



LTL NUMBER: 07954

DATE: 03-02-2004

PREPARED FOR: BRIGHTLINE

CATALOG NUMBER: FIX-TD2/CS-MF

LUMINAIRE: FORMED STEEL HOUSING, FORMED SPECULAR ALUMINUM REFLECTOR, FORMED SEMI-SPECULAR 1/2" 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 = 93.9 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	160	160	160	160	160	160	160	160	160	
5	227	210	193	172	149	130	125	109	110	15
15	379	351	279	202	131	91	70	55	51	50
25	657	540	400	237	124	60	36	18	15	101
35	1236	824	442	230	97	33	18	0	0	180
45	1699	1058	384	172	67	18	0	0	0	245
55	1755	937	252	113	43	9	0	0	0	248
65	1236	685	185	57	19	0	0	0	0	196
75	654	490	161	37	0	0	0	0	0	135
85	376	318	109	15	0	0	0	0	0	86
90	296	236	88	15	0	0	0	0	0	
95	221	167	69	12	0	0	0	0	0	48
105	110	70	36	0	0	0	0	0	0	21
115	57	34	16	0	0	0	0	0	0	8
125	15	7	0	0	0	0	0	0	0	2
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

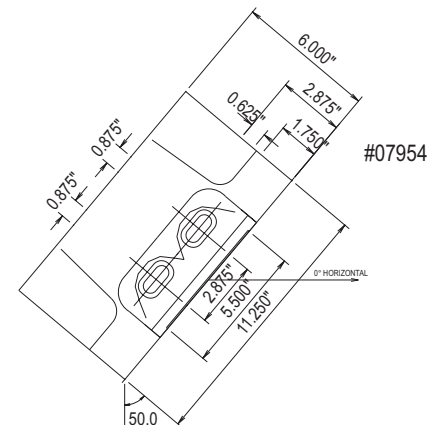
ZONE	LUMENS	%LAMP	%FIXT
0- 30	166	2.2	12.5
0- 40	346	4.6	26.0
0- 60	839	11.0	62.9
0- 90	1255	16.5	94.1
90-120	77	1.0	5.8
90-130	78	1.0	5.9
90-150	78	1.0	5.9
90-180	78	1.0	5.9
0-180	1334	17.5	100.0

TOTAL LUMINAIRE EFFICIENCY: 17.5%

CIE TYPE: DIRECT

PLANE: 0-DEG 90-DEG 180-DEG

SPACING CRITERIA: 4.5 1.0 0.3



TESTED BY HERSCHEL SCHRECK  
CHECKED BY MIKE GRATHER



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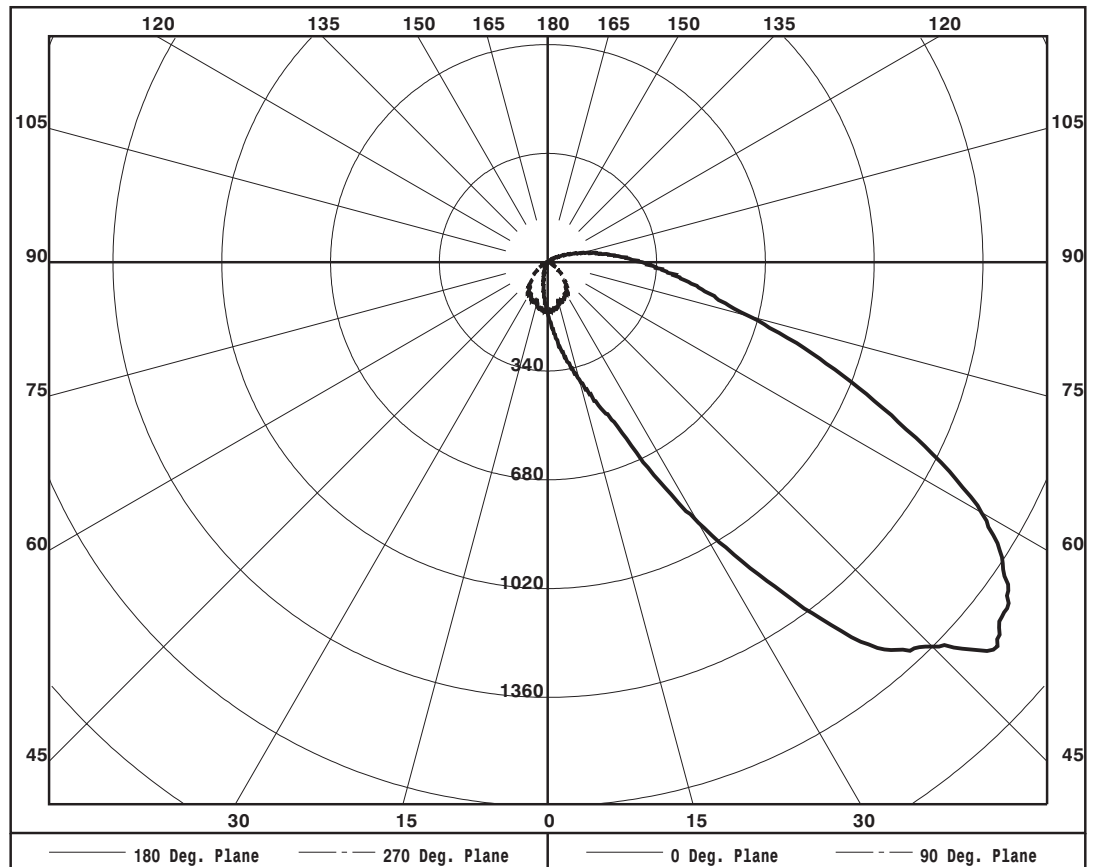
ZONAL LUMEN SUMMARY

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 different angles (0.0 to 180.0) and 20 rows representing distance values (0 to 180). The data shows a peak at 0 degrees and decreases as the angle increases.



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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

Table with columns RC, RW, and rows for utilization coefficients (0-10) across different reflectance levels (80, 70, 50, 30, 10, 0).

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.