



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 05837

DATE: 06-11-2001

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 8HF226E-08616SCL

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

LAMPS: TWO PHILIPS PL-C 26W/35/4P RATED AT 1800 LUMENS EACH.

BALLAST: ONE ADVANCE ICF-2S26-H1-LD

MOUNTING: RECESSED

TOTAL INPUT WATTS = 45.9 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

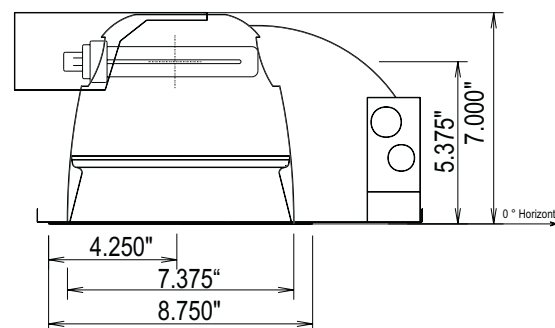
#05837

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	1185	1185	1185	1185	1185
5	1175	1189	1238	1284	1275
15	986	1092	1146	1137	1107
25	674	793	867	881	865
35	309	422	536	593	595
45	207	239	369	400	401
55	158	170	201	215	213
65	73	78	87	92	89
75	18	20	22	22	21
85	0	0	0	0	0
90	0	0	0	0	0

FLUX

118
311
376
316
254
173
84
19
0



ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	805	22.3	48.8
0- 40	1120	31.1	67.9
0- 60	1546	43.0	93.7
0- 90	1650	45.8	100.0
90-180	0	0.0	0.0
0-180	1650	45.8	100.0

TOTAL LUMINAIRE EFFICIENCY: 45.8%

CIE TYPE: DIRECT

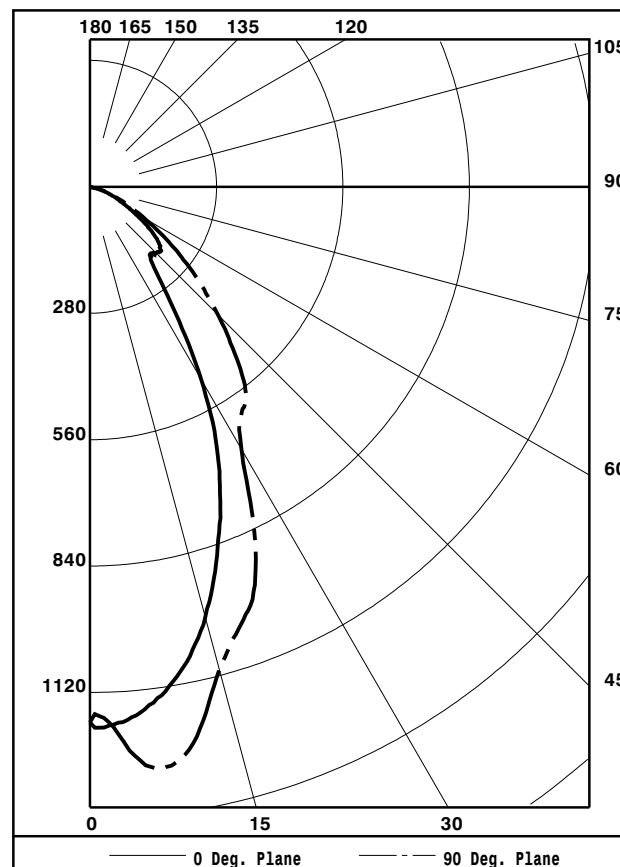
PLANE: 0-DEG 90-DEG

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	42994.	42994.	42994.
45	10621.	18933.	20575.
55	9994.	12714.	13473.
65	6267.	7469.	7641.
75	2523.	3084.	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	55	55	55	55	53	53	53	53	51	51	51	49	49	49	47	47	47	46
1	52	50	49	48	50	49	48	47	47	46	45	45	45	44	44	43	43	42
2	48	46	44	42	47	45	43	41	43	42	40	42	41	39	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	27	36	32	29	26	31	28	26	30	28	26	30	28	26	25
7	35	30	26	24	34	29	26	24	29	26	24	28	25	24	27	25	23	23
8	32	27	24	22	32	27	24	22	26	23	21	26	23	21	25	23	21	20
9	30	25	22	19	30	25	21	19	24	21	19	24	21	19	23	21	19	18
10	28	23	20	18	28	23	20	18	22	19	17	22	19	17	21	19	17	17

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	1185	1185	1185	1185	1185
5	1175	1189	1238	1284	1275
10	1103	1176	1253	1282	1265
15	986	1092	1146	1137	1107
20	830	949	1011	1018	1008
25	674	793	867	881	865
30	492	601	676	686	671
35	309	422	536	593	595
40	209	287	458	513	512
45	207	239	369	400	401
50	203	215	280	302	302
55	158	170	201	215	213
60	110	119	135	142	138
65	73	78	87	92	89
70	44	46	51	52	50
75	18	20	22	22	21
80	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	29.
5- 10	89.
10- 15	139.
15- 20	171.
20- 25	191.
25- 30	185.
30- 35	164.
35- 40	151.
40- 45	134.
45- 50	119.
50- 55	99.
55- 60	74.
60- 65	51.
65- 70	33.
70- 75	18.
75- 80	2.
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 1800.

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	41	40	44	52	37	34	35	38
20	30	47	39	37	42	43	34	30	31
20	40	47	41	37	38	43	38	31	29
20	60	47	41	40	39	43	38	36	31
30	20	45	42	43	48	42	37	36	38
30	30	49	41	36	39	46	37	31	31
30	40	49	43	37	35	46	40	32	29
30	60	49	43	40	36	46	40	37	31
30	80	49	43	40	37	46	40	37	31
40	20	51	45	45	48	48	41	39	40
40	30	54	45	38	39	51	41	34	33
40	40	54	46	38	35	51	44	35	30
40	60	54	46	41	36	51	44	38	32
40	80	54	46	41	36	51	44	38	32
40	100	54	46	41	36	51	44	38	32
60	30	54	48	40	40	51	44	37	35
60	40	54	50	41	36	51	46	37	32
60	60	54	50	43	38	51	46	40	34
60	80	54	50	43	38	51	46	40	34
60	100	54	50	43	38	51	46	40	34
100	40	54	49	44	42	51	46	41	38
100	60	54	50	46	43	51	46	44	40
100	80	54	50	46	43	51	46	44	40
100	100	54	50	46	43	51	46	44	40



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CIRCLE-OF-LIGHT

Ft below	FC nadir	Dia @ 50%
6.0	32.9	5.7
8.0	18.5	7.6
10.0	11.9	9.5
12.0	8.2	11.4
14.0	6.0	13.3
16.0	4.6	15.2

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