



LTL NUMBER: 07110

DATE: 11-22-2002

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: AR9300 1LP-D/I-4-WM-OP/PB-X-120-T8

LUMINAIRE: EXTRUDED ALUMINUM HOUSING, FORMED SPECULAR ALUMINUM REFLECTORS BESIDE LAMP, 12 CELL, 1 1/2" DEEP, FORMED SEMI-SPECULAR ALUMINUM LOUVER BELOW LAMP, OPEN TOP.

LAMP: ONE PHILIPS F32T8/TL841 RATED AT 2850 LUMENS.

BALLAST: ONE ADVANCE REL-1P32-SC

MOUNTING: WALL

LUMEN TO CANDELA RATIO USED = 9.18

TOTAL INPUT WATTS = 32.3 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PERPENDICULAR TO THE LAMPS.

CANDELA DISTRIBUTION

FLUX

Table with 11 columns: 0.0, 22.5, 45.0, 67.5, 90.0, 112.5, 135.0, 157.5, 180.0, and FLUX. It contains candela values for various angles from 0 to 180 degrees.

ZONAL LUMEN SUMMARY

Table with 4 columns: ZONE, LUMENS, %LAMP, and %FIXT. It summarizes lumen and fixture percentages across different zones.

TOTAL LUMINAIRE EFFICIENCY: 83.6%

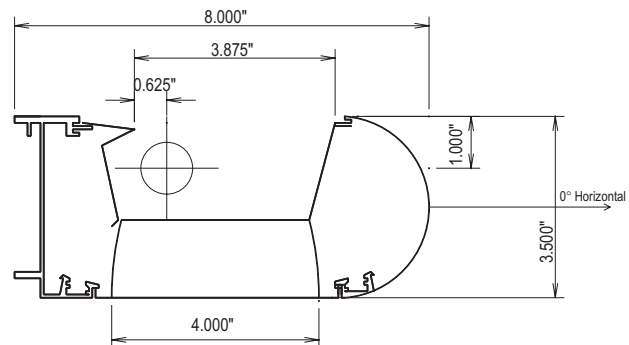
CIE TYPE: GENERAL DIFFUSE

PLANE: 0-DEG 90-DEG 180-DEG

SPACING CRITERIA: 1.5 1.2 0.7

SHIELDING ANGLES: 32 21 65

#07110



TESTED BY HERSCHEL SCHRECK
CHECKED BY MIKE GRATHER



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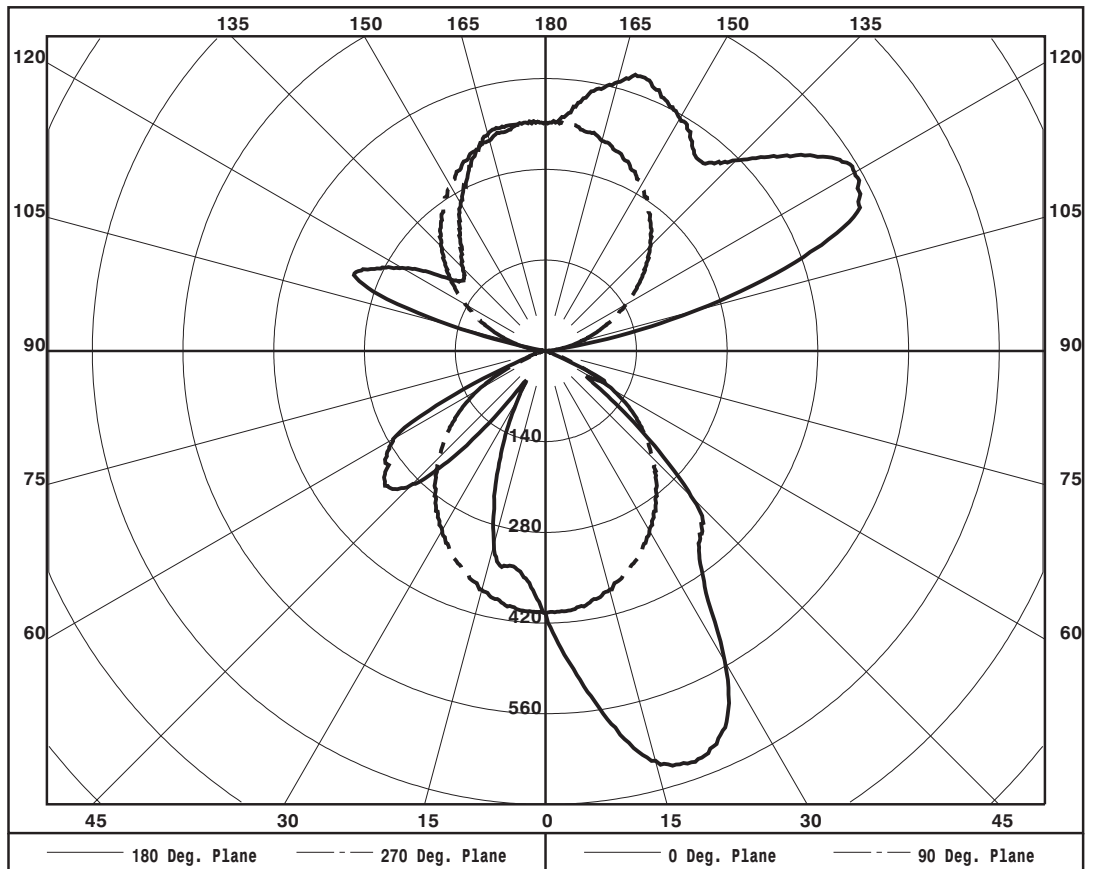
ZONAL LUMEN SUMMARY

0- 5	10.
5- 10	30.
10- 15	52.
15- 20	72.
20- 25	87.
25- 30	96.
30- 35	96.
35- 40	95.
40- 45	98.
45- 50	98.
50- 55	91.
55- 60	74.
60- 65	56.
65- 70	23.
70- 75	7.
75- 80	4.
80- 85	3.
85- 90	1.
90- 95	2.
95-100	21.
100-105	70.
105-110	115.
110-115	132.
115-120	127.
120-125	117.
125-130	108.
130-135	104.
135-140	102.
140-145	99.
145-150	95.
150-155	87.
155-160	75.
160-165	60.
165-170	43.
170-175	26.
175-180	8.

PLANE: 0-DEG 90-DEG
 LUMINOUS LENGTH: 4.000 48.000

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	3277.	3277.	3277.
45	3619.	3756.	2671.
55	1450.	3026.	2294.
65	1127.	1089.	1242.
75	250.	250.	281.
85	278.	278.	370.





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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

Table with columns for RC, RW, and various reflectance values (80, 70, 50, 30, 10, 0) for different cavity heights (0-10).

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 07110
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