



# 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: 06129

DATE: 09-12-2001

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 7VF1X13E1-7000SCL

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

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

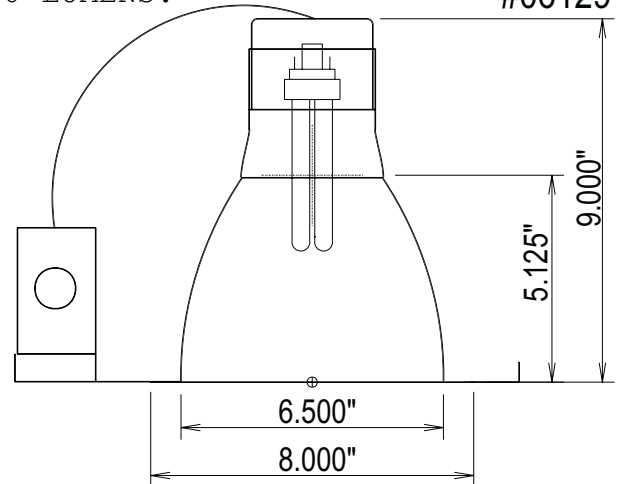
BALLAST: ONE ADVANCE ICF-2S13-H1-LD

MOUNTING: RECESSED

TOTAL INPUT WATTS = 15.2 AT 120.0 VOLTS

#06129

DEG	CANDELA	LUMENS
0	442	
5	492	46
15	365	103
25	313	141
35	205	128
45	89	68
55	9	11
65	0	0
75	0	0
85	0	0
90	0	



## ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	290	32.2	58.3
0- 40	417	46.4	84.0
0- 60	497	55.2	100.0
0- 90	497	55.2	100.0
90-180	0	0.0	0.0
0-180	497	55.2	100.0

TOTAL LUMINAIRE EFFICIENCY: 55.2%

CIE TYPE: DIRECT

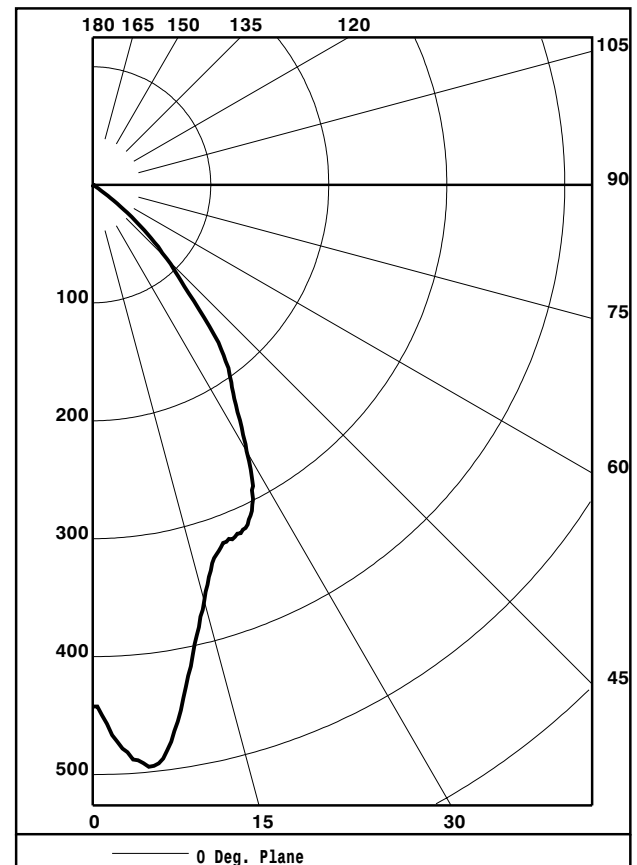
LUMINAIRE SPACING CRITERION = 1.0

LUMINOUS DIAMETER: 6.500

## LUMINANCE IN CANDELA PER SQUARE METER

ANGLE AVERAGE

IN DEG	
0	20645.
45	5879.
55	733.
65	0.
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	0
0	66	66	66	66	64	64	64	64	61	61	61	59	59	59	56	56	56	55
1	63	61	60	59	61	60	59	58	58	57	56	56	55	54	54	53	53	52
2	60	57	55	53	58	56	54	52	54	52	51	52	51	50	51	50	49	48
3	56	53	50	48	55	52	50	47	51	48	47	49	47	46	48	47	45	44
4	53	49	46	44	52	48	46	43	47	45	43	46	44	42	45	43	42	41
5	50	46	42	40	49	45	42	40	44	41	39	43	41	39	42	40	39	38
6	48	43	39	37	47	42	39	37	41	38	36	40	38	36	40	38	36	35
7	45	40	36	34	44	39	36	34	38	36	33	38	35	33	37	35	33	32
8	42	37	33	31	41	36	33	31	36	33	30	35	32	30	34	32	30	29
9	39	34	30	28	39	33	30	28	33	30	28	32	29	27	32	29	27	27
10	37	31	28	25	36	31	27	25	30	27	25	30	27	25	29	27	25	24

CANDELA DISTRIBUTION

	0.0
0	442
5	492
10	442
15	365
20	323
25	313
30	261
35	205
40	147
45	89
50	46
55	9
60	0
65	0
70	0
75	0
80	0
85	0
90	0

ZONAL LUMEN SUMMARY

0- 5	11.
5- 10	35.
10- 15	47.
15- 20	55.
20- 25	67.
25- 30	74.
30- 35	67.
35- 40	61.
40- 45	41.
45- 50	27.
50- 55	11.
55- 60	0.
60- 65	0.
65- 70	0.
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. 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	94	93	92	79	94	93	92	79
20	30	94	93	93	79	94	93	93	79
20	40	95	93	93	79	95	93	93	79
20	60	95	93	90	80	95	93	90	80
30	20	94	93	93	81	94	93	93	81
30	30	95	93	90	81	95	93	90	81
30	40	95	93	91	81	95	93	91	81
30	60	95	93	91	81	95	93	91	81
30	80	95	93	91	82	95	93	91	82
40	20	95	93	93	81	95	93	93	81
40	30	95	93	91	81	95	93	91	81
40	40	95	93	91	81	95	93	91	81
40	60	95	93	91	82	95	93	91	82
40	80	95	94	91	82	95	94	91	82
40	100	95	94	91	82	95	94	91	82
60	30	95	93	91	81	95	93	91	81
60	40	95	93	91	82	95	93	91	82
60	60	95	94	91	82	95	94	91	82
60	80	95	94	91	82	95	94	91	82
60	100	95	94	91	82	95	94	91	82
100	40	95	94	91	82	95	94	91	82
100	60	95	94	91	82	95	94	91	82
100	80	95	94	91	82	95	94	91	82
100	100	95	94	91	82	95	94	91	82



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LTL TEST #06129

CIRCLE-OF-LIGHT

Ft below	FC nadir	Dia @ 50%
6.0	12.3	5.9
8.0	6.9	7.8
10.0	4.4	9.8
12.0	3.1	11.7
14.0	2.3	13.7
16.0	1.7	15.6

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