



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: 13909

DATE: 09-16-2008

PREPARED FOR: USA ILLUMINATION, INC.

CATALOG NUMBER: 1650-TRIM/BL130-HOUSING/(1) 39W CMH MR16

LUMINAIRE: FORMED STEEL HOUSING, FROSTED GLASS ENCLOSURE ABOVE CAST WHITE ENAMEL ALUMINUM REFLECTOR.

LAMP: ONE VBU M130 39 WATT MR16 CERAMIC METAL HALIDE REFLECTOR LAMP RATED AT 2100 LUMENS.

LAMP CATALOG NUMBER: GE CMH39MR16/930/FL

BALLAST: ONE HATCH TRANSFORMERS MC39-1-J-120X

MOUNTING: RECESSED

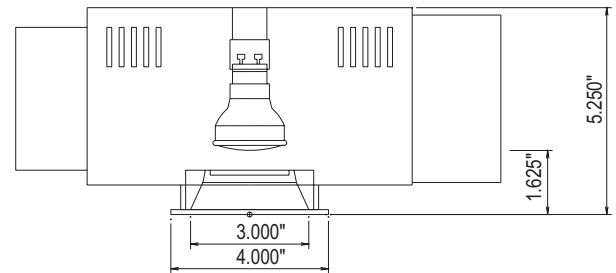
CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	2396	2396	2396	2396	2396
5	2237	2238	2237	2235	2236
15	1349	1350	1349	1341	1339
25	647	653	658	649	643
35	314	327	343	327	312
45	152	164	182	164	153
55	68	76	89	77	68
65	24	27	31	27	25
75	8	8	8	8	8
85	0	0	0	0	0
90	0	0	0	0	0

FLUX

203
374
302
207
129
70
28
9
1

#13909



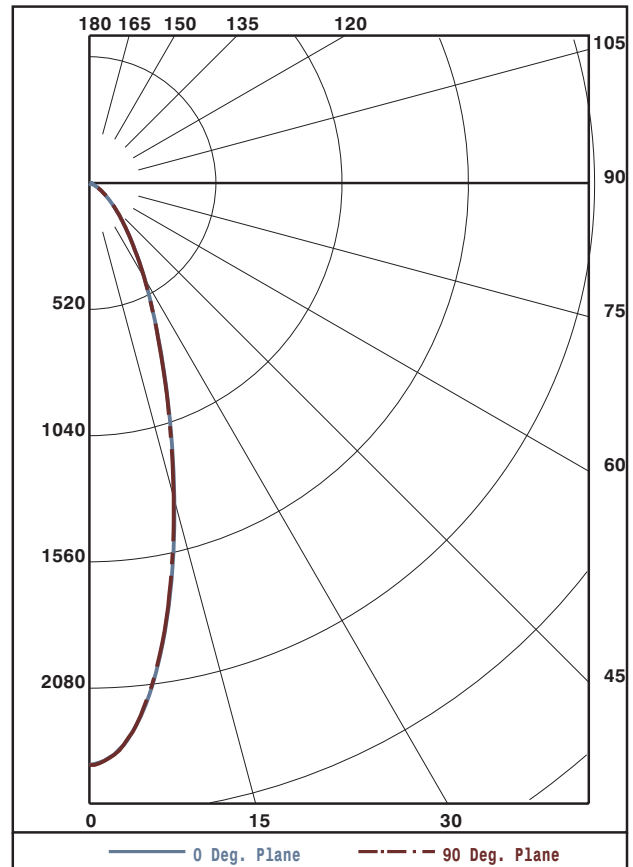
ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	879	41.9	66.5
0- 40	1086	51.7	82.1
0- 60	1285	61.2	97.1
0- 90	1323	63.0	100.0
90-180	0	0.0	0.0
0-180	1323	63.0	100.0

TOTAL LUMINAIRE EFFICIENCY: 63.0%
 CIE TYPE: DIRECT
 PLANE: 0-DEG 90-DEG
 SPACING CRITERIA: 0.5 0.5
 LUMINOUS LENGTH: 3.000 3.000

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	412614.	412614.	412614.
45	37018.	44324.	37262.
55	20416.	26721.	20416.
65	9780.	12632.	10187.
75	5323.	5323.	5323.
85	0.	0.	0.



Approved By: MG

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



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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD
EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
0	75	75	75	75	73	73	73	73	70	70	70	67	67	67	64	64	64	63
1	72	70	69	67	70	69	67	66	66	65	64	64	63	62	62	61	60	59
2	69	66	63	61	67	65	63	61	63	61	59	61	59	58	59	58	57	56
3	66	62	59	57	64	61	58	56	59	57	55	58	56	55	57	55	54	53
4	63	58	55	53	62	58	55	53	56	54	52	55	53	51	54	52	51	50
5	60	55	52	49	59	55	51	49	53	51	49	52	50	48	51	49	48	47
6	57	52	49	46	56	52	49	46	51	48	46	50	48	46	49	47	45	44
7	55	49	46	43	54	49	46	43	48	45	43	47	45	43	47	44	43	42
8	52	47	43	41	52	46	43	41	46	43	41	45	43	41	45	42	40	40
9	50	44	41	39	49	44	41	39	44	41	38	43	40	38	42	40	38	37
10	48	42	39	37	47	42	39	37	42	39	37	41	38	36	41	38	36	36

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	2396	2396	2396	2396	2396
5	2237	2238	2237	2235	2236
10	1831	1830	1828	1823	1822
15	1349	1350	1349	1341	1339
20	939	943	945	936	931
25	647	653	658	649	643
30	453	461	468	459	451
35	314	327	343	327	312
40	219	231	253	231	219
45	152	164	182	164	153
50	103	114	130	114	104
55	68	76	89	77	68
60	42	48	56	48	42
65	24	27	31	27	25
70	14	14	15	14	14
75	8	8	8	8	8
80	4	4	4	3	4
85	0	0	0	0	0
90	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	56.
5- 10	147.
10- 15	188.
15- 20	186.
20- 25	164.
25- 30	138.
30- 35	115.
35- 40	92.
40- 45	73.
45- 50	56.
50- 55	41.
55- 60	29.
60- 65	18.
65- 70	10.
70- 75	6.
75- 80	3.
80- 85	1.
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.



LTL TEST #13909

CIRCLE-OF-LIGHT

Ft below	FC nadir	Dia @ 50%
6.0	66.6	3.3
8.0	37.4	4.3
10.0	24.0	5.4
12.0	16.6	6.5
14.0	12.2	7.6
16.0	9.4	8.7

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