



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING  
MEMBER

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

LTL NUMBER: 05112

DATE: 4-12-2000

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 8HF2X18E8614SCL/SCL

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

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

BALLAST: ONE ACE CSD-118PBM

MOUNTING: RECESSED

TOTAL INPUT WATTS = 29.3 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

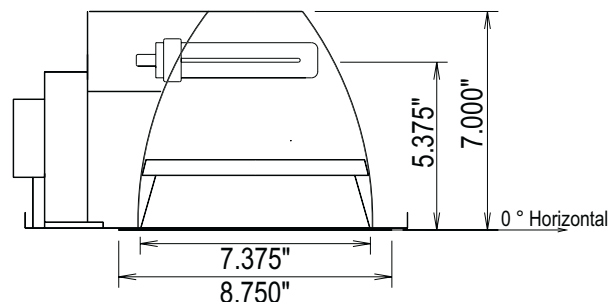
#05112

#### CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	752	752	752	752	752
5	730	734	733	733	733
15	646	648	653	659	661
25	546	555	572	594	604
35	375	386	409	429	433
45	194	198	211	216	216
55	111	111	114	115	116
65	43	44	45	46	48
75	9	9	9	10	11
85	0	0	0	0	0
90	0	0	0	0	0

#### FLUX

69
185
264
253
163
101
46
10
0



#### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	517	20.7	47.5
0- 40	770	30.8	70.7
0- 60	1034	41.4	94.9
0- 90	1089	43.6	100.0
90-180	0	0.0	0.0
0-180	1089	43.6	100.0

TOTAL LUMINAIRE EFFICIENCY: 43.6%

CIE TYPE: DIRECT

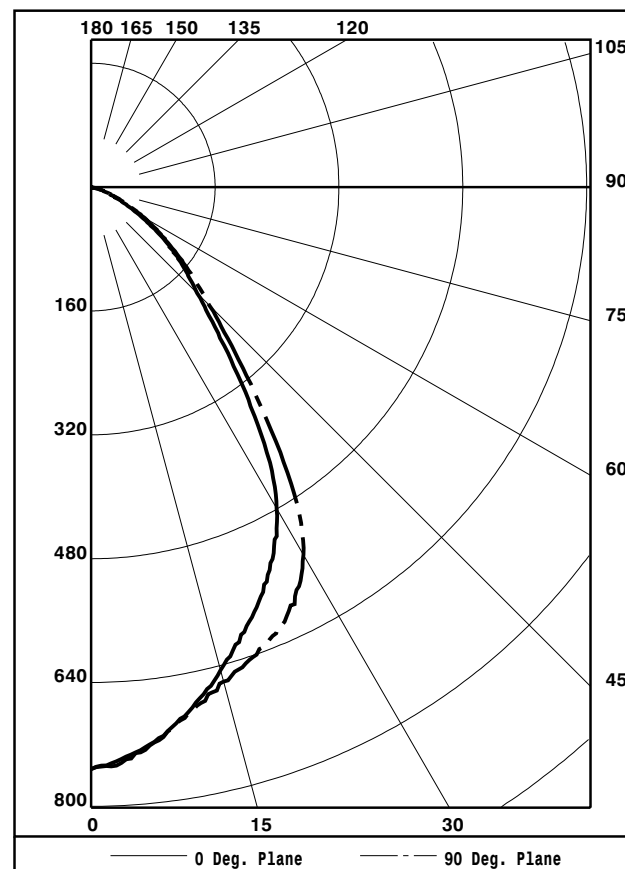
PLANE: 0-DEG 90-DEG

SPACING CRITERIA: 1.0 1.1

LUMINOUS DIAMETER: 7.375

#### LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	27284.	27284.	27284.
45	9954.	10826.	11083.
55	7021.	7211.	7338.
65	3692.	3863.	4121.
75	1262.	1262.	1542.
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	50	30	10	0
0	52	52	52	52	51	51	51	51	48	48	48	46	46	46	45	45	45	44	44	44	44
1	49	48	46	45	48	47	46	45	45	44	43	43	43	42	42	41	41	40	40	40	40
2	46	44	42	40	45	43	41	39	41	40	39	40	39	38	39	38	37	36	36	36	36
3	43	40	37	35	42	39	37	35	38	36	35	37	35	34	36	35	33	33	33	33	33
4	40	37	34	32	40	36	33	31	35	33	31	34	32	31	33	32	30	29	29	29	29
5	38	33	30	28	37	33	30	28	32	30	28	31	29	27	31	29	27	26	26	26	26
6	35	31	28	25	35	30	27	25	30	27	25	29	27	25	28	26	25	24	24	24	24
7	33	28	25	23	32	28	25	23	27	25	23	27	24	23	26	24	22	22	22	22	22
8	31	26	23	20	30	26	23	20	25	22	20	24	22	20	24	22	20	19	19	19	19
9	29	24	20	18	28	23	20	18	23	20	18	22	20	18	22	20	18	17	17	17	17
10	27	22	19	17	26	21	18	16	21	18	16	21	18	16	20	18	16	16	16	16	16

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	752	752	752	752	752
5	730	734	733	733	733
10	694	696	697	694	696
15	646	648	653	659	661
20	597	601	611	628	635
25	546	555	572	594	604
30	479	491	514	539	548
35	375	386	409	429	433
40	267	278	296	303	305
45	194	198	211	216	216
50	151	149	156	159	161
55	111	111	114	115	116
60	72	75	73	76	80
65	43	44	45	46	48
70	26	25	26	26	25
75	9	9	9	10	11
80	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	18.
5- 10	51.
10- 15	80.
15- 20	104.
20- 25	125.
25- 30	139.
30- 35	138.
35- 40	115.
40- 45	91.
45- 50	72.
50- 55	58.
55- 60	43.
60- 65	28.
65- 70	18.
70- 75	9.
75- 80	1.
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.