



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 07050

DATE: 12-18-2002

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: A8MHE50-A8014SCL/WH

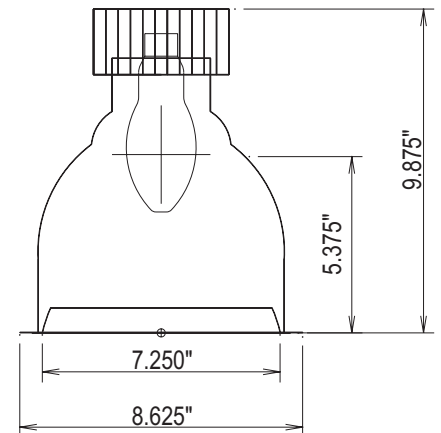
LUMINAIRE: FORMED STEEL HOUSING, SPUN SPECULAR ALUMINUM REFLECTOR,
CLEAR PRISMATIC GLASS LENS ABOVE SPUN WHITE ENAMEL ALUMINUM
LOWER REFLECTOR.

LAMP: ONE COATED VENTURE MP50/C/U/3K 50 WATT ED17 METAL HALIDE RATED
AT 3400 LUMENS.

MOUNTING: RECESSED

#07050

DEG	CANDELA	LUMENS
0	1781	
5	1732	162
15	1402	391
25	920	421
35	486	305
45	229	179
55	111	102
65	63	64
75	35	37
85	2	7
90	0	



ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	975	28.7	58.4
0- 40	1280	37.6	76.7
0- 60	1561	45.9	93.5
0- 90	1669	49.1	100.0
90-180	0	0.0	0.0
0-180	1669	49.1	100.0

TOTAL LUMINAIRE EFFICIENCY: 49.1%

CIE TYPE: DIRECT

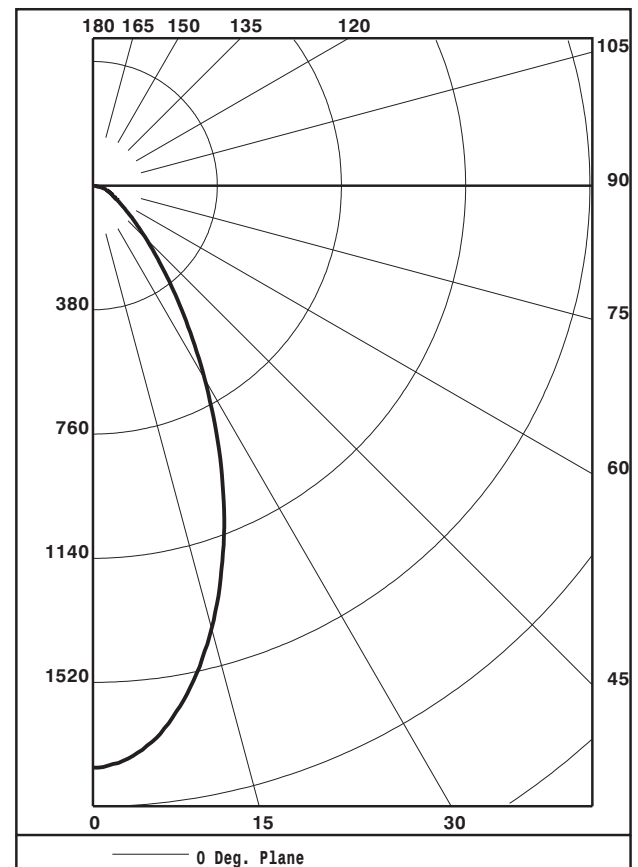
LUMINAIRE SPACING CRITERION = 0.8

LUMINOUS DIAMETER: 7.250

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE AVERAGE

IN DEG	
0	66865.
45	12159.
55	7266.
65	5597.
75	5077.
85	862.



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	58	58	58	58	57	57	57	57	55	55	55	52	52	52	50	50	50	49
1	55	54	53	51	54	53	52	51	51	50	49	49	48	48	47	47	46	45
2	53	50	48	46	51	49	47	46	48	46	45	46	45	44	45	44	43	42
3	50	47	44	42	49	46	44	42	45	43	41	43	42	40	42	41	40	39
4	47	44	41	39	46	43	40	38	42	40	38	41	39	37	40	38	37	36
5	45	41	38	36	44	40	37	35	39	37	35	38	36	35	38	36	34	34
6	43	38	35	33	42	38	35	33	37	35	33	36	34	32	36	34	32	32
7	40	36	33	31	40	35	33	30	35	32	30	34	32	30	34	32	30	29
8	38	34	31	29	38	33	30	28	33	30	28	32	30	28	32	30	28	27
9	36	32	29	27	36	31	28	27	31	28	26	30	28	26	30	28	26	26
10	35	30	27	25	34	30	27	25	29	27	25	29	26	25	28	26	25	24

CANDELA DISTRIBUTION

	0.0
0	1781
5	1732
10	1598
15	1402
20	1169
25	920
30	683
35	486
40	334
45	229
50	159
55	111
60	83
65	63
70	52
75	35
80	18
85	2
90	0

ZONAL LUMEN SUMMARY

0- 5	42.
5- 10	120.
10- 15	179.
15- 20	212.
20- 25	219.
25- 30	202.
30- 35	171.
35- 40	135.
40- 45	103.
45- 50	77.
50- 55	57.
55- 60	44.
60- 65	35.
65- 70	29.
70- 75	22.
75- 80	15.
80- 85	6.
85- 90	1.

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 3400.

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	43	47	55	58	43	47	55	58
20	30	37	38	44	49	37	38	44	49
20	40	36	35	38	41	36	35	38	41
20	60	37	36	35	37	37	36	35	37
30	20	43	47	54	57	43	47	54	57
30	30	37	38	43	48	37	38	43	48
30	40	36	35	37	39	36	35	37	39
30	60	37	35	34	35	37	35	34	35
30	80	40	38	33	34	40	38	33	34
40	20	45	48	55	58	45	48	55	58
40	30	39	40	43	48	39	40	43	48
40	40	38	37	37	39	38	37	37	39
40	60	39	36	34	35	39	36	34	35
40	80	42	39	33	34	42	39	33	34
40	100	44	41	35	34	44	41	35	34
60	30	41	42	44	48	41	42	44	48
60	40	40	38	37	40	40	38	37	40
60	60	41	37	34	34	41	37	34	34
60	80	44	40	33	33	44	40	33	33
60	100	46	42	35	33	46	42	35	33
100	40	45	43	40	42	45	43	40	42
100	60	47	42	37	37	47	42	37	37
100	80	49	44	36	35	49	44	36	35
100	100	51	46	37	35	51	46	37	35

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 #07050

CIRCLE-OF-LIGHT

Ft below	FC nadir	Dia @ 50%
6.0	49.5	4.7
8.0	27.8	6.3
10.0	17.8	7.8
12.0	12.4	9.4
14.0	9.1	11.0
16.0	7.0	12.5

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