



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: 11720

DATE: 07-19-2007

PREPARED FOR: MERCURY LIGHTING PRODUCTS COMPANY INC.

CATALOG NUMBER: MB-128-T5-ELB-UNI-L/COVER

LUMINAIRE: FORMED STEEL HOUSING, FORMED WHITE ENAMEL STEEL REFLECTOR,
NO ENCLOSURE.

LAMP: ONE 28 WATT T5 LINEAR FLUORESCENT LAMP RATED AT 2610 LUMENS.

LAMP CATALOG NUMBER: SYLVANIA FP28/835/PM/ECO

BALLAST: ONE UNIVERSAL LIGHTING TECHNOLOGIES B228PUNV-C

MOUNTING: SURFACE

LUMEN TO CANDELA RATIO USED = 9.18

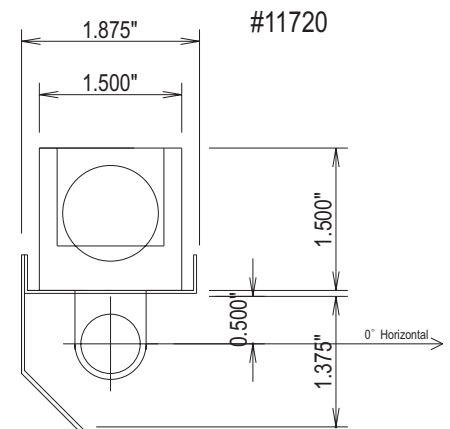
TOTAL INPUT WATTS = 32.7 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PERPENDICULAR TO THE LAMPS.

CANDELA DISTRIBUTION										FLUX
	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	
0	447	447	447	447	447	447	447	447	447	
5	482	476	470	455	441	429	421	411	410	42
15	536	522	501	465	426	381	335	301	290	118
25	576	552	518	459	396	311	232	180	162	174
35	628	590	519	436	350	230	129	71	50	209
45	668	620	524	400	292	144	39	0	0	228
55	683	631	523	358	225	64	0	0	0	240
65	679	618	500	322	151	3	0	0	0	240
75	640	577	455	276	75	0	0	0	0	224
85	577	512	383	206	13	0	0	0	0	192
90	549	484	353	166	0	0	0	0	0	
95	523	457	326	139	0	0	0	0	0	160
105	436	359	222	43	0	0	0	0	0	112
115	291	222	104	0	0	0	0	0	0	59
125	144	89	5	0	0	0	0	0	0	20
135	19	0	0	0	0	0	0	0	0	2
145	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	%LAMP	%FIXT
0- 30	334	12.8	16.5
0- 40	543	20.8	26.9
0- 60	1011	38.7	50.1
0- 90	1667	63.9	82.6
90-120	331	12.7	16.4
90-130	351	13.4	17.4
90-150	352	13.5	17.4
90-180	352	13.5	17.4
0-180	2019	77.4	100.0

TOTAL LUMINAIRE EFFICIENCY: 77.4%
 CIE TYPE: SEMI-DIRECT
 PLANE: 0-DEG 90-DEG 180-DEG
 SPACING CRITERIA: 2.1 1.2 0.6



Approved By: MG

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



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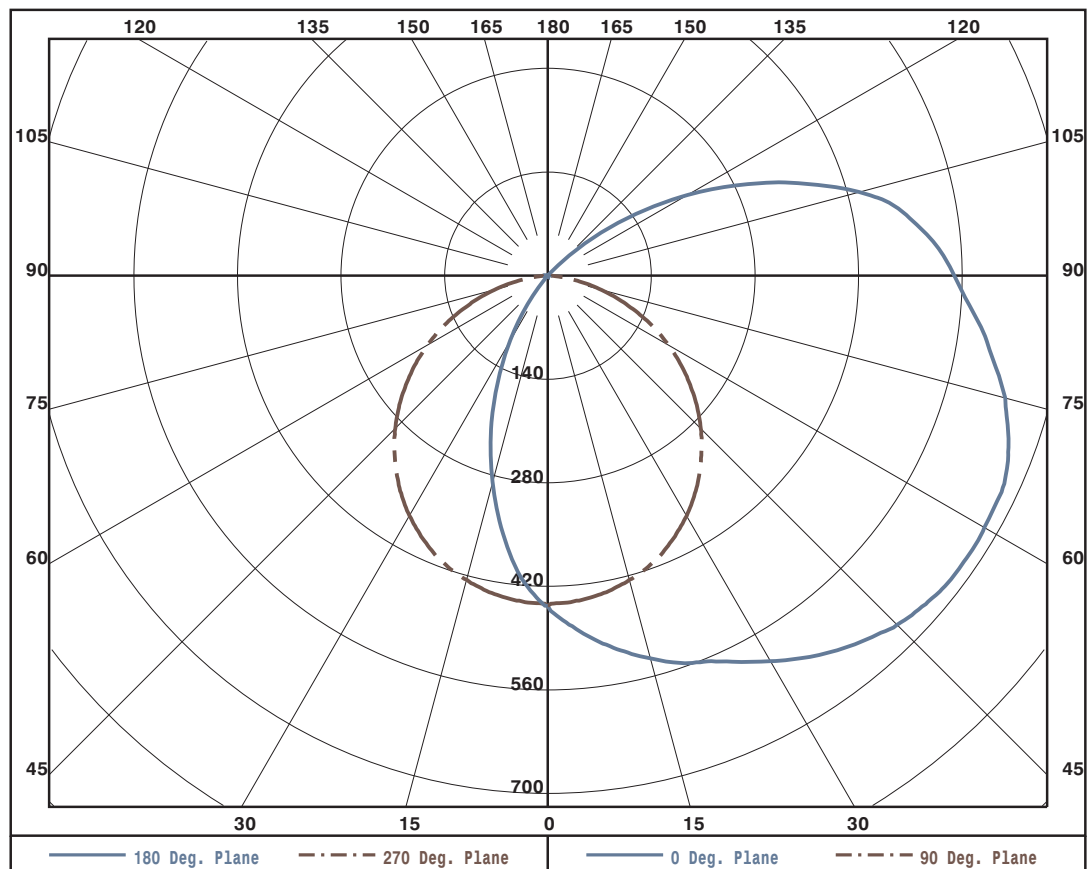
ZONAL LUMEN SUMMARY

0- 5	11.
5- 10	31.
10- 15	51.
15- 20	67.
20- 25	81.
25- 30	93.
30- 35	101.
35- 40	108.
40- 45	112.
45- 50	116.
50- 55	119.
55- 60	121.
60- 65	121.
65- 70	119.
70- 75	115.
75- 80	109.
80- 85	101.
85- 90	91.
90- 95	85.
95-100	76.
100-105	63.
105-110	48.
110-115	35.
115-120	24.
120-125	14.
125-130	6.
130-135	2.
135-140	0.
140-145	0.
145-150	0.
150-155	0.
155-160	0.
160-165	0.
165-170	0.
170-175	0.
175-180	0.

PLANE: 0-DEG 90-DEG
LUMINOUS LENGTH: 1.875 46.000
HEIGHT OF SIDE: 1.375 1.375

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	8032.	8032.	8032.
45	9796.	8657.	7216.
55	10451.	9258.	6769.
65	11220.	9856.	6039.
75	11888.	10480.	4687.
85	12678.	11014.	1998.





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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	89	89	89	89	85	85	85	85	78	78	78	72	72	72	67	67	67	64
1	79	74	70	66	75	71	67	64	65	62	59	60	57	55	55	53	51	48
2	70	63	57	52	67	60	55	50	55	51	47	51	47	44	46	43	41	38
3	64	55	48	42	61	52	46	41	48	43	38	44	40	36	41	37	34	31
4	58	48	41	35	55	46	39	34	42	37	32	39	34	30	36	32	29	26
5	53	42	35	29	50	41	34	28	37	31	27	34	29	25	32	27	24	22
6	49	38	30	25	46	36	29	24	33	27	23	31	26	22	28	24	21	19
7	45	34	27	22	43	32	26	21	30	24	20	28	23	19	26	21	18	16
8	41	30	23	19	39	29	23	18	27	21	17	25	20	16	23	19	15	14
9	38	27	21	16	36	26	20	16	24	19	15	23	18	14	21	17	13	12
10	35	25	18	14	34	24	18	14	22	17	13	21	16	13	19	15	12	10

NOTE: THE ZONAL CAVITY CALCULATION TECHNIQUE IS ACCURATE WHEN LUMINAIRES WITH SYMMETRIC CANDELA DISTRIBUTIONS ARE EMPLOYED AND WHEN THE LUMINAIRES ARE LOCATED SYMMETRICALLY THROUGHOUT THE ROOM. THIS UNIT HAS SPECIAL CHARACTERISTICS AND THEREFORE THESE COEFFICIENTS SHOULD BE USED WITH CAUTION.

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.