



LTL NUMBER: 07853
PREPARED FOR: SIM-KAR LIGHTING
CATALOG NUMBER: ADJUST-432

DATE: 12-16-2003

LUMINAIRE: FORMED STEEL HOUSING WITH CAST ALUMINUM ENDS, FORMED SPECULAR ALUMINUM REFLECTORS, NO ENCLOSURE. LAMPS IN HIGH POSITION.

LAMPS: SIX 32 WATT T8 LINEAR FLUORESCENT LAMPS RATED AT 2850 LUMENS EACH.

LAMP CATALOG NUMBER: PHILIPS F32T8/TL841

BALLAST: ONE MAGNETEK B232I120RH AND ONE ADVANCE REL-4P32-RH-TP

LER: 83.1 BASED ON A MEASURED BALLAST FACTOR OF 84.9%

NOTE: THIS TEST WAS PRORATED FROM LTL TEST NUMBER 07827 TO SIMULATE A FOUR LAMP T8 LINEAR FLUORESCENT LUMINAIRE.

MOUNTING: PENDENT

LUMEN TO CANDELA RATIO USED = 9.18

TOTAL AS TESTED INPUT WATTS =164.0 AT 120.0 VOLTS

TOTAL PRORATED INPUT WATTS = 109.3 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

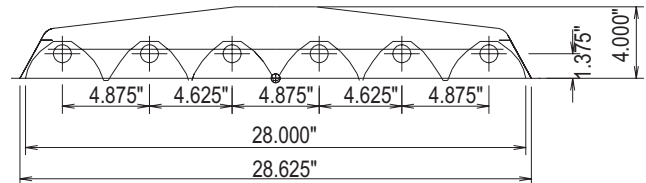
#07853

CANDELA DISTRIBUTION

Table with 6 columns: Angle (0, 5, 15, 25, 35, 45, 55, 65, 75, 85, 90) and 6 rows of Candela values.

FLUX

Table with 6 columns: Angle (0, 5, 15, 25, 35, 45, 55, 65, 75, 85, 90) and 6 rows of Flux values.



ZONAL LUMEN SUMMARY

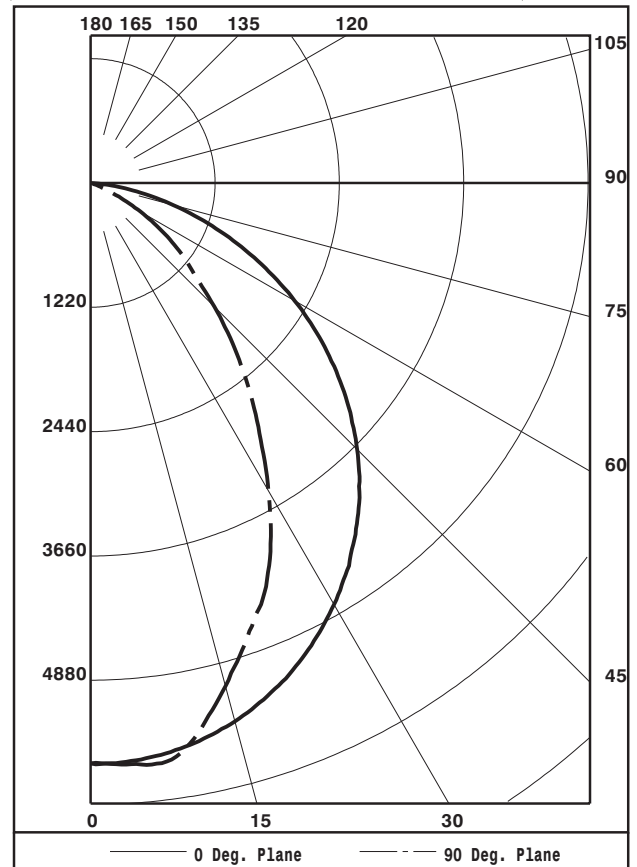
Table with 5 columns: Zone, Lumens, %LAMP, %FIXT, and values for various zones (0-30, 0-40, 0-60, 0-90, 90-180, 0-180).

TOTAL LUMINAIRE EFFICIENCY: 93.9%

CIE TYPE: DIRECT
PLANE: 0-DEG 90-DEG
SPACING CRITERIA: 1.2 1.0
LUMINOUS LENGTH: 48.125 28.625

LUMINANCE IN CANDELA PER SQUARE METER

Table with 4 columns: Angle (0, 45, 55, 65, 75, 85) and 3 rows of Average values for 0-DEG, 45-DEG, and 90-DEG planes.



TESTED BY HERSCHEL SCHRECK
CHECKED BY MIKE GRATHER



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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 15 numerical values representing utilization coefficients.

CANDELA DISTRIBUTION

Table with 6 columns representing candela values at different angles (0.0, 22.5, 45.0, 67.5, 90.0) for various heights (0 to 90).

ZONAL LUMEN SUMMARY

Table with 3 columns representing lumen values for different height zones (0-5, 5-10, etc.) up 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.