



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 06995

DATE: 10-03-2002

PREPARED FOR: MERCURY LIGHTING PRODUCTS COMPANY INC.

CATALOG NUMBER: MB-128-T5-ELB-120V

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

LAMP: ONE PHILIPS TL5 28W/835HE RATED AT 2610 LUMENS.

BALLAST: ONE SYLVANIA QT1X28/120PS

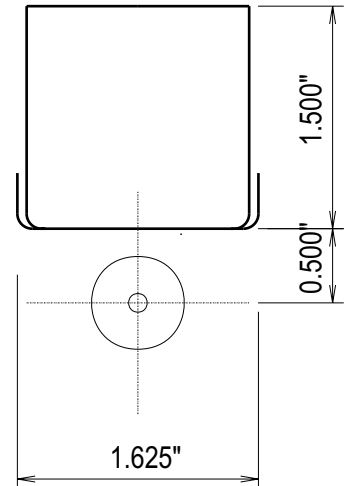
MOUNTING: SURFACE

LUMEN TO CANDELA RATIO USED = 9.18

TOTAL INPUT WATTS = 31.8 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

#06995



CANDELA DISTRIBUTION						FLUX
	0.0	22.5	45.0	67.5	90.0	
0	428	428	428	428	428	
5	425	428	428	425	425	41
15	411	416	424	427	431	119
25	381	392	413	428	434	190
35	336	357	395	426	440	246
45	279	313	374	423	442	285
55	212	266	353	416	440	306
65	138	216	322	394	420	301
75	64	167	278	353	382	270
85	12	108	223	302	333	221
90	0	92	209	291	321	
95	0	94	211	292	321	205
105	0	41	170	267	301	166
115	0	1	92	175	205	93
125	0	0	20	82	105	36
135	0	0	0	6	17	4
145	0	0	0	0	0	0
155	0	0	0	0	0	0
165	0	0	0	0	0	0
175	0	0	0	0	0	0
180	0	0	0	0	0	0

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	%LAMP	%FIXT
0- 30	350	13.4	14.1
0- 40	595	22.8	24.0
0- 60	1186	45.4	47.8
0- 90	1978	75.8	79.7
90-120	463	17.7	18.7
90-130	499	19.1	20.1
90-150	503	19.3	20.3
90-180	503	19.3	20.3
0-180	2481	95.0	100.0

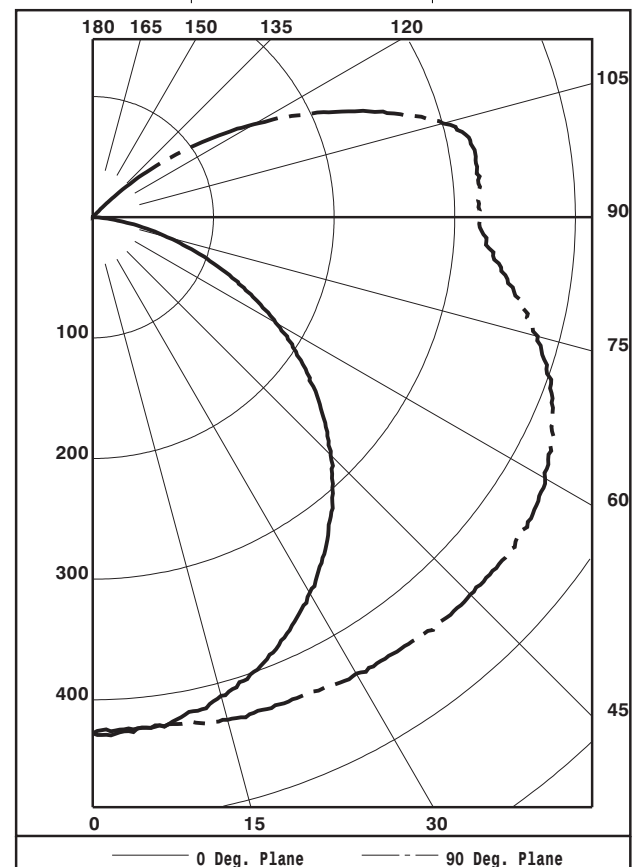
TOTAL LUMINAIRE EFFICIENCY: 95.0%

TOTAL REFLECTANCE OF PAINT: 91.7%

CIE TYPE: SEMI-DIRECT

PLANE: 0-DEG 90-DEG

SPACING CRITERIA: 1.2 1.6



TESTED BY HERSCHEL SCHRECK
CHECKED BY MIKE GRATHER

THIS REPORT BASED ON LM-41 AND OTHER PERTINENT IES 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	109	109	109	109	104	104	104	104	95	95	95	87	87	87	79	79	79	76
1	96	90	85	81	91	86	82	77	79	75	71	71	69	66	65	63	61	57
2	86	77	69	63	81	73	66	60	67	61	56	61	56	52	55	51	48	45
3	78	67	58	51	74	64	56	49	58	51	46	53	47	43	48	43	40	37
4	71	58	49	42	67	56	47	41	51	44	38	46	40	36	42	37	33	30
5	64	51	42	35	61	49	40	34	44	37	32	40	34	30	37	32	28	25
6	59	45	36	30	56	43	35	29	40	32	27	36	30	25	33	28	23	21
7	54	40	32	25	51	39	30	25	35	28	23	32	26	22	29	24	20	18
8	50	36	28	22	47	35	27	21	32	25	20	29	23	19	26	21	17	15
9	46	32	24	19	43	31	23	18	29	22	17	26	20	16	24	19	15	13
10	43	29	22	16	40	28	21	16	26	19	15	24	18	14	22	17	13	11

PLANE: 0-DEG 90-DEG
LUMINOUS LENGTH: 46.000 1.625
HEIGHT OF SIDE: 0.000 0.875

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	8874.	8874.	8874.
45	8282.	10351.	10567.
55	7758.	10462.	10945.
65	6854.	10618.	11246.
75	5191.	10698.	11452.
85	2890.	10694.	11746.



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	0.0	22.5	45.0	67.5	90.0
0	428	428	428	428	428
5	425	428	428	425	425
10	421	423	426	426	426
15	411	416	424	427	431
20	399	406	420	429	433
25	381	392	413	428	434
30	359	375	405	427	437
35	336	357	395	426	440
40	309	336	387	423	441
45	279	313	374	423	442
50	247	290	364	421	443
55	212	266	353	416	440
60	175	243	340	408	433
65	138	216	322	394	420
70	101	194	303	379	404
75	64	167	278	353	382
80	34	139	249	328	355
85	12	108	223	302	333
90	0	92	209	291	321
95	0	94	211	292	321
100	0	69	207	294	321
105	0	41	170	267	301
110	0	18	130	222	256
115	0	1	92	175	205
120	0	0	54	127	154
125	0	0	20	82	105
130	0	0	0	39	58
135	0	0	0	6	17
140	0	0	0	0	0
145	0	0	0	0	0
150	0	0	0	0	0
155	0	0	0	0	0
160	0	0	0	0	0
165	0	0	0	0	0
170	0	0	0	0	0
175	0	0	0	0	0
180	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	10.
5- 10	30.
10- 15	50.
15- 20	69.
20- 25	87.
25- 30	103.
30- 35	117.
35- 40	129.
40- 45	139.
45- 50	146.
50- 55	151.
55- 60	154.
60- 65	152.
65- 70	149.
70- 75	140.
75- 80	129.
80- 85	116.
85- 90	105.
90- 95	103.
95-100	102.
100-105	92.
105-110	74.
110-115	55.
115-120	38.
120-125	24.
125-130	12.
130-135	4.
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.

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.



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VISUAL COMFORT PROBABILITY TABLE

RATED LUMENS PER LAMP 2610.

100. FC. ROOM		REFLECTANCES 80/50/20 LUMINAIRE 0 DEG PLANE				LUMINAIRE 90 DEG PLANE			
W	L	8.5	10.0	13.0	16.0	8.5	10.0	13.0	16.0
20	20	28	36	50	67	21	29	43	61
20	30	22	27	36	48	15	19	26	39
20	40	20	24	29	37	12	15	19	26
20	60	19	22	26	32	10	12	15	19
30	20	26	33	45	60	23	30	41	57
30	30	21	25	32	43	15	20	25	37
30	40	19	21	26	32	12	15	18	25
30	60	18	20	23	27	10	12	14	18
30	80	18	20	21	25	9	11	12	15
40	20	27	33	43	57	25	31	40	55
40	30	21	25	30	40	17	21	26	36
40	40	19	21	24	31	13	16	19	25
40	60	17	19	21	25	11	13	14	18
40	80	17	19	20	23	9	11	12	15
40	100	18	19	20	23	9	10	11	13
60	30	22	25	29	39	19	22	26	36
60	40	19	21	24	29	15	17	19	25
60	60	17	19	20	24	12	14	15	18
60	80	17	18	19	22	10	12	12	15
60	100	17	18	19	21	9	11	11	13
100	40	21	23	25	30	18	20	22	27
100	60	19	20	21	24	14	16	17	20
100	80	18	19	19	22	12	14	14	16
100	100	18	18	19	20	11	12	12	14

THIS TABLE WAS CALCULATED ACCORDING TO IESNA LM-42-72. THE VCP CALCULATION PROCEDURE IS MOST ACCURATE FOR LUMINAIRE THAT EXHIBIT THE FOLLOWING CHARACTERISTICS. 1). LUMINAIRE IS RELATIVELY CONSISTANT IN LUMINANCE 2). LUMINAIRE HAS WELL-DEFINED LUMINOUS EDGES AND 3). LUMINAIRE UTILIZES FLUORESCENT LAMPS. CAUTION SHOULD BE USED WHEN APPLYING VCP VALUES BASED ON LUMINAIRE THAT DO NOT CONFORM TO THE ABOVE CONDITIONS.