



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 06659

DATE: 06-27-2002

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 5VF113E1-05050SCL/BL

LUMINAIRE: FORMED STEEL HOUSING, SPUN SPECULAR ALUMINUM REFLECTOR WITH
SPUN BLACK ENAMEL ALUMINUM BAFFLE, NO ENCLOSURE.

LAMP: ONE SYLVANIA CF13/DD/E/835 RATED AT 900 LUMENS.

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

MOUNTING: RECESSED

TOTAL INPUT WATTS = 14.7 AT 120.0 VOLTS

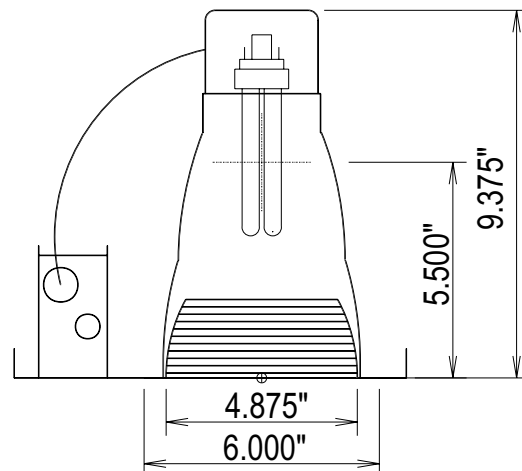
#06659

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	57	57	57	57	57
5	59	61	62	62	61
15	87	93	99	92	86
25	110	109	106	110	108
35	100	99	88	101	101
45	56	55	52	56	55
55	6	5	5	6	6
65	0	0	0	0	0
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

FLUX

6
26
50
60
42
7
0
0
0



ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	82	9.1	43.1
0- 40	143	15.9	74.7
0- 60	191	21.2	100.0
0- 90	191	21.2	100.0
90-180	0	0.0	0.0
0-180	191	21.2	100.0

TOTAL LUMINAIRE EFFICIENCY:

21.2%

CIE TYPE: DIRECT

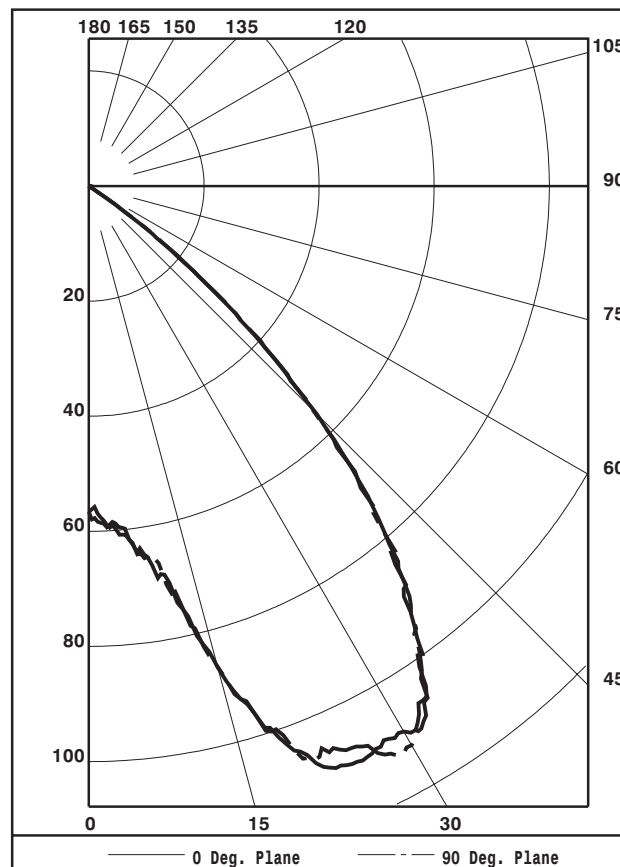
PLANE: 0-DEG 90-DEG

SPACING CRITERIA: 1.8 1.8

LUMINOUS DIAMETER: 4.875

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	4733.	4733.	4733.
45	6576.	6106.	6459.
55	869.	724.	869.
65	0.	0.	0.
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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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	25	25	25	25	25	25	25	25	24	24	24	23	23	23	22	22	22	21
1	24	23	23	22	23	23	22	22	22	22	21	21	21	21	20	20	20	20
2	23	21	21	20	22	21	20	19	20	20	19	20	19	19	19	19	18	18
3	21	20	19	18	21	19	18	17	19	18	17	18	18	17	18	17	17	16
4	20	18	17	16	19	18	17	16	17	16	15	17	16	15	16	16	15	15
5	19	17	15	14	18	16	15	14	16	15	14	16	14	14	15	14	14	13
6	17	15	14	13	17	15	14	13	15	13	12	14	13	12	14	13	12	12
7	16	14	12	11	16	14	12	11	13	12	11	13	12	11	13	12	11	11
8	15	12	11	10	15	12	11	10	12	11	10	12	11	10	12	11	10	9
9	14	11	10	9	13	11	10	9	11	10	9	11	9	9	10	9	8	8
10	13	10	9	8	12	10	9	8	10	9	8	10	8	8	9	8	8	7

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	57	57	57	57	57
5	59	61	62	62	61
10	69	73	76	71	66
15	87	93	99	92	86
20	104	105	108	107	104
25	110	109	106	110	108
30	109	108	99	110	112
35	100	99	88	101	101
40	81	82	72	82	83
45	56	55	52	56	55
50	28	29	28	30	29
55	6	5	5	6	6
60	0	0	0	0	0
65	0	0	0	0	0
70	0	0	0	0	0
75	0	0	0	0	0
80	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	1.
5- 10	5.
10- 15	10.
15- 20	17.
20- 25	23.
25- 30	27.
30- 35	31.
35- 40	30.
40- 45	25.
45- 50	17.
50- 55	7.
55- 60	0.
60- 65	0.
65- 70	0.
70- 75	0.
75- 80	0.
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 900.

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	90	90	89	74	90	89	89	74
20	30	90	90	89	75	90	89	89	75
20	40	91	90	89	75	90	89	89	75
20	60	91	90	90	75	90	90	89	75
30	20	90	90	89	77	90	89	89	77
30	30	91	90	89	77	90	89	89	77
30	40	91	90	90	77	90	90	89	77
30	60	91	90	90	77	90	90	90	77
30	80	91	90	90	78	91	90	90	77
40	20	91	90	89	77	90	89	89	77
40	30	91	90	90	77	90	90	89	77
40	40	91	90	90	77	90	90	90	77
40	60	91	90	90	78	91	90	90	77
40	80	91	91	90	78	91	90	90	78
40	100	91	91	90	78	91	90	90	78
60	30	91	90	90	77	90	90	90	77
60	40	91	90	90	78	91	90	90	77
60	60	91	91	90	78	91	90	90	78
60	80	91	91	90	78	91	90	90	78
60	100	91	91	90	78	91	90	90	78
100	40	91	91	90	78	91	90	90	78
100	60	91	91	90	78	91	90	90	78
100	80	91	91	90	78	91	90	90	78
100	100	91	91	90	78	91	90	90	78

THIS TABLE WAS CALCULATED ACCORDING TO IESNA LM-42-72. THE VCP CALCULATION PROCEDURE IS MOST ACCURATE FOR LUMINAIRES THAT EXHIBIT THE FOLLOWING CHARACTERISTICS. 1). LUMINAIRE IS RELATIVELY CONSISTANT IN LUMINANCE 2). LUMINAIRE HAS WELL-DEFINED LUMINOUS EDGES AND 3). LUMINAIRE UTILIZES FLUORESCENT LAMPS. CAUTION SHOULD BE USED WHEN APPLYING VCP VALUES BASED ON LUMINAIRES THAT DO NOT CONFORM TO THE ABOVE CONDITIONS.



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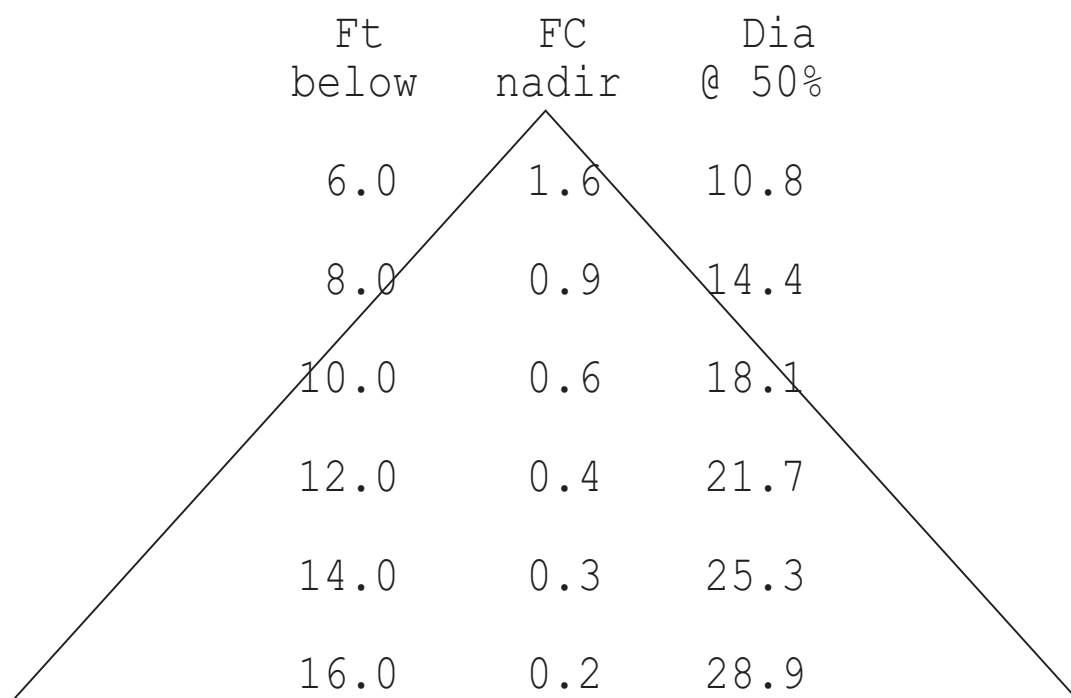


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LTL TEST #06659

CIRCLE-OF-LIGHT



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