



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 06998

DATE: 09-25-2002

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 8MH150H-8000SCL

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

LAMP: ONE COATED SYLVANIA MP150/C/U/MED 150 WATT ED17 METAL HALIDE RATED
AT 11,500 LUMENS.

MOUNTING: RECESSED

DEG	CANDELA	LUMENS
0	5662	
5	5688	548
15	5811	1650
25	5730	2597
35	2888	1829
45	770	618
55	24	53
65	0	0
75	0	0
85	0	0
90	0	

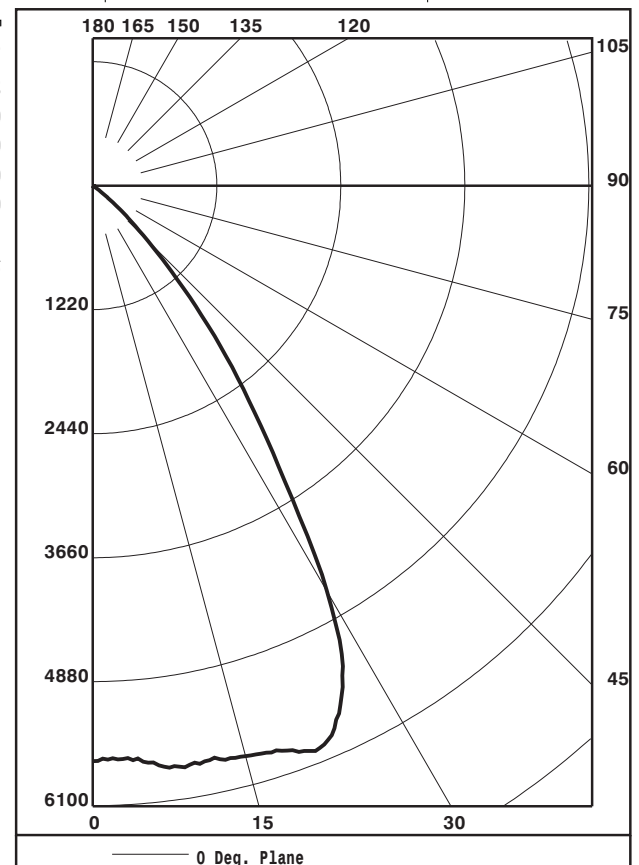
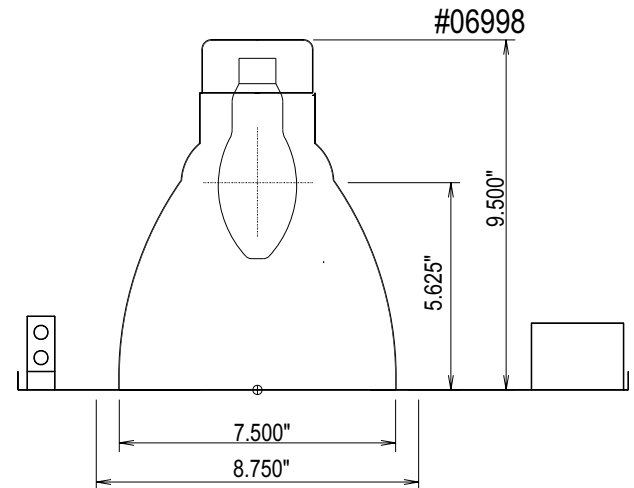
ZONAL LUMEN SUMMARY	
ZONE	LUMENS
0- 30	4795
0- 40	6624
0- 60	7295
0- 90	7295
90-180	0
0-180	7295

%LAMP
41.7
57.6
63.4
63.4
0.0
63.4

%FIXT
65.7
90.8
100.0
100.0
0.0
100.0

TOTAL LUMINAIRE EFFICIENCY: 63.4%
CIE TYPE: DIRECT
LUMINAIRE SPACING CRITERION = 1.0
LUMINOUS DIAMETER: 7.500

LUMINANCE IN CANDELA PER SQUARE METER
ANGLE AVERAGE
IN DEG
0 198636.
45 38203.
55 1468.
65 0.
75 0.
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	76	76	76	76	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	65	64	63	62	62	61	60
2	69	67	64	63	68	66	64	62	64	62	61	62	60	59	60	59	58	57
3	66	63	60	58	65	62	59	57	60	58	57	59	57	56	58	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	49	53	51	49	52	50	49	48
6	58	53	49	47	57	52	49	47	51	49	47	51	48	46	50	48	46	45
7	55	50	46	44	54	49	46	44	48	45	43	48	45	43	47	45	43	42
8	52	47	43	41	52	46	43	41	46	43	40	45	42	40	44	42	40	39
9	49	44	40	38	49	43	40	38	43	40	38	42	39	37	42	39	37	37
10	47	41	38	35	46	41	37	35	40	37	35	40	37	35	39	37	35	34

CANDELA DISTRIBUTION

	0.0
0	5662
5	5688
10	5765
15	5811
20	5930
25	5730
30	4601
35	2888
40	1660
45	770
50	266
55	24
60	0
65	0
70	0
75	0
80	0
85	0
90	0

ZONAL LUMEN SUMMARY

0- 5	135.
5- 10	413.
10- 15	686.
15- 20	964.
20- 25	1248.
25- 30	1349.
30- 35	1078.
35- 40	751.
40- 45	428.
45- 50	190.
50- 55	48.
55- 60	6.
60- 65	0.
65- 70	0.
70- 75	0.
75- 80	0.
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 11500.

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	76	63	62	31	76	63	62	31
20	30	76	63	62	32	76	63	62	32
20	40	76	63	63	32	76	63	63	32
20	60	76	63	63	32	76	63	63	32
30	20	76	63	62	40	76	63	62	40
30	30	76	63	63	40	76	63	63	40
30	40	77	64	63	41	77	64	63	41
30	60	77	64	63	41	77	64	63	41
30	80	77	64	63	41	77	64	63	41
40	20	76	63	63	40	76	63	63	40
40	30	77	64	63	41	77	64	63	41
40	40	77	64	63	41	77	64	63	41
40	60	77	64	64	41	77	64	64	41
40	80	77	64	64	41	77	64	64	41
40	100	77	64	64	42	77	64	64	42
60	30	77	64	63	41	77	64	63	41
60	40	77	64	64	41	77	64	64	41
60	60	77	64	64	42	77	64	64	42
60	80	77	64	64	42	77	64	64	42
60	100	77	64	64	42	77	64	64	42
100	40	77	64	64	42	77	64	64	42
100	60	77	64	64	42	77	64	64	42
100	80	77	65	64	42	77	65	64	42
100	100	77	65	64	42	77	65	64	42

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 #06998

CIRCLE-OF-LIGHT

Ft below	FC nadir	Dia @ 50%
6.0	157.3	7.1
8.0	88.5	9.4
10.0	56.6	11.8
12.0	39.3	14.1
14.0	28.9	16.5
16.0	22.1	18.8

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