



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 07001

DATE: 11-13-2002

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 8MH100H-8000SCL

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

LAMP: ONE COATED VENTURE MP100/C/U 100 WATT ED17 METAL HALIDE RATED
AT 7800 LUMENS.

MOUNTING: RECESSED

DEG	CANDELA	LUMENS
0	3762	
5	3816	371
15	4162	1169
25	3792	1707
35	1941	1224
45	606	484
55	78	79
65	10	7
75	0	0
85	0	0
90	0	

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	%LAMP	%FIXT
0- 30	3246	41.6	64.4
0- 40	4470	57.3	88.7
0- 60	5033	64.5	99.9
0- 90	5040	64.6	100.0
90-180	0	0.0	0.0
0-180	5040	64.6	100.0

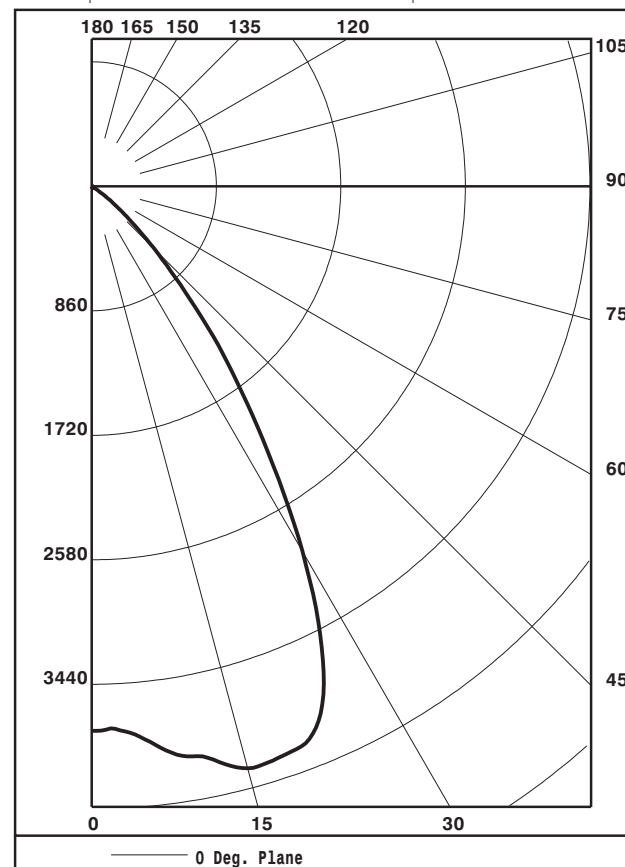
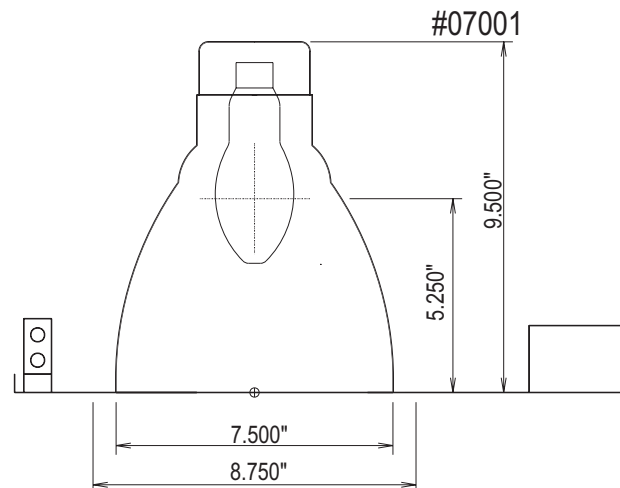
TOTAL LUMINAIRE EFFICIENCY: 64.6%
CIE TYPE: DIRECT
LUMINAIRE SPACING CRITERION = 1.0
LUMINOUS DIAMETER: 7.500

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE AVERAGE

IN DEG

0	131979.
45	30066.
55	4771.
65	830.
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	77	77	77	77	75	75	75	75	72	72	72	69	69	69	66	66	66	65
1	74	72	71	69	72	71	69	68	68	67	66	66	65	64	63	63	62	61
2	71	68	65	63	69	67	65	63	65	63	61	63	61	60	61	60	59	58
3	68	64	61	59	66	63	60	58	61	59	57	60	58	56	58	57	56	55
4	65	60	57	55	63	59	56	54	58	56	54	57	55	53	56	54	52	51
5	61	57	53	51	60	56	53	50	55	52	50	54	51	49	53	51	49	48
6	59	53	50	47	58	53	50	47	52	49	47	51	48	47	50	48	46	45
7	56	50	46	44	55	50	46	44	49	46	44	48	45	43	47	45	43	42
8	53	47	43	41	52	47	43	41	46	43	41	45	43	40	45	42	40	39
9	50	44	40	38	49	44	40	38	43	40	38	43	40	38	42	39	37	37
10	47	41	38	35	47	41	38	35	41	37	35	40	37	35	40	37	35	34

CANDELA DISTRIBUTION

	0.0
0	3762
5	3816
10	3999
15	4162
20	4136
25	3792
30	2906
35	1941
40	1182
45	606
50	266
55	78
60	16
65	10
70	1
75	0
80	0
85	0
90	0

ZONAL LUMEN SUMMARY

0- 5	90.
5- 10	281.
10- 15	483.
15- 20	686.
20- 25	849.
25- 30	858.
30- 35	708.
35- 40	516.
40- 45	317.
45- 50	167.
50- 55	69.
55- 60	10.
60- 65	5.
65- 70	2.
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 7800.

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	86	70	64	35	86	70	64	35
20	30	86	70	71	44	86	70	71	44
20	40	86	70	71	50	86	70	71	50
20	60	86	71	71	50	86	71	71	50
30	20	86	70	71	42	86	70	71	42
30	30	86	71	75	50	86	71	75	50
30	40	86	71	75	55	86	71	75	55
30	60	87	71	75	55	87	71	75	55
30	80	87	71	75	55	87	71	75	55
40	20	86	70	71	49	86	70	71	49
40	30	86	71	75	56	86	71	75	56
40	40	87	71	75	59	87	71	75	59
40	60	87	71	75	60	87	71	75	60
40	80	87	71	75	60	87	71	75	60
40	100	87	71	76	60	87	71	76	60
60	30	87	71	75	56	87	71	75	56
60	40	87	71	75	60	87	71	75	60
60	60	87	71	76	60	87	71	76	60
60	80	87	71	76	60	87	71	76	60
60	100	87	71	76	60	87	71	76	60
100	40	87	71	76	60	87	71	76	60
100	60	87	71	76	60	87	71	76	60
100	80	87	72	76	59	87	72	76	59
100	100	87	72	76	59	87	72	76	59

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 #07001

CIRCLE-OF-LIGHT

Ft below	FC nadir	Dia @ 50%
6.0	104.5	6.9
8.0	58.8	9.3
10.0	37.6	11.6
12.0	26.1	13.9
14.0	19.2	16.2
16.0	14.7	18.5

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