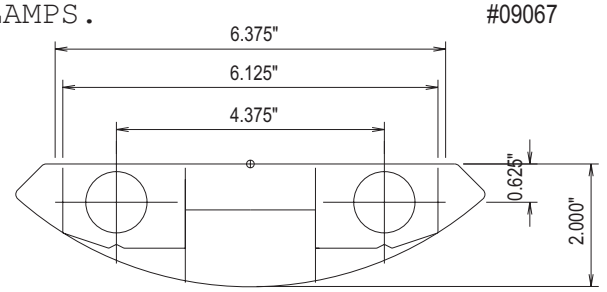
LTL LUMINAIRE TESTING LABORATORY, INC.

SUSTAINING MEMBER of the IESNA

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

LTL NUMBER: 09067 DATE: 06-23-2005
PREPARED FOR: ADAM METAL PRODUCTS
CATALOG NUMBER: 32W T8 LINEAR FIXTURE (A)
LUMINAIRE: FORMED STEEL HOUSING, FORMED SPECULAR ALUMINUM REFLECTOR, OPEN TOP.
LAMPS: TWO 32 WATT T8 LINEAR FLUORESCENT LAMPS RATED AT 2850 LUMENS EACH.
LAMP CATALOG NUMBER: PHILIPS F32T8/TL841/ALTO
BALLAST: ONE FULHAM WORKHORSE WH6-120-L
MOUNTING: PENDANT
LUMEN TO CANDELA RATIO USED = 9.18
TOTAL INPUT WATTS = 54.8 AT 120.0 VOLTS
THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

#09067



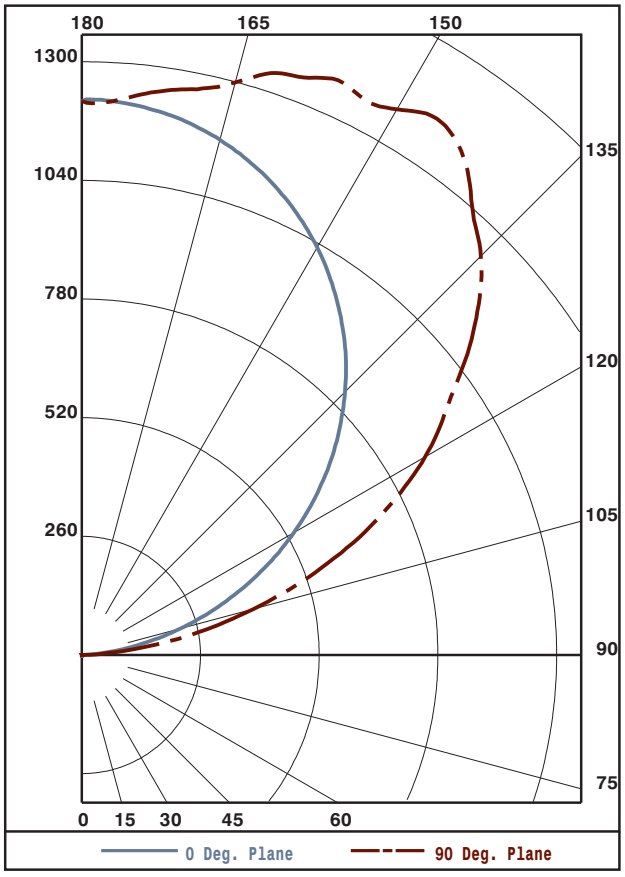
CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	FLUX
90	0	0	0	0	0	
95	39	89	86	79	78	95
105	223	365	399	393	389	388
115	433	641	693	719	724	652
125	635	831	969	986	988	806
135	816	987	1188	1218	1236	853
145	967	1081	1239	1369	1403	762
155	1086	1149	1278	1356	1376	577
165	1168	1197	1243	1280	1299	352
175	1212	1209	1221	1225	1227	117
180	1214	1214	1214	1214	1214	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 90	0	0.0	0.0
90-120	1134	19.9	24.7
90-130	1940	34.0	42.2
90-150	3555	62.4	77.3
90-180	4601	80.7	100.0
0-180	4601	80.7	100.0

TOTAL LUMINAIRE EFFICIENCY: 80.7%
CIE TYPE: INDIRECT



TESTED BY HERSCHEL SCHRECK
CHECKED BY MIKE GRATHER

THIS REPORT BASED ON LM-41 AND OTHER PERTINENT IESNA PROCEDURES.

LTL LUMINAIRE TESTING LABORATORY, INC.

SUSTAINING MEMBER of the IESNA

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

LTL NUMBER: 09067 DATE: 06-23-2005

PREPARED FOR: ADAM METAL PRODUCTS

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	77	77	77	77	66	66	66	66	45	45	45	26	26	26	8	8	8	0
1	70	67	64	61	60	57	55	53	39	38	36	22	22	21	7	7	7	0
2	64	58	54	50	54	50	46	43	34	32	30	20	19	18	6	6	6	0
3	58	51	46	41	49	44	39	36	30	27	25	17	16	15	6	5	5	0
4	53	45	39	35	45	39	34	30	26	24	21	15	14	13	5	4	4	0
5	48	40	34	29	41	34	29	26	24	20	18	14	12	11	4	4	4	0
6	44	35	29	25	38	30	25	22	21	18	15	12	10	9	4	3	3	0
7	41	32	26	22	35	27	22	19	19	16	13	11	9	8	4	3	3	0
8	38	29	23	19	32	25	20	16	17	14	12	10	8	7	3	3	2	0
9	35	26	20	17	30	22	18	14	15	12	10	9	7	6	3	2	2	0
10	32	23	18	15	28	20	16	13	14	11	9	8	7	5	3	2	2	0

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
90	0	0	0	0	0
95	39	89	86	79	78
100	125	234	236	231	229
105	223	365	399	393	389
110	327	508	556	562	559
115	433	641	693	719	724
120	537	765	836	858	869
125	635	831	969	986	988
130	729	917	1080	1121	1124
135	816	987	1188	1218	1236
140	896	1047	1219	1322	1326
145	967	1081	1239	1369	1403
150	1031	1114	1272	1338	1381
155	1086	1149	1278	1356	1376
160	1132	1178	1253	1332	1351
165	1168	1197	1243	1280	1299
170	1196	1205	1239	1253	1258
175	1212	1209	1221	1225	1227
180	1214	1214	1214	1214	1214

ZONAL LUMEN SUMMARY

90- 95	15.
95-100	79.
100-105	156.
105-110	231.
110-115	299.
115-120	353.
120-125	391.
125-130	415.
130-135	429.
135-140	423.
140-145	400.
145-150	362.
150-155	314.
155-160	263.
160-165	205.
165-170	146.
170-175	88.
175-180	29.

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.