



LUMINAIRE TESTING LABORATORY, INC.

SUSTAINING MEMBER
of the
IESNA

905 Harrison Street · Allentown, PA 18103 · 610-770-1044 · Fax 610-770-8912 · www.LuminaireTesting.com

LTL NUMBER: 04983

DATE: 1-1-2000

PREPARED FOR: LUMINAIRE TESTING LABORATORY, INC.

CATALOG NUMBER: SAMPLE INDOOR TEST

LUMINAIRE: FORMED STEEL HOUSING, FORMED WHITE ENAMEL STEEL REFLECTOR, 16 CELL, 3" DEEP, FORMED SEMI-SPECULAR ALUMINUM LOUVER.

BALLAST: ONE MAGNETEK B232I120RH

LAMPS: TWO SYLVANIA FBO31/31K RATED AT 2800 LUMENS EACH

MOUNTING: RECESSED

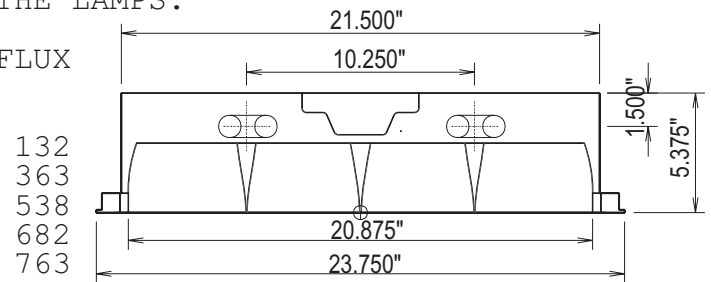
TOTAL INPUT WATTS = 54.7 AT 120.0 VOLTS
THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

#04983

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	1401	1401	1401	1401	1401
5	1399	1396	1393	1391	1390
15	1321	1313	1283	1267	1260
25	1198	1156	1124	1170	1199
35	1034	977	1050	1177	1252
45	803	789	979	1167	1277
55	508	557	706	823	921
65	82	103	123	107	97
75	18	20	21	21	21
85	0	0	0	0	0
90	0	0	0	0	0

FLUX



132
363
538
682
763
597
125
24
3

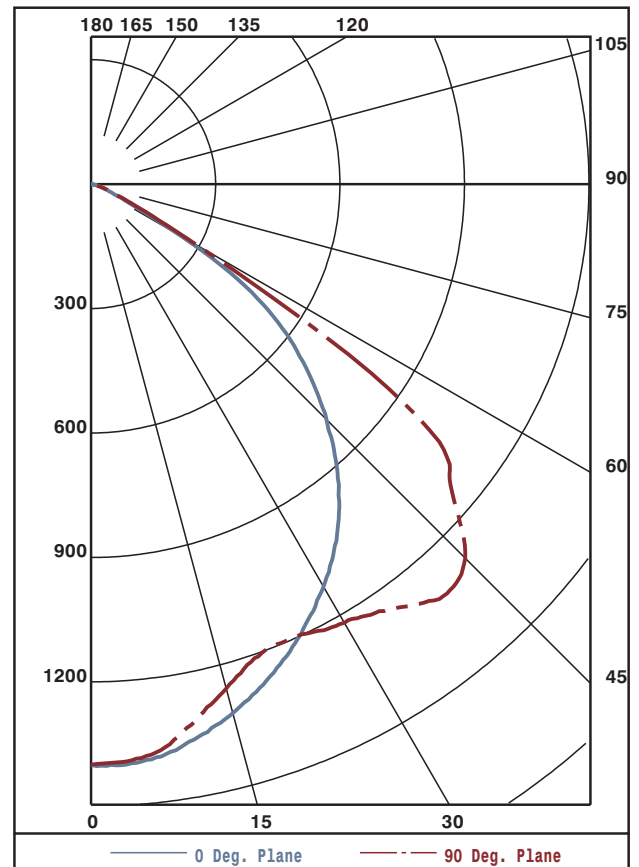
ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	1034	18.5	32.0
0- 40	1716	30.6	53.2
0- 60	3076	54.9	95.3
0- 90	3228	57.6	100.0
90-180	0	0.0	0.0
0-180	3228	57.6	100.0

TOTAL LUMINAIRE EFFICIENCY: 57.6%
 TOTAL REFLECTANCE OF PAINT: 92.4%
 CIE TYPE: DIRECT
 PLANE: 0-DEG 90-DEG
 SPACING CRITERIA: 1.2 1.4
 SHIELDING ANGLES: 30 35
 LUMINOUS LENGTH: 20.875 20.875

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	4983.	4983.	4983.
45	4039.	4924.	6423.
55	3150.	4378.	5711.
65	690.	1035.	816.
75	247.	289.	289.
85	0.	0.	0.



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 angles 80, 70, 50, 30, 10, 0. Each row contains 18 numerical values representing utilization coefficients.

CANDELA DISTRIBUTION

Table with 6 columns of candela values for angles from 0.0 to 90.0 in increments of 5 degrees.

ZONAL LUMEN SUMMARY

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

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.