



LTL NUMBER: 07955

DATE: 03-02-2004

PREPARED FOR: BRIGHTLINE

CATALOG NUMBER: FIX-TD2/CS-NF

LUMINAIRE: FORMED STEEL HOUSING, FORMED SPECULAR ALUMINUM REFLECTOR, FORMED SEMI-SPECULAR 3/4" 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

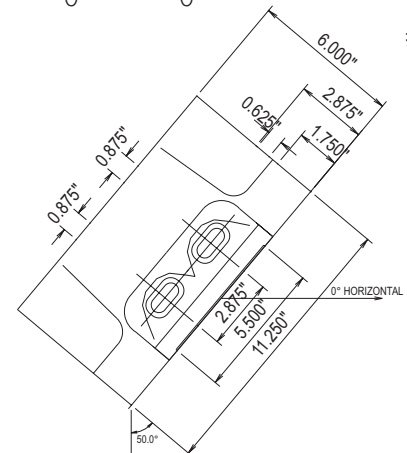
TOTAL INPUT WATTS = 92.8 AT 120.0 VOLTS

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	73	73	73	73	73	73	73	73	73	
5	93	90	88	73	70	54	54	52	51	6
15	191	170	127	90	51	34	28	16	18	22
25	400	319	191	112	55	22	18	6	3	53
35	923	539	230	104	42	21	0	0	0	110
45	1645	681	196	75	31	13	0	0	0	172
55	1669	593	118	40	18	0	0	0	0	177
65	931	396	78	15	1	0	0	0	0	121
75	409	255	67	13	0	0	0	0	0	73
85	194	148	48	6	0	0	0	0	0	41
90	137	112	31	0	0	0	0	0	0	
95	93	72	31	0	0	0	0	0	0	20
105	45	30	12	0	0	0	0	0	0	9
115	15	15	0	0	0	0	0	0	0	3
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 LUMEN SUMMARY	ZONE	LUMENS	%LAMP	%FIXT
0- 30		82	1.1	10.2
0- 40		192	2.5	23.8
0- 60		542	7.1	67.0
0- 90		777	10.2	96.0
90-120		32	0.4	4.0
90-130		32	0.4	4.0
90-150		32	0.4	4.0
90-180		32	0.4	4.0
0-180		810	10.7	100.0

TOTAL LUMINAIRE EFFICIENCY: 10.7%  
 CIE TYPE: DIRECT  
 PLANE: 0-DEG 90-DEG 180-DEG  
 SPACING CRITERIA: 5.0 1.0 0.3



#07955

TESTED BY HERSCHEL SCHRECK  
 CHECKED BY MIKE GRATHER



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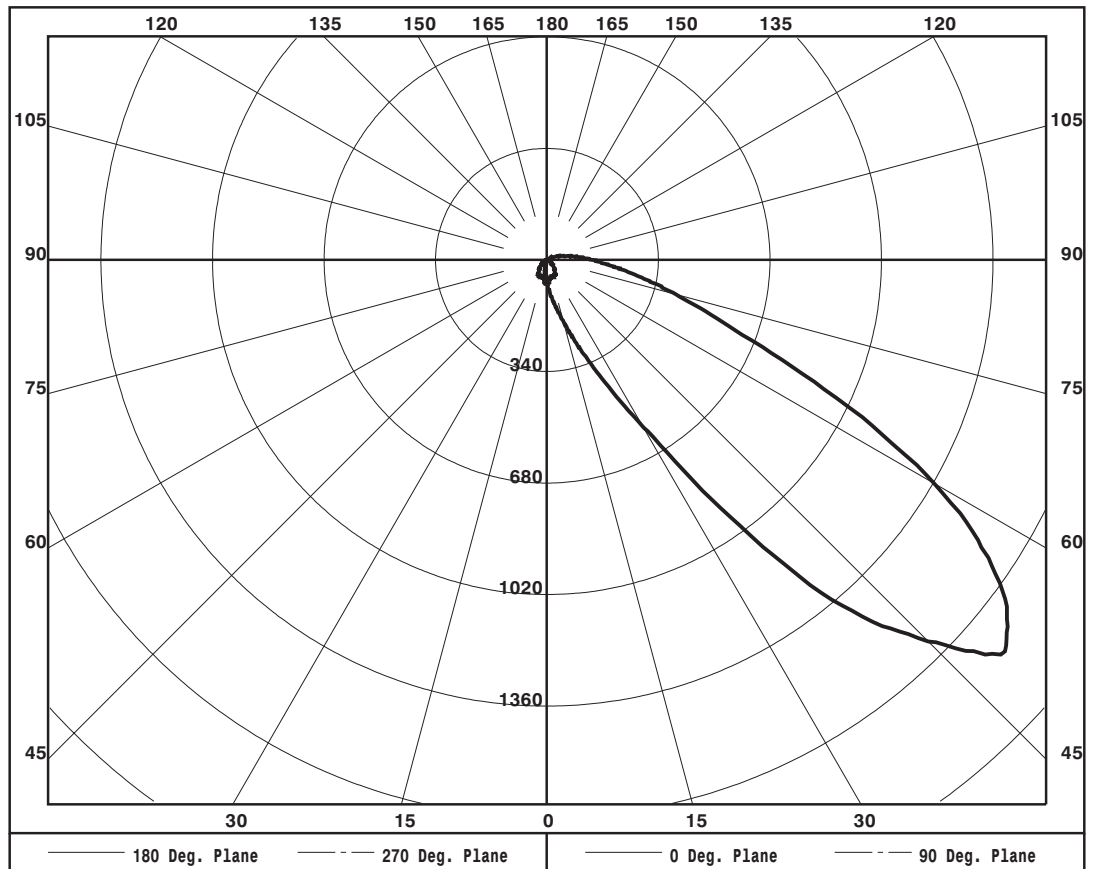
ZONAL LUMEN SUMMARY

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

Table with 4 columns: PLANE, LUMINOUS LENGTH, HEIGHT OF SIDE, and values for 0-DEG and 90-DEG.

LUMINANCE IN CANDELA PER SQUARE METER

Table with 5 columns: ANGLE IN DEG, AVERAGE 0-DEG, AVERAGE 45-DEG, AVERAGE 90-DEG. Rows show values 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 (0.0 to 180.0) and 20 rows representing distance values (0 to 180). The data shows a distribution that peaks at 40 units distance and then tapers off.



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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	13	13	13	13	12	12	12	12	12	12	12	11	11	11	10	10	10	10
1	11	11	10	10	11	10	10	9	10	9	9	9	9	9	9	9	8	8
2	10	9	8	8	10	9	8	7	8	8	7	8	7	7	8	7	7	7
3	9	8	7	6	9	8	7	6	7	7	6	7	6	6	7	6	6	5
4	8	7	6	5	8	7	6	5	6	5	5	6	5	5	6	5	5	4
5	7	6	5	4	7	6	5	4	5	5	4	5	4	4	5	4	4	3
6	7	5	4	3	6	5	4	3	5	4	3	4	4	3	4	4	3	3
7	6	4	3	3	6	4	3	3	4	3	3	4	3	3	4	3	2	2
8	5	4	3	2	5	4	3	2	4	3	2	3	3	2	3	3	2	2
9	5	3	2	2	5	3	2	2	3	2	2	3	2	2	3	2	2	1
10	5	3	2	1	4	3	2	1	3	2	1	3	2	1	3	2	1	1

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.