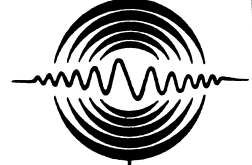


# BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC.

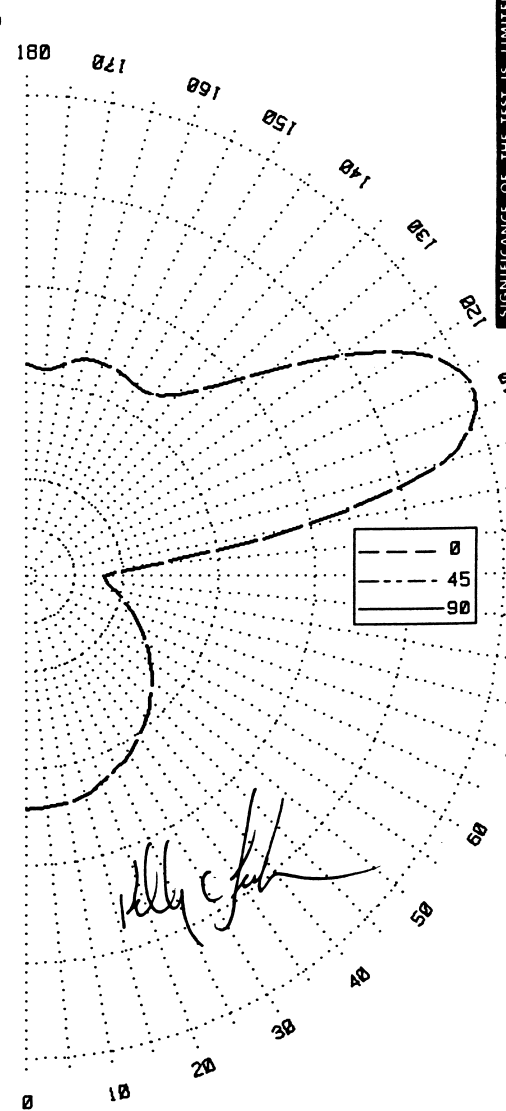
1618 HEADLAND DR.  
 FENTON, MO 63026  
 (636) - 343-6006  
 (636) - 343-6051 FAX



BALLABS CERTIFIED TEST REPORT NO.: 8424.0 DATE 08/29/95  
 PREPARED FOR: GROSS CHANDELIER COMPANY - ST. LOUIS, MISSOURI  
 DESCRIPTION: 1/250W CTD ED28 LAMP 18"DIA DIR/INDIRECT LUMINAIRE  
 CLR/FROSTED/LENS w/WHITE REFLECTOR  
 WHITE ACRYLIC BOWL w/OPEN TOP  
 CATALOG NBR: \*\*\*  
 LAMP TYPE : M58PH-250 LUMENS 22000. NBR. LAMPS:- 1

## CANDLEPOWER DISTRIBUTION

VERT ANG	AVERAGE CANDELA	ZONAL LUMENS
0	1060.	100.4
5	1052.	292.0
10	1045.	448.6
15	1030.	562.2
20	1000.	621.7
25	969.	621.1
30	940.	573.2
35	895.	496.2
40	855.	405.9
45	803.	639.1
50	754.	2087.1
55	692.	2176.6
60	638.	1569.8
65	578.	950.0
70	524.	633.1
75	469.	473.7
80	417.	290.3
85	372.	90.1
90	354.	
95	586.	
100	1242.	
105	1973.	
110	2196.	
115	2193.	
120	2031.	
125	1750.	
130	1457.	
135	1227.	
140	1082.	
145	1008.	
150	998.	
155	1024.	
160	1027.	
165	1024.	
170	980.	
175	944.	
180	968.	



## LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	841.	3.8	6.5	90-120	4903.	22.3	37.6
0- 40	1403.	6.4	10.8	90-130	6473.	29.4	49.7
0- 60	2646.	12.0	20.3	90-150	8056.	36.6	61.8
0- 90	4121.	18.7	31.6	90-180	8910.	40.5	68.4
TOTAL LUMINAIRE =				0-180	13031.	59.2	100.0

IES SPACING CRITERIA: ADJACENT= 1.3 DIAGONAL= .9

SIGNIFICANCE OF THE TEST IS LIMITED TO THE DEGREE THAT THE TESTED SAMPLE IS REPRESENTATIVE. OTHER FACTORS AFFECT FIELD PERFORMANCE.

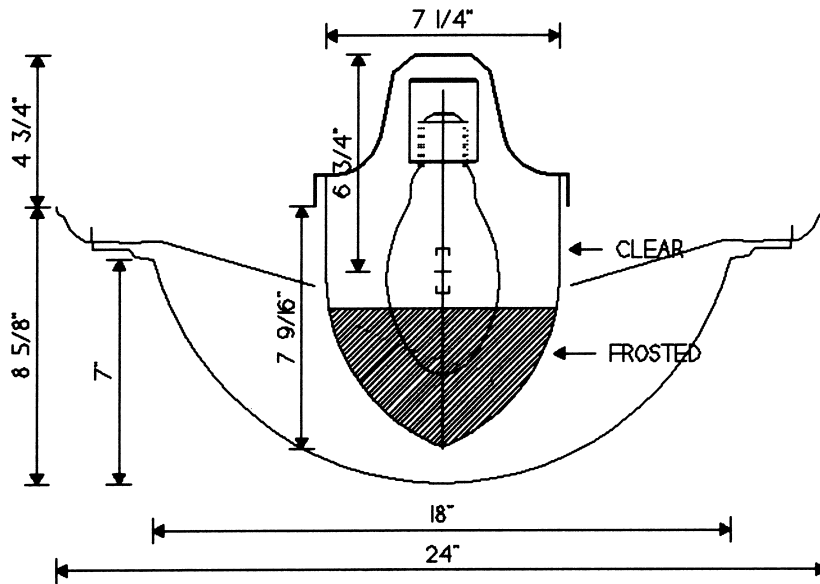
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CATALOG NBR: \*\*\*

LAMP TYPE : M58PH-250

LUMENS 22000.

NBR. LAMPS:- 1



*Kelly C. Hall*

BALLABS CERTIFIED TEST REPORT NO.: 8424.0 DATE 08/29/95  
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 CLR/FROSTED/LENS w/WHITE REFLECTOR  
 WHITE ACRYLIC BOWL w/OPEN TOP

CATALOG NBR: \*\*\*  
 LAMP TYPE : M58PH-250 LUMENS 22000. NBR. LAMPS:- 1

ZONAL CAVITY COEFFICIENTS OF UTILIZATION

EFFECTIVE FLOOR CAVITY REFLECTANCE=.20

CEILING	.80		.70		.50		.30		.10		.00							
WALL	.70	.50	.30	.10	.70	.50	.30	.10	.50	.30	.10	.50	.30	.10	.50	.30	.10	.00
RCR																		
0	.61	.61	.61	.61	.55	.55	.55	.55	.43	.43	.43	.33	.33	.33	.23	.23	.23	.19
1	.55	.52	.49	.47	.49	.47	.45	.43	.37	.35	.34	.28	.27	.26	.20	.19	.18	.14
2	.50	.45	.41	.38	.44	.40	.37	.34	.32	.30	.28	.24	.22	.21	.17	.16	.15	.12
3	.45	.39	.35	.31	.40	.35	.32	.28	.28	.25	.23	.21	.19	.18	.15	.14	.12	.10
4	.41	.35	.30	.26	.37	.31	.27	.24	.25	.22	.19	.19	.17	.15	.13	.12	.11	.08
5	.38	.31	.26	.22	.33	.28	.23	.20	.22	.19	.16	.16	.14	.13	.11	.10	.09	.07
6	.34	.27	.23	.19	.31	.25	.20	.17	.20	.16	.14	.15	.13	.11	.10	.09	.08	.06
7	.32	.25	.20	.17	.28	.22	.18	.15	.18	.15	.12	.13	.11	.09	.09	.08	.07	.05
8	.29	.22	.18	.15	.26	.20	.16	.13	.16	.13	.11	.12	.10	.08	.08	.07	.06	.04
9	.27	.20	.16	.13	.24	.18	.14	.12	.14	.11	.09	.11	.09	.07	.08	.06	.05	.04
10	.25	.18	.14	.11	.23	.17	.13	.10	.13	.10	.08	.10	.08	.06	.07	.05	.04	.03

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES