



# 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: 05854

DATE: 06-15-2001

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 6HF218E-06616SCL

LUMINAIRE: FORMED STEEL HOUSING, SPUN SEMI-SPECULAR ALUMINUM REFLECTOR,  
CLEAR GLASS PRISMATIC LENS ABOVE SPUN SPECULAR ALUMINUM  
LOWER REFLECTOR.

LAMPS: TWO SYLVANIA CF18DD/E/835 RATED AT 1250 LUMENS EACH.

BALLAST: ONE ADVANCE ICF-2S18-H1-LD

MOUNTING: RECESSED

TOTAL INPUT WATTS = 35.7 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

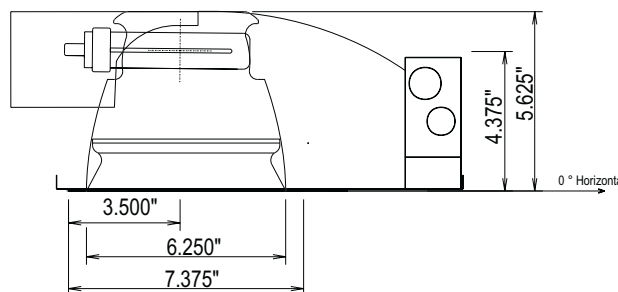
#05854

## CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	529	529	529	529	529
5	529	537	558	584	593
15	484	588	653	680	687
25	389	486	562	583	582
35	212	274	349	339	328
45	167	169	214	253	258
55	98	104	108	116	119
65	45	48	50	53	54
75	14	16	16	17	17
85	0	0	0	0	0
90	0	0	0	0	0

## FLUX

56
176
238
196
161
98
51
18
0



## ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	470	18.8	47.2
0- 40	666	26.6	66.9
0- 60	926	37.0	93.1
0- 90	995	39.8	100.0
90-180	0	0.0	0.0
0-180	995	39.8	100.0

TOTAL LUMINAIRE EFFICIENCY:

39.8%

CIE TYPE: DIRECT

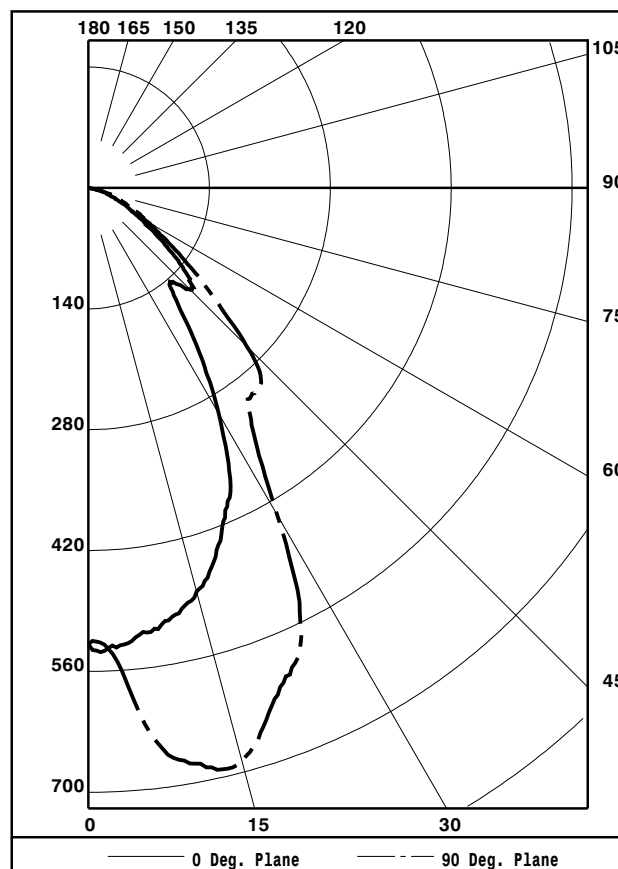
PLANE: 0-DEG 90-DEG

SPACING CRITERIA: 1.0 1.2

LUMINOUS DIAMETER: 6.250

## LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	26724.	26724.	26724.
45	11931.	15289.	18433.
55	8631.	9512.	10481.
65	5379.	5977.	6455.
75	2733.	3123.	3318.
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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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	41	41	41	40
1	45	43	42	41	44	42	41	40	41	40	39	39	39	38	38	37	37	36
2	42	39	38	36	41	39	37	35	37	36	35	36	35	34	35	34	33	33
3	39	36	34	32	38	35	33	31	34	33	31	33	32	30	32	31	30	29
4	37	33	30	28	36	32	30	28	32	29	28	31	29	27	30	28	27	26
5	34	30	27	25	33	30	27	25	29	26	25	28	26	24	27	26	24	24
6	32	28	25	23	31	27	24	22	27	24	22	26	24	22	25	23	22	21
7	30	25	22	20	29	25	22	20	24	22	20	24	22	20	23	21	20	19
8	28	23	20	18	27	23	20	18	22	20	18	22	20	18	21	19	18	17
9	26	21	18	16	25	21	18	16	20	18	16	20	18	16	20	17	16	15
10	24	19	16	15	24	19	16	15	19	16	15	18	16	14	18	16	14	14

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	529	529	529	529	529
5	529	537	558	584	593
10	509	574	648	674	677
15	484	588	653	680	687
20	440	545	621	637	630
25	389	486	562	583	582
30	302	384	456	446	437
35	212	274	349	339	328
40	146	189	290	315	303
45	167	169	214	253	258
50	143	147	157	172	177
55	98	104	108	116	119
60	66	72	74	79	82
65	45	48	50	53	54
70	28	29	32	35	36
75	14	16	16	17	17
80	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	13.
5- 10	43.
10- 15	75.
15- 20	101.
20- 25	117.
25- 30	121.
30- 35	104.
35- 40	92.
40- 45	88.
45- 50	74.
50- 55	57.
55- 60	42.
60- 65	30.
65- 70	21.
70- 75	14.
75- 80	5.
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 1250.

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	43	44	48	54	40	39	42	44
20	30	46	42	42	45	43	37	36	37
20	40	46	45	40	41	43	40	35	33
20	60	46	45	44	41	43	40	38	34
30	20	46	46	48	52	44	42	43	45
30	30	47	43	41	43	45	39	36	37
30	40	47	45	39	39	45	41	35	33
30	60	47	45	43	39	45	41	39	33
30	80	47	45	43	39	46	41	39	33
40	20	50	49	49	53	48	45	46	47
40	30	51	46	42	43	49	43	38	39
40	40	51	47	40	39	49	44	37	34
40	60	51	47	43	38	49	44	40	34
40	80	51	47	43	38	49	44	40	34
40	100	51	47	43	38	49	44	40	34
60	30	51	48	44	44	49	46	41	41
60	40	51	49	42	40	49	47	39	36
60	60	51	50	44	39	49	47	41	35
60	80	51	50	44	39	49	47	41	36
60	100	51	50	44	39	49	47	41	36
100	40	51	49	46	44	49	47	44	41
100	60	51	49	48	43	49	47	45	40
100	80	51	49	48	43	49	47	45	40
100	100	51	50	48	43	49	47	45	40



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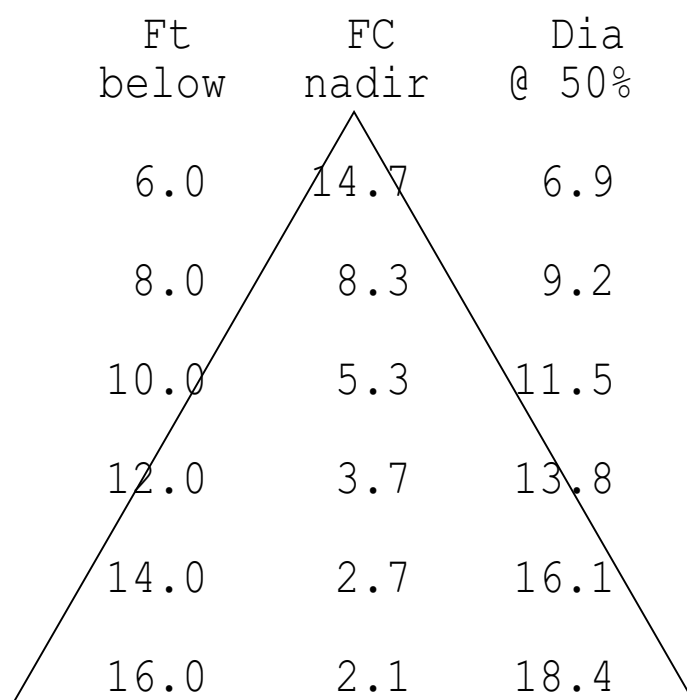


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LTL TEST #05854

CIRCLE-OF-LIGHT



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