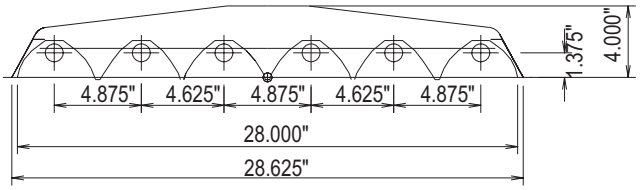
LTL LUMINAIRE TESTING LABORATORY, INC.

IES SUSTAINING MEMBER

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

LTL NUMBER: 07827 DATE: 12-16-2003
PREPARED FOR: SIM-KAR LIGHTING
CATALOG NUMBER: ADJUST-632
LUMINAIRE: FORMED STEEL HOUSING WITH CAST ALUMINUM ENDS, FORMED SPECULAR ALUMINUM REFLECTORS, NO ENCLOSURE. LAMPS IN HIGH 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: 83.1 BASED ON A MEASURED BALLAST FACTOR OF 84.9%
MOUNTING: PENDENT
LUMEN TO CANDELA RATIO USED = 9.18
TOTAL INPUT WATTS =164.0 AT 120.0 VOLTS
THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

#07827



CANDELA DISTRIBUTION						FLUX
	0.0	22.5	45.0	67.5	90.0	
0	8541	8541	8541	8541	8541	
5	8515	8526	8552	8590	8591	816
15	8201	8305	8121	7792	7663	2263
25	7581	7533	6794	6406	6217	3173
35	6678	6176	5333	4525	4265	3361
45	5544	4746	3513	2834	2568	2921
55	4201	3101	1945	1522	1374	2091
65	2719	1524	863	490	362	1093
75	1264	449	68	0	0	319
85	149	1	0	0	0	27
90	0	0	0	0	0	

ZONAL LUMEN SUMMARY

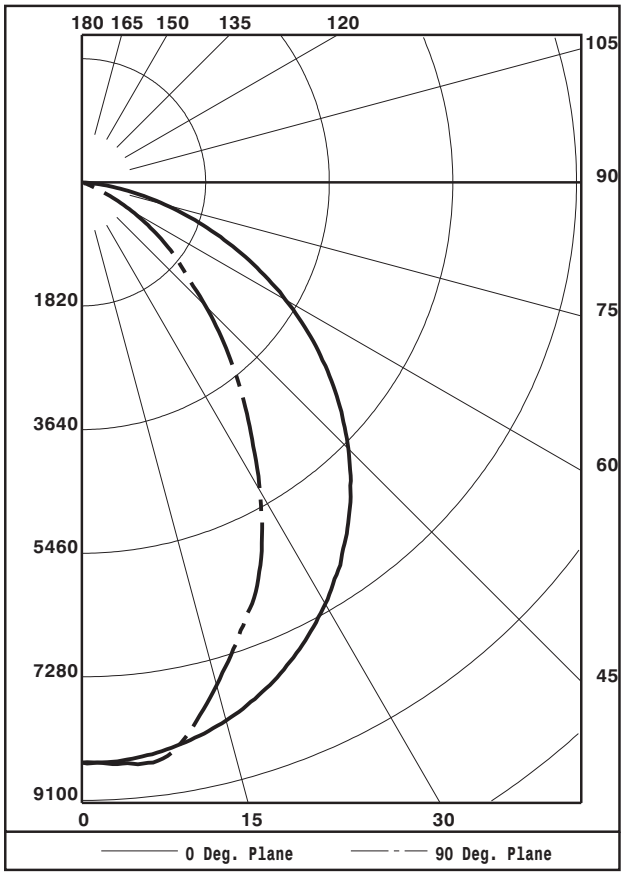
ZONE	LUMENS	%LAMP	%FIXT
0- 30	6252	36.6	38.9
0- 40	9613	56.2	59.8
0- 60	14625	85.5	91.0
0- 90	16064	93.9	100.0
90-180	0	0.0	0.0
0-180	16064	93.9	100.0

TOTAL LUMINAIRE EFFICIENCY: 93.9%

CIE TYPE:	DIRECT	
PLANE:	0-DEG	90-DEG
SPACING CRITERIA:	1.2	1.0
LUMINOUS LENGTH:	48.125	28.625

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	9609.	9609.	9609.
45	8821.	5590.	4086.
55	8240.	3815.	2695.
65	7238.	2297.	964.
75	5495.	296.	0.
85	1923.	0.	0.



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	112	112	112	112	109	109	109	109	104	104	104	100	100	100	96	96	96	94
1	105	102	99	96	103	100	97	94	96	93	91	92	90	89	89	87	86	84
2	98	92	87	83	96	90	86	82	87	83	80	84	81	78	81	79	77	75
3	91	83	77	72	89	82	76	72	79	74	71	77	73	69	75	71	68	67
4	84	75	69	63	83	74	68	63	72	66	62	70	65	61	68	64	61	59
5	78	68	61	55	76	67	60	55	65	59	55	63	58	54	62	57	54	52
6	73	62	54	49	71	61	54	49	59	53	49	58	52	48	56	52	48	46
7	67	56	49	44	66	55	48	44	54	48	43	53	47	43	52	47	43	41
8	62	51	44	39	61	50	43	38	49	43	38	48	42	38	47	42	38	36
9	58	46	39	34	56	45	39	34	44	38	34	43	38	34	42	37	33	32
10	54	42	35	30	53	42	35	30	41	34	30	40	34	30	39	34	30	28

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	8541	8541	8541	8541	8541
5	8515	8526	8552	8590	8591
10	8395	8443	8524	8456	8382
15	8201	8305	8121	7792	7663
20	7928	8038	7473	7079	6942
25	7581	7533	6794	6406	6217
30	7166	6885	6123	5516	5238
35	6678	6176	5333	4525	4265
40	6147	5471	4406	3651	3397
45	5544	4746	3513	2834	2568
50	4897	3971	2705	2032	1891
55	4201	3101	1945	1522	1374
60	3463	2237	1339	992	845
65	2719	1524	863	490	362
70	1961	873	394	124	74
75	1264	449	68	0	0
80	632	88	3	0	0
85	149	1	0	0	0
90	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	205.
5- 10	611.
10- 15	981.
15- 20	1282.
20- 25	1514.
25- 30	1659.
30- 35	1702.
35- 40	1659.
40- 45	1547.
45- 50	1374.
50- 55	1168.
55- 60	923.
60- 65	675.
65- 70	418.
70- 75	220.
75- 80	99.
80- 85	26.
85- 90	1.

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.