



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 06082

DATE: 08-15-2001

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 8HF2X42E1-08614SCL/SCL/A

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

LAMPS: TWO SYLVANIA CF42DT/E/IN/841 RATED AT 3200 LUMENS EACH.

BALLAST: ONE ADVANCE ICF-2S42-M2-LD

MOUNTING: RECESSED

TOTAL INPUT WATTS = 97.4 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

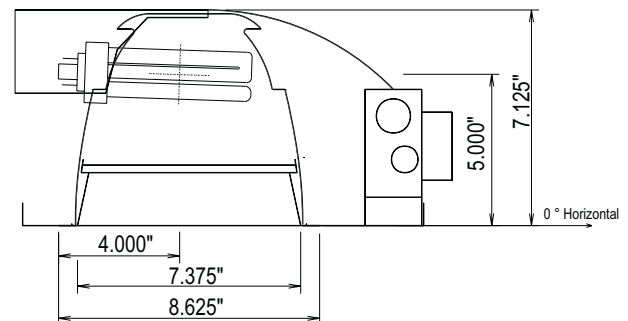
#06082

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	1611	1611	1611	1611	1611
5	1594	1601	1601	1602	1601
15	1462	1474	1484	1488	1490
25	1205	1234	1283	1326	1345
35	923	955	1021	1093	1131
45	540	564	605	657	672
55	303	299	312	344	342
65	107	110	115	117	126
75	17	18	19	20	21
85	0	0	0	0	0
90	0	0	0	0	0

FLUX

152
417
589
635
475
286
118
23
1



ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	1157	18.1	42.9
0- 40	1792	28.0	66.5
0- 60	2554	39.9	94.7
0- 90	2695	42.1	100.0
90-180	0	0.0	0.0
0-180	2695	42.1	100.0

TOTAL LUMINAIRE EFFICIENCY: 42.1%

CIE TYPE: DIRECT

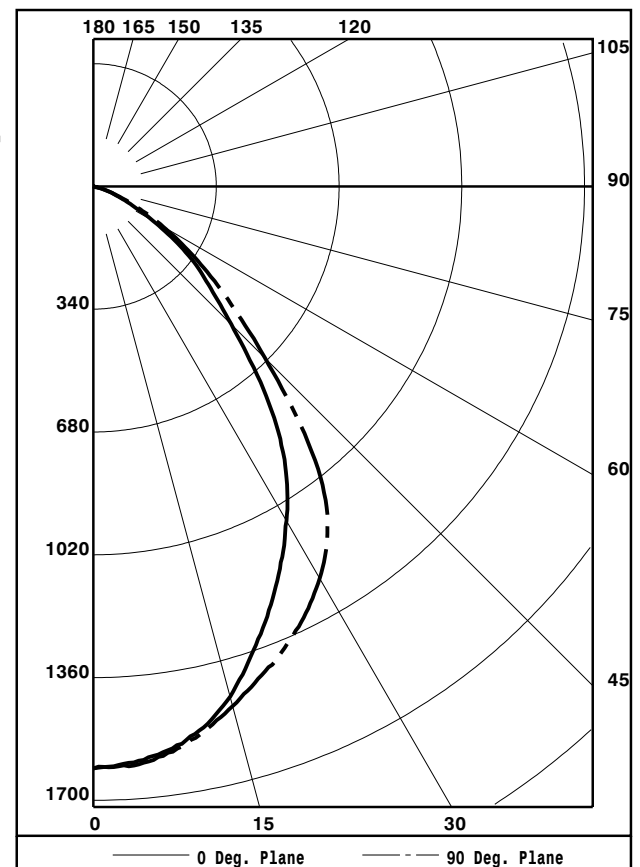
PLANE: 0-DEG 90-DEG

SPACING CRITERIA: 1.0 1.2

LUMINOUS DIAMETER: 7.375

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	58450.	58450.	58450.
45	27707.	31042.	34480.
55	19166.	19736.	21633.
65	9186.	9873.	10817.
75	2383.	2663.	2944.
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	50	50	50	50	49	49	49	49	47	47	47	45	45	45	43	43	43	42
1	47	46	45	44	46	45	44	43	43	42	42	42	41	40	40	40	39	38
2	44	42	40	38	43	41	39	38	40	38	37	38	37	36	37	36	35	35
3	41	38	36	34	41	38	35	33	36	34	33	35	34	32	34	33	32	31
4	39	35	32	30	38	34	32	30	33	31	29	32	30	29	32	30	29	28
5	36	32	29	26	35	31	28	26	30	28	26	30	27	26	29	27	25	25
6	34	29	26	24	33	29	26	24	28	25	23	27	25	23	27	25	23	22
7	31	26	23	21	31	26	23	21	26	23	21	25	23	21	24	22	21	20
8	29	24	21	19	28	24	21	19	23	21	19	23	20	19	22	20	18	18
9	27	22	19	17	26	22	19	17	21	18	16	21	18	16	20	18	16	16
10	25	20	17	15	25	20	17	15	19	17	15	19	16	15	19	16	15	14

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	1611	1611	1611	1611	1611
5	1594	1601	1601	1602	1601
10	1546	1555	1558	1557	1556
15	1462	1474	1484	1488	1490
20	1334	1356	1385	1407	1417
25	1205	1234	1283	1326	1345
30	1069	1099	1160	1219	1253
35	923	955	1021	1093	1131
40	733	763	829	896	923
45	540	564	605	657	672
50	407	421	441	487	485
55	303	299	312	344	342
60	192	194	201	212	224
65	107	110	115	117	126
70	56	58	58	61	66
75	17	18	19	20	21
80	1	2	2	3	3
85	0	0	0	0	0
90	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	38.
5- 10	113.
10- 15	181.
15- 20	236.
20- 25	280.
25- 30	309.
30- 35	323.
35- 40	312.
40- 45	265.
45- 50	211.
50- 55	167.
55- 60	119.
60- 65	75.
65- 70	43.
70- 75	20.
75- 80	3.
80- 85	1.
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 3200.

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	33	27	27	29	31	25	23	24
20	30	38	29	24	24	35	26	22	20
20	40	43	33	27	23	40	30	24	20
20	60	43	37	31	26	43	34	28	23
30	20	38	31	28	29	36	29	25	26
30	30	43	33	25	24	41	30	23	21
30	40	48	37	28	23	45	34	26	21
30	60	48	41	32	26	48	38	29	23
30	80	48	41	36	30	48	38	33	27
40	20	44	35	31	30	42	33	29	28
40	30	49	37	28	25	47	35	26	23
40	40	53	42	31	24	51	39	29	22
40	60	53	46	35	27	52	43	32	25
40	80	53	46	39	31	53	43	36	28
40	100	53	46	39	34	53	43	39	31
60	30	53	42	31	27	48	40	30	25
60	40	56	46	34	26	52	44	32	25
60	60	56	50	38	29	53	47	36	27
60	80	56	50	42	33	53	47	39	30
60	100	56	50	42	36	53	47	42	33
100	40	56	46	40	32	52	44	36	31
100	60	56	50	43	35	53	47	41	33
100	80	56	50	47	39	53	47	44	36
100	100	56	50	47	42	53	47	47	39



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CIRCLE-OF-LIGHT

Ft below	FC nadir	Dia @ 50%
6.0	44.8	6.6
8.0	25.2	8.8
10.0	16.1	10.9
12.0	11.2	13.1
14.0	8.2	15.3
16.0	6.3	17.5

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