



# LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING  
MEMBER

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

LTL NUMBER: 05856

DATE: 06-15-2001

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 6HF226E-06614SCL

LUMINAIRE: FORMED STEEL HOUSING, SPUN SEMI-SPECULAR ALUMINUM REFLECTOR,  
CLEAR ACRYLIC 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 = 50.8 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

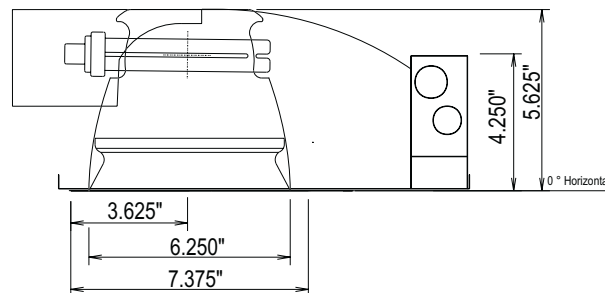
#05856

## CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	830	830	830	830	830
5	829	832	830	833	831
15	783	793	815	839	846
25	683	706	743	772	776
35	483	502	536	548	550
45	285	286	294	312	320
55	135	138	145	149	152
65	62	71	78	77	73
75	25	27	28	31	30
85	0	0	0	0	0
90	0	0	0	0	0

## FLUX

79
230
337
328
230
132
73
29
0



## ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	646	18.0	45.0
0- 40	974	27.1	67.8
0- 60	1336	37.1	92.9
0- 90	1438	39.9	100.0
90-180	0	0.0	0.0
0-180	1438	39.9	100.0

TOTAL LUMINAIRE EFFICIENCY: 39.9%

CIE TYPE: DIRECT

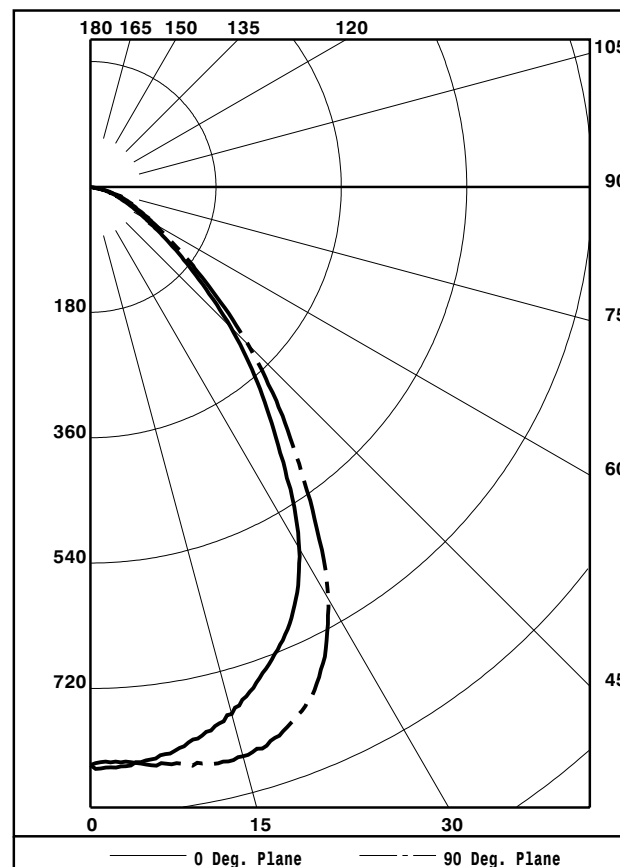
PLANE: 0-DEG 90-DEG

SPACING CRITERIA: 1.1 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	41930.	41930.	41930.
45	20361.	21004.	22862.
55	11890.	12771.	13388.
65	7411.	9324.	8726.
75	4880.	5465.	5856.
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	48	48	48	48	46	46	46	46	44	44	44	42	42	42	41	41	41	40
1	45	43	42	41	44	43	42	41	41	40	39	39	39	38	38	38	37	36
2	42	40	38	36	41	39	37	36	38	36	35	36	35	34	35	34	33	33
3	39	36	34	32	38	36	33	31	34	33	31	33	32	30	32	31	30	29
4	37	33	30	28	36	32	30	28	32	29	28	31	29	27	30	28	27	26
5	34	30	27	25	33	30	27	25	29	26	25	28	26	24	27	26	24	23
6	32	27	25	22	31	27	24	22	26	24	22	26	24	22	25	23	22	21
7	30	25	22	20	29	25	22	20	24	22	20	24	22	20	23	21	20	19
8	28	23	20	18	27	23	20	18	22	20	18	22	19	18	21	19	18	17
9	26	21	18	16	25	21	18	16	20	18	16	20	17	16	19	17	16	15
10	24	19	16	14	23	19	16	14	19	16	14	18	16	14	18	16	14	14

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	830	830	830	830	830
5	829	832	830	833	831
10	810	819	826	840	844
15	783	793	815	839	846
20	736	756	789	818	825
25	683	706	743	772	776
30	599	623	659	679	683
35	483	502	536	548	550
40	379	386	405	423	429
45	285	286	294	312	320
50	198	201	202	214	222
55	135	138	145	149	152
60	92	99	107	108	105
65	62	71	78	77	73
70	41	49	53	55	53
75	25	27	28	31	30
80	2	3	3	2	2
85	0	0	0	0	0
90	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	20.
5- 10	59.
10- 15	98.
15- 20	132.
20- 25	160.
25- 30	177.
30- 35	174.
35- 40	154.
40- 45	129.
45- 50	101.
50- 55	76.
55- 60	56.
60- 65	42.
65- 70	31.
70- 75	21.
75- 80	8.
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. 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	33	33	38	40	30	31	35	37
20	30	35	30	31	33	32	27	28	30
20	40	40	33	30	30	37	29	26	26
20	60	40	33	32	29	37	30	29	25
30	20	35	35	37	40	33	33	35	38
30	30	37	31	31	33	35	29	28	30
30	40	42	34	29	28	37	31	26	26
30	60	42	34	31	28	37	32	28	25
30	80	42	34	34	31	37	32	28	28
40	20	39	37	39	41	37	36	38	39
40	30	41	34	32	33	40	32	29	31
40	40	45	37	30	29	41	35	27	26
40	60	45	37	32	28	41	35	30	25
40	80	45	37	35	31	41	35	30	28
40	100	45	37	35	31	41	35	30	28
60	30	44	37	33	34	42	36	31	33
60	40	47	40	31	29	43	39	29	27
60	60	47	40	34	28	44	39	32	26
60	80	47	40	35	32	44	39	32	29
60	100	47	40	35	32	44	39	32	29
100	40	47	40	36	33	44	39	34	32
100	60	47	40	39	32	44	39	37	30
100	80	47	40	40	36	42	39	37	34
100	100	47	40	40	36	42	39	37	34



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LTL TEST #05856

CIRCLE-OF-LIGHT

Ft below	FC nadir	Dia @ 50%
6.0	23.1	7.0
8.0	13.0	9.3
10.0	8.3	11.7
12.0	5.8	14.0
14.0	4.2	16.3
16.0	3.2	18.6

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