



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 07052

DATE: 12-12-2002

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: A8MHE70-A8014SCL/WH

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

LAMP: ONE COATED SYLVANIA MP70/C/U/MED 70 WATT ED17 METAL HALIDE RATED
AT 5800 LUMENS.

MOUNTING: RECESSED

DEG	CANDELA	LUMENS
0	3063	
5	2982	279
15	2406	671
25	1575	720
35	825	519
45	388	304
55	190	172
65	109	108
75	63	66
85	11	13
90	0	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	1669	28.8	58.5
0- 40	2189	37.7	76.8
0- 60	2665	45.9	93.4
0- 90	2852	49.2	100.0
90-180	0	0.0	0.0
0-180	2852	49.2	100.0

TOTAL LUMINAIRE EFFICIENCY: 49.2%

CIE TYPE: DIRECT

LUMINAIRE SPACING CRITERION = 0.8

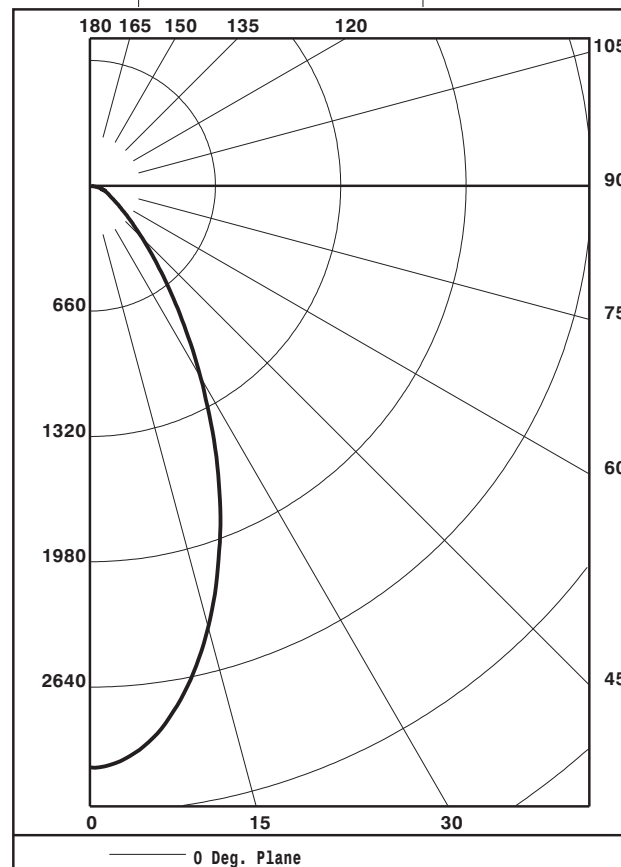
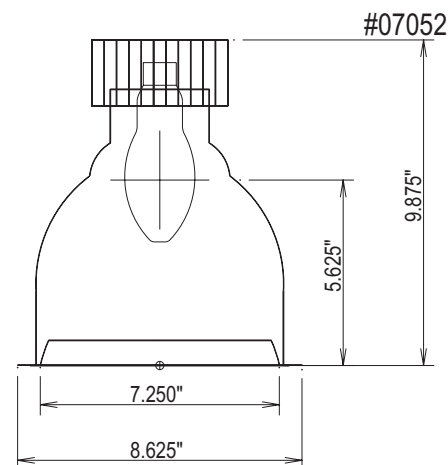
LUMINOUS DIAMETER: 7.250

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE AVERAGE

IN DEG

0	114995.
45	20601.
55	12436.
65	9683.
75	9139.
85	4738.



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	59	59	59	59	57	57	57	57	55	55	55	52	52	52	50	50	50	49
1	56	54	53	52	54	53	52	51	51	50	49	49	48	48	47	47	46	45
2	53	50	48	46	52	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	47	43	40	38	42	40	38	41	39	38	40	38	37	36
5	45	41	38	36	44	40	38	35	39	37	35	39	36	35	38	36	35	34
6	43	38	35	33	42	38	35	33	37	35	33	36	34	33	36	34	32	32
7	40	36	33	31	40	35	33	31	35	32	30	34	32	30	34	32	30	29
8	38	34	31	29	38	33	31	29	33	30	28	32	30	28	32	30	28	28
9	37	32	29	27	36	31	29	27	31	28	27	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	3063
5	2982
10	2747
15	2406
20	1999
25	1575
30	1163
35	825
40	566
45	388
50	268
55	190
60	141
65	109
70	85
75	63
80	35
85	11
90	0

ZONAL LUMEN SUMMARY

0- 5	73.
5- 10	206.
10- 15	307.
15- 20	364.
20- 25	375.
25- 30	344.
30- 35	291.
35- 40	229.
40- 45	174.
45- 50	130.
50- 55	98.
55- 60	74.
60- 65	60.
65- 70	49.
70- 75	39.
75- 80	27.
80- 85	10.
85- 90	2.

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 5800.

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	28	32	39	41	28	32	39	41
20	30	23	24	29	33	23	24	29	33
20	40	22	22	25	27	22	22	25	27
20	60	22	22	22	23	22	22	22	23
30	20	29	32	39	42	29	32	39	42
30	30	23	25	29	33	23	25	29	33
30	40	22	22	24	26	22	22	24	26
30	60	22	22	21	22	22	22	21	22
30	80	23	23	21	21	23	23	21	21
40	20	30	34	40	43	30	34	40	43
40	30	25	26	29	33	25	26	29	33
40	40	24	23	24	27	24	23	24	27
40	60	24	23	21	22	24	23	21	22
40	80	24	23	21	21	24	23	21	21
40	100	26	24	22	22	26	24	22	22
60	30	27	28	30	34	27	28	30	34
60	40	26	24	24	27	26	24	24	27
60	60	25	24	21	22	25	24	21	22
60	80	26	24	21	21	26	24	21	21
60	100	27	25	22	21	27	25	22	21
100	40	30	29	27	30	30	29	27	30
100	60	29	28	24	24	29	28	24	24
100	80	30	28	23	23	30	28	23	23
100	100	30	28	24	23	30	28	24	23

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 #07052

CIRCLE-OF-LIGHT

Ft below	FC nadir	Dia @ 50%
6.0	85.1	4.7
8.0	47.9	6.2
10.0	30.6	7.8
12.0	21.3	9.3
14.0	15.6	10.9
16.0	12.0	12.5

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