



# 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: 06131

DATE: 09-11-2001

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 7VF1X32E1-7000SCL

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

LAMP: ONE PHILIPS PL-T 32W/30/4P/ALTO RATED AT 2400 LUMENS.

BALLAST: ONE ADVANCE ICF-2S26-H1-LD

MOUNTING: RECESSED

TOTAL INPUT WATTS = 30.8 AT 120.0 VOLTS

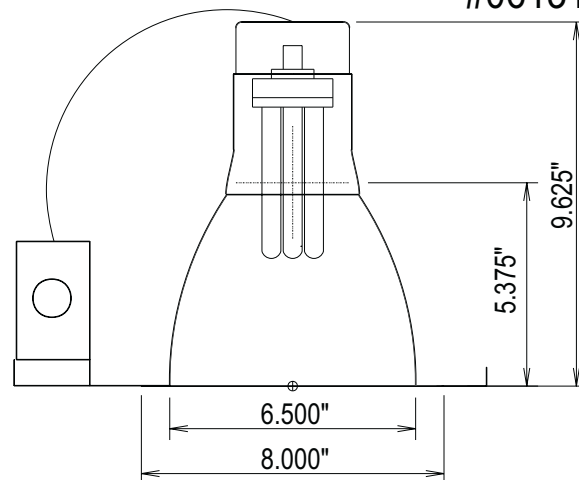
#06131

## CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	875	875	875	875	875
5	1008	984	932	886	870
15	896	905	853	864	875
25	756	780	744	775	782
35	511	518	501	502	505
45	192	185	163	183	185
55	5	5	5	11	12
65	0	0	0	0	0
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

## FLUX

90
246
352
313
138
15
0
0
0



## ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	689	28.7	59.6
0- 40	1002	41.7	86.8
0- 60	1155	48.1	100.0
0- 90	1155	48.1	100.0
90-180	0	0.0	0.0
0-180	1155	48.1	100.0

TOTAL LUMINAIRE EFFICIENCY:

48.1%

CIE TYPE: DIRECT

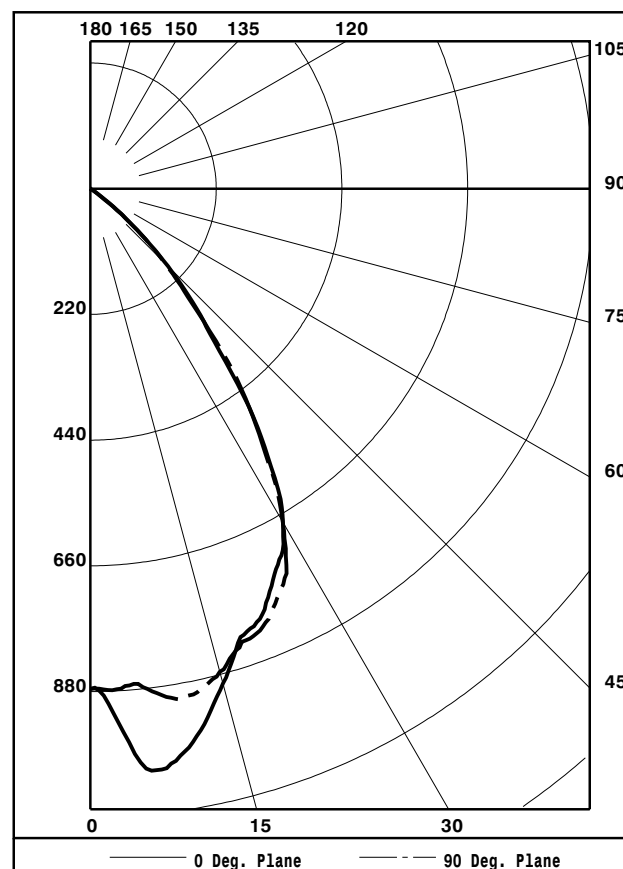
PLANE: 0-DEG 90-DEG

SPACING CRITERIA: 1.2 1.2

LUMINOUS DIAMETER: 6.500

## LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	40869.	40869.	40869.
45	12682.	10767.	12220.
55	407.	407.	977.
65	0.	0.	0.
75	0.	0.	0.
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	57	57	57	57	56	56	56	56	53	53	53	51	51	51	49	49	49	48
1	55	53	52	51	53	52	51	50	50	49	49	49	48	47	47	46	46	45
2	52	50	48	46	51	49	47	45	47	46	44	46	45	44	44	43	43	42
3	49	46	44	42	48	45	43	41	44	42	41	43	41	40	42	41	40	39
4	47	43	40	38	46	42	40	38	41	39	37	40	38	37	39	38	37	36
5	44	40	37	35	43	39	37	35	38	36	34	38	36	34	37	35	34	33
6	42	37	34	32	41	37	34	32	36	34	32	35	33	32	35	33	31	31
7	39	35	32	29	39	34	31	29	34	31	29	33	31	29	32	30	29	28
8	37	32	29	27	36	32	29	27	31	29	27	31	28	27	30	28	26	26
9	34	29	26	24	34	29	26	24	29	26	24	28	26	24	28	26	24	23
10	32	27	24	22	32	27	24	22	27	24	22	26	24	22	26	23	22	21

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	875	875	875	875	875
5	1008	984	932	886	870
10	993	1001	966	897	908
15	896	905	853	864	875
20	819	830	768	817	833
25	756	780	744	775	782
30	674	683	662	671	673
35	511	518	501	502	505
40	315	308	292	317	324
45	192	185	163	183	185
50	77	74	62	77	81
55	5	5	5	11	12
60	0	0	0	0	0
65	0	0	0	0	0
70	0	0	0	0	0
75	0	0	0	0	0
80	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	21.
5- 10	69.
10- 15	109.
15- 20	137.
20- 25	167.
25- 30	185.
30- 35	175.
35- 40	138.
40- 45	89.
45- 50	50.
50- 55	15.
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) 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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VISUAL COMFORT PROBABILITY TABLE

RATED LUMENS PER LAMP 2400.

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	92	85	81	64	92	84	86	64
20	30	92	85	82	64	92	84	86	64
20	40	92	85	82	65	92	84	82	64
20	60	92	86	82	65	92	85	82	65
30	20	92	85	82	68	92	84	86	68
30	30	92	86	82	68	92	85	82	68
30	40	93	86	82	68	92	85	82	68
30	60	93	86	82	69	92	85	83	68
30	80	93	86	82	69	92	85	83	68
40	20	92	85	82	68	92	84	82	68
40	30	93	86	82	68	92	85	82	68
40	40	93	86	82	68	92	85	83	68
40	60	93	86	83	69	92	85	83	69
40	80	93	86	83	69	92	85	83	69
40	100	93	86	83	69	92	85	83	69
60	30	93	86	82	68	92	85	82	68
60	40	93	86	83	69	92	85	83	69
60	60	93	86	83	69	92	85	83	69
60	80	93	86	83	69	92	85	83	69
60	100	93	86	83	69	92	85	83	69
100	40	93	86	83	69	92	85	83	69
100	60	93	86	83	69	92	85	83	69
100	80	93	86	83	69	92	85	83	69
100	100	93	86	83	69	92	85	83	69



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LTL TEST #06131

CIRCLE-OF-LIGHT

Ft below	FC nadir	Dia @ 50%
6.0	24.3	6.9
8.0	13.7	9.2
10.0	8.8	11.5
12.0	6.1	13.8
14.0	4.5	16.2
16.0	3.4	18.5

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