



LTL NUMBER: 07914

DATE: 02-06-2004

PREPARED FOR: BRIGHTLINE

CATALOG NUMBER: MTD2X-R-W1 FIX-TD2/CS-BF

LUMINAIRE: FORMED STEEL HOUSING, FORMED SPECULAR ALUMINUM REFLECTOR, FORMED SEMI-SPECULAR 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

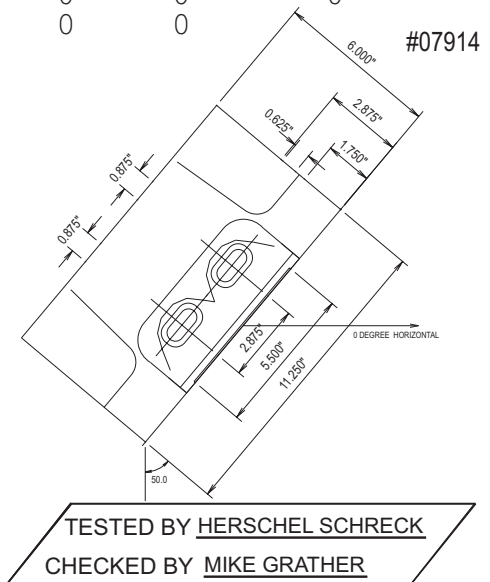
TOTAL INPUT WATTS = 94.3 AT 120.0 VOLTS

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	322	322	322	322	322	322	322	322	322	
5	455	436	407	365	317	274	242	219	222	31
15	817	746	614	464	336	228	149	114	111	111
25	1290	1144	851	518	327	166	92	55	38	221
35	1698	1455	980	522	264	101	34	16	18	334
45	1862	1539	956	476	187	55	16	0	0	402
55	1932	1389	816	384	118	23	0	0	0	418
65	1771	1357	678	277	63	3	0	0	0	402
75	1342	1065	511	174	28	0	0	0	0	326
85	884	715	373	102	12	0	0	0	0	223
90	651	541	290	67	1	0	0	0	0	
95	476	425	217	48	0	0	0	0	0	129
105	222	231	114	20	0	0	0	0	0	64
115	114	105	50	3	0	0	0	0	0	26
125	41	35	18	0	0	0	0	0	0	9
135	18	4	0	0	0	0	0	0	0	1
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 LUMENS	%LAMP	%FIXT
0- 30	364	4.8	13.5
0- 40	697	9.2	25.9
0- 60	1517	20.0	56.3
0- 90	2466	32.5	91.5
90-120	219	2.9	8.1
90-130	227	3.0	8.4
90-150	229	3.0	8.5
90-180	229	3.0	8.5
0-180	2695	35.5	100.0

TOTAL LUMINAIRE EFFICIENCY: 35.5%
 CIE TYPE: DIRECT
 PLANE: 0-DEG 90-DEG 180-DEG
 SPACING CRITERIA: 4.0 1.3 0.3





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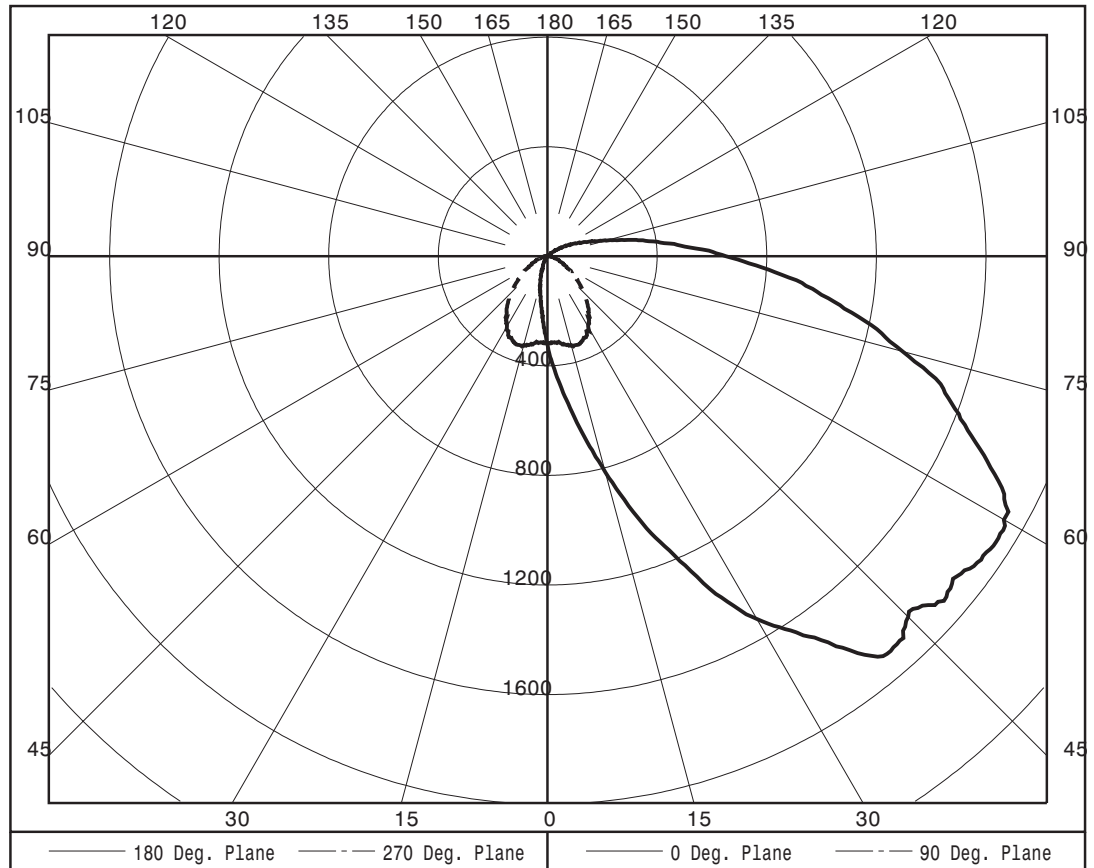
ZONAL LUMEN SUMMARY

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 at various angles (0.0 to 180.0) and 19 rows representing different beam diameters (0 to 180).



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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	42	42	42	42	40	40	40	40	38	38	38	36	36	36	33	33	33	32
1	37	35	33	31	35	34	32	30	31	30	29	29	28	27	28	27	26	25
2	33	29	26	24	32	28	26	23	27	24	22	25	23	21	23	22	21	20
3	30	25	22	19	28	25	21	19	23	20	18	22	19	18	20	18	17	16
4	27	22	19	16	26	21	18	16	20	17	15	19	16	14	18	16	14	13
5	24	19	16	13	23	18	15	13	17	14	12	16	14	12	15	13	11	10
6	22	17	13	11	21	16	13	11	15	12	10	14	12	10	14	11	10	9
7	20	15	11	9	19	14	11	9	14	11	9	13	10	8	12	10	8	7
8	19	13	10	8	18	13	10	7	12	9	7	11	9	7	11	8	7	6
9	17	12	9	6	16	11	8	6	11	8	6	10	8	6	10	7	6	5
10	16	11	8	5	15	10	7	5	10	7	5	9	7	5	9	6	5	4

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.