



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 05634

DATE: 03-14-2001

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 7MHO-100-07000SCL

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

LAMP: ONE COATED 100 WATT ED17 METAL HALIDE RATED AT 7800 LUMENS.

MOUNTING: RECESSED

#05634

DEG	CANDELA	LUMENS
0	3518	
5	3577	344
15	3741	1047
25	3120	1404
35	1864	1137
45	741	551
55	40	50
65	0	0
75	0	0
85	0	0
90	0	

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	%LAMP	%FIXT
0- 30	2795	35.8	61.6
0- 40	3932	50.4	86.7
0- 60	4533	58.1	100.0
0- 90	4534	58.1	100.0
90-180	0	0.0	0.0
0-180	4534	58.1	100.0

TOTAL LUMINAIRE EFFICIENCY: 58.1%

CIE TYPE: DIRECT

LUMINAIRE SPACING CRITERION = 1.0

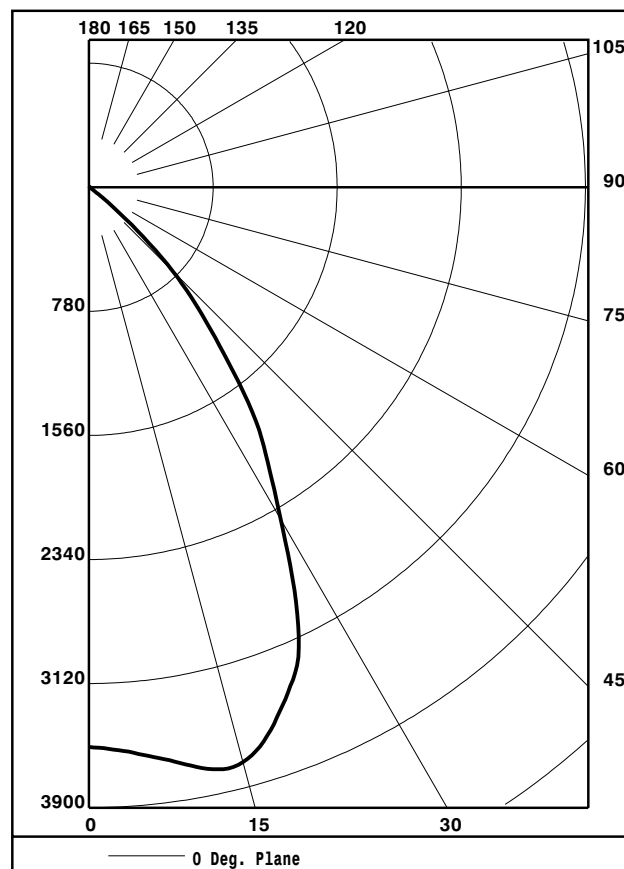
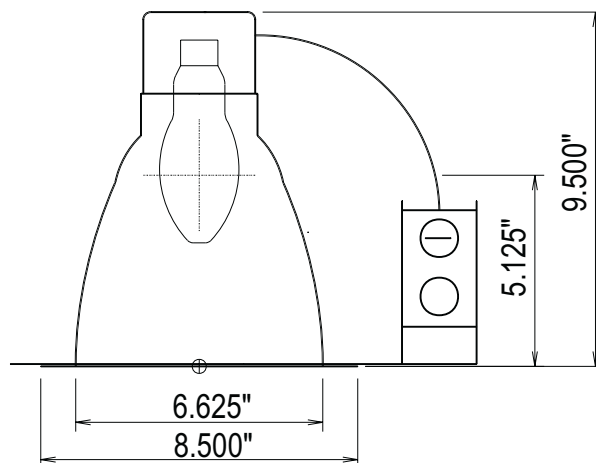
LUMINOUS DIAMETER: 6.625

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE AVERAGE

IN DEG

0	158174.
45	47116.
55	3135.
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	69	69	69	69	68	68	68	68	65	65	65	62	62	62	59	59	59	58
1	66	65	63	62	65	63	62	61	61	60	59	59	58	58	57	56	56	55
2	63	61	59	57	62	60	58	56	58	56	55	56	55	54	55	54	53	52
3	61	57	55	52	59	56	54	52	55	53	51	53	52	50	52	51	50	49
4	58	54	51	49	57	53	50	48	52	50	48	51	49	47	50	48	47	46
5	55	50	47	45	54	50	47	45	49	46	44	48	46	44	47	45	44	43
6	52	48	44	42	52	47	44	42	46	44	42	45	43	41	45	43	41	40
7	50	45	41	39	49	44	41	39	43	41	39	43	40	38	42	40	38	37
8	47	42	38	36	46	41	38	36	41	38	36	40	38	36	40	37	36	35
9	44	39	36	33	44	39	35	33	38	35	33	38	35	33	37	35	33	32
10	42	36	33	31	41	36	33	31	36	33	31	35	33	31	35	32	31	30

CANDELA DISTRIBUTION

	0.0
0	3518
5	3577
10	3692
15	3741
20	3505
25	3120
30	2411
35	1864
40	1232
45	741
50	233
55	40
60	2
65	0
70	0
75	0
80	0
85	0
90	0

ZONAL LUMEN SUMMARY

0- 5	85.
5- 10	259.
10- 15	445.
15- 20	602.
20- 25	703.
25- 30	701.
30- 35	623.
35- 40	515.
40- 45	364.
45- 50	187.
50- 55	46.
55- 60	4.
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 7800.

100. FC. REFLECTANCES 80/50/20

ROOM 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	69	53	50	25	69	53	50	25
20	30	69	53	51	26	69	53	51	26
20	40	69	53	51	26	69	53	51	26
20	60	70	53	51	26	70	53	51	26
30	20	69	53	51	33	69	53	51	33
30	30	70	53	51	33	70	53	51	33
30	40	70	54	51	34	70	54	51	34
30	60	70	54	52	34	70	54	52	34
30	80	70	54	52	34	70	54	52	34
40	20	69	53	51	33	69	53	51	33
40	30	70	54	51	34	70	54	51	34
40	40	70	54	52	34	70	54	52	34
40	60	70	54	52	34	70	54	52	34
40	80	70	54	52	34	70	54	52	34
40	100	70	54	52	34	70	54	52	34
60	30	70	54	52	34	70	54	52	34
60	40	70	54	52	34	70	54	52	34
60	60	70	54	52	34	70	54	52	34
60	80	70	54	52	35	70	54	52	35
60	100	70	54	52	35	70	54	52	35
100	40	70	54	52	34	70	54	52	34
100	60	71	54	53	35	71	54	53	35
100	80	71	55	53	35	71	55	53	35
100	100	71	55	53	35	71	55	53	35



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LTL TEST #05634

CIRCLE-OF-LIGHT

Ft below	FC nadir	Dia @ 50%
6.0	97.7	6.6
8.0	55.0	8.8
10.0	35.2	10.9
12.0	24.4	13.1
14.0	17.9	15.3
16.0	13.7	17.5

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