



905 Harrison Street · Allentown, PA 18103 · (610) 770-1044 · Fax (610) 770-8912 · www.LuminaireTesting.com

LTL NUMBER: 07859

DATE: 12-17-2003

PREPARED FOR: SIM-KAR LIGHTING

CATALOG NUMBER: ADJUST 432-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 MEDIUM POSITION.

LAMPS: SIX 32 WATT T8 LINEAR FLUORESCENT LAMPS RATED AT 2850 LUMENS EACH.

LAMP CATALOG NUMBER: PHILIPS F32T8/TL841

BALLAST: ONE MAGNETEK B232I120RH AND ONE ADVANCE REL-4P32-RH-TP

LER: 82.3 BASED ON A MEASURED BALLAST FACTOR OF 84.9%

NOTE: THIS TEST WAS PRORATED FROM LTL TEST NUMBER 07856 TO SIMULATE A FOUR LAMP T8 LINEAR FLUORESCENT LUMINAIRE.

MOUNTING: PENDENT

LUMEN TO CANDELA RATIO USED = 9.18

TOTAL AS TESTED INPUT WATTS = 167.1 AT 120.0 VOLTS

TOTAL PRORATED INPUT WATTS = 111.4 AT 120.0 VOLTS

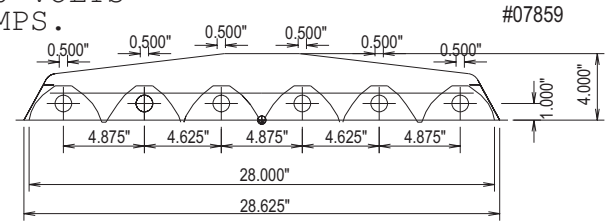
THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	3629	3629	3629	3629	3629
5	3633	3647	3714	3776	3788
15	3499	3736	4076	4281	4315
25	3227	3735	4094	4160	4151
35	2841	3517	3630	3426	3345
45	2355	3010	2750	2142	1881
55	1783	2210	1413	1294	1264
65	1167	1185	826	679	619
75	571	429	234	114	90
85	92	10	2	8	10
90	0	0	12	15	17
95	4	1	14	17	16
105	85	6	16	14	17
115	195	17	19	16	18
125	311	104	16	17	17
135	406	237	61	15	13
145	484	377	205	106	72
155	546	495	375	292	261
165	596	574	536	490	465
175	615	607	606	599	597
180	622	622	622	622	622

FLUX

0	359
5	1131
15	1806
25	2133
35	1934
45	1443
55	884
65	298
75	29
85	12
90	24
95	40
105	67
115	101
125	151
135	180
145	149
155	58
165	
175	
180	



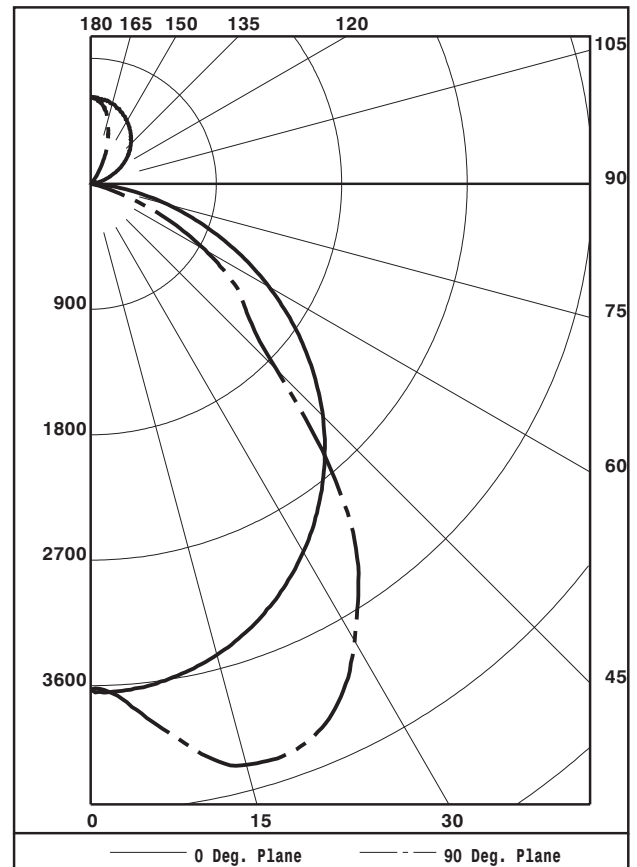
#07859

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	3295	28.9	30.5
0- 40	5428	47.6	50.3
0- 60	8805	77.2	81.5
0- 90	10017	87.9	92.8
90-120	76	0.7	0.7
90-130	143	1.3	1.3
90-150	395	3.5	3.7
90-180	782	6.9	7.2
0-180	10798	94.7	100.0

TOTAL LUMINAIRE EFFICIENCY: 94.7%

CIE TYPE: DIRECT
 PLANE: 0-DEG 90-DEG
 SPACING CRITERIA: 1.2 1.4



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 of candela values for various angles from 0.0 to 180 degrees.

ZONAL LUMEN SUMMARY

Table with 2 columns: Zonal angle ranges and corresponding lumen values.

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.