



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 05111

DATE: 4-12-2000

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 8HF2X18E8650SCL/BL

LUMINAIRE: FORMED STEEL HOUSING, SPUN SEMI-SPECULAR ALUMINUM
REFLECTOR, 2" DEEP SPUN BLACK ENAMEL ALUMINUM BAFFLE.

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

BALLAST: ONE ACE CSD-118PBM

MOUNTING: RECESSED

TOTAL INPUT WATTS = 31.4 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	FLUX
0	518	518	518	518	518	518	518	518	518	
5	546	570	619	656	671	657	632	618	603	61
15	554	621	706	754	744	796	789	737	671	200
25	427	527	576	587	590	600	614	583	517	264
35	354	413	476	512	529	537	521	475	438	302
45	274	325	395	437	447	451	442	401	373	309
55	74	74	85	80	86	90	84	76	73	102
65	8	8	8	9	8	8	8	8	8	7
75	3	3	3	2	2	3	3	3	3	3
85	0	0	0	0	0	0	0	0	0	1
90	0	0	0	0	0	0	0	0	0	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	525	21.0	42.1
0- 40	827	33.1	66.3
0- 60	1238	49.5	99.2
0- 90	1249	49.9	100.0
90-180	0	0.0	0.0
0-180	1249	49.9	100.0

TOTAL LUMINAIRE EFFICIENCY:

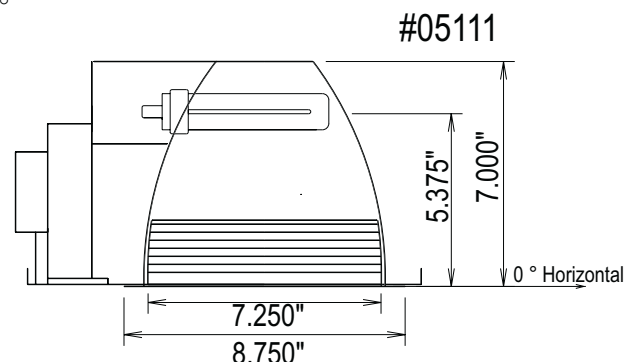
49.9%

CIE TYPE: DIRECT

LUMINOUS DIAMETER: 7.250

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	19447.	19447.	19447.
45	14548.	20972.	23733.
55	4844.	5564.	5629.
65	711.	711.	711.
75	435.	435.	290.
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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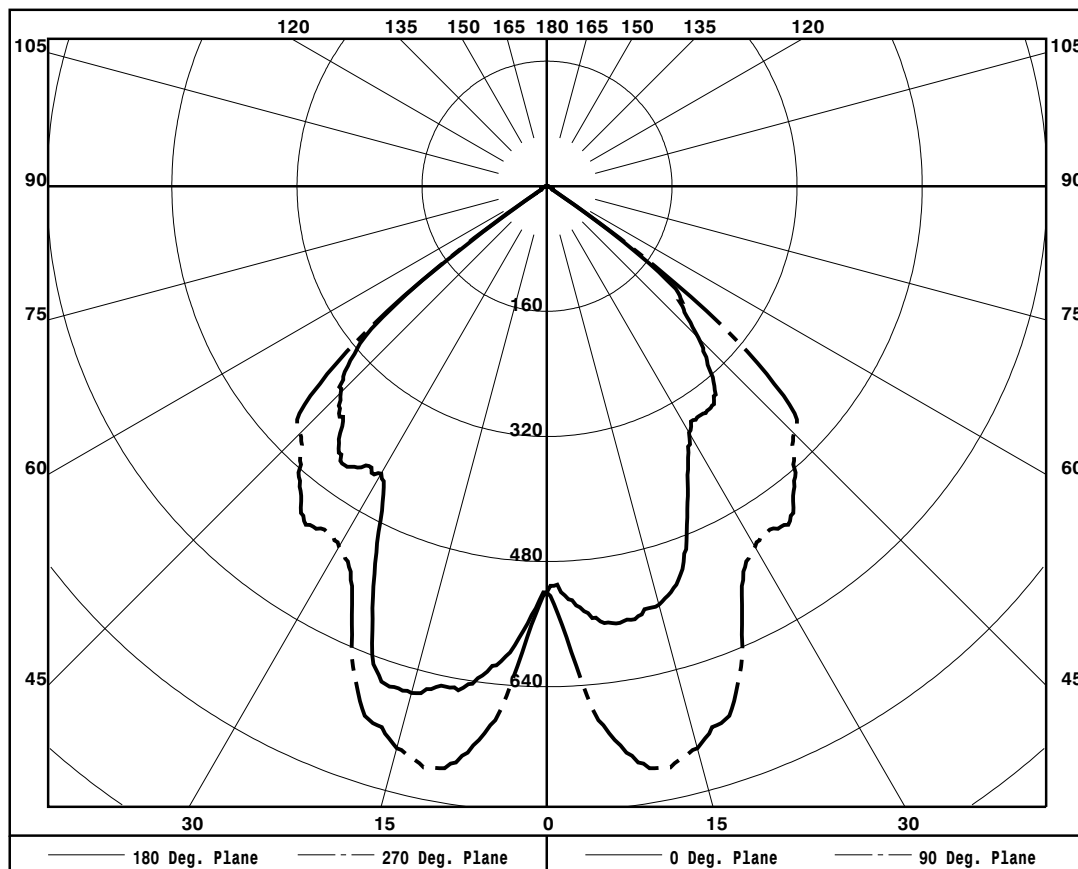
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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0
0	518	518	518	518	518	518	518	518	518
5	546	570	619	656	671	657	632	618	603
10	565	608	679	730	756	764	732	680	654
15	554	621	706	754	744	796	789	737	671
20	511	585	650	684	701	719	722	690	650
25	427	527	576	587	590	600	614	583	517
30	364	468	524	534	533	552	550	516	424
35	354	413	476	512	529	537	521	475	438
40	333	386	436	473	492	501	495	465	412
45	274	325	395	437	447	451	442	401	373
50	223	248	294	338	351	349	330	300	313
55	74	74	85	80	86	90	84	76	73
60	7	8	8	8	8	8	8	8	7
65	8	8	8	9	8	8	8	8	8
70	7	7	7	6	6	6	6	7	6
75	3	3	3	2	2	3	3	3	3
80	1	1	1	1	1	1	1	1	1
85	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	13.
5- 10	48.
10- 15	84.
15- 20	116.
20- 25	129.
25- 30	135.
30- 35	145.
35- 40	157.
40- 45	160.
45- 50	149.
50- 55	94.
55- 60	8.
60- 65	4.
65- 70	3.
70- 75	3.
75- 80	1.
80- 85	1.
85- 90	0.





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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	59	59	59	59	58	58	58	58	56	56	56	53	53	53	51	51	51	50
1	56	55	53	52	55	54	52	51	52	50	50	50	49	48	48	47	47	46
2	53	50	48	46	52	49	47	45	48	46	44	46	45	43	45	44	43	42
3	50	46	43	41	49	45	43	40	44	42	40	43	41	39	41	40	39	38
4	46	42	39	36	45	41	38	36	40	38	36	39	37	35	38	36	35	34
5	43	38	35	32	42	38	35	32	37	34	32	36	33	32	35	33	31	30
6	40	35	31	29	40	35	31	29	34	31	29	33	30	28	32	30	28	27
7	37	32	28	26	37	31	28	26	31	28	25	30	27	25	30	27	25	24
8	35	29	25	23	34	28	25	23	28	25	22	27	24	22	27	24	22	21
9	32	26	22	20	31	26	22	20	25	22	20	25	22	20	24	21	19	19
10	30	24	20	18	29	23	20	18	23	20	17	22	19	17	22	19	17	17

NOTE: THE ZONAL CAVITY CALCULATION TECHNIQUE IS ACCURATE WHEN LUMINAIRES WITH SYMMETRIC CANDELA DISTRIBUTIONS ARE EMPLOYED AND WHEN THE LUMINAIRES ARE LOCATED SYMMETRICALLY THROUGHOUT THE ROOM. THIS UNIT HAS SPECIAL CHARACTERISTICS AND THEREFORE THESE COEFFICIENTS SHOULD BE USED WITH CAUTION.

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.