



# 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: 06658

DATE: 04-30-2002

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 5VF113E1-05000SCL

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

LAMP: ONE SYLVANIA CF13DD/E/835 RATED AT 900 LUMENS.

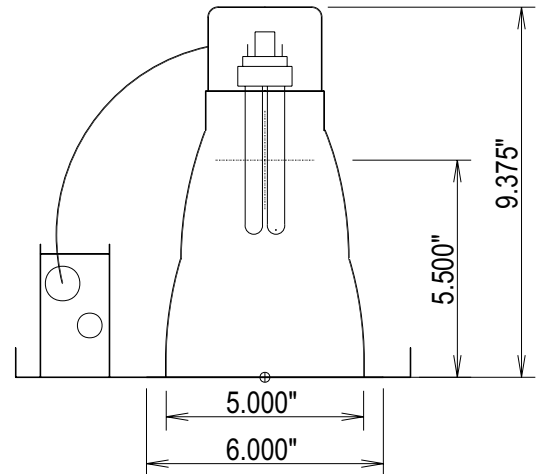
BALLAST: ONE ADVACNE ICF-2S13-H1-LD

MOUNTING: RECESSED

TOTAL INPUT WATTS = 14.9 AT 120.0 VOLTS

#06658

DEG	CANDELA	LUMENS
0	168	
5	180	17
15	163	47
25	177	82
35	166	103
45	126	96
55	66	59
65	13	12
75	0	0
85	0	0
90	0	



## ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	145	16.1	34.9
0- 40	248	27.6	59.7
0- 60	404	44.8	97.1
0- 90	416	46.2	100.0
90-180	0	0.0	0.0
0-180	416	46.2	100.0

TOTAL LUMINAIRE EFFICIENCY: 46.2%

CIE TYPE: DIRECT

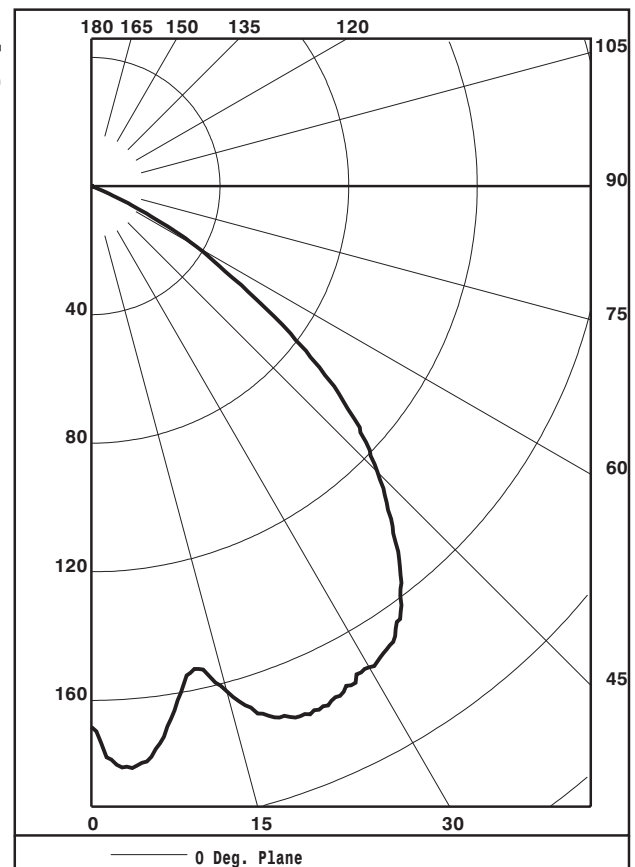
LUMINAIRE SPACING CRITERION = 1.4

LUMINOUS DIAMETER: 5.000

## LUMINANCE IN CANDELA PER SQUARE METER

ANGLE AVERAGE

IN DEG	
0	13261.
45	14066.
55	9083.
65	2428.
75	0.
85	0.



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	50	30	10	0
0	55	55	55	55	54	54	54	54	51	51	51	49	49	49	47	47	47	46	46	46	46
1	52	50	49	48	51	49	48	47	47	46	45	46	45	44	44	43	43	42	42	42	42
2	49	46	43	42	47	45	43	41	43	42	40	42	41	39	41	39	38	38	38	38	38
3	45	42	39	36	44	41	38	36	40	37	35	38	36	35	37	36	34	34	34	34	34
4	42	38	34	32	41	37	34	32	36	33	31	35	33	31	34	32	31	30	30	30	30
5	39	34	30	28	38	33	30	28	32	30	27	32	29	27	31	29	27	26	26	26	26
6	36	31	27	25	35	30	27	24	29	26	24	29	26	24	28	26	24	23	23	23	23
7	33	28	24	21	32	27	24	21	27	24	21	26	23	21	25	23	21	20	20	20	20
8	30	25	21	19	30	24	21	19	24	21	18	23	20	18	23	20	18	17	17	17	17
9	28	22	19	16	27	22	18	16	21	18	16	21	18	16	20	18	16	15	15	15	15
10	26	20	17	14	25	20	16	14	19	16	14	19	16	14	19	16	14	13	13	13	13

CANDELA DISTRIBUTION

	0.0
0	168
5	180
10	160
15	163
20	175
25	177
30	173
35	166
40	148
45	126
50	101
55	66
60	38
65	13
70	0
75	0
80	0
85	0
90	0

ZONAL LUMEN SUMMARY

0- 5	4.
5- 10	12.
10- 15	18.
15- 20	28.
20- 25	37.
25- 30	44.
30- 35	50.
35- 40	53.
40- 45	51.
45- 50	46.
50- 55	37.
55- 60	23.
60- 65	12.
65- 70	1.
70- 75	0.
75- 80	0.
80- 85	0.
85- 90	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 900.

100. FC. ROOM		REFLECTANCES 80/50/20 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	63	53	46	47	63	53	46	47
20	30	63	53	54	44	63	53	54	44
20	40	63	53	54	44	63	53	54	44
20	60	63	53	54	44	63	53	54	44
30	20	63	57	49	47	63	57	49	47
30	30	63	57	54	44	63	57	54	44
30	40	63	57	55	44	63	57	55	44
30	60	63	57	55	44	63	57	55	44
30	80	63	57	55	44	63	57	55	44
40	20	63	57	49	50	63	57	49	50
40	30	63	57	54	47	63	57	54	47
40	40	63	57	55	47	63	57	55	47
40	60	63	57	55	47	63	57	55	47
40	80	64	57	55	47	64	57	55	47
40	100	64	57	55	47	64	57	55	47
60	30	63	57	54	50	63	57	54	50
60	40	63	57	55	50	63	57	55	50
60	60	64	57	55	50	64	57	55	50
60	80	64	57	55	50	64	57	55	50
60	100	64	57	55	50	64	57	55	50
100	40	64	57	55	50	64	57	55	50
100	60	64	57	55	50	64	57	55	50
100	80	64	57	55	50	64	57	55	50
100	100	64	57	55	50	64	57	55	50

THIS TABLE WAS CALCULATED ACCORDING TO IESNA LM-42-72. THE VCP CALCULATION PROCEDURE IS MOST ACCURATE FOR LUMINAIRES 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 LUMINAIRES THAT DO NOT CONFORM TO THE ABOVE CONDITIONS.



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LTL TEST #06658

CIRCLE-OF-LIGHT

Ft below	FC nadir	Dia @ 50%
6.0	4.7	8.9
8.0	2.6	11.8
10.0	1.7	14.8
12.0	1.2	17.7
14.0	0.9	20.7
16.0	0.7	23.6

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