



LTL NUMBER: 07840

DATE: 12-22-2003

PREPARED FOR: SIM-KAR LIGHTING

CATALOG NUMBER: ADJUST-654-A

LUMINAIRE: FORMED STEEL HOUSING WITH CAST ALUMINUM ENDS, FORMED SPECULAR ALUMINUM REFLECTORS WITH 42, 1/2" X 5" SLOTS ABOVE LAMPS, NO ENCLOSURE. LAMPS IN HIGH POSITION.

LAMPS: SIX 54 WATT HIGH OUTPUT T5 LINEAR FLUORESCENT LAMPS RATED AT 4400 LUMENS EACH.

LAMP CATALOG NUMBER: SYLVANIA FP54/841/HO

BALLAST: ONE MAGNETEK B254PUNV-D AND TWO ADVANCE ICN-2S54

LER: 82.8 BASED ON A MEASURED BALLAST FACTOR OF 123.9%

MOUNTING: PENDENT

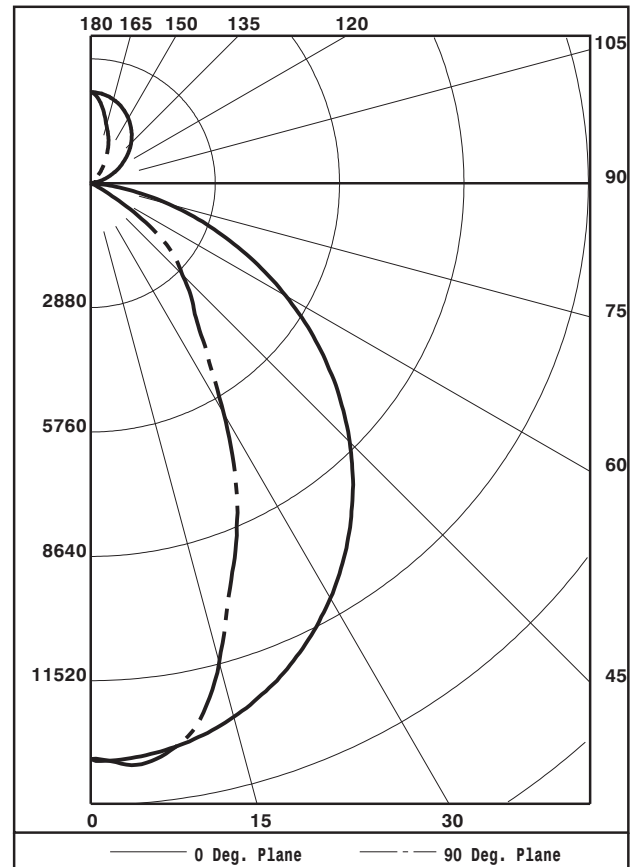
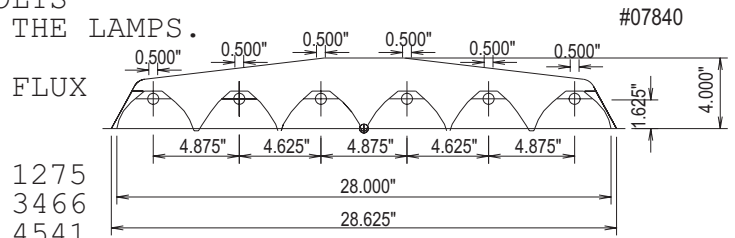
LUMEN TO CANDELA RATIO USED = 9.18

TOTAL INPUT WATTS =365.1 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	FLUX
0	13338	13338	13338	13338	13338	1275
5	13322	13352	13463	13516	13505	3466
15	12795	12965	12573	11846	11485	4541
25	11772	11622	9588	8433	8006	4432
35	10317	9152	6687	4983	4610	3677
45	8474	6372	3734	3195	3001	2591
55	6357	3662	2281	1807	1437	1162
65	4061	1661	752	127	37	376
75	1875	461	5	0	0	39
85	191	0	0	9	13	54
90	0	6	20	34	38	94
95	25	28	50	71	83	171
105	263	46	64	81	86	284
115	614	164	87	93	94	432
125	971	450	147	121	112	558
135	1316	787	433	246	190	584
145	1608	1117	790	592	527	464
155	1844	1499	1173	1011	949	189
165	2011	1847	1607	1439	1393	
175	2096	2063	2021	1986	1968	
180	2097	2097	2097	2097	2097	



ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	9283	35.2	38.1
0- 40	13714	51.9	56.2
0- 60	19983	75.7	81.9
0- 90	21560	81.7	88.4
90-120	319	1.2	1.3
90-130	603	2.3	2.5
90-150	1592	6.0	6.5
90-180	2830	10.7	11.6
0-180	24389	92.4	100.0

TOTAL LUMINAIRE EFFICIENCY: 92.4%

CIE TYPE: SEMI-DIRECT

PLANE: 0-DEG 90-DEG

SPACING CRITERIA: 1.2 0.9

TESTED BY HERSCHEL SCHRECK
CHECKED BY MIKE GRATHER



LUMINAIRE TESTING LABORATORY, INC.



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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD
EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

Table with 11 columns (RC, RW, 80, 70, 50, 30, 10, 0) and 11 rows (0-10) showing utilization coefficients.

PLANE: 0-DEG 90-DEG
LUMINOUS LENGTH: 48.125 28.625

Table with 4 columns (ANGLE IN DEG, AVERAGE 0-DEG, AVERAGE 45-DEG, AVERAGE 90-DEG) and 6 rows (0, 45, 55, 65, 75, 85) showing luminance values.



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CANDELA DISTRIBUTION

Table with 6 columns representing candela values at various angles (0.0, 22.5, 45.0, 67.5, 90.0) for beam diameters from 0 to 180.

ZONAL LUMEN SUMMARY

Table with 2 columns representing beam diameter ranges (e.g., 0-5, 5-10) and their corresponding total lumens.

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.