LTL LUMINAIRE TESTING LABORATORY, INC.

SUSTAINING MEMBER of the IESNA

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

LTL NUMBER: 10457 DATE: 10-04-2006
PREPARED FOR: AMERLUX LIGHTING SYSTEMS
CATALOG NUMBER: E2.9SA-20-T4GU6.5-120-NF/E2.9SA-SDW
LUMINAIRE: FORMED STEEL HOUSING, SPUN AND FORMED FACETED SPECULAR ALUMINUM REFLECTOR, CLEAR "SOLITE" PATTERNED GLASS LENS ABOVE FORMED WHITE ENAMEL ALUMINUM LOWER REFLECTOR.
LAMP: ONE CLEAR VBU 20 WATT T4 SINGLE ENDED CERAMIC METAL HALIDE LAMP RATED AT 1615 LUMENS.
LAMP CATALOG NUMBER: GE CMH20T/U/830/GU6.5
BALLAST: ONE ADVANCE RMH-20-E-LF
MOUNTING: RECESSED

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	FLUX
0	84	84	84	84	84	84	84	84	84	
5	149	132	112	82	70	66	64	60	58	8
15	670	411	163	74	47	35	31	33	29	43
25	2878	1064	169	48	35	32	23	16	19	164
35	3665	812	68	32	23	16	17	24	21	214
45	710	186	31	16	15	12	15	21	13	70
55	98	33	12	1	0	8	16	21	13	15
65	21	15	0	0	0	0	11	15	13	7
75	0	0	0	0	0	0	0	4	3	1
85	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	216	13.3	41.3
0- 40	430	26.6	82.2
0- 60	515	31.9	98.5
0- 90	522	32.3	100.0
90-180	0	0.0	0.0
0-180	522	32.3	100.0

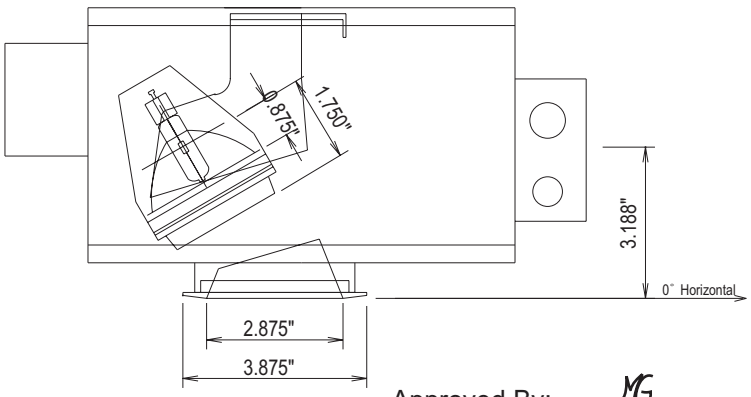
TOTAL LUMINAIRE EFFICIENCY: 32.3%

CIE TYPE:	DIRECT		
PLANE:	0-DEG	90-DEG	180-DEG
SPACING CRITERIA:	2.5	0.5	0.4
LUMINOUS LENGTH:	2.875	2.875	

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	15751.	15751.	15751.
45	188277.	8221.	3978.
55	32038.	3923.	0.
65	9317.	0.	0.
75	0.	0.	0.
85	0.	0.	0.

#10457



Approved By: MG

THIS REPORT BASED ON LM-46 AND OTHER PERTINENT IESNA PROCEDURES.

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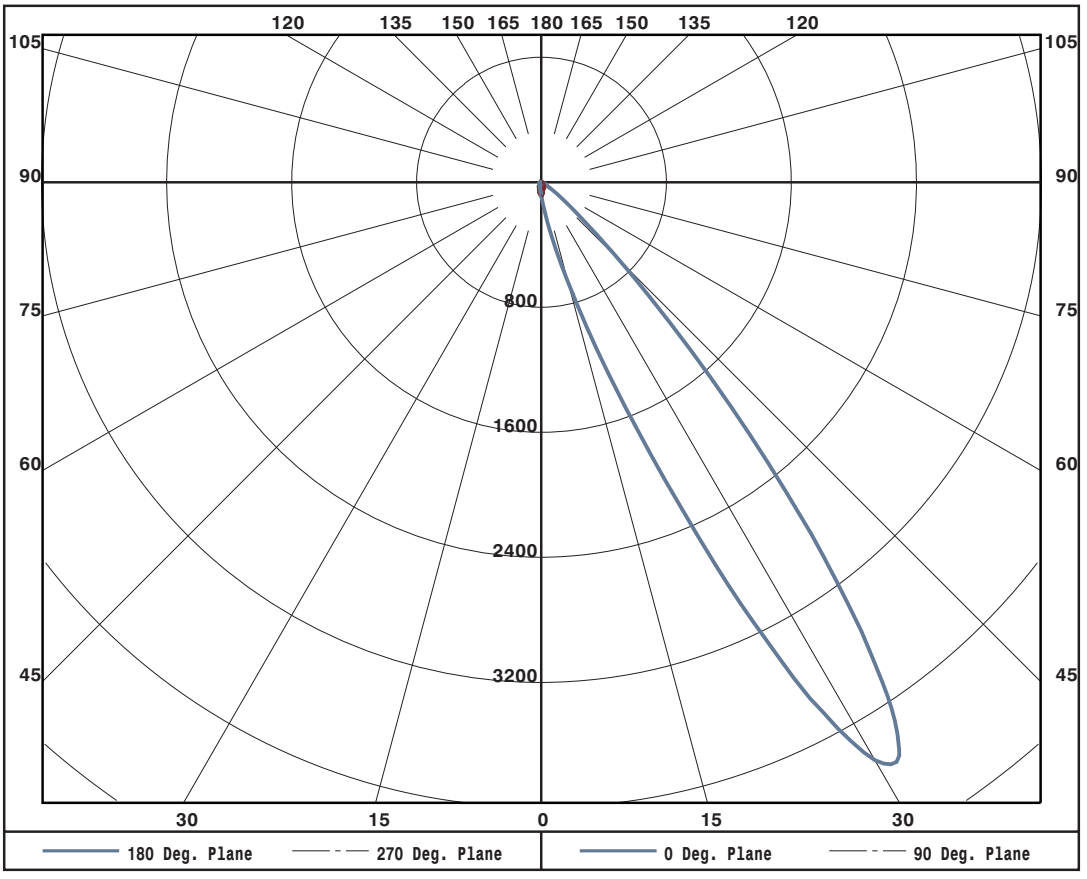
CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0
0	84	84	84	84	84	84	84	84	84
5	149	132	112	82	70	66	64	60	58
10	311	235	141	82	60	47	47	47	48
15	670	411	163	74	47	35	31	33	29
20	1433	714	175	57	33	36	32	33	35
25	2878	1064	169	48	35	32	23	16	19
30	4271	1104	126	36	32	20	16	20	19
35	3665	812	68	32	23	16	17	24	21
40	1953	453	37	21	20	17	16	21	24
45	710	186	31	16	15	12	15	21	13
50	242	68	19	16	3	8	15	21	11
55	98	33	12	1	0	8	16	21	13
60	29	9	13	0	0	1	13	19	16
65	21	15	0	0	0	0	11	15	13
70	3	0	0	0	0	0	5	13	13
75	0	0	0	0	0	0	0	4	3
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	2.
5- 10	7.
10- 15	14.
15- 20	29.
20- 25	60.
25- 30	104.
30- 35	122.
35- 40	92.
40- 45	48.
45- 50	22.
50- 55	10.
55- 60	6.
60- 65	5.
65- 70	2.
70- 75	1.
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	38	38	38	38	38	38	38	38	36	36	36	34	34	34	33	33	33	32
1	37	36	35	34	36	35	34	33	34	33	32	32	32	31	31	31	30	30
2	35	33	32	30	34	32	31	30	31	30	29	30	29	29	29	29	28	28
3	33	30	29	27	32	30	28	27	29	28	27	28	27	26	27	26	26	25
4	31	28	26	25	30	28	26	24	27	25	24	26	25	24	26	24	23	23
5	29	26	24	22	28	25	23	22	25	23	22	24	23	21	24	22	21	21
6	27	24	21	20	26	23	21	20	23	21	20	22	21	19	22	20	19	19
7	25	21	19	18	24	21	19	18	21	19	18	20	19	17	20	18	17	17
8	23	20	17	16	23	19	17	16	19	17	16	19	17	16	18	17	15	15
9	21	18	15	14	21	17	15	14	17	15	14	17	15	14	17	15	14	13
10	20	16	14	12	19	16	14	12	16	13	12	15	13	12	15	13	12	12

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.