



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 05851

DATE: 06-11-2001

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 6HF213E-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 13W/27/4P RATED AT 900 LUMENS EACH.

BALLAST: ONE ADVANCE ICF-2S13-H1-LD

MOUNTING: RECESSED

TOTAL INPUT WATTS = 27.3 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

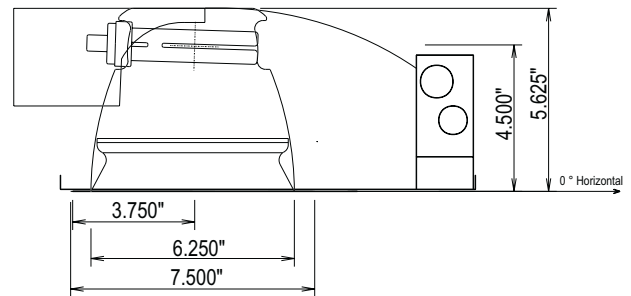
#05851

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	397	397	397	397	397
5	389	400	423	444	449
15	347	423	490	520	528
25	263	337	410	438	439
35	125	160	245	268	257
45	105	105	144	178	184
55	64	67	73	78	81
65	30	31	36	39	40
75	11	11	12	15	15
85	0	0	0	0	0
90	0	0	0	0	0

FLUX

42
131
173
138
110
67
35
14
0



ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	345	19.2	48.8
0- 40	483	26.8	68.2
0- 60	660	36.6	93.2
0- 90	708	39.3	100.0
90-180	0	0.0	0.0
0-180	708	39.3	100.0

TOTAL LUMINAIRE EFFICIENCY: 39.3%

CIE TYPE: DIRECT

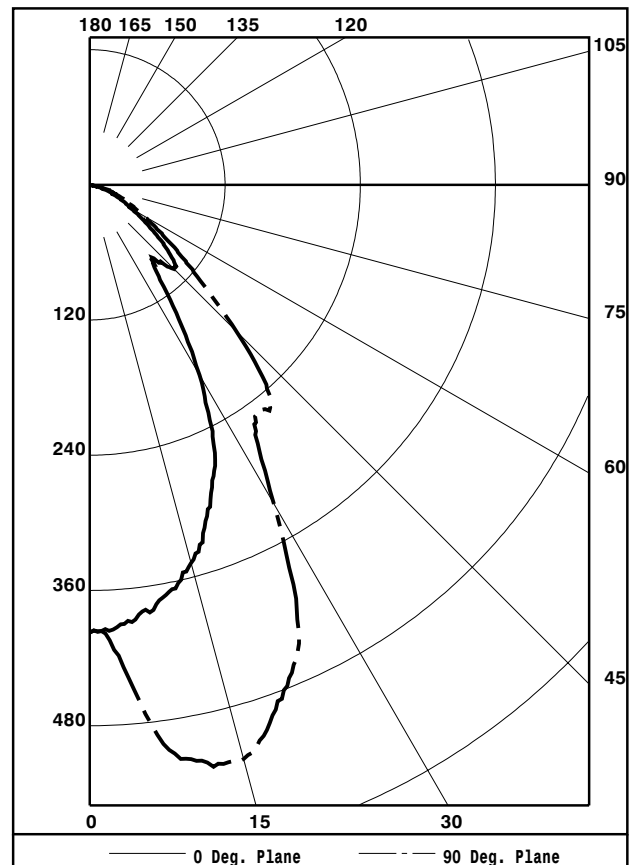
PLANE: 0-DEG 90-DEG

SPACING CRITERIA: 0.9 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	20056.	20056.	20056.
45	7502.	10288.	13146.
55	5637.	6430.	7134.
65	3586.	4303.	4781.
75	2147.	2342.	2928.
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	41	40	39	39	38	38	38	37	37	37	37	37	36
2	42	39	37	36	41	39	37	35	37	36	35	36	35	34	35	34	33	33	33	33	32
3	39	36	34	32	38	35	33	31	34	32	31	33	32	30	32	31	30	30	30	30	29
4	36	33	30	28	36	32	30	28	31	29	28	31	29	27	30	28	27	27	27	27	26
5	34	30	27	25	33	30	27	25	29	26	25	28	26	24	27	26	24	24	24	24	24
6	32	28	25	23	31	27	25	23	27	24	22	26	24	22	25	24	22	22	22	22	21
7	30	25	22	20	29	25	22	20	24	22	20	24	22	20	23	22	20	20	20	20	19
8	28	23	20	18	27	23	20	18	22	20	18	22	20	18	22	20	18	18	18	18	17
9	26	21	18	16	25	21	18	16	20	18	16	20	18	16	20	18	16	16	16	16	16
10	24	19	17	15	24	19	17	15	19	16	15	19	16	15	18	16	15	15	15	15	14

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	397	397	397	397	397
5	389	400	423	444	449
10	372	419	485	513	518
15	347	423	490	520	528
20	306	388	459	488	488
25	263	337	410	438	439
30	195	254	319	330	326
35	125	160	245	268	257
40	87	105	198	251	249
45	105	105	144	178	184
50	90	95	107	116	120
55	64	67	73	78	81
60	45	47	52	55	55
65	30	31	36	39	40
70	21	21	22	25	25
75	11	11	12	15	15
80	1	1	2	3	2
85	0	0	0	0	0
90	0	0	0	0	0

ZONAL LUMEN SUMMARY

	0- 5	10.
0	5- 10	32.
5	10- 15	56.
10	15- 20	75.
15	20- 25	87.
20	25- 30	86.
25	30- 35	73.
30	35- 40	65.
35	40- 45	59.
40	45- 50	51.
45	50- 55	38.
50	55- 60	28.
55	60- 65	20.
60	65- 70	14.
65	70- 75	10.
70	75- 80	4.
75	80- 85	0.
80	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 900.

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	55	56	61	68	50	49	53	54
20	30	57	53	54	58	50	45	46	47
20	40	57	55	52	53	55	47	44	43
20	60	57	56	55	52	55	47	45	42
30	20	57	57	60	65	53	52	54	55
30	30	59	53	52	55	53	47	46	47
30	40	59	56	50	50	58	49	43	43
30	60	59	56	53	49	58	49	45	41
30	80	59	56	53	53	58	49	49	44
40	20	60	59	61	65	57	55	56	57
40	30	62	56	53	55	58	50	48	49
40	40	62	58	51	50	61	52	45	44
40	60	62	58	54	48	61	52	47	42
40	80	62	58	54	52	61	52	50	45
40	100	62	58	54	52	61	52	50	46
60	30	65	59	54	56	58	54	50	50
60	40	65	61	52	50	61	56	47	45
60	60	65	61	55	49	61	56	48	43
60	80	65	61	55	52	61	56	51	46
60	100	65	61	55	52	61	56	51	48
100	40	65	62	57	54	61	56	51	50
100	60	65	62	59	52	61	56	52	48
100	80	65	62	59	55	61	56	55	50
100	100	65	62	59	56	61	56	55	52



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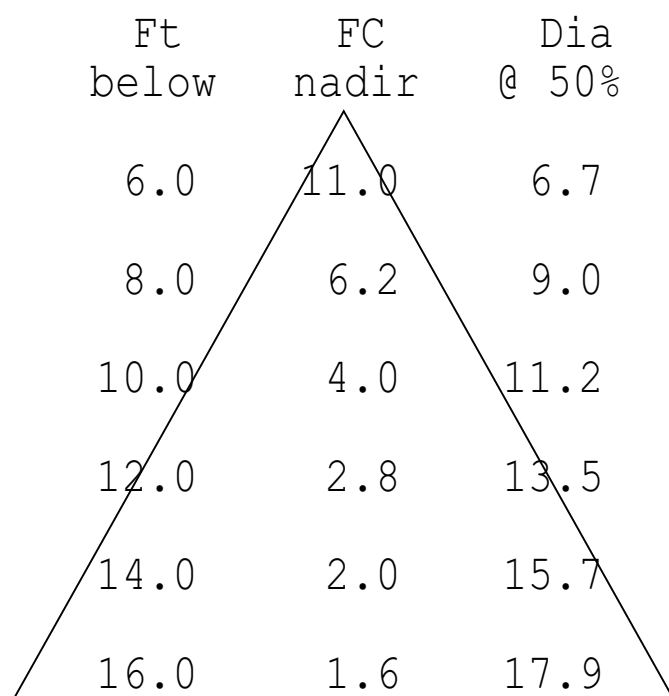


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LTL TEST #05851

CIRCLE-OF-LIGHT



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