



# 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: 06205

DATE: 10-27-2001

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 6HF1X32E1-6602SCL

LUMINAIRE: FORMED STEEL HOUSING, SPUN SEMI-SPECULAR ALUMINUM  
REFLECTOR, NO ENCLOSURE.

LAMP: ONE SYLVANIA CF32DT/E/IN/835 RATED AT 2400 LUMENS.

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

MOUNTING: RECESSED

TOTAL INPUT WATTS = 29.9 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	545	545	545	545	545	545	545	545	545	
5	504	518	535	547	565	577	589	592	591	54
15	369	439	540	573	583	629	687	683	663	166
25	221	311	455	517	560	631	692	719	668	251
35	211	317	433	518	576	604	626	671	675	327
45	233	295	342	387	424	436	448	441	423	297
55	226	255	266	249	233	209	177	163	151	158
65	3	3	2	2	1	0	0	0	0	1
75	0	0	0	0	0	0	0	0	0	0
85	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	0

## ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	471	19.6	37.6
0- 40	798	33.3	63.7
0- 60	1252	52.2	99.9
0- 90	1254	52.2	100.0
90-180	0	0.0	0.0
0-180	1254	52.2	100.0

TOTAL LUMINAIRE EFFICIENCY: 52.2%

CIE TYPE: DIRECT

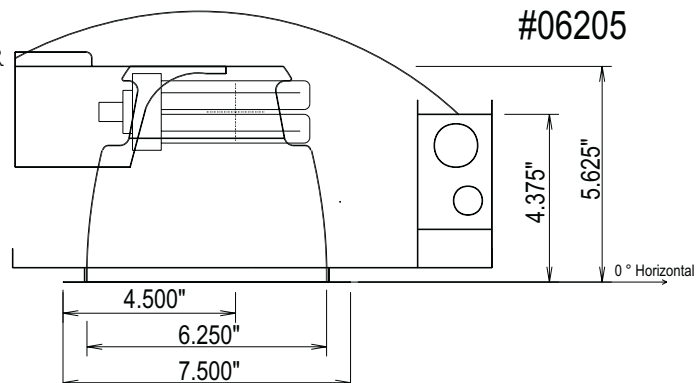
PLANE: 0-DEG 90-DEG 180-DEG

SPACING CRITERIA: 0.6 1.6 1.6

LUMINOUS DIAMETER: 6.250

## LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	27533.	27533.	27533.
45	16646.	24434.	30292.
55	19905.	23428.	20522.
65	359.	239.	120.
75	0.	0.	0.
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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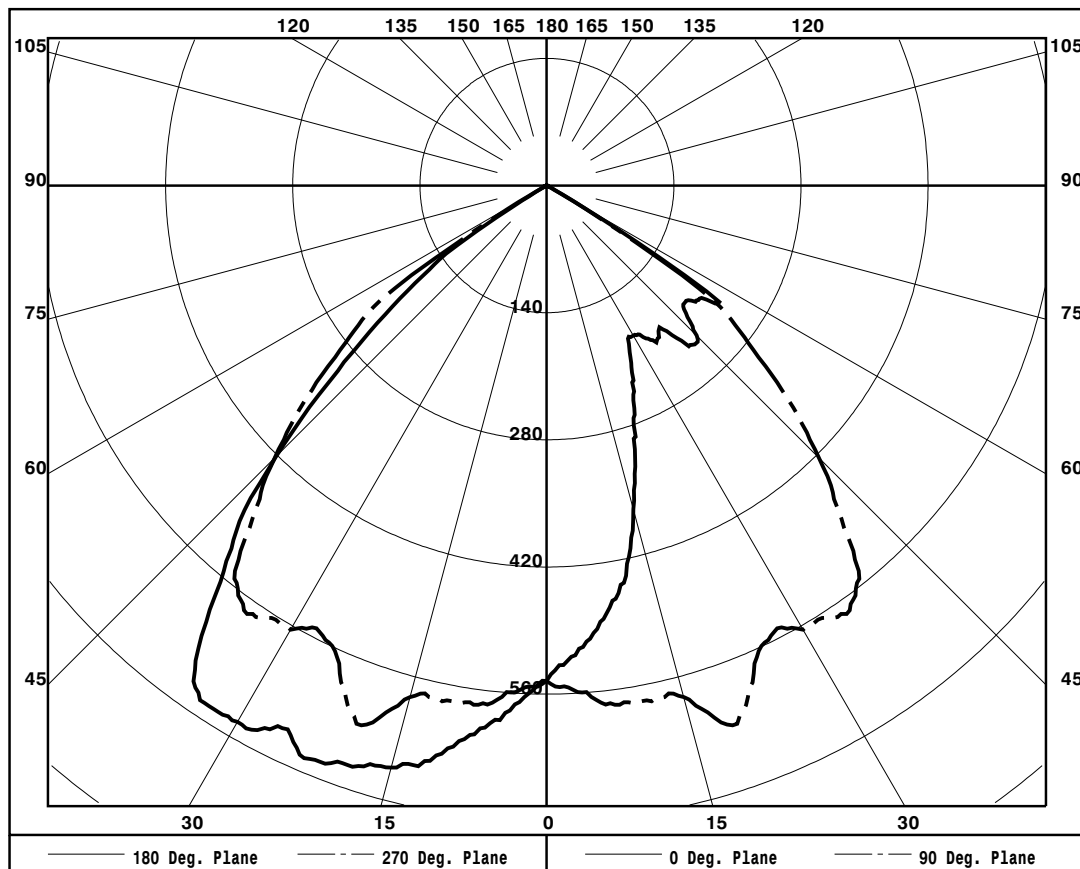
PREPARED FOR: VANTAGE LUMINAIRES

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0
0	545	545	545	545	545	545	545	545	545
5	504	518	535	547	565	577	589	592	591
10	456	492	541	564	577	611	641	639	629
15	369	439	540	573	583	629	687	683	663
20	280	354	505	567	621	661	696	692	675
25	221	311	455	517	560	631	692	719	668
30	191	322	433	511	564	634	669	713	682
35	211	317	433	518	576	604	626	671	675
40	215	321	436	506	525	561	569	582	554
45	233	295	342	387	424	436	448	441	423
50	199	241	272	303	322	310	285	275	266
55	226	255	266	249	233	209	177	163	151
60	31	31	33	28	25	17	13	11	10
65	3	3	2	2	1	0	0	0	0
70	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0
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	13.
5- 10	41.
10- 15	69.
15- 20	96.
20- 25	116.
25- 30	136.
30- 35	155.
35- 40	172.
40- 45	162.
45- 50	135.
50- 55	106.
55- 60	52.
60- 65	1.
65- 70	0.
70- 75	0.
75- 80	0.
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	62	62	62	62	61	61	61	61	58	58	58	56	56	56	53	53	53	52
1	59	57	55	54	57	56	55	53	54	53	52	52	51	50	50	49	49	48
2	55	52	50	48	54	51	49	47	50	48	46	48	46	45	46	45	44	43
3	52	48	45	42	50	47	44	42	45	43	41	44	42	40	43	41	40	39
4	48	43	40	37	47	43	39	37	41	39	36	40	38	36	39	37	36	35
5	45	39	36	33	44	39	35	33	38	35	32	37	34	32	36	34	32	31
6	41	36	32	29	41	35	32	29	34	31	29	34	31	29	33	30	28	27
7	38	32	28	26	38	32	28	25	31	28	25	30	27	25	30	27	25	24
8	35	29	25	22	35	29	25	22	28	25	22	27	24	22	27	24	22	21
9	32	26	22	19	32	26	22	19	25	22	19	25	21	19	24	21	19	18
10	30	24	20	17	29	23	20	17	23	19	17	22	19	17	22	19	17	16

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	69	43	35	37	64	36	33	27
20	30	69	43	40	43	64	36	33	34
20	40	69	43	40	43	64	36	33	34
20	60	69	43	40	43	64	36	33	34
30	20	69	43	43	34	64	36	41	27
30	30	69	43	47	41	64	36	41	35
30	40	69	43	47	41	64	36	41	35
30	60	69	43	47	42	64	36	41	35
30	80	70	43	47	42	64	36	41	35
40	20	69	43	43	39	64	36	41	32
40	30	69	43	47	44	64	36	41	38
40	40	69	43	47	44	64	36	41	38
40	60	70	43	47	44	64	36	41	38
40	80	70	43	47	45	64	36	41	38
40	100	70	43	47	45	64	36	41	38
60	30	69	43	47	44	64	36	41	38
60	40	70	43	47	44	64	36	41	38
60	60	62	43	47	44	64	36	41	38
60	80	62	43	47	45	64	36	41	38
60	100	62	43	47	45	64	36	41	38
100	40	70	43	47	44	64	36	41	38
100	60	62	43	47	45	64	36	41	38
100	80	62	43	47	45	64	36	41	38
100	100	62	43	47	45	65	36	41	38



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LTL TEST #06205

CIRCLE-OF-LIGHT

Ft below	FC nadir	Dia @ 50%
6.0	15.1	8.7
8.0	8.5	11.6
10.0	5.4	14.4
12.0	3.8	17.3
14.0	2.8	20.2
16.0	2.1	23.1

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