



# LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING  
MEMBER

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

LTL NUMBER: 06207

DATE: 10-31-2001

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 6HF1X32E1-6616SCL/SCL

LUMINAIRE: FORMED STEEL HOUSING, SPUN SEMI-SPECULAR ALUMINUM REFLECTOR,  
CLEAR FRESNEL GLASS LENS ABOVE SPUN SEMI-SPECULAR ALUMINUM  
LOWER REFLECTOR.

LAMP: ONE SYLVANIA CF32DT/E/IN/830 RATED AT 2400 LUMENS.

BALLAST: ONE ADVANCE ICF-2S26-H1-LD

MOUNTING: RECESSED

TOTAL INPUT WATTS = 33.7 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

## CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	FLUX
0	709	709	709	709	709	709	709	709	709	
5	650	660	667	681	693	712	728	739	735	66
15	484	510	531	550	566	623	683	748	776	169
25	307	332	415	459	483	518	575	645	671	221
35	123	127	216	260	292	297	308	356	460	174
45	78	109	200	222	229	233	239	202	235	151
55	69	78	101	114	117	121	115	105	112	96
65	32	36	44	54	54	54	49	51	50	47
75	8	11	14	14	16	17	17	15	19	17
85	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	

## ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	456	19.0	48.4
0- 40	629	26.2	66.9
0- 60	876	36.5	93.2
0- 90	941	39.2	100.0
90-180	0	0.0	0.0
0-180	941	39.2	100.0

TOTAL LUMINAIRE EFFICIENCY: 39.2%

CIE TYPE: DIRECT

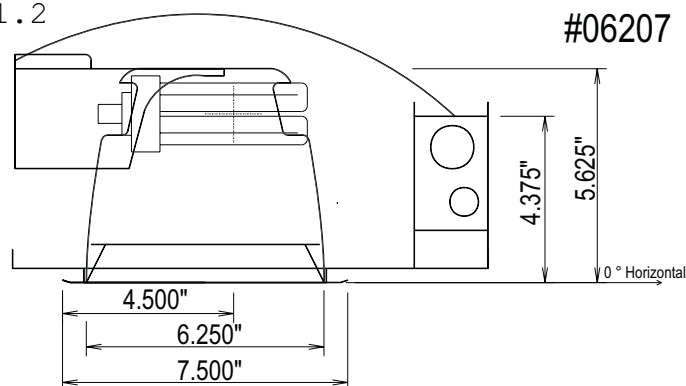
PLANE: 0-DEG 90-DEG 180-DEG

SPACING CRITERIA: 0.7 1.0 1.2

LUMINOUS DIAMETER: 6.250

## LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	35818.	35818.	35818.
45	5573.	14289.	16361.
55	6077.	8896.	10305.
65	3825.	5260.	6455.
75	1562.	2733.	3123.
85	0.	0.	0.



TESTED BY HERSCHEL SCHRECK  
CHECKED BY MIKE GRATHER

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



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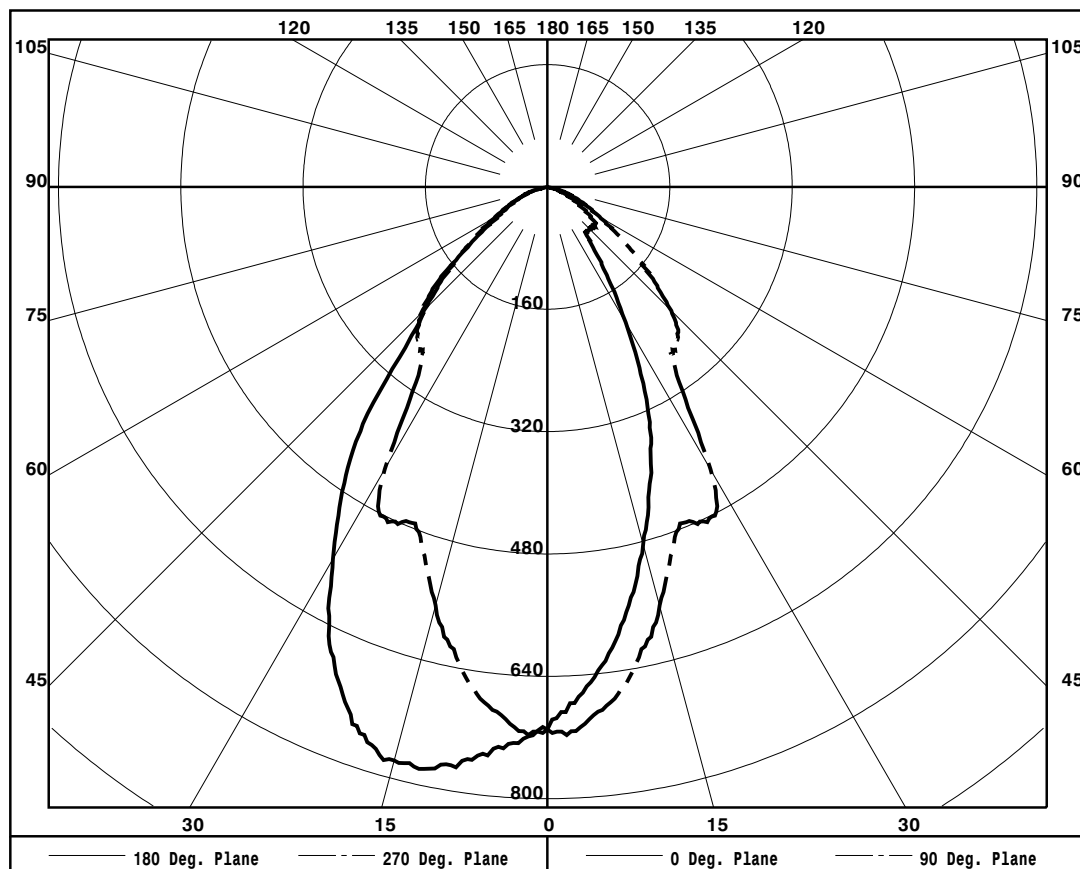
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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0
0	709	709	709	709	709	709	709	709	709
5	650	660	667	681	693	712	728	739	735
10	575	589	606	624	643	678	720	759	767
15	484	510	531	550	566	623	683	748	776
20	398	426	441	463	487	545	618	702	748
25	307	332	415	459	483	518	575	645	671
30	205	216	296	376	427	454	473	501	562
35	123	127	216	260	292	297	308	356	460
40	75	95	216	252	259	256	259	246	328
45	78	109	200	222	229	233	239	202	235
50	81	105	148	161	173	177	173	160	182
55	69	78	101	114	117	121	115	105	112
60	50	55	69	77	79	81	77	69	69
65	32	36	44	54	54	54	49	51	50
70	19	22	29	34	36	34	29	30	32
75	8	11	14	14	16	17	17	15	19
80	0	0	0	0	0	0	0	0	0
85	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	17.
5- 10	49.
10- 15	75.
15- 20	94.
20- 25	105.
25- 30	116.
30- 35	94.
35- 40	80.
40- 45	80.
45- 50	71.
50- 55	56.
55- 60	40.
60- 65	28.
65- 70	19.
70- 75	13.
75- 80	4.
80- 85	0.
85- 90	0.





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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	47	47	47	47	46	46	46	46	44	44	44	42	42	42	40	40	40	39
1	44	43	42	41	43	42	41	40	40	39	39	39	38	38	37	37	36	36
2	41	39	37	35	40	38	37	35	37	36	34	36	35	34	35	34	33	32
3	39	36	33	31	38	35	33	31	34	32	31	33	31	30	32	31	30	29
4	36	33	30	28	35	32	30	28	31	29	27	30	29	27	30	28	27	26
5	34	30	27	25	33	29	27	25	29	26	25	28	26	24	27	25	24	23
6	32	27	25	23	31	27	24	22	26	24	22	26	24	22	25	23	22	21
7	30	25	22	20	29	25	22	20	24	22	20	24	22	20	23	21	20	19
8	28	23	20	18	27	23	20	18	22	20	18	22	20	18	21	19	18	17
9	26	21	18	16	25	21	18	16	20	18	16	20	18	16	20	18	16	15
10	24	19	17	15	24	19	17	15	19	16	15	18	16	15	18	16	15	14

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.



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VISUAL COMFORT PROBABILITY TABLE

RATED LUMENS PER LAMP 2400.

100. FC. REFLECTANCES 80/50/20  
ROOM LUMINAIRES 0 DEG PLANE

LUMINAIRES 90 DEG PLANE

W	L	8.5	10.0	13.0	16.0	8.5	10.0	13.0	16.0
20	20	52	53	58	68	43	41	43	47
20	30	55	51	51	57	46	39	37	39
20	40	55	54	50	52	46	42	36	35
20	60	55	54	54	52	46	42	40	35
30	20	54	53	56	62	47	44	45	48
30	30	55	50	49	52	48	42	38	39
30	40	55	52	48	48	49	44	37	35
30	60	55	53	51	48	49	44	40	35
30	80	55	53	51	48	49	44	40	35
40	20	57	55	57	61	52	48	48	50
40	30	58	53	49	51	52	46	40	41
40	40	58	54	48	47	52	47	39	36
40	60	58	54	51	47	52	47	42	36
40	80	58	54	51	47	52	47	42	36
40	100	58	55	51	47	53	47	42	36
60	30	58	56	50	51	52	49	43	43
60	40	58	57	49	47	52	50	42	38
60	60	58	57	51	47	52	50	43	37
60	80	58	57	51	47	53	50	44	38
60	100	58	57	51	47	53	50	44	38
100	40	58	57	53	51	52	50	47	44
100	60	58	57	54	51	53	50	48	43
100	80	58	57	54	51	53	50	48	43
100	100	58	57	55	51	53	50	48	43



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CIRCLE-OF-LIGHT

Ft below	FC nadir	Dia @ 50%
6.0	19.7	5.7
8.0	11.1	7.6
10.0	7.1	9.5
12.0	4.9	11.5
14.0	3.6	13.4
16.0	2.8	15.3

NOTE: 'Dia' spans the edge-points that are half of nadir FC