



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 06651

DATE: 06-27-2002

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 5INC-05050SCL/BL

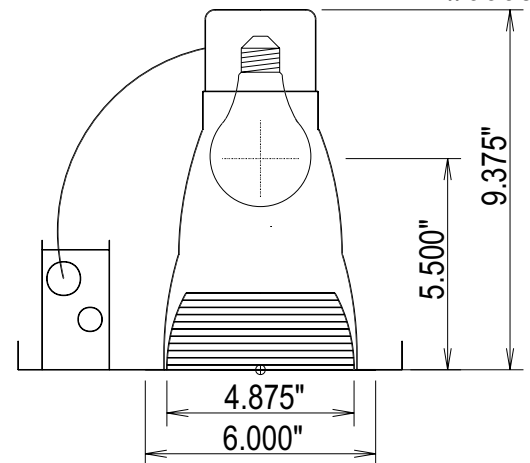
LUMINAIRE: FORMED STEEL HOUSING, SPUN SPECULAR ALUMINUM REFLECTOR WITH
SPUN BLACK ENAMEL ALUMINUM BAFFLE, NO ENCLOSURE.

LAMP: ONE GE 100A STANDARD 100 WATT A19 INCANDESCENT RATED AT 1710
LUMENS.

MOUNTING: RECESSED

#06651

DEG	CANDELA	LUMENS
0	195	
5	196	19
15	196	56
25	171	80
35	156	100
45	142	105
55	6	13
65	0	0
75	0	0
85	0	0
90	0	



ZONAL LUMEN SUMMARY			
ZONE	LUMENS	%LAMP	%FIXT
0- 30	154	9.0	41.5
0- 40	254	14.9	68.3
0- 60	372	21.8	100.0
0- 90	372	21.8	100.0
90-180	0	0.0	0.0
0-180	372	21.8	100.0

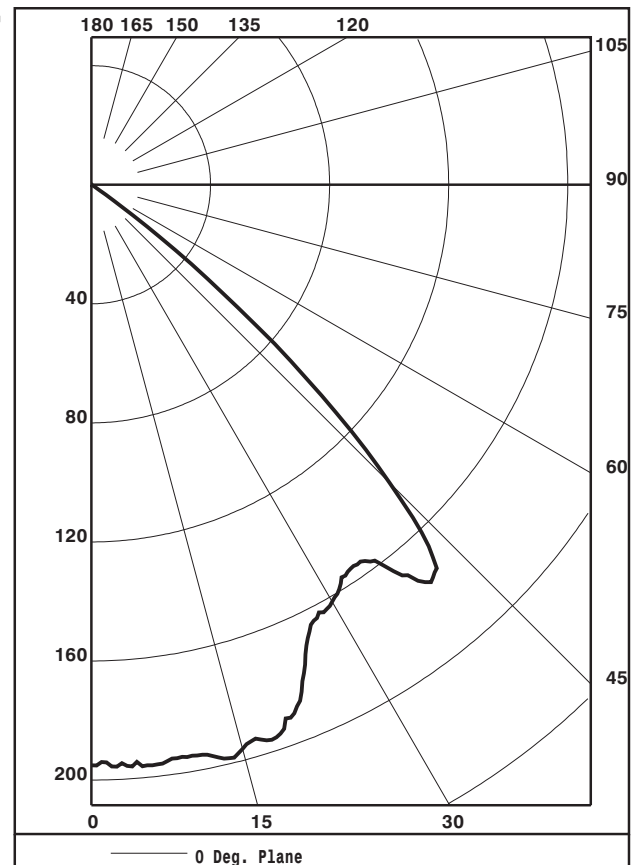
TOTAL LUMINAIRE EFFICIENCY: 21.8%
CIE TYPE: DIRECT
LUMINAIRE SPACING CRITERION = 1.2
LUMINOUS DIAMETER: 4.875

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE AVERAGE

IN DEG

0	16192.
45	16675.
55	869.
65	0.
75	0.
85	0.



TESTED BY HERSCHEL SCHRECK
CHECKED BY MIKE GRATHER

THIS REPORT BASED ON LM-46 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	26	26	26	26	25	25	25	25	24	24	24	23	23	23	22	22	22	22
1	25	24	23	23	24	24	23	23	23	22	22	22	21	21	21	21	21	20
2	23	22	21	21	23	22	21	20	21	20	20	20	20	19	20	19	19	19
3	22	20	19	18	22	20	19	18	20	19	18	19	18	18	19	18	17	17
4	21	19	18	17	20	19	17	17	18	17	16	18	17	16	17	17	16	16
5	19	17	16	15	19	17	16	15	17	16	15	16	15	15	16	15	15	14
6	18	16	15	14	18	16	14	13	15	14	13	15	14	13	15	14	13	13
7	17	15	13	12	17	14	13	12	14	13	12	14	13	12	14	13	12	11
8	16	13	12	11	15	13	12	11	13	12	11	13	11	11	12	11	11	10
9	15	12	11	10	14	12	10	9	12	10	9	12	10	9	11	10	9	9
10	13	11	9	8	13	11	9	8	11	9	8	10	9	8	10	9	8	8

CANDELA DISTRIBUTION

	0.0
0	195
5	196
10	195
15	196
20	191
25	171
30	162
35	156
40	174
45	142
50	64
55	6
60	0
65	0
70	0
75	0
80	0
85	0
90	0

ZONAL LUMEN SUMMARY

0- 5	5.
5- 10	14.
10- 15	23.
15- 20	32.
20- 25	39.
25- 30	42.
30- 35	46.
35- 40	54.
40- 45	63.
45- 50	42.
50- 55	13.
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) 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. 2) THIS TEST WAS CONDUCTED IN A CONTROLLED LABORATORY ENVIRONMENT, FIELD PERFORMANCE MAY DIFFER.



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VISUAL COMFORT PROBABILITY TABLE

RATED LUMENS PER LAMP 1710.

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	75	72	71	49	75	72	71	49
20	30	75	72	72	49	75	72	72	49
20	40	75	72	72	49	75	72	72	49
20	60	75	72	72	49	75	72	72	49
30	20	75	72	72	53	75	72	72	53
30	30	75	72	72	53	75	72	72	53
30	40	76	72	72	53	76	72	72	53
30	60	76	72	72	53	76	72	72	53
30	80	76	73	72	53	76	73	72	53
40	20	75	72	72	53	75	72	72	53
40	30	76	72	72	53	76	72	72	53
40	40	76	72	72	53	76	72	72	53
40	60	76	73	72	53	76	73	72	53
40	80	76	73	73	53	76	73	73	53
40	100	76	73	73	53	76	73	73	53
60	30	76	72	72	53	76	72	72	53
60	40	76	73	72	53	76	73	72	53
60	60	76	73	73	53	76	73	73	53
60	80	76	73	73	54	76	73	73	54
60	100	76	73	73	54	76	73	73	54
100	40	76	73	72	53	76	73	72	53
100	60	76	73	73	54	76	73	73	54
100	80	76	73	73	54	76	73	73	54
100	100	76	73	73	54	76	73	73	54

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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LTL TEST #06651

CIRCLE-OF-LIGHT

Ft below	FC nadir	Dia @ 50%
6.0	5.4	7.4
8.0	3.0	9.9
10.0	2.0	12.3
12.0	1.4	14.8
14.0	1.0	17.3
16.0	0.8	19.7

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