



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 05857

DATE: 06-15-2001

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 6HF226E-06616SCL

LUMINAIRE: FORMED STEEL HOUSING, SPUN SEMI-SPECULAR ALUMINUM REFLECTOR,
CLEAR GLASS PRISMATIC LENS ABOVE SPUN 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 = 52.1 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

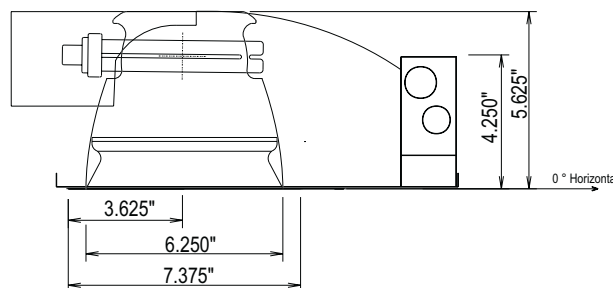
#05857

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	739	739	739	739	739
5	731	747	783	815	828
15	682	821	911	936	934
25	559	697	783	796	791
35	330	438	504	474	460
45	224	241	302	350	358
55	136	148	157	167	173
65	67	73	79	83	84
75	26	29	32	35	36
85	0	0	0	0	0
90	0	0	0	0	0

FLUX

77
243
334
287
228
141
77
33
0



ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	654	18.2	46.0
0- 40	941	26.1	66.2
0- 60	1310	36.4	92.2
0- 90	1421	39.5	100.0
90-180	0	0.0	0.0
0-180	1421	39.5	100.0

TOTAL LUMINAIRE EFFICIENCY: 39.5%

CIE TYPE: DIRECT

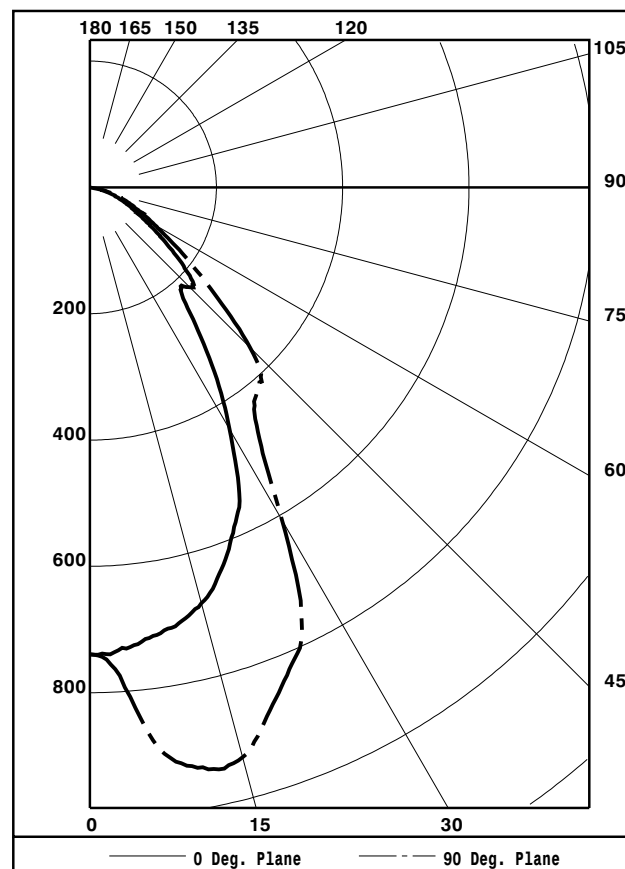
PLANE: 0-DEG 90-DEG

SPACING CRITERIA: 1.0 1.2

LUMINOUS DIAMETER: 6.250

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	37333.	37333.	37333.
45	16003.	21576.	25577.
55	11978.	13828.	15237.
65	8009.	9443.	10041.
75	5075.	6246.	7027.
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	50	30	10	0
0	47	47	47	47	46	46	46	46	44	44	44	42	42	42	40	40	40	40	40	40	39
1	44	43	42	41	43	42	41	40	40	40	39	39	38	38	38	37	36	36	36	36	36
2	41	39	37	35	40	38	37	35	37	36	34	36	35	33	35	34	33	32	32	32	32
3	39	36	33	31	38	35	33	31	34	32	30	33	31	30	32	31	30	29	29	29	29
4	36	32	30	28	35	32	29	28	31	29	27	30	28	27	29	28	27	26	26	26	26
5	34	29	27	25	33	29	26	24	28	26	24	28	26	24	27	25	24	23	23	23	23
6	31	27	24	22	31	27	24	22	26	24	22	25	23	22	25	23	22	21	21	21	21
7	29	25	22	20	29	25	22	20	24	21	20	23	21	20	23	21	19	19	19	19	19
8	27	23	20	18	27	22	20	18	22	19	18	21	19	18	21	19	17	17	17	17	17
9	25	21	18	16	25	20	18	16	20	17	16	20	17	16	19	17	16	15	15	15	15
10	24	19	16	14	23	19	16	14	18	16	14	18	16	14	18	16	14	13	13	13	13

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	739	739	739	739	739
5	731	747	783	815	828
10	709	791	898	931	931
15	682	821	911	936	934
20	627	776	865	869	861
25	559	697	783	796	791
30	442	570	650	622	608
35	330	438	504	474	460
40	230	312	414	427	413
45	224	241	302	350	358
50	194	202	220	242	250
55	136	148	157	167	173
60	96	102	109	115	118
65	67	73	79	83	84
70	46	50	54	57	59
75	26	29	32	35	36
80	4	6	6	7	7
85	0	0	0	0	0
90	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	18.
5- 10	59.
10- 15	103.
15- 20	139.
20- 25	163.
25- 30	171.
30- 35	152.
35- 40	135.
40- 45	124.
45- 50	104.
50- 55	81.
55- 60	60.
60- 65	45.
65- 70	32.
70- 75	22.
75- 80	11.
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	31	33	38	43	28	28	32	34
20	30	31	29	31	34	28	24	25	28
20	40	36	30	29	30	32	26	23	24
20	60	36	30	30	29	32	26	25	23
30	20	33	34	37	42	31	31	33	35
30	30	33	30	30	33	31	26	26	28
30	40	38	31	28	28	35	28	24	24
30	60	38	31	29	27	35	28	25	22
30	80	38	31	33	30	35	28	28	25
40	20	36	36	39	42	34	34	35	37
40	30	37	32	31	33	35	29	28	29
40	40	40	34	28	28	38	30	25	25
40	60	40	34	30	27	38	31	26	23
40	80	40	34	33	29	38	31	30	25
40	100	40	34	33	33	38	31	30	28
60	30	41	35	32	34	39	32	29	31
60	40	44	37	29	29	42	34	26	26
60	60	44	37	31	27	42	34	28	24
60	80	44	37	34	30	42	34	30	26
60	100	44	37	34	33	42	34	30	29
100	40	44	40	34	32	42	37	32	30
100	60	44	40	35	30	42	37	33	28
100	80	44	40	38	33	42	37	35	30
100	100	44	40	38	35	42	37	35	32



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CIRCLE-OF-LIGHT

Ft below	FC nadir	Dia @ 50%
6.0	20.5	7.0
8.0	11.5	9.3
10.0	7.4	11.6
12.0	5.1	14.0
14.0	3.8	16.3
16.0	2.9	18.6

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