



# LUMINAIRE TESTING LABORATORY, INC.

IES SUSTAINING MEMBER

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

LTL NUMBER: 07000

DATE: 09-25-2002

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 8MH070H-8000SCL

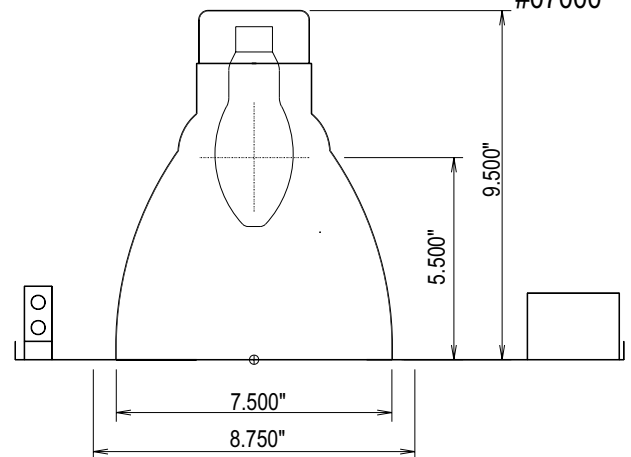
LUMINAIRE: FORMED STEEL HOUSING, SPUN SPECULAR ALUMINUM REFLECTOR,  
NO ENCLOSURE.

LAMP: ONE COATED SYLVANIA MP70/C/U/MED 70 WATT ED17 METAL HALIDE RATED  
AT 5000 LUMENS.

MOUNTING: RECESSED

#07000

DEG	CANDELA	LUMENS
0	3238	
5	3226	308
15	2825	791
25	2248	1016
35	1149	724
45	343	275
55	22	37
65	8	7
75	1	3
85	0	0
90	0	



ZONAL LUMEN SUMMARY			
ZONE	LUMENS	%LAMP	%FIXT
0- 30	2115	42.3	66.9
0- 40	2839	56.8	89.8
0- 60	3151	63.0	99.7
0- 90	3161	63.2	100.0
90-180	0	0.0	0.0
0-180	3161	63.2	100.0

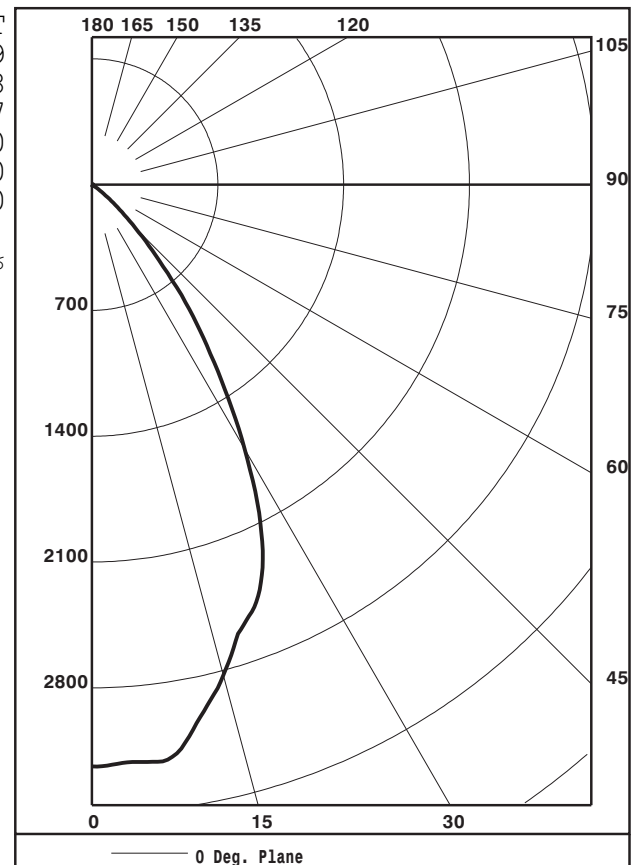
TOTAL LUMINAIRE EFFICIENCY: 63.2%  
CIE TYPE: DIRECT  
LUMINAIRE SPACING CRITERION = 0.9  
LUMINOUS DIAMETER: 7.500

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE AVERAGE

IN DEG

0	113596.
45	17018.
55	1346.
65	664.
75	136.
85	0.



TESTED BY HERSCHEL SCHRECK  
CHECKED BY MIKE GRATHER

THIS REPORT BASED ON LM-46 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	0
0	75	75	75	75	74	74	74	74	70	70	70	67	67	67	65	65	65	63
1	72	71	69	68	71	69	68	67	67	66	65	64	64	63	62	62	61	60
2	69	67	64	62	68	65	63	62	63	62	60	62	60	59	60	59	58	57
3	66	63	60	58	65	62	59	57	60	58	57	59	57	56	57	56	55	54
4	64	59	56	54	62	59	56	54	57	55	53	56	54	52	55	53	52	51
5	61	56	53	50	60	55	52	50	54	52	50	53	51	49	52	50	49	48
6	58	53	50	47	57	53	49	47	52	49	47	51	48	47	50	48	46	45
7	55	50	47	44	54	50	46	44	49	46	44	48	45	44	47	45	43	43
8	53	47	44	41	52	47	44	41	46	43	41	46	43	41	45	43	41	40
9	50	44	41	39	49	44	41	38	43	40	38	43	40	38	42	40	38	37
10	48	42	38	36	47	42	38	36	41	38	36	41	38	36	40	38	36	35

CANDELA DISTRIBUTION

	0.0
0	3238
5	3226
10	3118
15	2825
20	2555
25	2248
30	1700
35	1149
40	694
45	343
50	141
55	22
60	11
65	8
70	4
75	1
80	0
85	0
90	0

ZONAL LUMEN SUMMARY

0- 5	77.
5- 10	231.
10- 15	352.
15- 20	439.
20- 25	512.
25- 30	504.
30- 35	416.
35- 40	308.
40- 45	184.
45- 50	91.
50- 55	30.
55- 60	7.
60- 65	4.
65- 70	3.
70- 75	2.
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) 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. 2) THIS TEST WAS CONDUCTED IN A CONTROLLED LABORATORY ENVIRONMENT, FIELD PERFORMANCE MAY DIFFER.



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VISUAL COMFORT PROBABILITY TABLE

RATED LUMENS PER LAMP 5000.

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	93	85	81	54	93	85	81	54
20	30	94	86	84	61	94	86	84	61
20	40	94	86	86	66	94	86	86	66
20	60	94	86	86	66	94	86	86	66
30	20	94	87	85	61	94	87	85	61
30	30	94	88	87	67	94	88	87	67
30	40	94	88	88	71	94	88	88	71
30	60	94	88	88	71	94	88	88	71
30	80	94	88	88	71	94	88	88	71
40	20	94	87	86	64	94	87	86	64
40	30	94	88	88	71	94	88	88	71
40	40	94	88	89	74	94	88	89	74
40	60	95	88	89	74	95	88	89	74
40	80	95	88	89	74	95	88	89	74
40	100	95	88	89	74	95	88	89	74
60	30	94	88	88	73	94	88	88	73
60	40	95	88	89	76	95	88	89	76
60	60	95	88	89	77	95	88	89	77
60	80	95	88	89	77	95	88	89	77
60	100	95	88	89	77	95	88	89	77
100	40	95	88	89	77	95	88	89	77
100	60	95	88	89	77	95	88	89	77
100	80	95	88	89	77	95	88	89	77
100	100	95	88	89	77	95	88	89	77

THIS TABLE WAS CALCULATED ACCORDING TO IESNA LM-42-72. THE VCP CALCULATION PROCEDURE IS MOST ACCURATE FOR LUMINAIRES THAT EXHIBIT THE FOLLOWING CHARACTERISTICS. 1). LUMINAIRE IS RELATIVELY CONSISTANT IN LUMINANCE 2). LUMINAIRE HAS WELL-DEFINED LUMINOUS EDGES AND 3). LUMINAIRE UTILIZES FLUORESCENT LAMPS. CAUTION SHOULD BE USED WHEN APPLYING VCP VALUES BASED ON LUMINAIRES THAT DO NOT CONFORM TO THE ABOVE CONDITIONS.



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LTL TEST #07000

CIRCLE-OF-LIGHT

Ft below	FC nadir	Dia @ 50%
6.0	89.9	5.7
8.0	50.6	7.6
10.0	32.4	9.5
12.0	22.5	11.4
14.0	16.5	13.3
16.0	12.6	15.3

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