



LTL NUMBER: 07956

DATE: 03-02-2004

PREPARED FOR: BRIGHTLINE

CATALOG NUMBER: FIX-TD2/CS-BF-B

LUMINAIRE: FORMED STEEL HOUSING, FORMED SPECULAR ALUMINUM REFLECTOR, FORMED BLACK ENAMEL 1/4" DEEP ALUMINUM HONEYCOMB BAFFLE. LUMINAIRE WAS AIMED 50 DEGREES ABOVE NADIR.

LAMPS: TWO 55 WATT T5 TWIN TUBE FLUORESCENT LAMPS RATED AT 3800 LUMENS EACH.

LAMP CATALOG NUMBER: OSRAM 55W/3200 STUDIOLINE

BALLASTS: ONE TRIDONIC PCA 2/54 T5HO EXCEL ONE4ALL

MOUNTING: RECESSED

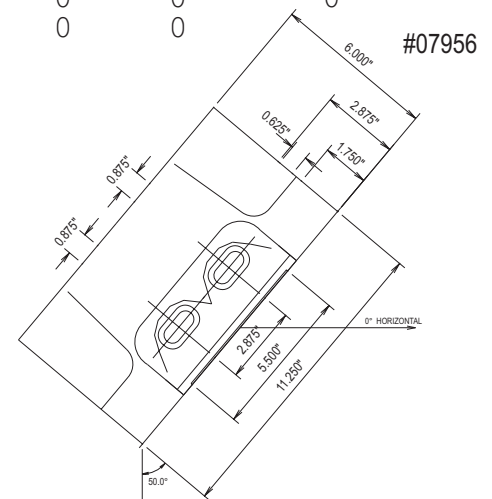
TOTAL INPUT WATTS = 94.6 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PERPENDICULAR TO THE LAMPS.

CANDELA DISTRIBUTION										FLUX
0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0		
0	38	38	38	38	38	38	38	38		
5	72	60	51	54	36	31	22	15	18	4
15	328	252	125	54	34	15	1	0	0	24
25	824	655	310	55	18	0	0	0	0	86
35	1349	1100	533	55	16	0	0	0	0	188
45	1660	1339	631	37	0	0	0	0	0	274
55	1693	1227	493	19	0	0	0	0	0	291
65	1358	1082	321	0	0	0	0	0	0	256
75	824	606	91	0	0	0	0	0	0	147
85	340	158	18	0	0	0	0	0	0	48
90	152	57	4	0	0	0	0	0	0	
95	63	34	0	0	0	0	0	0	0	10
105	12	6	0	0	0	0	0	0	0	2
115	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0

ZONAL ZONE	LUMEN SUMMARY LUMENS	%LAMP	%FIXT
0- 30	114	1.5	8.6
0- 40	303	4.0	22.8
0- 60	867	11.4	65.2
0- 90	1317	17.3	99.1
90-120	12	0.2	0.9
90-130	12	0.2	0.9
90-150	12	0.2	0.9
90-180	12	0.2	0.9
0-180	1330	17.5	100.0

TOTAL LUMINAIRE EFFICIENCY: 17.5%
CIE TYPE: DIRECT



TESTED BY HERSCHEL SCHRECK
CHECKED BY MIKE GRATHER



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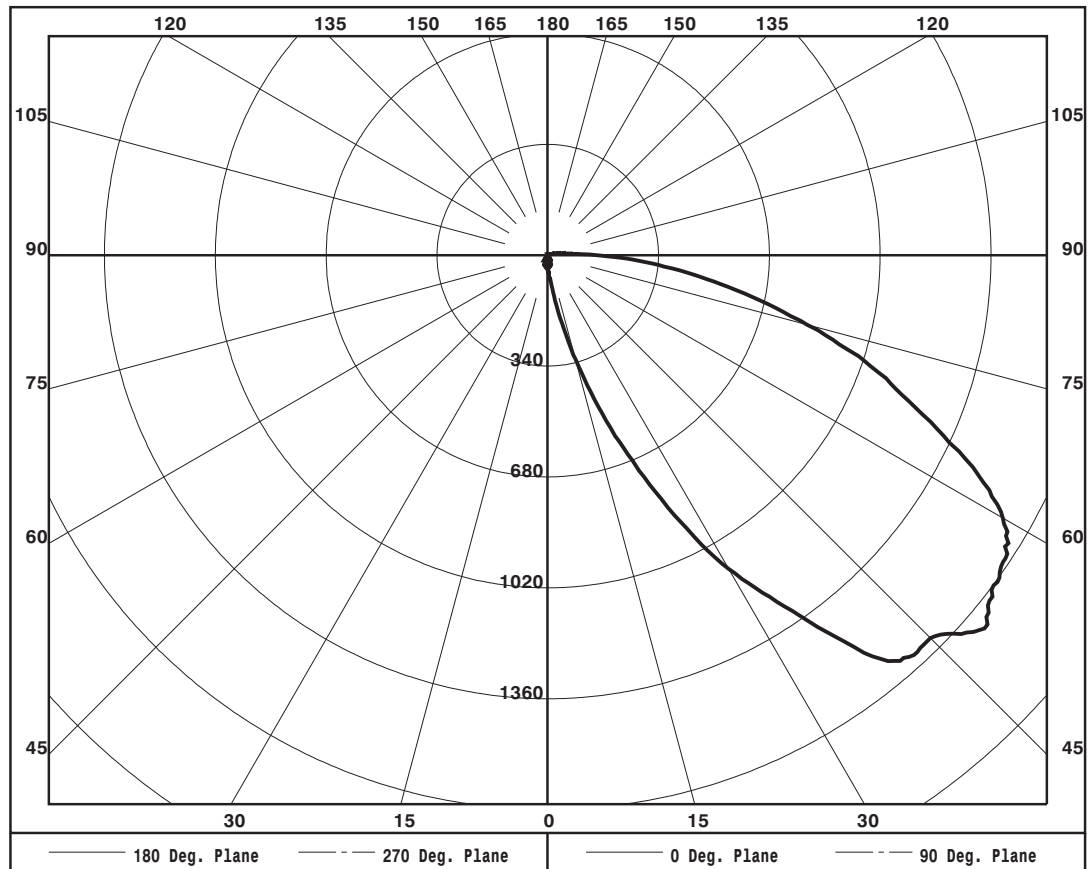
ZONAL LUMEN SUMMARY

Table with 2 columns: Zonal Range and Lumen Value. Rows range from 0-5 to 175-180.

Table with 4 columns: Parameter, 0-DEG, 90-DEG. Rows: PLANE, LUMINOUS LENGTH, HEIGHT OF SIDE.

LUMINANCE IN CANDELA PER SQUARE METER

Table with 5 columns: ANGLE IN DEG, AVERAGE 0-DEG, AVERAGE 45-DEG, AVERAGE 90-DEG. Rows: 0, 45, 55, 65, 75, 85.





LUMINAIRE TESTING LABORATORY, INC.



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CANDELA DISTRIBUTION

Table with 11 columns representing candela values (0.0 to 180.0) and 20 rows representing beam diameter values (0 to 180). The table shows the distribution of light intensity across different beam diameters.



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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

Table with columns RC, RW, and rows for ceiling heights 80, 70, 50, 30, 10, 0. Each row contains 15 numerical values representing utilization coefficients.

NOTE: THE ZONAL CAVITY CALCULATION TECHNIQUE IS ACCURATE WHEN LUMINAIRES WITH SYMMETRIC CANDELA DISTRIBUTIONS ARE EMPLOYED AND WHEN THE LUMINAIRES ARE LOCATED SYMMETRICALLY THROUGHOUT THE ROOM. THIS UNIT HAS SPECIAL CHARACTERISTICS AND THEREFORE THESE COEFFICIENTS SHOULD BE USED WITH CAUTION.

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.