



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 06650

DATE: 04-30-2002

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 5INC-05000SCL

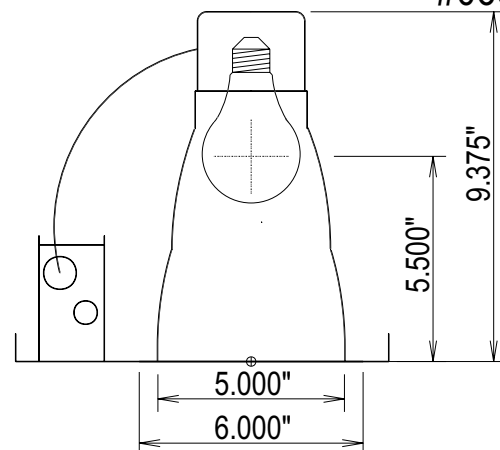
LUMINAIRE: FORMED STEEL HOUSING, SPUN SPECULAR ALUMINUM REFLECTOR,
NO ENCLOSURE.

LAMP: ONE GE 100A STANDARD 100 WATT A19 INCANDESCENT RATED AT 1710
LUMENS.

MOUNTING: RECESSED

#06650

DEG	CANDELA	LUMENS
0	656	
5	465	43
15	336	96
25	343	158
35	302	193
45	334	246
55	129	120
65	17	17
75	0	0
85	0	0
90	0	



ZONAL ZONE	LUMEN LUMENS	SUMMARY	%LAMP	%FIXT
0- 30	297		17.4	34.0
0- 40	490		28.6	56.1
0- 60	856		50.0	98.0
0- 90	873		51.0	100.0
90-180	0		0.0	0.0
0-180	873		51.0	100.0

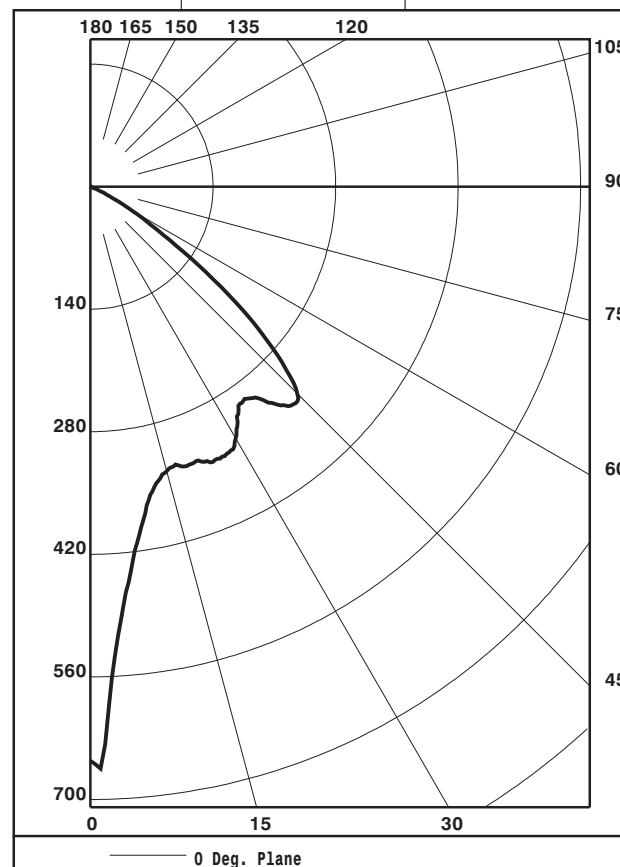
TOTAL LUMINAIRE EFFICIENCY: 51.0%
CIE TYPE: DIRECT
LUMINAIRE SPACING CRITERION = 0.4
LUMINOUS DIAMETER: 5.000

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE AVERAGE

IN DEG

0	51781.
45	37285.
55	17753.
65	3175.
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	61	61	61	61	59	59	59	59	57	57	57	54	54	54	52	52	52	51
1	57	56	54	53	56	54	53	52	52	51	50	50	50	49	49	48	47	46
2	54	51	48	46	53	50	48	46	48	46	45	47	45	44	45	44	43	42
3	50	46	43	41	49	46	43	40	44	42	40	43	41	39	42	40	39	38
4	47	42	39	36	46	42	38	36	40	38	35	39	37	35	38	36	35	34
5	44	38	35	32	43	38	34	32	37	34	31	36	33	31	35	33	31	30
6	40	35	31	28	39	34	31	28	33	30	28	33	30	28	32	29	27	26
7	37	31	27	24	36	31	27	24	30	27	24	29	26	24	29	26	24	23
8	34	28	24	21	34	28	24	21	27	24	21	26	23	21	26	23	21	20
9	32	25	21	19	31	25	21	19	24	21	19	24	21	19	23	21	18	18
10	29	23	19	16	29	23	19	16	22	19	16	22	18	16	21	18	16	15

CANDELA DISTRIBUTION

	0.0
0	656
5	465
10	370
15	336
20	337
25	343
30	332
35	302
40	322
45	334
50	246
55	129
60	56
65	17
70	0
75	0
80	0
85	0
90	0

ZONAL LUMEN SUMMARY

0- 5	13.
5- 10	29.
10- 15	41.
15- 20	55.
20- 25	71.
25- 30	87.
30- 35	92.
35- 40	101.
40- 45	126.
45- 50	120.
50- 55	82.
55- 60	38.
60- 65	15.
65- 70	2.
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 1710.

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	46	39	26	21	46	39	26	21
20	30	46	39	33	23	46	39	33	23
20	40	46	39	33	29	46	39	33	29
20	60	46	39	34	29	46	39	34	29
30	20	46	45	31	24	46	45	31	24
30	30	46	45	36	26	46	45	36	26
30	40	46	45	36	30	46	45	36	30
30	60	46	45	36	30	46	45	36	30
30	80	46	45	36	30	46	45	36	30
40	20	46	45	34	27	46	45	34	27
40	30	46	45	39	29	46	45	39	29
40	40	46	45	39	32	46	45	39	32
40	60	46	45	39	32	46	45	39	32
40	80	46	45	39	32	46	45	39	32
40	100	46	45	39	33	46	45	39	33
60	30	46	45	39	32	46	45	39	32
60	40	46	45	39	35	46	45	39	35
60	60	46	45	39	35	46	45	39	35
60	80	46	45	39	35	46	45	39	35
60	100	46	45	39	35	46	45	39	35
100	40	46	45	39	35	46	45	39	35
100	60	46	45	39	35	46	45	39	35
100	80	46	45	39	35	46	45	39	35
100	100	46	45	39	35	46	45	39	35

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 #06650

CIRCLE-OF-LIGHT

Ft below	FC nadir	Dia @ 50%
6.0	18.2	2.6
8.0	10.3	3.4
10.0	6.6	4.3
12.0	4.6	5.1
14.0	3.3	6.0
16.0	2.6	6.8

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