



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

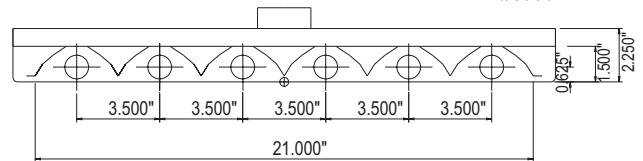
LTL NUMBER: 09301 DATE: 10-11-2005
 PREPARED FOR: ENERCON/HIBRITE INTERNATIONAL
 CATALOG NUMBER: HF8-6
 LUMINAIRE: FORMED STEEL HOUSING, FORMED SPECULAR ALUMINUM REFLECTOR,
 NO ENCLOSURE.
 LAMPS: SIX 32 WATT T8 LINEAR FLUORESCENT LAMPS RATED AT 2950 LUMENS
 EACH.
 LAMP CATALOG NUMBER: PHILIPS F32T8/TL850/PLUS/ALTO
 BALLASTS: TWO FULHAM WORKHORSE WH5-120-L
 MOUNTING: PENDANT
 LUMEN TO CANDELA RATIO USED = 9.18
 TOTAL INPUT WATTS = 205.0 AT 120.0 VOLTS
 THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	6883	6883	6883	6883	6883
5	6830	6866	6871	6883	6889
15	6583	6661	6603	6345	6249
25	6094	6127	5557	5325	5253
35	5386	5067	4594	4379	4294
45	4494	3938	3558	3210	3105
55	3463	2869	2360	2212	2204
65	2321	1681	1554	1708	1727
75	1154	800	956	1000	1029
85	173	237	294	330	344
90	4	8	17	30	35

FLUX

0	655
5	1829
15	2614
25	2955
35	2803
45	2303
55	1725
65	1017
75	315
85	
90	



ZONAL LUMEN SUMMARY

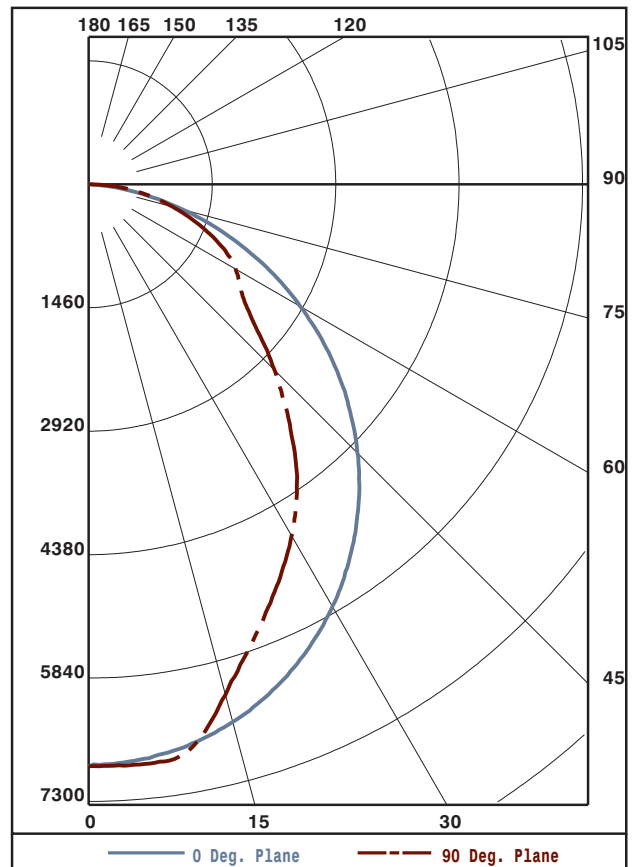
ZONE	LUMENS	%LAMP	%FIXT
0- 30	5098	28.8	31.4
0- 40	8053	45.5	49.7
0- 60	13159	74.3	81.1
0- 90	16215	91.6	100.0
90-180	0	0.0	0.0
0-180	16215	91.6	100.0

TOTAL LUMINAIRE EFFICIENCY: 91.6%

CIE TYPE: DIRECT
 PLANE: 0-DEG 90-DEG
 SPACING CRITERIA: 1.2 1.1
 LUMINOUS LENGTH: 47.125 21.000

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	10780.	10780.	10780.
45	9954.	7880.	6877.
55	9456.	6444.	6018.
65	8601.	5759.	6400.
75	6983.	5785.	6227.
85	3109.	5283.	6181.



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 sub-columns for 70, 50, 30, 10 degrees. Values range from 49 to 109.

CANDELA DISTRIBUTION

Table with columns for angles 0.0, 22.5, 45.0, 67.5, 90.0 and rows for angles 0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90. Values range from 4 to 6883.

ZONAL LUMEN SUMMARY

Table with columns for angle ranges (0-5, 5-10, etc.) and rows for ranges 0-5, 5-10, 10-15, 15-20, 20-25, 25-30, 30-35, 35-40, 40-45, 45-50, 50-55, 55-60, 60-65, 65-70, 70-75, 75-80, 80-85, 85-90. Values range from 71 to 165.

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.