



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 06206

DATE: 10-27-2001

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 6HF1X42E1-6602SCL-A

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

LAMP: ONE SYLVANIA CF42DT/E/IN/841 RATED AT 3200 LUMENS.

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

MOUNTING: RECESSED

TOTAL INPUT WATTS = 47.8 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	664	664	664	664	664	664	664	664	664	
5	600	613	633	659	680	709	727	739	738	65
15	433	502	614	667	694	775	855	881	863	201
25	258	329	504	601	671	796	909	961	910	310
35	213	327	471	603	683	749	817	881	908	398
45	287	352	412	475	512	527	553	551	521	365
55	308	338	353	333	305	254	197	168	156	198
65	4	4	4	2	1	1	1	0	0	3
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	576	18.0	37.4
0- 40	974	30.4	63.3
0- 60	1537	48.0	99.8
0- 90	1540	48.1	100.0
90-180	0	0.0	0.0
0-180	1540	48.1	100.0

TOTAL LUMINAIRE EFFICIENCY: 48.1%

CIE TYPE: DIRECT

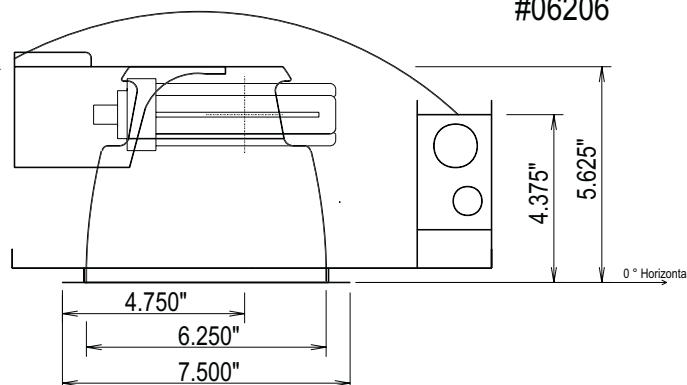
PLANE: 0-DEG 90-DEG 180-DEG

SPACING CRITERIA: 0.6 1.5 1.7

LUMINOUS DIAMETER: 6.250

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	33544.	33544.	33544.
45	20504.	29435.	36579.
55	27127.	31091.	26863.
65	478.	478.	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.



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 06206

DATE: 10-27-2001

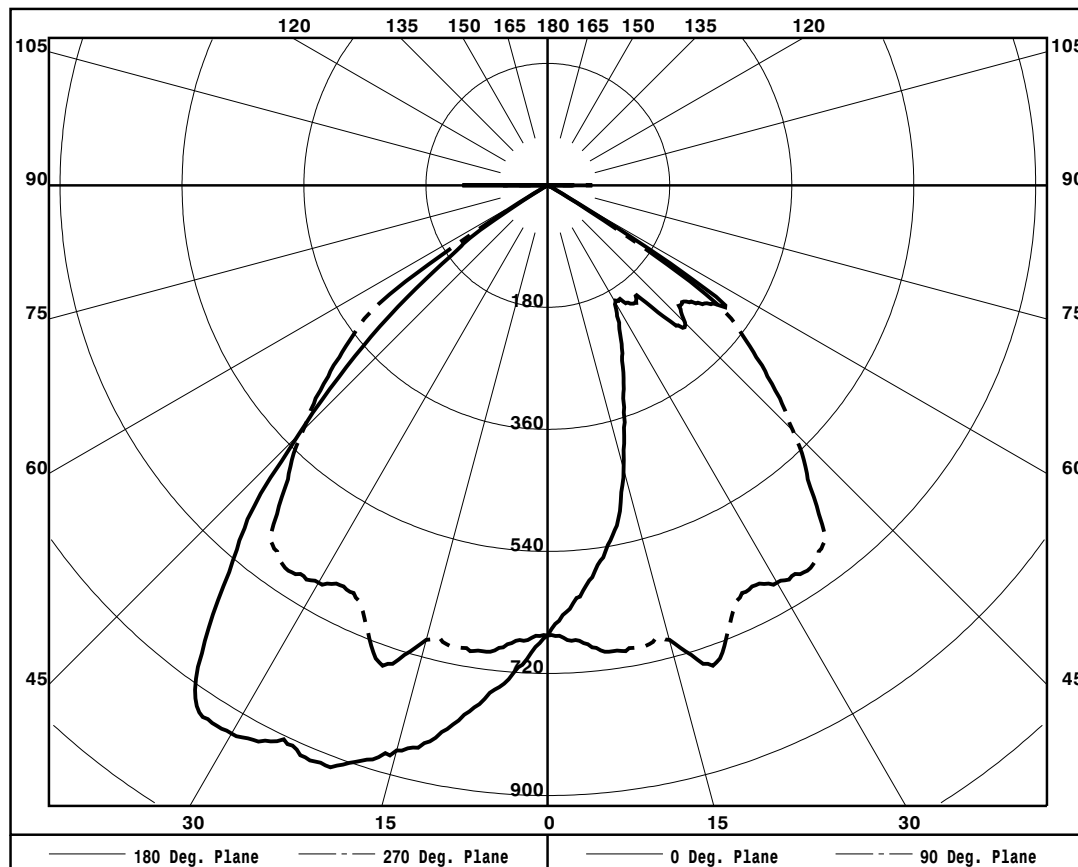
PREPARED FOR: VANTAGE LUMINAIRES

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0
0	664	664	664	664	664	664	664	664	664
5	600	613	633	659	680	709	727	739	738
10	532	566	630	668	693	756	799	815	807
15	433	502	614	667	694	775	855	881	863
20	326	397	571	660	743	813	867	917	911
25	258	329	504	601	671	796	909	961	910
30	200	324	470	594	677	802	873	946	934
35	213	327	471	603	683	749	817	881	908
40	226	353	507	599	617	669	713	752	724
45	287	352	412	475	512	527	553	551	521
50	267	309	358	391	413	392	351	334	324
55	308	338	353	333	305	254	197	168	156
60	38	40	36	31	23	15	10	9	9
65	4	4	4	2	1	1	1	0	0
70	1	1	1	1	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	16.
5- 10	49.
10- 15	84.
15- 20	117.
20- 25	143.
25- 30	168.
30- 35	190.
35- 40	208.
40- 45	197.
45- 50	168.
50- 55	136.
55- 60	62.
60- 65	2.
65- 70	0.
70- 75	0.
75- 80	0.
80- 85	0.
85- 90	0.





LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 06206

DATE: 10-27-2001

PREPARED FOR: VANTAGE LUMINAIRES

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	57	57	57	57	56	56	56	56	53	53	53	51	51	51	49	49	49	48
1	54	53	51	50	53	51	50	49	49	48	48	48	47	46	46	45	45	44
2	51	48	46	44	50	47	45	43	46	44	42	44	43	41	43	42	41	40
3	48	44	41	39	46	43	40	38	42	40	38	41	39	37	39	38	37	36
4	44	40	37	34	43	39	36	34	38	36	33	37	35	33	36	34	33	32
5	41	36	33	30	40	36	32	30	35	32	30	34	31	29	33	31	29	28
6	38	33	29	27	37	32	29	27	32	29	26	31	28	26	30	28	26	25
7	35	30	26	23	34	29	26	23	29	25	23	28	25	23	27	25	23	22
8	32	27	23	20	32	26	23	20	26	23	20	25	22	20	25	22	20	19
9	30	24	20	18	29	24	20	18	23	20	18	23	20	18	22	19	17	17
10	28	22	18	16	27	21	18	16	21	18	16	20	18	15	20	17	15	15

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.



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 06206

DATE: 10-27-2001

PREPARED FOR: VANTAGE LUMINAIRES

VISUAL COMFORT PROBABILITY TABLE

RATED LUMENS PER LAMP 3200.

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	67	39	27	31	61	38	27	21
20	30	67	39	36	37	61	38	31	28
20	40	67	39	36	43	61	38	31	28
20	60	67	39	36	43	61	38	32	28
30	20	67	39	35	28	61	38	34	22
30	30	67	39	41	34	61	38	38	29
30	40	67	39	41	39	61	38	38	29
30	60	67	39	41	39	61	38	38	29
30	80	67	39	41	39	61	38	38	29
40	20	67	39	35	32	61	38	34	26
40	30	67	39	41	39	61	38	38	34
40	40	67	39	41	43	61	38	38	34
40	60	67	39	41	43	61	38	38	34
40	80	67	39	41	43	61	38	38	34
40	100	67	39	41	43	61	38	38	34
60	30	67	39	41	39	61	38	38	33
60	40	67	39	41	43	61	38	38	33
60	60	67	39	41	43	61	38	38	34
60	80	67	39	41	43	61	38	38	34
60	100	67	39	41	43	61	34	38	34
100	40	67	39	41	43	61	38	38	34
100	60	67	39	41	43	61	34	38	34
100	80	67	39	41	43	62	34	38	34
100	100	67	39	41	43	62	34	38	34



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL TEST #06206

CIRCLE-OF-LIGHT

Ft below	FC nadir	Dia @ 50%
6.0	18.4	8.7
8.0	10.4	11.5
10.0	6.6	14.4
12.0	4.6	17.3
14.0	3.4	20.2
16.0	2.6	23.1

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