



# 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: 05850

DATE: 06-11-2001

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 6HF213-06614SCL

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

LAMPS: TWO PHILIPS PL-C 13W/27/4P RATED AT 900 LUMENS EACH.

BALLAST: ONE ADVANCE ICF-2S13-H1-LD

MOUNTING: RECESSED

TOTAL INPUT WATTS = 26.9 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

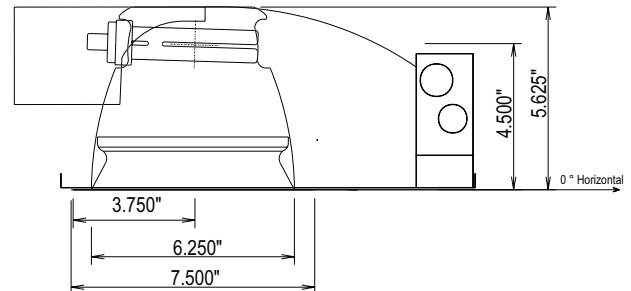
#05850

## CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	418	418	418	418	418
5	419	417	419	420	420
15	396	399	412	430	435
25	343	349	372	392	400
35	233	238	255	272	281
45	123	130	143	148	147
55	62	64	66	69	70
65	29	29	29	34	36
75	6	7	10	13	11
85	0	0	0	0	0
90	0	0	0	0	0

## FLUX

40
117
170
162
109
60
31
11
0



## ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	326	18.1	46.7
0- 40	488	27.1	69.9
0- 60	657	36.5	94.0
0- 90	698	38.8	100.0
90-180	0	0.0	0.0
0-180	698	38.8	100.0

TOTAL LUMINAIRE EFFICIENCY: 38.8%

CIE TYPE: DIRECT

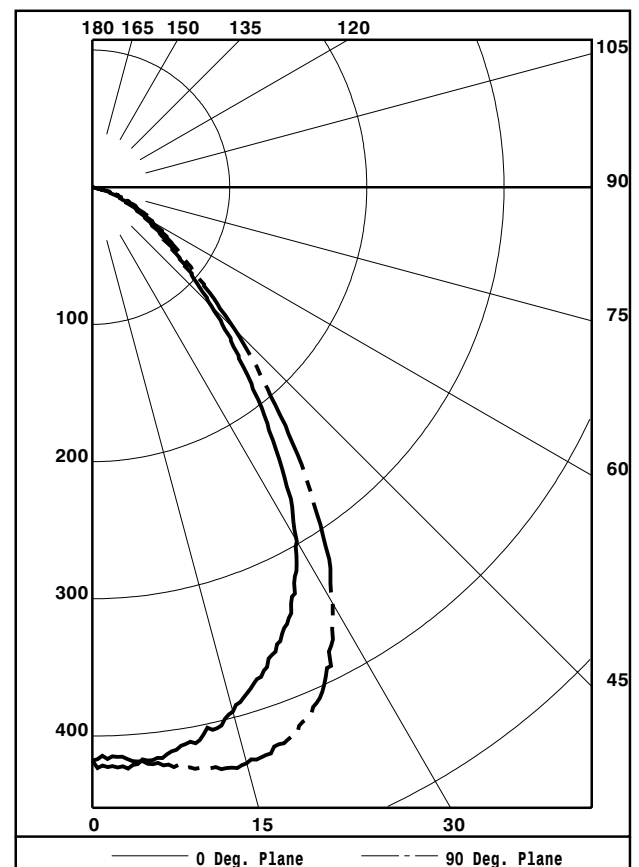
PLANE: 0-DEG 90-DEG

SPACING CRITERIA: 1.1 1.2

LUMINOUS DIAMETER: 6.250

## LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	21117.	21117.	21117.
45	8788.	10216.	10502.
55	5461.	5813.	6165.
65	3467.	3467.	4303.
75	1171.	1952.	2147.
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	50	30	10	0
0	46	46	46	46	45	45	45	45	43	43	43	41	41	41	40	40	40	40	40	40	39
1	44	42	41	40	43	42	41	40	40	39	38	39	38	37	37	37	36	37	37	36	35
2	41	39	37	35	40	38	36	35	37	35	34	36	34	33	34	34	33	34	34	33	32
3	38	35	33	31	38	35	33	31	34	32	31	33	31	30	32	31	30	32	31	30	29
4	36	32	30	28	35	32	30	28	31	29	27	30	28	27	29	28	27	29	28	27	26
5	33	30	27	25	33	29	27	25	28	26	24	28	26	24	27	25	24	27	25	24	23
6	31	27	24	22	31	27	24	22	26	24	22	26	24	22	25	23	22	25	23	22	21
7	29	25	22	20	29	25	22	20	24	22	20	24	21	20	23	21	20	23	21	20	19
8	27	23	20	18	27	23	20	18	22	20	18	22	19	18	21	19	18	21	19	18	17
9	25	21	18	16	25	21	18	16	20	18	16	20	17	16	19	17	16	19	17	16	15
10	24	19	16	14	23	19	16	14	18	16	14	18	16	14	18	16	14	18	16	14	14

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	418	418	418	418	418
5	419	417	419	420	420
10	410	410	419	428	430
15	396	399	412	430	435
20	372	377	400	419	426
25	343	349	372	392	400
30	298	305	326	344	350
35	233	238	255	272	281
40	172	180	196	206	207
45	123	130	143	148	147
50	89	91	98	102	99
55	62	64	66	69	70
60	44	42	44	47	51
65	29	29	29	34	36
70	21	20	20	22	27
75	6	7	10	13	11
80	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

ZONAL LUMEN SUMMARY

	0- 5	10.
5- 10	30.	
10- 15	50.	
15- 20	67.	
20- 25	81.	
25- 30	88.	
30- 35	87.	
35- 40	75.	
40- 45	62.	
45- 50	47.	
50- 55	35.	
55- 60	25.	
60- 65	19.	
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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VISUAL COMFORT PROBABILITY TABLE

RATED LUMENS PER LAMP 900.

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	60	58	62	64	54	54	59	60
20	30	62	57	56	56	56	50	51	52
20	40	62	60	56	52	56	53	48	47
20	60	62	60	59	53	57	53	52	47
30	20	62	59	62	63	58	57	59	60
30	30	62	58	55	55	59	52	51	52
30	40	63	60	55	50	59	54	48	46
30	60	63	60	58	52	59	54	51	46
30	80	63	60	58	52	59	54	51	46
40	20	65	62	63	64	62	60	62	62
40	30	65	61	56	56	62	56	53	53
40	40	66	62	56	51	62	57	50	47
40	60	66	62	58	52	63	57	52	46
40	80	66	62	58	52	63	57	52	46
40	100	66	62	58	52	63	58	52	47
60	30	65	63	57	57	62	59	55	55
60	40	66	64	57	52	63	60	52	49
60	60	66	64	58	52	63	60	54	48
60	80	66	64	58	52	63	60	54	48
60	100	66	64	59	52	63	60	54	48
100	40	66	64	60	56	63	60	56	54
100	60	66	64	61	57	63	60	57	53
100	80	66	64	61	57	63	60	57	53
100	100	66	64	61	57	63	60	57	53



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LTL TEST #05850

CIRCLE-OF-LIGHT

Ft below	FC nadir	Dia @ 50%
6.0	11.6	7.0
8.0	6.5	9.3
10.0	4.2	11.6
12.0	2.9	13.9
14.0	2.1	16.3
16.0	1.6	18.6

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