



# LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING  
MEMBER

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

LTL NUMBER: 05079

DATE: 3-17-2000

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 7HF213E12007614SCL/WHT

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

LAMPS: TWO OSRAM DULUX D/E 13W/35K RATED AT 900 LUMENS EACH.

BALLAST: ONE ACE CSD-113PBM

MOUNTING: RECESSED

TOTAL INPUT WATTS = 21.9 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

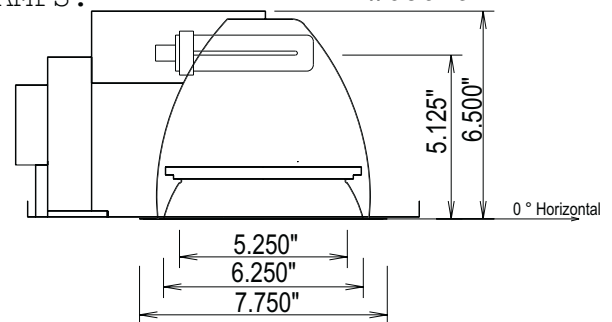
#05079

## CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	487	487	487	487	487
5	484	484	483	485	485
15	447	454	460	466	469
25	362	369	383	390	392
35	208	214	225	233	234
45	107	108	108	113	114
55	50	51	53	57	58
65	26	27	29	28	27
75	9	9	9	9	9
85	0	0	0	0	0
90	0	0	0	0	0

## FLUX

46
130
173
140
85
49
28
10
0



## ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	349	19.4	52.7
0- 40	488	27.1	73.9
0- 60	623	34.6	94.1
0- 90	661	36.7	100.0
90-180	0	0.0	0.0
0-180	661	36.7	100.0

TOTAL LUMINAIRE EFFICIENCY: 36.7%

CIE TYPE: DIRECT

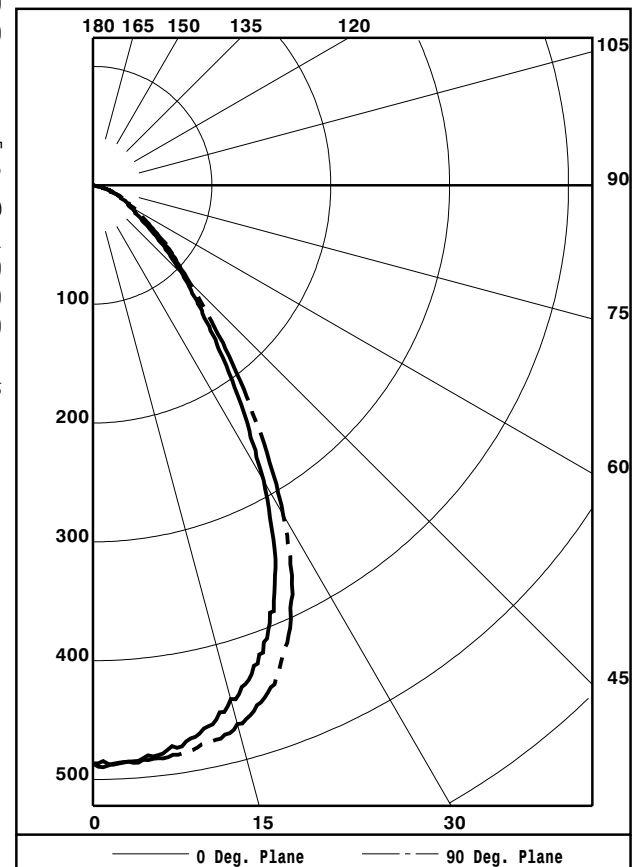
PLANE: 0-DEG 90-DEG

SPACING CRITERIA: 1.0 1.1

LUMINOUS DIAMETER: 6.250

## LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	24602.	24602.	24602.
45	7644.	7716.	8145.
55	4404.	4668.	5108.
65	3108.	3467.	3227.
75	1757.	1757.	1757.
85	0.	0.	0.



TESTED BY HERSCHEL SCHRECK

CHECKED BY MIKE GRATHER

THIS REPORT BASED ON LM-41 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	44	44	44	44	43	43	43	43	41	41	41	39	39	39	37	37	37	37
1	41	40	39	38	40	39	38	38	38	37	36	37	36	35	35	35	34	34
2	39	37	35	34	38	36	35	33	35	34	33	34	33	32	33	32	31	31
3	37	34	32	30	36	33	31	30	32	31	29	31	30	29	31	29	28	28
4	34	31	29	27	34	31	29	27	30	28	26	29	27	26	28	27	26	25
5	32	29	26	24	31	28	26	24	27	25	24	27	25	24	26	25	23	23
6	30	26	24	22	30	26	24	22	26	23	22	25	23	22	24	23	22	21
7	28	24	22	20	28	24	22	20	24	22	20	23	21	20	23	21	20	19
8	27	22	20	18	26	22	20	18	22	20	18	21	19	18	21	19	18	17
9	25	21	18	16	24	20	18	16	20	18	16	20	18	16	19	18	16	16
10	23	19	17	15	23	19	16	15	19	16	15	18	16	15	18	16	15	14

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	0.0	22.5	45.0	67.5	90.0
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25	362	369	383	390	392
30	287	292	307	317	320
35	208	214	225	233	234
40	146	148	156	161	163
45	107	108	108	113	114
50	72	75	74	80	83
55	50	51	53	57	58
60	35	36	40	41	40
65	26	27	29	28	27
70	15	17	17	18	17
75	9	9	9	9	9
80	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	12.
5- 10	34.
10- 15	56.
15- 20	74.
20- 25	86.
25- 30	87.
30- 35	77.
35- 40	62.
40- 45	48.
45- 50	37.
50- 55	28.
55- 60	21.
60- 65	16.
65- 70	12.
70- 75	8.
75- 80	3.
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) THIS TEST WAS PERFORMED USING A SPECIFIC BALLAST/LAMP COMBINATION. EXTRAPOLATION OF THESE DATA FOR OTHER BALLAST/LAMP COMBINATIONS MAY PRODUCE ERRONEOUS RESULTS. 2) 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. 3) THIS TEST WAS CONDUCTED IN A CONTROLLED LABORATORY ENVIRONMENT WHERE THE AMBIENT TEMPERATURE WAS HELD AT 25°C ±1°C. FIELD PERFORMANCE MAY DIFFER PARTICULARLY IN REGARDS TO CHANGE IN LUMINOUS OUTPUT AS A RESULT OF DIFFERENCE IN AMBIENT TEMPERATURE AND METHOD OF MOUNTING THE LUMINAIRE.



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LTL TEST #05079

CIRCLE-OF-LIGHT

Ft below	FC nadir	Dia @ 50%
6.0	13.5	6.2
8.0	7.6	8.3
10.0	4.9	10.3
12.0	3.4	12.4
14.0	2.5	14.5
16.0	1.9	16.5

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