



LTL NUMBER: 07959

DATE: 03-02-2004

PREPARED FOR: BRIGHTLINE

CATALOG NUMBER: FIX-TD2/LENS

LUMINAIRE: FORMED STEEL HOUSING, FORMED SPECULAR ALUMINUM REFLECTOR, CLEAR ACRYLIC PRISMATIC LENS.

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

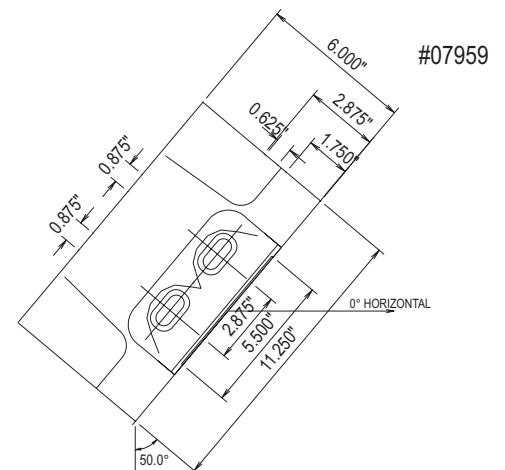
TOTAL INPUT WATTS = 83.7 AT 120.0 VOLTS

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	601	601	601	601	601	601	601	601	601	
5	779	752	714	651	588	542	503	472	475	58
15	1182	1102	951	740	549	409	321	282	278	182
25	1573	1457	1167	790	479	284	206	175	158	314
35	1794	1681	1318	790	388	182	131	81	54	432
45	1854	1735	1354	721	291	131	52	0	0	501
55	1851	1717	1296	603	237	93	0	0	0	543
65	1818	1630	1117	479	200	13	0	0	0	535
75	1606	1387	870	345	151	0	0	0	0	470
85	1221	1011	587	249	57	0	0	0	0	343
90	1006	827	457	219	4	0	0	0	0	
95	800	655	348	179	0	0	0	0	0	218
105	496	367	187	91	0	0	0	0	0	121
115	302	224	124	3	0	0	0	0	0	63
125	164	133	45	0	0	0	0	0	0	29
135	69	25	0	0	0	0	0	0	0	6
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	554	7.3	14.5
0- 40	986	13.0	25.8
0- 60	2030	26.7	53.2
0- 90	3378	44.4	88.6
90-120	401	5.3	10.5
90-130	430	5.7	11.3
90-150	436	5.7	11.4
90-180	436	5.7	11.4
0-180	3814	50.2	100.0

TOTAL LUMINAIRE EFFICIENCY: 50.2%  
 CIE TYPE: SEMI-DIRECT  
 PLANE: 0-DEG 90-DEG 180-DEG  
 SPACING CRITERIA: 3.1 1.1 0.4



TESTED BY HERSCHEL SCHRECK  
 CHECKED BY MIKE GRATHER



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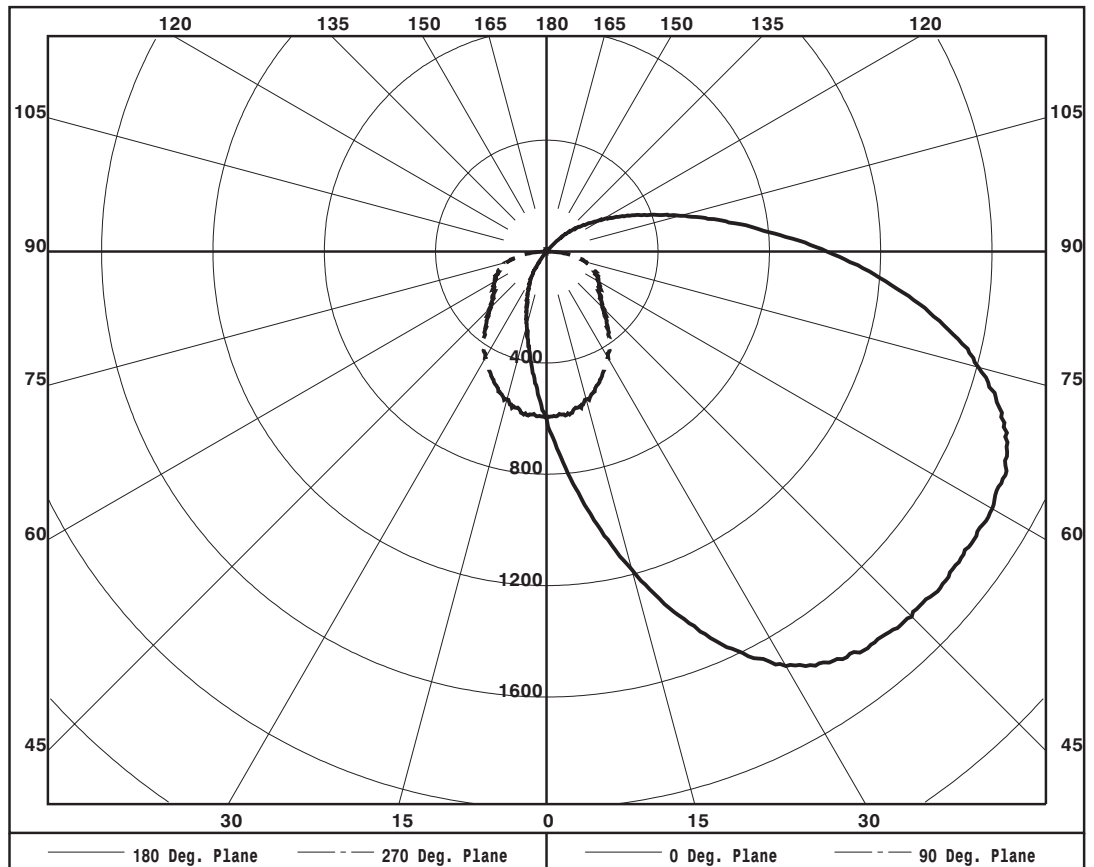
ZONAL LUMEN SUMMARY

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

Table with 3 columns: PLANE, LUMINOUS LENGTH, HEIGHT OF SIDE. Values for 0-DEG and 90-DEG.

LUMINANCE IN CANDELA PER SQUARE METER

Table with 4 columns: ANGLE IN DEG, AVERAGE 0-DEG, AVERAGE 45-DEG, AVERAGE 90-DEG. Rows for angles 0, 45, 55, 65, 75, 85.





LUMINAIRE TESTING LABORATORY, INC.



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CANDELA DISTRIBUTION

Table with 10 columns representing candela values at various angles (0.0 to 180.0) and 19 rows of data points.



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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	58	58	58	58	56	56	56	56	53	53	53	49	49	49	46	46	46	44
1	52	48	46	43	50	47	44	42	44	41	40	41	39	37	38	36	35	34
2	46	41	37	33	44	40	36	33	37	34	31	34	32	29	32	30	28	26
3	42	36	31	27	40	34	30	26	32	28	25	30	27	24	28	25	23	21
4	38	31	26	22	36	30	25	22	28	24	21	26	23	20	24	21	19	18
5	34	27	22	18	33	26	21	18	24	20	17	23	19	16	21	18	16	14
6	31	24	19	15	30	23	18	15	22	17	14	20	17	14	19	16	13	12
7	29	21	16	13	27	21	16	13	19	15	12	18	14	12	17	14	11	10
8	26	19	14	11	25	18	14	11	17	13	10	16	13	10	15	12	10	9
9	24	17	12	9	23	16	12	9	15	12	9	14	11	9	13	10	8	7
10	22	15	11	8	22	15	11	8	14	10	8	13	10	7	12	9	7	6

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.