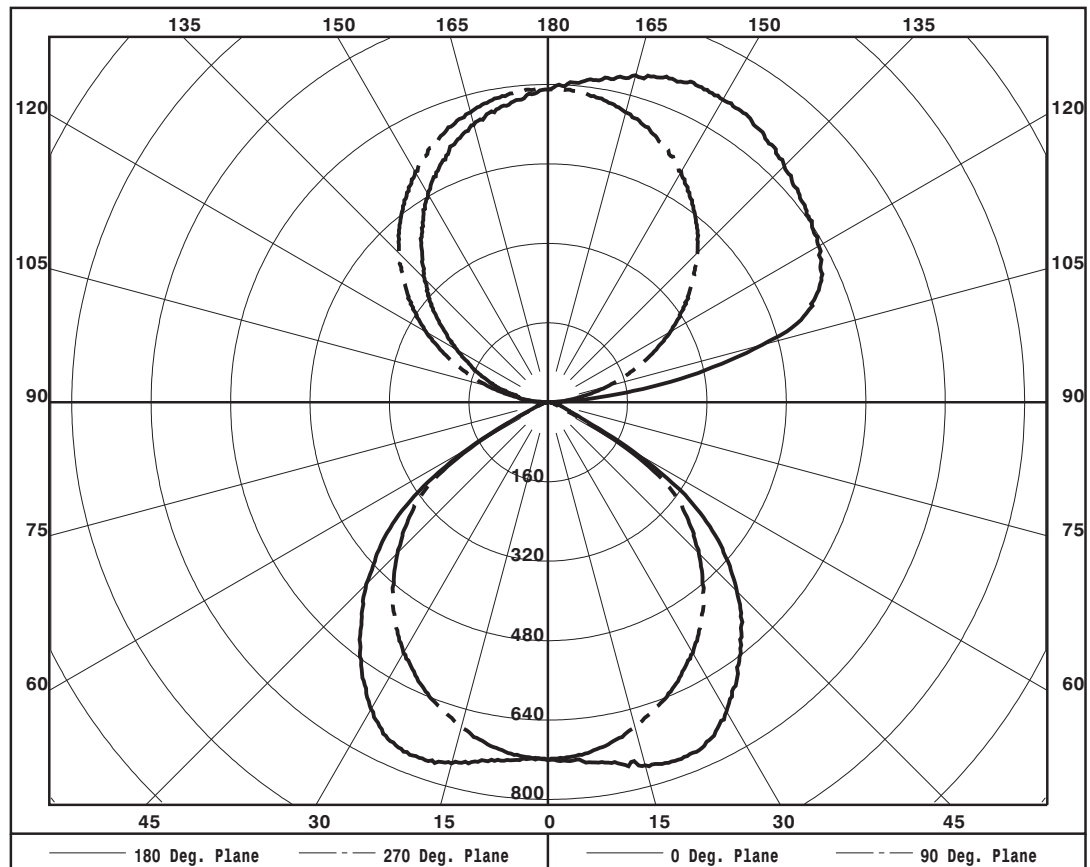
ZONAL LUMEN SUMMARY

0- 5	17.
5- 10	52.
10- 15	85.
15- 20	118.
20- 25	147.
25- 30	172.
30- 35	188.
35- 40	196.
40- 45	194.
45- 50	182.
50- 55	161.
55- 60	121.
60- 65	61.
65- 70	22.
70- 75	11.
75- 80	7.
80- 85	6.
85- 90	3.
90- 95	12.
95-100	58.
100-105	100.
105-110	132.
110-115	151.
115-120	166.
120-125	176.
125-130	183.
130-135	185.
135-140	183.
140-145	176.
145-150	164.
150-155	146.
155-160	125.
160-165	101.
165-170	74.
170-175	45.
175-180	15.

PLANE:	0-DEG	90-DEG
LUMINOUS LENGTH:	4.375	47.750
HEIGHT OF SIDE:	1.125	0.000

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	6562.	6562.	6562.
45	4451.	4601.	5535.
55	3140.	3313.	4729.
65	698.	1122.	991.
75	286.	299.	422.
85	213.	171.	522.





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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	73	73	73	73	67	67	67	67	55	55	55	45	45	45	35	35	35	31
1	67	65	62	60	62	60	58	56	50	48	47	41	40	39	32	32	31	27
2	62	58	54	51	57	53	50	47	45	42	40	37	35	34	29	28	28	24
3	57	51	47	43	52	47	43	40	40	37	35	33	31	29	27	25	24	21
4	53	46	41	37	48	42	38	35	36	33	30	30	28	26	24	23	21	19
5	48	41	36	32	44	38	33	30	32	29	26	27	24	22	22	20	19	17
6	44	37	31	27	41	34	29	26	29	25	23	24	22	20	20	18	17	15
7	41	33	28	24	37	30	26	23	26	22	20	22	19	17	18	16	15	13
8	38	29	24	21	35	27	23	20	23	20	17	20	17	15	16	14	13	11
9	35	27	21	18	32	25	20	17	21	17	15	18	15	13	14	12	11	9
10	32	24	19	16	30	22	18	15	19	16	13	16	13	11	13	11	10	8

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.



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INITIAL ILLUMINATION OF 50 FOOTCANDLES USING LTL TEST NUMBER 07742
LUMINAIRE SUSPENSION LENGTH = 1.5
WORKING PLANE HEIGHT = 2.50
FLOOR REFLECTANCE = 20

Table with columns for ROOM HT, CEIL RF, WALL RF, WIDTH, and LENGTH, and rows for room dimensions (10, 15, 20, 30, 60, 100) and reflectance values (80, 70).

QUANTITY OF LUMINAIRES