



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: 09152

DATE: 08-02-2005

PREPARED FOR: ENERGY PLUS

CATALOG NUMBER: LIL-55-120

LUMINAIRE: FORMED ALUMINUM AND MOLDED POLYCARBONATE HOUSING, FLAT SPECULAR ALUMINUM REFLECTOR, CLEAR POLYCARBONATE PATTERNED ENCLOSURE.

LAMP: ONE VBU 55 WATT INDUCTION LAMP RATED AT 3500 LUMENS.

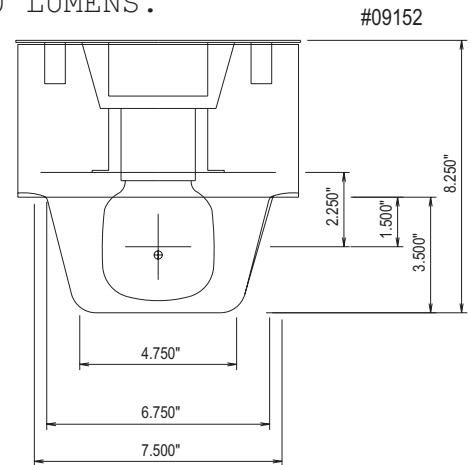
LAMP CATALOG NUMBER: PHILIPS QL55W/840

GENERATOR: PHILIPS QL55W100-120V

MOUNTING: SURFACE

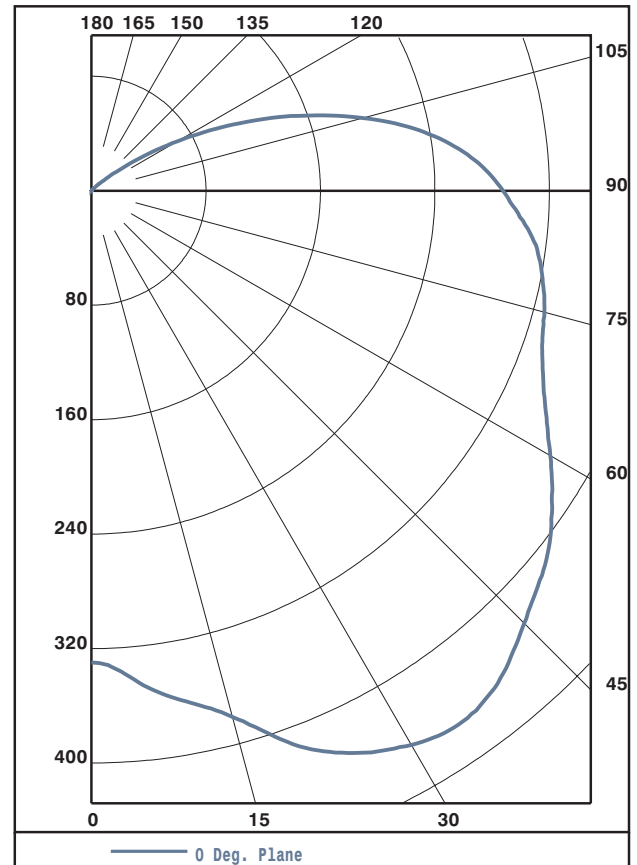
TOTAL INPUT WATTS = 53.6 AT 120.0 VOLTS

DEG	CANDELA	LUMENS
0	330	
5	343	33
15	381	109
25	434	201
35	453	283
45	428	331
55	393	352
65	350	348
75	328	346
85	306	333
90	288	
95	266	289
105	196	208
115	110	110
125	35	33
135	4	4
145	0	0
155	0	0
165	0	0
175	0	0
180	0	0



ZONAL ZONE	LUMEN SUMMARY LUMENS	%LAMP	%FIXT
0- 30	343	9.8	11.5
0- 40	626	17.9	21.0
0- 60	1309	37.4	43.9
0- 90	2337	66.8	78.4
90-120	607	17.3	20.4
90-130	640	18.3	21.5
90-150	644	18.4	21.6
90-180	644	18.4	21.6
0-180	2981	85.2	100.0

TOTAL LUMINAIRE EFFICIENCY: 85.2%
 CIE TYPE: SEMI-DIRECT
 LUMINAIRE SPACING CRITERION = 1.9



TESTED BY HERSCHEL SCHRECK
 CHECKED BY MIKE GRATHER



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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	97	97	97	97	97	93	93	93	93	84	84	84	77	77	77	70	70	70	67
1	85	79	74	70	70	80	76	71	67	68	65	62	62	59	56	56	54	52	48
2	76	67	60	54	54	71	64	57	52	58	52	48	52	48	44	47	43	40	37
3	68	58	50	43	43	64	55	48	42	50	44	39	45	40	36	40	36	33	30
4	62	51	42	36	36	58	48	40	34	44	37	32	39	34	30	35	31	27	25
5	56	44	36	29	29	53	42	34	28	38	31	26	34	29	24	31	26	22	20
6	51	39	31	25	25	48	37	29	24	34	27	22	30	25	21	27	23	19	17
7	47	35	27	21	21	44	33	26	20	30	24	19	27	22	18	25	20	16	14
8	43	31	23	18	18	41	30	22	17	27	21	16	24	19	15	22	17	14	12
9	40	28	20	15	15	38	26	19	15	24	18	14	22	16	13	20	15	12	10
10	37	25	18	13	13	35	24	17	13	22	16	12	20	15	11	18	13	10	8

LUMINOUS DIAMETER: 7.500
HEIGHT OF SIDE: 3.500

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE
0	11577.
45	17907.
55	17249.
65	16687.
75	17702.
85	19717.



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CANDELA DISTRIBUTION

Table with 2 columns: Candela value and corresponding distribution value. Values range from 0 to 180 Candela.

ZONAL LUMEN SUMMARY

Table with 2 columns: Zonal range and corresponding lumen summary value. Ranges from 0-5 to 175-180.

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.