



LTL NUMBER: 05816

DATE: 05-17-2001

PREPARED FOR: ALM ARCHITECTURAL LIGHTING

CATALOG NUMBER: ZB-24G-232-OCT-ELB-120V

LUMINAIRE: FORMED STEEL HOUSING, FORMED WHITE ENAMEL STEEL REFLECTOR, FORMED WHITE ENAMEL PERFORATED STEEL SHIELD WITH TRANSLUCENT WHITE ACRYLIC INSERT BELOW LAMPS.

LAMPS: TWO PHILIPS F32T8/TL741 RATED AT 2850 LUMENS EACH.

BALLAST: ONE ADVANCE REL-2P32-SC

MOUNTING: RECESSED

LUMEN TO CANDELA RATIO USED = 9.18

TOTAL INPUT WATTS = 56.6 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

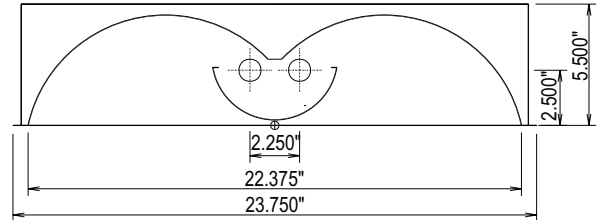
#05816

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	1230	1230	1230	1230	1230
5	1218	1220	1226	1227	1231
15	1170	1179	1191	1203	1209
25	1079	1096	1127	1155	1166
35	946	978	1032	1076	1093
45	778	827	904	966	992
55	587	652	751	824	855
65	385	461	568	634	654
75	205	267	313	314	329
85	51	57	68	72	72
90	0	0	0	0	0

FLUX

117
337
519
643
692
660
539
307
76



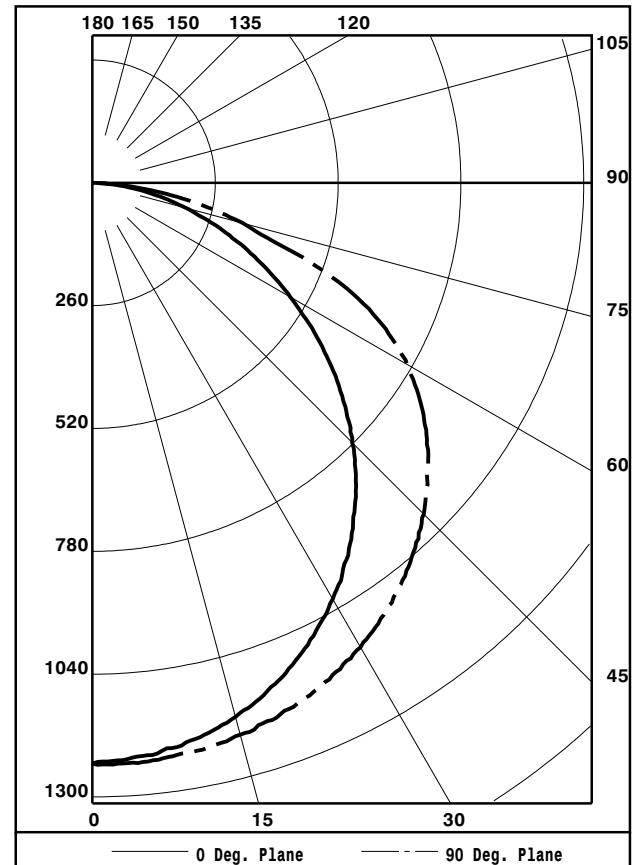
ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	972	17.1	25.0
0- 40	1615	28.3	41.5
0- 60	2966	52.0	76.3
0- 90	3888	68.2	100.0
90-180	0	0.0	0.0
0-180	3888	68.2	100.0

TOTAL LUMINAIRE EFFICIENCY: 68.2%
 TOTAL REFLECTANCE OF PAINT: 89.8%
 CIE TYPE: DIRECT
 PLANE: 0-DEG 90-DEG
 SPACING CRITERIA: 1.2 1.4
 LUMINOUS LENGTH: 47.000 22.375

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	1813.	1813.	1813.
45	1622.	1884.	2068.
55	1508.	1930.	2197.
65	1343.	1981.	2281.
75	1167.	1782.	1873.
85	862.	1150.	1218.



TESTED BY HERSCHEL SCHRECK
 CHECKED BY MIKE GRATHER



LTL NUMBER: 05816

DATE: 05-17-2001

PREPARED FOR: ALM ARCHITECTURAL LIGHTING

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD
EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

Table with columns RC, RW, and rows for cavity heights 80, 70, 50, 30, 10, 0. Each row contains 18 numerical values representing utilization coefficients.

CANDELA DISTRIBUTION

Table with 6 columns representing candela values at angles 0.0, 22.5, 45.0, 67.5, 90.0 degrees. Rows represent angles from 0 to 90 degrees.

ZONAL LUMEN SUMMARY

Table with 3 columns representing zonal lumen values for height ranges from 0-5 to 85-90.

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.



LTL NUMBER: 05816

DATE: 05-17-2001

PREPARED FOR: ALM ARCHITECTURAL LIGHTING

VISUAL COMFORT PROBABILITY TABLE

RATED LUMENS PER LAMP 2850.

100. FC. REFLECTANCES 80/50/20
ROOM LUMINAIRES 0 DEG PLANE

LUMINAIRES 90 DEG PLANE

Table with columns for Room Dimensions (W, L) and Reflectance values (8.5, 10.0, 13.0, 16.0) for 0 and 90 degree planes.