



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 06867

DATE: 08-01-2002

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: PA8MHO100A08000SCL

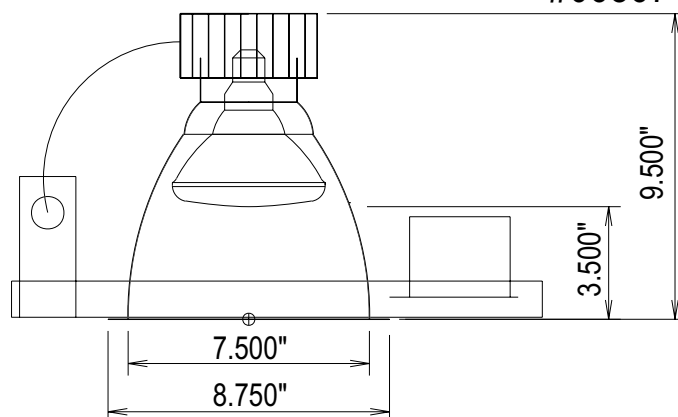
LUMINAIRE: FORMED STEEL HOUSING, SPUN SPECULAR ALUMINUM REFLECTOR,
NO ENCLOSURE.

LAMP: ONE SYLVANIA MP100PAR38/U/FL35 100 WATT PAR38 METAL HALIDE RATED
AT 5,800 LUMENS.

MOUNTING: RECESSED

#06867

DEG	CANDELA	LUMENS
0	9460	
5	9501	904
15	8811	2409
25	3811	1767
35	715	476
45	125	93
55	0	0
65	0	0
75	0	0
85	0	0
90	0	0



ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	5080	87.6	89.9
0- 40	5556	95.8	98.3
0- 60	5649	97.4	100.0
0- 90	5649	97.4	100.0
90-180	0	0.0	0.0
0-180	5649	97.4	100.0

TOTAL LUMINAIRE EFFICIENCY: 97.4%

CIE TYPE: DIRECT

LUMINAIRE SPACING CRITERION = 0.7

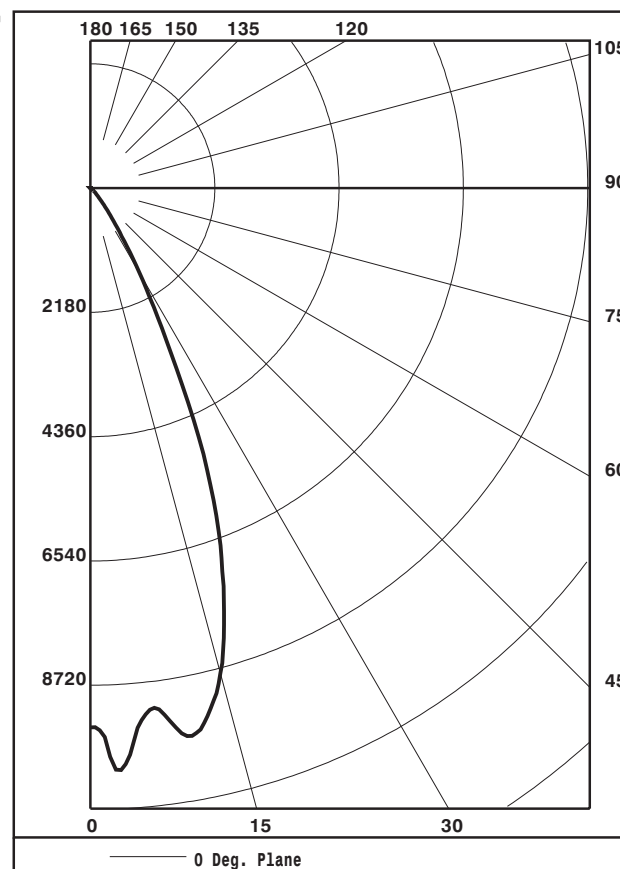
LUMINOUS DIAMETER: 7.500

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE AVERAGE

IN DEG

0	331878.
45	6202.
55	0.
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	116	116	116	116	113	113	113	113	108	108	108	104	104	104	99	99	99	97
1	112	110	108	107	110	108	107	105	104	103	102	101	100	99	97	97	96	94
2	109	105	103	100	107	104	101	99	101	99	97	98	96	95	95	94	93	92
3	106	101	98	96	104	100	97	95	98	95	93	96	94	92	94	92	91	89
4	103	98	94	91	101	97	93	91	95	92	90	93	91	89	91	89	88	87
5	99	94	90	87	98	93	90	87	92	89	86	90	88	86	89	87	85	84
6	97	91	87	84	96	90	87	84	89	86	84	88	85	83	87	85	83	82
7	94	88	84	81	93	87	84	81	86	83	81	85	82	80	84	82	80	79
8	91	85	81	78	90	84	81	78	84	80	78	83	80	78	82	79	77	76
9	88	82	78	75	87	82	78	75	81	77	75	80	77	75	79	77	75	74
10	86	79	75	73	85	79	75	73	78	75	73	78	75	72	77	74	72	71

CANDELA DISTRIBUTION

	0.0
0	9460
5	9501
10	9760
15	8811
20	6672
25	3811
30	1719
35	715
40	284
45	125
50	55
55	0
60	0
65	0
70	0
75	0
80	0
85	0
90	0

ZONAL LUMEN SUMMARY

0- 5	244.
5- 10	660.
10- 15	1125.
15- 20	1284.
20- 25	1123.
25- 30	644.
30- 35	325.
35- 40	150.
40- 45	70.
45- 50	24.
50- 55	0.
55- 60	0.
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 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	99	97	98	93	99	97	98	93
20	30	99	97	98	93	99	97	98	93
20	40	99	97	98	93	99	97	98	93
20	60	99	97	98	93	99	97	98	93
30	20	99	97	98	93	99	97	98	93
30	30	99	97	98	93	99	97	98	93
30	40	99	97	98	93	99	97	98	93
30	60	99	97	98	93	99	97	98	93
30	80	99	97	98	93	99	97	98	93
40	20	99	97	98	93	99	97	98	93
40	30	99	97	98	93	99	97	98	93
40	40	99	97	98	93	99	97	98	93
40	60	99	97	98	94	99	97	98	94
40	80	99	97	98	94	99	97	98	94
40	100	99	97	98	94	99	97	98	94
60	30	99	97	98	93	99	97	98	93
60	40	99	97	98	94	99	97	98	94
60	60	99	97	98	94	99	97	98	94
60	80	99	97	98	94	99	97	98	94
60	100	99	97	98	94	99	97	98	94
100	40	99	97	98	94	99	97	98	94
100	60	99	97	98	94	99	97	98	94
100	80	100	97	98	94	100	97	98	94
100	100	100	97	98	94	100	97	98	94

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 #06867

CIRCLE-OF-LIGHT

Ft below	FC nadir	Dia @ 50%
6.0	262.8	4.7
8.0	147.8	6.3
10.0	94.6	7.9
12.0	65.7	9.5
14.0	48.3	11.0
16.0	37.0	12.6

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