



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: 13763

DATE: 08-20-2008

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: TRS03-0-4-X-OP/PB4-X-120-T8-IR

LUMINAIRE: EXTRUDED ALUMINUM HOUSING, FORMED SPECULAR ALUMINUM
UPPER REFLECTOR, 12 CELL, 1-1/2" DEEP, FORMED SEMI-SPECULAR
ALUMINUM LOUVER, OPEN TOP.

LAMP: ONE 32 WATT T8 LINEAR FLUORESCENT LAMP RATED AT 2850 LUMENS.

LAMP CATALOG NUMBER: PHILIPS F32T8/TL841/ALTO

BALLAST: ONE UNIVERSAL LIGHTING TECHNOLOGIES B132IUNVHP-B

MOUNTING: PENDANT

TOTAL INPUT WATTS = 29.8 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

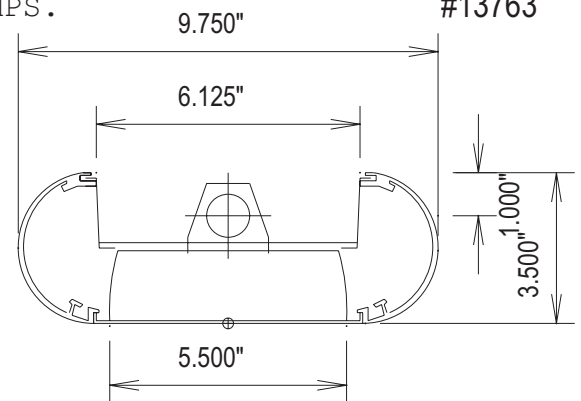
#13763

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	683	683	683	683	683
5	678	680	680	682	682
15	644	650	639	635	637
25	586	580	609	648	654
35	507	503	554	567	576
45	405	430	448	465	481
55	275	305	325	386	396
65	75	102	133	124	109
75	5	6	7	7	6
85	0	0	0	0	0
90	0	0	0	0	0
95	0	0	0	0	0
105	0	1	0	0	0
115	0	5	3	3	2
125	0	5	9	5	5
135	0	3	8	10	13
145	0	2	6	9	10
155	0	0	3	5	7
165	0	0	1	2	3
175	0	0	0	0	0
180	0	0	0	0	0

FLUX

65
182
283
339
344
295
114
8
1
0
1
3
5
6
3
1
0
0



ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	529	18.6	32.1
0- 40	869	30.5	52.6
0- 60	1508	52.9	91.4
0- 90	1631	57.2	98.8
90-120	3	0.1	0.2
90-130	9	0.3	0.5
90-150	18	0.6	1.1
90-180	19	0.7	1.2
0-180	1650	57.9	100.0

TOTAL LUMINAIRE EFFICIENCY:

57.9%

CIE TYPE:

DIRECT

PLANE:

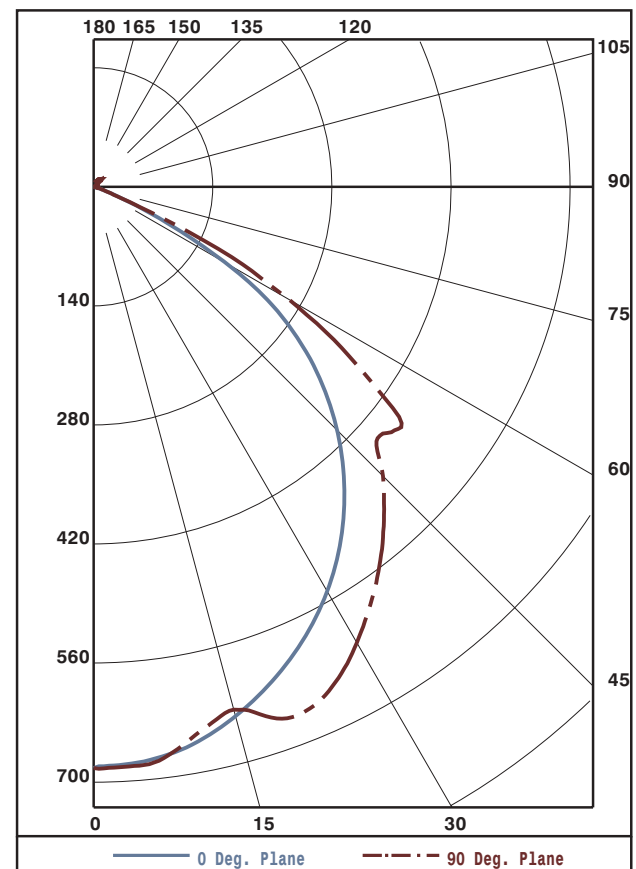
0-DEG 90-DEG

SPACING CRITERIA:

1.2 1.3

SHIELDING ANGLES:

22 35



Approved By: MG

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	69	69	69	69	67	67	67	67	64	64	64	61	61	61	58	58	58	57
1	64	62	60	59	63	61	59	58	58	57	56	56	55	54	54	53	52	51
2	60	56	53	51	58	55	52	50	53	51	49	51	49	48	49	48	46	45
3	56	51	47	44	54	50	46	43	48	45	43	46	44	42	45	43	41	40
4	51	45	41	38	50	45	41	38	43	40	37	42	39	36	41	38	36	35
5	47	41	36	33	46	40	36	32	39	35	32	37	34	32	36	34	31	30
6	43	36	32	28	42	36	31	28	35	31	28	34	30	28	33	30	27	26
7	40	33	28	25	39	32	28	25	31	27	24	30	27	24	30	26	24	23
8	37	29	25	21	36	29	24	21	28	24	21	27	24	21	27	23	21	20
9	34	26	22	18	33	26	21	18	25	21	18	24	21	18	24	21	18	17
10	31	24	19	16	31	23	19	16	23	19	16	22	19	16	22	18	16	15

PLANE: 0-DEG 90-DEG
LUMINOUS LENGTH: 48.000 5.500

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE	AVERAGE	AVERAGE	AVERAGE
IN DEG	0-DEG	45-DEG	90-DEG
0	4010.	4010.	4010.
45	3363.	3720.	3994.
55	2815.	3327.	4053.
65	1042.	1848.	1514.
75	113.	159.	136.
85	0.	0.	0.



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35	507	503	554	567	576
40	458	471	504	518	530
45	405	430	448	465	481
50	345	375	390	411	450
55	275	305	325	386	396
60	180	216	250	258	266
65	75	102	133	124	109
70	14	24	39	22	17
75	5	6	7	7	6
80	2	2	2	3	2
85	0	0	0	0	0
90	0	0	0	0	0
95	0	0	0	0	0
100	0	0	0	0	0
105	0	1	0	0	0
110	0	4	2	0	0
115	0	5	3	3	2
120	0	5	6	4	4
125	0	5	9	5	5
130	0	4	8	12	11
135	0	3	8	10	13
140	0	2	8	10	10
145	0	2	6	9	10
150	0	1	4	7	10
155	0	0	3	5	7
160	0	0	2	3	5
165	0	0	1	2	3
170	0	0	0	1	1
175	0	0	0	0	0
180	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	16.
5- 10	48.
10- 15	78.
15- 20	105.
20- 25	131.
25- 30	152.
30- 35	166.
35- 40	173.
40- 45	175.
45- 50	169.
50- 55	161.
55- 60	133.
60- 65	85.
65- 70	29.
70- 75	6.
75- 80	2.
80- 85	1.
85- 90	0.
90- 95	0.
95-100	0.
100-105	0.
105-110	0.
110-115	1.
115-120	2.
120-125	2.
125-130	3.
130-135	3.
135-140	2.
140-145	2.
145-150	1.
150-155	1.
155-160	0.
160-165	0.
165-170	0.
170-175	0.
175-180	0.

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.