



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 06077

DATE: 08-07-2001

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 8HF2X18E1-08616SCL/SCL

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

LAMPS: TWO SYLVANIA CF18DD/E/835 RATED AT 1250 LUMENS EACH.

BALLAST: ONE ADVANCE ICF-2S18-H1-LD

MOUNTING: RECESSED

TOTAL INPUT WATTS = 35.5 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

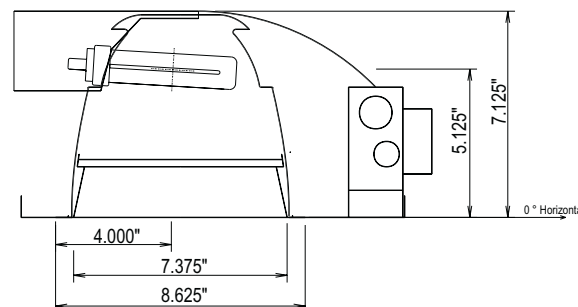
#06077

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	964	964	964	964	964
5	958	975	1041	1080	1104
15	830	912	965	951	952
25	525	590	683	706	710
35	227	285	333	308	297
45	135	167	257	278	282
55	114	120	142	157	161
65	40	44	49	55	57
75	8	7	7	9	9
85	0	0	0	0	0
90	0	0	0	0	0

FLUX

100
261
294
196
174
124
51
9
0



ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	654	26.2	54.1
0- 40	851	34.0	70.4
0- 60	1149	46.0	95.0
0- 90	1209	48.4	100.0
90-180	0	0.0	0.0
0-180	1209	48.4	100.0

TOTAL LUMINAIRE EFFICIENCY: 48.4%

CIE TYPE: DIRECT

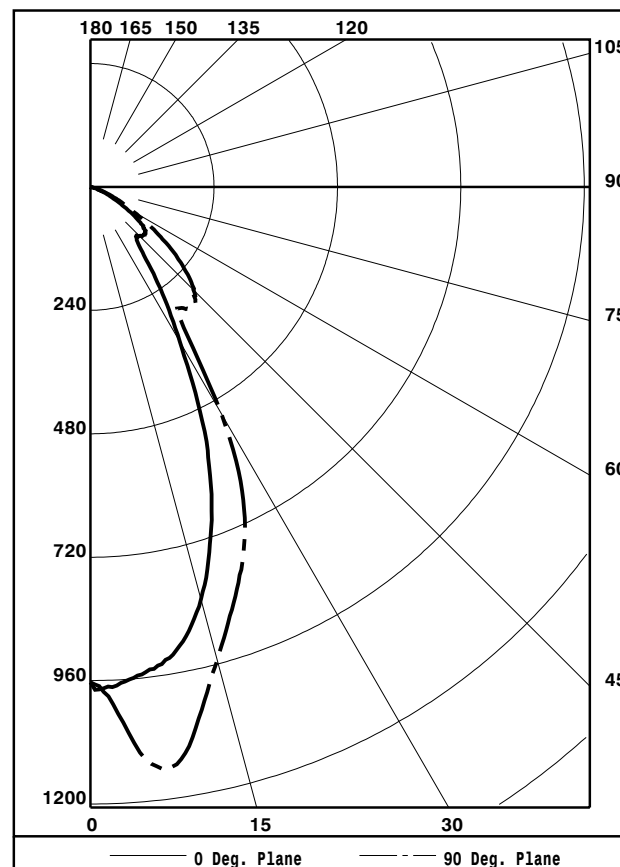
PLANE: 0-DEG 90-DEG

SPACING CRITERIA: 0.8 1.0

LUMINOUS DIAMETER: 7.375

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	34975.	34975.	34975.
45	6927.	13187.	14469.
55	7211.	8982.	10184.
65	3434.	4207.	4893.
75	1121.	981.	1262.
85	0.	0.	0.



TESTED BY HERSCHEL SCHRECK
CHECKED BY MIKE GRATHER

THIS REPORT BASED ON LM-41 AND OTHER PERTINENT IES PROCEDURES.



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 06077

DATE: 08-07-2001

PREPARED FOR: VANTAGE LUMINAIRES

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	58	58	58	58	56	56	56	56	54	54	54	51	51	51	49	49	49	48
1	55	53	52	50	53	52	51	50	50	49	48	48	47	47	47	46	45	44
2	51	49	46	45	50	48	46	44	46	45	43	45	43	42	43	42	41	40
3	48	45	42	40	47	44	42	40	43	41	39	42	40	38	40	39	38	37
4	45	41	38	36	44	41	38	35	39	37	35	38	36	35	37	36	34	33
5	42	38	34	32	42	37	34	32	36	34	32	35	33	31	35	33	31	30
6	40	35	32	29	39	34	31	29	34	31	29	33	30	29	32	30	28	28
7	37	32	29	27	37	32	29	26	31	28	26	31	28	26	30	28	26	25
8	35	30	26	24	34	29	26	24	29	26	24	28	26	24	28	25	24	23
9	33	27	24	22	32	27	24	22	27	24	22	26	23	22	26	23	21	21
10	31	25	22	20	30	25	22	20	25	22	20	24	22	20	24	21	20	19

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	964	964	964	964	964
5	958	975	1041	1080	1104
10	923	1006	1094	1101	1104
15	830	912	965	951	952
20	689	759	831	830	832
25	525	590	683	706	710
30	347	413	508	517	509
35	227	285	333	308	297
40	144	190	281	302	306
45	135	167	257	278	282
50	139	153	204	225	229
55	114	120	142	157	161
60	72	78	87	98	98
65	40	44	49	55	57
70	18	22	24	26	28
75	8	7	7	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	24.
5- 10	76.
10- 15	119.
15- 20	142.
20- 25	152.
25- 30	142.
30- 35	108.
35- 40	88.
40- 45	89.
45- 50	86.
50- 55	73.
55- 60	51.
60- 65	32.
65- 70	19.
70- 75	8.
75- 80	1.
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.



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 06077

DATE: 08-07-2001

PREPARED FOR: VANTAGE LUMINAIRES

VISUAL COMFORT PROBABILITY TABLE

RATED LUMENS PER LAMP 1250.

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	59	54	55	63	53	46	45	48
20	30	62	56	51	54	56	48	42	41
20	40	62	56	54	52	56	51	44	40
20	60	62	56	54	55	56	51	49	43
30	20	64	57	55	59	58	51	47	49
30	30	66	58	51	51	60	52	44	42
30	40	66	58	53	49	61	54	46	40
30	60	66	59	53	52	61	54	49	43
30	80	66	59	53	52	61	54	49	43
40	20	67	61	57	59	61	56	51	51
40	30	69	61	53	51	62	56	47	44
40	40	69	61	55	49	62	57	49	42
40	60	69	62	56	52	63	58	52	45
40	80	69	62	56	52	63	58	51	45
40	100	69	62	56	52	63	58	51	45
60	30	69	62	56	53	62	56	51	46
60	40	69	62	58	51	62	58	53	45
60	60	69	62	59	53	63	58	54	48
60	80	69	62	59	54	63	58	54	48
60	100	69	62	59	54	63	58	54	48
100	40	69	62	59	56	63	58	54	50
100	60	69	62	60	58	63	58	55	52
100	80	69	62	60	58	63	58	55	52
100	100	69	62	60	58	63	58	55	52



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL TEST #06077

CIRCLE-OF-LIGHT

Ft below	FC nadir	Dia @ 50%
6.0	26.8	5.6
8.0	15.1	7.4
10.0	9.6	9.3
12.0	6.7	11.1
14.0	4.9	13.0
16.0	3.8	14.9

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