



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 06079

DATE: 08-14-2001

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 8HF2X32E1-08614SCL/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 CF32DT/E/IN/830 RATED AT 2400 LUMENS EACH.

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

MOUNTING: RECESSED

TOTAL INPUT WATTS = 67.4 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	FLUX
0	1422	1422	1422	1422	1422	1422	1422	1422	1422	
5	1433	1430	1426	1418	1410	1400	1390	1381	1381	133
15	1333	1340	1346	1332	1303	1272	1233	1197	1179	362
25	1114	1133	1176	1202	1180	1113	1021	942	912	505
35	811	836	904	968	980	895	770	675	639	521
45	427	438	472	520	539	503	431	381	361	360
55	225	220	239	270	263	270	240	224	220	218
65	77	78	84	86	97	92	92	94	89	90
75	14	12	15	15	15	14	16	15	14	17
85	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	1000	20.8	45.4
0- 40	1521	31.7	69.0
0- 60	2098	43.7	95.1
0- 90	2205	45.9	100.0
90-180	0	0.0	0.0
0-180	2205	45.9	100.0

TOTAL LUMINAIRE EFFICIENCY: 45.9%

CIE TYPE: DIRECT

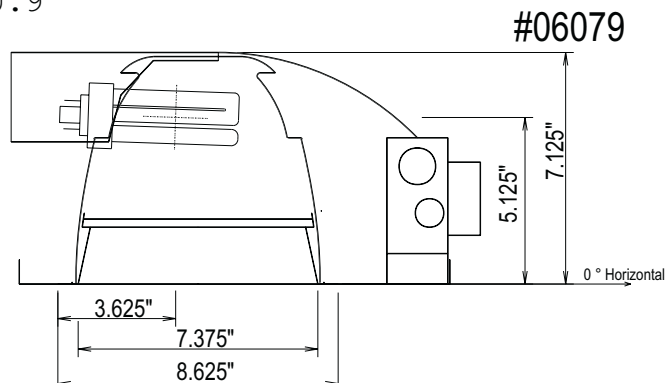
PLANE: 0-DEG 90-DEG 180-DEG

SPACING CRITERIA: 1.1 1.2 0.9

LUMINOUS DIAMETER: 7.375

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	51592.	51592.	51592.
45	21909.	24218.	27656.
55	14232.	15118.	16636.
65	6610.	7211.	8327.
75	1963.	2103.	2103.
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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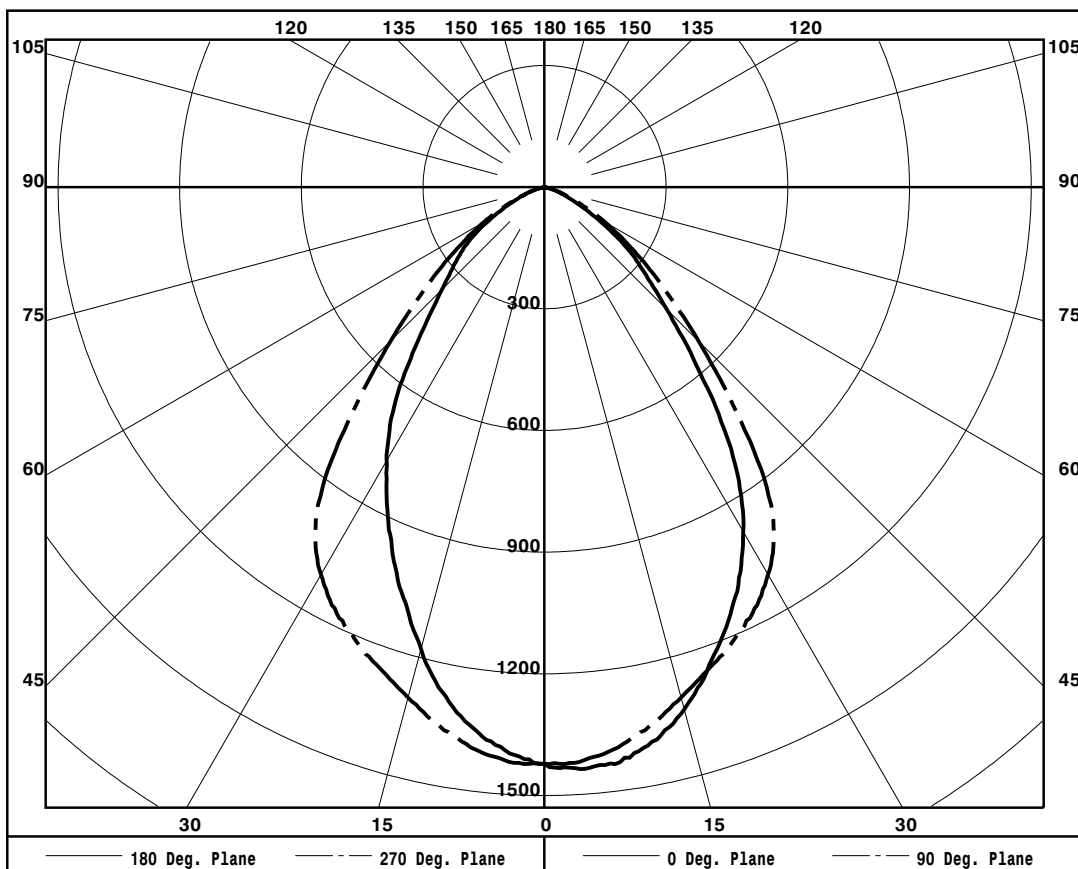
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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0
0	1422	1422	1422	1422	1422	1422	1422	1422	1422
5	1433	1430	1426	1418	1410	1400	1390	1381	1381
10	1404	1404	1399	1384	1365	1344	1327	1311	1302
15	1333	1340	1346	1332	1303	1272	1233	1197	1179
20	1225	1241	1269	1269	1243	1193	1130	1071	1048
25	1114	1133	1176	1202	1180	1113	1021	942	912
30	980	1001	1062	1109	1103	1019	901	813	780
35	811	836	904	968	980	895	770	675	639
40	596	618	673	740	754	698	591	510	476
45	427	438	472	520	539	503	431	381	361
50	314	318	344	382	379	374	324	294	284
55	225	220	239	270	263	270	240	224	220
60	136	136	146	160	172	166	156	155	145
65	77	78	84	86	97	92	92	94	89
70	42	41	45	45	48	47	49	50	51
75	14	12	15	15	15	14	16	15	14
80	3	4	4	5	5	5	5	5	5
85	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	34.
5- 10	99.
10- 15	157.
15- 20	204.
20- 25	241.
25- 30	264.
30- 35	272.
35- 40	249.
40- 45	201.
45- 50	159.
50- 55	127.
55- 60	91.
60- 65	58.
65- 70	32.
70- 75	15.
75- 80	2.
80- 85	0.
85- 90	0.





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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	55	55	55	55	53	53	53	53	51	51	51	49	49	49	47	47	47	46
1	52	50	49	48	51	49	48	47	47	46	45	46	45	44	44	43	43	42
2	49	46	44	42	47	45	43	41	44	42	40	42	41	40	41	40	39	38
3	45	42	39	37	44	41	39	37	40	38	36	39	37	36	38	36	35	34
4	42	38	35	33	42	38	35	33	37	34	32	36	34	32	35	33	32	31
5	40	35	32	29	39	34	31	29	34	31	29	33	30	29	32	30	28	28
6	37	32	29	26	36	32	29	26	31	28	26	30	28	26	30	27	26	25
7	35	29	26	24	34	29	26	24	28	26	23	28	25	23	27	25	23	22
8	32	27	23	21	31	26	23	21	26	23	21	25	23	21	25	23	21	20
9	30	24	21	19	29	24	21	19	24	21	19	23	20	19	23	20	18	18
10	28	22	19	17	27	22	19	17	22	19	17	21	19	17	21	18	17	16

NOTE: THE ZONAL CAVITY CALCULATION TECHNIQUE IS ACCURATE WHEN LUMINAIRES WITH SYMMETRIC CANDELA DISTRIBUTIONS ARE EMPLOYED AND WHEN THE LUMINAIRES ARE LOCATED SYMMETRICALLY THROUGHOUT THE ROOM. THIS UNIT HAS SPECIAL CHARACTERISTICS AND THEREFORE THESE COEFFICIENTS SHOULD BE USED WITH CAUTION.

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. 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	42	36	35	36	39	32	30	30
20	30	48	38	33	31	43	34	28	26
20	40	52	42	36	31	48	37	31	26
20	60	52	42	40	34	48	37	35	29
30	20	48	40	36	36	45	36	32	32
30	30	52	42	34	31	48	38	30	27
30	40	57	45	36	31	53	42	33	27
30	60	57	46	41	34	53	42	36	29
30	80	57	46	43	37	53	42	40	33
40	20	53	44	40	37	51	41	36	34
40	30	57	46	37	33	54	43	34	29
40	40	61	50	39	32	57	46	36	29
40	60	61	50	43	35	57	47	39	31
40	80	61	50	46	38	58	47	43	34
40	100	61	50	45	38	58	47	43	38
60	30	61	51	40	35	56	47	37	32
60	40	63	54	43	34	59	50	39	31
60	60	63	54	46	37	59	50	43	34
60	80	63	54	48	40	59	50	46	37
60	100	63	54	48	41	59	50	46	40
100	40	63	55	49	40	59	50	43	38
100	60	63	55	52	43	59	50	46	40
100	80	63	55	53	46	59	50	49	43
100	100	63	55	53	47	59	50	49	45



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LTL TEST #06079

CIRCLE-OF-LIGHT

Ft below	FC nadir	Dia @ 50%
6.0	39.5	6.3
8.0	22.2	8.4
10.0	14.2	10.5
12.0	9.9	12.6
14.0	7.3	14.8
16.0	5.6	16.9

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