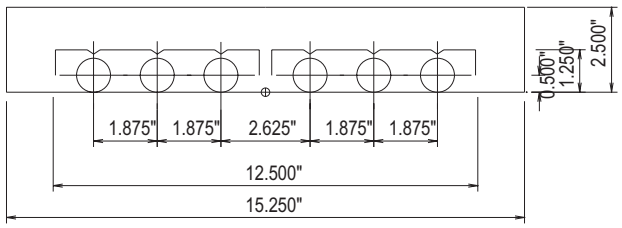
LTL LUMINAIRE TESTING LABORATORY, INC.

SUSTAINING MEMBER of the IESNA

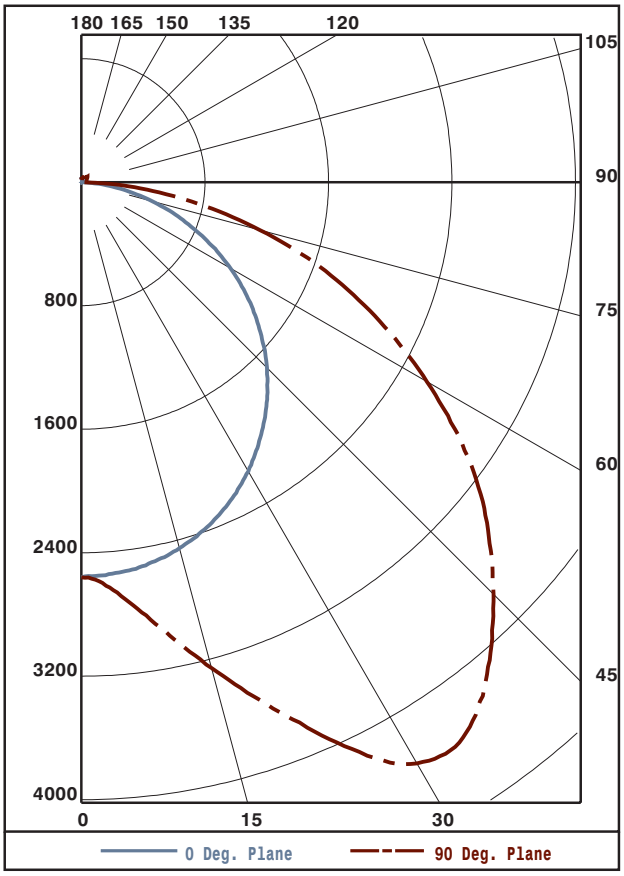
905 Harrison Street · Allentown, PA 18103 · 610-770-1044 · Fax 610-770-8912 · www.LuminaireTesting.com

LTL NUMBER: 08900 DATE: 05-04-2005
PREPARED FOR: ADAM METAL PRODUCTS
CATALOG NUMBER: 32WT8 (HIGH BAY FIXTURE VERSION 2)
LUMINAIRE: FORMED STEEL HOUSING, FORMED SPECULAR ALUMINUM REFLECTORS, NO ENCLOSURE.
LAMPS: SIX 32 WATT T8 LINEAR FLUORESCENT LAMPS RATED AT 2850 LUMENS EACH.
LAMP CATALOG NUMBER: PHILIPS F32T8/TL841/ALTO
BALLAST: ONE FULHAM WORKHORSE WH8-120-L
MOUNTING: PENDANT
LUMEN TO CANDELA RATIO USED = 9.18
TOTAL INPUT WATTS =219.8 AT 120.0 VOLTS
THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

#08900



CANDELA DISTRIBUTION						FLUX
	0.0	22.5	45.0	67.5	90.0	
0	2559	2559	2559	2559	2559	
5	2540	2560	2616	2654	2669	253
15	2455	2626	2926	3166	3258	825
25	2278	2685	3323	3834	4030	1507
35	2020	2711	3741	4263	4348	2171
45	1700	2703	3672	3755	3775	2481
55	1319	2630	2960	3023	3031	2408
65	898	2006	2110	2121	2134	1918
75	472	1141	1198	1200	1199	1154
85	95	287	305	305	305	313
90	0	0	0	0	0	



ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	2584	15.1	19.8
0- 40	4755	27.8	36.5
0- 60	9645	56.4	74.0
0- 90	13030	76.2	100.0
90-180	0	0.0	0.0
0-180	13030	76.2	100.0

TOTAL LUMINAIRE EFFICIENCY: 76.2%

CIE TYPE:	DIRECT	
PLANE:	0-DEG	90-DEG
SPACING CRITERIA:	1.3	2.0
LUMINOUS LENGTH:	48.000	12.500

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	6610.	6610.	6610.
45	6210.	13414.	13791.
55	5940.	13331.	13650.
65	5489.	12897.	13044.
75	4711.	11957.	11967.
85	2816.	9040.	9040.

TESTED BY HERSCHEL SCHRECK
CHECKED BY MIKE GRATHER

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

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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	91	91	91	91	89	89	89	89	85	85	85	81	81	81	78	78	78	76
1	83	79	76	73	81	77	74	71	74	71	69	71	69	67	68	67	65	63
2	75	68	63	59	73	67	62	58	64	60	57	62	58	55	59	57	54	52
3	68	60	54	48	66	59	53	48	56	51	47	54	50	46	52	49	45	44
4	62	53	46	40	60	52	45	40	50	44	39	48	43	39	46	42	38	37
5	56	46	39	33	54	45	38	33	43	37	33	42	36	32	40	36	32	30
6	51	40	33	28	50	40	33	28	38	32	28	37	32	27	36	31	27	26
7	47	36	29	24	45	35	29	24	34	28	24	33	27	23	32	27	23	22
8	43	32	25	20	42	31	25	20	30	24	20	29	24	20	28	23	20	18
9	39	28	22	17	38	28	21	17	27	21	17	26	21	17	25	20	17	15
10	36	25	19	15	35	25	19	15	24	19	15	24	18	14	23	18	14	13

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	2559	2559	2559	2559	2559
5	2540	2560	2616	2654	2669
10	2508	2593	2753	2876	2926
15	2455	2626	2926	3166	3258
20	2377	2655	3122	3481	3628
25	2278	2685	3323	3834	4030
30	2162	2706	3536	4170	4347
35	2020	2711	3741	4263	4348
40	1865	2709	3823	4072	4098
45	1700	2703	3672	3755	3775
50	1514	2691	3346	3403	3430
55	1319	2630	2960	3023	3031
60	1113	2403	2556	2581	2583
65	898	2006	2110	2121	2134
70	683	1572	1643	1673	1682
75	472	1141	1198	1200	1199
80	274	711	735	730	727
85	95	287	305	305	305
90	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	61.
5- 10	191.
10- 15	334.
15- 20	491.
20- 25	662.
25- 30	845.
30- 35	1019.
35- 40	1152.
40- 45	1228.
45- 50	1253.
50- 55	1237.
55- 60	1171.
60- 65	1044.
65- 70	874.
70- 75	684.
75- 80	470.
80- 85	253.
85- 90	59.

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.