



# 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: 06415

DATE: 12-28-2001

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 8HF2X26E-8700SCL

LUMINAIRE: FORMED STEEL HOUSING, SPUN SPECULAR AND HAMMERTONE ALUMINUM  
REFLECTOR WITH SEMI-SPECULAR WALL WASH SECTION, NO ENCLOSURE.

LAMPS: TWO SYLVANIA CF26DD/E/835 RATED AT 1800 LUMENS EACH.

BALLAST: ONE ADVANCE ICF-2S26-H1-LD

MOUNTING: RECESSED

TOTAL INPUT WATTS = 51.0 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PERPENDICULAR TO THE LAMPS.

## CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	FLUX
0	671	671	671	671	671	671	671	671	671	
5	693	690	678	674	678	697	716	735	730	68
15	764	790	781	727	702	797	878	910	852	226
25	673	699	726	702	650	772	837	803	764	341
35	648	660	683	653	527	701	799	793	783	436
45	625	627	610	573	563	648	745	803	801	508
55	456	458	451	408	424	448	495	527	527	392
65	207	200	171	120	51	40	32	29	25	106
75	89	88	79	48	15	10	11	13	11	42
85	19	19	20	16	7	8	8	8	9	11
90	0	0	0	0	0	0	0	0	0	

## ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	634	17.6	29.8
0- 40	1070	29.7	50.3
0- 60	1970	54.7	92.5
0- 90	2129	59.1	100.0
90-180	0	0.0	0.0
0-180	2129	59.1	100.0

TOTAL LUMINAIRE EFFICIENCY: 59.1%

CIE TYPE: DIRECT

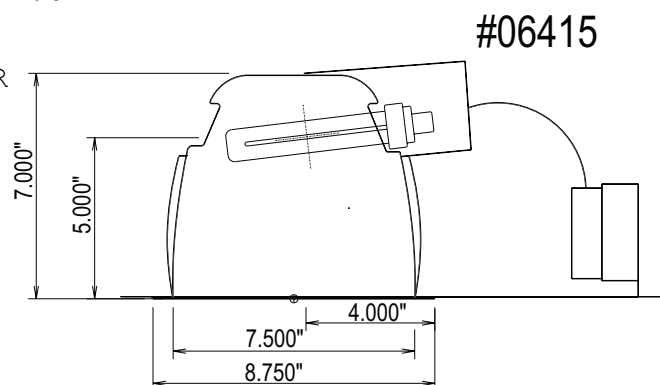
PLANE: 0-DEG 90-DEG 180-DEG

SPACING CRITERIA: 1.5 1.2 1.8

LUMINOUS DIAMETER: 7.500

## LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	23540.	23540.	23540.
45	31009.	30264.	27933.
55	27891.	27585.	25934.
65	17183.	14195.	4234.
75	12064.	10708.	2033.
85	7648.	8050.	2818.



TESTED BY HERSCHEL SCHRECK  
CHECKED BY MIKE GRATHER

THIS REPORT BASED ON LM-41 AND OTHER PERTINENT IES PROCEDURES.



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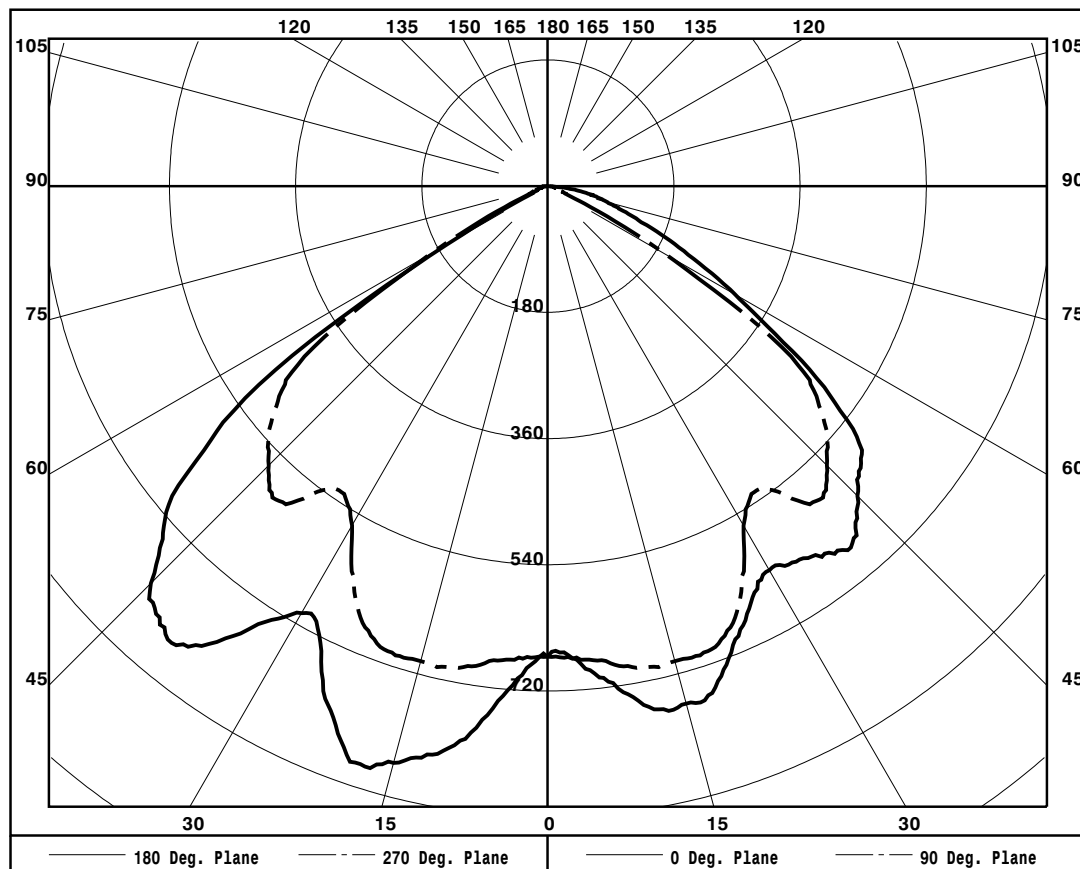
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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0
0	671	671	671	671	671	671	671	671	671
5	693	690	678	674	678	697	716	735	730
10	745	741	722	697	696	742	792	821	814
15	764	790	781	727	702	797	878	910	852
20	734	767	785	745	700	826	892	868	852
25	673	699	726	702	650	772	837	803	764
30	632	657	693	672	559	734	803	749	703
35	648	660	683	653	527	701	799	793	783
40	673	669	655	630	589	709	790	830	844
45	625	627	610	573	563	648	745	803	801
50	586	583	563	500	513	560	650	693	706
55	456	458	451	408	424	448	495	527	527
60	309	301	280	237	195	191	187	180	166
65	207	200	171	120	51	40	32	29	25
70	134	132	118	73	22	16	16	15	15
75	89	88	79	48	15	10	11	13	11
80	56	53	49	31	10	7	8	7	9
85	19	19	20	16	7	8	8	8	9
90	0	0	0	0	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	16.
5- 10	52.
10- 15	92.
15- 20	134.
20- 25	161.
25- 30	179.
30- 35	202.
35- 40	233.
40- 45	254.
45- 50	254.
50- 55	233.
55- 60	158.
60- 65	70.
65- 70	36.
70- 75	25.
75- 80	17.
80- 85	10.
85- 90	1.





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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	70	70	70	70	69	69	69	69	66	66	66	63	63	63	60	60	60	59
1	66	64	62	60	64	62	60	59	60	58	57	57	56	55	55	54	54	52
2	61	57	54	51	60	56	53	51	54	52	49	52	50	48	50	49	47	46
3	57	51	47	44	55	50	47	44	49	46	43	47	45	42	46	44	42	40
4	52	46	42	38	51	45	41	38	44	40	37	43	39	37	41	39	36	35
5	48	41	36	33	47	40	36	33	39	35	32	38	35	32	37	34	32	30
6	44	37	32	28	43	36	32	28	35	31	28	34	31	28	33	30	28	26
7	40	33	28	25	39	32	28	24	32	27	24	31	27	24	30	27	24	23
8	37	29	24	21	36	29	24	21	28	24	21	27	24	21	27	23	21	20
9	34	26	21	18	33	26	21	18	25	21	18	24	21	18	24	20	18	17
10	31	24	19	16	31	23	19	16	23	18	16	22	18	16	22	18	15	14

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.