



# 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: 05853

DATE: 06-15-2001

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 6HF218E-06614SCL

LUMINAIRE: FORMED STEEL HOUSING, SPUN SEMI-SPECULAR ALUMINUM REFLECTOR,  
CLEAR ACRYLIC 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 = 34.8 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

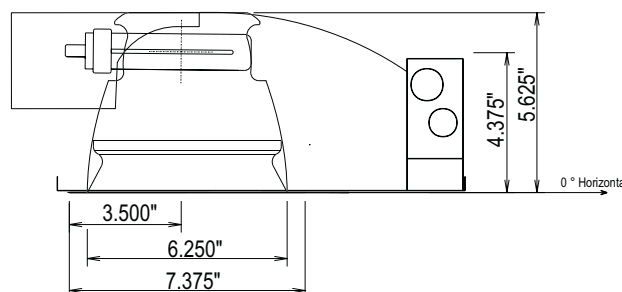
#05853

## CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	580	580	580	580	580
5	583	580	583	581	577
15	548	554	574	589	589
25	480	493	523	543	541
35	339	351	372	387	383
45	199	198	208	218	218
55	93	95	100	101	101
65	44	45	47	49	49
75	14	15	17	19	19
85	0	0	0	0	0
90	0	0	0	0	0

## FLUX

55
162
237
230
159
90
47
17
0



## ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	454	18.1	45.5
0- 40	683	27.3	68.6
0- 60	933	37.3	93.6
0- 90	996	39.8	100.0
90-180	0	0.0	0.0
0-180	996	39.8	100.0

TOTAL LUMINAIRE EFFICIENCY: 39.8%

CIE TYPE: DIRECT

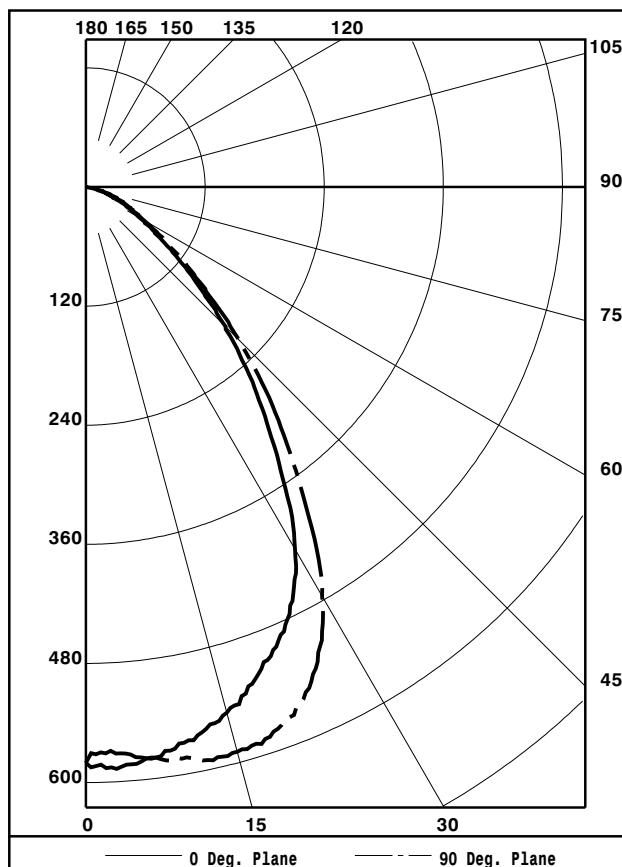
PLANE: 0-DEG 90-DEG

SPACING CRITERIA: 1.1 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	29301.	29301.	29301.
45	14217.	14860.	15575.
55	8191.	8808.	8896.
65	5260.	5618.	5857.
75	2733.	3318.	3709.
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](http://www.LuminaireTesting.com)

LTL NUMBER: 05853

DATE: 06-15-2001

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

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	580	580	580	580	580
5	583	580	583	581	577
10	569	572	580	586	583
15	548	554	574	589	589
20	517	528	554	575	577
25	480	493	523	543	541
30	421	434	459	477	476
35	339	351	372	387	383
40	264	267	283	298	297
45	199	198	208	218	218
50	140	139	145	151	152
55	93	95	100	101	101
60	63	64	67	70	69
65	44	45	47	49	49
70	28	32	32	33	34
75	14	15	17	19	19
80	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	14.
5- 10	42.
10- 15	69.
15- 20	93.
20- 25	113.
25- 30	124.
30- 35	122.
35- 40	108.
40- 45	90.
45- 50	69.
50- 55	52.
55- 60	38.
60- 65	28.
65- 70	19.
70- 75	13.
75- 80	4.
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.



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: 05853

DATE: 06-15-2001

PREPARED FOR: VANTAGE LUMINAIRES

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



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 TEST #05853

CIRCLE-OF-LIGHT

Ft below	FC nadir	Dia @ 50%
6.0	16.1	7.0
8.0	9.1	9.3
10.0	5.8	11.7
12.0	4.0	14.0
14.0	3.0	16.3
16.0	2.3	18.7

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