



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING  
MEMBER

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

LTL NUMBER: 06208

DATE: 11-01-2001

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 6HF1X32E1-6614SCL/SCL

LUMINAIRE: FORMED STEEL HOUSING, SPUN SEMI-SPECULAR ALUMINUM REFLECTOR,  
CLEAR PRISMATIC 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	581	581	581	581	581	581	581	581	581	
5	537	541	550	557	570	582	593	601	599	55
15	457	469	503	542	578	609	625	639	644	160
25	385	410	460	512	553	582	598	604	606	240
35	260	277	312	353	379	391	397	406	414	224
45	141	143	162	178	190	197	198	202	198	140
55	69	78	81	89	96	94	95	95	91	79
65	38	38	38	44	42	46	42	40	38	40
75	8	8	8	12	11	11	12	8	8	11
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	455	18.9	48.0
0- 40	679	28.3	71.6
0- 60	897	37.4	94.6
0- 90	948	39.5	100.0
90-180	0	0.0	0.0
0-180	948	39.5	100.0

TOTAL LUMINAIRE EFFICIENCY: 39.5%

CIE TYPE: DIRECT

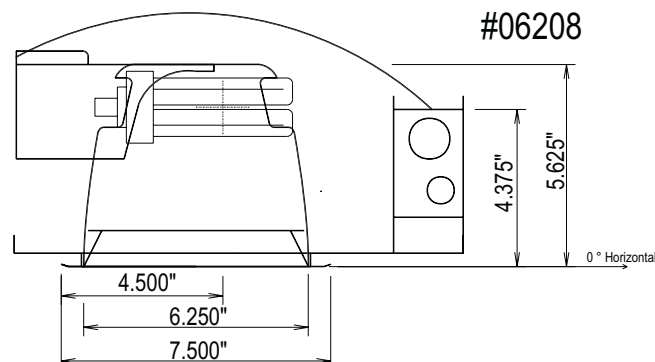
PLANE: 0-DEG 90-DEG 180-DEG

SPACING CRITERIA: 0.9 1.2 1.3

LUMINOUS DIAMETER: 6.250

#### LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	29351.	29351.	29351.
45	10074.	11574.	13574.
55	6077.	7134.	8455.
65	4542.	4542.	5021.
75	1562.	1562.	2147.
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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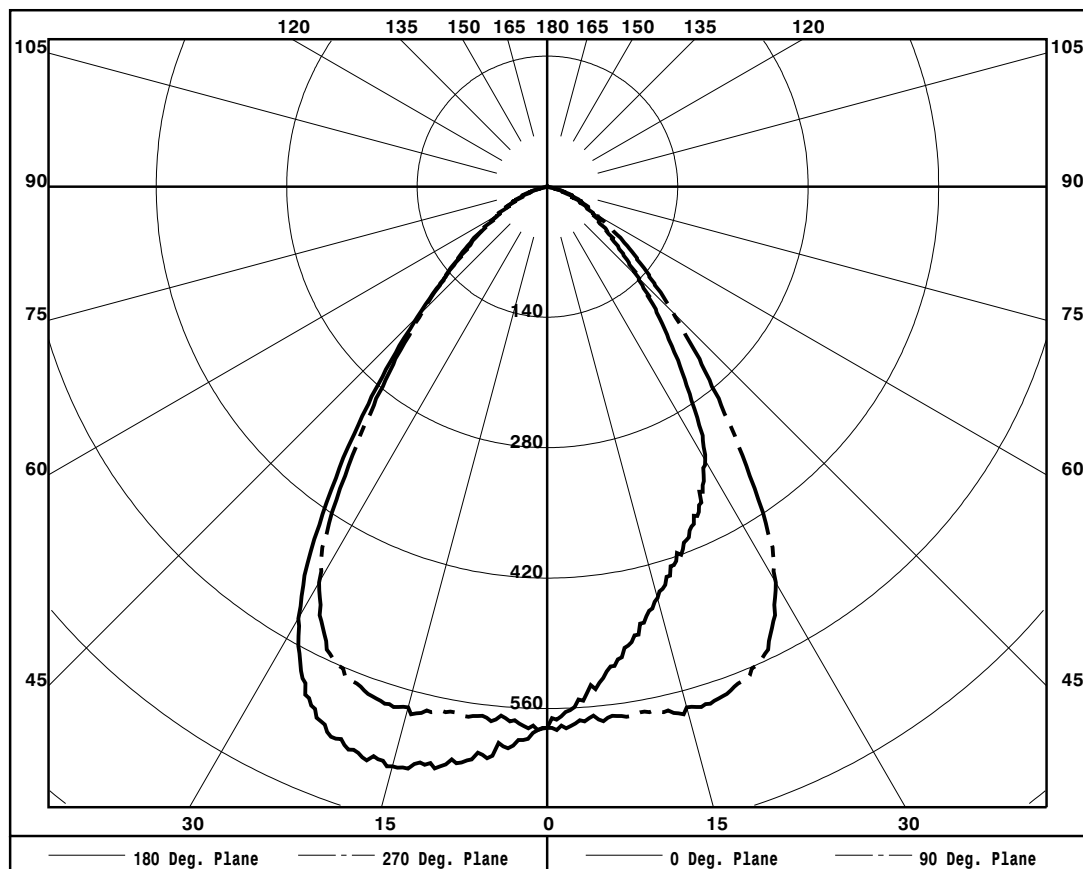
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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0
0	581	581	581	581	581	581	581	581	581
5	537	541	550	557	570	582	593	601	599
10	500	510	528	552	573	594	614	623	629
15	457	469	503	542	578	609	625	639	644
20	420	439	486	534	575	607	626	633	637
25	385	410	460	512	553	582	598	604	606
30	339	357	403	452	490	510	522	531	535
35	260	277	312	353	379	391	397	406	414
40	192	201	224	253	271	278	281	288	294
45	141	143	162	178	190	197	198	202	198
50	99	110	117	125	136	139	141	144	131
55	69	78	81	89	96	94	95	95	91
60	58	50	59	59	63	62	63	59	59
65	38	38	38	44	42	46	42	40	38
70	22	23	27	26	28	28	30	27	26
75	8	8	8	12	11	11	12	8	8
80	0	0	0	0	1	2	1	1	2
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	14.
5- 10	41.
10- 15	67.
15- 20	93.
20- 25	114.
25- 30	126.
30- 35	122.
35- 40	102.
40- 45	79.
45- 50	61.
50- 55	46.
55- 60	32.
60- 65	23.
65- 70	17.
70- 75	10.
75- 80	2.
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	40
1	44	43	42	41	43	42	41	40	41	40	39	39	39	38	38	37	37	36
2	42	40	38	36	41	39	37	36	38	36	35	36	35	34	35	34	33	33
3	39	36	34	32	38	36	34	32	35	33	31	34	32	31	33	31	30	30
4	37	33	31	29	36	33	30	28	32	30	28	31	29	28	30	29	27	27
5	34	30	28	25	33	30	27	25	29	27	25	28	26	25	28	26	25	24
6	32	28	25	23	31	28	25	23	27	25	23	26	24	23	26	24	22	22
7	30	26	23	21	29	25	23	21	25	22	21	24	22	20	24	22	20	20
8	28	23	21	19	27	23	20	19	23	20	18	22	20	18	22	20	18	18
9	26	21	19	17	25	21	18	17	21	18	17	20	18	16	20	18	16	16
10	24	20	17	15	24	19	17	15	19	17	15	19	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	54	53	59	62	51	48	53	54
20	30	59	52	51	53	55	46	44	47
20	40	59	56	50	49	55	50	44	42
20	60	59	56	55	50	56	50	48	43
30	20	58	54	58	60	55	50	53	55
30	30	61	53	50	51	58	49	44	47
30	40	61	56	49	47	58	51	44	42
30	60	61	56	54	48	58	51	48	42
30	80	61	56	54	48	58	51	48	45
40	20	62	57	59	60	61	54	56	56
40	30	65	57	51	51	62	53	47	48
40	40	65	59	51	47	62	55	46	43
40	60	65	59	54	48	62	55	49	43
40	80	65	59	54	48	62	55	49	45
40	100	65	59	54	48	62	55	49	45
60	30	65	60	53	52	62	54	49	49
60	40	65	62	53	47	62	56	49	44
60	60	65	62	56	49	62	56	51	45
60	80	65	62	56	49	62	56	51	46
60	100	65	62	56	49	62	56	51	46
100	40	65	62	57	53	62	56	52	50
100	60	65	62	59	54	62	56	53	51
100	80	65	62	59	54	63	56	53	52
100	100	65	62	59	54	63	56	53	52



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CIRCLE-OF-LIGHT

Ft below	FC nadir	Dia @ 50%
6.0	16.1	7.0
8.0	9.1	9.4
10.0	5.8	11.7
12.0	4.0	14.1
14.0	3.0	16.4
16.0	2.3	18.8

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