



# 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: 05861

DATE: 06-18-2001

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 7HF226E-07600SCL

LUMINAIRE: FORMED STEEL HOUSING, SPUN SEMI-SPECULAR ALUMINUM REFLECTOR,  
NO ENCLOSURE.

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 = 49.9 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	1024	1024	1024	1024	1024	1024	1024	1024	1024	
5	1034	1049	1053	1057	1055	1049	1038	1019	1008	100
15	1035	1114	1126	1123	1086	1103	1058	1014	953	305
25	995	1102	1104	1147	1175	1119	1029	996	910	494
35	843	911	914	910	902	892	882	816	795	549
45	450	450	505	538	546	535	516	452	418	379
55	63	62	77	94	102	97	82	63	55	82
65	4	4	4	5	6	6	6	6	4	4
75	0	0	0	0	0	0	0	0	0	0
85	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	0

## ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	898	25.0	47.0
0- 40	1448	40.2	75.7
0- 60	1908	53.0	99.8
0- 90	1912	53.1	100.0
90-180	0	0.0	0.0
0-180	1912	53.1	100.0

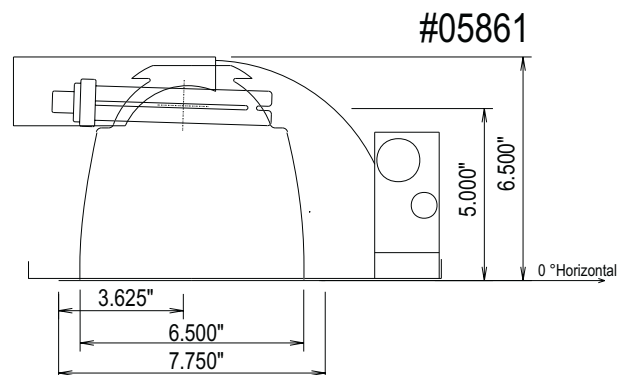
TOTAL LUMINAIRE EFFICIENCY: 53.1%

CIE TYPE: DIRECT

LUMINOUS DIAMETER: 6.500

## LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	47828.	47828.	47828.
45	29724.	33357.	36065.
55	5130.	6270.	8306.
65	442.	442.	663.
75	0.	0.	0.
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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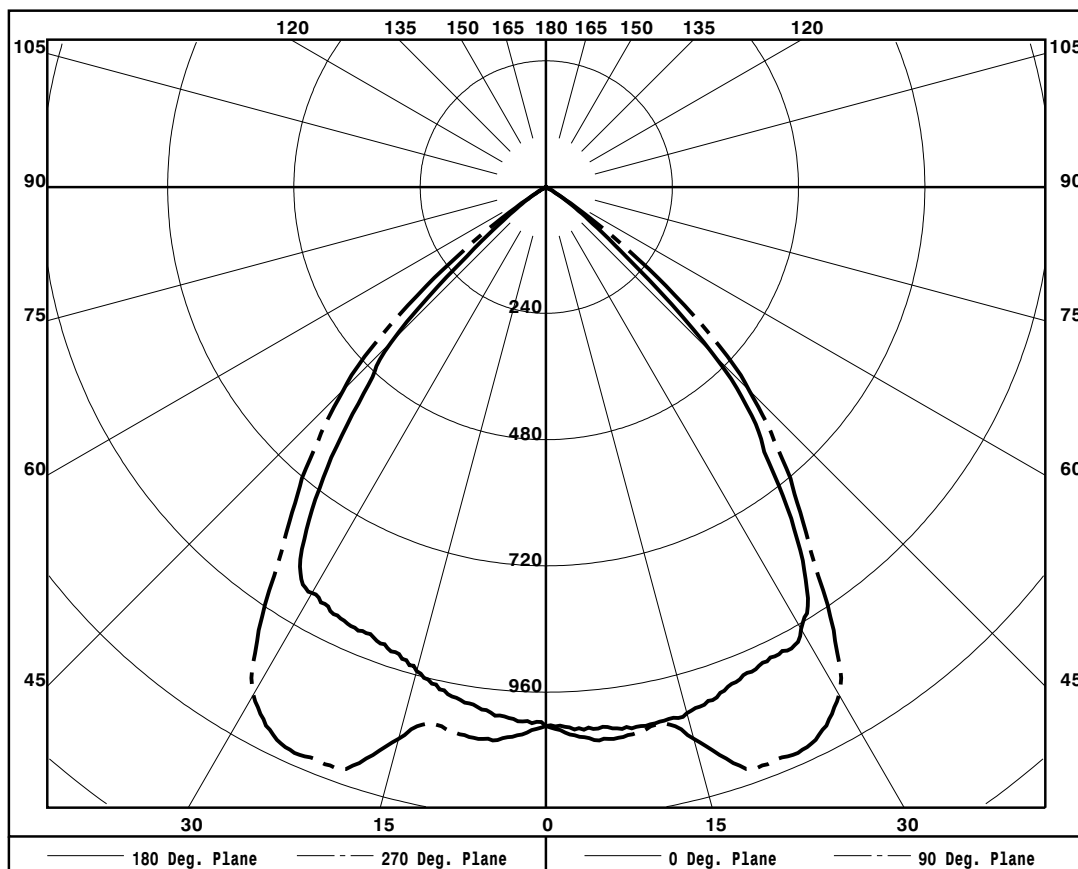
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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0
0	1024	1024	1024	1024	1024	1024	1024	1024	1024
5	1034	1049	1053	1057	1055	1049	1038	1019	1008
10	1040	1080	1091	1085	1051	1067	1052	1022	986
15	1035	1114	1126	1123	1086	1103	1058	1014	953
20	1011	1127	1127	1146	1175	1120	1047	1011	923
25	995	1102	1104	1147	1175	1119	1029	996	910
30	970	988	1031	1075	1114	1064	977	904	891
35	843	911	914	910	902	892	882	816	795
40	641	747	764	742	723	734	744	727	588
45	450	450	505	538	546	535	516	452	418
50	170	203	256	301	320	301	256	210	159
55	63	62	77	94	102	97	82	63	55
60	14	10	10	11	10	11	14	17	16
65	4	4	4	5	6	6	6	6	4
70	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0
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	25.
5- 10	75.
10- 15	126.
15- 20	178.
20- 25	228.
25- 30	266.
30- 35	281.
35- 40	269.
40- 45	229.
45- 50	150.
50- 55	66.
55- 60	15.
60- 65	3.
65- 70	1.
70- 75	0.
75- 80	0.
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	63	63	63	63	62	62	62	62	59	59	59	57	57	57	54	54	54	53
1	60	58	57	56	59	57	56	55	55	54	53	53	52	52	51	51	50	49
2	57	54	52	50	56	53	51	49	51	50	48	50	48	47	48	47	46	45
3	53	50	47	44	52	49	46	44	47	45	43	46	44	43	45	43	42	41
4	50	46	42	40	49	45	42	40	44	41	39	43	41	39	42	40	38	37
5	47	42	38	36	46	41	38	36	40	38	35	39	37	35	39	36	35	34
6	44	39	35	32	43	38	35	32	37	34	32	37	34	32	36	33	32	31
7	41	35	32	29	40	35	32	29	34	31	29	34	31	29	33	30	29	28
8	38	32	28	26	37	32	28	26	31	28	26	31	28	26	30	27	25	25
9	35	29	25	23	35	29	25	23	28	25	23	28	25	23	27	25	23	22
10	33	27	23	20	32	26	23	20	26	23	20	25	22	20	25	22	20	19

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 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	78	65	56	32	68	58	48	26
20	30	78	65	61	41	69	59	57	34
20	40	78	65	61	41	69	59	57	34
20	60	78	65	61	41	69	59	57	34
30	20	78	65	64	38	69	59	57	32
30	30	78	65	67	46	69	59	62	40
30	40	78	65	67	46	69	59	62	40
30	60	78	65	67	46	69	59	63	41
30	80	78	65	67	46	69	59	63	41
40	20	78	65	64	44	69	59	57	38
40	30	78	65	67	52	69	59	62	47
40	40	78	65	67	52	69	59	63	47
40	60	78	65	67	52	69	59	63	47
40	80	78	65	67	52	69	59	63	47
40	100	78	65	67	53	69	59	63	47
60	30	78	65	67	52	69	59	62	47
60	40	78	65	67	52	69	59	63	47
60	60	78	65	67	52	69	59	63	47
60	80	79	65	68	53	69	59	63	47
60	100	79	66	68	53	69	59	63	47
100	40	78	65	67	52	69	59	63	47
100	60	79	65	68	53	69	59	63	47
100	80	79	65	68	53	69	59	63	47
100	100	79	66	68	53	69	59	63	47



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CIRCLE-OF-LIGHT

Ft below	FC nadir	Dia @ 50%
6.0	28.4	8.1
8.0	16.0	10.8
10.0	10.2	13.5
12.0	7.1	16.2
14.0	5.2	19.0
16.0	4.0	21.7

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