



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: 09335

DATE: 10-26-2005

PREPARED FOR: ENERCON/HIBRITE INTERNATIONAL

CATALOG NUMBER: EF8-6

LUMINAIRE: FORMED STEEL HOUSING, FORMED SPECULAR ALUMINUM REFLECTOR,
NO ENCLOSURE.

LAMPS: SIX 32 WATT T8 LINEAR FLUORESCENT LAMPS RATED AT 2950 LUMENS
EACH.

LAMP CATALOG NUMBER: PHILIPS F32T8/TL850/PLUS/ALTO

BALLASTS: TWO ADVANCE ICN-4P32-SC

MOUNTING: PENDANT

LUMEN TO CANDELA RATIO USED = 9.18

TOTAL INPUT WATTS = 179.1 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

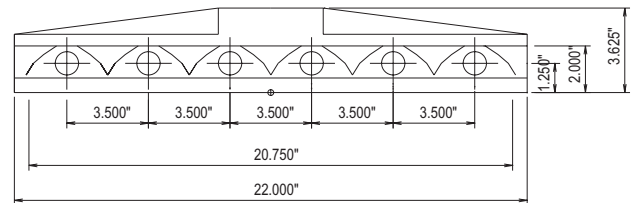
#09335

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	6935	6935	6935	6935	6935
5	6886	6917	6912	6904	6898
15	6636	6655	6505	6260	6164
25	6141	6043	5489	5262	5161
35	5420	5001	4478	4158	4050
45	4499	3912	3353	2968	2813
55	3423	2735	2144	2036	2022
65	2258	1586	1410	1429	1421
75	1090	719	757	788	799
85	143	183	211	224	230
90	0	0	0	0	0

FLUX

	656
15	1817
25	2584
35	2874
45	2679
55	2168
65	1549
75	854
85	231
90	0



ZONAL LUMEN SUMMARY

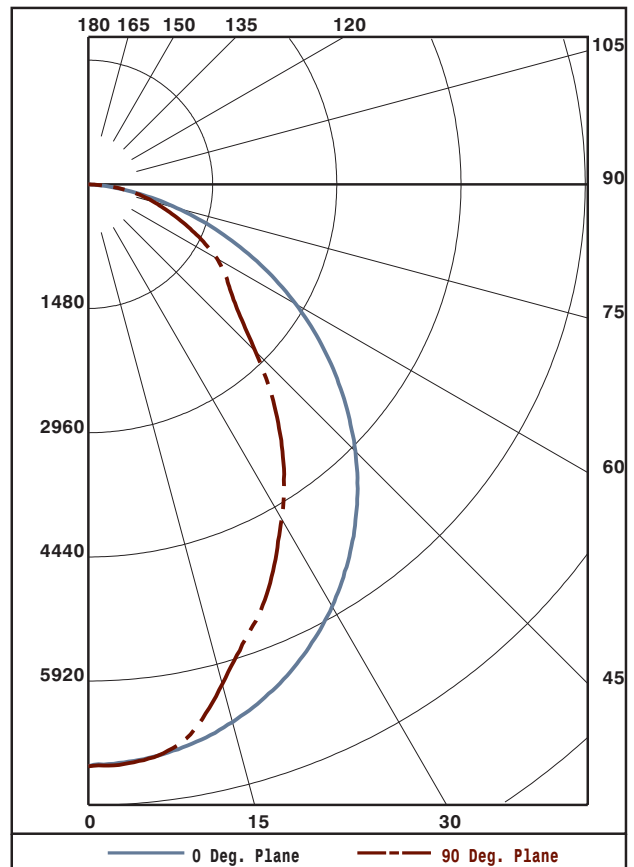
ZONE	LUMENS	%LAMP	%FIXT
0- 30	5058	28.6	32.8
0- 40	7932	44.8	51.5
0- 60	12779	72.2	82.9
0- 90	15413	87.1	100.0
90-180	0	0.0	0.0
0-180	15413	87.1	100.0

TOTAL LUMINAIRE EFFICIENCY: 87.1%

CIE TYPE: DIRECT
 PLANE: 0-DEG 90-DEG
 SPACING CRITERIA: 1.2 1.0
 LUMINOUS LENGTH: 48.000 20.750

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	10792.	10792.	10792.
45	9901.	7379.	6190.
55	9287.	5817.	5486.
65	8314.	5192.	5232.
75	6553.	4551.	4804.
85	2553.	3767.	4107.



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 angle has four sub-columns for different cavity dimensions.

CANDELA DISTRIBUTION

Table with 6 columns representing candela values at various angles from 0.0 to 90.0.

ZONAL LUMEN SUMMARY

Table with 3 columns representing lumen values for different zones 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.