



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 05835

DATE: 05-23-2001

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 8HF226E-08600SCL

LUMINAIRE: FORMED STEEL HOUSING, SPUN SEMI-SPECULAR ALUMINUM REFLECTOR
WITH HAMMERTONE SECTION ABOVE LAMPS, NO ENCLOSURE.

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

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

MOUNTING: RECESSED

TOTAL INPUT WATTS = 47.6 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	766	766	766	766	766	766	766	766	766	
5	784	782	787	805	800	801	783	782	759	76
15	836	892	934	968	950	953	894	840	747	255
25	828	933	977	959	911	924	876	780	708	412
35	782	863	926	949	946	924	837	725	617	540
45	672	721	797	840	841	819	742	658	576	577
55	253	246	252	271	282	294	289	279	247	244
65	11	11	10	10	10	10	10	12	8	12
75	7	6	6	7	6	6	8	8	7	7
85	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	0

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	743	20.7	35.0
0- 40	1283	35.6	60.5
0- 60	2103	58.4	99.1
0- 90	2122	58.9	100.0
90-180	0	0.0	0.0
0-180	2122	58.9	100.0

TOTAL LUMINAIRE EFFICIENCY:

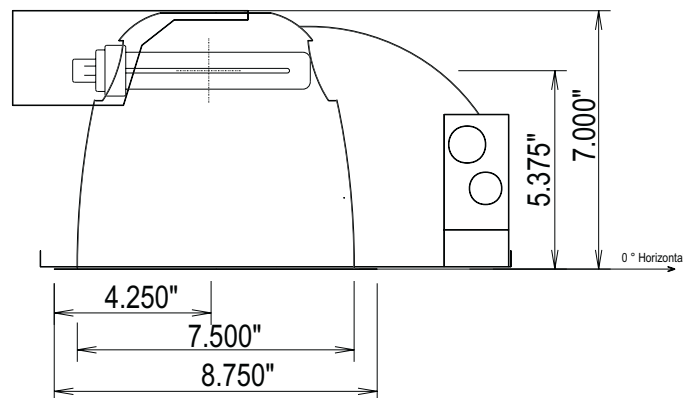
58.9%

CIE TYPE: DIRECT

LUMINOUS DIAMETER: 7.500

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	26873.	26873.	26873.
45	33340.	39542.	41725.
55	15474.	15413.	17248.
65	913.	830.	830.
75	949.	813.	813.
85	0.	0.	0.



#05835

TESTED BY HERSCHEL SCHRECK
CHECKED BY MIKE GRATHER

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



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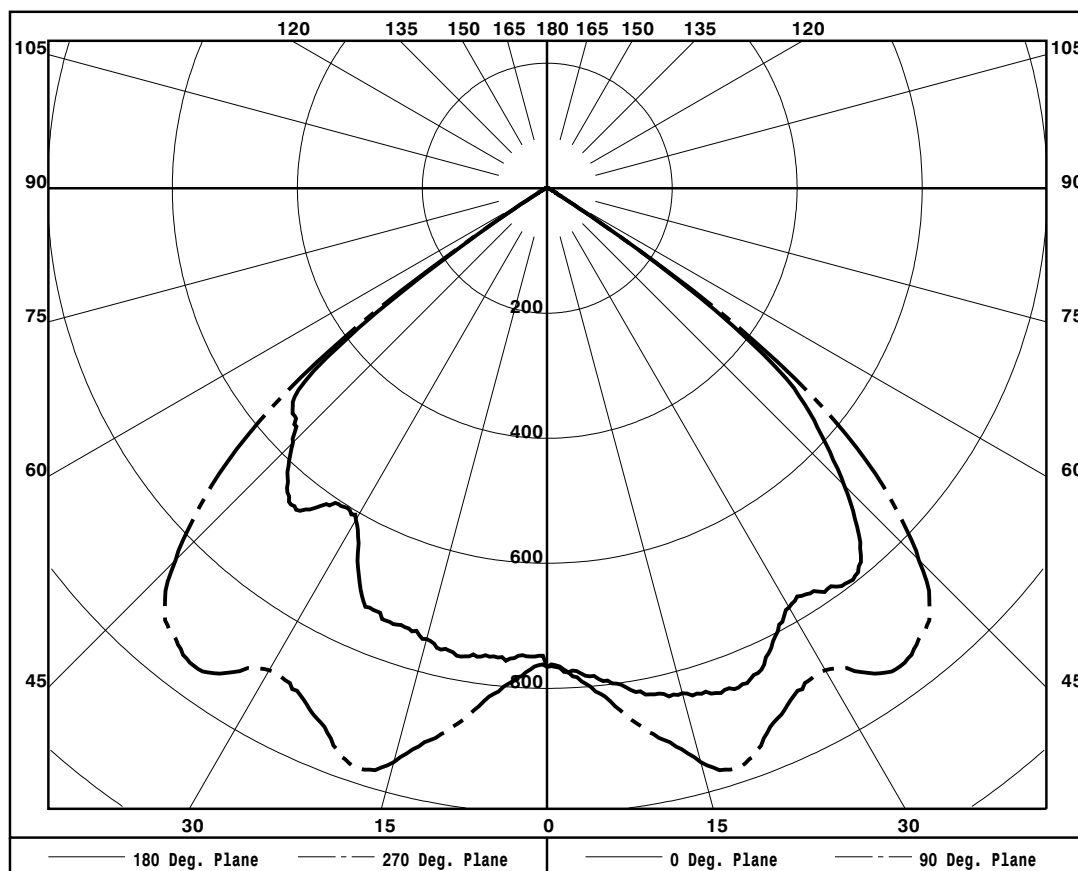
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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0
0	766	766	766	766	766	766	766	766	766
5	784	782	787	805	800	801	783	782	759
10	818	826	845	878	875	866	829	805	760
15	836	892	934	968	950	953	894	840	747
20	851	942	984	981	967	948	906	845	738
25	828	933	977	959	911	924	876	780	708
30	774	912	967	950	891	915	867	747	613
35	782	863	926	949	946	924	837	725	617
40	781	832	897	941	933	914	827	731	643
45	672	721	797	840	841	819	742	658	576
50	539	554	601	643	649	652	616	574	532
55	253	246	252	271	282	294	289	279	247
60	23	22	21	23	26	29	30	30	25
65	11	11	10	10	10	10	10	12	8
70	8	11	10	10	9	8	9	10	8
75	7	6	6	7	6	6	8	8	7
80	1	3	2	3	3	3	1	1	3
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	18.
5- 10	58.
10- 15	103.
15- 20	152.
20- 25	190.
25- 30	222.
30- 35	254.
35- 40	285.
40- 45	302.
45- 50	275.
50- 55	206.
55- 60	38.
60- 65	8.
65- 70	4.
70- 75	5.
75- 80	2.
80- 85	0.
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	70	70	70	70	69	69	69	69	66	66	66	63	63	63	60	60	60	59
1	66	64	62	61	65	63	61	60	61	59	58	58	57	56	56	55	55	54
2	62	59	56	53	61	58	55	53	56	53	52	54	52	51	52	51	49	48
3	58	53	50	47	57	53	49	47	51	48	46	49	47	45	48	46	44	43
4	54	48	44	41	53	48	44	41	46	43	41	45	42	40	44	42	40	39
5	50	44	39	36	49	43	39	36	42	38	36	41	38	35	40	37	35	34
6	46	40	35	32	45	39	35	32	38	34	32	37	34	31	36	33	31	30
7	43	36	31	28	42	35	31	28	34	31	28	34	30	28	33	30	27	26
8	39	32	27	24	38	32	27	24	31	27	24	30	27	24	29	26	24	23
9	36	28	24	21	35	28	24	21	27	23	21	27	23	21	26	23	20	19
10	33	26	21	18	32	25	21	18	25	21	18	24	21	18	24	20	18	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.



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VISUAL COMFORT PROBABILITY TABLE

RATED LUMENS PER LAMP 1800.

100. FC. ROOM		REFLECTANCES 80/50/20 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	62	51	36	22	59	48	33	19
20	30	65	54	44	29	62	51	40	25
20	40	65	58	48	34	67	55	45	30
20	60	65	58	52	38	67	55	49	34
30	20	68	58	45	25	65	55	41	22
30	30	70	61	51	32	68	58	48	29
30	40	70	64	55	37	71	61	52	34
30	60	70	64	58	41	71	61	55	38
30	80	70	64	58	45	71	61	55	42
40	20	72	63	51	31	70	61	47	28
40	30	74	65	56	38	72	63	53	35
40	40	74	67	59	43	74	66	57	40
40	60	74	67	62	46	74	66	60	43
40	80	74	67	62	50	74	66	60	47
40	100	74	67	62	50	74	66	60	47
60	30	75	67	60	41	73	66	57	40
60	40	75	70	63	46	75	68	60	44
60	60	75	70	65	49	74	69	63	47
60	80	75	70	65	53	74	69	63	50
60	100	75	70	65	53	73	69	63	50
100	40	75	70	66	51	75	68	63	49
100	60	75	70	68	54	73	68	65	52
100	80	74	70	68	57	73	68	65	55
100	100	74	70	68	58	73	69	65	55



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CIRCLE-OF-LIGHT

Ft below	FC nadir	Dia @ 50%
6.0	21.3	9.9
8.0	12.0	13.2
10.0	7.7	16.5
12.0	5.3	19.8
14.0	3.9	23.1
16.0	3.0	26.4

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